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Fluent in Lighting



Proud to be British

Hacel Lighting has an established heritage and brand philosophy founded on quality service and innovative luminaires alongside a deserved reputation for flexibility and availability of which we are extremely proud. All Hacel products are designed and manufactured in our purpose built facility in the UK and still encompass the core values, which have been instilled in our business from the onset.

We have a clear, articulated and strategic focus, combined with a team of dedicated people. The people at the core of our business are what remains the major factor in our growth, development and strength. Our ongoing product design and development process underpins Hacel's commitment to innovation.

Our expertise ensures products meet the demands of their applications and surroundings. We integrate the latest technology with imaginative and intelligent lighting schemes designed with environmental awareness, whilst considering the well-being and sensory perceptions essential to working or recreational surroundings. By working closely with Clients, Consultants, Specifiers, Architects, Electrical Contractors and our Distributors; Hacel is strategically positioned to offer exciting new luminaires and bespoke solutions to support current and future market requirements.

Together Everyone Achieves More

In-House Departments

PRODUCT DESIGN

Imaginative *Distinctive* Innovative Class Leading

SALES

Professional **Experienced** *Knowledgeable* Dedicated

MARKETING

Informative Dynamic **Current** Creative

CUSTOMER SERVICE

Proactive Sincere Responsive Honest

MANUFACTURING

British **Efficient** *Respected* Quality **Precise**

LIGHTING DESIGN

Creative *Bespoke* **Intelligent** Cost **Effective** *Beneficial*





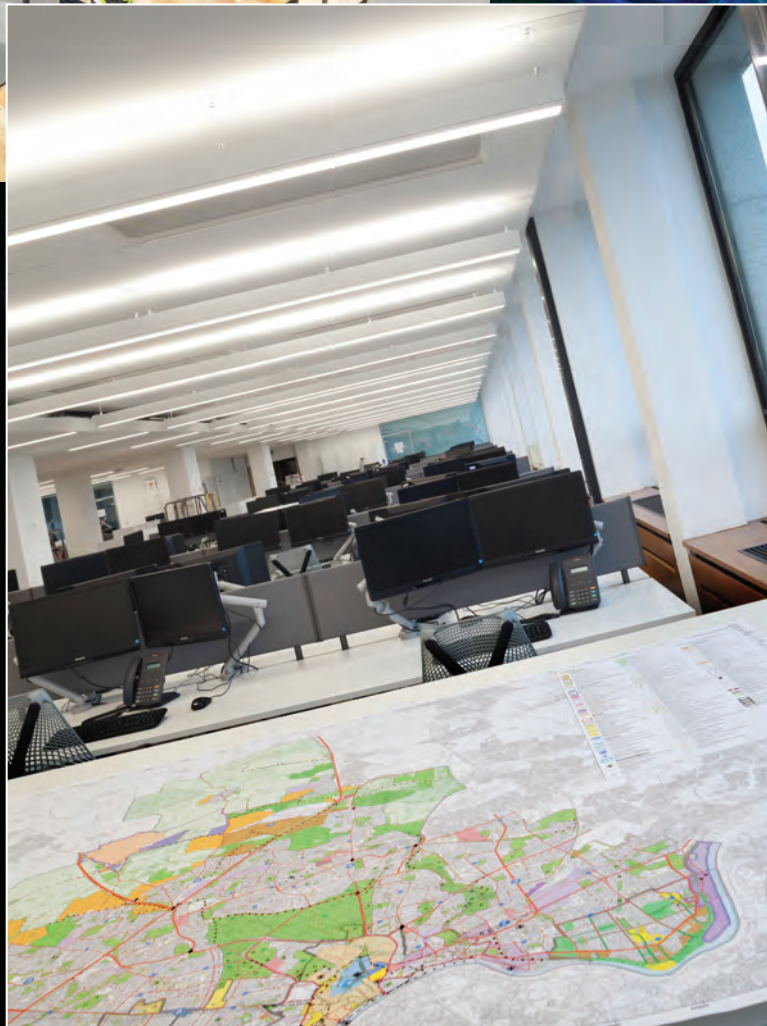
*“Design is central to our philosophy;
Hacel is not simply a manufacturer with a
design capability. We are a design-led
company with a major manufacturing facility”*

*David Cockburn
Managing Director*



Retail

Commercial



Key Market Sectors

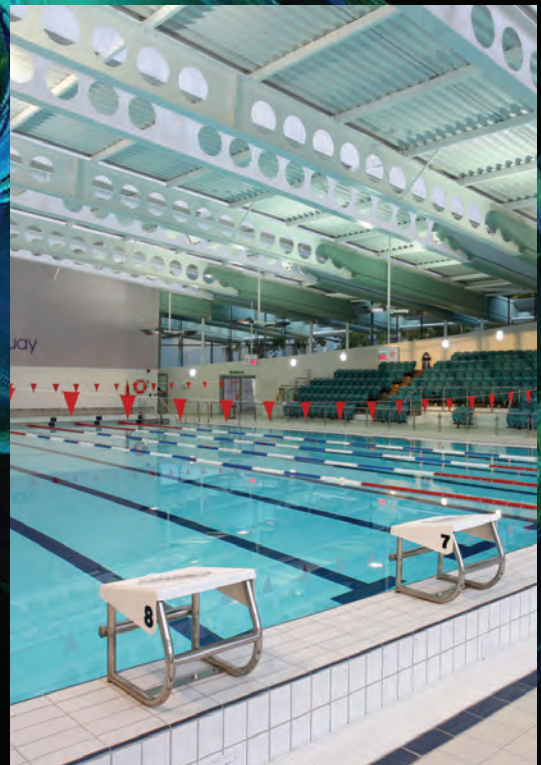
Education



Healthcare



Sport and Leisure



Understanding LED Technology

LED Quality

The new and innovative range of Hacer LED luminaires featured in this catalogue are purpose designed and engineered to the highest possible standards to ensure lumen performance, thermal management and longevity of the LED Light Engine is maintained. The majority of luminaires in this catalogue are available in 3000K and 4000K colour temperatures. Certain luminaires can be manufactured in 5000K, for more information, contact sales@hacer.co.uk. We design our products with class leading technology and utilise high quality LED devices such as Tridonic, which offer significant advantages including reliability, reduced energy consumption and improved maintenance schedules.

As part of our product development, Hacer Lighting Ltd has entered into a patent licensing agreement under the Philips LED Luminaire Licensing Program.

Zhaga

A selection of Hacer LED products feature LED Light Engines by Tridonic, which are Zhaga compliant. The Zhaga Consortium is developing specifications to enable the interchangeability of LED Light Engines made by different global manufacturers. The Zhaga specifications, known as Books, describe the interface between LED luminaires and LED Light Engines. Zhaga is an ongoing process and currently categorises the physical dimensions and minimum and maximum Luminous Flux of LED Light Engines. An important point to note is that due to the Manufacturers differences in lumen outputs, operating temperatures and connection points, it cannot be assumed that Zhaga modules are interchangeable.

Life Expectancy/Warranty

Like conventional lighting, the life of an LED is measured in hours. However, lifespan is measured as depreciation to a particular lumen output. This is indicated with an L value and is shown throughout this catalogue, for example L80, which illustrates that after the stated hours of life expectancy, the LED Light Engine will have decreased to 80% of its initial lumen output.

For details of Luminaire Warranty and Terms and Conditions of Sale visit: www.hacer.co.uk

Colour Consistency

Consistent quality of light from an LED Light Engine is essential. The degree of deviation in colour temperature in LED luminaires, known as chromaticity, is measured in MacAdam ellipses. By ranking colour quality, the MacAdam System shows that the higher up the scale, colour differentiation becomes more apparent and clear colour differences can be seen in certain applications. If the chromaticity of the LED falls lower on the scale (for example 3), colour variation is not visible, therefore the MacAdam step is superior to that with a higher value (for example 5). The chromaticity of Hacer LED luminaires is shown on individual product pages within this catalogue.

Colour Rendering Index (CRI)

CRI is a quantitative measure of the ability of a light source to show the colour of displayed objects accurately. CRI is measured on a scale of 1-100. Light sources with a high CRI more accurately show the object's true colour, light sources with a low CRI may distort the colour of some objects.

A selection of Hacer Downlighters and Power Spots offer versatility to accommodate alternative LED Modules for optimising specific lighting applications such as fashion, art and food retailing.

Photometric Performance/Glare Rating

Reflector design software is employed 'in house' to ensure the highest level of photometric performance is achieved during the luminaire's design and development, thus providing the necessary information required to calculate the lighting levels within a scheme. Due to advances in LED technology, product performance is liable to change without prior notice. For the most up to date information, please check our Product PDFs which are available from our website.

Glare Rating (UGR), where shown throughout this catalogue, are based on a 4H 2H room with 0.7, 0.5, 0.2 reflectances.

Advancements in LED Technology

As a result of the rapid pace of development in LED technology, Hacer LED luminaires may be subject to technical performance changes. This ensures our products encompass the most up to date, innovative LED technology available. Our website is regularly updated to reflect the latest technical information for all Hacer LED products.

For current performance data visit: www.hacer.co.uk

Lighting Controls

Compact Energy-Saving **DALI System** Light Sensor Passive Infrared (PIR)
Infrared Receiver Comfort and Productivity Ambient Light Levels Daylight Control
Microwave Detection **Movement** Sensitivity
Remote Controller Presence Detection **Time-out** Control for Energy Efficiency
Manual Dimming **Function** Switches Settings **Design Software** System access
Communications Coverage **Multisensor** **Activation** Default **Intermediate Scene**
Installation Consumption **Operating Conditions** Conformity and Standards **Absence Detection**

Lighting Controls

Our dedicated and experienced Lighting Design Consultants can assist and advise on your lighting control requirements. We always consider the well-being, economic and energy related pre-requisites of the Client and offer enterprising solutions and professional advice regarding:

- Comprehensive benefits of introducing lighting controls
- Energy Reduction Calculations
- Presence/Absence Detection
- Daylight Harvesting
- Scene Selecting
- DALI Lighting Management Systems

Please contact our Lighting Design Department for further information
lightingdesign@hacel.co.uk



Product Range


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Fold out section on back cover to view

All Hacer luminaires can be specified in our standard colours of White, Black and Urban Graphite which are now allocated specific RAL numbers (shown on individual product pages). Corporate colours are available on request.

Further in-depth technical information can be obtained from the Hacer Lighting Website at:

www.hacer.co.uk



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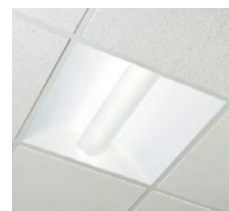
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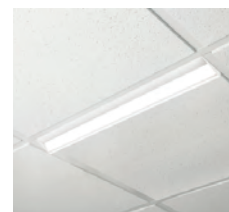
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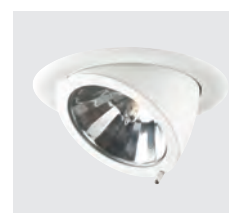
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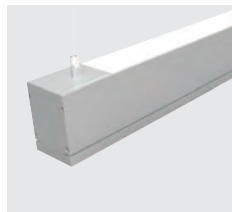


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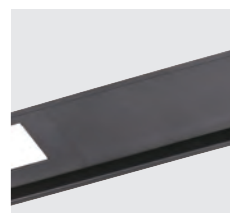
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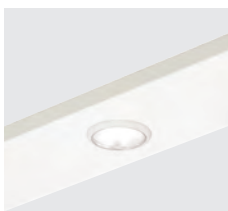
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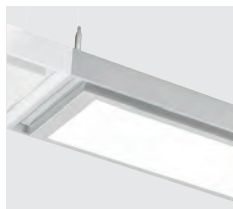
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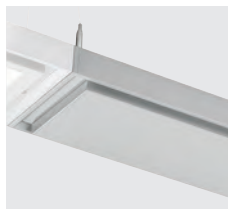
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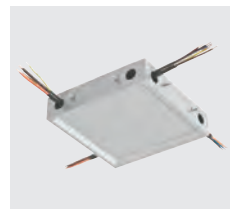
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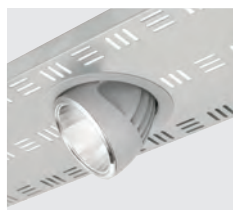
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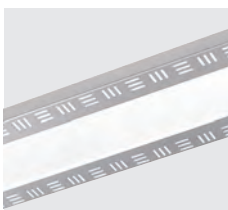
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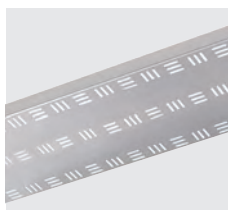
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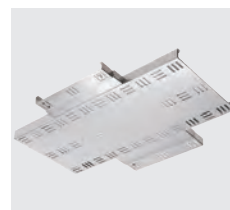
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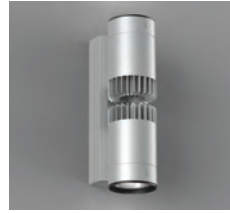
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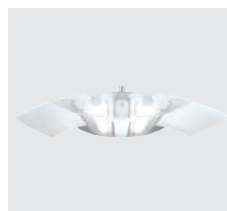
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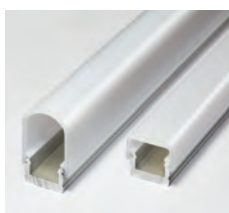
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Modules

Modules

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Modules

A distinctive collection of Grid, Recessed and Wallwasher Modules designed and manufactured to the highest standard, showcasing class-leading credentials to a wide range of environments. The luminaires offer a versatile lighting solution to transform spaces, producing energy efficient illumination, functionality and the promotion of well being.



LG7 in accordance with SLL Code for Lighting 2012

- Zhaga Book 7 LED
- Available in a choice of lumen outputs, delivering up to 4020 lumens
- Efficiencies up to 124 lm/W
- Outstanding performance with an LOR of 0.91
- Luminance limits below 3000cd/m² at the 65° cut off
- Life expectancy in excess of 60,000 hours (L80)
- 3000K and 4000K versions available
- Colour stability within 3 MacAdams
- Suitable for 15mm and 25mm T grid ceilings
- TP(b) rated as standard with TP(a) available on request

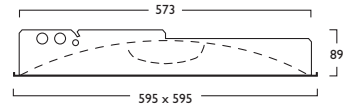
iMod® Grid



LED

| | | | | | | |
|-----|-----|-------|-----|----|---|-----|
| 22W | LED | IM249 | LED | 22 | I | 351 |
| 28W | LED | IM249 | LED | 28 | I | 351 |

| LOR | LED W (Total Power W) |
|----------------|-----------------------|
| 0.91 | 22 (24.0) 28 (30.8) |
| 3000K (CRI 80) | 3200 lm 3910 lm |
| 4000K (CRI 80) | 3290 lm 4020 lm |



230V
50Hz

IP
20

6.0 kg

Designed for 15mm and 25mm T grid ceilings



iMod® Recessed



LED

| | | | | | | |
|-----|-----|-------|-----|----|---|-----|
| 22W | LED | IM248 | LED | 22 | I | 351 |
| 28W | LED | IM248 | LED | 28 | I | 351 |

| LOR | LED W (Total Power W) |
|----------------|-----------------------|
| 0.91 | 22 (24.0) 28 (30.8) |
| 3000K (CRI 80) | 3200 lm 3910 lm |
| 4000K (CRI 80) | 3290 lm 4020 lm |



230V
50Hz

IP
20

580 x 580mm

6.5 kg

Designed for plasterboard type ceilings



Gear types F & G must be operated through a DSI p293

- A** Integral Driver
- E** Emergency
- F** Digital Dim
- G** Digital Dim + Emergency
- J** Switch Dim
- K** Switch Dim + Emergency
- S** DALI Dim
- T** DALI Dim + Emergency
- C** DALI Dim + DALI Emergency

3 Warm (3000K) 4 Neutral (4000K)

I White (RAL 9010)

Interconnection options available contact Sales

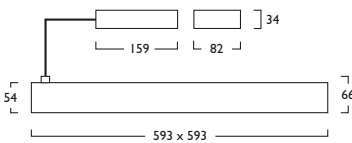
SkyMod Grid



LED

| | | | | | |
|---------|-------|-----|----|---|-----|
| 22W LED | IM297 | LED | 22 | I | 359 |
| 34W LED | IM297 | LED | 34 | I | 359 |
| 46W LED | IM297 | LED | 46 | I | 359 |

| LOR | LED W (Total Power W) | | |
|----------------|-----------------------|-----------|-----------|
| 0.82 | 22 (24.5) | 34 (38.2) | 46 (50.4) |
| 3000K (CRI 80) | 3388 lm | 5130 lm | 6680 lm |
| 4000K (CRI 80) | 3500 lm | 5300 lm | 6920 lm |



230V
50Hz

IP 44

5.8 kg

Designed for 15mm and 25mm T grid ceilings



LG7 in accordance with SLL Code for Lighting 2012*

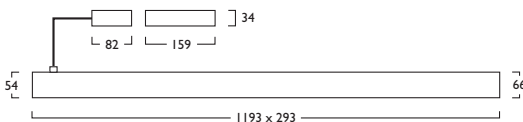
SkyMod Linear Grid



LED

| | | | | | |
|---------|-------|-----|----|---|-----|
| 22W LED | IM247 | LED | 22 | I | 442 |
| 34W LED | IM247 | LED | 34 | I | 442 |
| 46W LED | IM247 | LED | 46 | I | 442 |

| LOR | LED W (Total Power W) | | |
|----------------|-----------------------|-----------|-----------|
| 0.81 | 22 (24.5) | 34 (38.2) | 46 (50.4) |
| 3000K (CRI 80) | 3388 lm | 5130 lm | 6680 lm |
| 4000K (CRI 80) | 3500 lm | 5300 lm | 6920 lm |



230V
50Hz

IP 20

5.0 kg



Gear types F & G must be operated through a DSI p293

- A Integral Driver
 - E Emergency
 - F Digital Dim
 - G Digital Dim + Emergency
 - J Switch Dim
 - K Switch Dim + Emergency
 - S DALI Dim
 - T DALI Dim + Emergency
 - C DALI Dim + DALI Emergency
- 3 Warm (3000K) 4 Neutral (4000K)
- I White (RAL 9010) 2 Urban Graphite (RAL 7046) (IM298) 3 Black (RAL 9005) (IM298)
- Interconnection options available contact Sales

- Features an Opal polycarbonate diffuser with wipe clean surface
- Available in a choice of lumen outputs, delivering up to 6920 lumens
- Efficacies up to 117 lm/W
- 22W version has luminance limits below 3000cd/m² at the 65° cut off *
- Life expectancy in excess of 60,000 hours (L90)
- Colour stability within 3 MacAdams
- Wide choice of high quality control gear
- 5000K versions, please contact sales for further information
- TP(b) rated as standard
- Surface version available see page 271



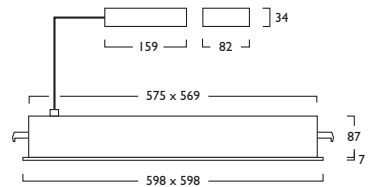
SkyMod Recessed



LED

| | | | | | |
|-----|-----|-------|-----|----|-----|
| 22W | LED | IM298 | LED | 22 | 359 |
| 34W | LED | IM298 | LED | 34 | 359 |
| 46W | LED | IM298 | LED | 46 | 359 |

| LOR | LED W (Total Power W) | | |
|----------------|-----------------------|-----------|-----------|
| 0.82 | 22 (24.5) | 34 (38.2) | 46 (50.4) |
| 3000K (CRI 80) | 3388 lm | 5130 lm | 6680 lm |
| 4000K (CRI 80) | 3500 lm | 5300 lm | 6920 lm |



230V
50Hz

IP 20

580 x 580mm

6.5 kg

Designed for plasterboard type ceilings



SkyMod Linear Grid







iMod® Solo Grid



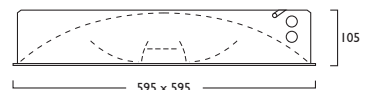
Fluorescent

| | | | | | | | |
|--------|-----|------|-------|--------|---|---|-----|
| 2x 14W | TFL | G5 | IM098 | TFL214 | I | + | 198 |
| 2x 24W | TFL | G5 | IM098 | TFL224 | I | + | 198 |
| 40W | PLL | 2G11 | IM098 | PLL040 | I | + | 199 |
| 55W | PLL | 2G11 | IM098 | PLL055 | I | + | 199 |



LG7 in accordance with SLL Code for Lighting 2012

- Impressive Fluorescent LOR figures - TFL 0.80, PLL 0.74
- Tool free lamp change and refractor cleaning
- Maintains flush ceiling appearance
- Shallow recessing depth
- Engineered for maximum control and performance
- Suitable for 15mm and 25mm T grid ceilings
- Refractor is TP(b) rated



230V
50Hz

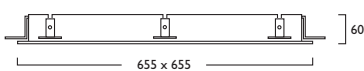
IP
20

6 kg

Recessing Option

Designed for plasterboard type ceilings

093 Recessing bezel white



615 x 615
2.8 kg

Gear types F & G must be operated through a DSI p293

- D** High Frequency
- E** Emergency
- F** Digital Dim
- G** Digital Dim + Emergency
- J** Switch Dim
- K** Switch Dim + Emergency
- S** DALI Dim
- T** DALI Dim + Emergency
- C** DALI Dim + DALI Emergency

I White (RAL 9010)

093 Recessing bezel white

Interconnection options available, contact Sales

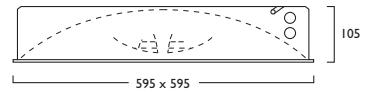


iMod® Duet Grid



Fluorescent

| | | | | | |
|---------------|-------|--------|---|---|-----|
| 2x 14W TFL GS | IM097 | TFL214 | I | + | 197 |
| 2x 24W TFL GS | IM097 | TFL224 | I | + | 197 |



230V
50Hz

IP
20

6 kg



LG7 in accordance with SLL Code for Lighting 2012

- LOR of 0.72
- Clean contemporary appearance with exceptional performance
- Features polycarbonate refractors and mark resistant matt louvres
- Suitable for 15mm and 25mm T grid ceilings
- Shallow recessing depth whilst maintaining a flush appearance
- Tool free lamp change and refractor cleaning
- Refractor material complies with 850° glow wire test

Gear types F & G must be operated through a DSI p293

- D** High Frequency
- E** Emergency
- F** Digital Dim
- G** Digital Dim + Emergency
- J** Switch Dim
- K** Switch Dim + Emergency
- S** DALI Dim
- T** DALI Dim + Emergency
- C** DALI Dim + DALI Emergency

I White (RAL 9010)

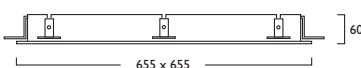
093 Recessing bezel white

Interconnection options available, contact Sales

Recessing Option

Designed for plasterboard type ceilings

093 Recessing bezel white



615 x 615

2.8 kg



Healthcare

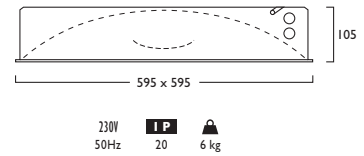


Commercial



iMod® Trim Grid

| | | | | | | | | | | | | | | | |
|--------------------|-----|------|--------------|---|---------------|----------|---|-----|--|---|--|---|--|---|--|
| | | ☀ | | ☹ | | 👁 | | ☐ | | 🔌 | | + | | ⚠ | |
| Fluorescent | | | | | | | | | | | | | | | |
| 40W | PLL | 2G11 | IM023 | — | PLL040 | I | + | 223 | | | | | | | |
| 55W | PLL | 2G11 | IM023 | — | PLL055 | I | + | 223 | | | | | | | |
| 80W | PLL | 2G11 | IM023 | — | PLL080 | I | + | 223 | | | | | | | |



- Class leading photometric performance for Fluorescent light source
- Exceptional LOR of 0.83
- Suitable for 15mm and 25mm T grid ceilings
- Perfect for areas requiring a high level of ambient lighting
- Comprehensive range of branded high frequency gear types available
- Polycarbonate refractor designed for maximum control and performance

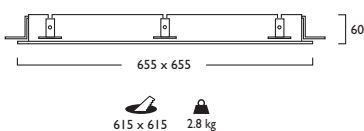
Gear types F & G must be operated through a DSI p293

- D** High Frequency
- E** Emergency
- F** Digital Dim
- G** Digital Dim + Emergency
- J** Switch Dim
- K** Switch Dim + Emergency
- S** DALI Dim
- T** DALI Dim + Emergency
- C** DALI Dim + DALI Emergency

Recessing Option

Designed for plasterboard type ceilings

093 Recessing bezel white



I White (RAL 9010)

093 Recessing bezel white

☐ Interconnection options available, contact Sales



Location

The Cathedral is the mother church of the Diocese. The Bishop has his cathedra – or bishop's seat – here and the Cathedral provides a spiritual centre for the 528 churches to be found in its 1,744 square miles. This makes it one of the largest dioceses in the Church of England serving a population of just under two million. It covers Staffordshire, north Shropshire, Wolverhampton, half of Sandwell and some parishes which straddle the Welsh border.



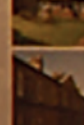
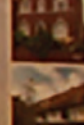
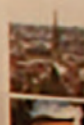
The view from the catwalks shows some of the history of the Cathedral and its surroundings.

To the North

Prince Robert's Wall – Here where the Cathedral was bombarded during the civil war. The outer edge of the fortifications.

The Bishop's Palace which is now the school – built in 1667 by Edward Piers, one of the feet of St Christopher Wren's master.

The Deanery is one of the most elegant buildings in The Cloze. It has an impressive symmetrical seven window range. Built three weeks before the war and was built in 1932.



To the South

Wolverhampton – Part of the city of the diocese. The city of Wolverhampton.

St Mary's Parish Church in Wolverhampton. The church is one of the oldest in the city.

St Mark's Church in Wolverhampton. The church is one of the oldest in the city.

The Old Chapel – one of the oldest in the city. The church is one of the oldest in the city.

St John's Church in Wolverhampton. The church is one of the oldest in the city.

St Peter's Church in Wolverhampton. The church is one of the oldest in the city.

St Paul's Church in Wolverhampton. The church is one of the oldest in the city.

St James' Church in Wolverhampton. The church is one of the oldest in the city.

St George's Church in Wolverhampton. The church is one of the oldest in the city.

St Andrew's Church in Wolverhampton. The church is one of the oldest in the city.

St Basil's Church in Wolverhampton. The church is one of the oldest in the city.

St Nicholas' Church in Wolverhampton. The church is one of the oldest in the city.

To the East

Saint Chad's Church, the one where our nation were baptised converts.

Stoke New has 24 churches and is a very important area of the cathedral.

St Mary's House – A magnificent complex, with medieval tower and fortification walls to the east and south which can still be seen in the walls. Part of the medieval Cloze wall.

Dealey House – The old St George's House built about 1780, across the street at the east end of The Cloze and is now a museum in all views from the east.



To the West

Wolverhampton – Part of the city of the diocese. The city of Wolverhampton.

St Mary's Parish Church in Wolverhampton. The church is one of the oldest in the city.

St Mark's Church in Wolverhampton. The church is one of the oldest in the city.

The Old Chapel – one of the oldest in the city. The church is one of the oldest in the city.

St John's Church in Wolverhampton. The church is one of the oldest in the city.

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St Basil's Church in Wolverhampton. The church is one of the oldest in the city.

St Nicholas' Church in Wolverhampton. The church is one of the oldest in the city.

LICHFIELD

Wallwasher LED

The ultra slim LED Wallwasher, designed and manufactured in the UK by Hacer offers exceptional energy efficiency and longevity. The unique design of this product showcases inconspicuous, streamlined illumination. With a sleek, sculpted design and a Grid recessing depth of only 31 mm, the LED Wallwasher exudes harmonious, uniform lighting intrinsic with wall display illumination.

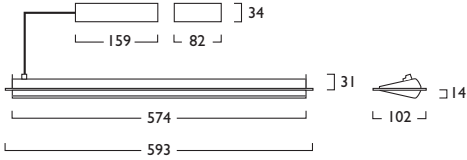
Wallwasher Grid



LED

| | | | | | |
|---------|-------|-----|----|---|-----|
| 22W LED | IM290 | LED | 22 | I | 358 |
| 28W LED | IM290 | LED | 28 | I | 358 |

| LOR | LED W (Total Power W) | |
|----------------|-----------------------|-----------|
| 0.86 | 22 (24.6) | 28 (31.4) |
| 3000K (CRI 80) | 2900 lm | 3560 lm |
| 4000K (CRI 80) | 3240 lm | 3960 lm |



230V
50Hz

IP 20

1.0 kg

Designed for 15mm and 25mm T grid ceilings



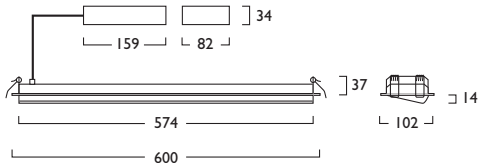
Wallwasher Recessed



LED

| | | | | | |
|---------|-------|-----|----|---|-----|
| 22W LED | IM292 | LED | 22 | I | 358 |
| 28W LED | IM292 | LED | 28 | I | 358 |

| LOR | LED W (Total Power W) | |
|----------------|-----------------------|-----------|
| 0.86 | 22 (24.6) | 28 (31.4) |
| 3000K (CRI 80) | 2900 lm | 3560 lm |
| 4000K (CRI 80) | 3240 lm | 3960 lm |



230V
50Hz

IP 20

585 x 85mm

1.0 kg

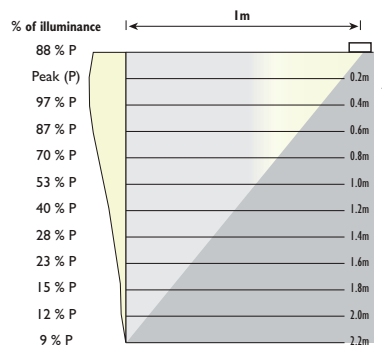
Designed for plasterboard type ceilings



Gear type F must be operated through a DSI p293

- A Integral Driver
 - F Digital Dim
 - J Switch Dim
 - S DALI Dim
- 3 Warm White (3000K) 4 Neutral White (4000K)
- I White (RAL 9010)

Interconnection options available, contact Sales





Wallwasher



- Unique extruded aluminium 'drop down' asymmetric design
- Available in a choice of lumen outputs, delivering up to 3960 lumens
- Efficacies up to 113 lm/W
- Outstanding performance with an LOR of 0.86
- Zhaga Book 7 LED
- Utilises high quality lighting class LED semiconductors
- Delivers illumination directly into the wall and ceiling junction
- Tridonic converters including DALI, Digital and Switch Dim versions
- Grid version has a recessing depth of only 31mm
- Life expectancy in excess of 50,000 hours (L70)

Parsons Tower

Home to business, uniformed public services, health and care faculties, Parsons Tower has undergone an amazing redevelopment, featuring energy efficient luminaires by Hacer.





Hacel[®]
Fluent in Lighting

Downlighters

| | |
|---------------------------------------|----|
| Soledo® | 48 |
| Midi | 53 |
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| Aleda® Micro Adjustable | 61 |
| Aleda® Ported Adjustable | 64 |
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| iBlade Midi Tilt / Mini Tilt | 69 |
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| Ambiere | 83 |
| Opulus, Halo | 85 |
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| Arill Adjustable | 89 |





Soledo[®]

Soledo®

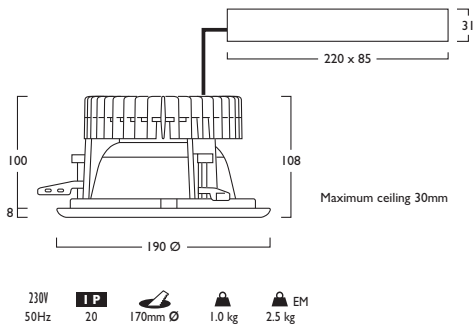


LED

| | | | | | |
|---------|-------|-----|----|---|-----|
| 8W LED | ID244 | LED | 08 | + | 370 |
| 12W LED | ID244 | LED | 12 | + | 370 |
| 17W LED | ID244 | LED | 17 | + | 370 |
| 25W LED | ID244 | LED | 25 | + | 370 |
| 33W LED | ID244 | LED | 33 | + | 435 |

| LOR | LED W (Total Power W) | | | |
|----------------|-----------------------|-----------|-----------|-----------|
| 0.97 | 8 (10.0) | 12 (13.8) | 17 (19.4) | 25 (27.7) |
| 3000K (CRI 80) | 1000 lm | 1300 lm | 1900 lm | 2775 lm |
| 4000K (CRI 80) | 1100 lm | 1400 lm | 2000 lm | 3000 lm |

| LOR | LED W (Total Power W) |
|----------------|-----------------------|
| 0.80 | 33 (36.5) |
| 3000K (CRI 80) | 4972 lm |
| 4000K (CRI 80) | 5098 lm |



- Exceptional engineering and thermal management
- Available in a choice of lumen outputs, delivering up to 5098 lumens
- Efficacies up to 111 lm/W
- UGR <22 (<19 with anti-glare louvre option)
- Life expectancy (up to 25W) in excess of 50,000 hours (L90)
- Life expectancy (33W) in excess of 57,000 hours (L80)
- Colour stability within 3 MacAdams
- Positive clamp fixings for ease of installation
- Wide range of options for customisation
- Soledo® Pendant (page 236) and Surface (page 260) versions available

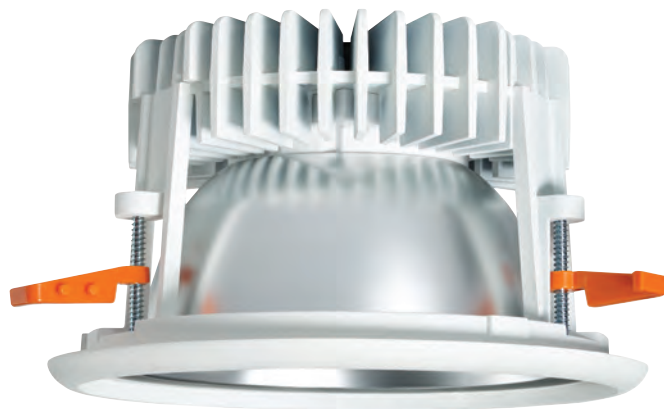
Gear types F & G must be operated through a DSI p293

- A Integral Driver
- E Emergency
- F Digital Dim
- G Digital Dim + Emergency
- J Switch Dim
- K Switch Dim + Emergency
- S DALI Dim
- T DALI Dim + Emergency
- C DALI Dim + DALI Emergency

3 Warm (3000K) 4 Neutral (4000K)

1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

■ Glass, Polycarbonate, Luminescent Halo, Reflector & Emergency Sign Options Shown opposite



■ Glass Options



432 Flush Clear (IP44)
434 Flush Clear + Gasket (IP65)



433 Flush Etched (IP44)
435 Flush Etched + Gasket (IP65)



436 Floating Etched



438 Floating Halo Etched

■ Polycarbonate Options



439 Domed Diffuser



440 Flush Diffuser



441 Impact Resistant Cover (IP44)



443 Sculpted Diffuser



444 Sculpted Diffuser + Neptune Blue Insert



446 Sculpted Diffuser + Acid Green Insert



447 Sculpted Diffuser + Mars Red Insert

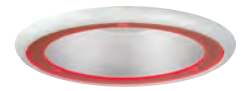
■ Luminescent Halo Options



448 Flush Halo Neptune Blue



450 Flush Halo Acid Green



451 Flush Halo Mars Red



452 Floating Halo Neptune Blue



454 Floating Halo Acid Green



455 Floating Halo Mars Red



442 Cylo Etched Ice



457 Cylo Neptune Blue



459 Cylo Acid Green



460 Cylo Mars Red

■ Reflector Option



246 Anti Glare Louvre (UGR 19) 371
8, 12 & 17W only

■ Emergency Sign Options



527 Emergency - Left/Right
187 x 115 mm



528 Emergency - Down
187 x 115 mm



529 Emergency - Door
187 x 115 mm



530 Emergency - Forward
187 x 115 mm

Midi





Midi



LED CRI 80

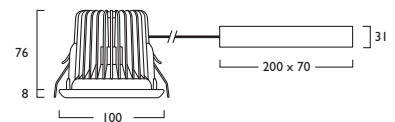
| | | | | | |
|---------|-------|-----|----|---|-----|
| 5W LED | ID285 | LED | 05 | + | 374 |
| 12W LED | ID285 | LED | 12 | + | 374 |
| 17W LED | ID285 | LED | 17 | + | 374 |

| LOR | LED W (Total Power W) | | |
|----------------|-----------------------|-----------|-----------|
| 0.90 | 5 (6.1) | 12 (13.2) | 17 (19.7) |
| 3000K (CRI 80) | 671 lm | 1886 lm | 2611 lm |
| 4000K (CRI 80) | 726 lm | 1978 lm | 2738 lm |

LED CRI 90

| | | | | | |
|---------|-------|-----|----|---|-----|
| 5W LED | ID289 | LED | 05 | + | 385 |
| 12W LED | ID289 | LED | 12 | + | 385 |
| 17W LED | ID289 | LED | 17 | + | 385 |

| LOR | LED W (Total Power W) | | |
|----------------|-----------------------|-----------|-----------|
| 0.90 | 5 (6.1) | 12 (13.2) | 17 (19.7) |
| 3000K (CRI 90) | 570 lm | 1629 lm | 2255 lm |
| 4000K (CRI 90) | 623 lm | 1767 lm | 2446 lm |



230V 50Hz **IP** 20 90mm Ø 0.5 kg 1.4 kg

- Commercial quality, Zhaga Book 3 LED (12W, 17W)
- Available in a choice of lumen outputs, delivering up to 2738 lumens
- Efficacies up to 134 lm/W
- Precision die cast and injection moulded construction
- Superior lighting class LED Modules and Converters
- Life expectancy in excess of 60,000 hours (L80)
- Colour stability within 3 MacAdams
- Choice of options for customisation



Polycarbonate Options



507 Flush Clear
509 Flush Clear + Gasket (IP65)

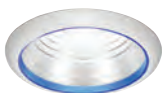


508 Flush Opal
510 Flush Opal + Gasket (IP65)



515 Cylo Etched Ice

Luminescent Halo Options



511 Neptune Blue



512 Mars Red



513 Acid Green



514 Etched Ice

Gear types F & G must be operated through a DSI p293

- A** Integral Driver
- E** Emergency
- F** Digital Dim
- G** Digital Dim + Emergency
- J** Switch Dim
- K** Switch Dim + Emergency
- S** DALI Dim
- T** DALI Dim + Emergency
- C** DALI Dim + DALI Emergency

3 Warm (3000K) 4 Neutral (4000K)

1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

| Reflector | CRI 80 | CRI 90 |
|-----------------|--------|--------|
| 505 Narrow Beam | 375 | 386 |
| 506 Wide Beam | 376 | 387 |

Polycarbonate, Luminescent Halo Options Shown

Aleda®





Aleda® Adjustable



Aleda® Micro Adjustable



Clarks Kids

Clarks Kids



- Quality engineering, smooth and precise pan and tilt adjustment
- Available in a choice of lumen outputs, delivering up to 4861 lumens
- Efficacies up to 121 lm/W
- Single point Zhaga Book 3 LED
- Medium beam reflector as standard, UGR <22
- Life expectancy in excess of 60,000 hours (L80)
- Colour stability within 3 MacAdams
- Emergency versions are locked in the flush positions

Aleda® Adjustable



LED CRI 80

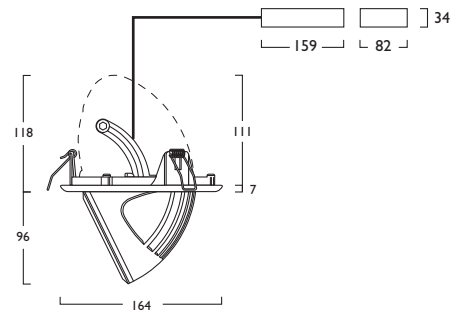
| Wattage | LED | ID398 | LED | 12 | 17 | 24 | 31 | + | 377 |
|---------|-----|-------|-----|----|----|-----|-----|-----|-----|
| 12W | LED | ID398 | LED | 12 | 17 | 24 | 31 | + | 377 |
| 17W | LED | ID398 | LED | 17 | 24 | 31 | + | 377 | |
| 24W | LED | ID398 | LED | 24 | 31 | + | 377 | | |
| 31W | LED | ID398 | LED | 31 | + | 377 | | | |

| LOR | LED W (Total Power W) | | | |
|----------------|-----------------------|-----------|-----------|-----------|
| 0.81 | 12 (13.2) | 17 (19.7) | 24 (26.4) | 31 (35.0) |
| 3000K (CRI 80) | 1886 lm | 2611 lm | 3784 lm | 4741 lm |
| 4000K (CRI 80) | 1978 lm | 2738 lm | 3880 lm | 4861 lm |

LED CRI 90

| Wattage | LED | ID399 | LED | 12 | 17 | 24 | 31 | + | 378 |
|---------|-----|-------|-----|----|----|-----|-----|-----|-----|
| 12W | LED | ID399 | LED | 12 | 17 | 24 | 31 | + | 378 |
| 17W | LED | ID399 | LED | 17 | 24 | 31 | + | 378 | |
| 24W | LED | ID399 | LED | 24 | 31 | + | 378 | | |
| 31W | LED | ID399 | LED | 31 | + | 378 | | | |

| LOR | LED W (Total Power W) | | | |
|----------------|-----------------------|-----------|-----------|-----------|
| 0.81 | 12 (13.2) | 17 (19.7) | 24 (26.4) | 31 (35.0) |
| 3000K (CRI 90) | 1629 lm | 2255 lm | 3236 lm | 4054 lm |
| 4000K (CRI 90) | 1767 lm | 2446 lm | 3447 lm | 4318 lm |



230V 50Hz IP20 64° 350° 150mm Ø 1.0 kg



Gear types F & G must be operated through a DSI p293

- A Integral Driver
- E Emergency
- F Digital Dim
- G Digital Dim + Emergency
- J Switch Dim
- K Switch Dim + Emergency
- S DALI Dim
- T DALI Dim + Emergency
- C DALI Dim + Emergency

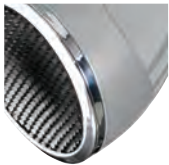
3 Warm (3000K) 4 Neutral (4000K)

I White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

| Reflector | CRI 80 | CRI 90 |
|-----------------|--------|--------|
| 384 Narrow Beam | 379 | 380 |
| 385 Wide Beam | 381 | 382 |

Luminescent Halo, Baffle Options Shown

Baffle Option

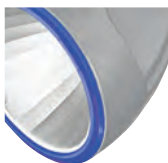


478 Anti Glare Baffle

Luminescent Halo Options



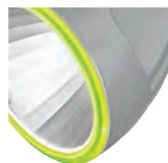
473 Etched Ice



474 Neptune Blue



475 Mars Red



477 Acid Green



Aleda[®] Micro

The minimalistic Aleda[®] Micro combines commercial quality, dynamic design and exceptional engineering. An adjustable downlighter with a smooth and precise pan and tilt, the Aleda[®] Micro is an inspired and distinctive, energy efficient luminaire.





