



# Concord

LED LIGHTING  
SOLUTIONS  
VOLUME 2

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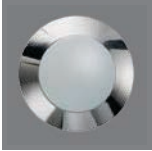
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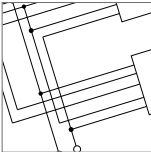
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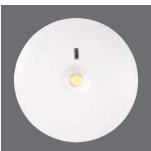
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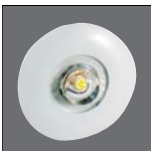
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0041546	100
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# About Havells-Sylvania



**37 branches of representative offices**

**100 years of expertise**

**4000 employees in over 37 countries**

## Your global partner for full spectrum lighting solutions

Formed in April 2007, Havells-Sylvania is owned by Havells India Ltd, a US\$ Billion plus company. With 94 branches and representative offices worldwide, and over 8,000 employees working in more than 50 countries; Havells has grown rapidly since its humble beginnings in Delhi in 1958. Havells has eighteen manufacturing plants in India, Europe, Latin America and Africa; producing globally acclaimed products.

### Concord

Concord part of the brand portfolio of the Havells-Sylvania company group and is one of Europe's most respected Architectural lighting brands for Retail and Museum lighting. With a strong manufacturing base in the UK, Concord is renowned for its strong design ethos, high technical performance and aesthetic form. Concord focuses on bringing lighting solutions to meet the needs of top end-users, property developers, architects and lighting designers.

### Warranty

Concord LED products come with a 5 year warranty. Please visit [www.concord-lighting.com](http://www.concord-lighting.com) for further information.

**2010 Stadium LED**



**2011 Beacon Muse LED**



**2012 Performance Cone LED**



**2013 Beacon Projector**



**2013 Glace**



**2013 LyteLab**

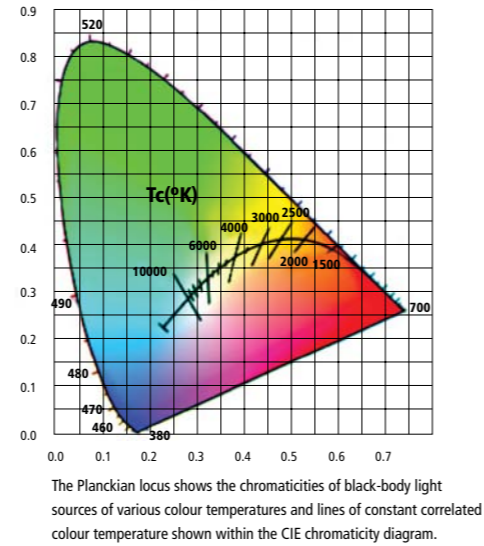


# Concord LED expertise

## Colour Temperature

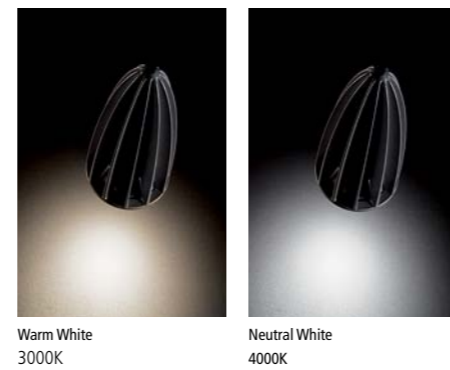
Colour temperature is a characteristic of visible light that plays a significant role in lighting applications. The colour temperature of a light source is the temperature of a perfect black-body radiator that radiates light of a similar appearance to that of the light source. The colour temperature is measured in units of absolute temperature; Kelvin (K).

Colour temperature works paradoxically to our cultural associations with colour, red as hot and blue as cold. On the black-body curve, blue occurs at higher temperatures than red. A good example is a candle which has a warm red orange appearance but in fact has a low Kelvin temperature, 1850 K. Therefore higher colour temperatures (5000 K more) are called cool colours (blueish white); lower colour temperatures (2700 – 3000 K) are called warm colours (yellowish white through red).



## Colour Correlated Temperature (CCT)

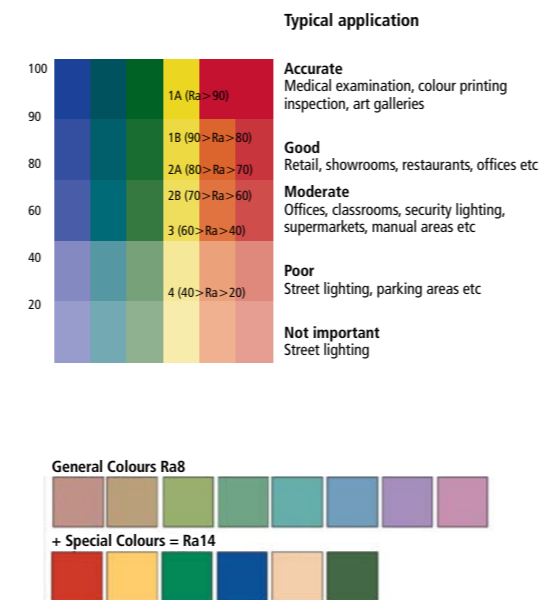
An incandescent light bulb is very close to a perfect black-body radiator, so its colour temperature is basically the temperature of the filament. However many light sources, such as fluorescent tubes or high intensity discharge lamps, emit light by processes other than thermal radiation and therefore it is not possible to apply the black-body spectrum. For these light sources it is possible to assign what is known as a colour correlated temperature (CCT). The CCT is the colour temperature of a black-body (Planckian) radiator which most closely matches the colour of the light emitted from the lamp.



## Colour Rendering Index (CRI)

The colour rendering of a light source is an indicator of its ability to realistically reproduce the colour of an object. The chart illustrates our ability to accurately determine colour depending on the colour rendering properties of the light source. The higher the colour rendering index (on a scale of 0 to 100) of the source the better our ability to perceive differences in colour, which is a considerable aid to highlighting fashion products and effective display of coloured artworks.

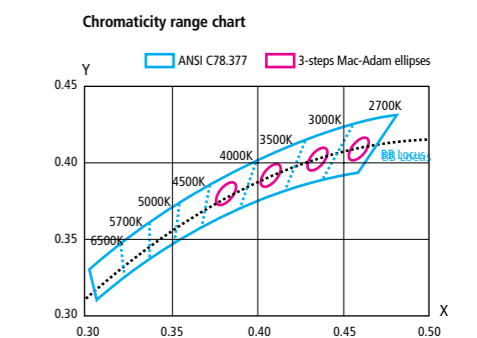
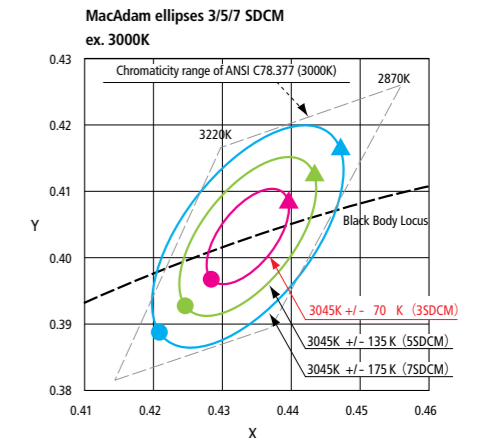
The CIE colour rendering index (CRI) is a method to determine how well a light source's illumination of eight standardised colour patches compares to the illumination provided by a reference source. At Ra (8) the perceived colour shift of eight reference colours is measured as a percentage and averaged to give one number. However it is currently understood that due to the spectral power distribution of LED's that instead of using the standard Ra8 it is important to include 7 additional colours which include red, yellow, blue & green and use Ra14 to ensure better results.



## Binning

The term binning refers to the variations which occur within a single production batch of LED's such as chromaticity, lumen output and forward voltage. It is important that a specific bin has been identified and selected to ensure a uniform and constantly even lighting installation is achieved. If all the LED's were selected from one production batch and used in the same luminaire or installation, there would be a mix of colour temperatures and brightness levels. For the lighting manufacturer/designer binning is an essential part of LED specification.

MacAdam ellipses methodology was created in 1943 for mathematically constructing ellipses around target points, something which became very useful for the lamp industry. ANSI C78.377 is now the standard for chromaticity specified by the American National Standards Institute. ANSI recommends that lamp manufacturers stay within a "4-step" ellipse. This means that, given a certain target point on the CIE diagram, manufacturers are given a fairly wide range of perceptible differences. The CILELED light engine products comply with the "3-step" MacAdam ellipses, meaning the chromaticity ranges are narrowed to approximately a ninth of the ANSI standard.

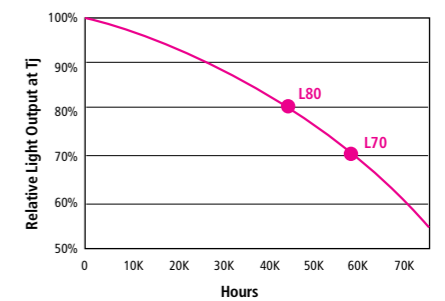


## Lumen Maintenance

Rated Lumen Maintenance Life (Lxx): The elapsed operating time over which the LED light source will the percentage, xx, of its initial light output.

- L80 = Time to 80% lumen maintenance, in hours
- L70 = Time to 70% lumen maintenance, in hours

For LED lamps, lumen maintenance is often shown as curves of relative lumen output over time for the LED under various operating conditions, such as drive current and junction temperature.



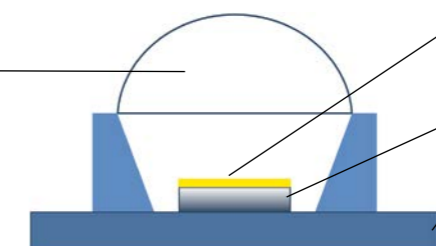
## Junction Temperature (Tj)

The temperature of the Junction of the LED die inside the LED lamp. Measuring the LED die temperature by direct mechanical means is difficult and may lead to erroneous results. It is recommended that the Tj is calculated with manufacturer's data through measurement of the temperature at the solder point (Tsp).

## Construction of an LED (Light Emitting Diode)

### Package and lens

- Protects the chip and phosphor
- Helps with light and heat extraction
- Key in determining LED lifetime
- Provides the perfect beam



### Luminescent phosphor layer

- Determines the colour point and colour point stability (colour shifting)

### LED chip

- Determines raw brightness and efficacy

### Circuit board

- Important for heat dissipation



# Product Showcase



## Glance

Glance represents the ultimate in ambient lighting. Featuring cutting edge LED technology this Super slim architecturally designed luminaire is the ultimate in minimalist design.

## Lytelab

Designed for museum and retail environments where mounting in high double height spaces is required. This ultra-powerful spotlight of 49 Watts offers real punch for the high end retailer or museum curator.

The industrial/raw statement of Lytelab makes it a force to be reckoned with.

## Beacon Projector

A fully flexible lighting solution offering the ultimate in adjustment for the lighting expert. Beacon Projector is available in three versions (Framing, Iris and Gobo) to easily adapt to different lighting schemes.

## Officelyte (LED)

An innovative modular fitting that allows the creation of lighting schemes that fully meets and surpasses current building codes and regulations.

## Lytepanel (LED flat panel)

LED based Lytepanel is the ideal solution for office and open space commercial environments. With a shallow depth Lytepanel is ideal for premises with limited ceiling space.

## Mini Continuum LED

New LED version of the hugely successful current T5 version. Designed to be minimalist and highly efficient when it comes to energy consumption, Mini Continuum LED is the future of linear LED lighting.

## Downlights

Concord was the original designer and manufacturer of architectural downlights and had a registered patent on the term "downlighter", which lasted from 1966 to 2006. Building upon this our new range of Ascent downlights provides a quality of light which is second to none.





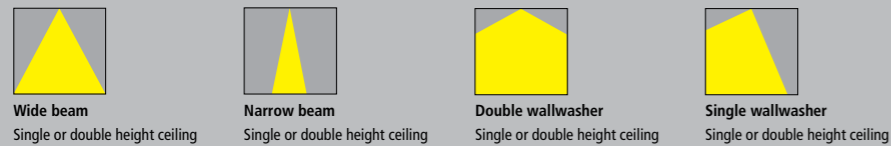
The ultimate solution for double height ceilings

## Ascent Performance Cone

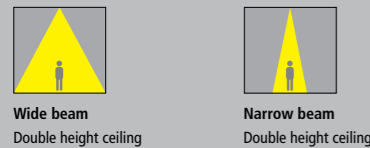
In areas with higher ceilings, there is increased likelihood that glare from downlighters will create visual discomfort in the space. It is therefore important that in glare sensitive areas downlights have reflectors with steep cut off angles.



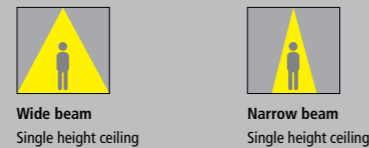
Can be used for single or double height ceilings



Can be used for double height ceilings



Can be used for single height ceilings

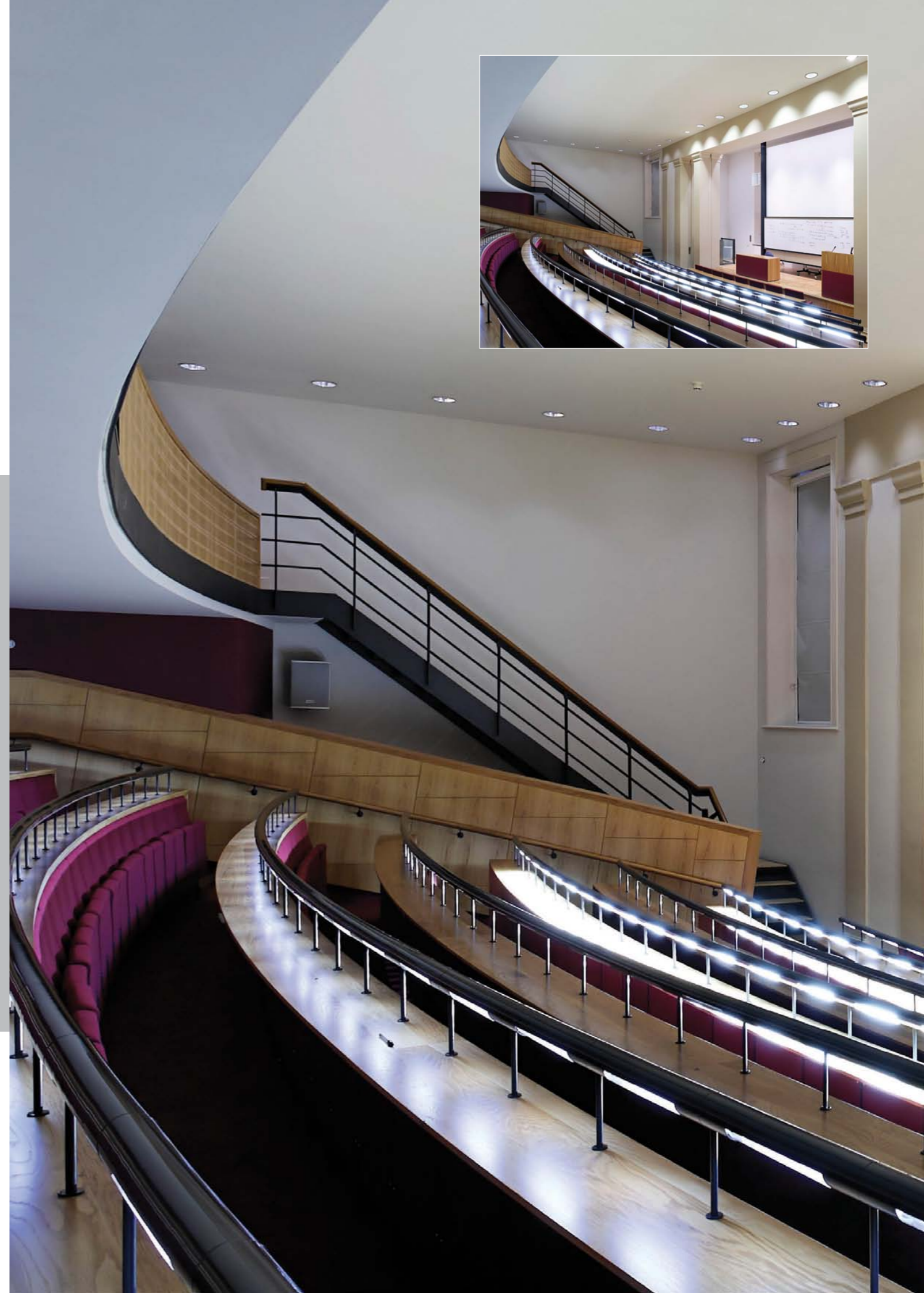


In theory, lighting spaces with high ceilings is not a difficult task, however the reality can be more complex. Walls need to be evenly and proportionately lit and general illumination and light distribution with the necessary spacing needs to be established. Accent of objects such as planters, statues, information booths or reception desks needs to be crisp and stand out from the general illumination; the standard 40° cut-off across the Performance Cone range provides a beam ideal for this type of accent lighting.

Darklight reflectors have pre-determined cut-off angles, which, within the reflector, ensure it appears dark. When using darklight reflectors the visual appearance in the ceiling is the same regardless of which lamps or beam angles are used, resulting in no direct or reflected glare.