- Commercial quality, smooth and precise pan and tilt adjustment
- Available in a choice of lumen outputs, delivering up to 1048 lumens
- Efficacies up to 109 lm/W
- Single point Zhaga Book 3 LED
- CRI 80 and CRI 90 versions available
- Medium beam reflector as standard
- Life expectancy in excess of 60,000 hours (L80)
- Colour stability within 3 MacAdams



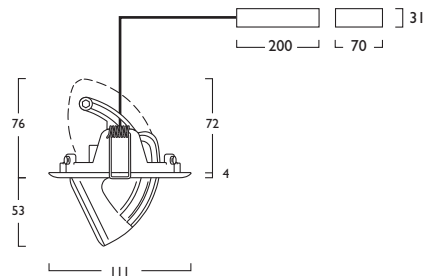
Aleda® Micro Adjustable

LED CRI 80
 7W LED ID475 LED 07 436

| LOR | LED W (Total Power W) |
|----------------|-----------------------|
| 0.88 | 7 (8.4) |
| 3000K (CRI 80) | 998 lm |
| 4000K (CRI 80) | 1048 lm |

LED CRI 90
 7W LED ID476 LED 07 439

| LOR | LED W (Total Power W) |
|----------------|-----------------------|
| 0.88 | 7 (8.4) |
| 3000K (CRI 90) | 801 lm |
| 4000K (CRI 90) | 828 lm |



230V 50Hz IP 20 64° 350° 98mm Ø 0.5 kg



Gear type F must be operated through a DSI p293

- A** Integral Driver
 - F** Digital Dim
 - J** Switch Dim
 - S** DALI Dim
- 3** Warm (3000K) **4** Neutral (4000K)
- 1** White (RAL 9010) **2** Urban Graphite (RAL 7046) **3** Black (RAL 9005)
- | Reflector | CRI 80 | CRI 90 |
|------------------------|--------|--------|
| 531 Narrow Beam | 437 | 440 |
| 532 Wide Beam | 438 | 441 |



Aleda[®] Ported

The exclusive range of Aleda[®] Ported Downlighters offer maximum versatility to a host of lighting scenarios. With a refined and discreet semi recessed port, the distinctive luminaires are aesthetically designed with the inclusion of dynamic Aleda[®] downlighters, offering excellent pan and tilt adjustment, further enhancing the products outstanding appeal.



Solo, Duet and Trio

Aleda® Ported Adjustable



LED CRI 80

| | | | | | | | |
|--------|-----|------|-------|-----|----|---|-----|
| 12W | LED | Solo | AF398 | LED | 12 | + | 377 |
| 17W | LED | Solo | AF398 | LED | 17 | + | 377 |
| 24W | LED | Solo | AF398 | LED | 24 | + | 377 |
| 31W | LED | Solo | AF398 | LED | 31 | + | 377 |
| 2x 12W | LED | Duet | BF398 | LED | 12 | + | 377 |
| 2x 17W | LED | Duet | BF398 | LED | 17 | + | 377 |
| 2x 24W | LED | Duet | BF398 | LED | 24 | + | 377 |
| 2x 31W | LED | Duet | BF398 | LED | 31 | + | 377 |
| 3x 12W | LED | Trio | CF398 | LED | 12 | + | 377 |
| 3x 17W | LED | Trio | CF398 | LED | 17 | + | 377 |
| 3x 24W | LED | Trio | CF398 | LED | 24 | + | 377 |
| 3x 31W | LED | Trio | CF398 | LED | 31 | + | 377 |



| LOR | LED W (Total Power W) | | | |
|----------------|-----------------------|-----------|-----------|-----------|
| 0.81 | 12 (13.2) | 17 (19.7) | 24 (26.4) | 31 (35.0) |
| 3000K (CRI 80) | 1886 lm | 2611 lm | 3784 lm | 4741 lm |
| 4000K (CRI 80) | 1978 lm | 2738 lm | 3880 lm | 4861 lm |

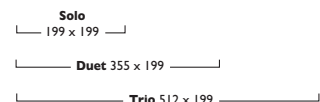
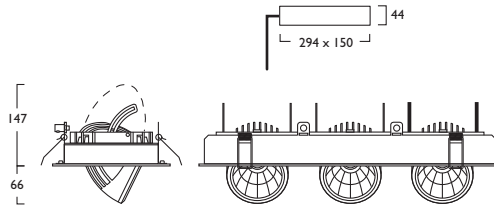
Table applies to one LED Light Engine

LED CRI 90

| | | | | | | | |
|--------|-----|------|-------|-----|----|---|-----|
| 12W | LED | Solo | AF399 | LED | 12 | + | 378 |
| 17W | LED | Solo | AF399 | LED | 17 | + | 378 |
| 24W | LED | Solo | AF399 | LED | 24 | + | 378 |
| 31W | LED | Solo | AF399 | LED | 31 | + | 378 |
| 2x 12W | LED | Duet | BF399 | LED | 12 | + | 378 |
| 2x 17W | LED | Duet | BF399 | LED | 17 | + | 378 |
| 2x 24W | LED | Duet | BF399 | LED | 24 | + | 378 |
| 2x 31W | LED | Duet | BF399 | LED | 31 | + | 378 |
| 3x 12W | LED | Trio | CF399 | LED | 12 | + | 378 |
| 3x 17W | LED | Trio | CF399 | LED | 17 | + | 378 |
| 3x 24W | LED | Trio | CF399 | LED | 24 | + | 378 |
| 3x 31W | LED | Trio | CF399 | LED | 31 | + | 378 |

| LOR | LED W (Total Power W) | | | |
|----------------|-----------------------|-----------|-----------|-----------|
| 0.81 | 12 (13.2) | 17 (19.7) | 24 (26.4) | 31 (35.0) |
| 3000K (CRI 90) | 1629 lm | 2255 lm | 3236 lm | 4054 lm |
| 4000K (CRI 90) | 1767 lm | 2446 lm | 3447 lm | 4318 lm |

Table applies to one LED Light Engine



| | | | | | |
|--------------|----------|-------------|-------------------|---------------------|---------------------|
| 230V 50Hz | IP 20 | 64° 350° | Solo 184x184mm | Duet 341 x 184mm | Trio 498 x 184mm |
| | | | 1.2 kg | 2.5 kg | 3.9 kg |

Gear type F must be operated through a DSI p293

- A** Integral Driver
- F** Digital Dim
- J** Switch Dim
- S** DALI Dim

- 3** Warm (3000K) **4** Neutral (4000K)
- I** White (RAL 9010) **2** Urban Graphite (RAL 7046) **3** Black (RAL 9005)

| Reflector | CRI 80 | CRI 90 |
|--------------------|--------|--------|
| 384 1x Narrow Beam | 379 | 380 |
| 385 1x Wide Beam | 381 | 382 |
| 480 2x Narrow Beam | 379 | 380 |
| 481 2x Wide Beam | 381 | 382 |
| 482 3x Narrow Beam | 379 | 380 |
| 483 3x Wide Beam | 381 | 382 |

Luminescent Halo, Baffle Options Shown on Aleda Adjustable page 57

- LED multi head styling neatly integrated into semi recessed design
- Single point Zhaga Book 3 LED
- Choice of lumen outputs, delivering up to 4861 lumens per Aleda® head
- Efficacies up to 121 lm/W
- CRI 80 and CRI 90 versions available, colour stability within 3 MacAdams
- Life expectancy in excess of 60,000 hours (L80)
- White, Black, Urban Graphite Bezel colour options.
- Inner recess and Aleda® luminaire(s) finished in Black (colour options available on request)

Aleda® Micro Ported Adjustable

☀️ 👁️ ◻️ [K] 🗨️ + ▲

LED CRI 80

| | | | | | | | |
|-------|-----|------|-------|-----|----|---|-----|
| 7W | LED | Solo | AF475 | LED | 07 | + | 436 |
| 2x 7W | LED | Duet | BF475 | LED | 07 | + | 436 |
| 3x 7W | LED | Trio | CF475 | LED | 07 | + | 436 |

| LOR | LED W (Total Power W) |
|----------------|-----------------------|
| 0.88 | 7 (8.4) |
| 3000K (CRI 80) | 998 lm |
| 4000K (CRI 80) | 1048 lm |

Table applies to one LED Light Engine



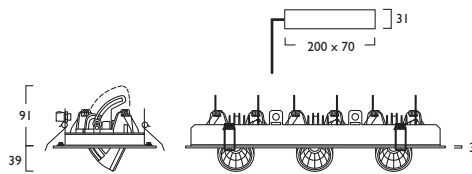
☀️ 👁️ ◻️ [K] 🗨️ + ▲

LED CRI 90

| | | | | | | | |
|-------|-----|------|-------|-----|----|---|-----|
| 7W | LED | Solo | AF476 | LED | 07 | + | 439 |
| 2x 7W | LED | Duet | BF476 | LED | 07 | + | 439 |
| 3x 7W | LED | Trio | CF476 | LED | 07 | + | 439 |

| LOR | LED W (Total Power W) |
|----------------|-----------------------|
| 0.88 | 7 (8.4) |
| 3000K (CRI 90) | 801 lm |
| 4000K (CRI 90) | 828 lm |

Table applies to one LED Light Engine



Solo
159 x 159

Duet 280 x 159

Trio 402 x 159

230V 50Hz **IP** 20 64° 350°

Solo 148 x 148mm 0.8 kg
Duet 269 x 148mm 1.4 kg
Trio 391 x 148mm 2.0 kg

Narrow 17° Medium 26° Wide 39°

Standard

- Commercial quality, smooth and precise pan and tilt adjustment
- Choice of lumen outputs, delivering up to 1048 lumens per Aleda® Micro head
- Single point Zhaga Book 3 LED, efficacies up to of 109 lm/W
- CRI 80 and CRI 90 versions available, colour stability within 3 MacAdams
- Medium beam reflector as standard
- Life expectancy in excess of 60,000 hours (L80)
- White, Black, Urban Graphite Bezel colour options.
- Inner recess and Aleda® Micro luminaire(s) finished in Black (colour options available on request)

Gear type F must be operated through a DSI p293

- A** Integral Driver
- F** Digital Dim
- J** Switch Dim
- S** DALI Dim
- 3** Warm (3000K) **4** Neutral (4000K)
- 1** White (RAL 9010) **2** Urban Graphite (RAL 7046) **3** Black (RAL 9005)

| Reflector | CRI 80 | CRI 90 |
|---------------------------|--------|--------|
| 531 1x Narrow Beam | 437 | 440 |
| 532 1x Wide Beam | 438 | 441 |
| 533 2x Narrow Beam | 437 | 440 |
| 534 2x Wide Beam | 438 | 441 |
| 535 3x Narrow Beam | 437 | 440 |
| 536 3x Wide Beam | 438 | 441 |



iBlade Tilt

The stylish, engineered iBlade luminaire with adjustable tilt, combines a contemporary cutting edge, sleek design with excellent performance. The iBlade, available in both Midi and Mini dimensions, feature a floating blade which has the option to lock at 90°, and is perfectly suited to a wide range of display illumination scenarios.





- Zhaga Book 7 LED
- Available in a choice of lumen outputs, delivering up to 3090 lumens (Midi) and 840 lumens (Mini)
- Efficacies up to 89 lm/W (Midi) and 80 lm/W (Mini)
- Contemporary cutting edge sleek design
- Luminaire designed with a Floating Blade feature
- Can tilt 44° each side from the centre line
- Fully enclosed luminaire with tilt adjustment and option to lock Blade at 90°
- White, Black, Urban Graphite Bezel colour options. Feature Blade is always finished in Black

iBlade Midi Tilt

LED CRI 80

23W LED ID362 LED 23 420

LED CRI 90

23W LED ID363 LED 23 421

| LOR | LED W (Total Power W) |
|----------------|-----------------------|
| 0.74 | 23 (25.5) |
| 3000K (CRI 80) | 3000 lm |
| 4000K (CRI 80) | 3090 lm |
| 3000K (CRI 90) | 2460 lm |
| 4000K (CRI 90) | 2560 lm |



iBlade Mini Tilt

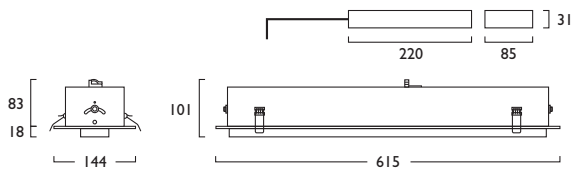
LED CRI 80

6W LED ID241 LED 06 418

LED CRI 90

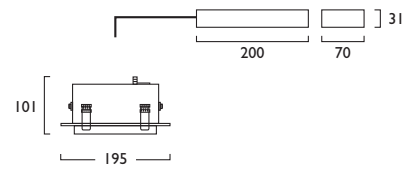
6W LED ID242 LED 06 419

| LOR | LED W (Total Power W) |
|----------------|-----------------------|
| 0.71 | 6 (7.4) |
| 3000K (CRI 80) | 820 lm |
| 4000K (CRI 80) | 840 lm |
| 3000K (CRI 90) | 670 lm |
| 4000K (CRI 90) | 700 lm |



230V 50Hz IP 20 2x 44° 599 x 132mm 3.0 kg

iBlade Midi Tilt



230V 50Hz IP 20 2x 44° 179 x 132mm 1.2 kg

iBlade Mini Tilt

- A Integral Driver
- F Digital Dim
- J Switch Dim
- S DALI Dim

3 Warm (3000K) 4 Neutral (4000K)

1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)





Minoso

LED
 7W LED GU10 ID090 **A** LED **07**

230V 50Hz **IP** 20 73mm Ø 0.3 kg



Minoso Aqua

LED
 7W LED GU10 ID166 **A** LED **07**

230V 50Hz **IP** 65 73mm Ø 0.3 kg

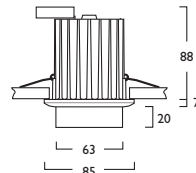


Minoso Cylo

LED
 7W LED GU10 ID165 **A** LED **07**

230V 50Hz **IP** 20 73mm Ø 0.3 kg

| LOR | LED W (Total Power W) |
|-----------------------|-----------------------|
| 1.0 | 7 (7.0) |
| 2800K (CRI 80) | 550 lm |
| 4000K (CRI 80) | 550 lm |



- Precision die cast design for maximum performance and reliability
- Delivering a lumen output of up to 550 lumens
- Efficacies up to 78 lm/W
- Minoso Aqua IP65 rated for internal use
- Decorative etched polycarbonate feature on Minoso Cylo
- Complete with branded dimmable LED lamp (replaceable)
- Life expectancy in excess of 50,000 hours (L70)
- Dimmable with most leading edge dimmers

A No Control Gear 230V
3 Warm (2800K) **4** Neutral (4000K)
1 White (RAL 9010) **2** Urban Graphite (RAL 7046) **3** Black (RAL 9005)
4 Chrome



JAEGER-LECOULTRE

Ballon Bleu de Cartier

Berry's

Cartier

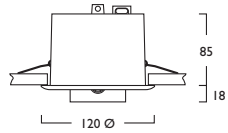


Asara Adjustable



LED
7W LED GU10 ID091 A LED 07

| LOR | LED W (Total Power W) |
|----------------|-----------------------|
| 1.0 | 7 (7.0) |
| 2800K (CRI 80) | 550 lm |
| 4000K (CRI 80) | 550 lm |



230V
50Hz

IP 20

39°

157°

112mm Ø

0.5 kg



- Designed to ensure energy efficiency and performance
- Delivering a lumen output of up to 550 lumens
- Efficacies up to 78 lm/W
- Fully enclosed construction with excellent pan and tilt
- Life expectancy in excess of 50,000 hours (L70)
- Complete with branded dimmable LED lamp (replaceable)
- Dimmable with most leading edge dimmers

■ A No Control Gear 230V

■ 3 Warm (2800K) 4 Neutral (4000K)

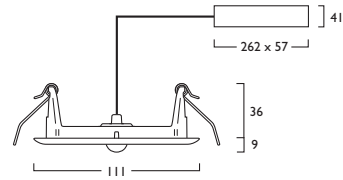
■ 1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

Emy 245

LED
IW LED ID245 LED001 368

| LOR | LED W (Total Power W) |
|----------------|-----------------------|
| 1.00 | 1 (1.3) |
| 6500K (CRI 70) | 110 lm |

Elongated distribution for escape route and corridor lighting applications



230V 50Hz IP20 98mm Ø 0.7 kg

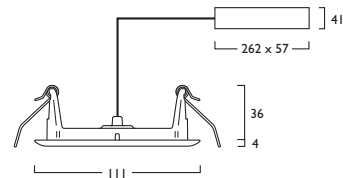


Emy 246

LED
IW LED ID246 LED001 369

| LOR | LED W (Total Power W) |
|----------------|-----------------------|
| 1.0 | 1 (1.3) |
| 6500K (CRI 70) | 122 lm |

Wide beam distribution for general emergency lighting applications



230V 50Hz IP20 98mm Ø 0.7 kg



Emergency



- Stand alone three hour rated Emergency LED
- Delivering a lumen output of up to 110 lumens (Emy 245) and 122 lumens (Emy 246)
- Efficacies up to 110 lm/W (Emy 245) and 122 lm/W (Emy 246)
- Daylight colour temperature (6500K)
- Complies with EN1838
- White, Black and Graphite colour variations
- Emergency pack can be installed through Emy cut-out

E Emergency
C DALI Emergency
Z Self Test Emergency

1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)



Solos[®] Recessed

Offering cool, contemporary illumination the stylish Solos[®] Recessed range embodies flair and performance. Balancing a high quality injection moulded polycarbonate diffuser with long life LED, it is a luminaire perfect for Retail, Commercial and Architectural projects.

Solos® Recessed



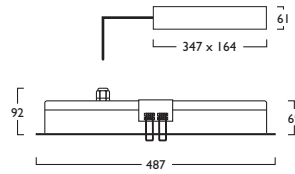
LED

| | | | | | |
|---------|-------|-----|----|---|-----|
| 32W LED | ID161 | LED | 32 | + | 354 |
| 50W LED | ID161 | LED | 50 | + | 354 |

LED & MW

| | | | | | |
|---------|-------|-----|----|---|-----|
| 32W LED | ID169 | LED | 32 | + | 354 |
| 50W LED | ID169 | LED | 50 | + | 354 |

Microwave versions not suitable for use with Gear Types J & K



| LOR | LED W (Total Power W) | |
|----------------|-----------------------|-----------|
| | 32 (35.0) | 50 (54.6) |
| 3000K (CRI 80) | 3438 lm | 4667 lm |
| 4000K (CRI 80) | 3779 lm | 5130 lm |

| | | | |
|--------------|----------|---------|--------|
| 230V 50Hz | IP 20 | 470mm Ø | 3.7 kg |
|--------------|----------|---------|--------|



- High performance LED
- Available in a choice of lumen outputs, delivering up to 5130 lumens
- Efficacies up to 86 lm/W
- 50,000 hour life expectancy (L70)
- Microwave Control is discreetly concealed behind diffuser
- Slim recessing depth of only 69mm
- Centre feature and housing available in White (shown), Black or Urban Graphite
- The Microwave Sensor defaults can be modified with the use of the Hand Held Controller or Programmer (contact our Lighting Design Department for advice)
- Complementary Wall (p211), Surface (p263) and Pendant (p241) versions are available

Solos® Edge Recessed



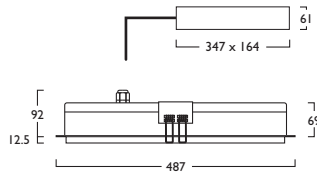
LED

| | | | | | |
|---------|-------|-----|----|---|-----|
| 32W LED | ID469 | LED | 32 | + | 354 |
| 50W LED | ID469 | LED | 50 | + | 354 |

LED & MW

| | | | | | |
|---------|-------|-----|----|---|-----|
| 32W LED | ID470 | LED | 32 | + | 354 |
| 50W LED | ID470 | LED | 50 | + | 354 |

Microwave versions not suitable for use with Gear Types J & K



| LOR | LED W (Total Power W) | |
|----------------|-----------------------|-----------|
| 0.80 | 32 (35.0) | 50 (54.6) |
| 3000K (CRI 80) | 3438 lm | 4667 lm |
| 4000K (CRI 80) | 3779 lm | 5130 lm |



- Solos® Edge features a distinctive exposed detail, which protrudes 12.5mm below the ceiling

Luminescent Edge Options



469 Neptune Blue

470 Mars Red

472 Acid Green

Gear types F & G must be operated through a DSI p293

- A Integral Driver
 - E Emergency
 - F Digital Dim
 - G Digital Dim + Emergency
 - J Switch Dim (ID161, ID469 only)
 - K Switch Dim + Emergency (ID161, ID469 only)
 - S DALI Dim
 - T DALI Dim + Emergency
 - C DALI Dim + DALI Emergency
-
- 3 Warm (3000K) 4 Neutral (4000K)
 - I White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)
- Luminescent Halo Options Shown



Solos[®] Recessed



Ambiere



Ambiere



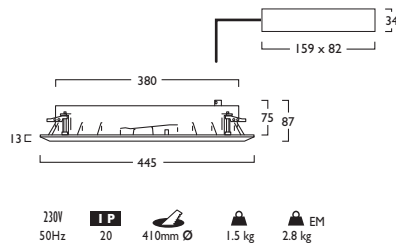
| LED | | LED & MW | |
|---------|-------|----------|-------|
| 18W LED | ID396 | 18W LED | ID397 |
| 29W LED | ID396 | 29W LED | ID397 |
| | | | |
| | | | |

Microwave versions not suitable for use with Gear Types J and K



- High performance, contemporary luminaire with understated presence
- Available in a choice of lumen outputs, delivering up to 4090 lumens
- Efficacies up to 80 lm/W
- Precision injection moulded low profile construction
- High quality Opal polycarbonate diffuser
- Exceptional life expectancy in excess of 50,000 hours (L80)
- Coloured and etched customisation Options
- TP(b) Rated as standard
- The Microwave Sensor defaults can be modified with the use of the Hand Held Controller or Programmer (contact our Lighting Design Department for advice)
- IP44 Rated when used with Gasket Option 250

| LOR | LED W (Total Power W) | |
|----------------|-----------------------|-----------|
| 0.62 | 18 (21.9) | 29 (33.8) |
| 3000K (CRI 80) | 2600 lm | 3750 lm |
| 4000K (CRI 80) | 2840 lm | 4090 lm |



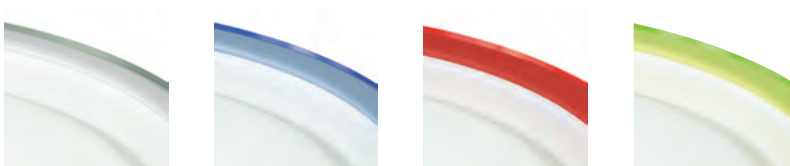
Gear types F & G must be operated through a DSI p293

- A Integral Driver
- E Emergency
- F Digital Dim
- G Digital Dim + Emergency
- J Switch Dim (ID396 only)
- K Switch Dim + Emergency (ID396 only)
- S DALI Dim
- T DALI Dim + Emergency
- C DALI Dim + DALI Emergency

- 3 Warm (3000K) 4 Neutral (4000K)
- I White (RAL 9010)

- 250 Gasket (IP44)
- Glass, Luminescent Halo Options Shown

Glass, Luminescent Halo Options



501 Clear Glass

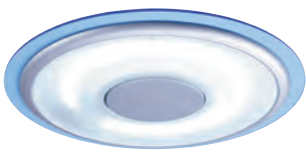
502 Neptune Blue

503 Mars Red

504 Acid Green



■ Luminescent Halo Options



295 Neptune Blue



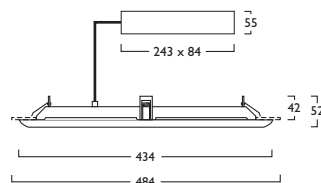
297 Acid Green



298 Mars Red



Luminaires with an inbuilt PIR Detector provide control to improve energy efficiency.



230V
50Hz

IP
20

405mm Ø

3.8 kg

Opulus



Fluorescent

| | | | | | |
|-----|-----|-------|-------|--------|-----|
| 40W | TFL | 2GX13 | ID984 | TFL040 | 176 |
| 55W | TFL | 2GX13 | ID984 | TFL055 | 176 |

Fluorescent & PIR

| | | | | | |
|-----|-----|-------|-------|--------|-----|
| 40W | TFL | 2GX13 | ID985 | TFL040 | 176 |
| 55W | TFL | 2GX13 | ID985 | TFL055 | 176 |

PIR versions only suitable for use with Gear Types F, G



Opulus Halo



Fluorescent

| | | | | | | |
|-----|-----|-------|-------|--------|---|-----|
| 40W | TFL | 2GX13 | ID461 | TFL040 | + | 176 |
| 55W | TFL | 2GX13 | ID461 | TFL055 | + | 176 |

Fluorescent & PIR

| | | | | | | |
|-----|-----|-------|-------|--------|---|-----|
| 40W | TFL | 2GX13 | ID462 | TFL040 | + | 176 |
| 55W | TFL | 2GX13 | ID462 | TFL055 | + | 176 |

PIR versions only suitable for use with Gear Types F, G



- Unique design with vivid Luminescent Halo options
- Subtly etched glass fascia providing excellent ambient lighting
- Slim recessing depth of only 42mm
- Wide choice of high frequency gear types and PIR control
- High quality reflector offers superb performance
- Reliable T5 Fluorescent circular light source
- Opulus Halo features high quality clear glass surround
- Complementary Pendant (page 255) and Surface (page 273) versions available

Gear types F & G must be operated through a DSI p293

- D** High Frequency
- E** Emergency
- F** Digital Dim
- G** Digital Dim + Emergency
- J** Switch Dim
- K** Switch Dim + Emergency
- S** DALI Dim
- T** DALI Dim + Emergency
- C** DALI Dim + DALI Emergency

1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

■ Luminescent Halo Options Shown

Solara Slim



Fluorescent

| | | | | | | |
|--------|-----|---------|-------|--------|---|-----|
| 18W | PLC | G24q-2 | ID943 | PLC018 | + | 126 |
| 26W | PLC | G24q-3 | ID943 | PLC026 | + | 126 |
| 32W | PLT | GX24q-3 | ID943 | PLT032 | + | 126 |
| 42W | PLT | GX24q-4 | ID943 | PLT042 | + | 126 |
| 2x 18W | PLC | G24q-2 | ID943 | PLC218 | + | 032 |
| 2x 26W | PLC | G24q-3 | ID943 | PLC226 | + | 034 |



- Efficient PLC and PLT Fluorescent light sources
- Design combines performance and reliability with speed of installation
- Comprehensive choice of wattages and gear types
- Slim 107mm luminaire
- Lightweight injection moulded polycarbonate body
- Features include in-built cable grips, tool free connections and snap fit cover

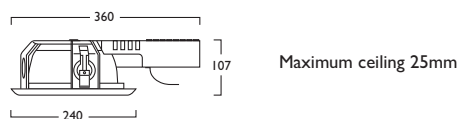


Gear types F & G must be operated through a DSI p293

- D** High Frequency
- E** Emergency
- F** Digital Dim
- G** Digital Dim + Emergency
- J** Switch Dim
- K** Switch Dim + Emergency
- S** DALI Dim
- T** DALI Dim + Emergency
- C** DALI Dim + DALI Emergency

1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

■ Glass, Luminescent Halo, Polycarbonate, Emergency Sign Options Shown



230V 50Hz IP20 210mm Ø 1.0 kg 2.0 kg EM

■ Glass Options



005 Flush Clear (IP44)
009 Flush Clear + Gasket (IP65)



007 Flush Etched (IP44)
011 Flush Etched + Gasket (IP65)



008 Flush Ring (IP44)
012 Flush Ring + Gasket (IP65)



292 Recessed Prismatic

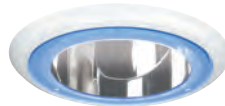


014 Floating Etched Inner



018 Floating Halo Etched

■ Luminescent Halo Options



360 Flush Halo Neptune Blue



362 Flush Halo Acid Green



363 Flush Halo Mars Red



364 Floating Halo Neptune Blue



366 Floating Halo Acid Green



367 Floating Halo Mars Red

■ Polycarbonate Options



293 Impact Resistant Cover - Tamperproof
155 Tamperproof screwdriver (T10)

■ Emergency Sign Options



028 Emergency - Left/Right
230 x 140 mm



029 Emergency - Down
230 x 140 mm



030 Emergency - Door
230 x 140 mm

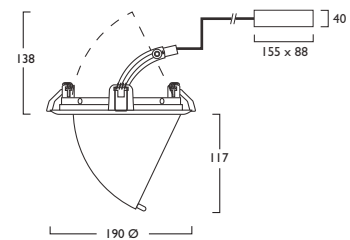


031 Emergency - Forward
230 x 140 mm



Arill Adjustable

| | | | | | | | | | | | | | | | |
|---------------------|-----|------|-------|---|--------|---|---|-----|--|---|--|---|--|---|--|
| | | ☀ | | ☾ | | 👁 | | □ | | 🗨 | | + | | ⚠ | |
| Metal Halide | | | | | | | | | | | | | | | |
| 20W | MHC | G8.5 | ID892 | Q | MHC020 | - | + | 153 | | | | | | | |
| 35W | MHC | G8.5 | ID892 | Q | MHC035 | - | + | 153 | | | | | | | |
| 70W | MHC | G8.5 | ID892 | Q | MHC070 | - | + | 153 | | | | | | | |



230V 50Hz IP 20 60° 356° 177mm Ø 1.4 kg

- High performance Metal Halide luminaire
- Sleek styling with a smooth pan and tilt adjustment
- Excellent lamp and reflector performance with quality electronic ballast
- Choice of narrow, medium (fitted as standard) and wide beam reflectors
- Ideal for retail and accent lighting



| | | | |
|------------------|-----|------------------------------|-----|
| ■ | Q | Electronic Discharge Ballast | ⚠ |
| ■ | 1 | White (RAL 9010) | ■ |
| ■ | 2 | Urban Graphite (RAL 7046) | ■ |
| ■ | 3 | Black (RAL 9005) | ■ |
| Reflector | | | |
| ■ | 283 | Narrow Beam | 152 |
| ■ | 284 | Wide Beam | 154 |

Pulman Skoda

Providing customers with a fantastic, revitalised retail showroom facility, Pulman Skoda's flagship auto dealership hosts a range of inspired LED luminaires by Hacerl.

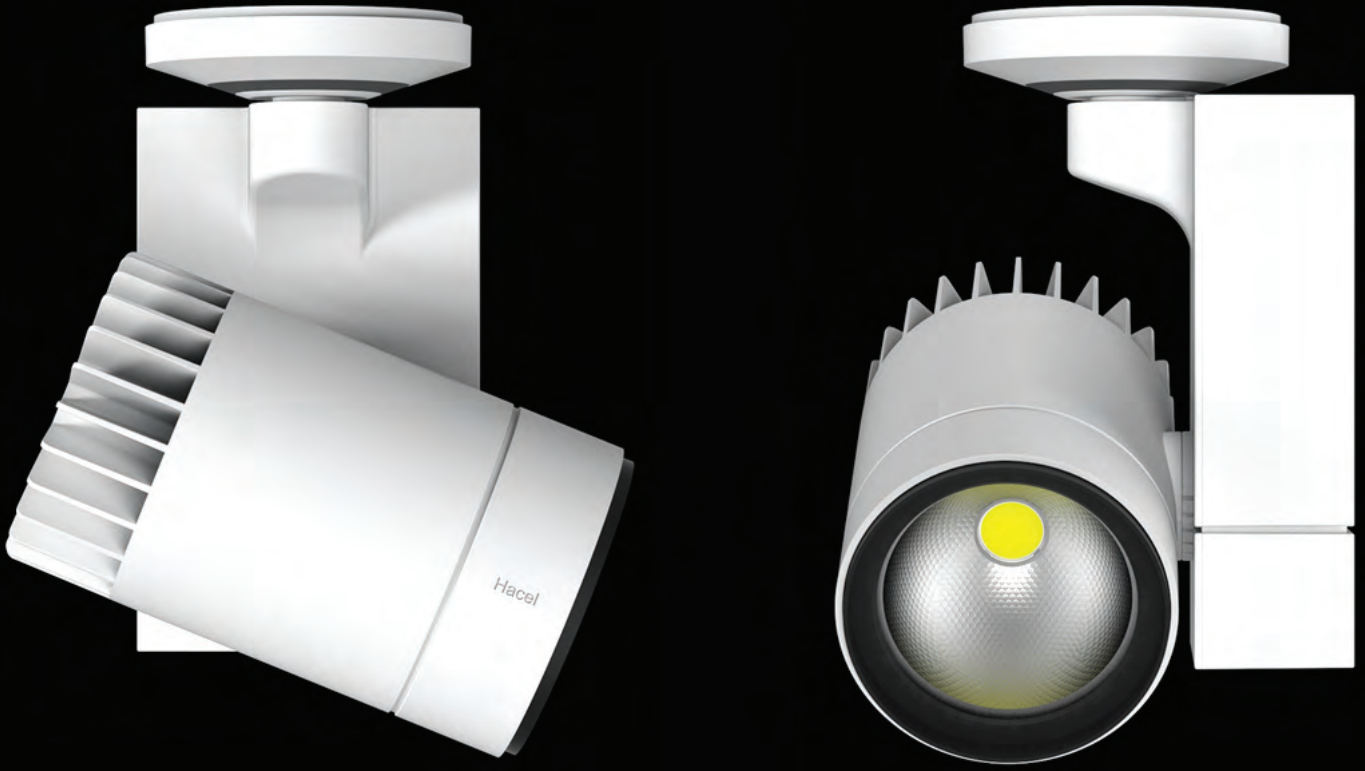
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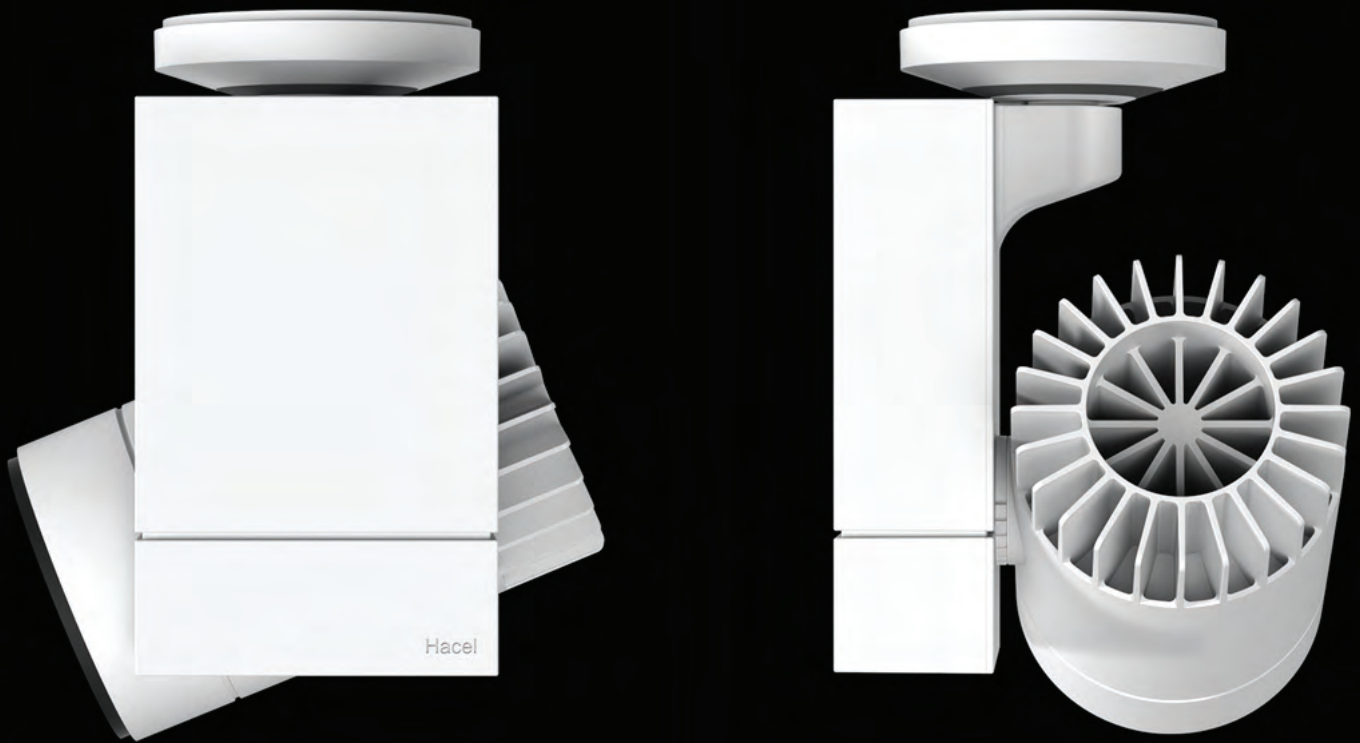


Hacel[®]
Fluent in Lighting

Power Spots / Track

| | |
|-----------------------------|------------|
| Azuma® Maxi | 96 |
| Azuma® Midi | 97 |
| Manta® | 103 |
| Artus® | 106 |
| Asara | 107 |
| Single Circuit Track | 110 |
| Three Circuit Track | 112 |





Azuma[®]

The commanding Azuma[®] range combines a contemporary design and powerful performance with formidable form and functionality. Delivering impressive outputs up to 6010 lumens, the Azuma[®] features state of the art Zhaga single point modules and outstanding colour rendering properties, optimal in retail and spotlighting applications.

Azuma® Maxi



LED CRI 80

Surface

| | | | | | |
|---------|-------|-----|----|---|-----|
| 33W LED | IS473 | LED | 33 | + | 453 |
| 41W LED | IS473 | LED | 41 | + | 453 |

Single Circuit Track

| | | | | | |
|---------|-------|-------|----|---|-----|
| 33W LED | TS473 | A LED | 33 | + | 453 |
| 41W LED | TS473 | A LED | 41 | + | 453 |

Three Circuit Track

| | | | | | |
|---------|-------|-------|----|---|-----|
| 33W LED | TT473 | A LED | 33 | + | 453 |
| 41W LED | TT473 | A LED | 41 | + | 453 |

| LOR | LED W (Total Power W) | |
|----------------|-----------------------|-----------|
| 0.81 | 33 (36.5) | 41 (45.4) |
| 3000K (CRI 80) | 4972 lm | 5862 lm |
| 4000K (CRI 80) | 5098 lm | 6010 lm |



LED CRI 90

Surface

| | | | | | |
|---------|-------|-----|----|---|-----|
| 33W LED | IS474 | LED | 33 | + | 454 |
| 41W LED | IS474 | LED | 41 | + | 454 |

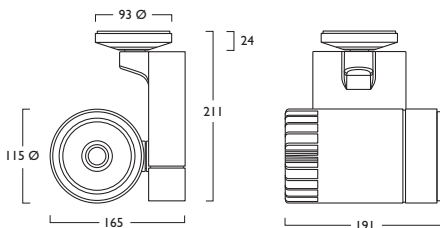
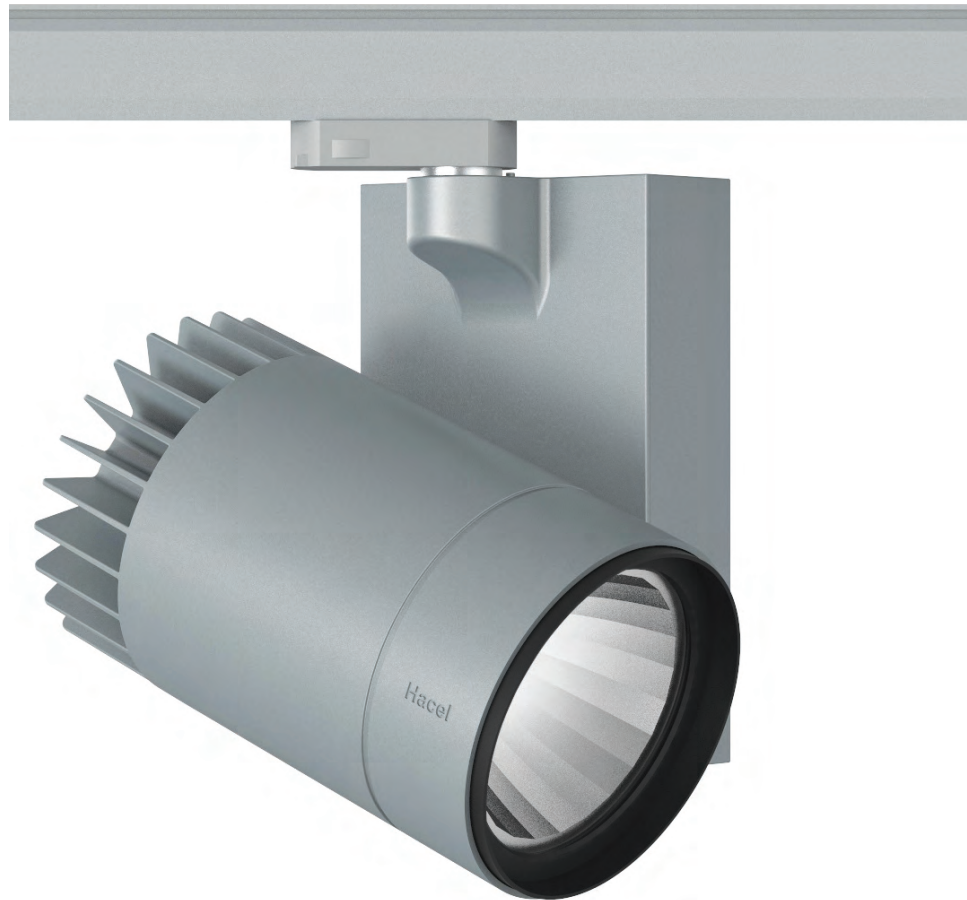
Single Circuit Track

| | | | | | |
|---------|-------|-------|----|---|-----|
| 33W LED | TS474 | A LED | 33 | + | 454 |
| 41W LED | TS474 | A LED | 41 | + | 454 |

Three Circuit Track

| | | | | | |
|---------|-------|-------|----|---|-----|
| 33W LED | TT474 | A LED | 33 | + | 454 |
| 41W LED | TT474 | A LED | 41 | + | 454 |

| LOR | LED W (Total Power W) | |
|----------------|-----------------------|-----------|
| 0.81 | 33 (36.5) | 41 (45.4) |
| 3000K (CRI 90) | 4251 lm | 5012 lm |
| 4000K (CRI 90) | 4528 lm | 5339 lm |



| | | | | | |
|------|----|------|------|------|--------|
| 230V | IP | 180° | 340° | 50mm | 3.0 kg |
| 50Hz | 20 | | | | |

- Available in a choice of lumen outputs, delivering up to 6010 lumens
- Efficacies up to 113 lm/W
- Single point Zhaga Book 3 LED
- Medium beam reflector as standard
- Life expectancy in excess of 52,000 hours (L80)
- Colour stability within 3 MacAdams
- Protective glass fitted as standard
- Complementary Wall Lights (pages 214-215) available

Gear type F must be operated through a DSI p293

- A Integral Driver
- F Digital Dim
- J Switch Dim
- S DALI Dim

3 Warm (3000K) 4 Neutral (4000K)

1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

| Reflector | CRI 80 | CRI 90 |
|-----------------|--------|--------|
| 384 Narrow Beam | 455 | 456 |
| 385 Wide Beam | 457 | 458 |

Baffle Option Shown

Baffle Option



540 Anti Glare Baffle

Narrow 18° Medium 28° Wide 54°



Azuma® Midi



LED CRI 80

Surface

| | | | | | |
|---------|-------|-----|----|---|-----|
| 13W LED | IS477 | LED | 13 | + | 447 |
| 20W LED | IS477 | LED | 20 | + | 447 |
| 28W LED | IS477 | LED | 28 | + | 447 |

Single Circuit Track

| | | | | | |
|---------|-------|-------|----|---|-----|
| 13W LED | TS477 | A LED | 13 | + | 447 |
| 20W LED | TS477 | A LED | 20 | + | 447 |
| 28W LED | TS477 | A LED | 28 | + | 447 |

Three Circuit Track

| | | | | | |
|---------|-------|-------|----|---|-----|
| 13W LED | TT477 | A LED | 13 | + | 447 |
| 20W LED | TT477 | A LED | 20 | + | 447 |
| 28W LED | TT477 | A LED | 28 | + | 447 |

| LOR 0.92 | LED W (Total Power W) | | |
|----------------|-----------------------|-----------|-----------|
| | 13 (15.2) | 20 (23.2) | 28 (31.6) |
| 3000K (CRI 80) | 2132 lm | 3071 lm | 3937 lm |
| 4000K (CRI 80) | 2236 lm | 3221 lm | 4129 lm |