### Application areas:

- Atria
- Cinemas
- Hospitality



## Ascent Performance Cone

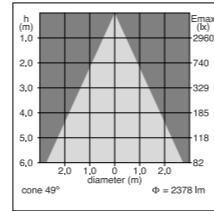
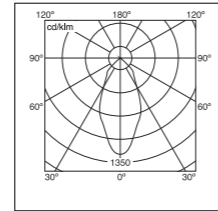


- Shielded cut-off angle of 40° is used to provide the perfect balance between horizontal and vertical illuminance
- Concord Performance Cone diffuser technology optimises visual comfort by effectively increasing the size of the light source
- The Cone glass diffuser produces a soft even beam ideal for ambient lighting of large open spaces such as airport terminals, hotel atria, museums and galleries
- 2100 fixture lumens a true equivalent to 100W low voltage capsule lamp using half the power consumption
- Long life, 50,000 hours plus @ 70% luminous flux, fit and forget maintenance free lighting solution



### PERFORMANCE CONE DOWNLIGHT ROUND – WIDE BEAM

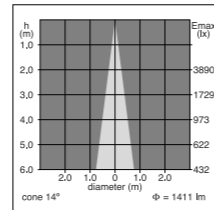
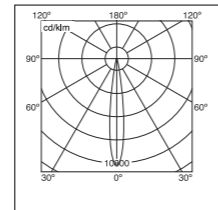
Description	3000K	4000K
LED 50W PC Downlight DALI	<b>2052600</b>	<b>2052616</b>



3000K

### PERFORMANCE CONE DOWNLIGHT SQUARE – WIDE BEAM

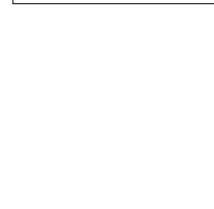
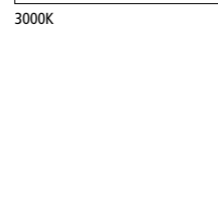
Description	3000K	4000K
LED 50W PC Downlight DALI	<b>2052604</b>	<b>2052620</b>



3000K

### PERFORMANCE CONE ACCENT DOWNLIGHT ROUND – NARROW BEAM

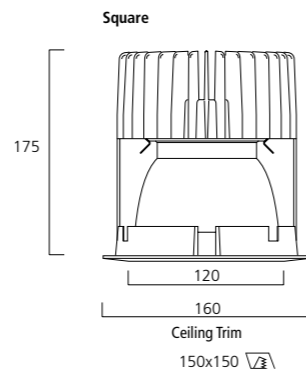
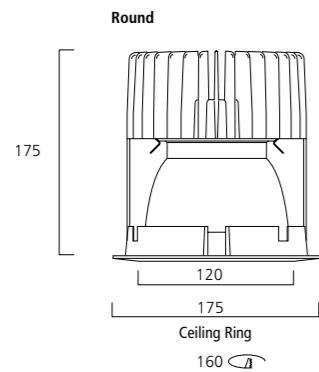
Description	3000K	4000K
LED 50W PC Accent Downlight DALI	<b>2052601</b>	<b>2052617</b>



3000K

### PERFORMANCE CONE ACCENT DOWNLIGHT SQUARE – NARROW BEAM

Description	3000K	4000K
LED 50W PC Accent Downlight DALI	<b>2052605</b>	<b>2052621</b>



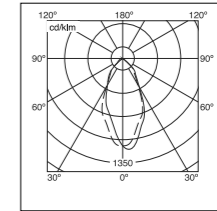
## Ascent Performance Cone Wallwasher

- Shielded cut-off angle of 40° is used to provide the perfect balance between horizontal and vertical illuminance
- Concord Performance Cone diffuser technology optimises visual comfort by effectively increasing the size of the light source thus reducing the luminance in the luminaires
- The Cone glass diffuser produces a soft even beam ideal for ambient lighting of large open spaces such as airport terminals, hotel atria, museums and galleries
- Long life, 50,000 hours plus @ 70% luminous flux, fit and forget maintenance free lighting solution
- 2100 fixture lumens a true equivalent to 100W low voltage capsule lamp using half the power consumption



### PERFORMANCE CONE WALLWASH SINGLE ROUND

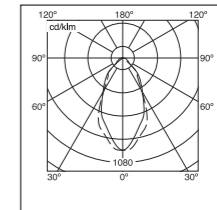
Description	3000K	4000K
LED 50W PC Wallwash Single DALI	<b>2052602</b>	<b>2052618</b>



3000K

### PERFORMANCE CONE WALLWASH SINGLE SQUARE

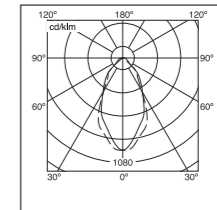
Description	3000K	4000K
LED 50W PC Wallwash Single DALI	<b>2052606</b>	<b>2052622</b>



3000K

### PERFORMANCE CONE WALLWASH DOUBLE DALI ROUND

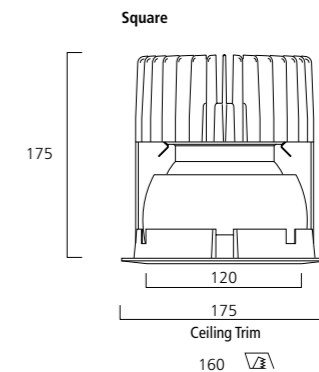
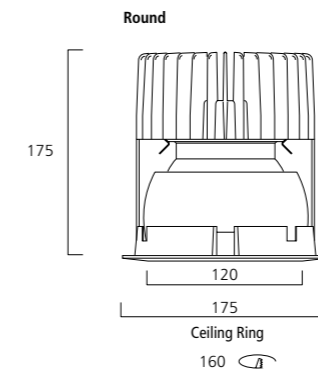
Description	3000K	4000K
LED 50W PC Wallwash Double DALI	<b>2052603</b>	<b>2052619</b>



3000K

### PERFORMANCE CONE WALLWASH DOUBLE DALI SQUARE

Description	3000K	4000K
LED 50W PC Wallwash Double DALI	<b>2052607</b>	<b>2052623</b>





## ASCENT 150

With over 40 years experience in downlighter technology, Concord introduces the Ascent 150 once again redefining the genre of Low Energy Downlights. Ascent 150 provides a true economic and highly efficient replacement for existing CFL downlights offering unprecedented efficiency and unmatched luminous flux.



## ASCENT 150

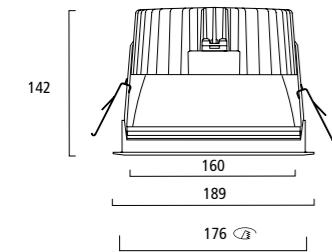
- Utilising cutting edge mid-power LED chip technology
- A true economic and efficient replacement for existing CF-L downlights
- UGR < 19 for workspace applications and very low glare < 200 Cd/m<sup>2</sup> @ 65° and above
- Complimentary Wallwasher for the provision of vertical illuminance
- 4000K neutral white and 3000k warm white CCT options with typical colour rendering index of Ra80
- Wide selection of decorative accessories including floating glass rings, IP44 & IP54 attachments
- **For accessories see page 22**

**Key:**

- DIM = 1-10V Dimmable
- DIM EMG = 1-10V Dimmable Emergency

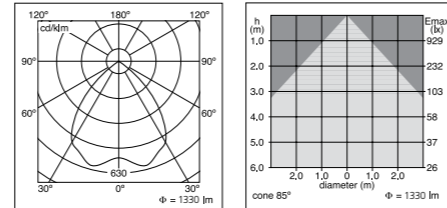


Ascent 150



### ASCENT 150 HIGH EFFICIENCY 17W – 3000K

Description	3000K
ASCENT150 17W HE 3K STD	2052636
ASCENT150 17W HE 3K 1-10V DIM	2052637
ASCENT150 17W HE 3K DALI	2052638
ASCENT150 17W HE 3K STD EMG	2052639
ASCENT150 17W HE 3K 1-10V DIM EMG	2052640
ASCENT150 17W HE 3K DALI EMG	2052641
ASCENT150 17W HE 3K EMPRO	2056152



4000K

Reflectances (%)	
C	70 70 70 50 50 50 30 30 0
W	50 30 10 50 30 10 50 30 10 0
F	20 20 20 20 20 20 20 20 0
Utilisation factors (%)	
0.75	78 73 69 77 72 69 76 72 69 67
1.00	87 82 78 85 81 77 83 80 77 75
1.25	92 87 84 90 86 83 88 85 82 80
1.50	95 91 88 93 89 87 91 88 85 83
2.00	100 96 93 97 94 92 95 92 90 87
2.50	103 100 97 100 97 95 97 95 93 89
3.00	105 102 100 102 99 97 98 96 95 91
4.00	108 105 103 104 102 100 100 99 97 93
5.00	109 107 105 105 103 102 101 100 99 94

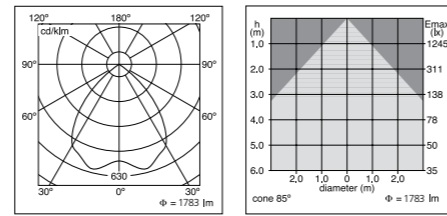
SHR NOM = 1.25    SHR MAX = 1.36

### ASCENT 150 HIGH EFFICIENCY 17W – 4000K

Description	4000K
ASCENT150 17W HE 4K STD	2050740
ASCENT150 17W HE 4K 1-10V DIM	2050741
ASCENT150 17W HE 4K DALI	2050742
ASCENT150 17W HE 4K STD EMG	2050743
ASCENT150 17W HE 4K 1-10V DIM EMG	2050744
ASCENT150 17W HE 4K DALI EMG	2050745
ASCENT150 17W HE 4K EMPRO	2056153

### ASCENT 150 HIGH OUTPUT 25W – 3000K

Description	3000K
ASCENT150 25W HO 3K STD	2052648
ASCENT150 25W HO 3K 1-10V DIM	2052649
ASCENT150 25W HO 3K DALI	2052650
ASCENT150 25W HO 3K STD EMG	2052651
ASCENT150 25W HO 3K 1-10V DIM EMG	2052652
ASCENT150 25W HO 3K DALI EMG	2052653
ASCENT150 25W HO 3K EMPRO	2056154



4000K

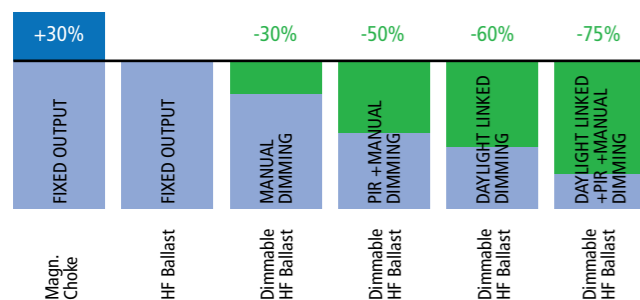
Reflectances (%)	
C	70 70 70 50 50 50 30 30 0
W	50 30 10 50 30 10 50 30 10 0
F	20 20 20 20 20 20 20 20 0
Utilisation factors (%)	
0.75	78 73 69 77 72 69 76 72 69 67
1.00	87 82 78 85 81 77 83 80 77 75
1.25	92 87 84 90 86 83 88 85 82 80
1.50	95 91 88 93 89 87 91 88 85 83
2.00	100 96 93 97 94 92 95 92 90 87
2.50	103 100 97 100 97 95 97 95 93 89
3.00	105 102 99 101 99 97 98 96 95 91
4.00	108 105 103 104 102 100 100 99 97 93
5.00	109 107 105 105 103 102 101 100 99 94

SHR NOM = 1.25    SHR MAX = 1.36

### ASCENT 150 HIGH OUTPUT 25W – 4000K

Description	4000K
ASCENT150 25W HO 4K STD	2051040
ASCENT150 25W HO 4K 1-10V DIM	2051041
ASCENT150 25W HO 4K DALI	2051042
ASCENT150 25W HO 4K STD EMG	2051043
ASCENT150 25W HO 4K 1-10V DIM EMG	2051044
ASCENT150 25W HO 4K DALI EMG	2051045
ASCENT150 25W HO 4K EMPRO	2056155

### ASCENT 150 Dimmable



### TECHNOLOGY COMPARISON TABLE

Description	Lamp/mA	Fixture Lumens	TOTAL W	TOTAL lm/W
Ascent 150 LED	HO 2203	2203	25	88
LED 150 TE	2x26W	2196	54	41

## ASCENT 150

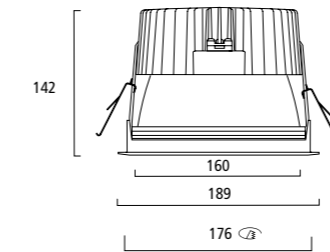
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- 4000K neutral white and 3000k warm white CCT options with typical colour rendering index of Ra80
- Wide selection of decorative accessories including floating glass rings, IP44 & IP54 attachments
- **For accessories see page 22**

**Key:**

- DIM = 1-10V Dimmable
- DIM EMG = 1-10V Dimmable Emergency

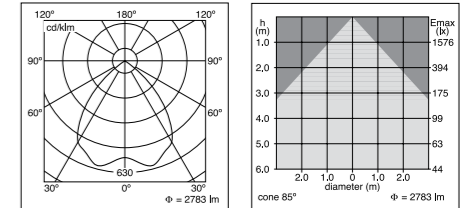


Ascent 150



### ASCENT 150 VERY HIGH OUTPUT 35W – 3000K

Description	3000K
ASCENT150 35W VHO 3K STD	2052624
ASCENT150 35W VHO 3K 1-10V DIM	2052625
ASCENT150 35W VHO 3K DALI	2052626
ASCENT150 35W VHO 3K STD EMG	2052627
ASCENT150 35W VHO 3K 1-10V DIM EMG	2052628
ASCENT150 35W VHO 3K DALI EMG	2052629
ASCENT150 35W VHO 3K EMPRO	2056156



4000K

Reflectances (%)	
C	70 70 70 50 50 50 30 30 0
W	50 30 10 50 30 10 50 30 10 0
F	20 20 20 20 20 20 20 20 0
Utilisation factors (%)	
0.75	78 73 69 77 72 69 76 72 69 67
1.00	87 82 78 85 81 77 83 80 77 75
1.25	92 87 84 90 86 83 88 85 82 80
1.50	95 91 88 93 89 87 91 88 85 83
2.00	100 96 93 97 94 92 95 92 90 87
2.50	103 100 97 100 97 95 97 95 93 89
3.00	105 102 100 102 99 97 98 96 95 91
4.00	108 105 103 104 102 100 100 99 97 93
5.00	109 107 105 105 103 102 101 100 99 94

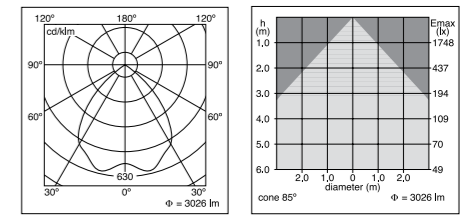
SHR NOM = 1.25    SHR MAX = 1.36

### ASCENT 150 VERY HIGH OUTPUT 35W – 4000K

Description	4000K
ASCENT150 35W VHO 4K STD	2051756
ASCENT150 35W VHO 4K 1-10V DIM	2051757
ASCENT150 35W VHO 4K DALI	2051758
ASCENT150 35W VHO 4K STD EMG	2051759
ASCENT150 35W VHO 4K 1-10V DIM EMG	2051760
ASCENT150 35W VHO 4K DALI EMG	2051761
ASCENT150 35W VHO 4K EMPRO	2056157

### ASCENT 150 VERY VERY HIGH OUTPUT 50W – 3000K

Description	3000K
ASCENT150 50W VVHO 3K STD	2052630
ASCENT150 50W VVHO 3K 1-10V DIM	2052631
ASCENT150 50W VVHO 3K DALI	2052632
ASCENT150 50W VVHO 3K STD EMG	2052633
ASCENT150 50W VVHO 3K 1-10V DIM EMG	2052634
ASCENT150 50W VVHO 3K DALI EMG	2052635
ASCENT150 50W VVHO 3K EMPRO	2056158



4000K

Reflectances (%)	
C	70 70 70 50 50 50 30 30 0
W	50 30 10 50 30 10 50 30 10 0
F	20 20 20 20 20 20 20 20 0
Utilisation factors (%)	
0.75	78 73 69 77 72 69 75 71 68 66
1.00	86 81 78 85 80 77 83 80 77 74
1.25	92 87 84 90 86 83 88 84 82 79
1.50	95 91 88 93 89 86 91 88 85 83
2.00	100 96 93 97 94 91 94 92 90 87
2.50	103 100 97 100 97 95 97 95 93 89
3.00	105 102 99 101 99 97 98 96 95 91
4.00	107 105 103 104 102 100 100 99 97 93
5.00	109 107 105 105 103 102 101 100 99 94

SHR NOM = 1.25    SHR MAX = 1.36

### ASCENT 150 VERY VERY HIGH OUTPUT 50W – 4000K

Description	4000K
ASCENT150 50W VVHO 4K STD	2050734
ASCENT150 50W VVHO 4K 1-10V DIM	2050735
ASCENT150 50W VVHO 4K DALI	2050736
ASCENT150 50W VVHO 4K STD EMG	2050737
ASCENT150 50W VVHO 4K 1-10V DIM EMG	2050738
ASCENT150 50W VVHO 4K DALI EMG	2050739
ASCENT150 50W VVHO 4K EMPRO	2056159

## ASCENT 150 White Reflector

- Utilising cutting edge mid-power LED chip technology
- A true economic and efficient replacement for existing CF-L downlights
- Complimentary Wallwasher for the provision of vertical illuminance
- 4000K neutral white and 3000k warm white CCT options with typical colour rendering index of Ra80
- Wide selection of decorative accessories including floating glass rings, IP44 & IP54 attachments
- **For accessories see page 22**

**Key:**

- DIM = 1-10V Dimmable
- DIM EMG = 1-10V Dimmable Emergency



Ascent 150 White Reflector



Ascent 150 White Reflector

**ASCENT 150 HIGH EFFICIENCY 17W WHITE REFLECTOR – 3000K**

Description	3000K
ASCENT150 17W HE 3K WHT STD	<b>2056034</b>
ASCENT150 17W HE 3K WHT 1-10V DIM	<b>2056035</b>
ASCENT150 17W HE 3K WHT DALI	<b>2056036</b>
ASCENT150 17W HE 3K WHT STD EMG	<b>2056037</b>
ASCENT150 17W HE 3K WHT 1-10V DIM EMG	<b>2056038</b>
ASCENT150 17W HE 3K WHT DALI EMG	<b>2056039</b>
ASCENT150 17W HE 3K WHT EMPRO	<b>2056040</b>

**ASCENT 150 HIGH EFFICIENCY 17W WHITE REFLECTOR – 4000K**

Description	4000K
ASCENT150 17W HE 4K WHT STD	<b>2056041</b>
ASCENT150 17W HE 4K WHT 1-10V DIM	<b>2056042</b>
ASCENT150 17W HE 4K WHT DALI	<b>2056043</b>
ASCENT150 17W HE 4K WHT STD EMG	<b>2056044</b>
ASCENT150 17W HE 4K WHT 1-10V DIM EMG	<b>2056045</b>
ASCENT150 17W HE 4K WHT DALI EMG	<b>2056046</b>
ASCENT150 17W HE 4K WHT EMPRO	<b>2056047</b>

**ASCENT 150 HIGH OUTPUT 25W WHITE REFLECTOR – 3000K**

Description	3000K
ASCENT150 25W HO 3K WHT STD	<b>2056062</b>
ASCENT150 25W HO 3K WHT 1-10V DIM	<b>2056063</b>
ASCENT150 25W HO 3K WHT DALI	<b>2056064</b>
ASCENT150 25W HO 3K WHT STD EMG	<b>2056065</b>
ASCENT150 25W HO 3K WHT 1-10V DIM EMG	<b>2056066</b>
ASCENT150 25W HO 3K WHT DALI EMG	<b>2056067</b>
ASCENT150 25W HO 3K WHT EMPRO	<b>2056068</b>

**ASCENT 150 HIGH OUTPUT 25W WHITE REFLECTOR – 4000K**

Description	4000K
ASCENT150 25W HO 4K WHT STD	<b>2056069</b>
ASCENT150 25W HO 4K WHT 1-10V DIM	<b>2056070</b>
ASCENT150 25W HO 4K WHT DALI	<b>2056071</b>
ASCENT150 25W HO 4K WHT STD EMG	<b>2056072</b>
ASCENT150 25W HO 4K WHT 1-10V DIM EMG	<b>2056073</b>
ASCENT150 25W HO 4K WHT DALI EMG	<b>2056074</b>
ASCENT150 25W HO 4K WHT EMPRO	<b>2056075</b>

**ASCENT 150 VERY HIGH OUTPUT 35W WHITE REFLECTOR – 3000K**

Description	3000K
ASCENT150 35W VHO 3K WHT STD	<b>2056090</b>
ASCENT150 35W VHO 3K WHT 1-10V DIM	<b>2056091</b>
ASCENT150 35W VHO 3K WHT DALI	<b>2056092</b>
ASCENT150 35W VHO 3K WHT STD EMG	<b>2056093</b>
ASCENT150 35W VHO 3K WHT 1-10V DIM EMG	<b>2056094</b>
ASCENT150 35W VHO 3K WHT DALI EMG	<b>2056095</b>
ASCENT150 35W VHO 3K WHT EMPRO	<b>2056096</b>

**ASCENT 150 VERY HIGH OUTPUT 35W WHITE REFLECTOR – 4000K**

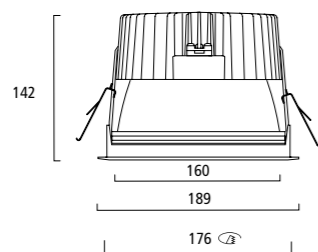
Description	4000K
ASCENT150 35W VHO 4K WHT STD	<b>2056097</b>
ASCENT150 35W VHO 4K WHT 1-10V DIM	<b>2056098</b>
ASCENT150 35W VHO 4K WHT DALI	<b>2056099</b>
ASCENT150 35W VHO 4K WHT STD EMG	<b>2056100</b>
ASCENT150 35W VHO 4K WHT 1-10V DIM EMG	<b>2056101</b>
ASCENT150 35W VHO 4K WHT DALI EMG	<b>2056102</b>
ASCENT150 35W VHO 4K WHT EMPRO	<b>2056103</b>

**ASCENT 150 VERY VERY HIGH OUTPUT 50W WHITE REFLECTOR – 3000K**

Description	3000K
ASCENT150 50W VVHO 3K WHT STD	<b>2056118</b>
ASCENT150 50W VVHO 3K WHT 1-10V DIM	<b>2056119</b>
ASCENT150 50W VVHO 3K WHT DALI	<b>2056120</b>
ASCENT150 50W VVHO 3K WHT STD EMG	<b>2056121</b>
ASCENT150 50W VVHO 3K WHT D1-10V DIM EMG	<b>2056122</b>
ASCENT150 50W VVHO 3K WHT DALI EMG	<b>2056123</b>
ASCENT150 50W VVHO 3K WHT EMPRO	<b>2056124</b>

**ASCENT 150 VERY VERY HIGH OUTPUT 50W WHITE REFLECTOR – 4000K**

Description	4000K
ASCENT150 50W VVHO 4K WHT STD	<b>2056125</b>
ASCENT150 50W VVHO 4K WHT 1-10V DIM	<b>2056126</b>
ASCENT150 50W VVHO 4K WHT DALI	<b>2056127</b>
ASCENT150 50W VVHO 4K WHT STD EMG	<b>2056128</b>
ASCENT150 50W VVHO 4K WHT 1-10V DIM EMG	<b>2056129</b>
ASCENT150 50W VVHO 4K WHT DALI EMG	<b>2056130</b>
ASCENT150 50W VVHO 4K WHT EMPRO	<b>2056131</b>



## ASCENT 150 Black Reflector

- Utilising cutting edge mid-power LED chip technology
- UGR < 19 for workspace applications and very low glare < 300 Cd/m<sup>2</sup> @ 65° and above
- Complimentary Wallwasher for the provision of vertical illuminance
- 4000K neutral white and 3000k warm white CCT options with typical colour rendering index of Ra80
- Wide selection of decorative accessories including floating glass rings, IP44 & IP54 attachments
- **For accessories see page 22**

**Key:**

- DIM = 1-10V Dimmable
- DIM EMG = 1-10V Dimmable Emergency



Ascent 150 Black Reflector



Ascent 150 Black Reflector

**ASCENT 150 HIGH EFFICIENCY 17W BLACK REFLECTOR – 3000K**

Description	3000K
ASCENT150 17W HE 3K BLK STD	<b>2056048</b>
ASCENT150 17W HE 3K BLK 1-10V DIM	<b>2056049</b>
ASCENT150 17W HE 3K BLK DALI	<b>2056050</b>
ASCENT150 17W HE 3K BLK STD EMG	<b>2056051</b>
ASCENT150 17W HE 3K BLK 1-10V DIM EMG	<b>2056052</b>
ASCENT150 17W HE 3K BLK DALI EMG	<b>2056053</b>
ASCENT150 17W HE 3K BLK EMPRO	<b>2056054</b>

**ASCENT 150 HIGH EFFICIENCY 17W BLACK REFLECTOR – 4000K**

Description	4000K
ASCENT150 17W HE 4K BLK STD	<b>2056055</b>
ASCENT150 17W HE 4K BLK 1-10V DIM	<b>2056056</b>
ASCENT150 17W HE 4K BLK DALI	<b>2056057</b>
ASCENT150 17W HE 4K BLK STD EMG	<b>2056058</b>
ASCENT150 17W HE 4K BLK 1-10V DIM EMG	<b>2056059</b>
ASCENT150 17W HE 4K BLK DALI EMG	<b>2056060</b>
ASCENT150 17W HE 4K BLK EMPRO	<b>2056061</b>

**ASCENT 150 HIGH OUTPUT 25W BLACK REFLECTOR – 3000K**

Description	3000K
ASCENT150 25W HO 3K BLK STD	<b>2056076</b>
ASCENT150 25W HO 3K BLK 1-10V DIM	<b>2056077</b>
ASCENT150 25W HO 3K BLK DALI	<b>2056078</b>
ASCENT150 25W HO 3K BLK STD EMG	<b>2056079</b>
ASCENT150 25W HO 3K BLK 1-10V DIM EMG	<b>2056080</b>
ASCENT150 25W HO 3K BLK DALI EMG	<b>2056081</b>
ASCENT150 25W HO 3K BLK EMPRO	<b>2056082</b>

**ASCENT 150 HIGH OUTPUT 25W BLACK REFLECTOR – 4000K**

Description	4000K
ASCENT150 25W HO 4K BLK STD	<b>2056083</b>
ASCENT150 25W HO 4K BLK 1-10V DIM	<b>2056084</b>
ASCENT150 25W HO 4K BLK DALI	<b>2056085</b>
ASCENT150 25W HO 4K BLK STD EMG	<b>2056086</b>
ASCENT150 25W HO 4K BLK D1-10V DIM EMG	<b>2056087</b>
ASCENT150 25W HO 4K BLK DALI EMG	<b>2056088</b>
ASCENT150 25W HO 4K BLK EMPRO	<b>2056089</b>

**ASCENT 150 VERY HIGH OUTPUT 35W BLACK REFLECTOR – 3000K**

Description	3000K
ASCENT150 35W VHO 3K BLK STD	<b>2056104</b>
ASCENT150 35W VHO 3K BLK 1-10V DIM	<b>2056105</b>
ASCENT150 35W VHO 3K BLK DALI	<b>2056106</b>
ASCENT150 35W VHO 3K BLK STD EMG	<b>2056107</b>
ASCENT150 35W VHO 3K BLK 1-10V DIM EMG	<b>2056108</b>
ASCENT150 35W VHO 3K BLK DALI EMG	<b>2056109</b>
ASCENT150 35W VHO 3K BLK EMPRO	<b>2056110</b>

**ASCENT 150 VERY HIGH OUTPUT 35W BLACK REFLECTOR – 4000K**

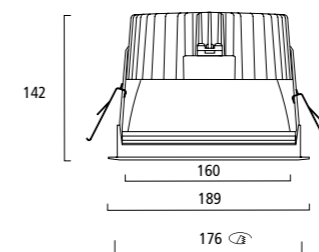
Description	4000K
ASCENT150 35W VHO 4K BLK STD	<b>2056111</b>
ASCENT150 35W VHO 4K BLK 1-10V DIM	<b>2056112</b>
ASCENT150 35W VHO 4K BLK DALI	<b>2056113</b>
ASCENT150 35W VHO 4K BLK STD EMG	<b>2056114</b>
ASCENT150 35W VHO 4K BLK 1-10V DIM EMG	<b>2056115</b>
ASCENT150 35W VHO 4K BLK DALI EMG	<b>2056116</b>
ASCENT150 35W VHO 4K BLK EMPRO	<b>2056117</b>

**ASCENT 150 VERY VERY HIGH OUTPUT 50W BLACK REFLECTOR – 3000K**

Description	3000K
ASCENT150 50W VVHO 3K BLK STD	<b>2056132</b>
ASCENT150 50W VVHO 3K BLK 1-10V DIM	<b>2056133</b>
ASCENT150 50W VVHO 3K BLK DALI	<b>2056134</b>
ASCENT150 50W VVHO 3K BLK STD EMG	<b>2056135</b>
ASCENT150 50W VVHO 3K BLK 1-10V DIM EMG	<b>2056136</b>
ASCENT150 50W VVHO 3K BLK DALI EMG	<b>2056137</b>
ASCENT150 50W VVHO 3K WHT EMPRO	<b>2056138</b>

**ASCENT 150 VERY VERY HIGH OUTPUT 50W BLACK REFLECTOR – 4000K**

Description	4000K
ASCENT150 50W VVHO 4K BLK STD	<b>2056139</b>
ASCENT150 50W VVHO 4K BLK 1-10V DIM	<b>2056140</b>
ASCENT150 50W VVHO 4K BLK DALI	<b>2056141</b>
ASCENT150 50W VVHO 4K BLK STD EMG	<b>2056142</b>
ASCENT150 50W VVHO 4K BLK 1-10V DIM EMG	<b>2056143</b>
ASCENT150 50W VVHO 4K BLK DALI EMG	<b>2056144</b>
ASCENT150 35W VVHO 4K BLK EMPRO	<b>2056145</b>





# ASCENT 150 Accessories



Silver Bezel

### 160MMØ ACCESSORIES ORDER SEPARATELY

Description	White Bezel	Silver Bezel	Weight
Bezel Only	2028614	2028038	0.11kg
Clear Glass IP44 Cover	2028034	2028600	0.20kg
Etched Glass IP44 Cover	2028036	2028602	0.20kg
Polycarbonate IP54 Cover	2039013		0.18kg
Floating Frosted Glass Ring	2038980		0.50kg
Floating Glass Ring Blue Gel	2038984		0.50kg
Floating Profile Cut Glass	2039021		0.56kg
Floating Glass Disc Fully Etched	2028060	2028608	0.45kg
Floating Frosted Cylinder Blue Ring	2034493	2034494	0.16kg
Floating Frosted Cylinder Clear Ring	2028549	2028612	0.16kg

\* Twin lamp luminaires only (Except Wallwashers)



Floating Glass Ring Blue Gel



White Bezel + IP44 Glass Cover



White Bezel + IP54 Vandal Resistant Cover



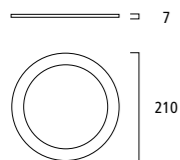
Floating Profile Cut Glass Disc



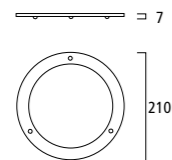
Floating Frosted Glass Ring



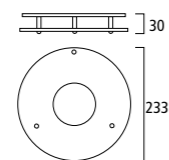
Frosted Drop Glass Cylinder Blue Ring



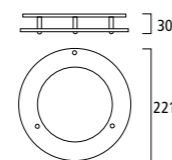
Bezel Only  
IP44 Glass Cover



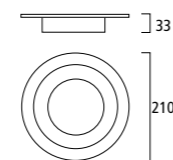
IP54 Vandal  
Resistant Cover



Profile Glass



Glass Ring  
Glass Disc



Drop Glass  
Cylinder

# ASCENT 150 Wallwasher



- Utilising cutting edge mid-power LED chip technology
- A true economic and efficient replacement for existing CF-L downlights suitable for a wide range of applications
- Long life, 50,000 hours plus at 70% luminous flux, fit and forget maintenance free lighting solution
- 4000K neutral white and 3000k warm white CCT options with typical colour rendering index of Ra80

### Key:

- 1A = 1 AMP
- DIM = 1-10V



### ASCENT 150 WALLWASHER VERY HIGH OUTPUT 35W – 3000K

Description	3000K
ASCENT150 WW 35W VHO 3K 1A STD	2052645
ASCENT150 WW 35W VHO 3K 1A DIM	2052646
ASCENT150 WW 35W VHO 3K 1A DALI	2052647

### ASCENT 150 WALLWASHER VERY HIGH OUTPUT 35W – 4000K

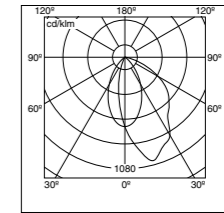
Description	4000K
ASCENT150 WW 35W VHO 4K 1A STD	2050749
ASCENT150 WW 35W VHO 4K 1A DIM	2050750
ASCENT150 WW 35W VHO 4K 1A DALI	2050751

### ASCENT 150 WALLWASHER VERY VERY HIGH OUTPUT 50W – 3000K

Description	3000K
ASCENT150 WW 50W VHO 3K 1.4A STD	2052724
ASCENT150 WW 50W VHO 3K 1.4A DIM	2052726
ASCENT150 WW 50W VHO 3K 1.4A DALI	2052728

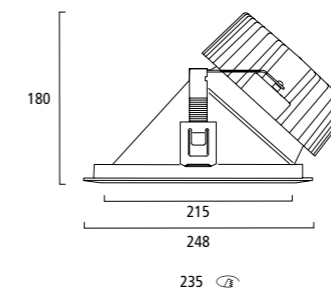
### ASCENT 150 WALLWASHER VERY VERY HIGH OUTPUT 50W – 4000K

Description	4000K
ASCENT150 WW 50W VHO 4K 1.4A STD	2052718
ASCENT150 WW 50W VHO 4K 1.4A DIM	2052720
ASCENT150 WW 50W VHO 4K 1.4A DALI	2052722



		Reflectances (%)									
C	70	70	70	50	50	30	30	30	0	0	0
W	50	30	10	50	30	10	50	30	10	0	0
F	20	20	20	20	20	20	20	20	20	20	0
k	Utilisation factors (%)										
0.75	66	60	55	65	59	55	64	58	54	52	
1.00	76	70	65	74	68	64	72	67	64	61	
1.25	82	76	72	80	75	71	78	74	70	67	
1.50	87	81	77	85	80	76	82	78	75	72	
2.00	93	88	84	90	86	83	88	84	81	78	
2.50	97	93	89	94	90	87	91	88	85	82	
3.00	100	96	93	97	93	91	93	91	88	85	
4.00	104	101	98	100	97	95	96	94	92	88	
5.00	106	103	101	102	100	98	98	97	95	90	
	SHR NOM = 1.00										SHR MAX = 1.04

Black and White versions available upon request.