LED CRI 90

Surface

| | | | | | |
|---------|-------|-----|----|---|-----|
| 13W LED | IS478 | LED | 13 | + | 448 |
| 20W LED | IS478 | LED | 20 | + | 448 |
| 28W LED | IS478 | LED | 28 | + | 448 |

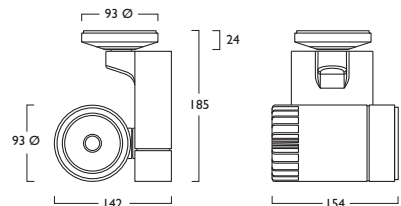
Single Circuit Track

| | | | | | |
|---------|-------|-------|----|---|-----|
| 13W LED | TS478 | A LED | 13 | + | 448 |
| 20W LED | TS478 | A LED | 20 | + | 448 |
| 28W LED | TS478 | A LED | 28 | + | 448 |

Three Circuit Track

| | | | | | |
|---------|-------|-------|----|---|-----|
| 13W LED | TT478 | A LED | 13 | + | 448 |
| 20W LED | TT478 | A LED | 20 | + | 448 |
| 28W LED | TT478 | A LED | 28 | + | 448 |

| LOR 0.92 | LED W (Total Power W) | | |
|----------------|-----------------------|-----------|-----------|
| | 13 (15.2) | 20 (23.2) | 28 (31.6) |
| 3000K (CRI 90) | 1841 lm | 2653 lm | 3400 lm |
| 4000K (CRI 90) | 1998 lm | 2878 lm | 3689 lm |



| | | | | | |
|--------------|----------|------|------|------|--------|
| 230V 50Hz | IP 20 | 180° | 340° | 50mm | 1.6 kg |
|--------------|----------|------|------|------|--------|

Gear type F must be operated through a DSI p293

- A Integral Driver
- F Digital Dim
- J Switch Dim
- S DALI Dim

3 Warm (3000K) 4 Neutral (4000K)

1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

| Reflector | CRI 80 | CRI 90 |
|-----------------|--------|--------|
| 537 Narrow Beam | 449 | 450 |
| 538 Wide Beam | 451 | 452 |

Baffle Option Shown



- Available in a choice of lumen outputs, delivering up to 4129 lumens
- Efficacies up to 135 lm/W
- Single point Zhaga Book 3 LED
- Medium beam reflector as standard
- Life expectancy in excess of 60,000 hours (L80)
- Colour stability within 3 MacAdams
- Protective glass fitted as standard

Baffle Option



539 Anti Glare Baffle







Azuma[®]







- CRI of 80 and 90 available in Standard, Switch and DALI Dim formats
- Available in a choice of lumen outputs, delivering up to 3880 lumens
- Efficacies up to 121 lm/W
- Single point Zhaga Book 3 LED
- Medium beam reflector supplied as standard (narrow and wide beam also available)
- Effective thermal management offers a life expectancy in excess of 60,000 hours (L80)
- Colour stability within 3 MacAdams
- Surface, Single and Three Circuit Track versions available

■ Luminescent Halo, Baffle Options



473 Etched Ice



474 Neptune Blue



475 Mars Red



477 Acid Green



478 Anti Glare Baffle

Manta®



LED CRI 80

Surface

| | | | | | |
|---------|-------|-----|----|---|-----|
| 12W LED | IS283 | LED | 12 | + | 362 |
| 17W LED | IS283 | LED | 17 | + | 362 |
| 24W LED | IS283 | LED | 24 | + | 362 |

Single Circuit Track

| | | | | | |
|---------|-------|-------|----|---|-----|
| 12W LED | TS283 | A LED | 12 | + | 362 |
| 17W LED | TS283 | A LED | 17 | + | 362 |
| 24W LED | TS283 | A LED | 24 | + | 362 |

Three Circuit Track

| | | | | | |
|---------|-------|-------|----|---|-----|
| 12W LED | TT283 | A LED | 12 | + | 362 |
| 17W LED | TT283 | A LED | 17 | + | 362 |
| 24W LED | TT283 | A LED | 24 | + | 362 |

| LOR 0.81 | LED W (Total Power W) | | |
|----------------|-----------------------|-----------|-----------|
| | 12 (13.2) | 17 (19.7) | 24 (26.4) |
| 3000K (CRI 80) | 1886 lm | 2611 lm | 3784 lm |
| 4000K (CRI 80) | 1978 lm | 2738 lm | 3880 lm |



LED CRI 90

Surface

| | | | | | |
|---------|-------|-----|----|---|-----|
| 12W LED | IS294 | LED | 12 | + | 363 |
| 17W LED | IS294 | LED | 17 | + | 363 |
| 24W LED | IS294 | LED | 24 | + | 363 |

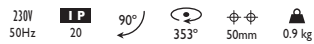
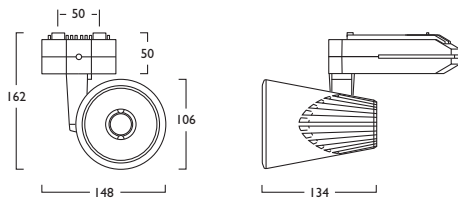
Single Circuit Track

| | | | | | |
|---------|-------|-------|----|---|-----|
| 12W LED | TS294 | A LED | 12 | + | 363 |
| 17W LED | TS294 | A LED | 17 | + | 363 |
| 24W LED | TS294 | A LED | 24 | + | 363 |

Three Circuit Track

| | | | | | |
|---------|-------|-------|----|---|-----|
| 12W LED | TT294 | A LED | 12 | + | 363 |
| 17W LED | TT294 | A LED | 17 | + | 363 |
| 24W LED | TT294 | A LED | 24 | + | 363 |

| LOR 0.81 | LED W (Total Power W) | | |
|----------------|-----------------------|-----------|-----------|
| | 12 (13.2) | 17 (19.7) | 24 (26.4) |
| 3000K (CRI 90) | 1629 lm | 2255 lm | 3236 lm |
| 4000K (CRI 90) | 1767 lm | 2446 lm | 3447 lm |



- A** Integral Driver
 - J** Switch Dim
 - S** DALI Dim
 - 3** Warm (3000K) **4** Neutral (4000K)
 - 1** White (RAL 9010) **2** Urban Graphite (RAL 7046) **3** Black (RAL 9005)
 - 384** Narrow Beam 364 365
 - 385** Wide Beam 366 367
- Luminescent Halo, Baffle Options** Shown opposite

Manta[®]





Artus®



LED CRI 80

Surface

| | | | | | |
|---------|-------|-----|----|---|-----|
| 12W LED | IS017 | LED | 12 | + | 362 |
| 17W LED | IS017 | LED | 17 | + | 362 |
| 24W LED | IS017 | LED | 24 | + | 362 |

Single Circuit Track

| | | | | | |
|---------|-------|-------|----|---|-----|
| 12W LED | TS017 | A LED | 12 | + | 362 |
| 17W LED | TS017 | A LED | 17 | + | 362 |
| 24W LED | TS017 | A LED | 24 | + | 362 |

Three Circuit Track

| | | | | | |
|---------|-------|-------|----|---|-----|
| 12W LED | TT017 | A LED | 12 | + | 362 |
| 17W LED | TT017 | A LED | 17 | + | 362 |
| 24W LED | TT017 | A LED | 24 | + | 362 |

| LOR | LED W (Total Power W) | | | |
|----------------|-----------------------|-----------|-----------|-----------|
| | 0.81 | 12 (13.2) | 17 (19.7) | 24 (26.4) |
| 3000K (CRI 80) | 1886 lm | 2611 lm | 3784 lm | |
| 4000K (CRI 80) | 1978 lm | 2738 lm | 3880 lm | |



LED CRI 90

Surface

| | | | | | |
|---------|-------|-----|----|---|-----|
| 12W LED | IS293 | LED | 12 | + | 363 |
| 17W LED | IS293 | LED | 17 | + | 363 |
| 24W LED | IS293 | LED | 24 | + | 363 |

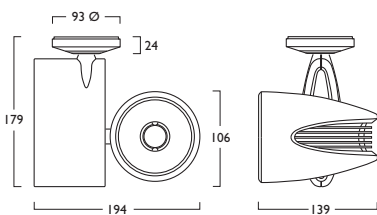
Single Circuit Track

| | | | | | |
|---------|-------|-------|----|---|-----|
| 12W LED | TS293 | A LED | 12 | + | 363 |
| 17W LED | TS293 | A LED | 17 | + | 363 |
| 24W LED | TS293 | A LED | 24 | + | 363 |

Three Circuit Track

| | | | | | |
|---------|-------|-------|----|---|-----|
| 12W LED | TT293 | A LED | 12 | + | 363 |
| 17W LED | TT293 | A LED | 17 | + | 363 |
| 24W LED | TT293 | A LED | 24 | + | 363 |

| LOR | LED W (Total Power W) | | | |
|----------------|-----------------------|-----------|-----------|-----------|
| | 0.81 | 12 (13.2) | 17 (19.7) | 24 (26.4) |
| 3000K (CRI 90) | 1629 lm | 2255 lm | 3236 lm | |
| 4000K (CRI 90) | 1767 lm | 2446 lm | 3447 lm | |



- A** Integral Driver
- J** Switch Dim
- S** DALI Dim

- 3** Warm (3000K) **4** Neutral (4000K)

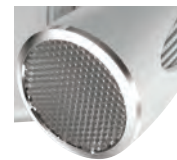
- 1** White (RAL 9010) **2** Urban Graphite (RAL 7046) **3** Black (RAL 9005)

| Reflector | CRI | |
|------------------------|-------|-------|
| | CR 80 | CR 90 |
| 384 Narrow Beam | 364 | 365 |
| 385 Wide Beam | 366 | 367 |

Luminescent Halo, Baffle Options Shown



- CRI of 80 and 90 available, Single point Zhaga Book 3 LED
- Available in a choice of lumen outputs, delivering up to 3880 lumens
- Efficacies up to 121 lm/W
- Medium beam reflector supplied as standard (narrow and wide beam also available)
- Effective thermal management offers a life expectancy in excess of 60,000 hours (L80)
- Colour stability within 3 MacAdams
- Surface, Single and Three Circuit Track mounting choices



478 Anti Glare Baffle

Luminescent Halo, Baffle Options



473 Etched Ice



474 Neptune Blue



475 Mars Red



477 Acid Green



Asara 055

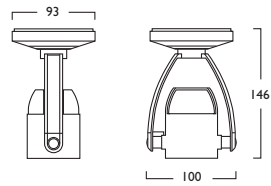


LED
Surface
 7W LED GU10 MS055 A LED 07

Single Circuit Track
 7W LED GU10 TS055 A LED 07

Three Circuit Track
 7W LED GU10 TT055 A LED 07

| LOR | LED W (Total Power W) |
|----------------|-----------------------|
| 1.0 | 7 (7.0) |
| 2800K (CRI 80) | 550 lm |
| 4000K (CRI 80) | 550 lm |



230V 50Hz IP 20 170° 330° 50mm 0.7 kg

- Supplied with branded dimmable LED lamp (replaceable)
- Delivering a lumen output up to 550 lumens
- Efficacies up to 78 lm/W
- Engineered to ensure lumen performance, thermal management and longevity
- Surface, Single and Three Circuit Track versions available
- Life expectancy 50,000 hours (L70)
- Colour stability within 3 MacAdams
- Dimmable with most leading edge dimmers



- A No Control Gear 230V
- 3 Warm (2800K) 4 Neutral (4000K)
- 1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

please be
seated_





Single Circuit Track

Single Circuit Track

| | | | | |
|------------|-------|---|--------|---|
| 1m Surface | TS170 | A | SCT016 | — |
| 2m Surface | TS171 | A | SCT016 | — |
| 3m Surface | TS172 | A | SCT016 | — |

230V 50Hz Max 16A 3.84KW IP 10 1m/0.5kg 2m/1.0kg 3m/1.5kg 25kg

Single Circuit Track Accessories

| | | | | |
|-----------------------|-------|---|--------|---|
| Track Adaptor | TS173 | A | SCT006 | — |
| Live End | TS174 | A | SCT016 | — |
| Live End Reverse | TS175 | A | SCT016 | — |
| Dead End | TS176 | X | SCT000 | — |
| Adjustable Connector | TS177 | A | SCT016 | — |
| L Inner Connector | TS178 | A | SCT016 | — |
| L Outer Connector | TS179 | A | SCT016 | — |
| T Outer Connector | TS180 | A | SCT016 | — |
| T Inner Connector | TS181 | A | SCT016 | — |
| T Outer Connector | TS182 | A | SCT016 | — |
| T Inner Connector | TS183 | A | SCT016 | — |
| Centre Feed Connector | TS184 | A | SCT016 | — |
| Straight Connector | TS185 | A | SCT016 | — |
| X Connector | TS186 | A | SCT016 | — |

230V 50Hz IP 10

Single Circuit Track Suspensions

| | | | | |
|------------------------|-------|---|--------|---|
| Suspension Support | TS188 | X | SCT000 | 6 |
| 2m Suspension Wire Kit | TS190 | X | SCT000 | 4 |
| 5m Suspension Wire Kit | TS195 | X | SCT000 | 4 |

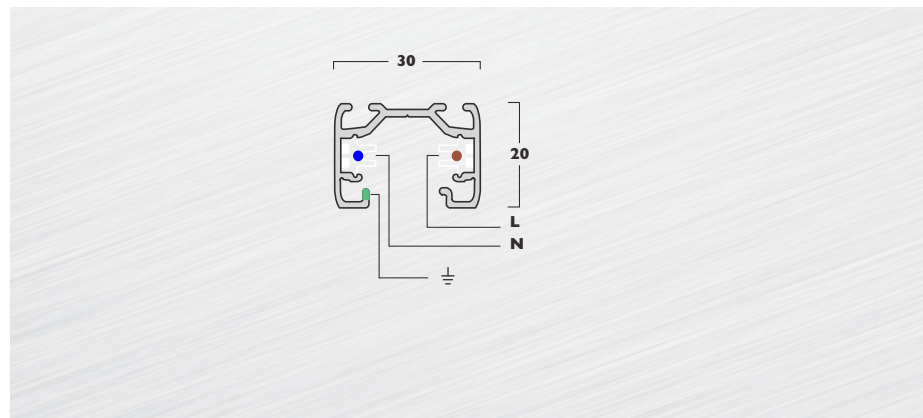
Per Suspension 15kg

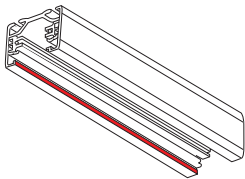


- Slim Single Circuit Track and Accessories
- Provide quality and versatility to lighting installations
- Available in Surface and Suspended versions
- Track and connectors rated at 16A
- Compatible with Hacer luminaires with a prefix TS
- Track can be cut to length by installer if required

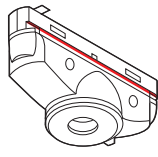
A No Control Gear 230V
X Non Electrical Component

1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

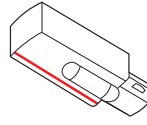




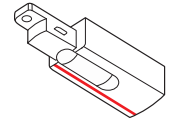
1m **TS170A SCT 016**
 2m **TS171A SCT 016**
 3m **TS172A SCT 016**
 Single Circuit Track



TS173A SCT 006
 Track Adaptor



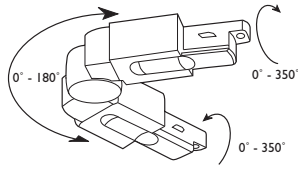
TS174A SCT 016
 Live End



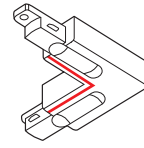
TS175A SCT 016
 Live End Reverse



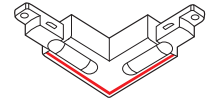
TS176X SCT 000
 Dead End



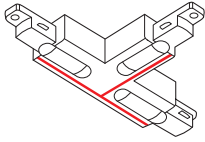
TS177A SCT 016
 Adjustable Connector



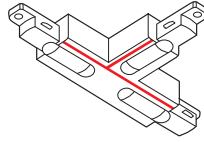
TS178A SCT 016
 L Inner Connector



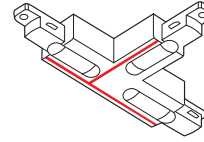
TS179A SCT 016
 L Outer Connector



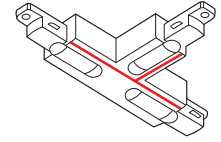
TS180A SCT 016
 T Outer Connector



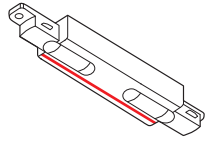
TS181A SCT 016
 T Inner Connector



TS182A SCT 016
 T Outer Connector



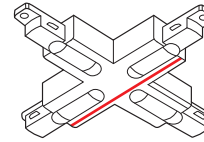
TS183A SCT 016
 T Inner Connector



TS184A SCT 016
 Centre Feed



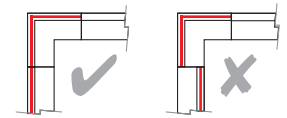
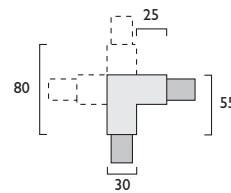
TS185A SCT 016
 Straight Connector



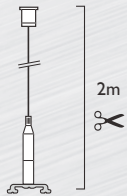
TS186A SCT 016
 X Connector



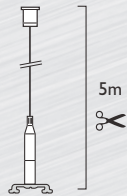
TS188X SCT 000
 Suspension Support



Continuity must be maintained

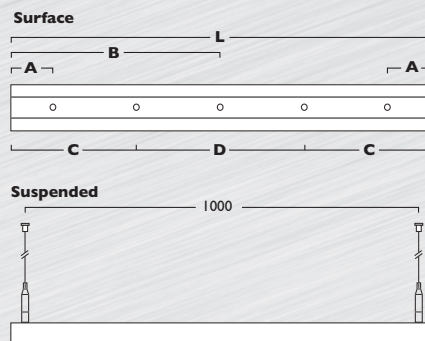


TS190X SCT 000
 2m Wire Suspension Kit



TS195X SCT 000
 5m Wire Suspension Kit

Wire suspension kits incorporate polished chrome clutches for ease of installation.



| L (m) | A (mm) | B (mm) | C (mm) | D (mm) |
|-------|--------|--------|--------|--------|
| 1m | 250 | - | - | - |
| 2m | 250 | 1000 | - | - |
| 3m | 250 | - | 1000 | 1000 |

Single Circuit

Three Circuit Track

Three Circuit Track

| | | | | |
|------------|-------|---|--------|---|
| 1m Surface | TT300 | A | TCT016 | — |
| 2m Surface | TT301 | A | TCT016 | — |
| 3m Surface | TT302 | A | TCT016 | — |

230V 50Hz IP 10 1m/0.9kg 2m/1.8kg 3m/2.7kg 25kg

Three Circuit Track Accessories

| | | | | |
|------------------------|-------|---|--------|---|
| Track Adaptor | TT319 | A | TCT006 | — |
| Live End | TT306 | A | TCT016 | — |
| Live End Reverse | TT307 | A | TCT016 | — |
| Straight Connector | TT308 | A | TCT016 | — |
| L Inner Connector | TT310 | A | TCT016 | — |
| L Outer Connector | TT311 | A | TCT016 | — |
| Adjustable Connector | TT312 | A | TCT016 | — |
| Centre Feed Connector | TT313 | A | TCT016 | — |
| X Connector | TT314 | A | TCT016 | — |
| Flexible Connector | TT315 | A | TCT016 | — |
| Dead End | TT318 | X | TCT000 | — |
| T Outer Connector | TT322 | A | TCT016 | — |
| T Outer Connector | TT323 | A | TCT016 | — |
| T Inner Connector | TT324 | A | TCT016 | — |
| T Inner Connector | TT325 | A | TCT016 | — |
| Conductor Bending Tool | TT320 | X | TCT016 | — |

230V 50Hz IP 10

Three Circuit Track Suspensions

| | | | | |
|------------------------|-------|---|--------|---|
| Suspension Support | TT321 | X | TCT000 | 6 |
| 2m Suspension Wire Kit | TT316 | X | TCT000 | 4 |
| 5m Suspension Wire Kit | TT326 | X | TCT000 | 4 |

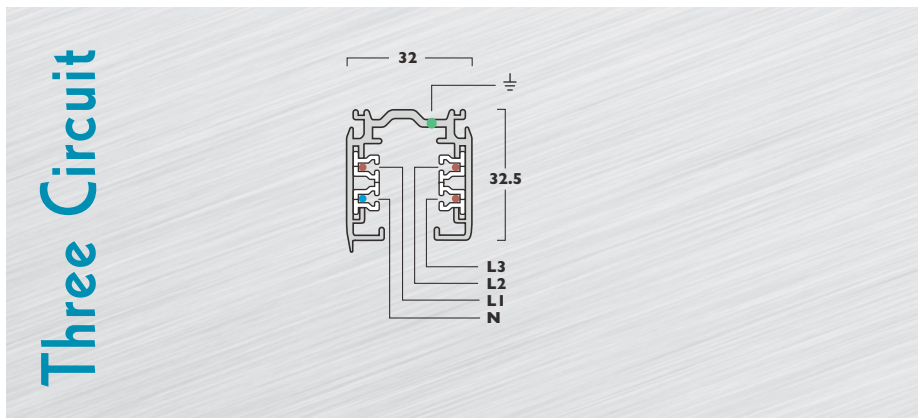
Per Suspension 15kg

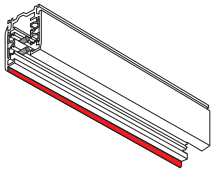


- Professional quality Track and Accessories
- Eminently suited for installation with multi-circuit requirement
- Available in Surface and Suspended versions
- Each Live conductor rated 16A
(if operating on a single phase, neutral current must not exceed 16A)
- Compatible with Hacer Luminaires with a prefix TT
- Track can be cut to length by Installer if required
- Conductor Bending Tool required to reset conductors after cutting

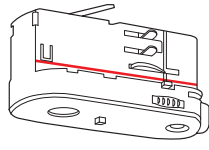
A No Control Gear 230V
X Non Electrical Component

1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

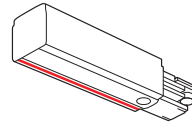




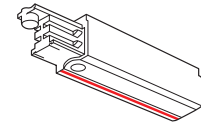
1m **TT300A TCT 016**
 2m **TT301A TCT 016**
 3m **TT302A TCT 016**
 Three Circuit Track



TT319A TCT 006
 Track Adaptor



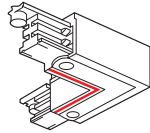
TT306A TCT 016
 Live End



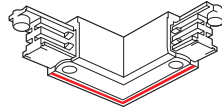
TT307A TCT 016
 Live End Reverse



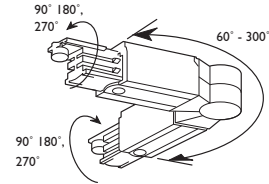
TT308A TCT 016
 Straight Connector



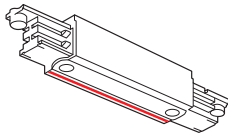
TT310A TCT 016
 L Inner Connector



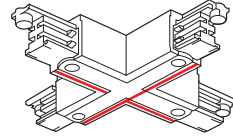
TT311A TCT 016
 L Outer Connector



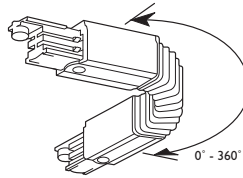
TT312A TCT 016
 Adjustable Connector



TT313A TCT 016
 Centre Feed



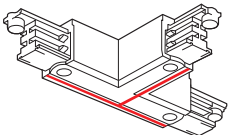
TT314A TCT 016
 X Connector



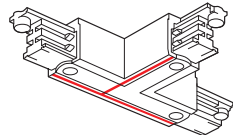
TT315A TCT 016
 Flexible Connector



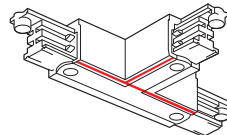
TT318X TCT 000
 Dead End



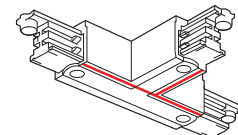
TT322A TCT 016
 T Outer Connector



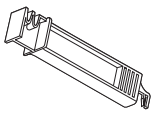
TT323A TCT 016
 T Outer Connector



TT324A TCT 016
 T Inner Connector



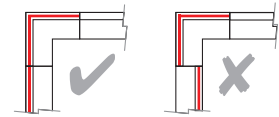
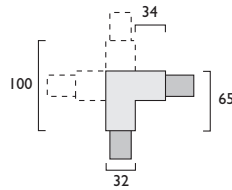
TT325A TCT 016
 T Inner Connector



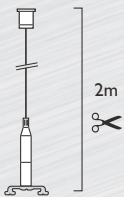
TT320X TCT 000
 Conductor Bending Tool



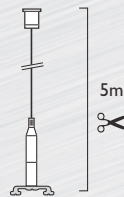
TT321X TCT 000
 Suspension Support



Continuity must be maintained

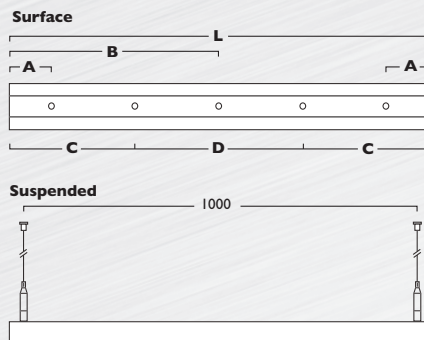


TT316X TCT 000
 2m Wire Suspension Kit



TT326X TCT 000
 5m Wire Suspension Kit

Wire suspension kits incorporate polished chrome clutches for ease of installation.



| L (m) | A (mm) | B (mm) | C (mm) | D (mm) |
|----------|-----------|-----------|-----------|-----------|
| 1m | 250 | - | - | - |
| 2m | 250 | 1000 | - | - |
| 3m | 250 | - | 1000 | 1000 |



Adidas UK

Bringing an interactive retail experience, Adidas launched their HomeCourt Concept Stores in the UK, complete with inspired luminaires by Hacerl.



climachill
cooling revolution

www.hacel.com/climachill

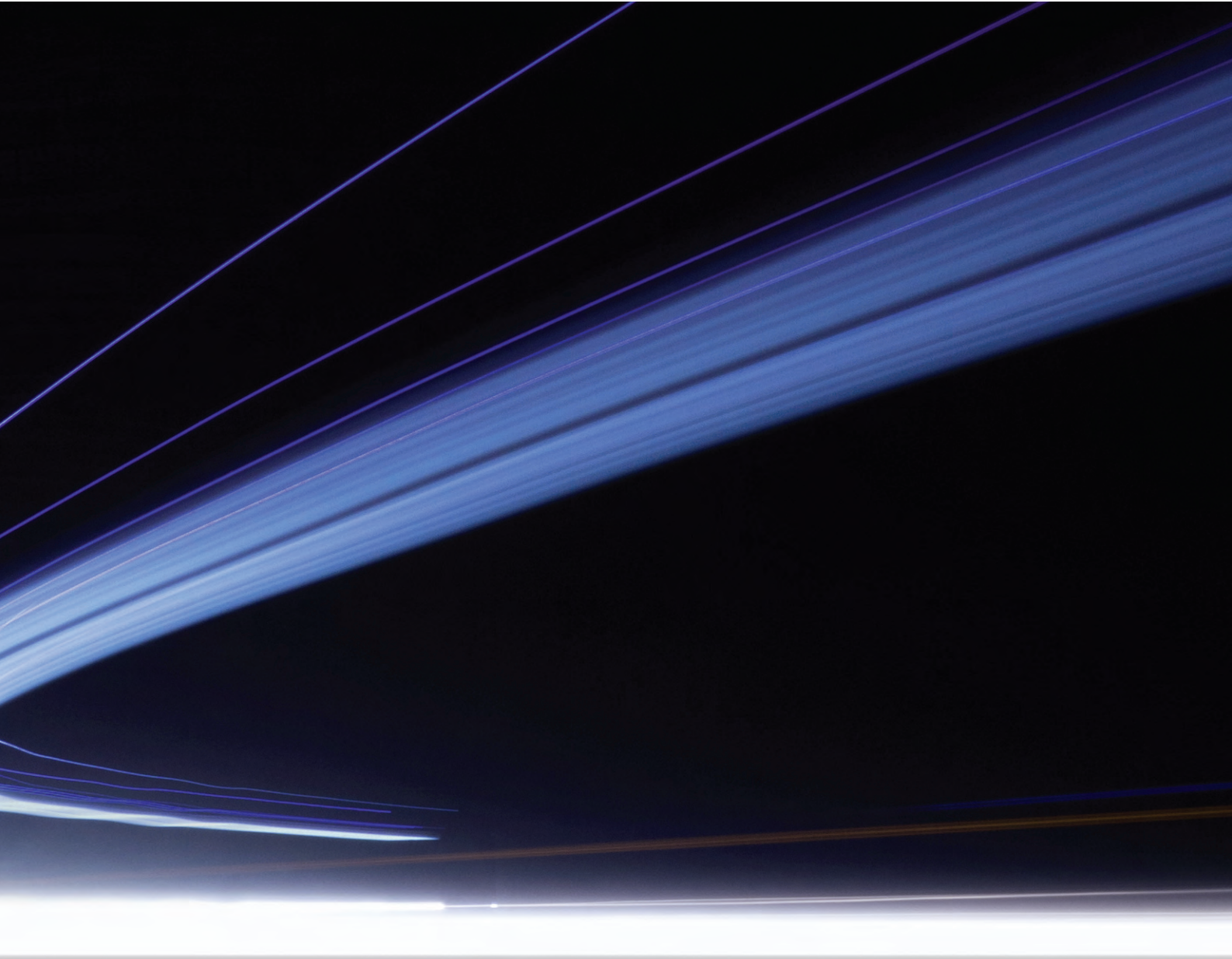
Hacel[®]
Fluent in Lighting

Infinitas®

Infinitas®

| | |
|---|------------|
| Direct - High, Medium and Low Output | 123 |
| Direct Indirect - High, Medium and Low Output | 127 |
| Manta® | 131 |
| Corner Direct - High, Medium and Low Output | 136 |
| Corner Direct Indirect - High, Medium and Low Output | 136 |
| End Caps, PIR | 137 |

Hacel®
Fluent in Lighting



Infinitas®

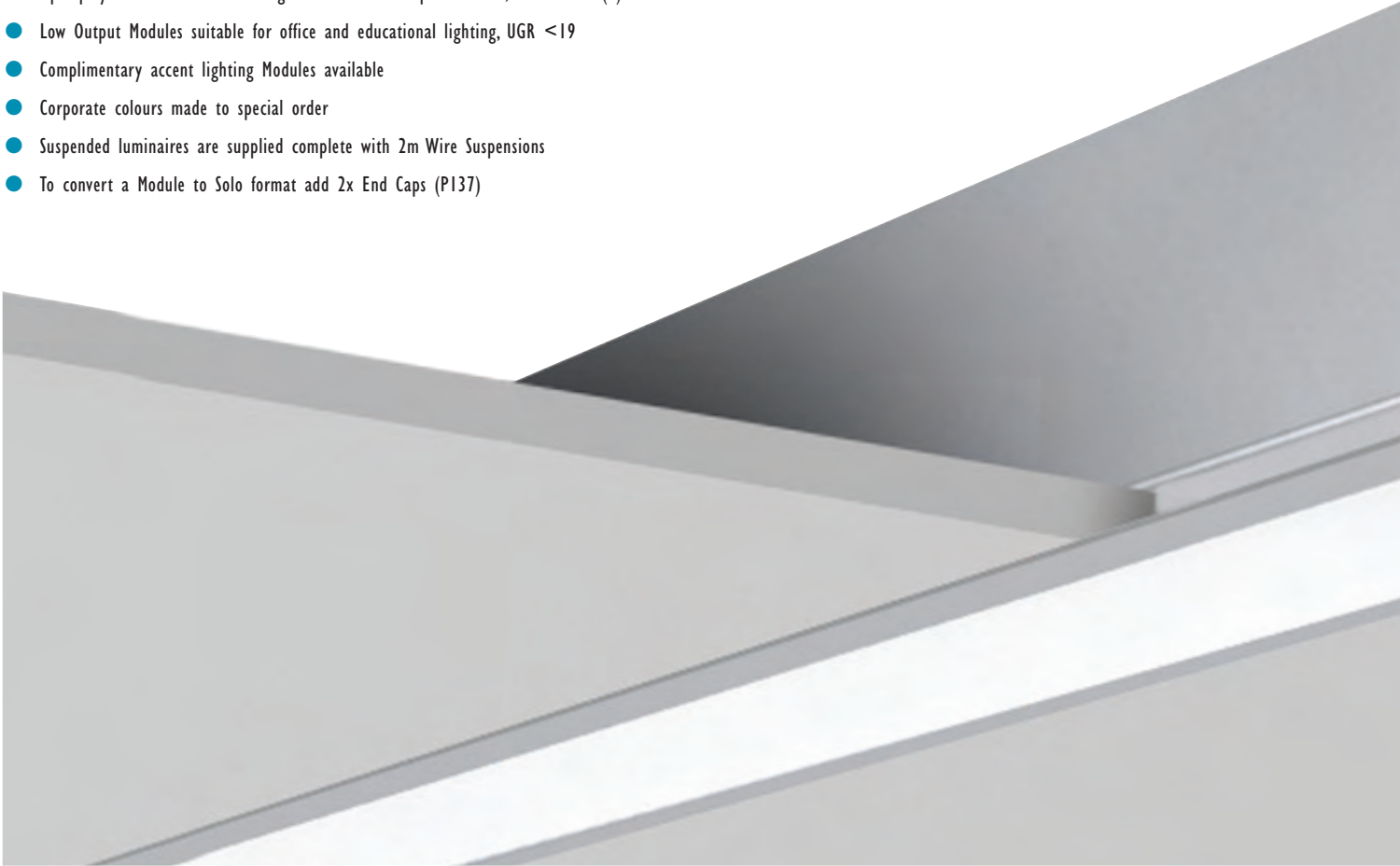
A display of understated elegance, Infinitas® by Hacer is a refined LED system. Sleek and slender in its design, the system is precision extruded and offers continuous lines of uninterrupted uniform lighting. Optional accent luminaires further enhance the versatility of Infinitas®. Available in Surface, Suspended or Recessed, in both Bezel and Bezel Free formats, the flexibility is further enhanced by uplighting variations and completely illuminated corners. Stylish solo modules are also available to compliment the continuous system.





Infinitas[®] Direct

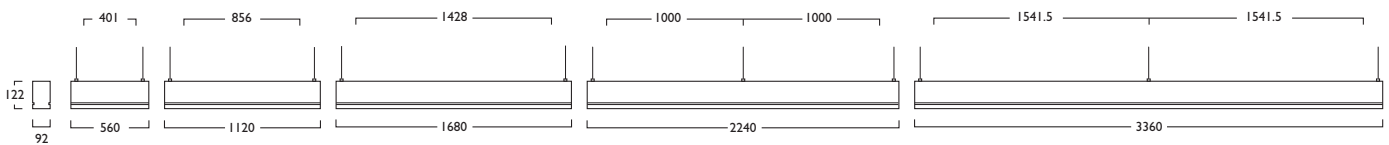
- Precision Extruded Aluminium luminaires in a choice of lengths
- Available in a choice of lumen outputs, delivering up to 10140 lumens
- Efficacies up to 99 lm/W
- Life expectancy of 55,000 hours (L80), Zhaga Book 7 LED
- Available in High, Medium or Low Output Modules
- Opal polycarbonate refractor designed for maximum performance, Refractor TP(b) rated
- Low Output Modules suitable for office and educational lighting, UGR <19
- Complimentary accent lighting Modules available
- Corporate colours made to special order
- Suspended luminaires are supplied complete with 2m Wire Suspensions
- To convert a Module to Solo format add 2x End Caps (P137)



Suspended fixing centres



Surface/Recessed fixing centres



| | | | | | | | |
|------|-----------|--|--------|--------|--------|---------|---------|
| 230W | IP | | 560mm | 1120mm | 1680mm | 2240mm | 3360mm |
| 50Hz | 20 | | 4.0 kg | 7.4 kg | 9.3 kg | 14.8 kg | 18.6 kg |

Infinitas® Direct

High Output

| | | ☀️ | | ☀️ | | ☀️ | | ☀️ | | ☀️ | | ☀️ | |
|-----|-----|--------|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ |
| LED | | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ |
| 12W | LED | 560mm | 376 | LED | 12 | --- | --- | --- | --- | --- | --- | --- | 388 |
| 25W | LED | 1120mm | 377 | LED | 25 | --- | --- | --- | --- | --- | --- | --- | 389 |
| 37W | LED | 1680mm | 378 | LED | 37 | --- | --- | --- | --- | --- | --- | --- | 390 |
| 50W | LED | 2240mm | 379 | LED | 50 | --- | --- | --- | --- | --- | --- | --- | 391 |
| 74W | LED | 3360mm | 380 | LED | 74 | --- | --- | --- | --- | --- | --- | --- | 392 |

560mm Not available in Emergency Gear Types

| LOR | LED W (Total Power W) | | | | |
|----------------|-----------------------|-----------|-----------|-----------|-----------|
| 0.61 | 12 (14.7) | 25 (27.3) | 37 (39.5) | 50 (54.6) | 74 (79.0) |
| 3000K (CRI 80) | 1630 lm | 3260 lm | 4890 lm | 6520 lm | 9780 lm |
| 4000K (CRI 80) | 1690 lm | 3380 lm | 5070 lm | 6760 lm | 10140 lm |

Medium Output

| | | ☀️ | | ☀️ | | ☀️ | | ☀️ | | ☀️ | | ☀️ | |
|-----|-----|--------|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ |
| LED | | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ |
| 8W | LED | 560mm | 376 | LED | 08 | --- | --- | --- | --- | --- | --- | --- | 388 |
| 16W | LED | 1120mm | 377 | LED | 16 | --- | --- | --- | --- | --- | --- | --- | 389 |
| 24W | LED | 1680mm | 378 | LED | 24 | --- | --- | --- | --- | --- | --- | --- | 390 |
| 32W | LED | 2240mm | 379 | LED | 32 | --- | --- | --- | --- | --- | --- | --- | 391 |
| 48W | LED | 3360mm | 380 | LED | 48 | --- | --- | --- | --- | --- | --- | --- | 392 |

560mm Not available in Emergency Gear Types

| LOR | LED W (Total Power W) | | | | |
|----------------|-----------------------|-----------|-----------|-----------|-----------|
| 0.61 | 8 (8.1) | 16 (16.1) | 24 (24.3) | 32 (32.4) | 48 (48.6) |
| 3000K (CRI 80) | 1163 lm | 2326 lm | 3489 lm | 4652 lm | 6978 lm |
| 4000K (CRI 80) | 1190 lm | 2380 lm | 3570 lm | 4760 lm | 7140 lm |

Low Output

| | | ☀️ | | ☀️ | | ☀️ | | ☀️ | | ☀️ | | ☀️ | |
|-----|-----|--------|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ |
| LED | | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ | ☀️ |
| 4W | LED | 560mm | 376 | LED | 04 | --- | --- | --- | --- | --- | --- | --- | 388 |
| 8W | LED | 1120mm | 377 | LED | 08 | --- | --- | --- | --- | --- | --- | --- | 389 |
| 13W | LED | 1680mm | 378 | LED | 13 | --- | --- | --- | --- | --- | --- | --- | 390 |
| 17W | LED | 2240mm | 379 | LED | 17 | --- | --- | --- | --- | --- | --- | --- | 391 |
| 25W | LED | 3360mm | 380 | LED | 25 | --- | --- | --- | --- | --- | --- | --- | 392 |

560mm Not available in Emergency Gear Types

| LOR | LED W (Total Power W) | | | | |
|----------------|-----------------------|---------|-----------|-----------|-----------|
| 0.61 | 4 (4.3) | 8 (8.6) | 13 (13.9) | 17 (18.1) | 25 (26.8) |
| 3000K (CRI 80) | 679 lm | 1358 lm | 2037 lm | 2716 lm | 4074 lm |
| 4000K (CRI 80) | 704 lm | 1408 lm | 2112 lm | 2816 lm | 4224 lm |

To ensure illumination uniformity High, Medium or Low Output Modules should **not** be mixed. Modules should **always** be matched within their output group.



■ IU Suspended IW Surface IY Recessed Bezel IZ Recessed Bezel Free

■ A Integral Driver
 ■ E Emergency
 ■ J Switch Dim
 ■ K Switch Dim + Emergency
 ■ S DALI Dim
 ■ T DALI Dim + Emergency
 ■ C DALI Dim + DALI Emergency

■ 3 Warm (3000K) 4 Neutral (4000K)

■ 1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

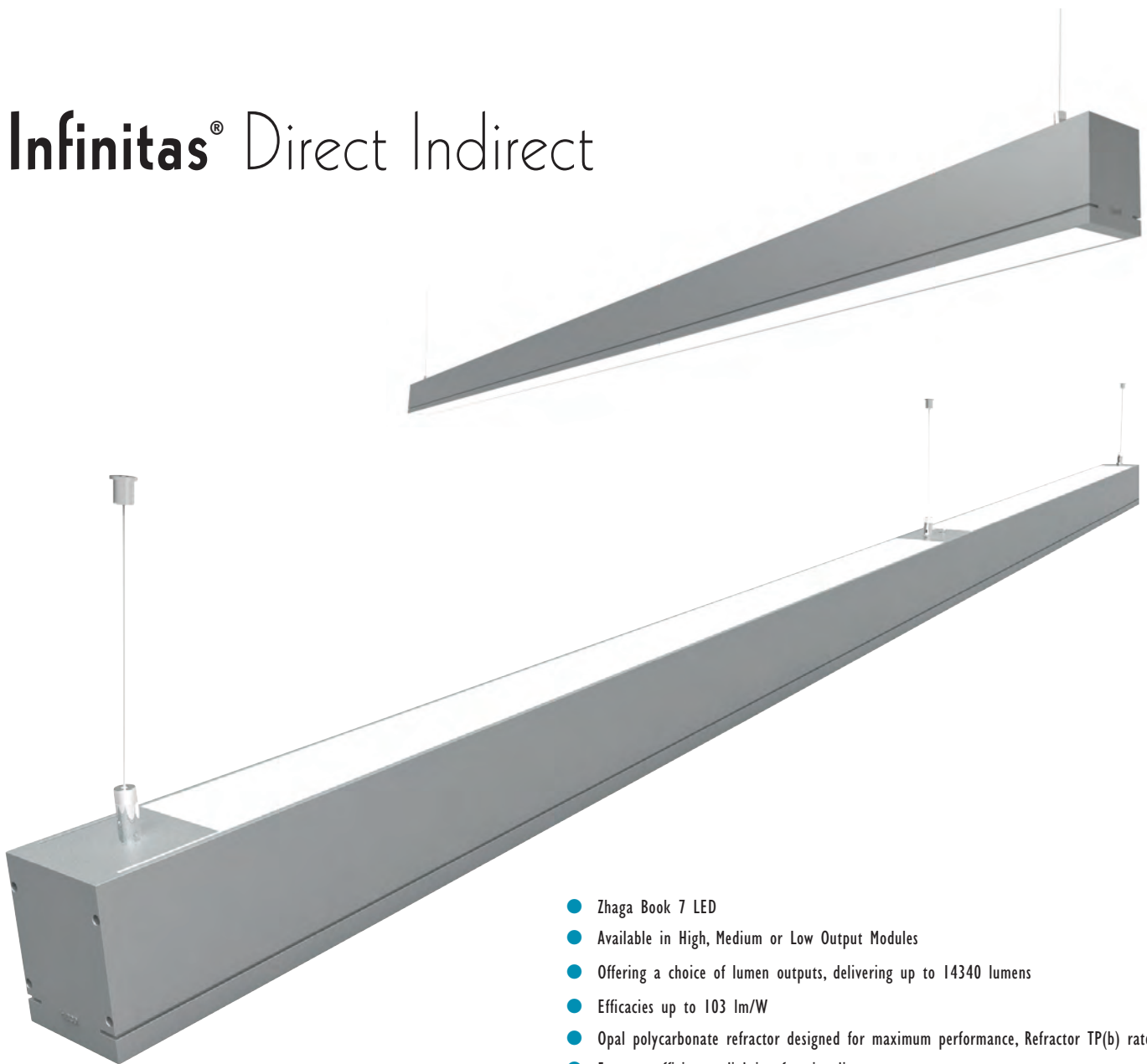
■ 303 2x 5m Suspensions (wires only)(560mm/1120mm/1680mm Modules)

■ 344 3x 5m Suspensions (wires only)(2240mm/3360mm Modules)



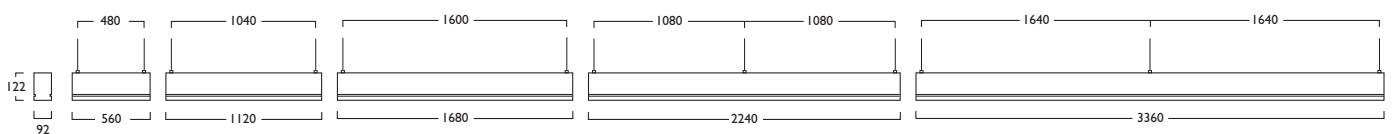


Infinitas[®] Direct Indirect



- Zhaga Book 7 LED
- Available in High, Medium or Low Output Modules
- Offering a choice of lumen outputs, delivering up to 14340 lumens
- Efficacies up to 103 lm/W
- Opal polycarbonate refractor designed for maximum performance, Refractor TP(b) rated
- Features efficient uplighting functionality
- Life expectancy in excess of 55,000 hours (L80)
- Low Output Modules suitable for office and educational lighting, UGR <19
- Available in suspended format only, supplied with 2m Wire Suspensions as standard
- To convert a Module to Solo format add 2x End Caps (P137)

Suspended fixing centres



| | | | | | | | |
|------|----|---|--------|--------|--------|---------|---------|
| 230V | IP | ⚠ | 560mm | 1120mm | 1680mm | 2240mm | 3360mm |
| 50Hz | 20 | | 4.5 kg | 7.9 kg | 9.8 kg | 15.8 kg | 19.6 kg |

Infinitas® Direct Indirect

High Output

| LED | ☀️ | 📏 | 👁️ | 📦 | Ⓚ | 🔌 | + | ⚡ |
|---------|--------|--------|-----|----|-----|-----|-----|-----|
| 17W LED | 560mm | IV 385 | LED | 17 | --- | --- | --- | 393 |
| 33W LED | 1120mm | IV 386 | LED | 33 | --- | --- | --- | 394 |
| 50W LED | 1680mm | IV 387 | LED | 50 | --- | --- | --- | 395 |
| 66W LED | 2240mm | IV 388 | LED | 66 | --- | --- | --- | 396 |
| 99W LED | 3360mm | IV 389 | LED | 99 | --- | --- | --- | 397 |

560mm Not available in Emergency Gear Types

| LOR | LED W (Total Power W) | | | | |
|----------------|-----------------------|-----------|-----------|-----------|------------|
| 0.63 | 17 (19.6) | 33 (36.3) | 50 (52.5) | 66 (72.6) | 99 (105.0) |
| 3000K (CRI 80) | 2313 lm | 4626 lm | 6939 lm | 9252 lm | 13878 lm |
| 4000K (CRI 80) | 2390 lm | 4780 lm | 7170 lm | 9560 lm | 14340 lm |

Medium Output

| LED | ☀️ | 📏 | 👁️ | 📦 | Ⓚ | 🔌 | + | ⚡ |
|---------|--------|--------|-----|----|-----|-----|-----|-----|
| 12W LED | 560mm | IV 385 | LED | 12 | --- | --- | --- | 403 |
| 24W LED | 1120mm | IV 386 | LED | 24 | --- | --- | --- | 404 |
| 36W LED | 1680mm | IV 387 | LED | 36 | --- | --- | --- | 405 |
| 48W LED | 2240mm | IV 388 | LED | 48 | --- | --- | --- | 406 |
| 73W LED | 3360mm | IV 389 | LED | 73 | --- | --- | --- | 407 |

560mm Not available in Emergency Gear Types

| LOR | LED W (Total Power W) | | | | |
|----------------|-----------------------|-----------|-----------|-----------|-----------|
| 0.63 | 12 (12.7) | 24 (25.4) | 36 (38.5) | 48 (50.9) | 73 (78.1) |
| 3000K (CRI 80) | 1831 lm | 3662 lm | 5493 lm | 7324 lm | 10986 lm |
| 4000K (CRI 80) | 1894 lm | 3788 lm | 5682 lm | 7576 lm | 11364 lm |

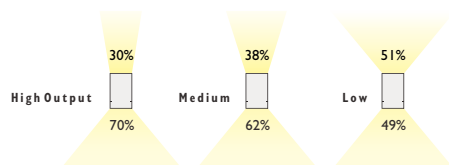
Low Output

| LED | ☀️ | 📏 | 👁️ | 📦 | Ⓚ | 🔌 | + | ⚡ |
|---------|--------|--------|-----|----|-----|-----|-----|-----|
| 8W LED | 560mm | IV 385 | LED | 08 | --- | --- | --- | 408 |
| 17W LED | 1120mm | IV 386 | LED | 17 | --- | --- | --- | 409 |
| 25W LED | 1680mm | IV 387 | LED | 25 | --- | --- | --- | 410 |
| 33W LED | 2240mm | IV 388 | LED | 33 | --- | --- | --- | 411 |
| 50W LED | 3360mm | IV 389 | LED | 50 | --- | --- | --- | 412 |

560mm Not available in Emergency Gear Types

| LOR | LED W (Total Power W) | | | | |
|----------------|-----------------------|-----------|-----------|-----------|-----------|
| 0.63 | 8 (8.6) | 17 (18.2) | 25 (26.8) | 33 (35.3) | 50 (53.6) |
| 3000K (CRI 80) | 1358 lm | 2716 lm | 4074 lm | 5432 lm | 8148 lm |
| 4000K (CRI 80) | 1408 lm | 2816 lm | 4224 lm | 5632 lm | 8448 lm |

To ensure illumination uniformity High, Medium or Low Output Modules should **not** be mixed. Modules should **always** be matched within their output group.



IV Suspended (Direct/Indirect)

- A Integral Driver
- E Emergency
- J Switch Dim
- K Switch Dim + Emergency
- S DALI Dim
- T DALI Dim + Emergency
- C DALI Dim + DALI Emergency

3 Warm (3000K) 4 Neutral (4000K)

1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

303 2x 5m Suspensions (wires only)(560mm/1120mm/1680mm Modules)

344 3x 5m Suspensions (wires only)(2240mm/3360mm Modules)





Infinitas® Manta®

- Dynamic Single point Zhaga Book 3 LED Power Spot provides distinctive accent lighting
- Available in a choice of lumen outputs, delivering up to 3880 lumens
- Efficacies up to 121 lm/W
- Outstanding energy efficiency and life expectancy of 60,000 hours (L80)
- Superior colour rendering properties of 80 and 90
- Colour stability within 3 MacAdams
- Medium beam reflector supplied as standard
- To convert a Module to Solo format add 2x End Caps (P137)
- Two and three head Manta® versions available



■ Luminescent Halo, Baffle Options



486 2x / 491 3x
Etched Ice



487 2x / 492 3x
Neptune Blue



488 2x / 493 3x
Mars Red



489 2x / 494 3x
Acid Green



490 2x / 495 3x
Anti Glare Baffle



Infinitas® Manta®

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LED CRI 80

| | | | | | | | |
|--------|-----|--------|-----|-----|----|---|-----|
| 2x 12W | LED | 1120mm | 381 | LED | 12 | + | 362 |
| 2x 17W | LED | 1120mm | 381 | LED | 17 | + | 362 |
| 2x 24W | LED | 1120mm | 381 | LED | 24 | + | 362 |
| 3x 12W | LED | 1120mm | 382 | LED | 12 | + | 362 |
| 3x 17W | LED | 1120mm | 382 | LED | 17 | + | 362 |
| 3x 24W | LED | 1120mm | 382 | LED | 24 | + | 362 |

| LOR | LED W (Total Power W) | | |
|----------------|-----------------------|-----------|-----------|
| 0.81 | 12 (13.2) | 17 (19.7) | 24 (26.4) |
| 3000K (CRI 80) | 1886 lm | 2611 lm | 3784 lm |
| 4000K (CRI 80) | 1978 lm | 2738 lm | 3880 lm |

Table applies to one LED Light Engine

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LED CRI 90

| | | | | | | | |
|--------|-----|--------|-----|-----|----|---|-----|
| 2x 12W | LED | 1120mm | 390 | LED | 12 | + | 363 |
| 2x 17W | LED | 1120mm | 390 | LED | 17 | + | 363 |
| 2x 24W | LED | 1120mm | 390 | LED | 24 | + | 363 |
| 3x 12W | LED | 1120mm | 391 | LED | 12 | + | 363 |
| 3x 17W | LED | 1120mm | 391 | LED | 17 | + | 363 |
| 3x 24W | LED | 1120mm | 391 | LED | 24 | + | 363 |

| LOR | LED W (Total Power W) | | |
|----------------|-----------------------|-----------|-----------|
| 0.81 | 12 (13.2) | 17 (19.7) | 24 (26.4) |
| 3000K (CRI 90) | 1629 lm | 2255 lm | 3236 lm |
| 4000K (CRI 90) | 1767 lm | 2446 lm | 3447 lm |

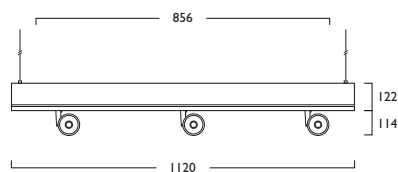
Table applies to one LED Light Engine



Suspended fixing centres



Surface/Recessed fixing centres



230V 50Hz IP 20 90° 353° 2x Manta 7.0 kg 3x Manta 8.0 kg

IU Suspended IW Surface IY Recessed Bezel IZ Recessed Bezel Free

A Integral Driver
J Switch Dim
S DALI Dim

3 Warm (3000K) 4 Neutral (4000K)

I White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

| Reflector | CRI 80 | CRI 90 |
|--------------------|--------|--------|
| 480 2x Narrow Beam | 364 | 365 |
| 481 2x Wide Beam | 366 | 367 |
| 482 3x Narrow Beam | 364 | 365 |
| 483 3x Wide Beam | 366 | 367 |

303 2x 5m Suspension (wire only)

Luminescent Halo, Baffle Options Shown



Infinitas[®]







Infinitas® Corner Direct

High Output

| | | | | | | | | | | |
|------------|------------------|-----|-----|----|--|--|--|--|--|-----|
| | | | | | | | | | | |
| LED | | | | | | | | | | |
| 25W LED | 615mm Right Hand | 373 | LED | 25 | | | | | | 398 |
| 25W LED | 615mm Left Hand | 392 | LED | 25 | | | | | | 398 |

Medium Output

| | | | | | | | | | | |
|------------|------------------|-----|-----|----|--|--|--|--|--|-----|
| LED | | | | | | | | | | |
| 16W LED | 615mm Right Hand | 373 | LED | 16 | | | | | | 398 |
| 16W LED | 615mm Left Hand | 392 | LED | 16 | | | | | | 398 |

Low Output

| | | | | | | | | | | |
|------------|------------------|-----|-----|----|--|--|--|--|--|-----|
| LED | | | | | | | | | | |
| 8W LED | 615mm Right Hand | 373 | LED | 08 | | | | | | 398 |
| 8W LED | 615mm Left Hand | 392 | LED | 08 | | | | | | 398 |

| LOR | LED W (Total Power W) | | |
|----------------|-----------------------|-----------|---------|
| 0.61 | 25 (27.3) | 16 (16.1) | 8 (8.9) |
| 3000K (CRI 80) | 3260 lm | 2326 lm | 1314 lm |
| 4000K (CRI 80) | 3380 lm | 2380 lm | 1356 lm |

- Available in a choice of lumen outputs, delivering up to 3380 lumens (Direct) and 4780 lumens (Direct Indirect)
- Life expectancy in excess of 55,000 hours (L80)
- Opal polycarbonate refractor designed for maximum performance, Refractor TP(b) rated
- Efficacies up to 99 lm/W (Direct) and 97 lm/W (Direct Indirect)
- The PIR Sensor defaults can be modified with the use of the Hand Held Controller or Programmer (contact our Lighting Design Department for advice)

Infinitas® Corner Direct Indirect

High Output

| | | | | | | | | | | |
|------------|------------------|--------|-----|----|--|--|--|--|--|-----|
| | | | | | | | | | | |
| LED | | | | | | | | | | |
| 33W LED | 615mm Right Hand | IV 383 | LED | 33 | | | | | | 399 |
| 33W LED | 615mm Left Hand | IV 393 | LED | 33 | | | | | | 399 |

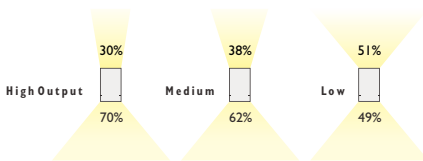
Medium Output

| | | | | | | | | | | |
|------------|------------------|--------|-----|----|--|--|--|--|--|-----|
| LED | | | | | | | | | | |
| 24W LED | 615mm Right Hand | IV 383 | LED | 24 | | | | | | 413 |
| 24W LED | 615mm Left Hand | IV 393 | LED | 24 | | | | | | 413 |

Low Output

| | | | | | | | | | | |
|------------|------------------|--------|-----|----|--|--|--|--|--|-----|
| LED | | | | | | | | | | |
| 17W LED | 615mm Right Hand | IV 383 | LED | 17 | | | | | | 414 |
| 17W LED | 615mm Left Hand | IV 393 | LED | 17 | | | | | | 414 |

| LOR | LED W (Total Power W) | | |
|----------------|-----------------------|-----------|-----------|
| 0.63 | 33 (36.3) | 24 (25.4) | 17 (18.2) |
| 3000K (CRI 80) | 4626 lm | 3662 lm | 2716 lm |
| 4000K (CRI 80) | 4780 lm | 3788 lm | 2816 lm |



To ensure illumination uniformity High, Medium or Low Output Modules should **not** be mixed. Modules should **always** be matched within their output group.

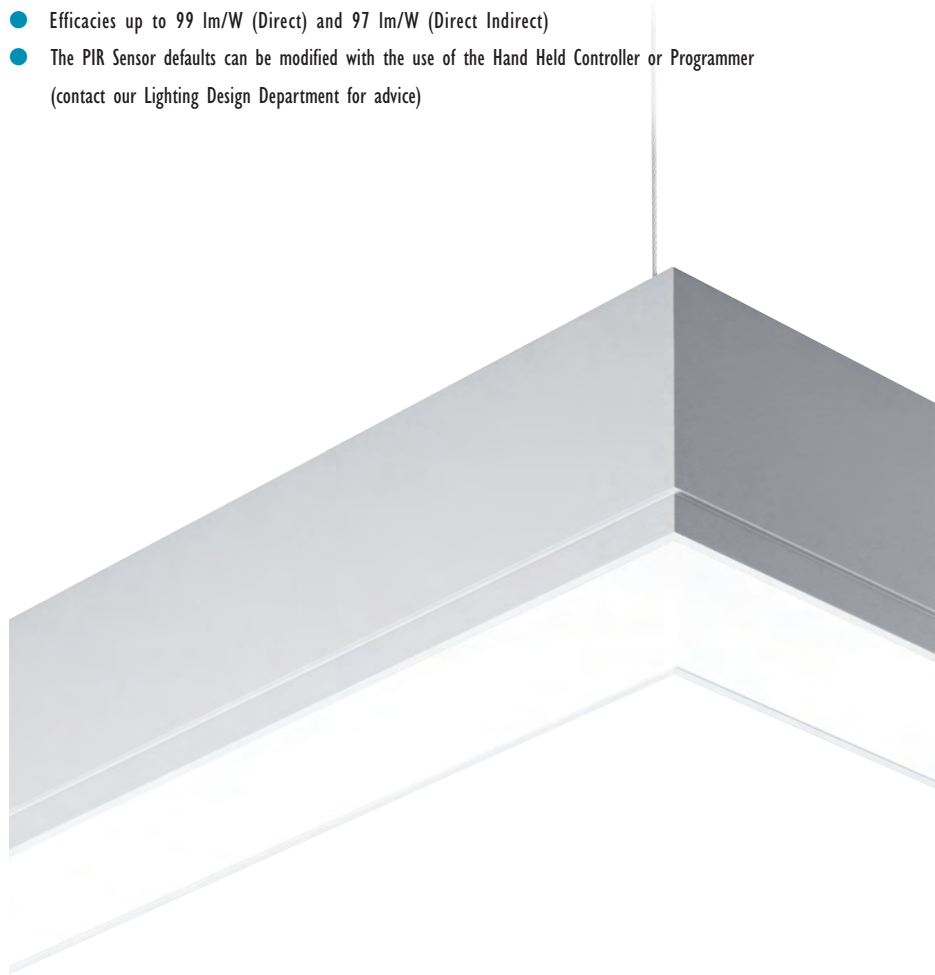
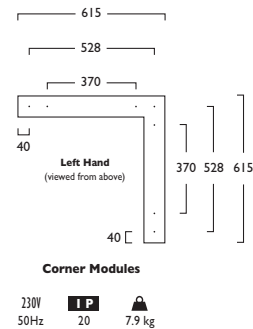
IU Suspended (Direct) **IV** Suspended (Direct/Indirect) **IW** Surface (Direct)
IY Recessed Bezel (Direct) **IZ** Recessed Bezel Free (Direct)

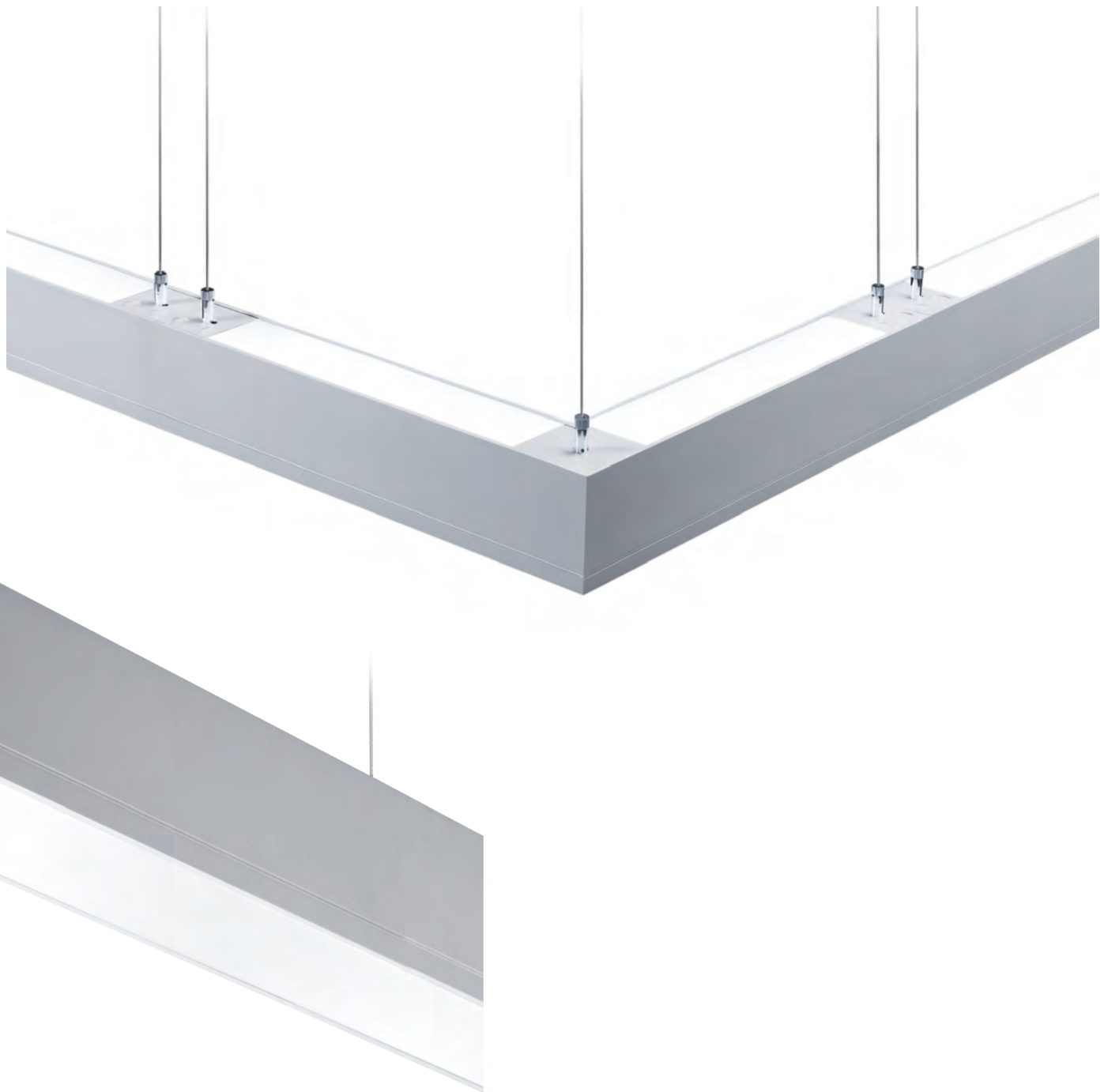
A Integral Driver/No Control Gear 230V
E Emergency
J Switch Dim
K Switch Dim + Emergency
S DALI Dim
T DALI Dim + Emergency
C DALI Dim + DALI Emergency
X Non Electrical Component

3 Warm (3000K) **4** Neutral (4000K)





1 White (RAL 9010) **2** Urban Graphite (RAL 7046) **3** Black (RAL 9005)

344 3x 5m Suspensions (wires only)



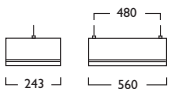


Infinitas® PIR

Module    

| | | | | | |
|------------|-------|---|---|--------|---|
| PIR Module | 243mm |  374 |  A | PIR000 |  - |
| PIR Module | 560mm |  375 |  A | PIR000 |  - |

PIR Module only suitable for use with Luminaires with Gear Types S, T, C



| | | | |
|-----------|---|--------|--------|
| IP |  | 243mm | 560mm |
| 20 | | 1.3 kg | 2.9 kg |

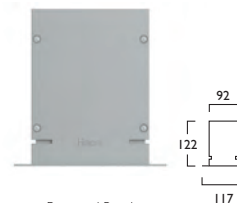
Infinitas® End Caps

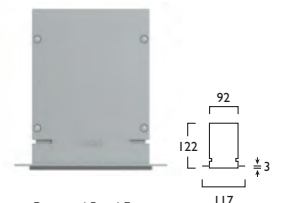
| | | | | |
|---------------------------------|-------|---|--------|---|
| 2x End Caps Surface/Suspended | IN370 |  X | CAP000 |  - |
| 2x End Caps Recessed Bezel | IN371 |  X | CAP000 |  - |
| 2x End Caps Recessed Bezel Free | IN372 |  X | CAP000 |  - |



Surface/Suspended



Recessed Bezel



Recessed Bezel Free







The Word – National Centre for the Written Word

The Word, a distinctive and futuristic state of the art cultural venue, is the jewel in the crown of a regeneration plan, featuring innovative, refined and stimulating luminaires by Hacerl.



Skylink

Skylink

| | |
|--|------------|
| Skylink Introduction | 146 |
| Opal | 149 |
| Aleda ® Adjustable Ported Fascias | 151 |
| Mounting Frames - Bezel, End Cap and Power Connectors | 154 |
| Spacer and PIR Fascias | 155 |

Hacel®
Fluent in Lighting



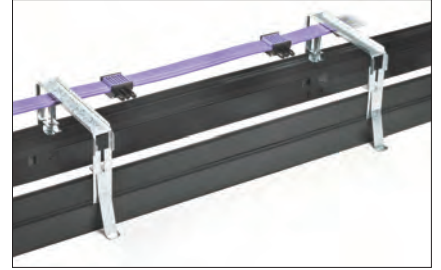


We have over 75 diverse services providing community health and social care, primary and specialist health care and integrated social care to over half a million people.

Our services help minimise the need for a hospital through **early interventions**, **community based treatment** and **promotion of health**.

Skylink

Skylink is a stylish continuous system, which fluently integrates superior quality, energy efficient ambient and accent lighting into a slim and sophisticated recessed Bezel or Bezel Free system.



Construction

- 1800mm Recessed Mounting Frames manufactured from precision extruded aluminium
- Mounting Frames accept either Recessed or Flush Fascias
- Available in Bezel and Bezel Free formats
- End Caps provide a precision die cast finish to the system
- Fixing Clamps and Continuation Links supplied
- Can be manufactured in special lengths to complete continuous runs
- Powder coat finished

Wiring

- High quality 16A seven core Ribbon Cable
- Provides both mains and dimming feeds, if required, to the Fascias
- Electrical supply to the Ribbon Cable is made by either Mains or Dimming Connector
- Ribbon Cable is specified by inserting the required length in metres (01,02 etc) at the end of the product number
- By default, LED and Ported Fascias have the live feed supplied to L1
- Ribbon Connector enables wiring to L1, L2 and L3. L2 and L3 should be ordered/specified at the same time as Fascias

Skylink

Introduction



LED

- LED Fascias can be used in a multiple format to create continuous runs or with End Caps to create single stand alone luminaires
- LED Fascias can be integrated with Ported and Spacer Fascias to create ambient and accent lighting scenarios
- Fascias are designed to neatly clip into the Skylink Mounting Frame
- LED Fascias are available in Recessed or Flush Formats (Formats should not be mixed)

Ported

- Neatly integrate Solo or Duet adjustable LED luminaires
- Can be utilised in either single or multiple Fascias
- Designed to simply clip into the Skylink Mounting Frame
- Can be integrated with LED and Spacer Fascias to create ambient and accent lighting scenarios
- Available in Recessed or Flush Formats (formats should not be mixed)

Spacer

- Spacer Fascias simply clip into the Mounting Frame
- Designed to be used in conjunction with Skylink LED and Ported Fascias
- Available in a choice of Recessed or Flush Formats (formats should not be mixed)
- Can be manufactured in special lengths to complete continuous runs





- Opal LED Fascias offer superior uniform light distribution with an exceptional LOR of 0.87
- Available in a choice of lumen outputs, delivering up to 6180 lumens
- Efficacies up to 116 lm/W
- Class leading, branded Zhaga Book 7 LED and driver incorporated
- High quality polycarbonate diffuser with wipe clean surface
- Life expectancy in excess of 50,000 hours (L70)





Skylink Opal

Opal

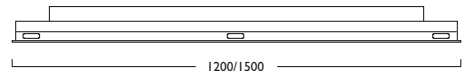


LED

| | | | | | | | |
|-----|-----|--------|-----|-----|----|---|-----|
| 25W | LED | 1200mm | 014 | LED | 25 | + | 400 |
| 46W | LED | 1200mm | 014 | LED | 46 | + | 400 |

230V 50Hz **IP** 20 1200mm 5.2 kg

| LOR | LED W (Total Power W) | |
|----------------|-----------------------|-----------|
| 0.87 | 25 (28.2) | 46 (50.2) |
| 3000K (CRI 80) | 3676 lm | 6000 lm |
| 4000K (CRI 80) | 3790 lm | 6180 lm |



SF Flush Fascia **SR** Recessed fascia

Gear types F & G must be operated through a DSI p294

- A** Integral Driver
 - E** Emergency
 - F** Digital Dim
 - G** Digital Dim + Emergency
 - J** Switch Dim
 - K** Switch Dim + Emergency
 - S** DALI Dim
 - T** DALI Dim + Emergency
 - C** DALI Dim + DALI Emergency
- 3** Warm (3000K) **4** Neutral (4000K)
- 1** White (RAL 9010) **2** Urban Graphite (RAL 7046) **3** Black (RAL 9005)
- 371** L2 Ribbon Connector
372 L3 Ribbon Connector

Skylink Aleda® Adjustable Ported Fascias

| LED CRI 80 | | | | | | | | | | |
|------------|------|-------|--------|------|-----|------|------|------|------|------|
| Power | Beam | Mount | Length | Temp | LED | Beam | Temp | Temp | Temp | Temp |
| 12W | LED | Solo | 600mm | 366 | LED | 12 | - | + | | 377 |
| 17W | LED | Solo | 600mm | 366 | LED | 17 | - | + | | 377 |
| 24W | LED | Solo | 600mm | 366 | LED | 24 | - | + | | 377 |
| 31W | LED | Solo | 600mm | 366 | LED | 31 | - | + | | 377 |
| 2x 12W | LED | Duet | 600mm | 368 | LED | 12 | - | + | | 377 |
| 2x 17W | LED | Duet | 600mm | 368 | LED | 17 | - | + | | 377 |
| 2x 24W | LED | Duet | 600mm | 368 | LED | 24 | - | + | | 377 |
| 2x 31W | LED | Duet | 600mm | 368 | LED | 31 | - | + | | 377 |

| LOR | LED W (Total Power W) | | | | |
|----------------|-----------------------|-----------|-----------|-----------|-----------|
| | 0.81 | 12 (13.2) | 17 (19.7) | 24 (26.4) | 31 (35.0) |
| 3000K (CRI 80) | 1886 lm | 2611 lm | 3784 lm | 4741 lm | |
| 4000K (CRI 80) | 1978 lm | 2738 lm | 3880 lm | 4861 lm | |

Table applies to one LED Light Engine



| LED CRI 90 | | | | | | | | | | |
|------------|------|-------|--------|------|-----|------|------|------|------|------|
| Power | Beam | Mount | Length | Temp | LED | Beam | Temp | Temp | Temp | Temp |
| 12W | LED | Solo | 600mm | 367 | LED | 12 | - | + | | 378 |
| 17W | LED | Solo | 600mm | 367 | LED | 17 | - | + | | 378 |
| 24W | LED | Solo | 600mm | 367 | LED | 24 | - | + | | 378 |
| 31W | LED | Solo | 600mm | 367 | LED | 31 | - | + | | 378 |
| 2x 12W | LED | Duet | 600mm | 369 | LED | 12 | - | + | | 378 |
| 2x 17W | LED | Duet | 600mm | 369 | LED | 17 | - | + | | 378 |
| 2x 24W | LED | Duet | 600mm | 369 | LED | 24 | - | + | | 378 |
| 2x 31W | LED | Duet | 600mm | 369 | LED | 31 | - | + | | 378 |

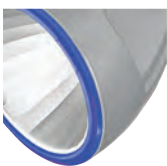
| LOR | LED W (Total Power W) | | | | |
|----------------|-----------------------|-----------|-----------|-----------|-----------|
| | 0.81 | 12 (13.2) | 17 (19.7) | 24 (26.4) | 31 (35.0) |
| 3000K (CRI 90) | 1629 lm | 2255 lm | 3236 lm | 4054 lm | |
| 4000K (CRI 90) | 1767 lm | 2446 lm | 3447 lm | 4318 lm | |

Table applies to one LED Light Engine

Luminescent Halo, Baffle Options



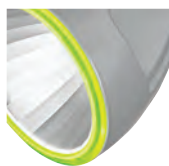
473 1x / 486 2x
Etched Ice



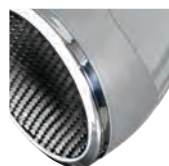
474 1x / 487 2x
Neptune Blue



475 1x / 488 2x
Mars Red



477 1x / 489 2x
Acid Green



478 1x / 490 2x
Anti Glare Baffle

Skylink Aleda®



- Neat integration of Aleda® Adjustable Single point Zhaga Book 3 LED luminaires
- Available in a choice of lumen outputs, delivering up to 4861 lumens
- Efficacies up to 121 lm/W
- CRI 80 and CRI 90 versions
- Neatly integrated smooth and precise pan and tilt adjustment
- Available in Solo and Duet formats
- Choice of optical lenses, Medium as standard
- UGR <22
- Life expectancy in excess of 60,000 hours (L80)

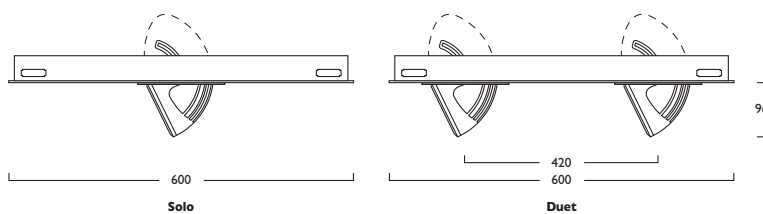


■ SF Flush Fascia ■ SR Recessed fascia

- A Integral Driver
- F Digital Dim
- J Switch Dim
- S DALI Dim

■ 3 Warm (3000K) ■ 4 Neutral (4000K)

■ 1 White (RAL 9010) ■ 2 Urban Graphite (RAL 7046) ■ 3 Black (RAL 9005)



230V 50Hz IP20 64° 350° Solo 2.7 kg Duet 3.7 kg

| Reflector | | ▲ CRI 80 | ▲ CRI 90 |
|-----------|----------------|----------|----------|
| 384 | 1x Narrow Beam | 379 | 380 |
| 385 | 1x Wide Beam | 381 | 382 |
| 480 | 2x Narrow Beam | 379 | 380 |
| 481 | 2x Wide Beam | 381 | 382 |

Luminescent Halo, Baffle Options *Shown*

- 371 L2 Ribbon Connector
- 372 L3 Ribbon Connector





Skylink Mounting Frames

Bezel

| Size | Bezel | SL | X | SMF | 000 | Color |
|--------|------------|-------|---|--------|-----|-------|
| 300mm | Bezel | SL231 | X | SMF000 | --- | --- |
| 600mm | Bezel | SL232 | X | SMF000 | --- | --- |
| 900mm | Bezel | SL233 | X | SMF000 | --- | --- |
| 1200mm | Bezel | SL234 | X | SMF000 | --- | --- |
| 1500mm | Bezel | SL235 | X | SMF000 | --- | --- |
| 1800mm | Bezel | SL200 | X | SMF000 | --- | --- |
| 300mm | Bezel Free | SL236 | X | SMF000 | --- | --- |
| 600mm | Bezel Free | SL237 | X | SMF000 | --- | --- |
| 900mm | Bezel Free | SL238 | X | SMF000 | --- | --- |
| 1200mm | Bezel Free | SL239 | X | SMF000 | --- | --- |
| 1500mm | Bezel Free | SL240 | X | SMF000 | --- | --- |
| 1800mm | Bezel Free | SL213 | X | SMF000 | --- | --- |

End Cap

| End Cap | Bezel | SL | X | CAP | 000 | Color |
|---------|------------|-------|---|--------|-----|-------|
| End Cap | Bezel | SL214 | X | CAP000 | --- | --- |
| End Cap | Bezel Free | SL212 | X | CAP000 | --- | --- |

Power Connectors

| Power Connector | SL | A | SRC | 016 | Color |
|-------------------|-------|---|--------|-----|-------|
| Ribbon Cable | SL230 | A | SRC016 | --- | --- |
| Mains Connector | SL228 | A | SMC016 | --- | --- |
| Dimming Connector | SL229 | A | SDC016 | --- | --- |



Recessed Fascia - prefix **SR**

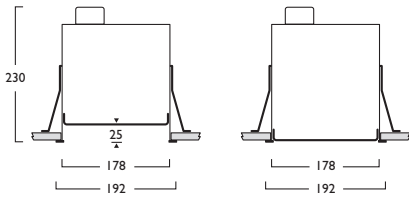


Flush Fascia - prefix **SF**

Bezel Mounting Frame

(shown with Aleda Fascia for illustration only)

Bezel



Recessed Fascia - prefix **SR**

Flush Fascia - prefix **SF**

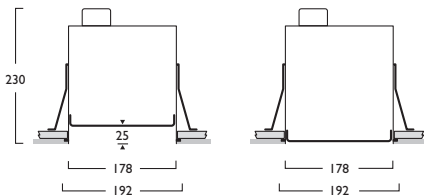


Recessed Fascia - prefix **SR**



Flush Fascia - prefix **SF**

Bezel Free



Recessed Fascia - prefix **SR**

Flush Fascia - prefix **SF**

Maximum ceiling 35mm

Bezel/Bezel Free

IP 20 184mm x Length 3.9 kg Max

End Cap

IP 20 0.8 kg



End Caps (Bezel and Bezel Free)



Ribbon Cable, Mains and Dimming Connectors

A No Control Gear 230V
X Non Electrical Component

1 White (RAL 9010) **2** Urban Graphite (RAL 7046) **3** Black (RAL 9005)

Skylink Spacer Fascias

Spacers

| Mechanical | | | | | | |
|-------------------|--------|-----|---|--------|---|---|
| Spacer | 150mm | 201 | A | SSM000 | — | — |
| Spacer | 300mm | 202 | A | SSM000 | — | — |
| Spacer | 600mm | 203 | A | SSM000 | — | — |
| Spacer | 900mm | 226 | A | SSM000 | — | — |
| Spacer | 1200mm | 204 | A | SSM000 | — | — |
| Spacer | 1500mm | 205 | A | SSM000 | — | — |



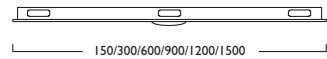
| 230V | 150mm | 300mm | 600mm | 900mm | 1200mm | 1500mm |
|------|--------|--------|--------|--------|--------|--------|
| 50Hz | 0.4 kg | 0.7 kg | 1.7 kg | 2.9 kg | 3.8 kg | 4.8 kg |



PIR Spacers

| Mechanical | | | | | | |
|-------------------|--------|-----|---|--------|---|---|
| PIR Spacer | 150mm | 220 | A | PIR000 | — | + |
| PIR Spacer | 300mm | 221 | A | PIR000 | — | + |
| PIR Spacer | 600mm | 222 | A | PIR000 | — | + |
| PIR Spacer | 900mm | 223 | A | PIR000 | — | + |
| PIR Spacer | 1200mm | 224 | A | PIR000 | — | + |
| PIR Spacer | 1500mm | 225 | A | PIR000 | — | + |

PIR Fascia only suitable for use with Luminaires with Gear Types F, G



| 230V | 150mm | 300mm | 600mm | 900mm | 1200mm | 1500mm |
|------|--------|--------|--------|--------|--------|--------|
| 50Hz | 0.5 kg | 0.8 kg | 1.8 kg | 3.0 kg | 3.9 kg | 4.9 kg |



- SF Flush Fascia SR Recessed fascia
- A No Control Gear 230V
- 1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)
- 371 L2 Ribbon Connector
- 372 L3 Ribbon Connector



City Healthcare Partnership

A stunning, contemporary commercial head office showcasing the design flair of innovative Hacer luminaires.



Hacel[®]
Fluent in Lighting

SkyWay

SkyWay

| | |
|-----------------------------------|------------|
| Aleda ® Adjustable Modules | 162 |
| Midi Modules | 167 |
| Direct Modules | 168 |
| Indirect Modules | 168 |
| Spacer Modules | 169 |
| Directional Modules | 169 |
| Accessories | 169 |

Hacel®
Fluent in Lighting



SkyWay

The clean crisp linear geometry of the unique suspended Hacer SkyWay LED Modular System is eminently suited to offer ambient and accent illumination combined with form and function to Retail, Commercial and Architectural environments.