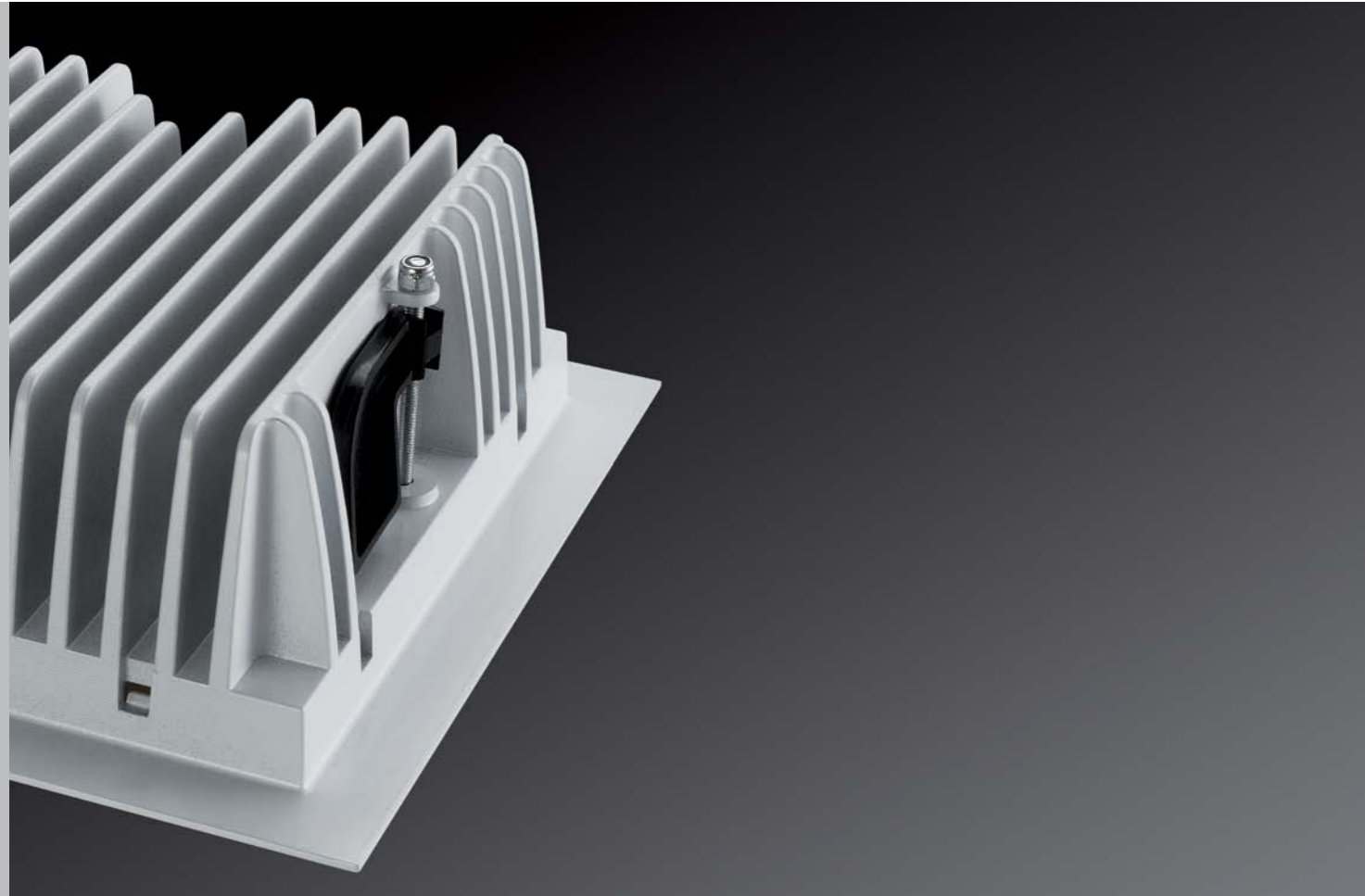




50mm mounting  
depth, perfect  
for shallow  
ceiling voids

## ASCENT 50

Ascent 50 is an efficient, super shallow LED downlighter with a depth of only 50mm, available in a round or square die cast aluminium housing it provides the perfect lighting solution for circulation spaces and areas with a shallow recessing depth.



### Application areas:

- Circulation
- Corridors
- Hospitality

## ASCENT 50

- Super slim highly efficient LED downlight with only 50mm recessing depth
- A true economic and efficient replacement for existing CF-L downlights
- Provides optimum efficiency with up to 74 lumens per circuit watt
- 3000K & 4000K CCT options typical CRI Ra80
- Round and Square Die Cast Housing options available
- Uniformity of design with the same housing 120mm aperture for all options (high efficiency, standard output, high output & very high output)



### ASCENT 50 12 LED HIGH EFFICIENCY ROUND

Description	3000K	4000K
ASCENT 50 12 LED STD HE	<b>2052654</b>	<b>2052686</b>
ASCENT 50 12 LED STD Emg HE	<b>2052655</b>	<b>2052687</b>
ASCENT 50 12 LED DALI HE	<b>2052662</b>	<b>2052694</b>
ASCENT 50 12 LED DALI Emg HE	<b>2052663</b>	<b>2052695</b>

### ASCENT 50 12 LED STANDARD OUTPUT ROUND

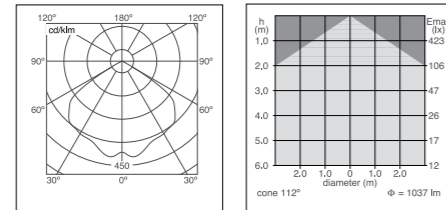
Description	3000K	4000K
ASCENT 50 12 LED STD SO	<b>2052656</b>	<b>2052688</b>
ASCENT 50 12 LED STD Emg SO	<b>2052657</b>	<b>2052689</b>
ASCENT 50 12 LED DALI SO	<b>2052664</b>	<b>2052696</b>
ASCENT 50 12 LED DALI Emg SO	<b>2052665</b>	<b>2052697</b>

### ASCENT 50 12 LED HIGH OUTPUT ROUND

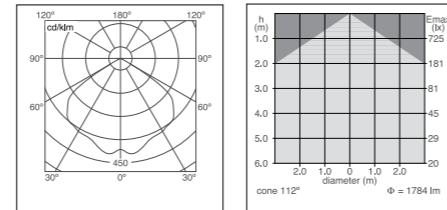
Description	3000K	4000K
ASCENT 50 12 LED STD HO	<b>2052658</b>	<b>2052690</b>
ASCENT 50 12 LED STD Emg HO	<b>2052659</b>	<b>2052691</b>
ASCENT 50 12 LED DALI HO	<b>2052666</b>	<b>2052698</b>
ASCENT 50 12 LED DALI Emg HO	<b>2052667</b>	<b>2052699</b>

### ASCENT 50 12 LED VERY HIGH OUTPUT ROUND

Description	3000K	4000K
ASCENT 50 12 LED STD VHO	<b>2052660</b>	<b>2052692</b>
ASCENT 50 12 LED STD Emg VHO	<b>2052661</b>	<b>2052693</b>
ASCENT 50 12 LED DALI VHO	<b>2052668</b>	<b>2052700</b>
ASCENT 50 12 LED DALI Emg VHO	<b>2052669</b>	<b>2052701</b>



4000K  
High Efficiency



4000K  
High Output

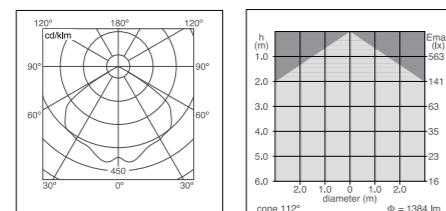


### ASCENT 50 12 LED HIGH EFFICIENCY SQUARE

Description	3000K	4000K
ASCENT 50 12 LED STD HE	<b>2052670</b>	<b>2052702</b>
ASCENT 50 12 LED STD Emg HE	<b>2052671</b>	<b>2052703</b>
ASCENT 50 12 LED DALI HE	<b>2052678</b>	<b>2052710</b>
ASCENT 50 12 LED DALI Emg HE	<b>2052679</b>	<b>2052711</b>

### ASCENT 50 12 LED STANDARD OUTPUT SQUARE

Description	3000K	4000K
ASCENT 50 12 LED STD SO	<b>2052672</b>	<b>2052704</b>
ASCENT 50 12 LED STD Emg SO	<b>2052673</b>	<b>2052705</b>
ASCENT 50 12 LED DALI SO	<b>2052680</b>	<b>2052712</b>
ASCENT 50 12 LED DALI Emg SO	<b>2052681</b>	<b>2052713</b>



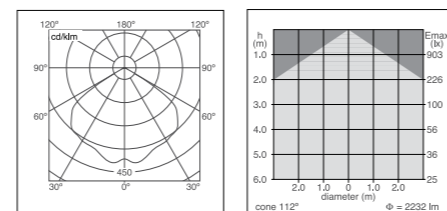
4000K  
Standard Output

### ASCENT 50 12 LED HIGH OUTPUT SQUARE

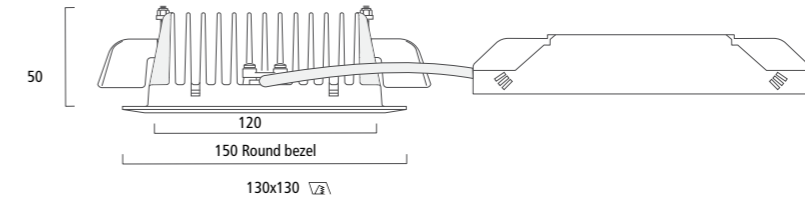
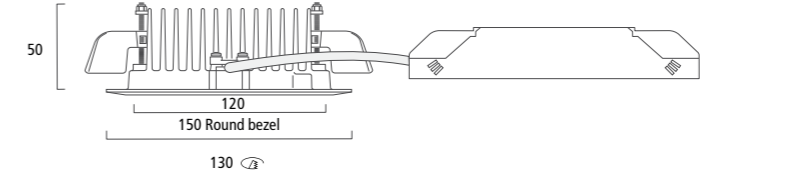
Description	3000K	4000K
ASCENT 50 12 LED STD HO	<b>2052674</b>	<b>2052706</b>
ASCENT 50 12 LED STD Emg HO	<b>2052675</b>	<b>2052707</b>
ASCENT 50 12 LED DALI HO	<b>2052682</b>	<b>2052714</b>
ASCENT 50 12 LED DALI Emg HO	<b>2052683</b>	<b>2052715</b>

### ASCENT 50 12 LED VERY HIGH OUTPUT SQUARE

Description	3000K	4000K
ASCENT 50 12 LED STD VHO	<b>2052676</b>	<b>2052708</b>
ASCENT 50 12 LED STD Emg VHO	<b>2052677</b>	<b>2052709</b>
ASCENT 50 12 LED DALI VHO	<b>2052684</b>	<b>2052716</b>
ASCENT 50 12 LED DALI Emg VHO	<b>2052685</b>	<b>2052717</b>



4000K  
Very High Output



Luminaire Description 3000K	Forward Current	Fixture Lumens	Total Circuit Watts	Lumens per Circuit Watt
ASCENT 50 High Efficiency	350mA	972	15w	65
ASCENT 50 Standard Output	500mA	1228	21w	58
ASCENT 50 High Output	700mA	1477	29w	51
ASCENT 50 Very High Output	1000mA	1656	42w	39

Luminaire Description 4000K	Forward Current	Fixture Lumens	Total Circuit Watts	Lumens per Circuit Watt
ASCENT 50 High Efficiency	350mA	1107	15w	74
ASCENT 50 Standard Output	500mA	1423	21w	68
ASCENT 50 High Output	700mA	1730	29w	60
ASCENT 50 Very High Output	1000mA	1990	42w	47

### ASCENT 50 ACCESSORIES 120mmØ Accessories Order separately

	White	Silver
Clear Glass IP44 Cover	<b>2028033</b>	<b>2028599</b>
Etched Glass IP44 Cover	<b>2028035</b>	<b>2028601</b>
Polycarbonate IP54 Cover	<b>2039012</b>	<b>2052226</b>

Accessories for round version only



Clear Glass IP44 Cover



Polycarbonate IP54 Cover

### TECHNOLOGY COMPARISON TABLE

Description	Lamp/mA	Fixture Lumens	TOTAL W	TOTAL TOTAL lm/W
<b>Ascent 50 LED</b>	SO 500mA	1423	21	68
<b>LED 100 TE</b>	1x26W	1188	27	44

## Beacon Recessed Adjustable LED

The Beacon Recessed Adjustable LED recessed spotlight introduces a new lighting dimension to retail and display space, both ranges meet the tough demands of these environments by providing good colour rendering, zero UV/IR radiation, reduction in maintenance costs and an energy saving solution.



### Application areas:

- Museums
- Galleries
- Hospitality
- Retail
- Hotels



## BRA LED Spot/Flood – 13W

- Energy efficient light source with far superior luminous flux per watt than existing Low Voltage Halogen
- Dimmable via Leading and Trailing edge and DALI as standard
- Fresnel lens for collimating narrow beam for accent lighting
- Beacon offers high CRI minimum 80 (typical 85) ideal for museums, galleries and high end shop lighting applications
- White and black variants with black adjustable body



Round Spot

### BRA 13W NON DIMMABLE 3000K

		White	Black
BRA LED 13W	Spt Round	2049474	2053571
BRA LED 13W	Spt Square	2049482	2053572
BRA LED 13W	Fld Round	2049475	2053573
BRA LED 13W	Fld Square	2049483	2053574

### BRA 13W NON DIMMABLE 4000K

		White	Black
BRA LED 13W	Spt Round	2049476	2053575
BRA LED 13W	Spt Square	2049484	2053576
BRA LED 13W	Fld Round	2049477	2053577
BRA LED 13W	Fld Square	2049485	2053578

### BRA 13W LEADING AND TRAILING EDGE 3000K

		White	Black
BRA LED 13W	Spt Round	2049478	2053579
BRA LED 13W	Spt Square	2049486	2053580
BRA LED 13W	Fld Round	2049479	2053581
BRA LED 13W	Fld Square	2049487	2053582

### BRA 13W LEADING AND TRAILING EDGE 4000K

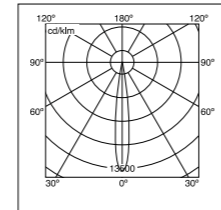
		White	Black
BRA LED 13W	Spt Round	2049480	2053583
BRA LED 13W	Spt Square	2049488	2053584
BRA LED 13W	Fld Round	2049481	2053585
BRA LED 13W	Fld Square	2049489	2053586

### BRA 13W DALI DIMMABLE 3000K

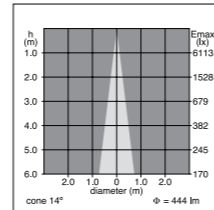
		White	Black
BRA LED 13W	Spt Round	2050752	2053587
BRA LED 13W	Spt Square	2050756	2053588
BRA LED 13W	Fld Round	2050753	2053589
BRA LED 13W	Fld Square	2050757	2053590

### BRA 13W DALI DIMMABLE 4000K

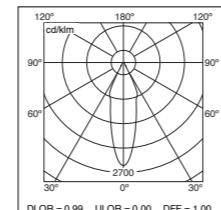
		White	Black
BRA LED 13W	Spt Round	2050754	2053591
BRA LED 13W	Spt Square	2020758	2053592
BRA LED 13W	Fld Round	2050755	2053593
BRA LED 13W	Fld Square	2050759	2053594



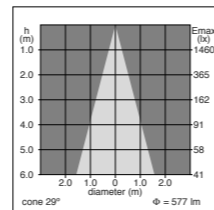
Spot - 3000K



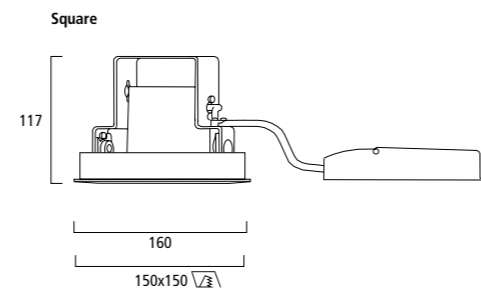
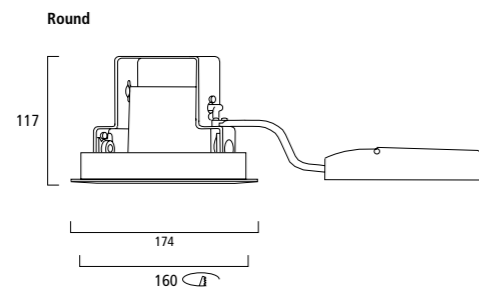
Spot - 3000K



Flood - 4000K



Flood - 4000K



## BRA LED Spot/Flood – 26W

- Energy efficient light source with far superior luminous flux per watt than existing Low Voltage Halogen
- Dimmable via Leading and Trailing edge and DALI as standard
- Fresnel lens for collimating narrow beam for accent lighting
- Beacon offers high CRI minimum 80 (typical 85) ideal for museums, galleries and high end shop lighting applications
- White and black variants with black adjustable body



Round Flood

### BRA 26W NON DIMMABLE 3000K

		White	Black
BRA LED 26W	Spt Round	2052879	2053595
BRA LED 26W	Spt Square	2052887	2053596
BRA LED 26W	Fld Round	2052880	2053597
BRA LED 26W	Fld Square	2052888	2053598