SkyWay Aleda® Adjustable Modules

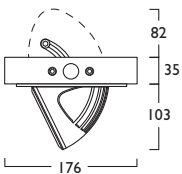
800mm | 1200mm, & 1600mm

| LED CRI 80/90 | SW | LED | 12 | 17 | 24 | 31 | + | - | CRI 80 | CRI 90 |
|---------------|----|-----|----|----|----|----|---|---|--------|--------|
| 12W LED | SW | LED | 12 | - | - | - | + | - | 377 | 378 |
| 17W LED | SW | LED | - | 17 | - | - | + | - | 377 | 378 |
| 24W LED | SW | LED | - | - | 24 | - | + | - | 377 | 378 |
| 31W LED | SW | LED | - | - | - | 31 | + | - | 377 | 378 |

| | Module Length | | |
|----------------------|---------------|--------|--------|
| | 800mm | 1200mm | 1600mm |
| Solo (CRI 80) | 062 | 066 | 070 |
| (CRI 90) | 063 | 067 | 071 |
| Duet (CRI 80) | 064 | 068 | 072 |
| (CRI 90) | 065 | 069 | 073 |
| Trio (CRI 80) | - | - | 074 |
| (CRI 90) | - | - | 075 |

| LOR | LED W (Total Power W) | | | |
|-----------------------|-----------------------|-----------|-----------|-----------|
| | 0.81 | 12 (13.2) | 17 (19.7) | 24 (26.4) |
| 3000K (CRI 80) | 1886 lm | 2611 lm | 3784 lm | 4741 lm |
| 4000K (CRI 80) | 1978 lm | 2738 lm | 3880 lm | 4861 lm |
| 3000K (CRI 90) | 1629 lm | 2255 lm | 3236 lm | 4054 lm |
| 4000K (CRI 90) | 1767 lm | 2446 lm | 3447 lm | 4318 lm |

Table applies to one LED Light Engine



230V 50Hz **IP** 20 64° 350° MAX 800mm 1200mm 1600mm 6.0 kg 8.0 kg 11.0 kg



Modules: Solo, Duet & Trio

- A** Integral Driver
- F** Digital Dim
- J** Switch Dim
- S** DALI Dim

3 Warm (3000K) **4** Neutral (4000K)

1 White (RAL 9010) **2** Urban Graphite (RAL 7046) **3** Black (RAL 9005)

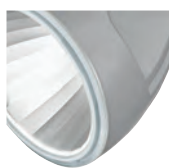
| Reflector | CRI | |
|---------------------------|-----|-----|
| | 80 | 90 |
| 384 1x Narrow Beam | 379 | 380 |
| 385 1x Wide Beam | 381 | 382 |
| 480 2x Narrow Beam | 379 | 380 |
| 481 2x Wide Beam | 381 | 382 |
| 482 3x Narrow Beam | 379 | 380 |
| 483 3x Wide Beam | 381 | 382 |

Luminescent Halo, Baffle Options Shown

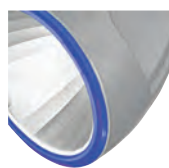
- High quality Aleda® adjustable luminaires cleanly integrate into the SkyWay system
- Zhaga Book 3 LED single point light source
- Available in a choice of lumen outputs, delivering up to 4861 lumens
- Efficacies up to 121 lm/W
- Smooth and precise pan and tilt adjustment
- CRI 80 and CRI 90 versions
- Medium beam reflector as standard, UGR <22
- Life expectancy in excess of 60,000 hours (L80)
- Colour stability within 3 MacAdams
- Solo, Duet and Trio formats
- Seven wire 16A harness with pushfit terminals fitted as standard to every module



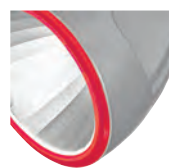
■ Luminescent Halo, Baffle Options



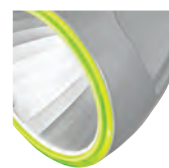
473 1x / 486 2x / 491 3x
Etched Ice



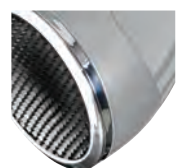
474 1x / 487 2x / 492 3x
Neptune Blue



475 1x / 488 2x / 493 3x
Mars Red



477 1x / 489 2x / 494 3x
Acid Green



478 1x / 490 2x / 495 3x
Anti Glare Baffle

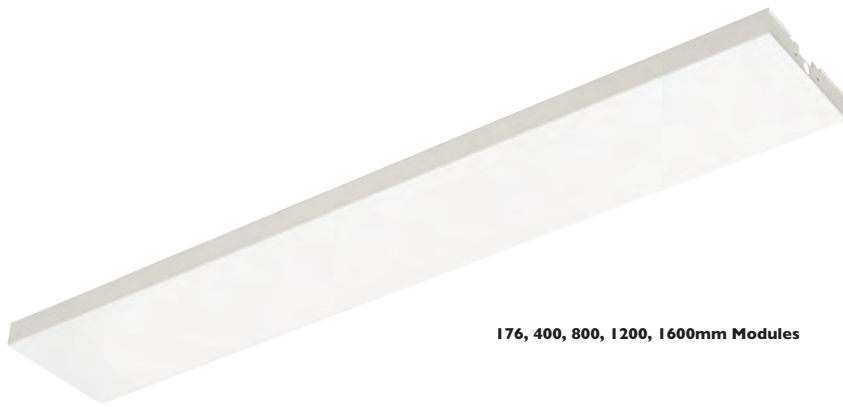






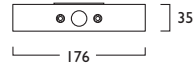
- Commercial quality Midi LED downlighter integrated into SkyWay modules
- Precision die cast and injection moulded construction
- Available in a choice of lumen outputs, delivering up to 2738 lumens
- Efficacies up to 134 lm/W
- Single point Zhaga Book 3 LED (12W, 17W)
- Life expectancy in excess of 60,000 hours (L80)
- Colour stability within 3 MacAdams
- Available in 800, 1200 and 1600mm lengths
- Seven wire 16A harness with pushfit terminals fitted as standard to every module

SkyWay Spacers

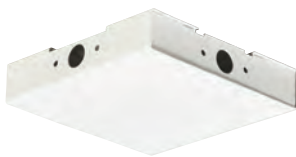


176, 400, 800, 1200, 1600mm Modules

| Modules | | | | | |
|---------------|--------|-------|-------|---|--------|
| Spacer Module | 176mm | 1.0kg | SW330 | A | SSM000 |
| Spacer Module | 400mm | 2.0kg | SW331 | A | SSM000 |
| Spacer Module | 800mm | 4.0kg | SW332 | A | SSM000 |
| Spacer Module | 1200mm | 6.0kg | SW333 | A | SSM000 |
| Spacer Module | 1600mm | 8.0kg | SW334 | A | SSM000 |



SkyWay Directional

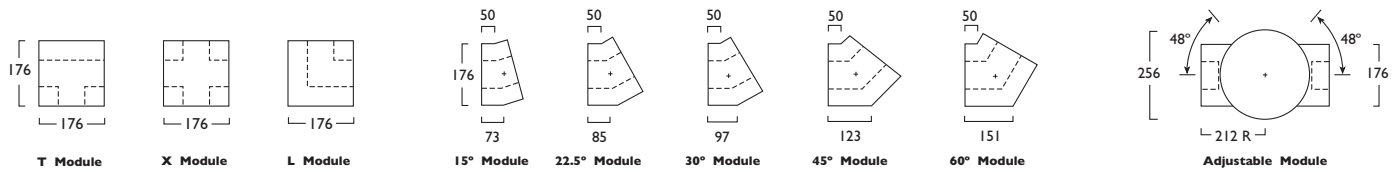


T, X, L Modules



15°, 22.5°, 30°, 45°, 60° Modules

| Modules | | | | | |
|-------------------|-------|-------|---|--------|---|
| T Module | 1.0kg | SW343 | A | SMA000 | — |
| X Module | 1.0kg | SW344 | A | SMA000 | — |
| L Module | 1.0kg | SW345 | A | SMA000 | — |
| 15° Module | 0.9kg | SW355 | A | SMA000 | — |
| 22.5° Module | 0.9kg | SW346 | A | SMA000 | — |
| 30° Module | 0.9kg | SW347 | A | SMA000 | — |
| 45° Module | 1.0kg | SW348 | A | SMA000 | — |
| 60° Module | 1.0kg | SW349 | A | SMA000 | — |
| Adjustable Module | 2.5kg | SW351 | A | NMA000 | — |

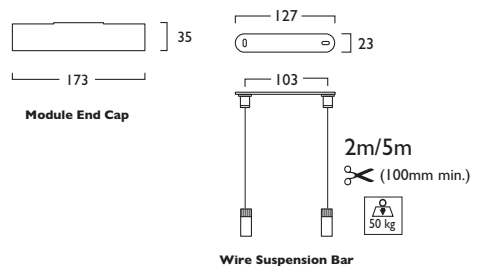


SkyWay Accessories



Adjustable Module

| Components | | | | | |
|------------------------|-------|-------|---|--------|---|
| Module End Cap | 0.2kg | SW350 | X | SMA000 | — |
| 2m Wire suspension kit | 0.2kg | SW360 | X | WSK000 | — |
| 5m Wire suspension kit | 0.2kg | SW361 | X | WSK000 | — |



- A** Integral LED Driver
- X** Non Electrical Component
- 1** White (RAL 9010) **2** Urban Graphite (RAL 7046) **3** Black (RAL 9005)

University Science Complex

Featuring class leading luminaires by Hacer throughout, the extensively refurbished Sciences Complex offers one of the best learning experiences for those studying sciences.






The Sciences Complex

Hacel[®]
Fluent in Lighting

Linear Light4

| | |
|--|-----|
| Opal Modules | 179 |
| Aleda ® Modules | 182 |
| Spacer Modules | 185 |
| Connectors, End Cap and PIR Spacers | 185 |



The clean lines of the Linear Light4 System enable a diverse range of ambient, accent and general lighting scenarios to be created. The system is manufactured from precision extruded aluminium and is designed to give a co-ordinated and contemporary appearance.

Linear Light4



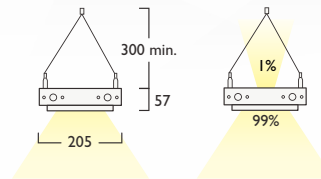
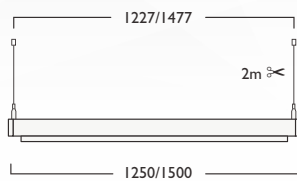
4



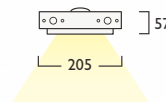
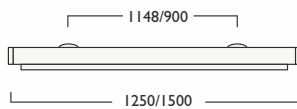
Link

Suspended & Surface

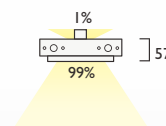
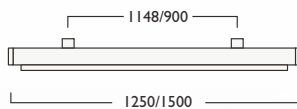
- Exciting and imaginative surface or suspended horizontal system
- Allows a diverse range of lighting scenarios to be created
- Neatly integrates general, accent and ambient lighting
- Engineering excellence with contemporary styling
- Branded components ensure maximum level of performance and reliability
- Suspended Modules are supplied with 2x 2m Twin Wire Suspensions



Link Suspended + Light Spill



Link Surface



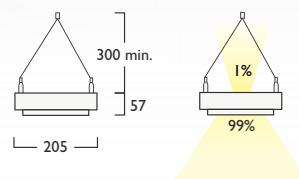
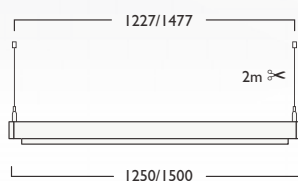
Link + Light Spill Surface

Solo

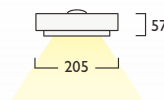
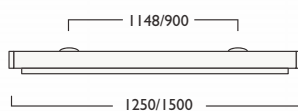


Suspended & Surface

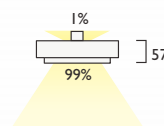
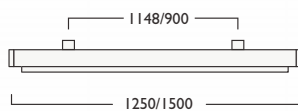
- Designed to complement Link Modules
- Slim, sleek design enhanced by choice of surface and suspended options
- Encompasses design, performance and quality engineering
- Available in a choice of powder coated finishes including corporate colours to order
- Suspended Modules are supplied with 2x 2m Twin Wire Suspensions



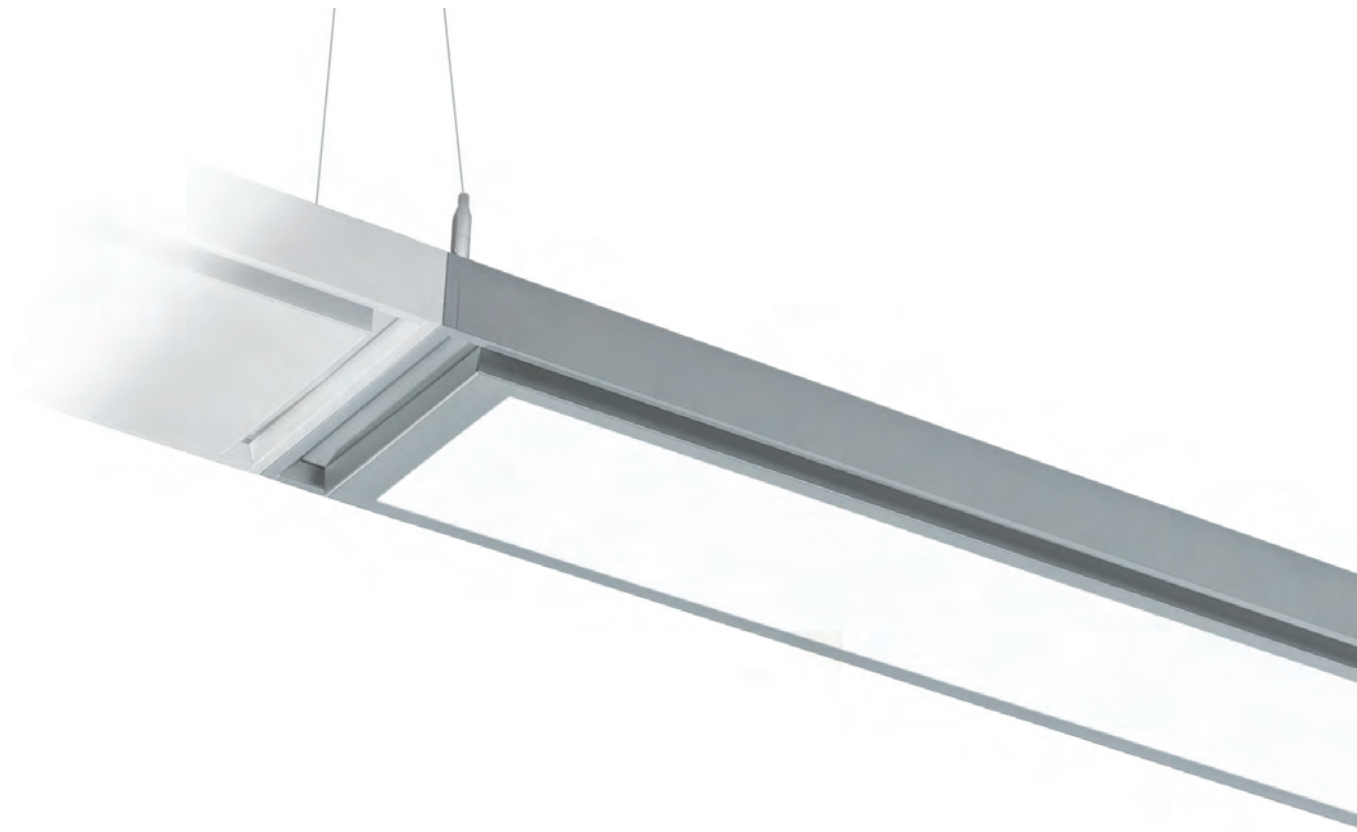
Solo Suspended + Light Spill



Solo Surface



Solo + Light Spill Surface



Linear Light4 Opal

Link & Solo Modules

| LED | | Length | | LED W | | LED W (Total Power W) | | Efficacy | |
|-----|-----|--------|-----|-------|----|-----------------------|-----|----------|--|
| 25W | LED | 1250mm | 050 | LED | 25 | + | 383 | 384 | |
| 46W | LED | 1250mm | 050 | LED | 46 | + | 383 | 384 | |

| LOR | LED W (Total Power W) | |
|----------------|-----------------------|-----------|
| 0.86 | 25 (26.7) | 46 (49.2) |
| 3000K (CRI 80) | 3752 lm | 6000 lm |
| 4000K (CRI 80) | 3868 lm | 6180 lm |

| | | | | |
|--------------|----------|--------------------------|--------------------------|--------|
| 230V 50Hz | IP 20 | LA, LB, LD, LE 1227mm | LC, LG, LF, LH 1148mm | 8.9 kg |
|--------------|----------|--------------------------|--------------------------|--------|



- Contemporary LED Module with high quality Opal polycarbonate diffuser
- Available in a choice of lumen outputs, delivering up to 6180 lumens
- Efficacies up to 124 lm/W
- Zhaga Book 7 LED
- Outstanding LOR of 0.86, light distribution for general lighting applications
- Diffuser is TP(b) rated
- Life expectancy in excess of 55,000 hours (L80)
- Colour stability within 3 MacAdams
- 2x 2m twin suspension wires and chrome clutches for ease of adjustment

- LA Link Suspended
- LB Link + Light Spill Suspended
- LC Link Surface
- LG Link + Light Spill Surface
- LD Solo Suspended
- LE Solo + Light Spill Suspended
- LF Solo Surface
- LH Solo + Light Spill Surface

Gear types F & G must be operated through a DSI p293

- A Integral Driver
- E Emergency
- F Digital Dim
- G Digital Dim + Emergency
- J Switch Dim
- K Switch Dim + Emergency
- S DALI Dim
- T DALI Dim + Emergency
- C DALI Dim + DALI Emergency

3 Warm (3000K) 4 Neutral (4000K)

1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

144 2x 5m Twin suspensions (wires only)





Linear Light4 Aleda® Adjustable

Link & Solo Modules

| | | ☀ | | ☀ | | ☀ | | ☀ | | ☀ | | ☀ | |
|-------------------|-----|--------|-----|-----|----|---|-----|---|--|---|--|---|--|
| | | ☀ | | ☀ | | ☀ | | ☀ | | ☀ | | ☀ | |
| LED CRI 80 | | | | | | | | | | | | | |
| 2x 12W | LED | 1500mm | 046 | LED | 12 | + | 377 | | | | | | |
| 2x 17W | LED | 1500mm | 046 | LED | 17 | + | 377 | | | | | | |
| 2x 24W | LED | 1500mm | 046 | LED | 24 | + | 377 | | | | | | |
| 2x 31W | LED | 1500mm | 046 | LED | 31 | + | 377 | | | | | | |
| LED CRI 90 | | | | | | | | | | | | | |
| 3x 12W | LED | 1500mm | 048 | LED | 12 | + | 377 | | | | | | |
| 3x 17W | LED | 1500mm | 048 | LED | 17 | + | 377 | | | | | | |
| 3x 24W | LED | 1500mm | 048 | LED | 24 | + | 377 | | | | | | |
| 3x 31W | LED | 1500mm | 048 | LED | 31 | + | 377 | | | | | | |

| LOR | LED W (Total Power W) | | | | |
|----------------|-----------------------|-----------|-----------|-----------|-----------|
| | 0.81 | 12 (13.2) | 17 (19.7) | 24 (26.4) | 31 (35.0) |
| 3000K (CRI 80) | 1886 lm | 2611 lm | 3784 lm | 4741 lm | |
| 4000K (CRI 80) | 1978 lm | 2738 lm | 3880 lm | 4861 lm | |

Table applies to one LED Light Engine

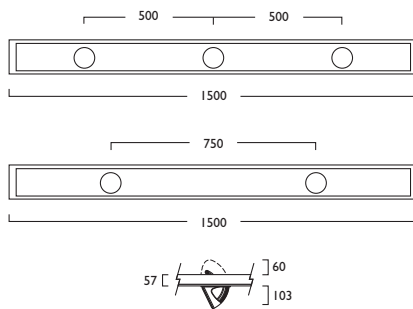
230V 50Hz IP 20 1477mm 11.0 kg



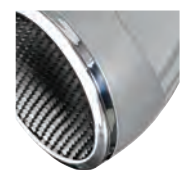
| | | ☀ | | ☀ | | ☀ | | ☀ | | ☀ | | ☀ | |
|-------------------|-----|--------|-----|-----|----|---|-----|---|--|---|--|---|--|
| | | ☀ | | ☀ | | ☀ | | ☀ | | ☀ | | ☀ | |
| LED CRI 90 | | | | | | | | | | | | | |
| 2x 12W | LED | 1500mm | 047 | LED | 12 | + | 378 | | | | | | |
| 2x 17W | LED | 1500mm | 047 | LED | 17 | + | 378 | | | | | | |
| 2x 24W | LED | 1500mm | 047 | LED | 24 | + | 378 | | | | | | |
| 2x 31W | LED | 1500mm | 047 | LED | 31 | + | 378 | | | | | | |
| LED CRI 90 | | | | | | | | | | | | | |
| 3x 12W | LED | 1500mm | 049 | LED | 12 | + | 378 | | | | | | |
| 3x 17W | LED | 1500mm | 049 | LED | 17 | + | 378 | | | | | | |
| 3x 24W | LED | 1500mm | 049 | LED | 24 | + | 378 | | | | | | |
| 3x 31W | LED | 1500mm | 049 | LED | 31 | + | 378 | | | | | | |

| LOR | LED W (Total Power W) | | | | |
|----------------|-----------------------|-----------|-----------|-----------|-----------|
| | 0.81 | 12 (13.2) | 17 (19.7) | 24 (26.4) | 31 (35.0) |
| 3000K (CRI 90) | 1629 lm | 2255 lm | 3236 lm | 4054 lm | |
| 4000K (CRI 90) | 1767 lm | 2446 lm | 3447 lm | 4318 lm | |

Table applies to one LED Light Engine



Baffle Option



490 2x / 495 3x Anti Glare Baffle



- Stylish Aleda® LED in Duet or Trio format neatly integrated into LL4 Module
- Available in a choice of lumen outputs, delivering up to 4861 lumens
- Efficacies up to 121 lm/W
- CRI 80 and CRI 90 versions
- Single point Zhaga Book 3 LED
- Life expectancy in excess of 60,000 hours (L80)
- Luminaires feature smooth and precise pan and tilt adjustment
- Link and Solo Modules available
- 2x 2m twin Suspension Wires and Chrome Clutches for ease of adjustment

■ **LA** Link Suspended **LD** Solo Suspended

Gear type F must be operated through a DSI p293

A Integral Driver

F Digital Dim

J Switch Dim

S DALI Dim

■ **3** Warm (3000K) **4** Neutral (4000K)

■ **1** White (RAL 9010) **2** Urban Graphite (RAL 7046) **3** Black (RAL 9005)

| Reflector | ▲ ▲ | |
|---------------------------|--------|--------|
| | CRI 80 | CRI 90 |
| 480 2x Narrow Beam | 379 | 380 |
| 481 2x Wide Beam | 381 | 382 |
| 482 3x Narrow Beam | 379 | 380 |
| 483 3x Wide Beam | 381 | 382 |

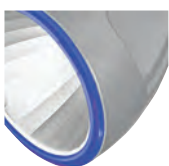
144 2x 5m Twin suspensions (wires only)

Luminescent Halo, Baffle Options Shown

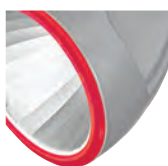
■ Luminescent Halo Options



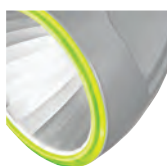
486 2x / **491** 3x
Etched Ice



487 2x / **492** 3x
Neptune Blue



488 2x / **493** 3x
Mars Red



489 2x / **494** 3x
Acid Green



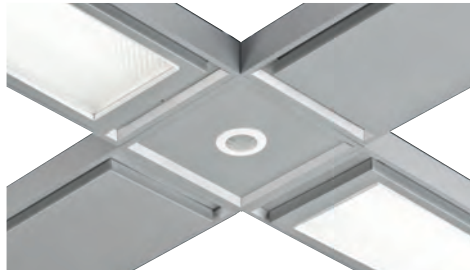
Linear Light⁴ Spacer

Link Modules

| | | | | | |
|----------------------------------|--------|--------|----------|---|---|
| Spacer (inc. seven wire harness) | 205mm | LL 027 | A SPA016 | — | — |
| Spacer (inc. seven wire harness) | 600mm | 640 | A SPA016 | — | + |
| Spacer (inc. seven wire harness) | 750mm | 028 | A SPA016 | — | + |
| Spacer (inc. seven wire harness) | 1250mm | 660 | A SPA016 | — | + |
| Spacer (inc. seven wire harness) | 1500mm | 029 | A SPA016 | — | + |

| | | | | | | | |
|--------------|-----------------|-----|---------------|-------------------|-------------------|--------------------|-------------------|
| 230V 50Hz | IP 20 | ⊕ ⊕ | LL027 | LA640 577mm | LA028 727mm | LA660 1227mm | LA029 1477mm |
| | | | | LC/LG640 300mm | LC/LG028 450mm | LC/LG660 1148mm | LC/LG029 900mm |
| | | | 027 1.4 kg | 640 3.5 kg | 028 4.4 kg | 660 6.7 kg | 029 8.0 kg |

Alternative sizes are available on request



An inbuilt PIR Detector provides individual control via various operating modes to improve energy efficiency.

PIR Spacer

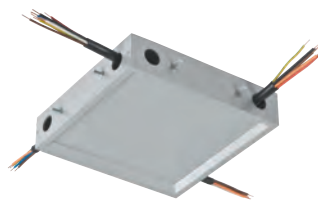
| | | | | | |
|----------------------------------|--------|--------|----------|---|---|
| Spacer (inc. seven wire harness) | 205mm | LL 036 | A PIR016 | — | — |
| Spacer (inc. seven wire harness) | 600mm | 708 | A PIR016 | — | + |
| Spacer (inc. seven wire harness) | 750mm | 037 | A PIR016 | — | + |
| Spacer (inc. seven wire harness) | 1250mm | 717 | A PIR016 | — | + |
| Spacer (inc. seven wire harness) | 1500mm | 038 | A PIR016 | — | + |

PIR Spacer only suitable for use with Luminaires with Gear Types F, G

| | | | | | | | |
|--------------|-----------------|-----|---------------|-------------------|-------------------|--------------------|-------------------|
| 230V 50Hz | IP 20 | ⊕ ⊕ | LL036 | LA708 577mm | LA037 727mm | LA717 1227mm | LA038 1477mm |
| | | | | LC/LG708 300mm | LC/LG037 450mm | LC/LG717 1148mm | LC/LG038 900mm |
| | | | 027 1.5 kg | 640 3.6 kg | 028 4.5 kg | 660 6.8 kg | 029 8.1 kg |



Module End Cap



L, T & X Connectors

Connectors/End Cap

| | | | | |
|-------------|-------|----------|---|---|
| L Connector | LL032 | A CON016 | — | — |
| T Connector | LL033 | A CON016 | — | — |
| X Connector | LL034 | A CON016 | — | — |

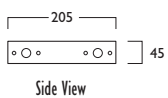
| | | | | |
|----------------|-------|----------|---|---|
| Module End Cap | LL035 | A CAP000 | — | — |
|----------------|-------|----------|---|---|

PIR Connectors

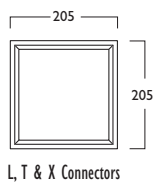
| | | | | |
|-----------------|-------|----------|---|---|
| L PIR Connector | LL039 | A PIR016 | — | — |
| T PIR Connector | LL040 | A PIR016 | — | — |
| X PIR Connector | LL041 | A PIR016 | — | — |

PIR Connector only suitable for use with Luminaires with Gear Types F, G

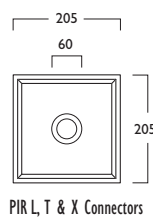
| | | | |
|--------------|-----------------|---|--------|
| 230V 50Hz | IP 20 | ⊕ | 1.5 kg |
|--------------|-----------------|---|--------|



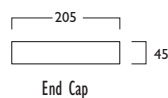
Side View



L, T & X Connectors



PIR L, T & X Connectors



End Cap

- **LA** Link Suspended **LC** Link Surface **LG** Link + Light Spill Surface
- **A** No Control Gear 230V
- **1** White (RAL 9010) **2** Urban Graphite (RAL 7046) **3** Black (RAL 9005)
- **I44** 2x 5m Twin suspensions (wires only)

Charmans Automotive

A unique and prestigious showroom supplying classic, luxury and high performance vehicles; Charmans Automotive chose Hacer to provide a host of class leading luminaires for this exclusive project.





NUI 61

CHARMANS

Hacel[®]
Fluent in Lighting

Network

| | |
|--|------------|
| Network Introduction | 193 |
| Soledo ® Modules | 194 |
| Aleda ® Modules | 199 |
| Opal Modules | 202 |
| Spacers Modules | 202 |
| Directional Modules, Coupler and End Cap | 203 |
| Suspension Kit | 203 |

Network Structural System

A distinctive and versatile high quality suspended Structural System. Integrated luminaires create imaginative general, ambient and accent lighting applications, eminently suited to both large and small installations.





Network Structural System

Innovative

- Stylish, exciting Structural Lighting System
- Network creates geometric and abstract visual compositions
- Cleanly encompasses both ambient and accent lighting requirements

Installation

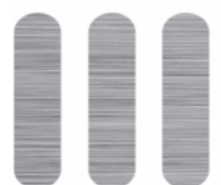
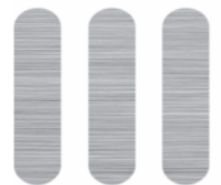
- High quality construction designed for ease of installation
- Network structure features returned edge profile for rigidity and cable concealment
- Each luminaire is pre-wired to its own terminal point
- Twin single fixing suspension wires enable adjustable mounting at various points on the system

Interconnection Wiring System

- Luminaires can be specified with Interconnecting Wiring System
- Offers quick and efficient installation
- Reduces cost and offers compliance, electrical safety and simplified maintenance

Image

- Luminaires and accessories are co-ordinated to create a total image
- To create individuality, corporate colours are available to special order to further enhance brand appeal



Network Soledo®

600mm, L, T & X Modules



LED

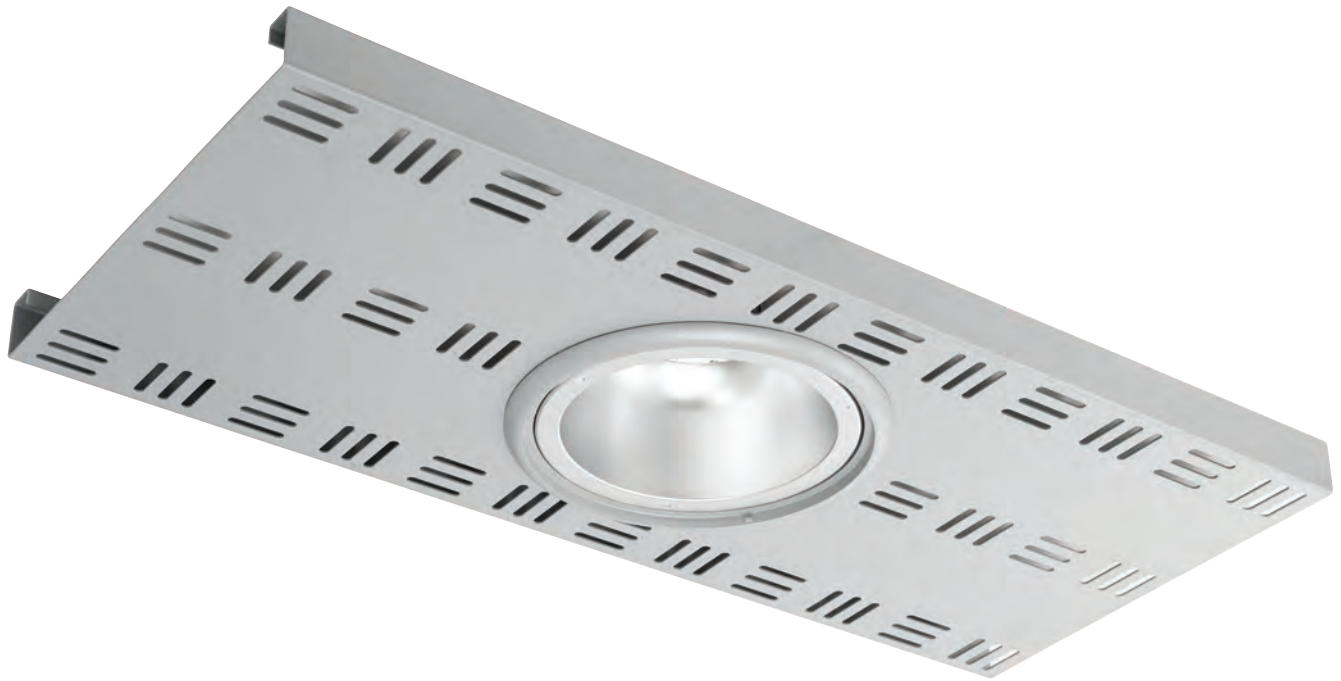
| | | | | | | |
|-----|-----|----|-----|----|---|-----|
| 8W | LED | NW | LED | 08 | + | 370 |
| 12W | LED | NW | LED | 12 | + | 370 |
| 17W | LED | NW | LED | 17 | + | 370 |
| 25W | LED | NW | LED | 25 | + | 370 |
| 33W | LED | NW | LED | 33 | + | 435 |

| 600mm | Modules | | | |
|-------------|---------|-----|-----|-----|
| | L | T | X | |
| NW (CRI 80) | 244 | 141 | 142 | 143 |

| LOR | LED W (Total Power W) | | | |
|----------------|-----------------------|-----------|-----------|-----------|
| 0.97 | 8 (10.0) | 12 (13.8) | 17 (19.4) | 25 (27.7) |
| 3000K (CRI 80) | 1000 lm | 1300 lm | 1900 lm | 2775 lm |
| 4000K (CRI 80) | 1100 lm | 1400 lm | 2000 lm | 3000 lm |

| LOR | LED W (Total Power W) |
|----------------|-----------------------|
| 0.80 | 33 (36.5) |
| 3000K (CRI 80) | 4972 lm |
| 4000K (CRI 80) | 5098 lm |

- Exceptional engineering and thermal management
- Available in a choice of lumen outputs, delivering up to 5098 lumens
- Efficacies up to 111 lm/W
- UGR <22 (<19 with anti-glare louvre option)
- Life expectancy (up to 25W) in excess of 50,000 hours (L90)
- Life expectancy (33W) in excess of 57,000 hours (L80)
- Colour stability within 3 MacAdams
- Wide range of options for customisation



600mm, L, T & X Modules

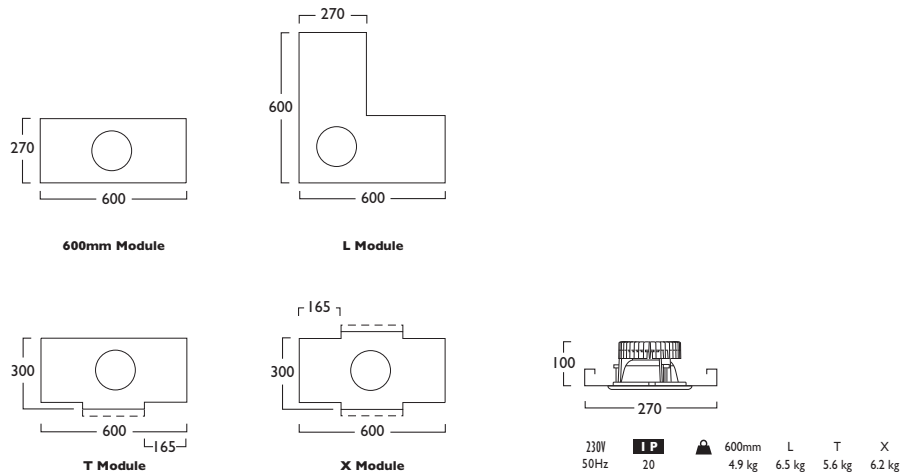
Gear types F & G must be operated through a DSI p293

- A Integral Driver
- E Emergency
- F Digital Dim
- G Digital Dim + Emergency
- J Switch Dim
- K Switch Dim + Emergency
- S DALI Dim
- T DALI Dim + Emergency
- C DALI Dim + DALI Emergency

3 Warm (3000K) 4 Neutral (4000K)

1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

Glass, Polycarbonate, Luminescent Halo,
Reflector, Emergency Glass *Shown opposite*



■ Glass Options



432 Flush Clear (IP44)
434 Flush Clear + Gasket (IP65)



433 Flush Etched (IP44)
435 Flush Etched + Gasket (IP65)



436 Floating Etched



438 Floating Halo Etched

■ Polycarbonate Options



439 Domed Diffuser



440 Flush Diffuser



441 Impact Resistant Cover (IP44)



443 Sculpted Diffuser



444 Sculpted Diffuser + Neptune Blue Insert



446 Sculpted Diffuser + Acid Green Insert



447 Sculpted Diffuser + Mars Red Insert

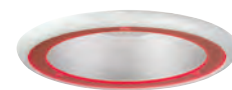
■ Luminescent Halo Options



448 Flush Halo Neptune Blue



450 Flush Halo Acid Green



451 Flush Halo Mars Red



452 Floating Halo Neptune Blue



454 Floating Halo Acid Green



455 Floating Halo Mars Red



442 Cylo Etched Ice



457 Cylo Neptune Blue



459 Cylo Acid Green



460 Cylo Mars Red

■ Reflector Option



246 Anti Glare Louvre (UGR 19) 371
8, 12 & 17W Only

■ Emergency Sign Options



527 Emergency - Left/Right



528 Emergency - Down



529 Emergency - Door



530 Emergency - Forward





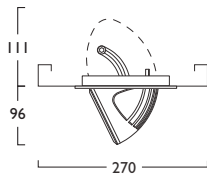
Newcastle University Centre for Professional and Executive Rooms 2020 - 2027



Network Aleda® Adjustable

600mm, L, T & X Modules

- High quality Aleda® luminaire perfectly complements the Network module
- Superior Single point Zhaga Book 3 LED
- Available in a choice of lumen outputs, delivering up to 4861 lumens
- Efficacies up to 121 lm/W
- Smooth and precise pan and tilt adjustment
- Available in CRI 80 and CRI 90
- Life expectancy in excess of 60,000 hours (L80)

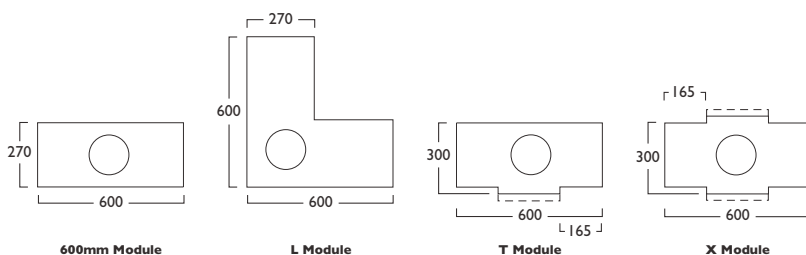
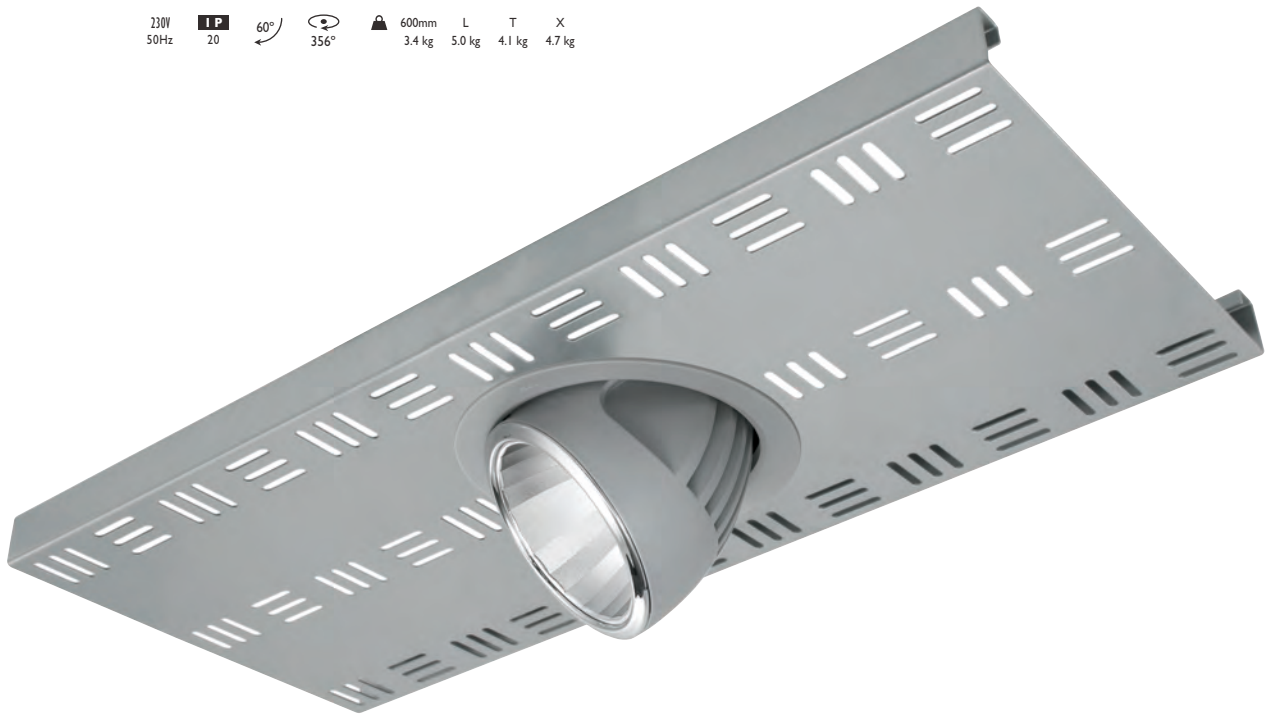


230V 50Hz IP 20 60° 356° 600mm 3.4 kg L 5.0 kg T 4.1 kg X 4.7 kg

| LED CRI 80/90 | | | | | | | | | | | |
|---------------|-----|----|-----|-----|----|-----|---|-----|-----|--------|--------|
| | | | | | | | | | | CRI 80 | CRI 90 |
| 12W | LED | NW | --- | LED | 12 | --- | + | --- | --- | 377 | 378 |
| 17W | LED | NW | --- | LED | 17 | --- | + | --- | --- | 377 | 378 |
| 24W | LED | NW | --- | LED | 24 | --- | + | --- | --- | 377 | 378 |
| 31W | LED | NW | --- | LED | 31 | --- | + | --- | --- | 377 | 378 |

| | Modules | | | |
|-------------|---------|-----|-----|-----|
| | 600mm | L | T | X |
| NW (CRI 80) | 398 | 078 | 080 | 082 |
| NW (CRI 90) | 399 | 079 | 081 | 083 |

| LOR | LED W (Total Power W) | | | |
|----------------|-----------------------|-----------|-----------|-----------|
| | 0.81 | 12 (13.2) | 17 (19.7) | 24 (26.4) |
| 3000K (CRI 80) | 1886 lm | 2611 lm | 3784 lm | 4741 lm |
| 4000K (CRI 80) | 1978 lm | 2738 lm | 3880 lm | 4861 lm |
| 3000K (CRI 90) | 1629 lm | 2255 lm | 3236 lm | 4054 lm |
| 4000K (CRI 90) | 1767 lm | 2446 lm | 3447 lm | 4318 lm |



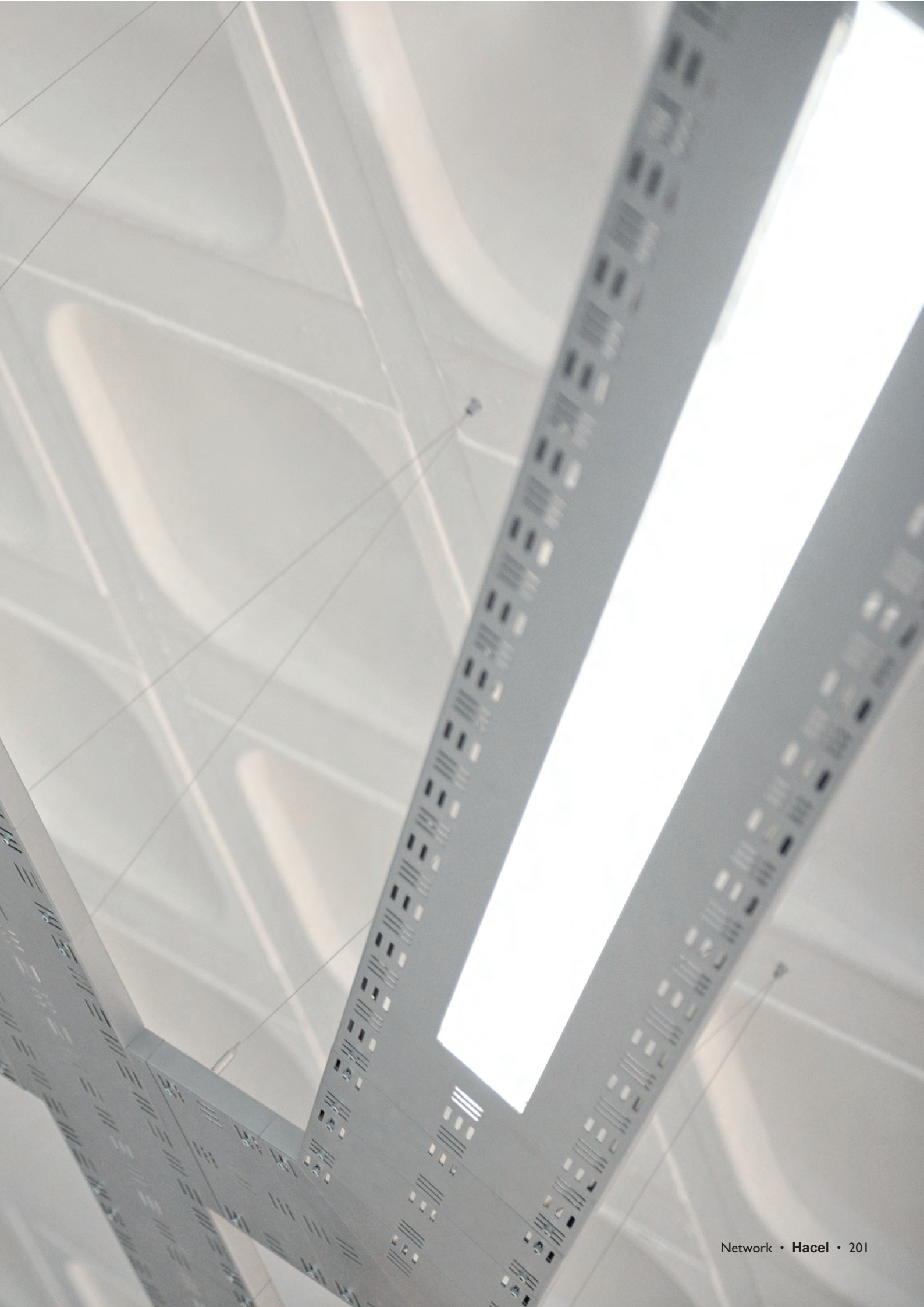
600mm, L, T & X Modules

- A LED Driver
- F Digital Dim
- J Switch Dim
- S DALI Dim
- 3 Warm (3000K) 4 Neutral (4000K)
- I White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

| Reflector | CR 80 | CR 90 |
|-----------------|-------|-------|
| 384 Narrow Beam | 379 | 380 |
| 385 Wide Beam | 381 | 381 |