### BRA 26W NON DIMMABLE 4000K

		White	Black
BRA LED 26W	Spt Round	2052881	2053599
BRA LED 26W	Spt Square	2052889	2053600
BRA LED 26W	Fld Round	2052882	2053601
BRA LED 26W	Fld Square	2052890	2053602

### BRA 26W LEADING & TRAILING 3000K

		White	Black
BRA LED 26W	Spt Round	2052883	2053603
BRA LED 26W	Spt Square	2052891	2053604
BRA LED 26W	Fld Round	2052884	2053605
BRA LED 26W	Fld Square	2052892	2053606

### BRA 26W LEADING & TRAILING 4000K

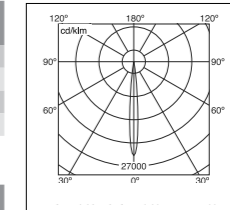
		White	Black
BRA LED 26W	Spt Round	2052885	2053607
BRA LED 26W	Spt Square	2052893	2053608
BRA LED 26W	Fld Round	2052886	2053609
BRA LED 26W	Fld Square	2052894	2053610

### BRA 26W DALI DIMMABLE 3000K

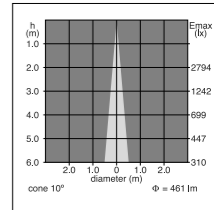
		White	Black
BRA LED 26W	Spt Round	2052903	2053611
BRA LED 26W	Spt Square	2052907	2053612
BRA LED 26W	Fld Round	2052904	2053613
BRA LED 26W	Fld Square	2052908	2053614

### BRA 26W DALI DIMMABLE 4000K

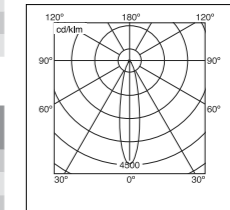
		White	Black
BRA LED 26W	Spt Round	2052905	2053615
BRA LED 26W	Spt Square	2052909	2053616
BRA LED 26W	Fld Round	2052906	2053617
BRA LED 26W	Fld Square	2052910	2053618



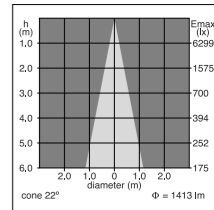
Spot - 3000K



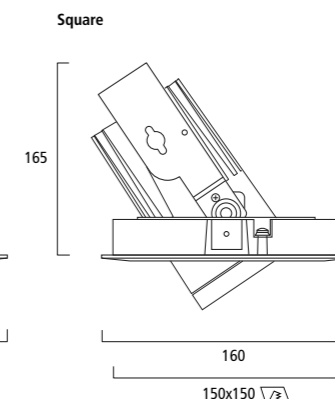
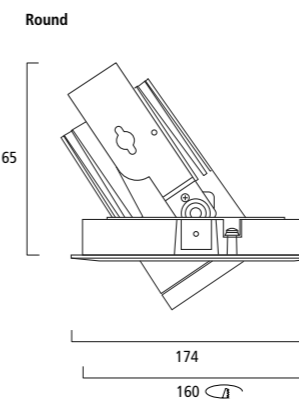
Spot - 3000K



Flood - 4000K



Flood - 4000K





## BRA Muse LED – 26W

- Adjustable optics provides wide flood 65 degrees which can be adjusted to 10 degree spot without the need for additional lenses and reflectors
- Energy efficient light source with far superior luminous flux per watt than existing Low Voltage Halogen
- Dimmable via Leading and Trailing edge and DALI as standard
- Beacon offers high CRI minimum 90 (typical 95) ideal for museums, galleries and high end shop lighting applications



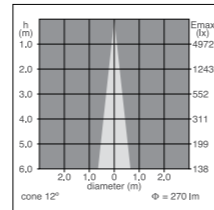
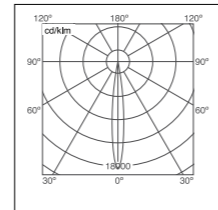
Round



Square

### BRA MUSE – NON DIMMABLE 3000K

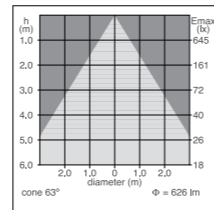
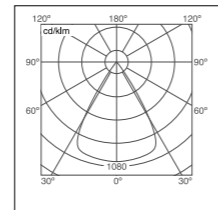
		White	Black
BRA MUSE 26W	Round	2052895	2053619
BRA MUSE 26W	Square	2052899	2053620



Spot - 3000K

### BRA MUSE – NON DIMMABLE 4000K

		White	Black
BRA MUSE 26W	Round	2052896	2053621
BRA MUSE 26W	Square	2052900	2053622



Flood - 3000K

### BRA MUSE – LEADING & TRAILING EDGE 3000K

		White	Black
BRA MUSE 26W	Round	2052897	2053623
BRA MUSE 26W	Square	2052901	2053624

### BRA MUSE – LEADING & TRAILING EDGE 4000K

		White	Black
BRA MUSE 26W	Round	2052898	2053625
BRA MUSE 26W	Square	2052902	2053626

### BRA MUSE – DALI DIMMABLE 3000K

		White	Black
BRA MUSE 26W	Round	2052911	2053627
BRA MUSE 26W	Square	2052913	2053628

### BRA MUSE – DALI DIMMABLE 4000K

		White	Black
BRA MUSE 26W	Round	2052912	2053629
BRA MUSE 26W	Square	2052914	2053630

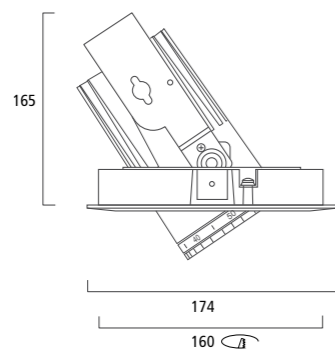
### ACCESSORIES

Beacon LED Coloured Gel Pack	2049498
Elongation Lens	2047193
Adjustable Barn Doors	2052940

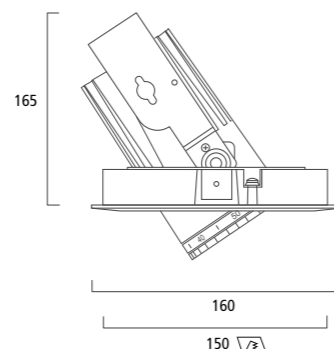


Adjustable Barn Doors

Round



Square



## Accent Downlights and Pendants

Concord accent downlights and pendants add a touch of elegance to any interior. Available in IP44 & IP65 versions with a wide choice of colour temperatures ranging from 3000K to 4000K. To suit differing installations trimmed, trimless or 'plaster up' models are standard within the range.





The perfect  
50 watt halogen  
downlight  
replacement

## Myriad V LED

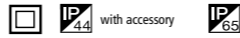
Myriad V Next Generation introduces new solid state 1x13W LED module downlights and pendants. The complete family is supported by a range of new accessories including square trims with deep frosted rings, micro and mini Kometa diffuser rings, flush plasterboard versions, architectural indirect glass dish attachments and glass ring stacks.



### Application areas:

- Circulation
- Receptions
- Retail
- Residential
- Education

# Myriad V LED



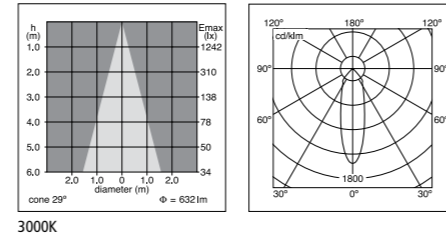
- New high output high efficiency LED downlight modules
- Energy efficient light source with far superior luminous flux per watt than existing Low Voltage Halogen
- IP44 & IP65 versions as standard options
- Wide choice of colour temperatures warm 3000K, neutral 4000K & cool 5000K
- Luminaires supplied complete with LED drivers
- Emergency versions passes through cut out
- New completely flush plaster up accessory ring for clean ceiling lines and smooth finish
- Total circuit power 15W



### 30° HOUSING ONLY

	3000K	4000K	5000K	Weight
Electronic	2050661	2050663	2050665	0.42kg
Electronic + Emergency	2050662	2050664	2050666	0.42kg
Dimmable	2049513	2049515	2049517	0.42kg
Dimmable + Emergency	2049514	2049516	2049518	0.42kg
DALI	2049519	2049521	2049523	0.42kg
DALI + Emergency	2049520	2049522	2049524	0.42kg

\* Requires Decorative Accessory – see page 25

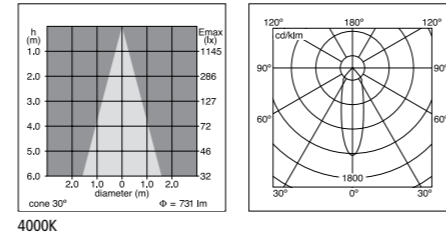


3000K



### 30° IP65 GLASS

White Bezel	3000K	4000K	5000K	Weight
Electronic	2050667	2050671	2050675	0.44kg
Electronic + Emergency	2050668	2050672	2050676	0.44kg
Dimmable	2049525	2049529	2049533	0.44kg
Dimmable + Emergency	2049526	2049530	2049534	0.44kg
DALI	2049537	2049541	2049545	0.44kg
DALI + Emergency	2049538	2049542	2049546	0.44kg

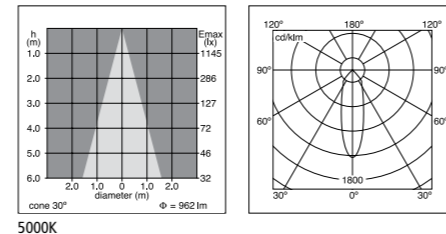


4000K



### 30° IP65 GLASS

Chrome Bezel	3000K	4000K	5000K	Weight
Electronic	2050669	2050673	2050677	0.44kg
Electronic + Emergency	2050670	2050674	2050678	0.44kg
Dimmable	2049527	2049531	2049535	0.44kg
Dimmable + Emergency	2049528	2049532	2049536	0.44kg
DALI	2049539	2049543	2049547	0.44kg
DALI + Emergency	2049540	2049544	2049548	0.44kg

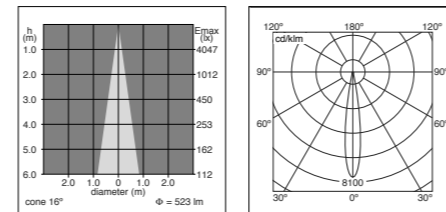


5000K

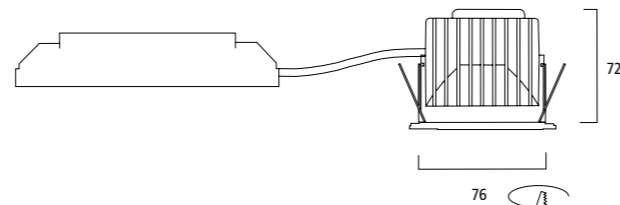


### OPTICAL ACCESSORIES

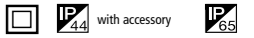
	White	Silver	Chrome
Myriad V LED Accent spot 10°	2052730	2052731	2052732



cone 16°



# Myriad V LED Accessories



- New high output high efficiency LED downlight modules
- Energy efficient light source with far superior luminous flux per watt than existing Low Voltage Halogen
- IP44 & IP65 versions as standard options
- Wide choice of colour temperatures warm 3000K, neutral 4000K & cool 5000K
- Luminaires supplied complete with LED drivers
- Emergency versions passes through cut out
- New completely flush plaster up accessory ring for clean ceiling lines and smooth finish
- Total circuit power 15W



### DECORATIVE ACCESSORIES – ROUND

	White	Silver	Bright Chrome	Gold
Kometa Ring	2049561	-	-	-
Bezel + Floating Micro Glass Stack	2049565	-	2049566	-
Bezel + Cover Glass	2017359	2017358	2017357	2017356
Beze + Opal Dish	2017375	2017374	2017373	2019080
Bezel + Floating Clear Glass	2017401	2017400	-	-
Bezel + Metal Ring	2017378	2017377	-	-
Bezel + Kick Deflector	2017398	2017397	-	-
Bezel + Frosted Shallow Ring	2017362	2017361	2017360	-
Bezel + Frosted Deep Ring	2017369	2017367	2017365	2017364
Bezel + Blue Deep Ring	2017370	2017368	2017366	-
Bezel + Frosted Glow Ring	2017382	2017380	-	-

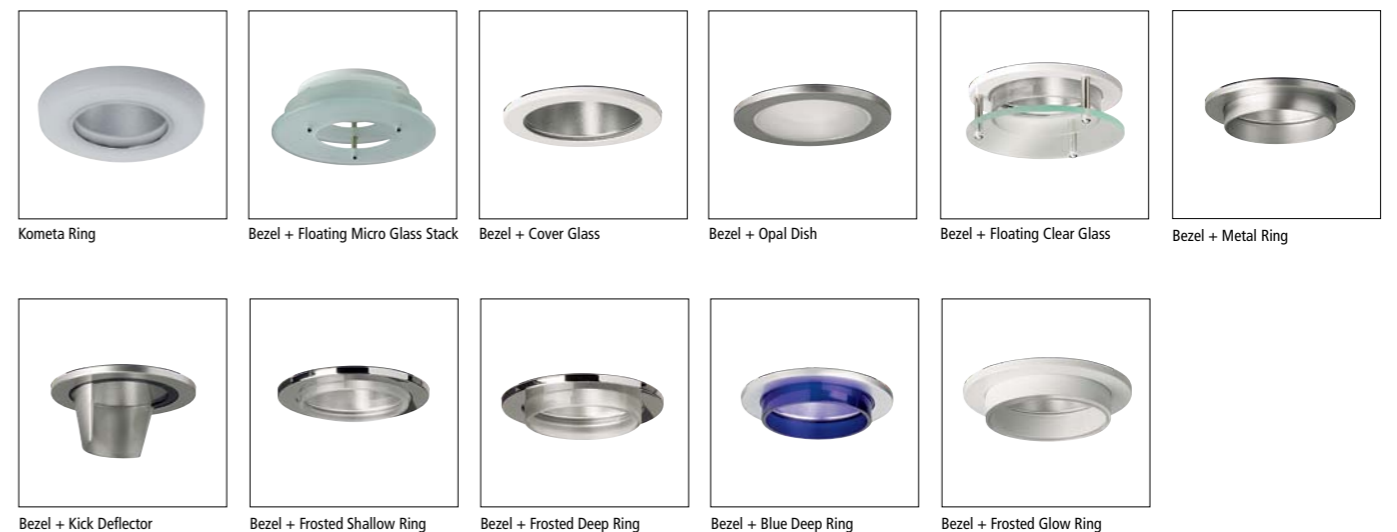


### DECORATIVE ACCESSORIES – SQUARE

	White	Silver
Square Bezel + Cover Glass	2052219	2052224
Square Bezel + Opal Dish	2052220	2052225
Square Bezel + Frosted Deep Ring	2052221	2052226
Square Bezel + Blue Ring	2052222	2052227
Square Bezel + Glow Ring	2052223	2052228



Micro Plaster Up Accessory 2049569





## Myriad V Solid State Pendant

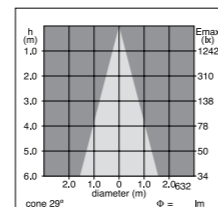


- New high output high efficiency LED Architectural Pendant modules
- Energy efficient light source with far superior luminous flux per watt than existing Low Voltage Halogen
- Dimmable options including DALI as standard
- Wide choice of colour temperatures
- Remote gear and Surface mounting options
- Luminaires supplied complete with LED drivers
- Total circuit power 15W

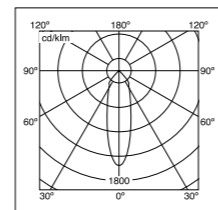


### SILVER – REMOTE GEAR

	3000K	4000K	5000K	Weight
Electronic	2050691	2050692	2050693	0.50kg
Dimmable	2049586	2049588	2049590	0.50kg
DALI	2049592	2049594	2049596	0.50kg



3000K



## Myriad V Solid State Pendant

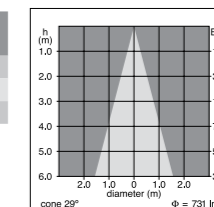


- New high output high efficiency LED Architectural Pendant modules
- Energy efficient light source with far superior luminous flux per watt than existing Low Voltage Halogen
- Dimmable options including DALI as standard
- Wide choice of colour temperatures
- Remote gear and Surface mounting options
- Luminaires supplied complete with LED drivers
- Total circuit power 15W

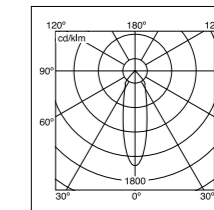


### WHITE – REMOTE GEAR

	3000K	4000K	5000K	Weight
Electronic	2050688	2050689	2050690	0.50kg
Dimmable	2049585	2049587	2049589	0.50kg
DALI	2049591	2049593	2049595	0.50kg



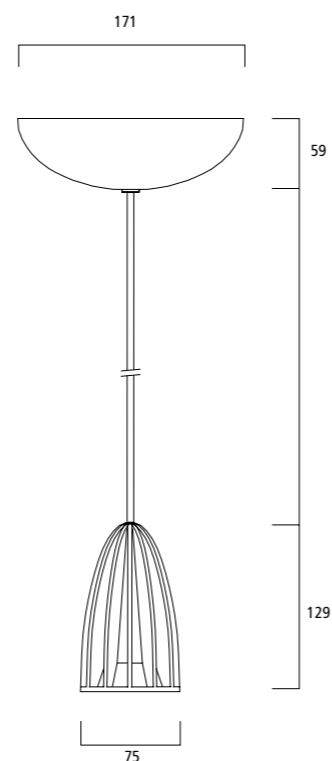
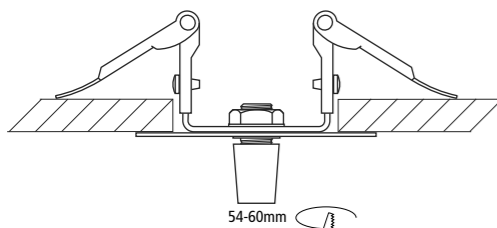
4000K



### SILVER – SURFACE MOUNTED

	3000K	4000K	5000K	Weight
Electronic	2050682	2050683	2050684	1.00kg
Dimmable	2049550	2049552	2049554	1.00kg
DALI	2049556	2049558	2049560	1.00kg

Surface Mounted Polished Chrome housing for Silver & Black Pendants White housing for White pendants



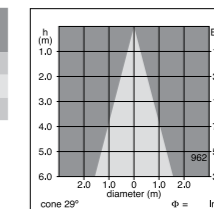
### WHITE – SURFACE MOUNTED

	3000K	4000K	5000K	Weight
Electronic	2050679	2050680	2050681	1.00kg
Dimmable	2049549	2049551	2049553	1.00kg
DALI	2049555	2049557	2049559	1.00kg

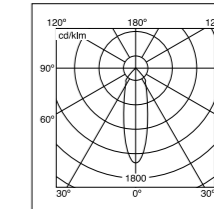


### BLACK – REMOTE GEAR

	3000K	4000K	5000K	Weight
Electronic	2050694	2050695	2050696	0.50kg
Dimmable	2049597	2049598	2049599	0.50kg
DALI	2049600	2049601	2049602	0.50kg



5000K



### BLACK – SURFACE MOUNTED

	3000K	4000K	5000K	Weight
Electronic	2050685	2050686	2050687	1.00kg
Dimmable	2049579	2049580	2049581	1.00kg
DALI	2049582	2049583	2049584	1.00kg

# Spotlights

Concord remains one of the worlds leading spotlight brands. Currently designing and manufacturing some of the best LED spotlights in the market, producing award winning ranges such as Stadium, Beacon and the highly innovative Beacon Muse a fully adjustable spotlight incorporating cutting-edge LED technology and highly advanced lens principles.





Similar power and punch when compared to a 35W metal halide. The new dawn in display lighting.

## Lytelab

A powerful spotlight which is multi-adjustable similar to Beacon Muse LED but very powerful. Lytelab can be mounted high in ceilings and far away from the item it is lighting. The lens can be adjusted to 'wall wash' or adjusted down to a narrow beam.



### Application areas:

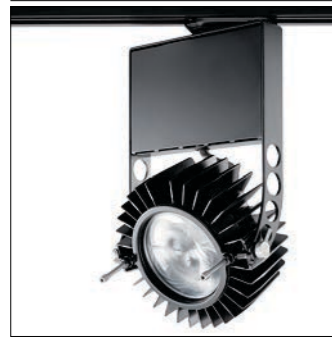
- Museums
- Galleries
- Cinemas/Theatres – Atria
- Retail



# Lytelab



- Unique adjustable lockable lens allows the beam angle to adjust from 15-50 degrees.
- Ideal for flexible retail and double height spaces
- Contains a high powered 45W LED chip
- Total power consumption 49W providing energy saving solutions when compared to existing 100W HIT Capsule
- 800Lux at 5m (20,000 cd's at 1m peak intensity)
- Dimmable via on board dimming and DALI driver options as standard
- Retro industrial finish – available in black
- 50K hours life @ 70% luminous flux providing maintenance free solutions
- Architectural range of accessories including: Barn Doors, Elongation lens, Colour Filters, Honeycomb
- CRI:83

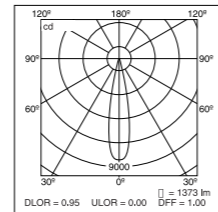


Lytelab

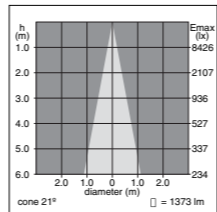


## LYTELAB

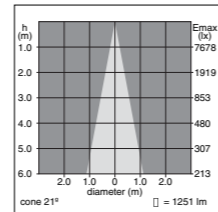
	Black
Lytelab 3K On Board Dim L1	2054430
Lytelab 3K On Board Dim L3	2054431
Lytelab 3K On Board Dim SM	2054432
Lytelab 3K DALI Dim L3	2054433
Lytelab 4K On Board Dim L1	2054434
Lytelab 4K On Board Dim L3	2054435
Lytelab 4K On Board Dim SM	2054436
Lytelab 4K DALI Dim L3	2054437
Lytelab Adjustable Barn Doors	2054438
Lytelab Coloured Gel Pack	2054439
Lytelab Elongation Lens	2054440
Lytelab Honeycomb	2054441



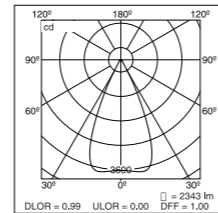
Lytelab 4K - 21 Deg



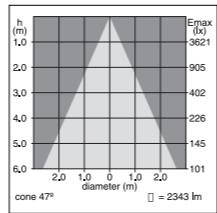
Lytelab 4K - 21 Deg



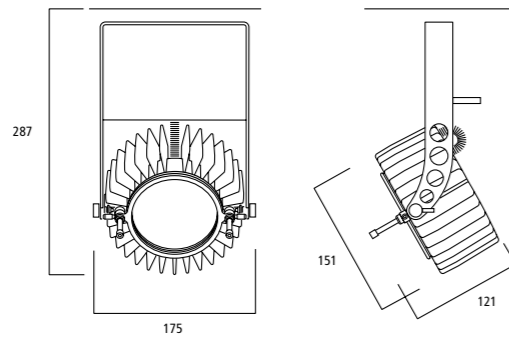
Lytelab 4K - 21 Deg



Lytelab 4K - 48 Deg



Lytelab 4K - 48 Deg



## Stadium II

Specially designed for retail and display spaces where textiles and cosmetics are displayed. The Evo meets the tough demands of these environments by providing on board dimming, high colour rendering, zero UV/IR radiation, reduction in maintenance costs and an energy saving solution over more traditional lamp sources. The ultra thin housing reduces bunching of spotlights on the track and allows the EVO to be discrete and disappear into a space.

The PRO is ideal for sensitive environments such as museums and galleries where museums are taken to protect the paintings and artefacts from damage caused by UV and IR light. The PRO provides a safe, economical and functional lighting solution for these spaces and introduces trailing edge or DALI dimmable control, resulting in energy saving and also introducing contrast and effect through varying light levels.

### Application areas:

- Museums
- Galleries
- Hospitality
- Retail





## Stadium II EVO – on board dimming



reddot design award  
winner 2010

- Individually dimmable using on board dimmer from 100-20%
- Excellent colour rendering (WWH & NWH Ra=min 90)
- Die-cast aluminum housing/PMMA lens
- Mains Voltage: 220-240 V/ 50/60Hz
- 20W power consumption
- High inrush current protection



Stadium Evo Silver



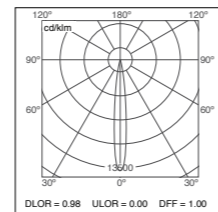
Stadium Evo White



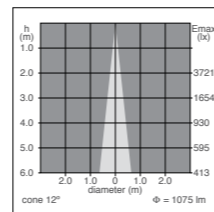
Stadium Evo Black

### STADIUM EVO – ON-BOARD DIMMING

	White	Silver	Black
3000K Stadium EVO NB L1	2053016	2053017	2053018
3000K Stadium EVO NB L3	2053013	2053014	2053015
3000K Stadium EVO NB SM	2053019	2053020	2053021
3000K Stadium EVO MB L1	2053034	2053035	2053036
3000K Stadium EVO MB L3	2053031	2053032	2053033
3000K Stadium EVO MB SM	2053037	2053038	2053039
3000K Stadium EVO WB L1	2053052	2053053	2053054
3000K Stadium EVO WB L3	2053049	2053050	2053051
3000K Stadium EVO WB SM	2053055	2053056	2053057



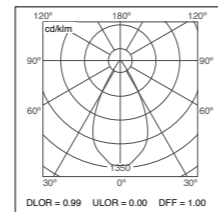
Spot - 4000K



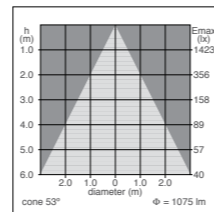
Spot - 4000K

### STADIUM EVO – ON-BOARD DIMMING

	White	Silver	Black
4000K Stadium EVO NB L1	2053025	2053026	2053027
4000K Stadium EVO NB L3	2053022	2053023	2053024
4000K Stadium EVO NB SM	2053028	2053029	2053030
4000K Stadium EVO MB L1	2053043	2053044	2053045
4000K Stadium EVO MB L3	2053040	2053041	2053042
4000K Stadium EVO MB SM	2053046	2053047	2053048
4000K Stadium EVO WB L1	2053061	2053062	2053063
4000K Stadium EVO WB L3	2053058	2053059	2053060
4000K Stadium EVO WB SM	2053064	2053065	2053066



Flood - 4000K



Flood - 4000K

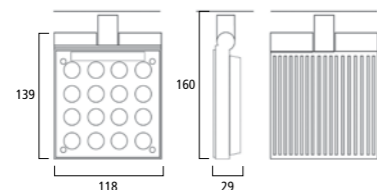
### STADIUM LED ACCESSORIES

	White	Black
Stadium Accessory Holder	2048690	2048689
Stadium Anti Glare Louvre & gel kit holder*	2048692	2048693

### OPTICAL LENS OPTIONS – ORDER IN ADDITION TO STADIUM ACCESSORY HOLDER

	10°	25°	
Elongation lens	3:1	2:1	2027239
Stadium coloured gel kit (blue, red & amber)			2048694

\* Order Stadium anti glare louvre & gel kit holder separately



## Stadium II Pro – Leading and Trailing edge

- Dimmable via trailing edge from 100-20%
- Lockable adapter and spot head
- Excellent colour rendering (WWH & NWH Ra=min 90)
- Die-cast aluminum housing/PMMA lens
- Mains Voltage: 220-240 V/ 50/60Hz
- 23W power consumption

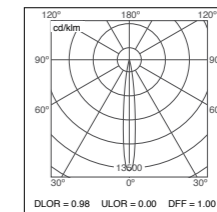


### STADIUM II – TRAILING EDGE DIMMABLE

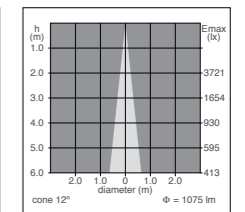
	White	Silver	Black
3000K Stadium II NB L1	2052944	2052945	2052946
3000K Stadium II NB L3	2052941	2052942	2052943
3000K Stadium II MB L1	2052956	2052957	2052958
3000K Stadium II MB L3	2052953	2052954	2052955
3000K Stadium II WB L1	2052968	2052969	2052970
3000K Stadium II WB L3	2052965	2052966	2052967

### STADIUM II – TRAILING EDGE DIMMABLE

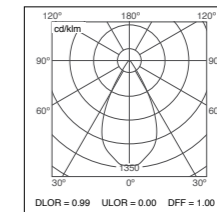
	White	Silver	Black
4000K Stadium II NB L1	2052950	2052951	2052952
4000K Stadium II NB L3	2052947	2052948	2052949
4000K Stadium II MB L1	2052962	2052963	2052964
4000K Stadium II MB L3	2052959	2052960	2052961
4000K Stadium II WB L1	2052974	2052975	2052976
4000K Stadium II WB L3	2052971	2052972	2052973



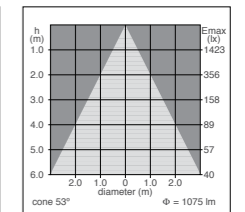
Spot - 4000K



Spot - 4000K



Flood - 4000K



Flood - 4000K

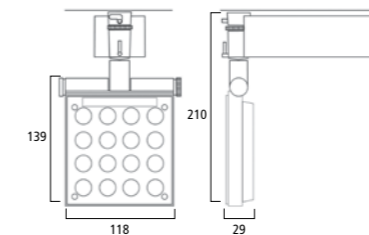
### STADIUM LED ACCESSORIES

	White	Black
Stadium Accessory Holder	2048690	2048689
Stadium Anti Glare Louvre & gel kit holder*	2048692	2048693

### OPTICAL LENS OPTIONS – ORDER IN ADDITION TO STADIUM ACCESSORY HOLDER

	10°	25°	
Elongation lens	3:1	2:1	2027239
Stadium coloured gel kit (blue, red & amber)			2048694

\* Order Stadium anti glare louvre & gel kit holder separately







## Stadium II PRO – DALI Dimming

- DALI Dimmable from 100-20%
- No IR (infrared) or UV (ultraviolet) radiation
- Excellent colour rendering (WWH & NWH Ra=min 90)
- Die-cast aluminum housing/PMMA lens
- Mains Voltage: 220-240 V/ 50/60Hz

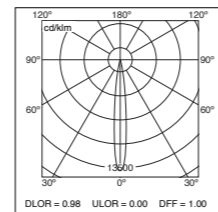


### STADIUM II – DALI DIMMABLE

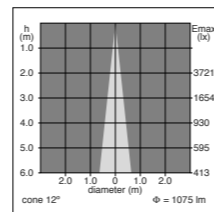
	White	Silver	Black
3000K Stadium NB	2051540	2051541	2051542
3000K Stadium MB	2051549	2051550	2051551
3000K Stadium WB	2052733	2052734	2052735

### STADIUM II – DALI DIMMABLE

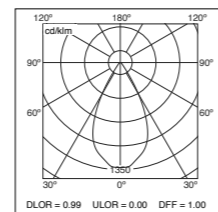
	White	Silver	Black
4000K Stadium NB	2051543	2051544	2051545
4000K Stadium MB	2051552	2051553	2051554
4000K Stadium WB	2052736	2052737	2052738



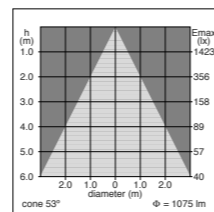
Spot - 4000K



Spot - 4000K



Flood - 4000K



Flood - 4000K

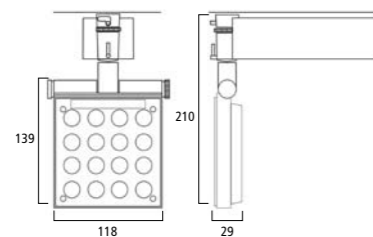
### STADIUM LED ACCESSORIES

	White	Black
Stadium Accessory Holder	2048690	2048689
Stadium Anti Glare Louvre & gel kit holder*	2048692	2048693

### OPTICAL LENS OPTIONS – ORDER IN ADDITION TO STADIUM ACCESSORY HOLDER

	10°	25°	
Elongation lens	3:1	2:1	2027239
Stadium coloured gel kit (blue, red & amber)			2048694

\* Order Stadium anti glare louvre & gel kit holder separately



## Beacon Muse

Muse introduces an exciting accent and display lighting concept using cutting-edge LED technology and ancient lens principles to create a fully adjustable spotlight. The Muse's adjustable optics provides a wide flood 65° which can be adjusted to create a 10° without the use of any additional lens or reflectors.

The versatility of Muse means that the designer has a completely flexible lighting tool, so for exhibitions and shop lighting applications there is no need to change spotlights, reflectors or lenses, a simple adjustment to the luminaire will transform the lit space saving considerable time and money.