Aleda Luminescent Halo, Baffle Options Shown on page 57



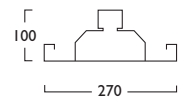
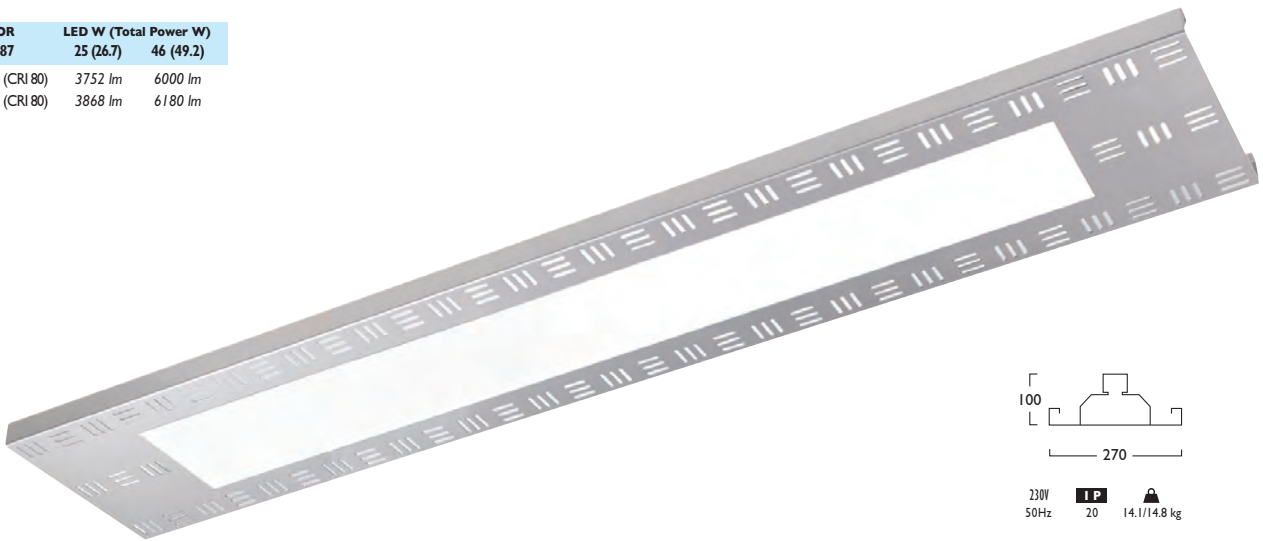


Network Opal

Opal - 1500mm Modules

| | | | | | |
|------------|-------|-----|----|---|-----|
| | | | | | |
| LED | | | | | |
| 25W LED | NW159 | LED | 25 | — | 402 |
| 46W LED | NW159 | LED | 46 | — | 402 |

| LOR | LED W (Total Power W) | |
|----------------|-----------------------|-----------|
| 0.87 | 25 (26.7) | 46 (49.2) |
| 3000K (CRI 80) | 3752 lm | 6000 lm |
| 4000K (CRI 80) | 3868 lm | 6180 lm |



230V
50Hz

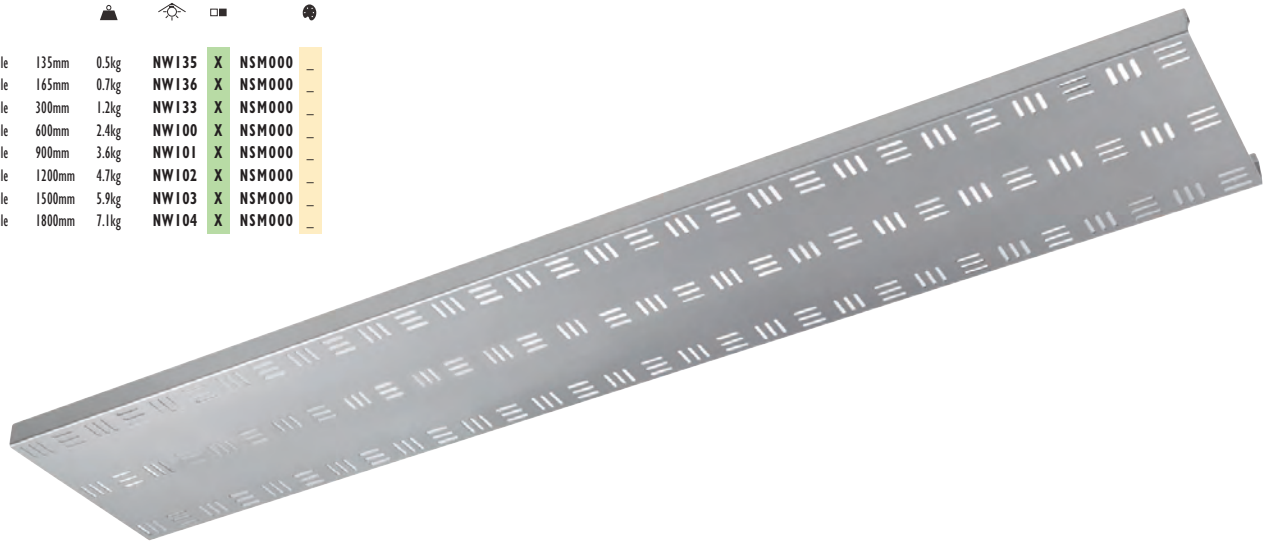
IP 20

14.1/14.8 kg

Network Spacers

Spacers

| | | | | | |
|---------------|--------|-------|-------|---|--------|
| | | | | | |
| Spacer Module | 135mm | 0.5kg | NW135 | X | NSM000 |
| Spacer Module | 165mm | 0.7kg | NW136 | X | NSM000 |
| Spacer Module | 300mm | 1.2kg | NW133 | X | NSM000 |
| Spacer Module | 600mm | 2.4kg | NW100 | X | NSM000 |
| Spacer Module | 900mm | 3.6kg | NW101 | X | NSM000 |
| Spacer Module | 1200mm | 4.7kg | NW102 | X | NSM000 |
| Spacer Module | 1500mm | 5.9kg | NW103 | X | NSM000 |
| Spacer Module | 1800mm | 7.1kg | NW104 | X | NSM000 |



Gear types F & G must be operated through a DSI p293

- A** Integral Driver
- E** Emergency
- F** Digital Dim
- G** Digital Dim + Emergency
- J** Switch Dim
- K** Switch Dim + Emergency
- S** DALI Dim
- T** DALI Dim + Emergency
- C** DALI Dim + DALI Emergency
- X** Non Electrical Component

3 Warm (3000K) 4 Neutral (4000K)

1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

- Opal LED Fascias offer superior uniform light distribution with an exceptional LOR of 0.87
- Zhaga Book 7 LED
- High quality polycarbonate diffuser with wipe clean surface
- Available in a choice of lumen outputs, delivering up to 6180 lumens
- Efficacies up to 126 lm/W
- Life expectancy of 50,000 hours (L70)

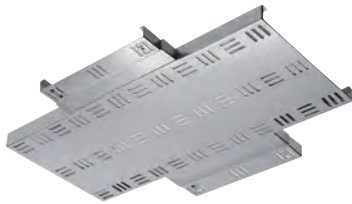
Network Directional Modules, Coupler, End Cap



Coupler



15°, 22.5°, 30°, 45°, 60° Modules



T, X, L Modules



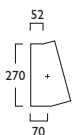
Adjustable Module

Directional Modules

| 15° | 0.6kg | NW130 | X | NMA000 | — |
|------------|-------|-------|---|--------|---|
| 22.5° | 0.8kg | NW110 | X | NMA000 | — |
| 30° | 0.9kg | NW131 | X | NMA000 | — |
| 45° | 1.2kg | NW111 | X | NMA000 | — |
| 60° | 1.5kg | NW132 | X | NMA000 | — |
| L | 4.0kg | NW112 | X | NMA000 | — |
| T | 3.1kg | NW114 | X | NMA000 | — |
| X | 3.7kg | NW116 | X | NMA000 | — |
| Adjustable | 4.1kg | NW137 | X | NMA000 | — |

Coupler; End Cap

| | | | | | | |
|----------------|-------|-------|-------|---|--------|---|
| Module Coupler | 100mm | 0.4kg | NW118 | X | NMC000 | — |
| Module End Cap | | | NW123 | X | NMA000 | — |



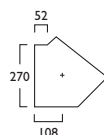
15°



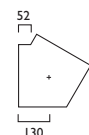
22.5°



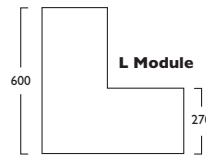
30°



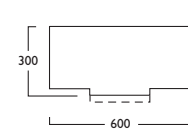
45°



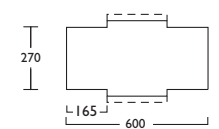
60°



L Module

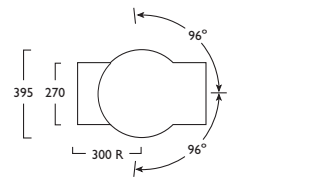


T Module



X Module

A comprehensive range of Directional Modules engineered to the highest standard offer system versatility.

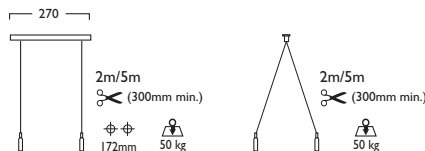


Adjustable Module

Network Suspension Kits

Suspension Kits

| Components | | | | | |
|---------------------------------|--------|-------|---|--------|---|
| 2m Wire Suspension Bar | 0.2 kg | NW712 | X | WSK000 | — |
| 5m Wire Suspension Bar | 0.2 kg | NW713 | X | WSK000 | — |
| 2m Single Point Wire Suspension | 0.2 kg | NW714 | X | WSK000 | 4 |
| 5m Single Point Wire Suspension | 0.2 kg | NW723 | X | WSK000 | 4 |



X Non Electrical Component

1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)
 4 Chrome (NW714, NW723)

The Core

A thriving environment for business and commerce, The Core is a flagship location for Science and Technology and features distinctive Hacer luminaires throughout the facility.





THE CORE

Newcastle University

Central

Hacel[®]
Fluent in Lighting

Wall Lights

| | |
|------------------------------------|------------|
| Solos[®] | 211 |
| Cenaro | 212 |
| Azuma[®] Maxi Solo | 214 |
| Azuma[®] Maxi Duet | 215 |
| Quba Solo | 219 |
| Quba Duet | 219 |
| Linaj 981 | 224 |
| Linaj Link | 224 |
| Linaj 977 | 224 |
| Breeze 632, 633 | 229 |
| Ascension | 230 |
| Geneva 421, 428 | 231 |





Solos[®]

Creativity with Colour

Characterised by its sharp minimalistic design, the Solos[®] embodies both flair and performance. Solos[®] balances a precision injection moulded polycarbonate diffuser with quality long life LED and an extensive range of gear types. Complementary Luminescent Halos in a choice of three invigorating colours offer customisation options.





Solos® Wall Light

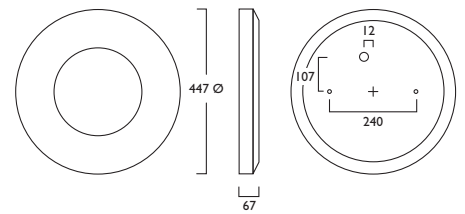


LED
32W LED WL286 LED 32 + 354

LED & MW
32W LED WL329 LED 32 + 354

| LOR | LED W (Total Power W) |
|----------------|-----------------------|
| 0.80 | 32 (35.0) |
| 3000K (CRI 80) | 3438 lm |
| 4000K (CRI 80) | 3779 lm |

Microwave versions not suitable for use with Gear Types J and K



230V
50Hz

IP 20

⊕ ⊕
240mm

⚠
3.5 kg

- High performance LED Circular light offering 50,000 hour life expectancy (L70)
- Available in a choice of lumen outputs, delivering up to 3779 lumens
- Efficacies up to 86 lm/W
- Microwave Control is discreetly concealed behind diffuser
- Slim luminaire projection of only 67mm
- Centre feature and housing available in White, Black or Urban Graphite
- The Microwave Sensor defaults can be modified with the use of the Hand Held Controller or Programmer (contact our Lighting Design Department for advice)
- Complementary Pendant (p241), Recessed (p78) and Surface (p263) versions are available

Luminescent Edge Options



469 Neptune Blue



470 Mars Red



472 Acid Green

Gear types F & G must be operated through a DSI p293

- A** Integral Driver
 - E** Emergency
 - F** Digital Dim
 - G** Digital Dim + Emergency
 - J** Switch Dim (WL286 only)
 - K** Switch Dim + Emergency (WL286 only)
 - S** DALI Dim
 - T** DALI Dim + Emergency
 - C** DALI Dim + DALI Emergency
- 3 Warm (3000K) 4 Neutral (4000K)
- 1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)
- Luminescent Halo Options Shown

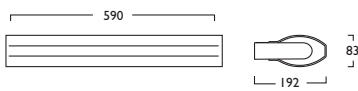
Cenaro



LED

17W LED WL045 LED 17 415

| LOR | LED W (Total Power W) |
|----------------|-----------------------|
| 0.76 | 17 (18.9) |
| 3000K (CRI 80) | 2480 lm |
| 4000K (CRI 80) | 2560 lm |



230V 50Hz IP20 500mm 3.4 kg

- Distinctive sculpted design, incorporating high performance Zhaga book 7 LED
- Available in a choice of lumen outputs, delivering up to 2560 lumens
- Efficacies up to 102 lm/W
- Colour stability within 3 MacAdams
- High quality Opal Polycarbonate Diffuser
- Perfect equal balance of uplighting and downlighting
- Life expectancy in excess of 60,000 hours (L80)
- Versatile control options available

Gear types F & G must be operated through a DSI p293

- A Integral Driver
 - E Emergency
 - F Digital Dim
 - G Digital Dim + Emergency
 - J Switch Dim
 - K Switch Dim + Emergency
 - S DALI Dim
 - T DALI Dim + Emergency
 - C DALI Dim + DALI Emergency
- 3 Warm (3000K) 4 Neutral (4000K)
- 1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)



Azuma® Maxi Solo



LED CRI 80

| | | | | | |
|---------|-------|-----|----|---|-----|
| 5W LED | WL479 | LED | 05 | + | 453 |
| 11W LED | WL479 | LED | 11 | + | 453 |
| 18W LED | WL479 | LED | 18 | + | 453 |

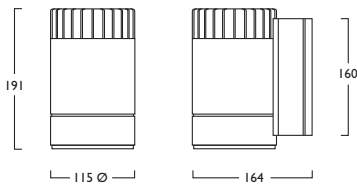
| LOR | LED W (Total Power W) | | |
|----------------|-----------------------|-----------|-----------|
| 0.81 | 5 (6.4) | 11 (12.8) | 18 (20.0) |
| 3000K (CRI 80) | 1022 lm | 1984 lm | 3033 lm |
| 4000K (CRI 80) | 1048 lm | 2034 lm | 3109 lm |



LED CRI 90

| | | | | | |
|---------|-------|-----|----|---|-----|
| 5W LED | WL480 | LED | 05 | + | 454 |
| 11W LED | WL480 | LED | 11 | + | 454 |
| 18W LED | WL480 | LED | 18 | + | 454 |

| LOR | LED W (Total Power W) | | |
|----------------|-----------------------|-----------|-----------|
| 0.81 | 5 (6.4) | 11 (12.8) | 18 (20.0) |
| 3000K (CRI 90) | 874 lm | 1696 lm | 2593 lm |
| 4000K (CRI 90) | 931 lm | 1807 lm | 2762 lm |



230V
50Hz

IP 20

50mm

2.3 kg



Baffle Option



540 Anti Glare Baffle

Gear type F must be operated through a DSI p293

- A** Integral Driver
- F** Digital Dim
- J** Switch Dim
- S** DALI Dim

3 Warm (3000K) **4** Neutral (4000K)

1 White (RAL 9010) **2** Urban Graphite (RAL 7046) **3** Black (RAL 9005)

| Reflector | CRI 80 | CRI 90 |
|------------------------|--------|--------|
| 384 Narrow Beam | 455 | 456 |
| 385 Wide Beam | 457 | 458 |

Baffle Option Shown

- Class leading, high quality LED Wall Light with a clean design and finned detailing
- Available in a choice of lumen outputs, delivering up to 3109 lumens (Solo) and 6218 lumens (Duet)
- Efficacies up to 132 lm/W (Solo) and 135 lm/W (Duet)
- Single point Zhaga Book 3 LED
- Medium beam reflector as standard
- Life expectancy in excess of 52,000 hours (L80)
- Colour stability within 3 MacAdams
- Complementary Power Spots (pages 96) available





Azuma® Maxi Duet



LED CRI 80

| | | | | | |
|---------|-------|-----|----|---|-----|
| 11W LED | WL481 | LED | 11 | + | 453 |
| 22W LED | WL481 | LED | 22 | + | 453 |
| 36W LED | WL481 | LED | 36 | + | 453 |

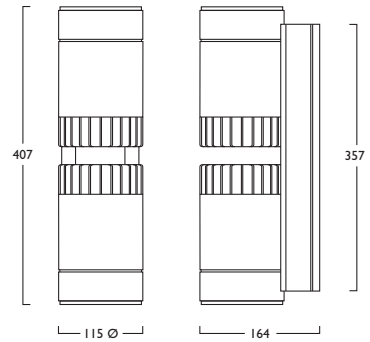
| LOR | LED W (Total Power W) | | |
|----------------|-----------------------|-----------|-----------|
| 0.81 | 11 (12.5) | 22 (25.0) | 36 (40.1) |
| 3000K (CRI 80) | 2044 lm | 3968 lm | 6066 lm |
| 4000K (CRI 80) | 2096 lm | 4068 lm | 6218 lm |



LED CRI 90

| | | | | | |
|---------|-------|-----|----|---|-----|
| 11W LED | WL482 | LED | 11 | + | 454 |
| 22W LED | WL482 | LED | 22 | + | 454 |
| 36W LED | WL482 | LED | 36 | + | 454 |

| LOR | LED W (Total Power W) | | |
|----------------|-----------------------|-----------|-----------|
| 0.81 | 11 (12.5) | 22 (25.0) | 36 (40.1) |
| 3000K (CRI 90) | 1748 lm | 3392 lm | 5186 lm |
| 4000K (CRI 90) | 1862 lm | 3614 lm | 5524 lm |



230V 50Hz IP20 50mm 4.6 kg

Narrow 18° Medium 28° Wide 54°
Standard

Mixed beam widths available, please contact sales

Baffle Option



541 2x Anti Glare Baffle

Gear type F must be operated through a DSI p293

- A Integral Driver
- F Digital Dim
- J Switch Dim
- S DALI Dim

3 Warm (3000K) 4 Neutral (4000K)

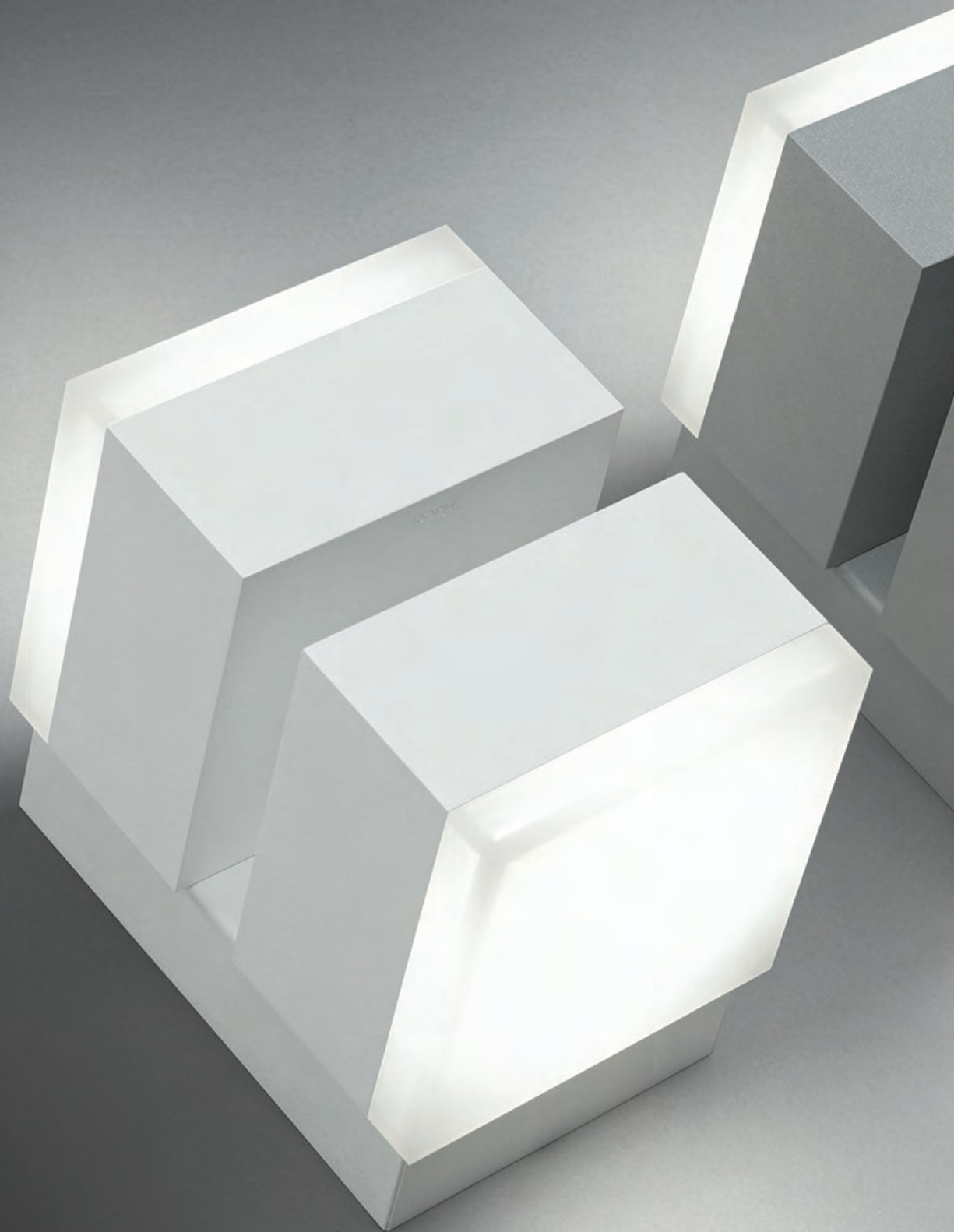
1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

| Reflector | CRI 80 | CRI 90 |
|--------------------|--------|--------|
| 480 2x Narrow Beam | 455 | 456 |
| 481 2x Wide Beam | 457 | 458 |

Baffle Option Shown

Quba

The Quba Wall Lights, sharp design, cutting edge appearance, merges high quality precision engineering with, discreetly etched polycarbonate diffusers. From subtle wall lighting ambience to commercial quality interior and exterior luminance, the versatile Quba Range embodies dynamic design and performance.









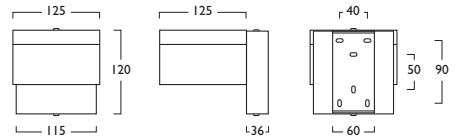
Quba Solo



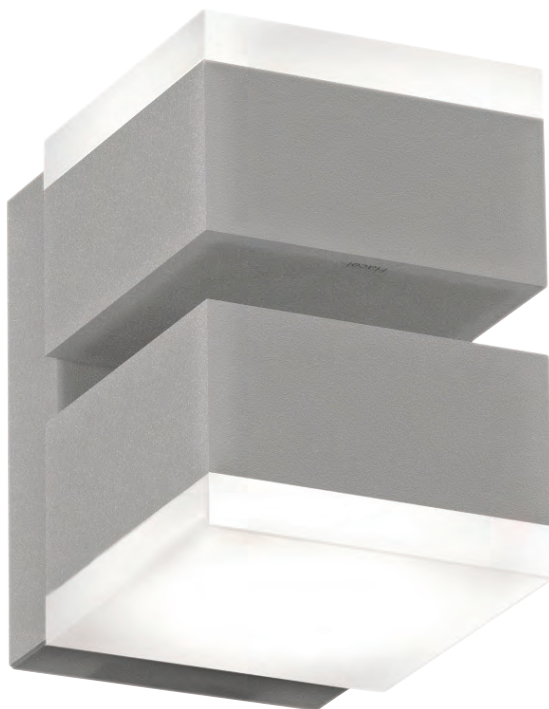
LED

| | | | | | | |
|-----|-----|-------|---|-----|----|-----|
| 7W | LED | WL060 | A | LED | 07 | 426 |
| 8W | LED | WL060 | — | LED | 08 | 426 |
| 12W | LED | WL060 | — | LED | 12 | 426 |
| 15W | LED | WL060 | — | LED | 15 | 426 |

| LOR | LED W (Total Power W) | | | |
|----------------|-----------------------|---------|-----------|-----------|
| 0.84 | 7 (7.0) | 8 (9.8) | 12 (13.8) | 15 (17.7) |
| 3000K (CRI 80) | 520 lm | 1116 lm | 1488 lm | 1860 lm |
| 4000K (CRI 80) | 520 lm | 1224 lm | 1632 lm | 2040 lm |



230V 50Hz IP20 50mm 0.9 kg



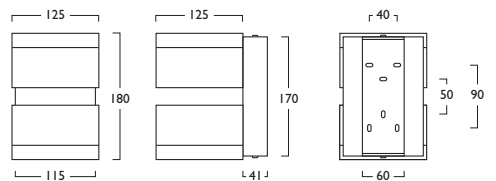
Quba Duet



LED

| | | | | | | |
|-----|-----|-------|---|-----|----|-----|
| 14W | LED | WL061 | A | LED | 14 | 427 |
| 16W | LED | WL061 | — | LED | 16 | 427 |
| 23W | LED | WL061 | — | LED | 23 | 427 |
| 30W | LED | WL061 | — | LED | 30 | 427 |

| LOR | LED W (Total Power W) | | | |
|----------------|-----------------------|-----------|-----------|-----------|
| 0.82 | 14 (14.0) | 16 (19.5) | 23 (26.9) | 30 (34.6) |
| 3000K (CRI 80) | 1040 lm | 2232 lm | 2976 lm | 3720 lm |
| 4000K (CRI 80) | 1040 lm | 2448 lm | 3264 lm | 4080 lm |



230V 50Hz IP20 50mm 1.9 kg

- Sharp design, cutting edge appearance
- Available in a choice of lumen outputs, delivering up to 2040 lumens (Solo) and 4080 lumens (Duet)
- Efficacies up to 104 lm/W (Solo) and 102 lm/W (Duet)
- Discreetly etched polycarbonate diffusers
- Life expectancy in excess of 50,000 hours (L70) excluding 7W and 14W
- Colour stability within 3 MacAdams

Gear type F must be operated through a DSI p293

- A Integral Driver
- F Digital Dim
- J Switch Dim
- S DALI Dim

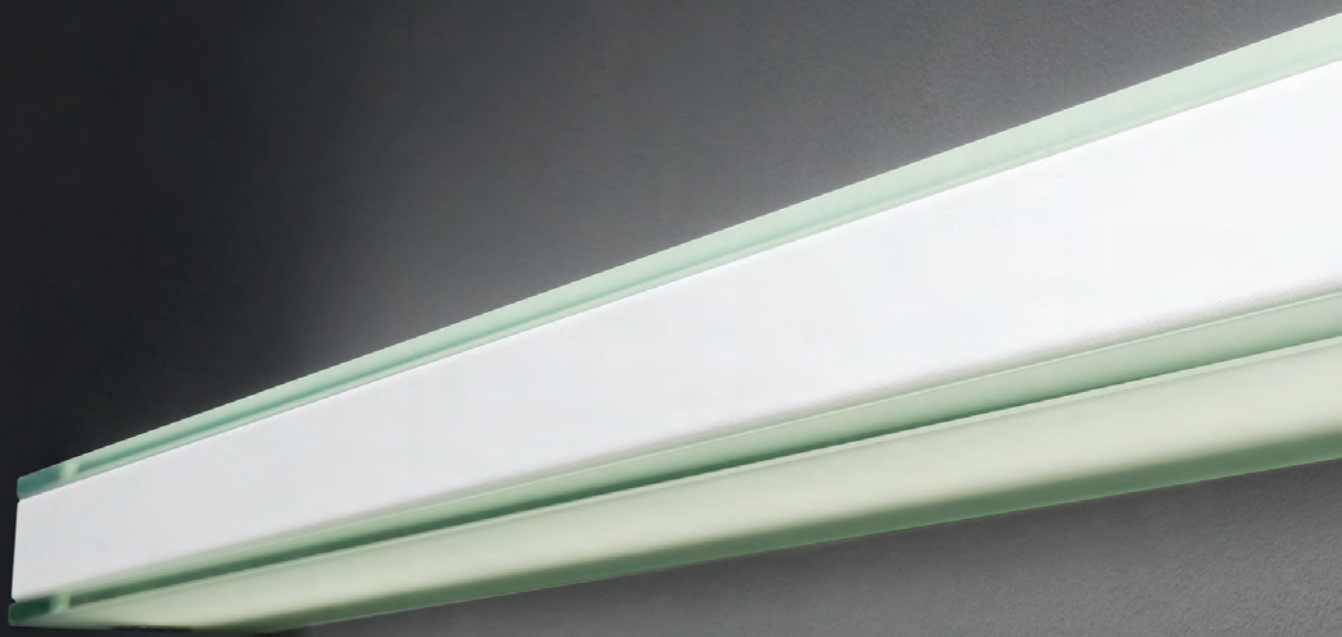
3 Warm (3000K) 4 Neutral (4000K)

1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)



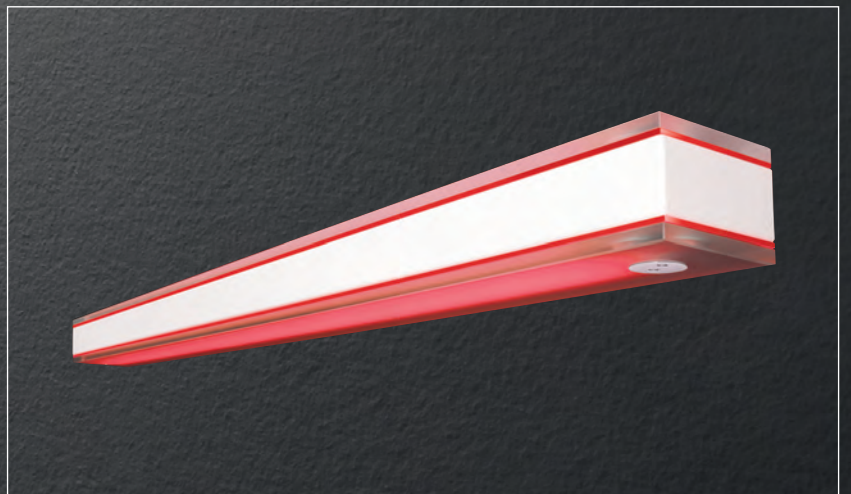


Quba





Linaj



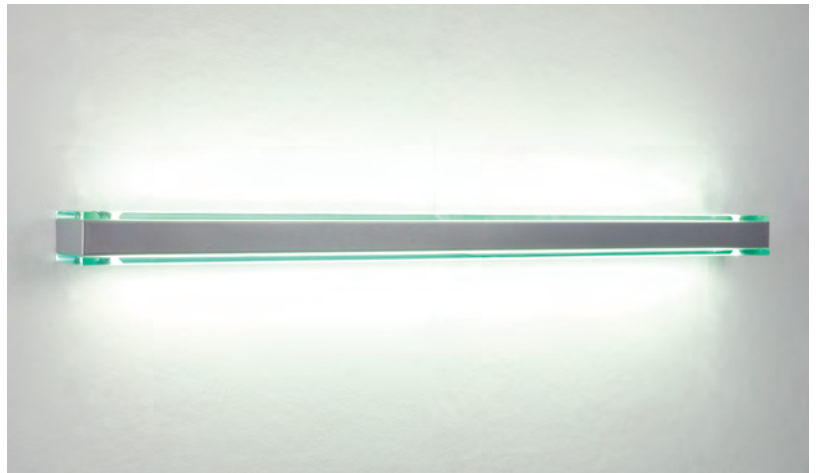
Linaj 981

Solo

| | | | | | | | | | | |
|------------|-----|--------|-------|-----|----|---|---|-----|--|--|
| | | | | | | | | | | |
| LED | | | | | | | | | | |
| 17W | LED | 1200mm | WL981 | LED | 17 | + | + | 433 | | |
| 31W | LED | 1200mm | WL981 | LED | 31 | + | + | 433 | | |

| LOR | LED W (Total Power W) | |
|----------------|-----------------------|-----------|
| 0.73 | 17 (18.5) | 31 (33.9) |
| 3000K (CRI 80) | 2474 lm | 4536 lm |
| 4000K (CRI 80) | 2554 lm | 4682 lm |

Also applies to Linaj Link



Linaj Link

Left

| | | | | | | | | | | |
|------------|-----|--------|-------|-----|----|---|---|-----|--|--|
| | | | | | | | | | | |
| LED | | | | | | | | | | |
| 17W | LED | 1200mm | WL947 | LED | 17 | + | + | 433 | | |
| 31W | LED | 1200mm | WL947 | LED | 31 | + | + | 433 | | |

Centre

| | | | | | | | | | | |
|------------|-----|--------|-------|-----|----|---|---|-----|--|--|
| LED | | | | | | | | | | |
| 17W | LED | 1200mm | WL945 | LED | 17 | + | + | 433 | | |
| 31W | LED | 1200mm | WL945 | LED | 31 | + | + | 433 | | |

Right

| | | | | | | | | | | |
|------------|-----|--------|-------|-----|----|---|---|-----|--|--|
| LED | | | | | | | | | | |
| 17W | LED | 1200mm | WL946 | LED | 17 | + | + | 433 | | |
| 31W | LED | 1200mm | WL946 | LED | 31 | + | + | 433 | | |

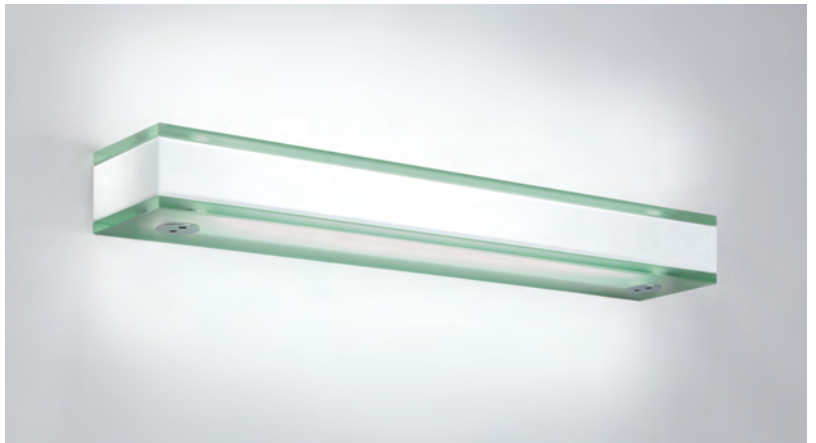


Linaj 977

Solo

| | | | | | | | | | | |
|------------|-----|-------|-------|-----|----|---|---|-----|--|--|
| | | | | | | | | | | |
| LED | | | | | | | | | | |
| 9W | LED | 600mm | WL977 | LED | 09 | + | + | 432 | | |
| 15W | LED | 600mm | WL977 | LED | 15 | + | + | 432 | | |

| LOR | LED W (Total Power W) | |
|----------------|-----------------------|-----------|
| 0.73 | 9 (11.3) | 15 (16.9) |
| 3000K (CRI 80) | 1340 lm | 2268 lm |
| 4000K (CRI 80) | 1383 lm | 2341 lm |



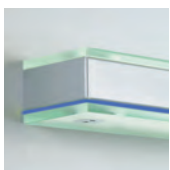
Gear types F & G must be operated through a DSI p293

- A** Integral Driver
 - E** Emergency
 - F** Digital Dim
 - G** Digital Dim + Emergency
 - J** Switch Dim
 - K** Switch Dim + Emergency
 - S** DALI Dim
 - T** DALI Dim + Emergency
 - C** DALI Dim + DALI Emergency
- 3 Warm (3000K) ■ 4 Neutral (4000K)
- 1 White (RAL 9010) ■ 2 Urban Graphite (RAL 7046) ■ 3 Black (RAL 9005)
- Luminescent Trim *Shown*

- Sleek stunning minimalistic design
- Available in a choice of lumen outputs, delivering up to 4682 lumens (Linaj 981, Link) and 2341 lumens (Linaj 977)
- Efficacies up to 100 lm/W (Linaj 981, Link) and 101 lm/W (Linaj 977)
- High quality 10mm Etched glass to upper and lower fascia
- 60,000 hour life expectancy (L80)
- Horizontal and vertical mounting in Solo and Link format
- Striking optional Luminescent Trims offer colour customisation

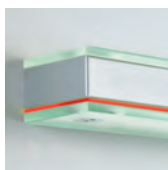


■ Luminescent Trim Options



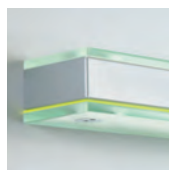
275 Neptune Blue

279 Neptune Blue (WL977)



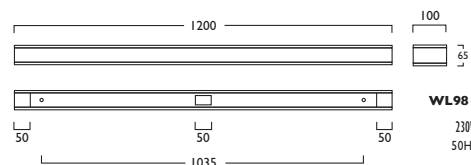
276 Mars Red

280 Mars Red (WL977)



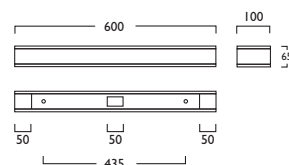
278 Acid Green

282 Acid Green (WL977)



WL981 / WL945 / WL946 / WL947

230V 50Hz **IP** 20 1035mm 10.1 kg



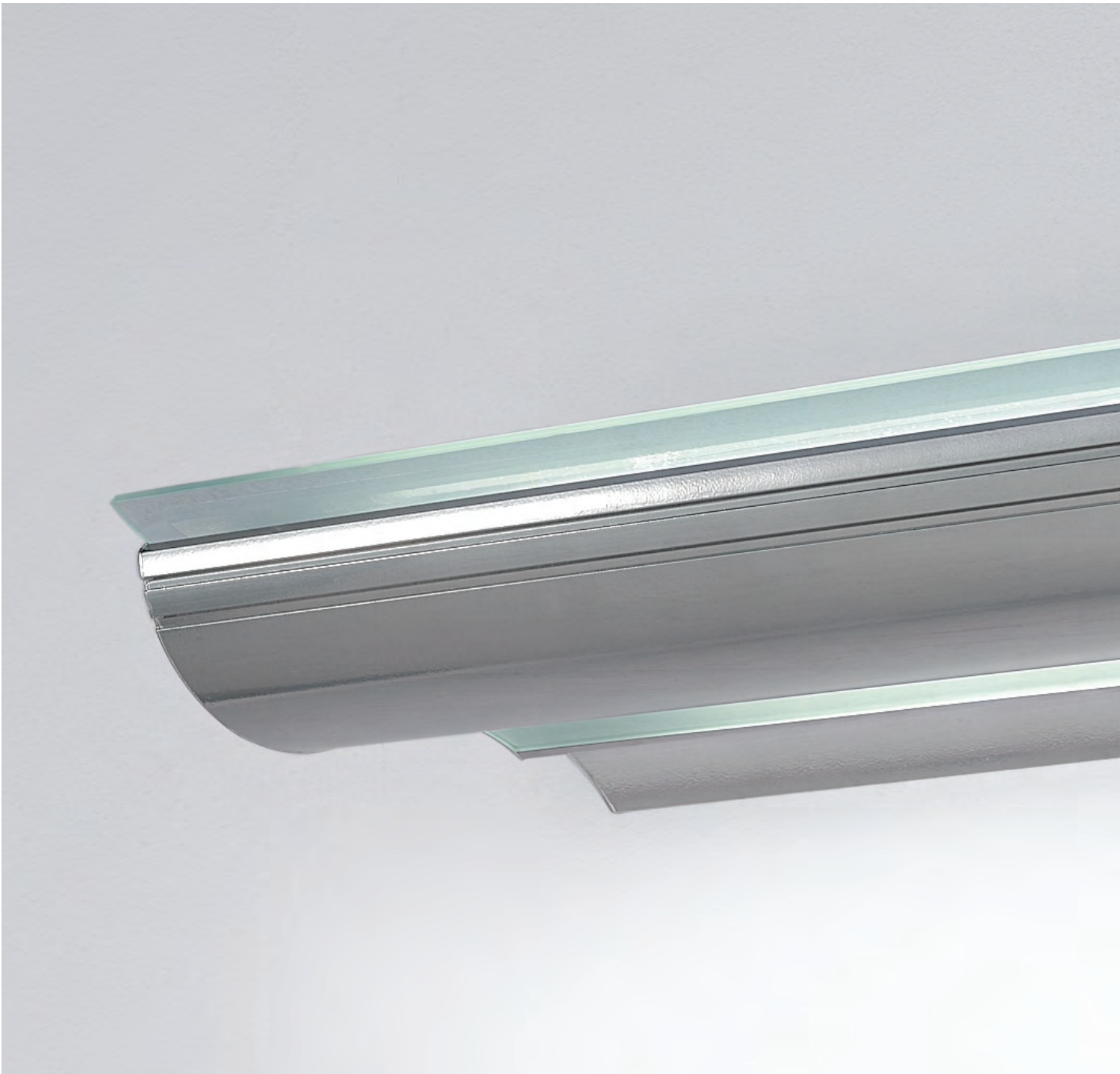
WL977

230V 50Hz **IP** 20 435mm 6.6 kg



Linaj



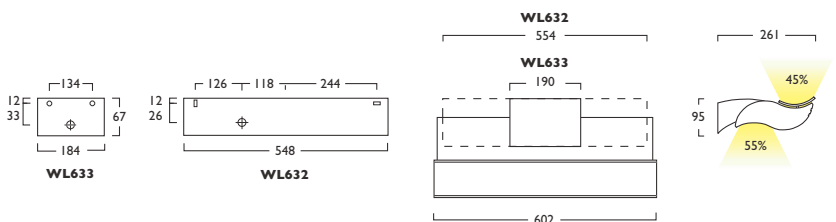
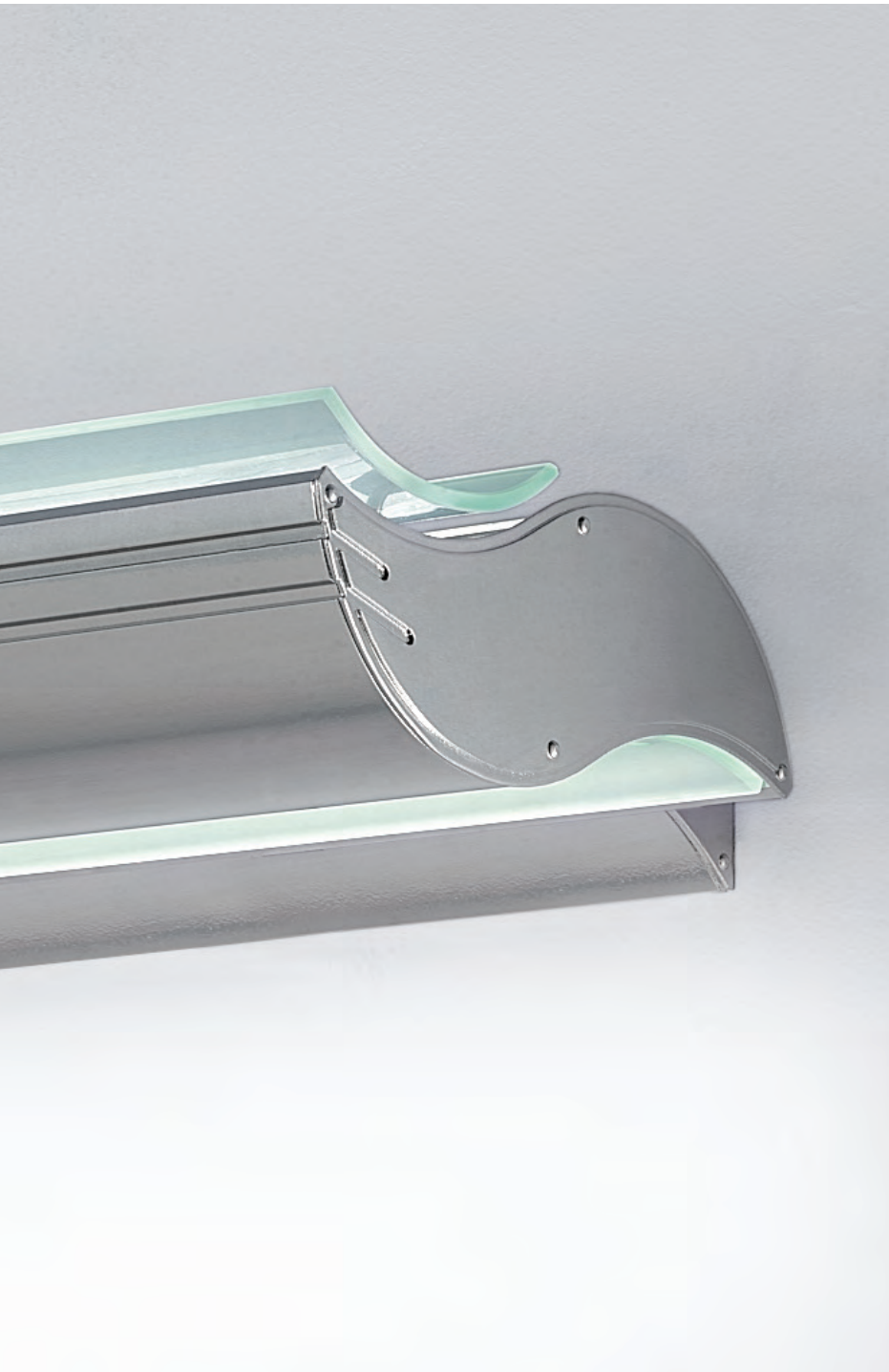