Beacon Muse adjustable optics providing 10 degree tight spot for accent lighting for accentuating the texture, colour and shape of exhibits



Beacon Muse optics optimised to provide a 65 degree wide flood distribution for uniform vertical and horizontal illuminance and wall washing effects



Beacon Muse with Elongation Lens accessory to be used with narrow beam angles for highlighting sculptures, mannequins, logos and shelving

### Application areas:

- Museums
- Galleries
- Retail – high end boutiques





## Beacon Muse 13W

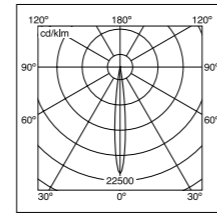


- Adjustable optics provides wide flood 65 degrees which can be adjusted to 10 degree spot without the need for additional lenses and reflectors
- Cast cooling fin design to maximise thermal management and reduction of LED junction temperature
- Dimmable via on-board dimming and Trailing Edge as standard from 100-3% output
- Choice of colour temperature warm 3000K & neutral 4000K
- Beacon Muse offers high CRI minimum 90 (typical 95) ideal for museum, galleries and high end shop lighting applications

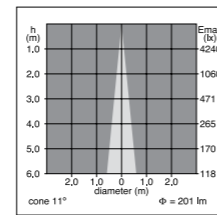


### 3000K ON-BOARD DIMMING – 13W

	White	Silver	Black	Weight
Muse Adj. Single Circuit	2051064	2051065	2051066	0.96kg
Muse Adj. Three Circuit	2051067	2051068	2051069	0.96kg
Muse Adj. Surface Mounted	2051070	2051071	2051072	0.96kg



3000K



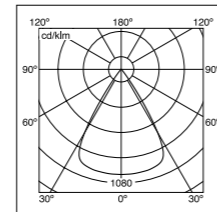
3000K

### 4000K ON-BOARD DIMMING – 13W

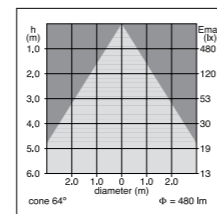
	White	Silver	Black	Weight
Muse Adj. Single Circuit	2051073	2051074	2051075	0.96kg
Muse Adj. Three Circuit	2051076	2051077	2051078	0.96kg
Muse Adj. Surface Mounted	2051079	2051080	2051472	0.96kg

### 3000K FOR TRAILING EDGE DIMMING – 13W

	White	Silver	Black	Weight
Muse Adj. Single Circuit	2051046	2051047	2051048	0.96kg
Muse Adj. Three Circuit	2051049	2051050	2051051	0.96kg
Muse Adj. Surface Mounted	2051052	2051053	2051054	0.96kg



3000K



3000K

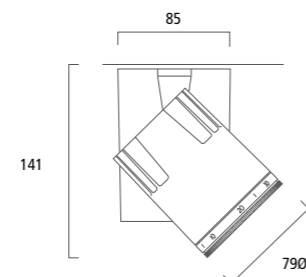
### 4000K FOR TRAILING EDGE DIMMING – 13W

	White	Silver	Black	Weight
Muse Adj. Single Circuit	2051055	2051056	2051057	0.96kg
Muse Adj. Three Circuit	2051058	2051059	2051060	0.96kg
Muse Adj. Surface Mounted	2051061	2051062	2051463	0.96kg



### ACCESSORIES

Elongation Lens	2047193
Coloured Gel Filters (Red, Yellow and Blue)	2049498
Adjustable Barn Doors	2052940



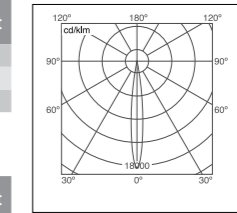
## Beacon Muse High Output 26W

- Adjustable optics provides wide flood 65 degrees which can be adjusted to 10 degree spot without the need for additional lenses and reflectors
- Cast cooling fin design to maximise thermal management and reduction of LED junction temperature
- Dimmable via on-board dimming and Trailing Edge as standard from 100-3% output
- Choice of colour temperature warm 3000K & neutral 4000K
- Beacon Muse offers high CRI minimum 90 (typical 95) ideal for museums, galleries and high end shop lighting applications

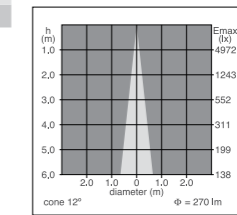


### 3000K ON-BOARD DIMMING – 26W

	White	Silver	Black	Weight
Muse Adj. Single Circuit	2052861	2052862	2052863	
Muse Adj. Three Circuit	2052867	2052868	2052869	
Muse Adj. Surface Mounted	2052873	2052874	2052875	



3000K



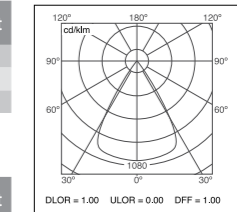
3000K

### 4000K ON-BOARD DIMMING – 26W

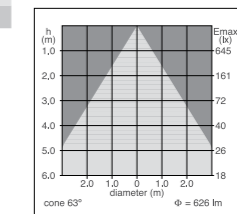
	White	Silver	Black	Weight
Muse Adj. Single Circuit	2052864	2052865	2052866	
Muse Adj. Three Circuit	2052870	2052871	2052872	
Muse Adj. Surface Mounted	2052876	2052877	2052878	

### 3000K FOR TRAILING EDGE DIMMING – 26W

	White	Silver	Black	Weight
Muse Adj. Single Circuit	2052843	2052844	2052845	
Muse Adj. Three Circuit	2052849	2052850	2052851	
Muse Adj. Surface Mounted	2052855	2052856	2052857	



3000K



3000K

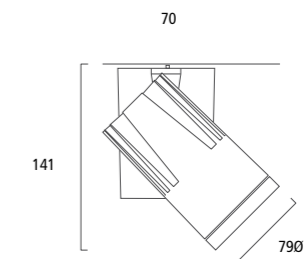
### 4000K FOR TRAILING EDGE DIMMING – 26W

	White	Silver	Black	Weight
Muse Adj. Single Circuit	2052846	2052847	2052848	
Muse Adj. Three Circuit	2052852	2052853	2052854	
Muse Adj. Surface Mounted	2052858	2052859	2052860	



### ACCESSORIES

Elongation Lens	2047193
Coloured Gel Filters (Red, Yellow and Blue)	2049498
Adjustable Barn Doors	2052940





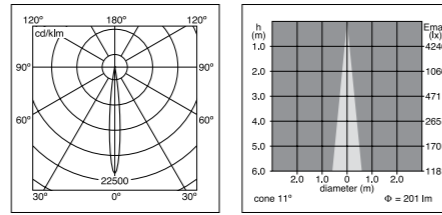
## Beacon Muse – DALI Dimming 13W & 26W

- Adjustable optics provides wide flood 65 degrees which can be adjusted to 10 degree spot without the need for additional lenses and reflectors
- Cast cooling fin design to maximise thermal management and reduction of LED junction temperature
- DALI dimmable as standard from 100-3% output
- Choice of colour temperature warm 3000K & neutral 4000K
- Beacon Muse offers high CRI minimum 90 (typical 95) ideal for museums, galleries and high end shop lighting applications

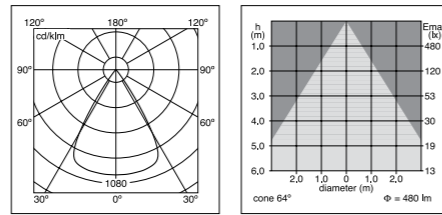


DALI BEACON MUSE LED – 13W

		White	Silver	Black
3000K	Adjustable	2051570	2051571	2051572
4000K	Adjustable	2051573	2051574	2051575

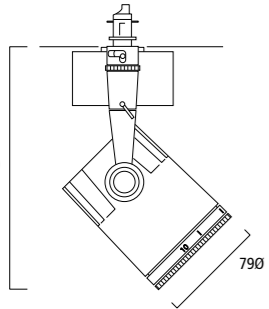


3000K



3000K

180

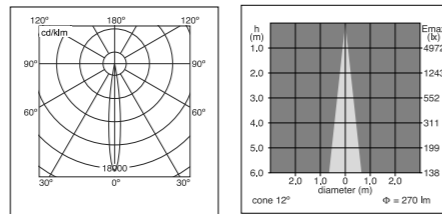


790

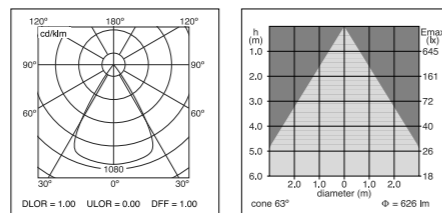


DALI BEACON MUSE LED – 26W

		White	Silver	Black
3000K	Muse Adj.	2052934	2052935	2052936
4000K	Muse Adj.	2052937	2052938	2052939

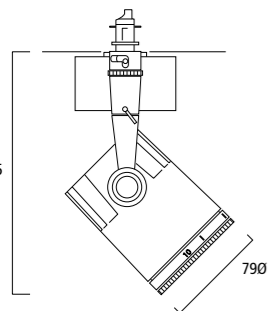


3000K



3000K

195



790





## Beacon Projector

Beacon Projector introduces an exciting new spotlighting concept using simple framing arms specifically for paintings within high end galleries and museums. The Gobo version is perfect for retail applications which involve the display of brand logos and bringing attention to specific sales offers. The Iris version gives a clean circular beam and allows the option to mask the beam down to a small pin point spot if required.



### Application areas:

- Museums
- Galleries
- Hospitality
- Retail
- Hotels





## Beacon Projector



- The Beacon Projector combines the Beacon housing and high output 26W cutting-edge LED chip technology of the spotlight with an additional connecting snoot with manual focusing lens
- The Projector has 3 versions:
  - Frame:** Four adjustable shutters allow the beam to be framed to the desired size (square/rectangle – or irregular 3/4 sided shapes) with hard or soft focus edges.
  - Iris:** gives a circular infinitely adjustable beam, allowing small objects to be pin pointed with light, with hard or soft focus edges. Where less than 10 degree beam is required.
  - Gobo:** Any image/pattern can be inserted to project this specific image onto a surface.
- Images/wording can also be printed onto acetate which gives more flexibility to the images people may wish to project
- High colour rendering index, typical Ra95, essential for museums, galleries and high end retail applications availability to be confirmed. Standard spotlight range spot and flood will use 90 CRI chips.



Silver Beacon Projector Framing



White Beacon Projector Iris



Black Beacon Projector Gobo

### BEACON PROJECTOR FRAMING 3K

	White	Silver	Black
BMUSE FRAM ADJ DIM L1 3K	2055136	2055162	2055165
BMUSE FRAM ADJ DIM L3 3K	2055177	2055180	2055183
BMUSE FRAM ADJ DIM SM 3K	2055195	2055198	2055201
BMUSE FRAM AD L3 DALI 3K	2055154	2055155	2055156

### BEACON PROJECTOR FRAMING 4K

	White	Silver	Black
FRAM ADJ DIM L1 4K	2055168	2055171	2055174
FRAM ADJ DIM L3 4K	2055186	2055189	2055192
FRAM ADJ DIM SM 4K	2055204	2055207	2055153
FRAM AD L3 DALI 4K	2055157	2055158	2055159

### BEACON PROJECTOR IRIS 3K

	White	Silver	Black
IRIS ADJ DIM L1 3K	2055160	2055163	2055166
IRIS ADJ DIM L3 3K	2055178	2055181	2055184
IRIS ADJ DIM SM 3K	2055196	2055199	2055202
IRIS ADJ L3 DALI 3K	2055213	2055215	2055217

### BEACON PROJECTOR IRIS 4K

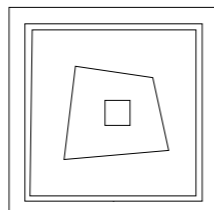
	White	Silver	Black
IRIS ADJ DIM L1 4K	2055169	2055172	2055175
IRIS ADJ DIM L3 4K	2055187	2055190	2055193
IRIS ADJ DIM SM 4K	2055205	2055209	2055211
IRIS AD L3 DALI 4K	2055219	2055221	2055223

### BEACON PROJECTOR GOBO 3K

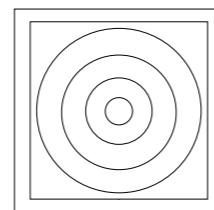
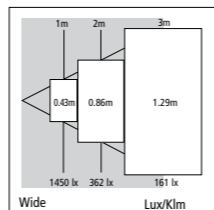
	White	Silver	Black
GOBO ADJ DIM L1 3K	2055161	2055164	2055167
GOBO ADJ DIM L3 3K	2055179	2055182	2055185
GOBO ADJ DIM SM 3K	2055197	2055200	2055203
GOBO AD L3 DALI 3K	2055214	2055216	2055218

### BEACON PROJECTOR GOBO 4K

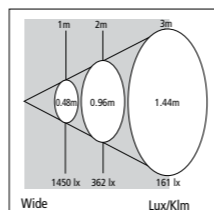
	White	Silver	Black
GOBO ADJ DIM L1 4K	2055170	2055173	2055176
GOBO ADJ DIM L3 4K	2055188	2055191	2055194
GOBO ADJ DIM SM 4K	2055206	2055210	2055212
GOBO AD L3 DALI 4K	2055220	2055222	2055224



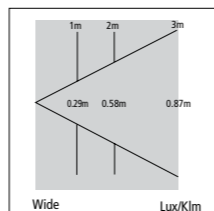
Framing Projector



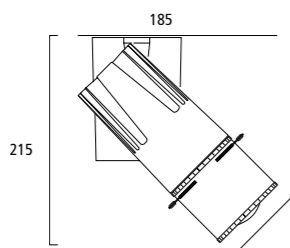
Iris Projector



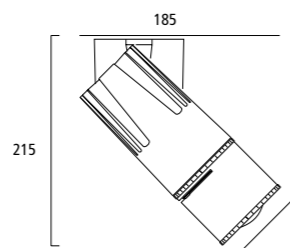
Gobo Holder (with 20mm image)



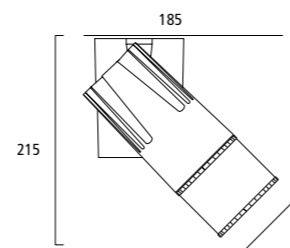
Light level not taken.  
Dependant on image



Projector Framing Head



Beacon Projector Iris Head



Beacon Projector Gobo



## Beacon LED

The Beacon LED spotlight introduces a new lighting dimension to retail and display space, both ranges meet the tough demands of these environments by providing good colour rendering, zero UV/IR radiation, reduction in maintenance costs and an energy saving solution.

### Application areas:

- Museums
- Galleries
- Hospitality
- Retail







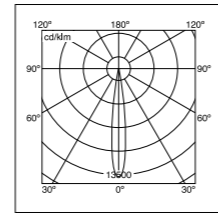
## Beacon LED 13W – Spot

- Energy efficient light source with far superior luminous flux per watt than existing Low Voltage Halogen
- Dimmable versions with on-board dimming, Trailing Edge and DALI Dimming as standard from 100-3% output
- Fresnel lens for collimating narrow beam for accent lighting
- Beacon offers high CRI minimum 80 (typical 85), ideal for museums, galleries and high end shop lighting applications



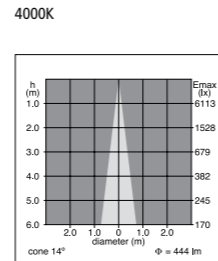
### BEACON LED SPOT 3000K

		White	Silver	Black	Weight
Trailing Edge	Single Circuit	2048776	2048777	2048778	0.85kg
On board Dimming	Single Circuit	2048807	2049457	2049458	0.85kg
Trailing Edge	Three Circuit	2048764	2048765	2048766	0.85kg
On board Dimming	Three Circuit	2048788	2048789	2048790	0.85kg



### BEACON LED SPOT 4000K

		White	Silver	Black	Weight
Trailing Edge	Single Circuit	2048779	2048780	2048781	0.85kg
On board Dimming	Single Circuit	2049459	2049460	2049461	0.85kg
Trailing Edge	Three Circuit	2048767	2048768	2048769	0.85kg
On board Dimming	Three Circuit	2048791	2048792	2048793	0.85kg



### DALI BEACON LED

	White	Silver	Black
13W 3000K	2051558	2051559	2051560
13W 4000K	2051561	2051562	2051563



### MONOPOINT FOR SURFACE MOUNTING ON TO CEILING AND WALLS

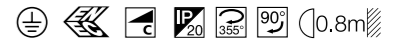
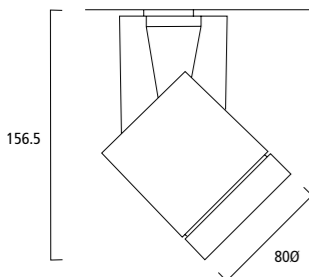
	White	Silver
Three Circuit	3020010	3020030

### ACCESSORIES

Beacon LED Coloured Gel Pack	2049498
Elongation Lens	2047193
Adjustable Barn Doors	2052940



Adjustable Barn Doors



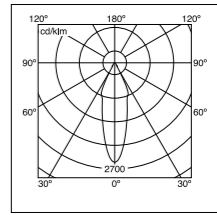
## Beacon LED 13W – Flood

- Energy efficient light source with far superior luminous flux per watt than existing Low Voltage Halogen
- Dimmable versions with on-board dimming, Trailing Edge and DALI Dimming as standard from 100-3% output
- Reflector with open front creating a 30° beam angle
- Beacon offers high CRI minimum 80 (typical 85), ideal for museums, galleries and high end shop lighting applications



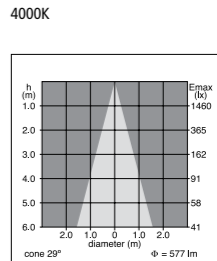
### BEACON LED FLOOD 3000K

		White	Silver	Black	Weight
Trailing Edge	Single Circuit	2048782	2048783	2048784	0.85kg
On board Dimming	Single Circuit	2049465	2049466	2049467	0.85kg
Trailing Edge	Three Circuit	2048770	2048771	2048772	0.85kg
On board Dimming	Three Circuit	2048797	2048798	2048799	0.85kg



### BEACON LED FLOOD 4000K

		White	Silver	Black	Weight
Trailing Edge	Single Circuit	2048785	2048786	2048787	0.85kg
On board Dimming	Single Circuit	2049468	2049469	2049470	0.85kg
Trailing Edge	Three Circuit	2048773	2048774	2048775	0.85kg
On board Dimming	Three Circuit	2048801	2048802	2048803	0.85kg



### DALI BEACON LED

	White	Silver	Black
13W 3000K	2051564	2051565	2051566
13W 4000K	2051567	2051568	2051569



### MONOPOINT FOR SURFACE MOUNTING ON TO CEILING AND WALLS

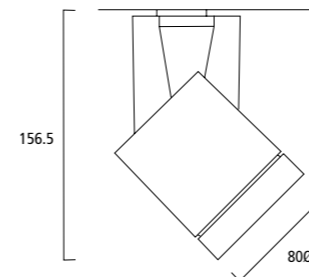
	White	Silver
Three Circuit	3020010	3020030

### ACCESSORIES

Beacon LED Coloured Gel Pack	2049498
Beacon Flood Lens (To give 40deg beam)	2049499
Adjustable Barn Doors	2052940