- Sculpted wave of architectural lighting with curved glass features
- Available in a choice of lumen outputs, delivering up to 5460 lumens
- Efficacies up to 79 lm/W
- High performance Zhaga Book 7 LED, colour stability within 3 MacAdams
- Meticulously designed and engineered, life expectancy of 60,000 hours (L80)
- Provides a perfect balance of uplighting and downlighting

Breeze 632, 633

| | | | | | | |
|------------|--------------|--|------------|--|--|-----|
| | | | | | | |
| LED | | | | | | |
| 39W LED | WL633 | | LED | | | 417 |
| 39W LED | WL632 | | LED | | | 417 |

| LOR | LED W (Total Power W) |
|------|------------------------|
| 0.66 | 39 (45.5) |
| | 3000K (CRI 80) 5280 lm |
| | 4000K (CRI 80) 5460 lm |



230V 50Hz **IP** 20 **WL633** 134mm **WL632** 488mm **WL633** 6 kg **WL632** 7.5 kg

Gear types F & G must be operated through a DSI p293

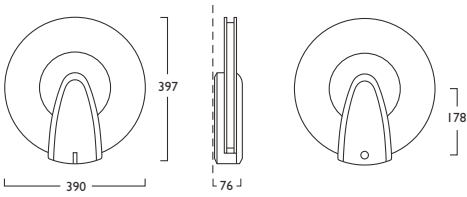
- A** Integral Driver
- E** Emergency (WL632)
- F** Digital Dim
- G** Digital Dim + Emergency (WL632)
- J** Switch Dim
- K** Switch Dim + Emergency (WL632)
- S** DALI Dim
- T** DALI Dim + Emergency (WL632)
- C** DALI Dim + DALI Emergency (WL632)

3 Warm (3000K) **4** Neutral (4000K)

1 White (RAL 9010) **2** Urban Graphite (RAL 7046) **3** Black (RAL 9005)

Ascension

| | | | | | | |
|--------------------|-------|--------|---|---|---|-----|
| | | | | | | |
| Fluorescent | | | | | | |
| 40W TFL 2GX13 | WL944 | TFL040 | - | + | + | 156 |
| 55W TFL 2GX13 | WL944 | TFL055 | - | + | + | 156 |



230V
50Hz

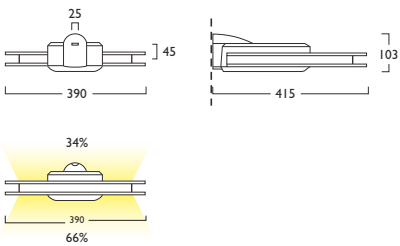
IP
20

50mm

4.2 kg



- Distinctive, slim architectural design
- Energy efficient T5 circular Fluorescent light source offering 16,000 hour life expectancy
- High quality etched glass halo and precision die cast aluminium construction
- Vertical mounting as standard. Horizontal positioning with optional Wall Mounting Bracket



Gear types F & G must be operated through a DSI p293

| | |
|--|------------------------------------|
| D High Frequency | |
| E Emergency | |
| F Digital Dim | |
| G Digital Dim + Emergency | |
| J Switch Dim | |
| K Switch Dim + Emergency | |
| S DALI Dim | |
| T DALI Dim + Emergency | |
| 1 White (RAL 9010) | 2 Urban Graphite (RAL 7046) |
| 3 Black (RAL 9005) | |
| 318 Horizontal Wall Mounting Bracket White | 157 |
| 332 Horizontal Wall Mounting Bracket Black | 157 |
| 333 Horizontal Wall Mounting Bracket Urban Graphite | 157 |

Geneva 421, 428

- Slim extruded aluminium design with grooved fascia detail
- Excellent performance from Fluorescent light source with shallow projection
- High quality flush etched glass light spill
- Wide choice of gear types
- Both Luminaires have clear glass covers as an option

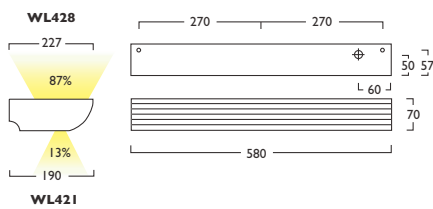


Fluorescent

| | | | | | | |
|--------|-----|------|-------|--------|---|-----|
| 40W | PLL | 2G11 | WL421 | PLL040 | + | 124 |
| 55W | PLL | 2G11 | WL421 | PLL055 | + | 124 |
| 2x 40W | PLL | 2G11 | WL421 | PLL240 | + | 124 |
| 2x 55W | PLL | 2G11 | WL421 | PLL255 | + | 124 |

Fluorescent

| | | | | | | |
|--------|-----|------|-------|--------|---|-----|
| 40W | PLL | 2G11 | WL428 | PLL040 | + | 124 |
| 55W | PLL | 2G11 | WL428 | PLL055 | + | 124 |
| 2x 40W | PLL | 2G11 | WL428 | PLL240 | + | 124 |
| 2x 55W | PLL | 2G11 | WL428 | PLL255 | + | 124 |



230V
50Hz

IP 20

540mm

4.2 kg

The Geneva WL421 is available in high frequency or dimmable versions (gear types D, F, H, J and S). The Geneva WL428 with its deeper body is available with integral emergency and is available in all gear variations.

Gear types F & G must be operated through a DSI p293

- D** High Frequency
- E** Emergency (WL428)
- F** Digital Dim
- G** Digital Dim + Emergency (WL428)
- J** Switch Dim
- K** Switch Dim + Emergency (WL428)
- S** DALI Dim
- T** DALI Dim + Emergency (WL428)
- C** DALI Dim + DALI Emergency (WL428)

- 1** White (RAL 9010) **2** Urban Graphite (RAL 7046) **3** Black (RAL 9005)
- 134** Clear Glass Cover

Royal Victoria Infirmary

Hacel Lighting offered style and sophistication to the multi million pound redevelopment of the RVI, with luminaires featured throughout the grand entrance and glass atrium.



LIFT
LEVEL 3

we come

Hacel[®]
Fluent in Lighting

Pendants

Pendants

| | |
|--------------------------|------------|
| Soledo® | 236 |
| Solos® | 241 |
| Vici | 245 |
| Sequa Eco | 246 |
| Aleda® Adjustable | 247 |
| Ariga | 249 |
| iMod® | 253 |
| Opulus | 255 |

Soledo® Pendant

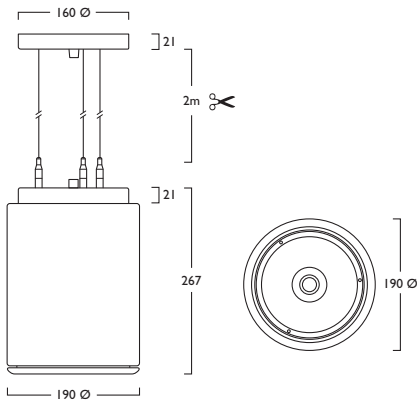


LED

| | | | | | |
|---------|-------|-----|----|---|-----|
| 8W LED | PN244 | LED | 08 | + | 370 |
| 12W LED | PN244 | LED | 12 | + | 370 |
| 17W LED | PN244 | LED | 17 | + | 370 |
| 25W LED | PN244 | LED | 25 | + | 370 |
| 33W LED | PN244 | LED | 33 | + | 435 |

| LOR | LED W (Total Power W) | | | |
|----------------|-----------------------|-----------|-----------|-----------|
| 0.97 | 8 (10.0) | 12 (13.8) | 17 (19.4) | 25 (27.7) |
| 3000K (CRI 80) | 1000 lm | 1300 lm | 1900 lm | 2775 lm |
| 4000K (CRI 80) | 1100 lm | 1400 lm | 2000 lm | 3000 lm |

| LOR | LED W (Total Power W) |
|----------------|-----------------------|
| 0.80 | 33 (36.5) |
| 3000K (CRI 80) | 4972 lm |
| 4000K (CRI 80) | 5098 lm |



230V 50Hz IP 20 50mm 3.2 kg



Gear types F & G must be operated through a DSI p293

- A Integral Driver
- E Emergency
- F Digital Dim
- G Digital Dim + Emergency
- J Switch Dim
- K Switch Dim + Emergency
- S DALI Dim
- T DALI Dim + Emergency
- C DALI Dim + DALI Emergency

3 Warm (3000K) 4 Neutral (4000K)

1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

Glass, Polycarbonate, Luminescent Halo, Reflector & Emergency Sign Options *Shown opposite*

340 3x 5m Suspensions (wires only)

- Clean contemporary styling
- Exceptional engineering and thermal management
- Available in a choice of lumen outputs, delivering up to 5098 lumens
- Efficacies up to 111 lm/W
- UGR <22 (<19 with anti-glare louvre option)
- Life expectancy in excess of 50,000 hours (L80)
- Colour stability within 3 MacAdams
- Wide range of options for customisation
- Soledo® downlight (page 48) and Surface (page 260) versions available
- 3x 2m Suspension Wires as standard

■ Glass Options



432 Flush Clear



433 Flush Etched



436 Floating Etched



438 Floating Halo Etched

■ Polycarbonate Options



439 Domed Diffuser



440 Flush Diffuser



441 Impact Resistant Cover (IP44)



443 Sculpted Diffuser



444 Sculpted Diffuser + Neptune Blue Insert



446 Sculpted Diffuser + Acid Green Insert



447 Sculpted Diffuser + Mars Red Insert

■ Luminescent Halo Options



448 Flush Halo Neptune Blue



450 Flush Halo Acid Green



451 Flush Halo Mars Red



452 Floating Halo Neptune Blue



454 Floating Halo Acid Green



455 Floating Halo Mars Red



442 Cylo Etched Ice



457 Cylo Neptune Blue



459 Cylo Acid Green



460 Cylo Mars Red

■ Reflector Option



246 Anti Glare Louvre (UGR I9) 371
8, 12 & 17W Only

■ Emergency Sign Options



527 Emergency - Left/Right



528 Emergency - Down



529 Emergency - Door



530 Emergency - Forward

Solos[®]

GRAVITY[®]









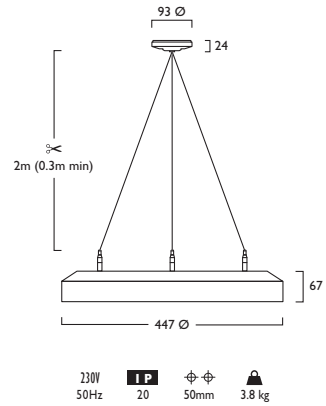
Solos® Pendant

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LED

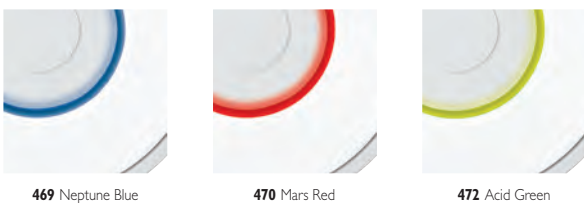
| | | | | | |
|---------|-------|-----|----|---|-----|
| 32W LED | PN287 | LED | 32 | + | 356 |
| 50W LED | PN287 | LED | 50 | + | 356 |

| LOR | LED W (Total Power W) | |
|----------------|-----------------------|-----------|
| 0.80 | 32 (35.0) | 50 (54.6) |
| 3000K (CRI 80) | 3438 lm | 4667 lm |
| 4000K (CRI 80) | 3779 lm | 5130 lm |



- Slim circular contemporary luminaire
- High performance LED offering 50,000 hour life expectancy (L70)
- Available in a choice of lumen outputs, delivering up to 5130 lumens
- Efficacies up to 86 lm/W
- 2m suspension supplied as standard (Optional 5m)
- Centre feature and housing available in White, Black and Graphite (shown)
- Complementary Downlight (p78/79), Surface (p263) and Wall Light (p211) versions are available

Luminescent Edge Options



Gear types F & G must be operated through a DSI p293

- A** Integral Driver
 - E** Emergency
 - F** Digital Dim
 - G** Digital Dim + Emergency
 - J** Switch Dim
 - K** Switch Dim + Emergency
 - S** DALI Dim
 - T** DALI Dim + Emergency
 - C** DALI Dim + DALI Emergency
- 3 Warm (3000K) 4 Neutral (4000K)
- 1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)
- Luminescent Halo Options** *Shown*
- 353 3x 5m Suspensions (wires only)

Vici







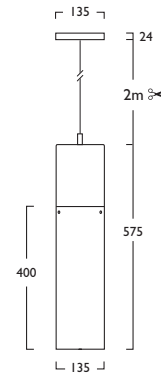
Vici



LED

| | | | | | | |
|-----|-----|-------|-----|----|---|-----|
| 8W | LED | PN455 | LED | 08 | + | 428 |
| 12W | LED | PN455 | LED | 12 | + | 428 |
| 17W | LED | PN455 | LED | 17 | + | 428 |

| LOR | LED W (Total Power W) | | |
|----------------|-----------------------|-----------|-----------|
| 0.78 | 8 (10.0) | 12 (13.8) | 17 (19.4) |
| 3000K (CRI 80) | 1000 lm | 1300 lm | 1900 lm |
| 4000K (CRI 80) | 1100 lm | 1400 lm | 2000 lm |



230V
50Hz

IP 20

50mm

3.7 kg

- Commercial quality pendant offering life expectancy of 50,000 hours (L80)
- Available in a choice of lumen outputs, delivering up to 2000 lumens
- Efficacies up to 85 lm/W
- Creatively combines lightly etched borosilicate glass and spun steel housing in a choice of colours
- Wide choice of Gear Types available
- 2m Suspension supplied as standard (optional 5m available)

Gear types F & G must be operated through a DSI p293

- A** Integral Driver
 - E** Emergency
 - F** Digital Dim
 - G** Digital Dim + Emergency
 - J** Switch Dim
 - K** Switch Dim + Emergency
 - S** DALI Dim
 - T** DALI Dim + Emergency
 - C** DALI Dim + DALI Emergency
- 3** Warm (3000K) **4** Neutral (4000K)
 - I** White (RAL 9010) **2** Urban Graphite (RAL 7046) **3** Black (RAL 9005)
 - 330** 5m Suspension (wire only)

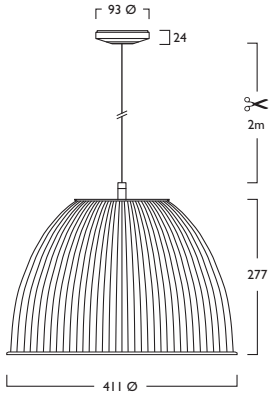
Sequa Eco



LED

| | | | | | | | |
|-----|-----|-------|-----|----|---|---|-----|
| 8W | LED | PN982 | LED | 08 | I | + | 424 |
| 12W | LED | PN982 | LED | 12 | I | + | 424 |
| 17W | LED | PN982 | LED | 17 | I | + | 424 |

| LOR | LED W (Total Power W) | | |
|----------------|-----------------------|-----------|-----------|
| 0.87 | 8 (10.0) | 12 (13.8) | 17 (19.4) |
| 3000K (CRI 80) | 1000 lm | 1300 lm | 1900 lm |
| 4000K (CRI 80) | 1100 lm | 1400 lm | 2000 lm |



230V
50Hz

IP 20

50mm

2.0 kg



Gear type F must be operated through a DSI p293

- A** Integral Driver
- F** Digital Dim
- J** Switch Dim
- S** DALI Dim
- 3** Warm (3000K) **4** Neutral (4000K)
- I** White (RAL 9010)
- 242** 5m Suspension (Wire only)

- Sequa Eco features a stylish subtly ribbed opal acrylic refractor
- Available in a choice of lumen outputs, delivering up to 2000 lumens
- Efficacies up to 95 lm/W
- Life expectancy in excess of 50,000 hours (L80)
- Glare free balanced illumination
- 2m Suspension Wire with chrome clutch adjustment supplied as standard
- Colour stability with 3 MacAdams



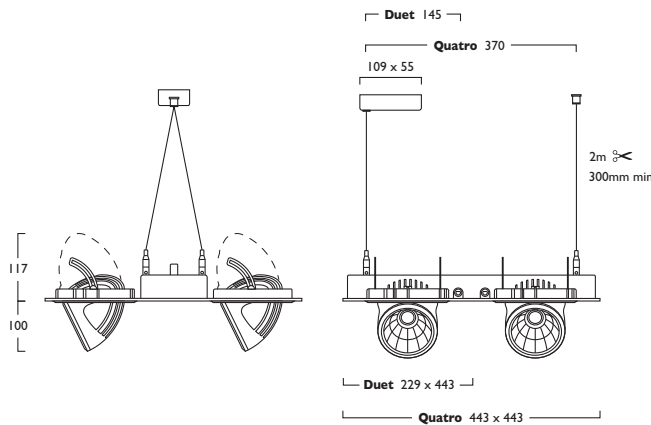
Aleda® Adjustable Pendant

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| LED CRI 80 | | | | | | | | | | |
|------------|--------|-------|-----|----|---|-----|--|--|--|--|
| 2x 12W LED | Duet | BS398 | LED | 12 | + | 377 | | | | |
| 2x 17W LED | Duet | BS398 | LED | 17 | + | 377 | | | | |
| 2x 24W LED | Duet | BS398 | LED | 24 | + | 377 | | | | |
| 2x 31W LED | Duet | BS398 | LED | 31 | + | 377 | | | | |
| 4x 12W LED | Quatro | ES398 | LED | 12 | + | 377 | | | | |
| 4x 17W LED | Quatro | ES398 | LED | 17 | + | 377 | | | | |
| 4x 24W LED | Quatro | ES398 | LED | 24 | + | 377 | | | | |
| 4x 31W LED | Quatro | ES398 | LED | 31 | + | 377 | | | | |

| LOR | LED W (Total Power W) | | | | |
|----------------|-----------------------|-----------|-----------|-----------|-----------|
| | 0.81 | 12 (13.2) | 17 (19.7) | 24 (26.4) | 31 (35.0) |
| 3000K (CRI 80) | 1886 lm | 2611 lm | 3784 lm | 4741 lm | |
| 4000K (CRI 80) | 1978 lm | 2738 lm | 3880 lm | 4861 lm | |

Table applies to one LED Light Engine



230V 50Hz | IP 20 | 64° | 350° | Duet 2.9 kg | Quatro 5.2 kg

- Single point Zhaga Book 3 LED
- Available in a choice of lumen outputs, delivering up to 4861 lumens
- Efficacies up to 121 lm/W
- LED multi head styling neatly integrated into luminaire design
- All the features of the Aleda® adjustable downlighter
- CRI 80 and CRI 90 versions
- Colour stability within 3 MacAdams
- Life expectancy in excess of 60,000 hours (L80)

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| LED CRI 90 | | | | | | | | | | |
|------------|--------|-------|-----|----|---|-----|--|--|--|--|
| 2x 12W LED | Duet | BS399 | LED | 12 | + | 378 | | | | |
| 2x 17W LED | Duet | BS399 | LED | 17 | + | 378 | | | | |
| 2x 24W LED | Duet | BS399 | LED | 24 | + | 378 | | | | |
| 2x 31W LED | Duet | BS399 | LED | 31 | + | 378 | | | | |
| 4x 12W LED | Quatro | ES399 | LED | 12 | + | 378 | | | | |
| 4x 17W LED | Quatro | ES399 | LED | 17 | + | 378 | | | | |
| 4x 24W LED | Quatro | ES399 | LED | 24 | + | 378 | | | | |
| 4x 31W LED | Quatro | ES399 | LED | 31 | + | 378 | | | | |

| LOR | LED W (Total Power W) | | | | |
|----------------|-----------------------|-----------|-----------|-----------|-----------|
| | 0.81 | 12 (13.2) | 17 (19.7) | 24 (26.4) | 31 (35.0) |
| 3000K (CRI 90) | 1629 lm | 2255 lm | 3236 lm | 4054 lm | |
| 4000K (CRI 90) | 1767 lm | 2446 lm | 3447 lm | 4318 lm | |

Table applies to one LED Light Engine

Gear type F must be operated through a DSI p293

A Integral Driver

F Digital Dim

J Switch Dim

S DALI Dim

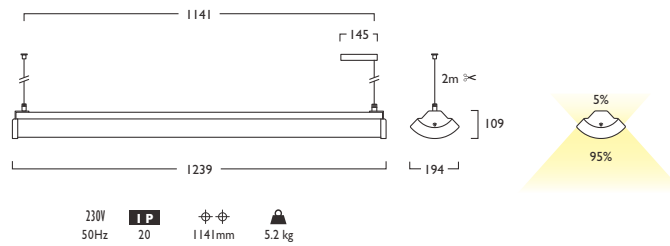
3 Warm (3000K) 4 Neutral (4000K)

1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

| Reflector | CRI | |
|--------------------|-----|-----|
| | 80 | 90 |
| 480 2x Narrow Beam | 379 | 380 |
| 481 2x Wide Beam | 381 | 382 |
| 484 4x Narrow Beam | 379 | 380 |
| 485 4x Wide Beam | 381 | 382 |

144 2x 5m Twin suspensions (wires only) (BS398, ES398, BS399, ES399)

Luminescent Halo, Baffle Options Shown on Aleda Adjustable page 57



258 Tamperproof End Caps

Ariga Pendant

| LED | | ☀ | 📱 | 🏠 | ☑ | K | 🔊 | + | ▲ |
|-----|-----|--------|-------|-----|----|---|-----|---|---|
| 25W | LED | 1239mm | PN395 | LED | 25 | + | 373 | | |
| 31W | LED | 1239mm | PN395 | LED | 31 | + | 373 | | |
| 46W | LED | 1239mm | PN395 | LED | 46 | + | 373 | | |

| LOR | LED W (Total Power W) | | |
|----------------|-----------------------|-----------|-----------|
| 0.86 | 25 (26.7) | 31 (34.5) | 46 (49.2) |
| 3000K (CRI 80) | 3752 lm | 4540 lm | 6000 lm |
| 4000K (CRI 80) | 3868 lm | 4680 lm | 6180 lm |



- Zhaga Book 7 LED with an outstanding LOR of 0.86
- Available in a choice of lumen outputs, delivering up to 6180 lumens
- Efficacies up to 124 lm/W
- Comprehensive choice of Control Gear types
- Life expectancy 60,000 hours (L70)
- Extruded 'wipe clean' clear polycarbonate refractor with internal linear microprisms
- Exceptional wide light distribution for general lighting applications
- Complete with 2x 2m suspension wires and chrome clutches
- Colour stability within 3 MacAdams
- Complementary Surface version is shown on (page 259)

Gear types F & G must be operated through a DSI p293

- A Integral Driver
- E Emergency
- F Digital Dim
- G Digital Dim + Emergency
- J Switch Dim
- K Switch Dim + Emergency
- S DALI Dim
- T DALI Dim + Emergency
- C DALI Dim + DALI Emergency

3 Warm (3000K) 4 Neutral (4000K)

1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

331 2x 5m Suspensions (wires only)

258 Tamperproof End Caps

259 Tamperproof Screwdriver (T20)





iMod[®]



iMod® Pendant

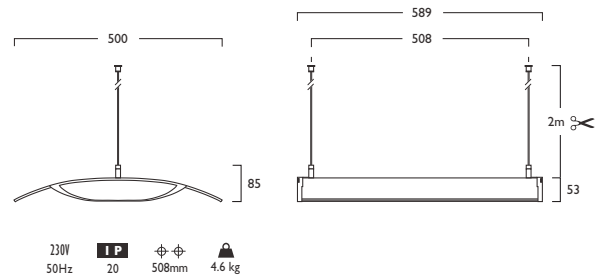
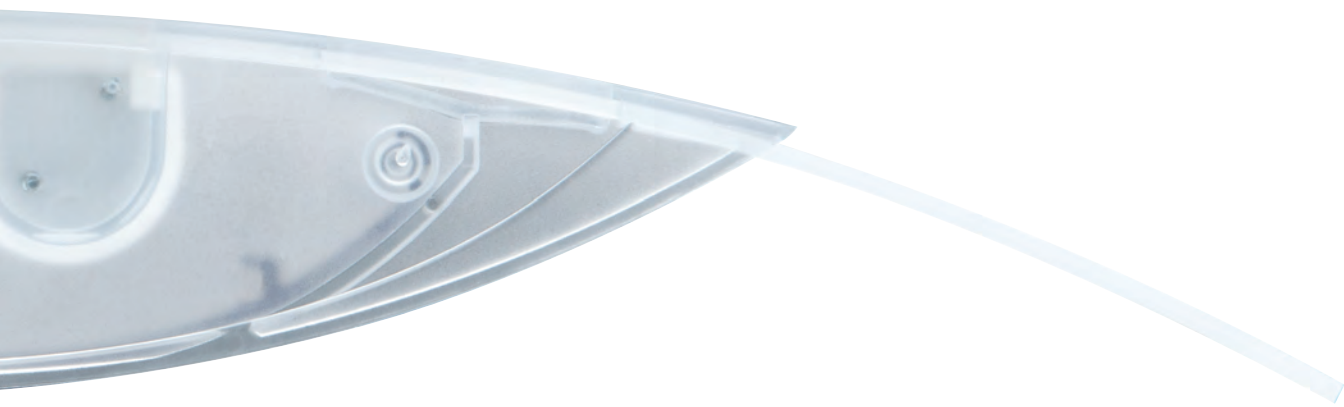


LED

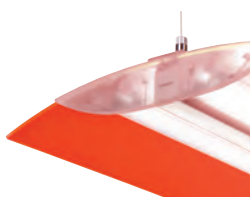
| | | | | | |
|---------|-------|-----|----|---|-----|
| 17W LED | PN099 | LED | 17 | + | 434 |
| 24W LED | PN099 | LED | 24 | + | 434 |

| LOR | LED W (Total Power W) | |
|----------------|-----------------------|-----------|
| 0.80 | 17 (18.5) | 24 (26.7) |
| 3000K (CRI 80) | 2474 lm | 3752 lm |
| 4000K (CRI 80) | 2554 lm | 3868 lm |

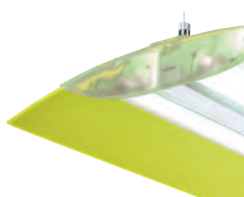
- Translucent design creates a unique and distinctive LED style statement
- Available in a choice of lumen outputs, delivering up to 3868 lumens
- Efficacies up to 115 lm/W
- 60,000 hour life expectancy (L80)
- Comprehensive choice of Gear Types available
- Luminescent Wing offers vivid coloured indirect lighting whilst maintaining white direct illumination
- 2x 2m Suspension Wires with chrome clutches supplied as standard
- Surface version available see page 270



Luminescent Wing Options



229 Mars Red



231 Acid Green

Gear types F & G must be operated through a DSI p293

- A Integral Driver
- E Emergency
- F Digital Dim
- G Digital Dim + Emergency
- J Switch Dim
- K Switch Dim + Emergency
- S DALI Dim
- T DALI Dim + Emergency
- C DALI Dim + DALI Emergency

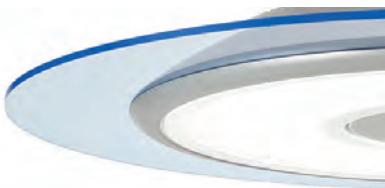
- 3 Warm (3000K) 4 Neutral (4000K)
- I White (RAL 9010) 2 Urban Graphite (RAL 7046)

Luminescent Wing Options Shown

- 331 2x 5m Suspensions (wires only)



■ Luminescent Halo Options



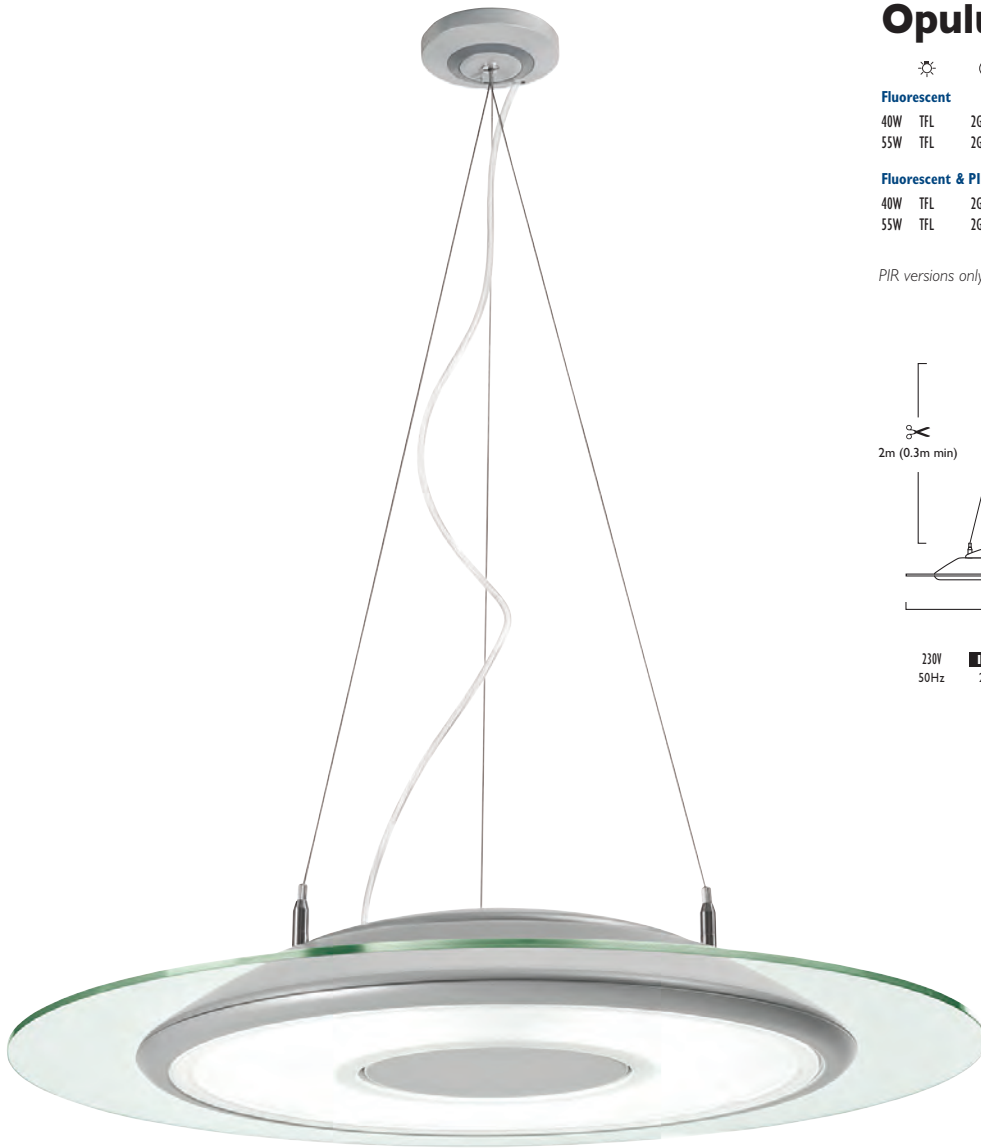
326 Neptune Blue



327 Mars Red



329 Acid Green



Opulus Pendant



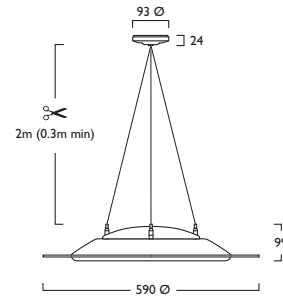
Fluorescent

| | | | | | | |
|-----|-----|-------|-------|--------|---|-----|
| 40W | TFL | 2GX13 | PN998 | TFL040 | + | 171 |
| 55W | TFL | 2GX13 | PN998 | TFL055 | + | 171 |

Fluorescent & PIR

| | | | | | | |
|-----|-----|-------|-------|--------|---|-----|
| 40W | TFL | 2GX13 | PN999 | TFL040 | + | 171 |
| 55W | TFL | 2GX13 | PN999 | TFL055 | + | 171 |

PIR versions only suitable for use with Gear Types F and G

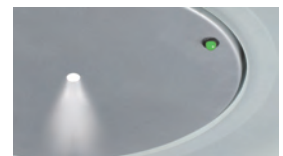


230V
50Hz

IP 20

50mm

6.0 kg



- Opulus features a large diameter clear outer Halo Glass, combined with lightly etched inner Halo
- High output T5 fluorescent light source with an impressive 16,000 hour lamp life
- Luminaire offers excellent lighting performance
- Suspended and Surface versions incorporate a wide choice of integral Gear Types
- Vivid Luminescent Halo options enable creativity with colour
- Optional in-built Passive Infra-Red Detector can significantly improve energy efficiency
- Supplied with single point 3x 2m Suspension Wire as standard
- Complementary Opulus Recessed Downlighters (page 85) and Surface (page 273) versions are available

Gear types F & G must be operated through a DSI p293

- D** High Frequency
- E** Emergency
- F** Digital Dim
- G** Digital Dim + Emergency
- J** Switch Dim
- K** Switch Dim + Emergency
- S** DALI Dim
- T** DALI Dim + Emergency

I White (RAL 9010) **2** Urban Graphite (RAL 7046) **3** Black (RAL 9005)

Luminescent Halo Shown opposite

353 3x 5m Suspensions

Redcar Heart Project

Combining a new leisure centre, civic facilities and business centre into a single redevelopment, Hacer Lighting designed and manufactured innovative luminaires for this flagship project.





AT THE HEART
OF YOUR
CELEBRATION

BOOK YOUR WEDDING
OR SPECIAL EVENT
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OR VISIT OUR WEBSITE
FOR DETAILS

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an opportunity

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an opportunity

Perfect office space for start
and growing businesses

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- Competitive rates
- Flexible lease to suit your needs
- 24/7 Access including Christmas Day
- Flexible support
- Flexible services

For more information visit
www.hacel.co.uk

Hacel[®]
Fluent in Lighting

Surface

Surface

| | |
|----------------|------------|
| Soledo® | 260 |
| Solos® | 263 |
| Ariga | 267 |
| iMod® | 270 |
| SkyMod | 271 |
| Opulus | 273 |

Soledo® Surface

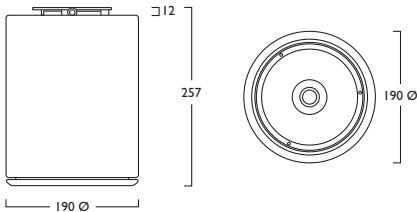


LED

| | | | | | | |
|-----|-----|-------|-----|----|---|-----|
| 8W | LED | SD244 | LED | 08 | + | 370 |
| 12W | LED | SD244 | LED | 12 | + | 370 |
| 17W | LED | SD244 | LED | 17 | + | 370 |
| 25W | LED | SD244 | LED | 25 | + | 370 |
| 33W | LED | SD244 | LED | 33 | + | 435 |

| LOR | LED W (Total Power W) | | | |
|----------------|-----------------------|-----------|-----------|-----------|
| 0.97 | 8 (10.0) | 12 (13.8) | 17 (19.4) | 25 (27.7) |
| 3000K (CRI 80) | 1000 lm | 1300 lm | 1900 lm | 2775 lm |
| 4000K (CRI 80) | 1100 lm | 1400 lm | 2000 lm | 3000 lm |

| LOR | LED W (Total Power W) |
|----------------|-----------------------|
| 0.80 | 33 (36.5) |
| 3000K (CRI 80) | 4972 lm |
| 4000K (CRI 80) | 5098 lm |



230V
50Hz

IP
20

50mm

2.9 kg



- Clean and subtle styling
- Exceptional engineering and thermal management with discreet venting
- Available in a choice of lumen outputs, delivering up to 5098 lumens
- Efficacies up to 111 lm/W
- UGR <22 (<19 with anti-glare louvre option)
- Life expectancy in excess of 50,000 hours (L80)
- Colour stability within 3 MacAdams
- Wide range of options for customisation
- Complementary Downlight (page 48) and Pendant (page 236) versions available

Gear types F & G must be operated through a DSI p293

- A** Integral Driver
 - E** Emergency
 - F** Digital Dim
 - G** Digital Dim + Emergency
 - J** Switch Dim
 - K** Switch Dim + Emergency
 - S** DALI Dim
 - T** DALI Dim + Emergency
 - C** DALI Dim + DALI Emergency
- 3 Warm (3000K) 4 Neutral (4000K)
- 1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)
- Glass, Polycarbonate, Luminescent Halo & Emergency Sign Options Shown opposite

■ Glass Options



432 Flush Clear



433 Flush Etched



436 Floating Etched



438 Floating Halo Etched

■ Polycarbonate Options



439 Domed Diffuser



440 Flush Diffuser



441 Impact Resistant Cover (IP44)



443 Sculpted Diffuser



444 Sculpted Diffuser + Neptune Blue Insert



446 Sculpted Diffuser + Acid Green Insert



447 Sculpted Diffuser + Mars Red Insert

■ Luminescent Halo Options



448 Flush Halo Neptune Blue



450 Flush Halo Acid Green



451 Flush Halo Mars Red



452 Floating Halo Neptune Blue



454 Floating Halo Acid Green



455 Floating Halo Mars Red



442 Cylo Etched Ice



457 Cylo Neptune Blue



459 Cylo Acid Green



460 Cylo Mars Red

■ Reflector Option



246 Anti Glare Louvre (UGR 19) 371
8, 12 & 17W Only

■ Emergency Sign Options



527 Emergency - Left/Right



528 Emergency - Down



529 Emergency - Door



530 Emergency - Forward



Solos® Surface

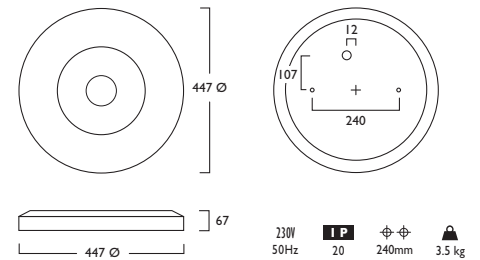


LED
32W LED SD286 LED 32 + 354

LED & MW
32W LED SD329 LED 32 + 354

| LOR | LED W (Total Power W) |
|----------------|-----------------------|
| 0.80 | 32 (35.0) |
| 3000K (CRI 80) | 3438 lm |
| 4000K (CRI 80) | 3779 lm |

Microwave versions not suitable for use with Gear Types J and K



- Sleek high performance LED Circular luminaire offering 50,000 hour life expectancy (L70)
- Available in a choice of lumen outputs, delivering up to 3779 lumens
- Efficacies up to 86 lm/W
- Microwave Control is discreetly concealed behind diffuser
- Slim luminaire projection of only 67mm
- Centre feature and housing available in White, Black or Graphite
- The Microwave Sensor defaults can be modified with the use of the Hand Held Controller or Programmer (contact our Lighting Design Department for advice)
- Complementary Recessed Downlight (page 78/79), Pendant (page 241) and Wall Light (page 211) versions available

Luminescent Edge Options



469 Neptune Blue

470 Mars Red

472 Acid Green

Gear types F & G must be operated through a DSI p293

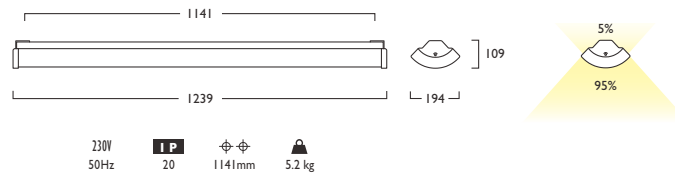
- A Integral Driver
 - E Emergency
 - F Digital Dim
 - G Digital Dim + Emergency
 - J Switch Dim (SD286 only)
 - K Switch Dim + Emergency (SD286 only)
 - S DALI Dim
 - T DALI Dim + Emergency
 - C DALI Dim + DALI Emergency
- 3 Warm (3000K) 4 Neutral (4000K)
- 1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)
- Luminescent Halo Options Shown



Ariga



- Zhaga Book 7 LED with an outstanding LOR of 0.86
- Available in a choice of lumen outputs, delivering up to 6180 lumens
- Efficacies up to 124 lm/W
- Comprehensive choice of wattages and Control Gear types
- Life expectancy 60,000 hours (L70)
- Extruded 'wipe clean' clear polycarbonate refractor with internal linear microprisms
- Exceptional wide light distribution for general lighting applications
- Colour stability within 3 MacAdams
- Designed to accept fixings for lighting trunking and uni-strut
- Complementary Pendant version is shown on page 249



Ariga Surface



LED

| | | | | | | | |
|-----|-----|--------|-------|-----|----|---|-----|
| 25W | LED | 1239mm | SM395 | LED | 25 | + | 373 |
| 31W | LED | 1239mm | SM395 | LED | 31 | + | 373 |
| 46W | LED | 1239mm | SM395 | LED | 46 | + | 373 |

| LOR | LED W (Total Power W) | | | |
|----------------|-----------------------|-----------|-----------|-----------|
| | 0.86 | 25 (26.7) | 31 (34.5) | 46 (49.2) |
| 3000K (CRI 80) | 3752 lm | 4540 lm | 6000 lm | |
| 4000K (CRI 80) | 3868 lm | 4680 lm | 6180 lm | |



258 Tamperproof End Caps

Gear types F & G must be operated through a DSI p293

- A Integral Driver
- E Emergency
- F Digital Dim
- G Digital Dim + Emergency
- J Switch Dim
- K Switch Dim + Emergency
- S DALI Dim
- T DALI Dim + Emergency
- C DALI Dim + DALI Emergency

3 Warm (3000K) 4 Neutral (4000K)

1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

258 Tamperproof End Caps

259 Tamperproof Screwdriver (T20)



iMod®

iMod® Surface

☀️ 🌙 📏 📐 🗙 🛠️ 📐

LED

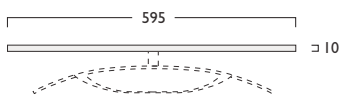
| | | | | | |
|---------|-------|-----|----|---|-----|
| 17W LED | SM099 | LED | 17 | + | 434 |
| 24W LED | SM099 | LED | 24 | + | 434 |

| LOR | LED W (Total Power W) | |
|----------------|-----------------------|-----------|
| 0.80 | 17 (18.5) | 24 (26.7) |
| 3000K (CRI 80) | 2474 lm | 3752 lm |
| 4000K (CRI 80) | 2554 lm | 3868 lm |

- Imaginative translucent design creates a unique and distinctive style statement
- Available in a choice of lumen outputs, delivering up to 3868 lumens
- Efficacies up to 115 lm/W
- Offering 60,000 hour life expectancy (L80)
- Comprehensive choice of Gear Types available
- Luminescent Wing offers vivid coloured indirect lighting whilst maintaining white direct illumination
- Complementary Pendant version available see page 253

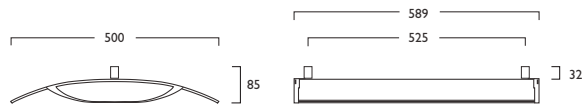


226 LG7 T bar Reflectance Panel



Provides the correct reflectance to achieve LG7 in T bar suspended ceilings

LG7 in accordance with SLL Code for Lighting 2012



230V 50Hz IP20 525mm 4.6 kg

Gear types F & G must be operated through a DSI p293

- A** Integral Driver
 - E** Emergency
 - F** Digital Dim
 - G** Digital Dim + Emergency
 - J** Switch Dim
 - K** Switch Dim + Emergency
 - S** DALI Dim
 - T** DALI Dim + Emergency
 - C** DALI Dim + DALI Emergency
- 3 Warm (3000K) 4 Neutral (4000K)
- 1 White (RAL 9010) 2 Urban Graphite (RAL 7046)

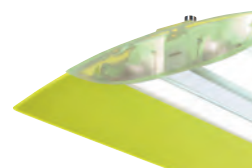
Luminescent Wing Options

226 LG7 T bar Reflectance Panel

Luminescent Wing Options



229 Mars Red



231 Acid Green



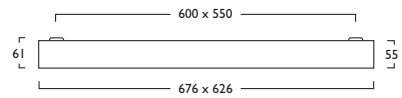
SkyMod Surface



LED

| | | | | | |
|-----|-----|-------|-----|----|-----|
| 22W | LED | SM299 | LED | 22 | 359 |
| 34W | LED | SM299 | LED | 34 | 359 |
| 46W | LED | SM299 | LED | 46 | 359 |

| LOR | LED W (Total Power W) | | |
|----------------|-----------------------|-----------|-----------|
| 0.82 | 22 (24.5) | 34 (38.2) | 46 (50.4) |
| 3000K (CRI 80) | 3388 lm | 5130 lm | 6680 lm |
| 4000K (CRI 80) | 3500 lm | 5300 lm | 6920 lm |



230V 50Hz IP20 600 x 550mm 6.5 kg

Designed for solid/concrete ceilings and incorporates integral gear



- Clean compact styling
- Features an Opal polycarbonate diffuser with wipe clean surface
- Available in a choice of lumen outputs, delivering up to 6920 lumens
- Efficacies up to 117 lm/W
- 22W version has luminance limits below 3000cd/m² at the 65° cut off *
- Life expectancy in excess of 60,000 hours (L90)
- Colour stability within 3 MacAdams
- Wide choice of high quality control gear
- TP(b) rated as standard
- Complementary Grid and Recessed versions available see page 26

Gear types F & G must be operated through a DSI p293

- A Integral Driver
 - E Emergency
 - F Digital Dim
 - G Digital Dim + Emergency
 - J Switch Dim
 - K Switch Dim + Emergency
 - S DALI Dim
 - T DALI Dim + Emergency
 - C DALI Dim + DALI Emergency
- 3 Warm (3000K) 4 Neutral (4000K)
- 1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)
- Interconnection options available contact Sales



Opulus Surface



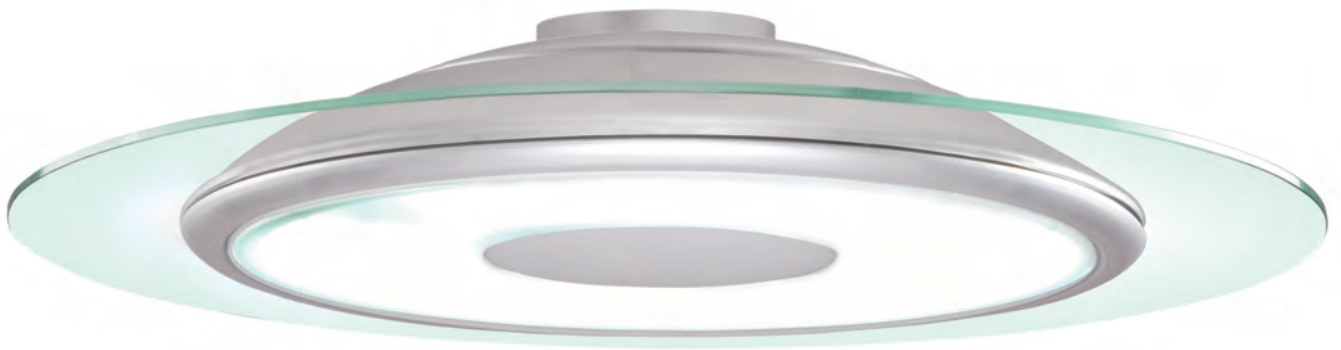
Fluorescent

| | | | | | |
|-----|-----|-------|-------|--------|-----|
| 40W | TFL | 2GX13 | SD94I | TFL040 | 171 |
| 55W | TFL | 2GX13 | SD94I | TFL055 | 171 |

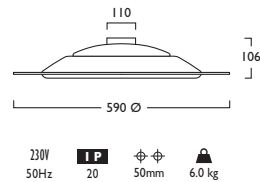
Fluorescent & PIR

| | | | | | |
|-----|-----|-------|-------|--------|-----|
| 40W | TFL | 2GX13 | SD99I | TFL040 | 171 |
| 55W | TFL | 2GX13 | SD99I | TFL055 | 171 |

PIR versions only suitable for use with Gear Types F and G only



- Opulus features a large diameter clear outer Halo Glass, combined with lightly etched inner Halo
- High output T5 fluorescent light source with an impressive 16,000 hour lamp life
- Luminaire offers excellent lighting performance
- Vivid Luminescent Halo options enable creativity with colour
- Optional in-built Passive Infra-Red Detector can significantly improve energy efficiency
- Complementary Opulus Recessed Downlighters (page 85) and Pendant (page 255) are available



Luminescent Halo Options



326 Neptune Blue



327 Mars Red



329 Acid Green

Gear types F & G must be operated through a DSI p293

- D** High Frequency
- E** Emergency
- F** Digital Dim
- G** Digital Dim + Emergency
- J** Switch Dim
- K** Switch Dim + Emergency
- S** DALI Dim
- T** DALI Dim + Emergency

1 White (RAL 9010) 2 Urban Graphite (RAL 7046) 3 Black (RAL 9005)

Luminescent Halo Shown above





The Curve

Providing education for mental health patients, the contemporary facility hosts dynamic, energy efficient luminaires designed and manufactured in the UK by Hacel.

Hacel[®]
Fluent in Lighting

LightLine® LED Tape

LightLine® LED Tape

| | |
|---|------------|
| LightLine® | 282 |
| LightLine® Connectors / Driver / Accessories | 282 |
| LightLine® IP67 | 283 |
| LightLine® IP67 Connectors | 283 |

Hacel[®]
Fluent in Lighting

LightLine[®] LED Tape

Presenting an artistic form of luminance, LightLine[®] LED is a flexible and adaptable solution for various lighting scenarios. Stylistic in its approach, LightLine[®] LED encourages the creation of subtle yet spectacular illumination. Highlighting straight lines, curved contours and geometric shapes, lighting becomes an integral part of architecture; bringing buildings, interiors and surface structures to life.







LightLine[®] LED Tape

LightLine®



| LED | | | | | | | |
|---------|--------|--------|---|-----|----|-----|--|
| 46W LED | 5998mm | LT1000 | P | LED | 46 | 443 | |
| 84W LED | 4990mm | LT1001 | P | LED | 84 | 444 | |



| LOR | LED W (Total Power W) | |
|----------------|-----------------------|-----------|
| 1.00 | 46 (52.4) | 84 (92.4) |
| 3000K (CRI 80) | 3600 lm | 7500 lm |
| 4000K (CRI 80) | 4200 lm | 8250 lm |

Total Power may vary depending on Driver used

LightLine® Connectors



| | | | | |
|-------------------|-------|--------|---|---------|
| Starter Connector | 500mm | LT1002 | P | CON 005 |
| Connector | N/a | LT1003 | P | CON 005 |



LightLine® Drivers

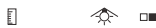
24V DC Constant Voltage



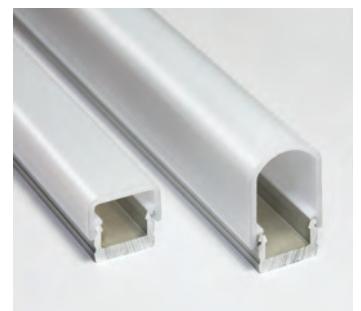
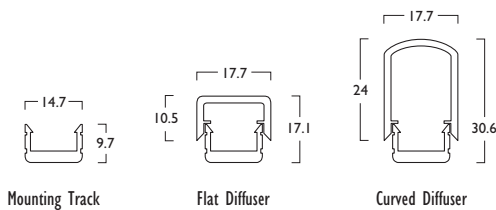
| Non Dimming | | L x W x H | | | |
|-------------|--|-----------------|--------|---|---------|
| 20W IP20 | | 109 x 50 x 35mm | CPI014 | A | EPP 020 |
| 50W IP66 | | 220 x 40 x 22mm | CPI015 | A | EPP 050 |
| 80W IP67 | | 250 x 50 x 34mm | CPI016 | A | EPP 080 |
| 120W IP67 | | 250 x 60 x 39mm | CPI017 | A | EPP 120 |
| 240W IP67 | | 109 x 50 x 35mm | CPI018 | A | EPP 240 |

| DALI/Switch Dimming | | L x W x H | | | |
|---------------------|--|-----------------|--------|---|---------|
| 75W IP20 | | 220 x 46 x 44mm | CPI019 | A | EPP 075 |

LightLine® Accessories



| | | | | |
|-------------------------------|--------|--------|---|---------|
| Mounting Track | 2100mm | LT1010 | X | TRK 000 |
| Flat Diffuser | 2100mm | LT1020 | X | DFR 000 |
| Curved Diffuser | 2100mm | LT1011 | X | DFR 000 |
| Curved Diffuser End Cap | N/a | LT1012 | X | CAP 000 |
| Mounting Track Fixing Bracket | N/a | LT1013 | X | BKT 000 |



LightLine® IP67



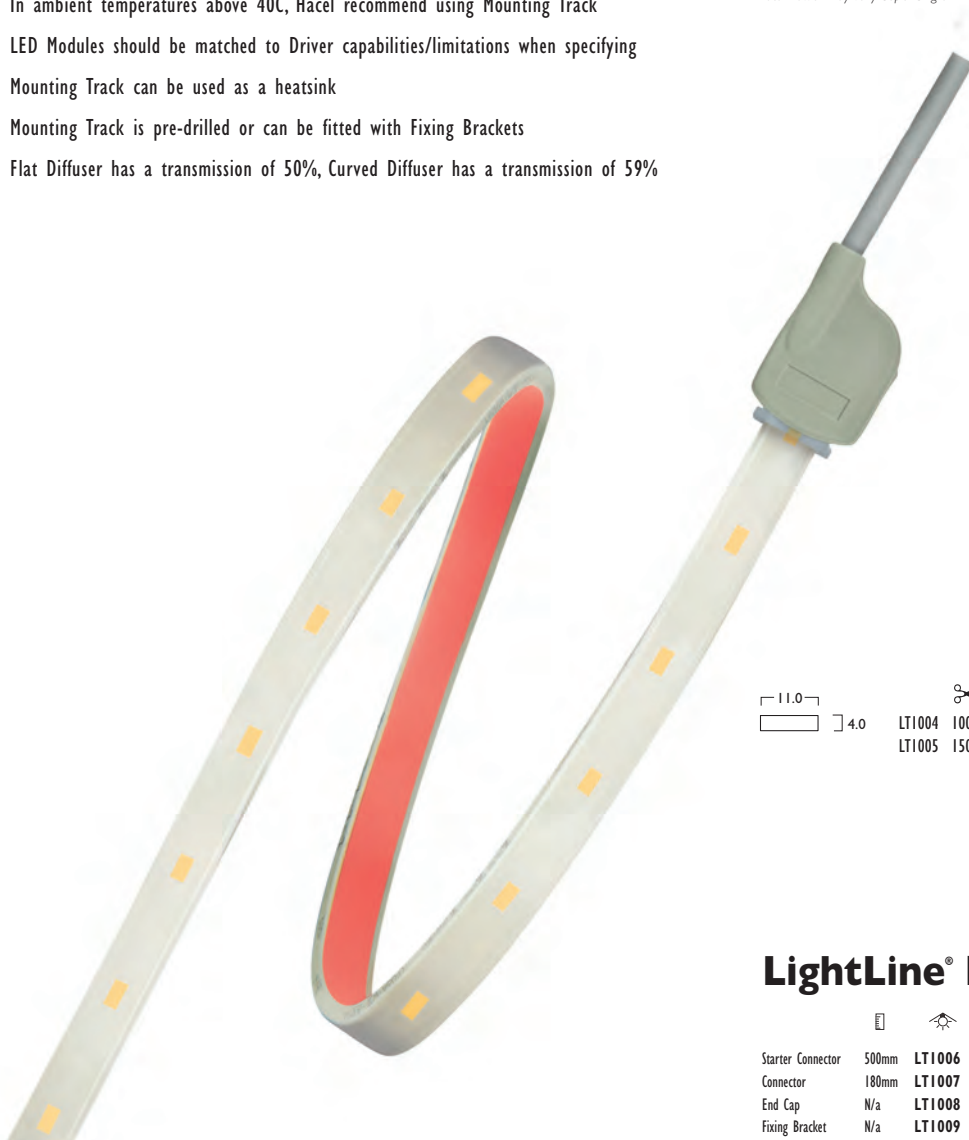
LED

| | | | | | | |
|---------|---------|--------|---|-----|----|-----|
| 50W LED | 10000mm | LT1004 | P | LED | 50 | 445 |
| 79W LED | 5100mm | LT1005 | P | LED | 79 | 446 |

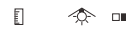
| LOR | LED W (Total Power W) | |
|----------------|-----------------------|-----------|
| 1.00 | 50 (57.0) | 79 (89.3) |
| 3000K (CRI 80) | 3500 lm | 6380 lm |
| 4000K (CRI 80) | 3900 lm | 7140 lm |

Total Power may vary depending on Driver used

- Flexible LED Modules and Connectors IP20 or IP67 rated
- Available in a choice of lumen outputs, delivering up to 8250 lumens
- Efficacies up to 89 lm/W, colour stability within 4 MacAdams
- Life expectancy in excess of 35,000 hours (L70 B50), 50,000 (L70 B50) for IP67
- Single colour and RGB available on request
- In ambient temperatures above 40C, Hacer recommend using Mounting Track
- LED Modules should be matched to Driver capabilities/limitations when specifying
- Mounting Track can be used as a heatsink
- Mounting Track is pre-drilled or can be fitted with Fixing Brackets
- Flat Diffuser has a transmission of 50%, Curved Diffuser has a transmission of 59%



LightLine® IP67 Connectors



| | | | | |
|-------------------|-------|--------|---|---------|
| Starter Connector | 500mm | LT1006 | P | CON 005 |
| Connector | 180mm | LT1007 | P | CON 005 |
| End Cap | N/a | LT1008 | X | CAP 000 |
| Fixing Bracket | N/a | LT1009 | X | BKT 000 |

P 230/24V Constant Current Driver Required
X Non electrical component

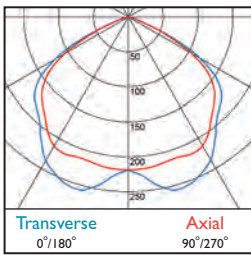
LightLine[®] LED Tape



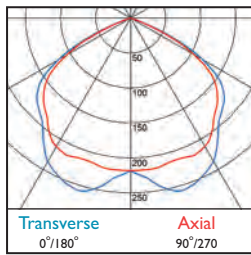


Technical Information

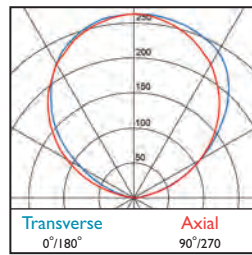
| | |
|--------------------------------|-----|
| Photometric Information | 288 |
| Lamp Characteristics | 293 |
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| Option Index | 299 |



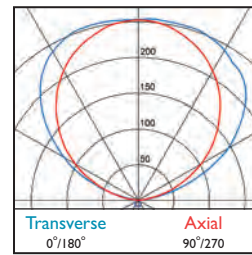
032 DLOR: 0.74



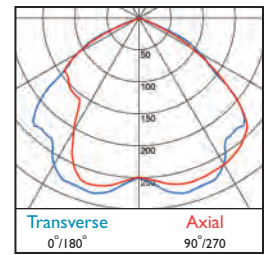
034 DLOR: 0.74



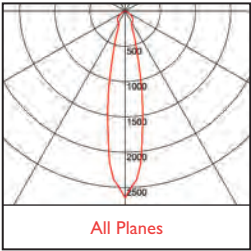
123 ULOR: 0.72



124 ULOR: 0.77 DLOR: 0.03



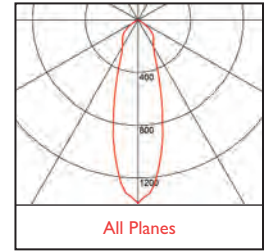
126 DLOR: 0.72



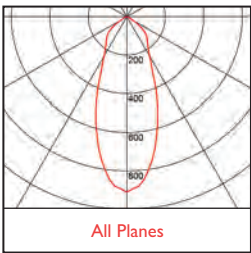
152 DLOR: 0.84

Photometric Information

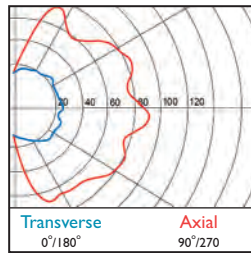
Our dedicated and experienced Lighting Design Consultants can assist and advise on your lighting control requirements. We always consider the well-being, economic and energy related prerequisites of the Client



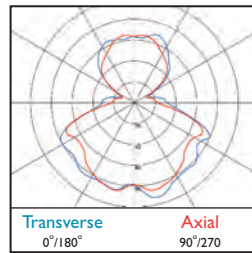
153 DLOR: 0.80



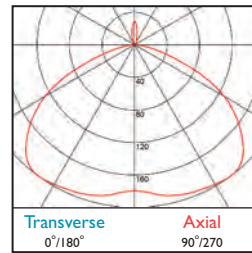
154 DLOR: 0.73



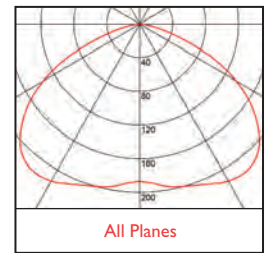
156 ULOR: 0.20 DLOR: 0.42



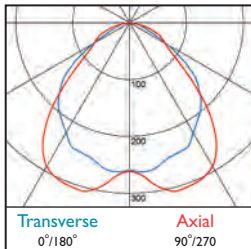
157 ULOR: 0.22 DLOR: 0.41



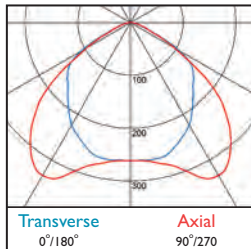
171 ULOR: 0.02 DLOR: 0.70



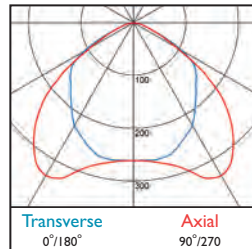
176 DLOR: 0.75



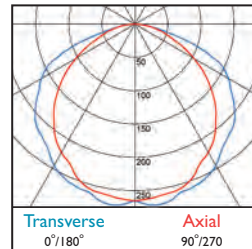
197 DLOR: 0.72



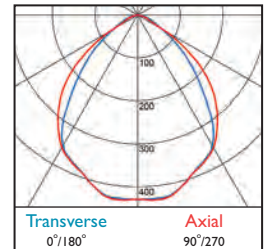
198 DLOR: 0.82



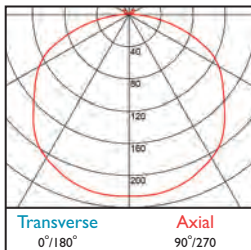
199 DLOR: 0.86



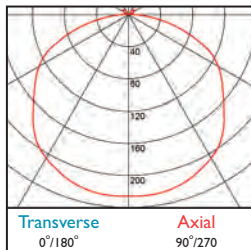
223 DLOR: 0.83



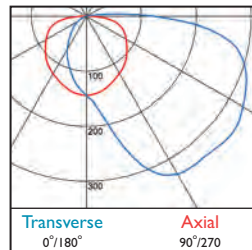
351 DLOR: 0.91



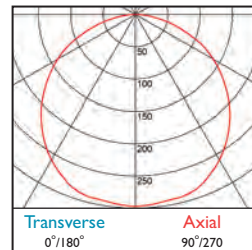
354 DLOR: 0.73



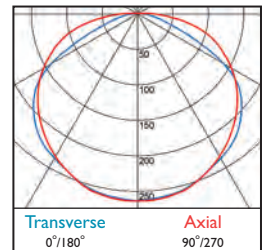
356 DLOR: 0.73



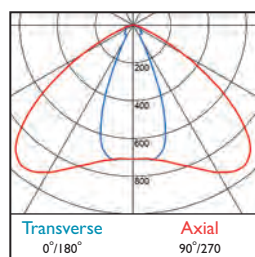
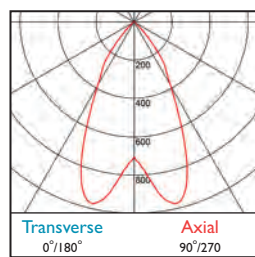
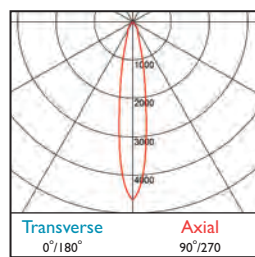
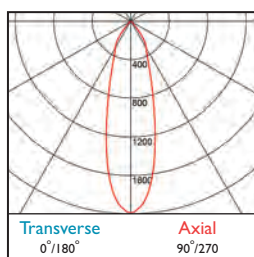
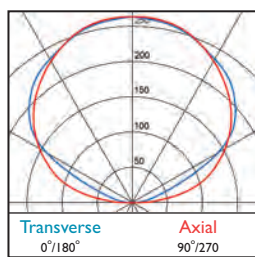
358 DLOR: 0.86



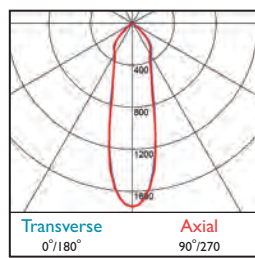
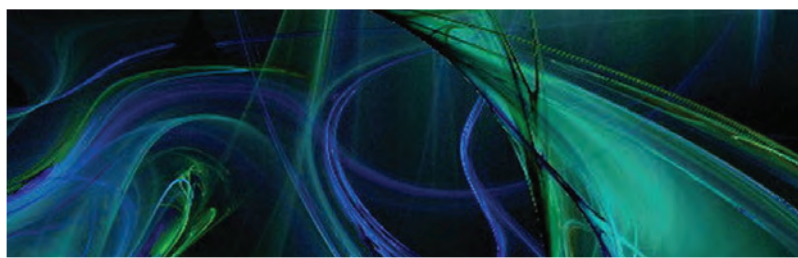
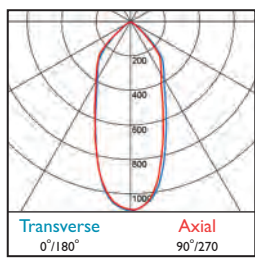
359 DLOR: 0.89



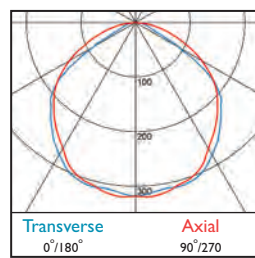
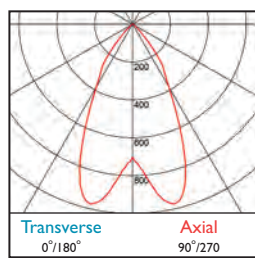
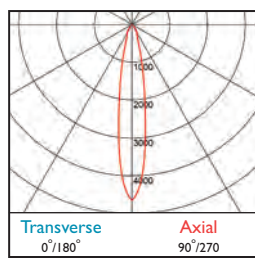
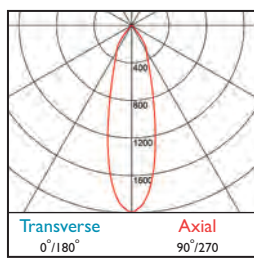
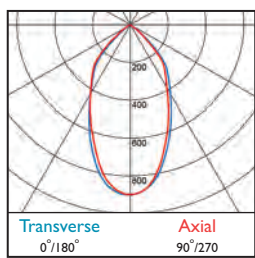
360 DLOR: 0.87



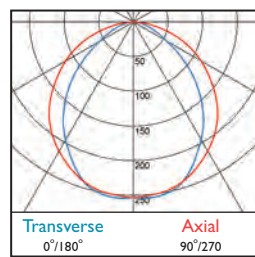
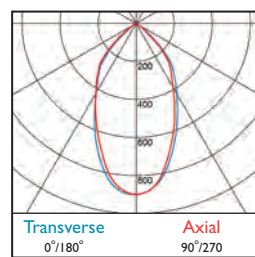
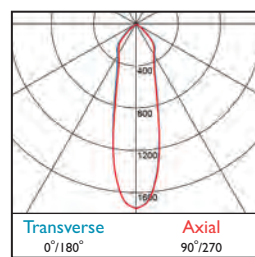
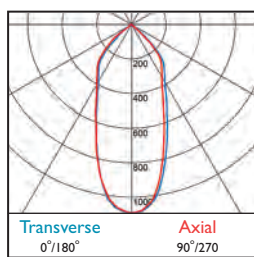
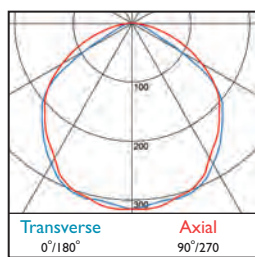
361 DLOR: 0.87 **362-363** DLOR: 0.81 **364-365** DLOR: 0.83 **366-367** DLOR: 0.86 **368** DLOR: 1.00



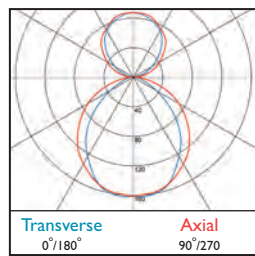
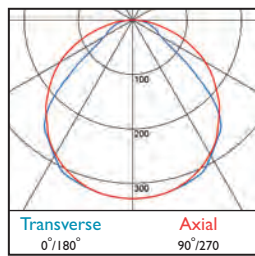
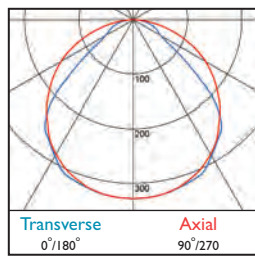
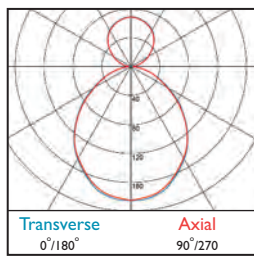
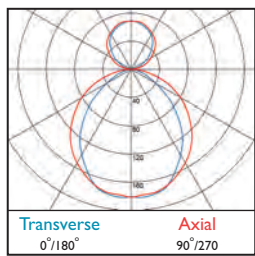
374 DLOR: 0.90 **375** DLOR: 0.91



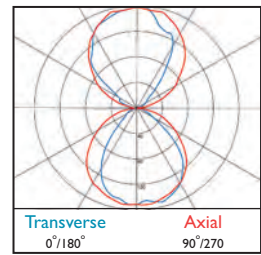
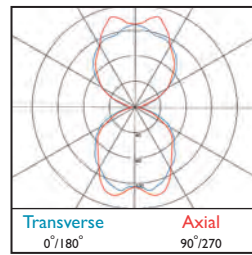
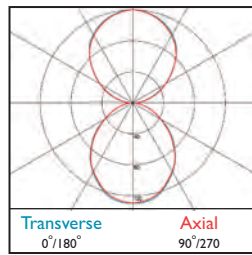
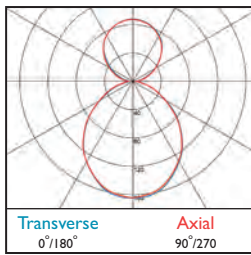
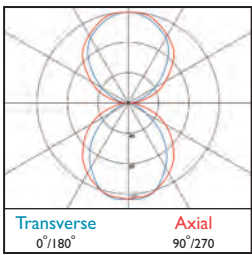
376 DLOR: 0.90 **377-378** DLOR: 0.81 **379-380** DLOR: 0.83 **381-382** DLOR: 0.86 **383** DLOR: 0.86



384 DLOR: 0.86 **385** DLOR: 0.90 **386** DLOR: 0.91 **387** DLOR: 0.90 **388-392** DLOR: 0.61



393-397 ULOR: 0.18 DLOR: 0.44 **399** ULOR: 0.18 DLOR: 0.44 **400** ULOR: 0.24 DLOR: 0.39 **402** DLOR: 0.87 **403-407** ULOR: 0.24 DLOR: 0.39



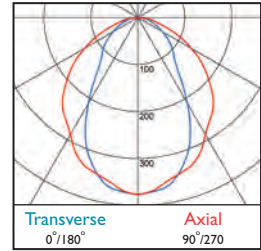
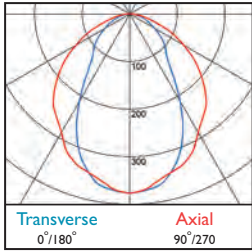
408-412 ULOR: 0.32 DLOR: 0.31

413 ULOR: 0.39 DLOR: 0.23

414 ULOR: 0.31 DLOR: 0.32

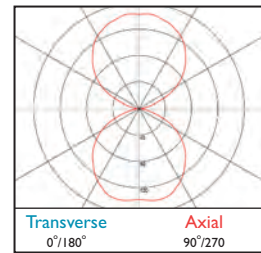
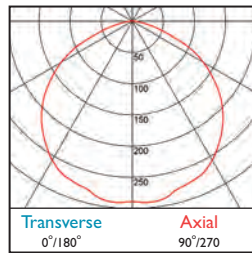
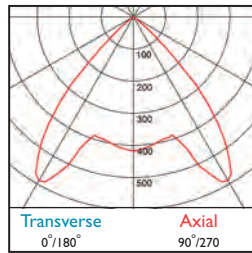
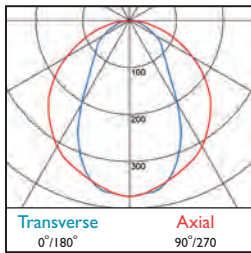
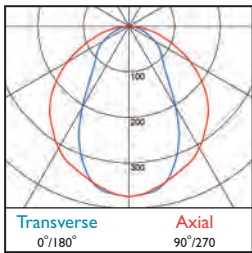
415 ULOR: 0.38 DLOR: 0.38

417 ULOR: 0.37 DLOR: 0.37



418 DLOR: 0.71

419 DLOR: 0.71



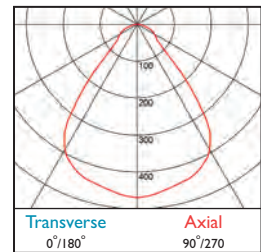
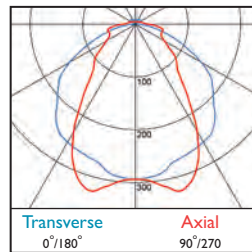
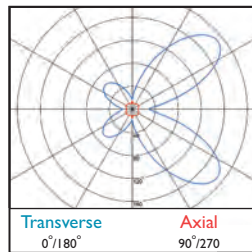
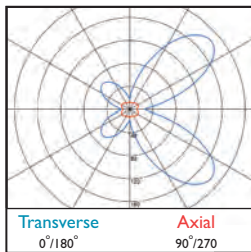
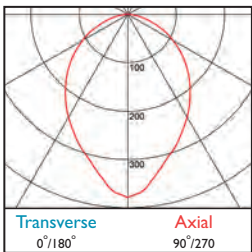
420 DLOR: 0.74

421 DLOR: 0.74

424 DLOR: 0.87

426 DLOR: 0.84

427 DLOR: 0.41



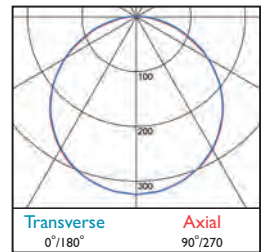
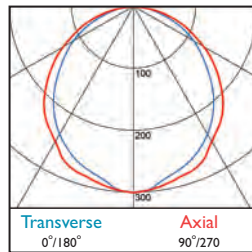
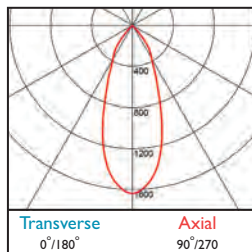
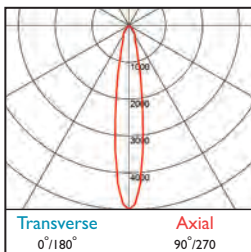
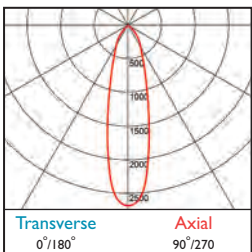
428 DLOR: 0.78

432 ULOR: 0.37 DLOR: 0.36

433 ULOR: 0.36 DLOR: 0.37

434 ULOR: 0.05 DLOR: 0.75

435 DLOR: 0.80



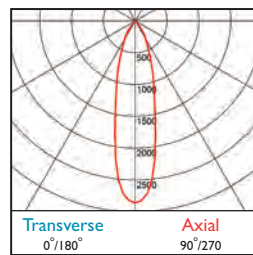
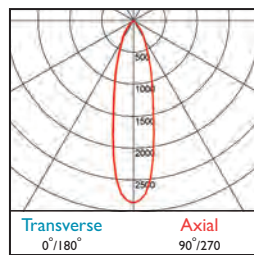
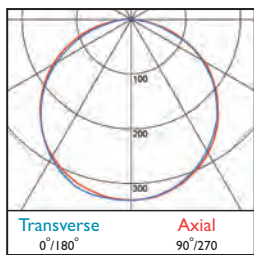
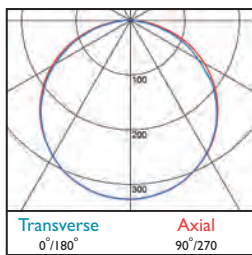
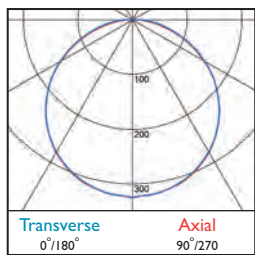
436/439 DLOR: 0.88

437/440 DLOR: 0.99

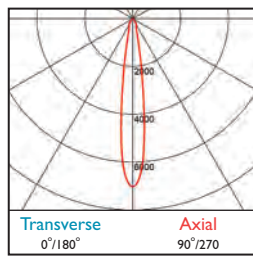
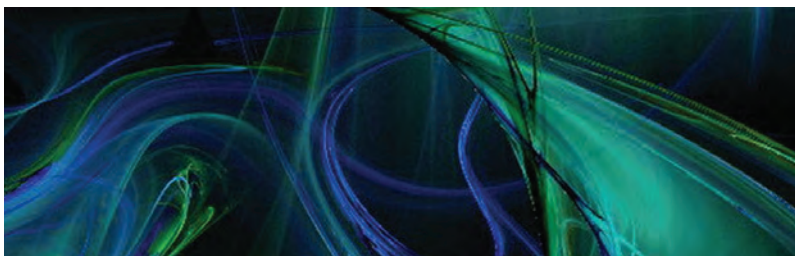
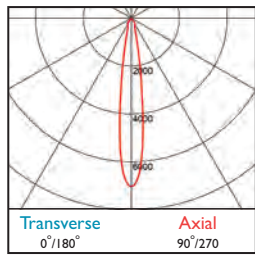
438/441 DLOR: 0.88

442 DLOR: 0.81

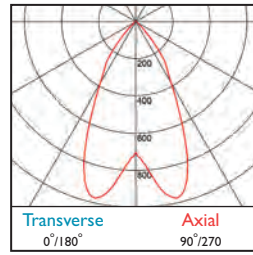
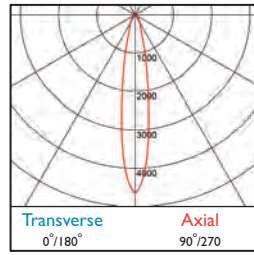
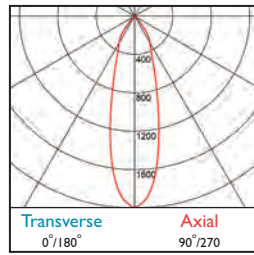
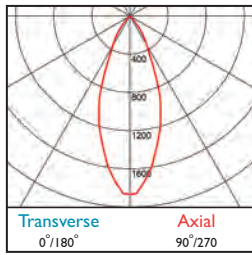
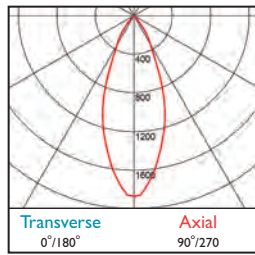
443 DLOR: 1.00



444 DLOR: 1.00 | **445** DLOR: 1.00 | **446** DLOR: 1.00 | **447** DLOR: 0.92 | **448** DLOR: 0.92



449 DLOR: 0.92 | **450** DLOR: 0.92



451 DLOR: 0.90 | **452** DLOR: 0.90 | **453-454** DLOR: 0.81 | **455-456** DLOR: 0.83 | **457-458** DLOR: 0.86



Learning Characteristics

Digital Serial Interface

DSI Digital Serial Interface

For use with gear types F & G



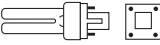




| | | | | | |
|-------------------------------|---------------|-------|---|----------|-----------------------|
| DSI (Dimming without sensors) | 230 x 88 x 50 | LD624 | A | INTO I I | (Maximum 50 ballasts) |
| DSI (Dimming with sensors) | 230 x 88 x 50 | LD625 | A | INTO I I | (Maximum 25 ballasts) |

230V
50Hz

IP
20

1.10 kg

Lamp Characteristics

| | Wattage | Cap | Angle | Dimension mm | Lumens | Intensity | Efficacy | Colour | Average Life | Osram Code | Philips Code | |
|--|---------|-----|---------|--------------|-----------|-----------|----------|--------|-----------------|------------|--------------|--------|
| | W | | | | lm | cd | lm/W | K | t _{th} | | | |
|  LED | LED | 7 | GX53 | - | 75 ϕ | 520 | - | 60.0 | 2800 | 15K | Megaman | 147961 |
| | LED | 7 | GX53 | - | 75 ϕ | 520 | - | 60.0 | 4000 | 15K | Megaman | 147534 |
| | LED | 7 | GU10 | 35 | 50 ϕ | 500 | 650 | 71.4 | 2800 | 50K | Megaman | 141751 |
| | LED | 7 | GU10 | 35 | 50 ϕ | 500 | 650 | 71.4 | 4000 | 50K | Megaman | 141469 |
|  Metal Halide | MHC | 20 | G8.5 | — | 81 L | 1700 | — | 71.4 | 3000 | 12000 | PB20TCW | — |
| | MHC | 35 | G8.5 | — | 81 L | 3400 | — | 87.2 | 3000 | 12000 | PB35TCW | 202277 |
| | MHC | 35 | G8.5 | — | 81 L | 3200 | — | 82.1 | 4200 | 12000 | PB35TCN | — |
| | MHC | 70 | G8.5 | — | 81 L | 6900 | — | 87.3 | 3000 | 12000 | PB70TCW | 201676 |
| | MHC | 70 | G8.5 | — | 81 L | 6600 | — | 83.5 | 4200 | 12000 | PB70TCN | — |
|  Fluorescent (4 Pin) | PLC | 18 | G24q-2 | — | 146 L | 1200 | — | 61.5 | 3000 | 10000 | DDE183 | 623331 |
| | PLC | 18 | G24q-2 | — | 146 L | 1200 | — | 61.5 | 4000 | 10000 | DDE184 | 623348 |
| | PLC | 26 | G24q-3 | — | 165 L | 1800 | — | 67.9 | 3000 | 10000 | DDE263 | 623355 |
| | PLC | 26 | G24q-3 | — | 165 L | 1800 | — | 67.9 | 4000 | 10000 | DDE264 | 623362 |
|  Fluorescent | PLL | 40 | 2G11 | — | 535 L | 3500 | — | 76.1 | 3000 | 10000 | DL4083 | 610942 |
| | PLL | 40 | 2G11 | — | 535 L | 3500 | — | 76.1 | 4000 | 10000 | DL4084 | 610973 |
| | PLL | 55 | 2G11 | — | 535 L | 4800 | — | 78.7 | 3000 | 10000 | DL5583 | 615411 |
| | PLL | 55 | 2G11 | — | 535 L | 4800 | — | 78.7 | 4000 | 10000 | DL5584 | 615428 |
| | PLL | 80 | 2G11 | — | 568 L | 6000 | — | 65.9 | 3000 | 10000 | DL8083 | 867100 |
| | PLL | 80 | 2G11 | — | 568 L | 6000 | — | 65.9 | 4000 | 10000 | DL8084 | 867124 |
|  Fluorescent | PLT | 32 | GX24q-3 | — | 129 L | 2400 | — | 69.6 | 3000 | 10000 | DTE323 | 611284 |
| | PLT | 32 | GX24q-3 | — | 129 L | 2400 | — | 69.6 | 4000 | 10000 | DTE324 | 611314 |
| | PLT | 42 | GX24q-4 | — | 150 L | 3270 | — | 71.1 | 3000 | 10000 | DTE423 | 611345 |
| | PLT | 42 | GX24q-4 | — | 150 L | 3270 | — | 71.1 | 4000 | 10000 | DTE424 | 611376 |
|  Fluorescent | TFL | 40 | 2GX13 | — | 300 L | 3200 | — | 74.4 | 3000 | 16000 | FC4083 | 640970 |
| | TFL | 40 | 2GX13 | — | 300 L | 3200 | — | 74.4 | 4000 | 16000 | FC4084 | 642233 |
| | TFL | 55 | 2GX13 | — | 300 L | 4200 | — | 70.0 | 3000 | 16000 | FC5583 | 642790 |
| | TFL | 55 | 2GX13 | — | 300 L | 4200 | — | 70.0 | 4000 | 16000 | FC5584 | 642516 |
|  Fluorescent | TFL | 14 | G5 | — | 549 L | 1200 | — | 76.2 | 3000 | 20000 | FHI483 | 639387 |
| | TFL | 14 | G5 | — | 549 L | 1200 | — | 76.2 | 4000 | 20000 | FHI484 | 639400 |
| | TFL | 14 | G5 | — | 549 L | 1100 | — | 69.8 | 6500 | 20000 | FHI486 | 710093 |
| | TFL | 24 | G5 | — | 549 L | 1750 | — | 68.6 | 3000 | 20000 | FQ2483 | 639585 |
| | TFL | 24 | G5 | — | 549 L | 1750 | — | 68.6 | 4000 | 20000 | FQ2484 | 639609 |
| | TFL | 24 | G5 | — | 549 L | 1600 | — | 62.7 | 6500 | 20000 | FQ2486 | 643933 |

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| 444 | Polycarbonate - Sculpted Diffuser + Neptune Blue Insert | 49, 195, 237, 261 | | | |
| 446 | Polycarbonate - Sculpted Diffuser + Acid Green Insert | 49, 195, 237, 261 | | | |



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