Adjustable Barn Doors





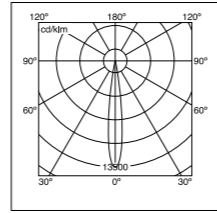
## Beacon LED ACCENT Spot/Flood – 13W

- Cutting-edge cooling fin design to maximise thermal management and reduction of LED junction temperature
- Dimmable versions with on-board dimming from 100-3% output
- Fresnel lens for collimating narrow beam for accent lighting
- Available in 10° and 30° Flood options
- Choice of colour temperature warm 3000K & neutral 4000K
- Beacon Accent version offers high CRI, minimum 90 (typical 95) ideal for museums, galleries and high end shop lighting applications with on-board dimming



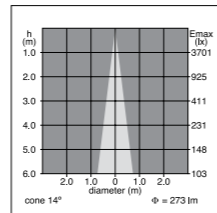
### BEACON LED ACCENT SPOT 3000K

		White	Silver	Black	Weight
On board Dimming	Single Circuit	2049462	2049463	2049464	0.85kg
On board Dimming	Three Circuit	2048794	2048795	2048796	0.85kg



### BEACON LED ACCENT FLOOD 3000K

		White	Silver	Black	Weight
On board Dimming	Single Circuit	2049471	2049472	2049473	0.85kg
On board Dimming	Three Circuit	2048804	2048805	2048806	0.85kg



3000K

### MONOPOINT FOR SURFACE MOUNTING ON TO CEILING AND WALLS

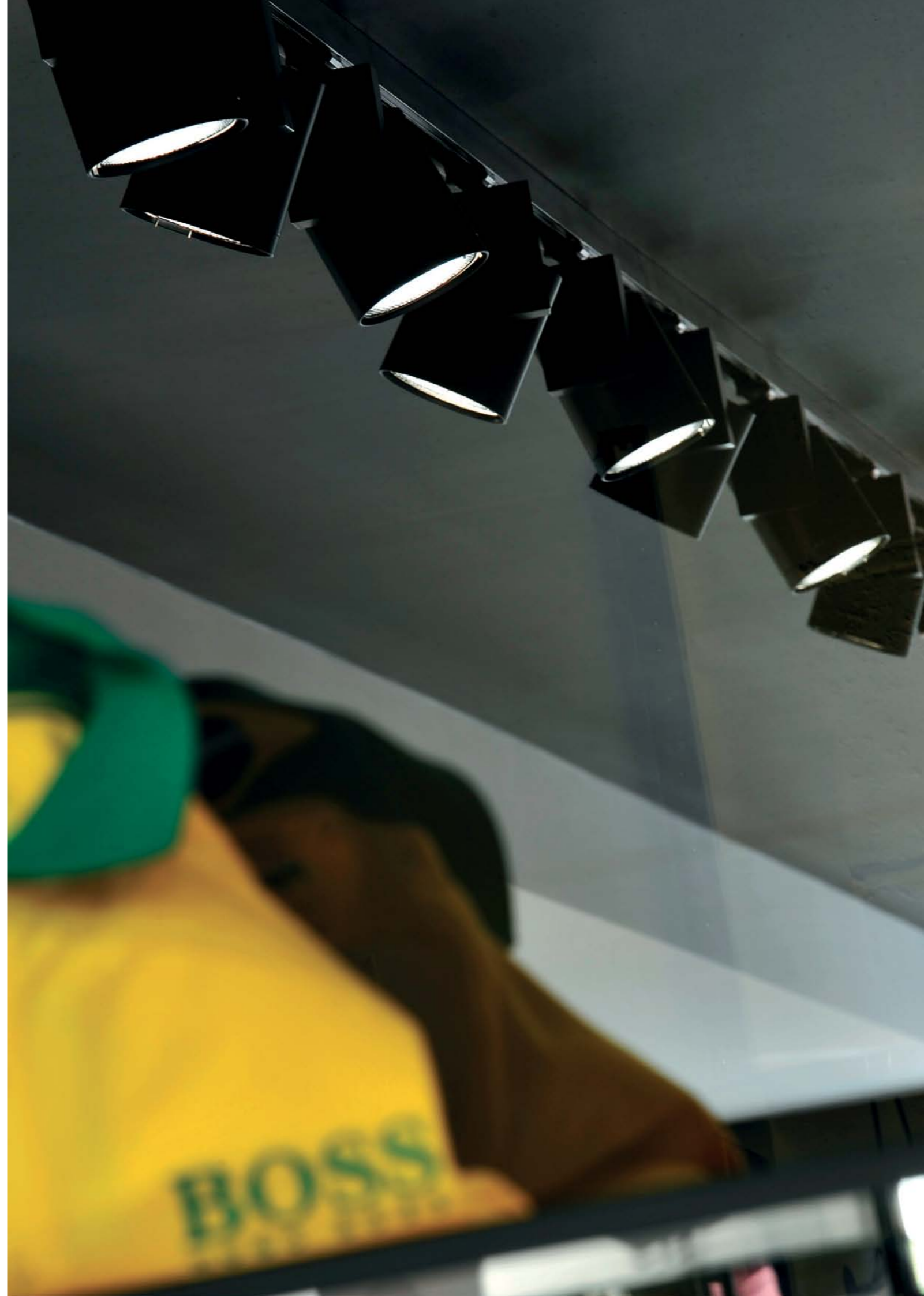
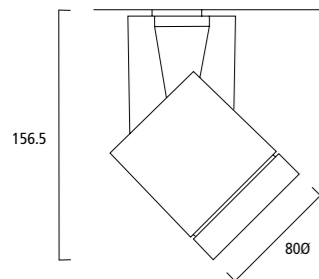
	White	Silver
Three Circuit	3020010	3020030

### ACCESSORIES

Beacon LED Coloured Gel Pack	2049498
Beacon Flood Lens (To give 40deg beam)	2049499
Elongation Lens	2047193
Adjustable Barn Doors	2052940



Adjustable Barn Doors





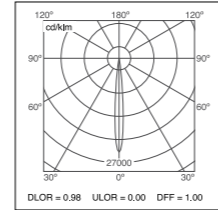
## Beacon LED High Output Spot – 26W

- High output high efficiency LED spotlight range
- Cutting-edge cooling fin design to maximise thermal management and reduction of LED junction temperature
- IR/UV - free light source without heat radiation
- Energy efficient light source with far superior luminous flux per watt than existing Low Voltage Halogen
- Long Life 50K hours, fit and forget maintenance free lighting solution
- Dimmable versions with on-board dimming, Trailing Edge and DALI as standard from 100-3% output
- Fresnel lens for collimating narrow beam for accent lighting
- 10° beam angle
- Beacon offers CRI minimum 80 (typical 85)



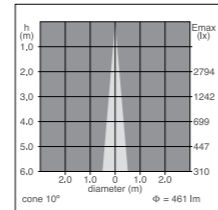
### BEACON HIGH OUTPUT ON BOARD DIMMING – 26W

	White	Silver	Black
3000K Beacon 26W L1 Spot	2052789	2052790	2052791
3000K Beacon 26W L3 Spot	2052807	2052808	2052809
3000K Beacon 26W SM Spot	2052825	2052826	2052827



### BEACON HIGH OUTPUT ON BOARD DIMMING – 26W

	White	Silver	Black
4000K Beacon 26W L1 Spot	2052792	2052793	2052794
4000K Beacon 26W L3 Spot	2052810	2052811	2052812
4000K Beacon 26W SM Spot	2052828	2052829	2052830



### BEACON HIGH OUTPUT TRAILING EDGE DIMMING – 26W

	White	Silver	Black
3000K Beacon 26W L&T L1 Spot	2052753	2052754	2052755
3000K Beacon 26W L&T L3 Spot	2052765	2052766	2052767
3000K Beacon 26W L&T SM Spot	2052777	2052778	2052779

### BEACON HIGH OUTPUT TRAILING EDGE DIMMING – 26W

	White	Silver	Black
4000K Beacon 26W L&T L1 Spot	2052756	2052757	2052758
4000K Beacon 26W L&T L3 Spot	2052768	2052769	2052770
4000K Beacon 26W L&T SM Spot	2052780	2052781	2052782

### BEACON HIGH OUTPUT DALI DIMMABLE – 26W

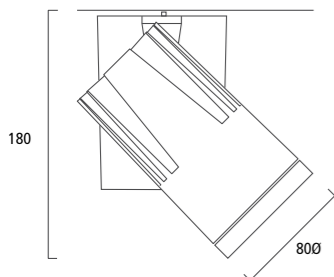
	White	Silver	Black
3000K Spot	2052922	2052923	2052924
4000K Spot	2052739	2052740	2052741

### ACCESSORIES

Beacon LED Coloured Gel Pack	2049498
Elongation Lens	2047193
Adjustable Barn Doors	2052940



Adjustable Barn Doors



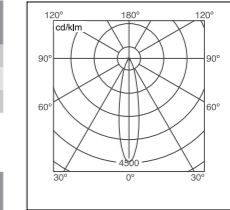
## Beacon LED High Output Flood – 26W

- High output high efficiency LED spotlight range
- Cutting-edge cooling fin design to maximise thermal management and reduction of LED junction temperature
- IR/UV - free light source without heat radiation
- Energy efficient light source with far superior luminous flux per watt than existing Low Voltage Halogen
- Long Life 50K hours, fit and forget maintenance free lighting solution
- Dimmable versions with on-board dimming, Trailing Edge and DALI as standard from 100-3% output
- Reflector with open front creating a 30° beam angle
- Beacon offers CRI minimum 80 (typical 85)



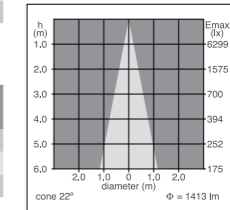
### BEACON HIGH OUTPUT ON BOARD DIMMING – 26W

	White	Silver	Black
3000K Beacon 26W L1 Flood	2052798	2052799	2052800
3000K Beacon 26W L3 Flood	2052816	2052817	2052818
3000K Beacon 26W SM Flood	2052834	2052835	2052836



### BEACON HIGH OUTPUT ON BOARD DIMMING – 26W

	White	Silver	Black
4000K Beacon 26W L1 Flood	2052801	2052802	2052803
4000K Beacon 26W L3 Flood	2052819	2052820	2052821
4000K Beacon 26W SM Flood	2052837	2052838	2052839



### BEACON HIGH OUTPUT TRAILING EDGE DIMMING – 26W

	White	Silver	Black
3000K Beacon 26W L1 Flood	2052759	2052760	2052761
3000K Beacon 26W L3 Flood	2052771	2052772	2052773
3000K Beacon 26W SM Flood	2052783	2052784	2052785

### BEACON HIGH OUTPUT TRAILING EDGE DIMMING – 26W

	White	Silver	Black
4000K Beacon 26W L1 Flood	2052762	2052763	2052764
4000K Beacon 26W L3 Flood	2052774	2052775	2052776
4000K Beacon 26W SM Flood	2052786	2052787	2052788

### BEACON HIGH OUTPUT DALI DIMMABLE – 26W

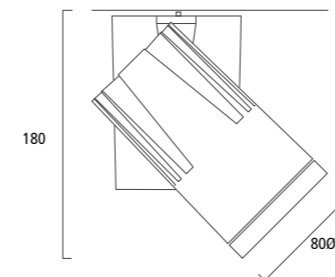
	White	Silver	Black
3000K Flood	2052931	2052932	2052933
4000K Flood	2052742	2052743	2052744

### ACCESSORIES

Beacon LED Coloured Gel Pack	2049498
Adjustable Barn Doors	2052940



Adjustable Barn Doors



## Beacon LED High Output ACCENT Spot/Flood – 26W

- Energy efficient light source with far superior luminous flux per watt than existing Low Voltage Halogen
- Dimmable versions with on-board dimming from 100-3% output
- Fresnel lens for collimating narrow beam for accent lighting
- Available in 10° and 30° Flood options
- LED Spot version track dimmable via trailing edge dimming equipment
- Beacon Accent version offers high CRI, minimum 80 (typical 85) ideal for museums, galleries and high end shop lighting applications with on-board dimming



### BEACON LED ACCENT 3000K 26W SPOT

	White	Silver	Black
Onboard Dimming Single Circuit 90 CRI Spot	2052795	2052796	2052797
Onboard Dimming Three Circuit 90 CRI Spot	2052813	2052814	2052815
Onboard Dimming Surfact Mtd 90 CRI Spot	2052831	2052832	2052833

### BEACON LED ACCENT 3000K 26W FLOOD

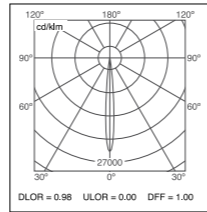
	White	Silver	Black
Onboard Dimming Single Circuit 90 CRI Flood	2052804	2052805	2052806
Onboard Dimming Three Circuit 90 CRI Flood	2052822	2052823	2052824
Onboard Dimming Surfact Mtd 90 CRI Flood	2052840	2051841	2052842

### BEACON LED ACCENT 4000K 26W SPOT

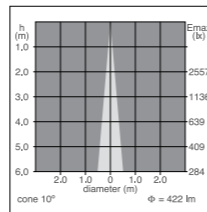
	White	Silver	Black
Onboard Dimming Single Circuit 90 CRI Spot	2051473	2051474	2051475
Onboard Dimming Three Circuit 90 CRI Spot	2051479	2051480	2051481
Onboard Dimming Surfact Mtd 90 CRI Spot	2051509	2051510	2051511

### BEACON LED ACCENT 4000K 26W FLOOD

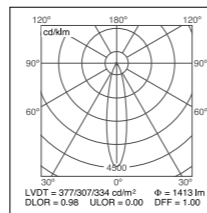
	White	Silver	Black
Onboard Dimming Single Circuit 90 CRI Flood	2051476	2051477	2051478
Onboard Dimming Three Circuit 90 CRI Flood	2051482	2051483	2051484
Onboard Dimming Surfact Mtd 90 CRI Flood	2051512	2051513	2051514



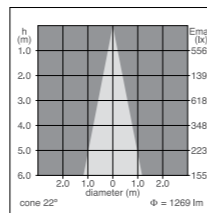
Spot - 3000K



Spot - 3000K



Flood - 3000K



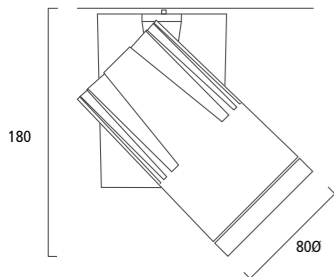
Flood - 3000K

### ACCESSORIES

Beacon LED Coloured Gel Pack	2049498
Beacon Flood Lens (To give 40deg beam)	2049499
Elongation Lens	2047193
Adjustable Barn Doors	2052940



Adjustable Barn Doors





## Recessed Modular, Surface and Suspended

The realisation that human beings function better under natural light conditions has led to a greater drive to improve the ingress of light into a building. Our recessed modular, surface and suspended solutions, satisfy the needs of the ever changing office environment and employ a variety of technologies and form factors to ensure the use of artificial and natural light co-exist to the benefit of fellow colleagues within the work environment.



## Concave Officelyte LED

Following the success of the original Officelyte system introduced in 2008, Concord has pushed the boundaries of office lighting even further with the introduction of Concave Officelyte LED. Available as a direct replacement for the 600 x 600, Concave Officelyte is the ideal solution for the modern office.



### Application areas:

- Office
- Hospitality – Seminar rooms

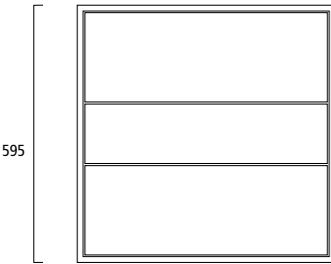
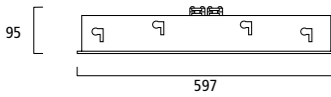


## OFFICELYTE LOW PROFILE LED

- Super efficient LED modular luminaire incorporating cutting edge LED chip technology
- High Efficiency and High Output solutions providing the optimum energy efficient lighting schemes depending on required ceiling heights and luminaire spacings
- 3000K & 4000K colour temperature options
- Minimum 80 CRI LED chip technology
- Provides more efficient lighting schemes than TC-L & T5 lamp options
- Introduces perfect uniform light distribution greatly enhancing the lit space



Officelyte



### 600 X 600 HIGH EFFICIENCY MODULE 3000K

42W LED	Standard	<b>2054452</b>
42W LED	Standard Emg	<b>2054453</b>
42W LED	DALI Dimmable	<b>2054454</b>
42W LED	DALI Dimmable Emg	<b>2054455</b>

### 600 X 600 HIGH EFFICIENCY MODULE 4000K

42W LED	Standard	<b>2054456</b>
42W LED	Standard Emg	<b>2054457</b>
42W LED	DALI Dimmable	<b>2054458</b>
42W LED	DALI Dimmable Emg	<b>2054459</b>

### 600 X 600 HIGH OUTPUT MODULE 3000K

54W LED	Standard	<b>2055008</b>
54W LED	Standard Emg	<b>2055009</b>
54W LED	DALI Dimmable	<b>2055010</b>
54W LED	DALI Dimmable Emg	<b>2055011</b>

### 600 X 600 HIGH OUTPUT MODULE 4000K

54W LED	Standard	<b>2055012</b>
54W LED	Standard Emg	<b>2055013</b>
54W LED	DALI Dimmable	<b>2055014</b>
54W LED	DALI Dimmable Emg	<b>2055015</b>

### 625 X 625 HIGH EFFICIENCY MODULE 3000K

42W LED	Standard	<b>2055032</b>
42W LED	Standard Emg	<b>2055033</b>
42W LED	DALI Dimmable	<b>2055034</b>
42W LED	DALI Dimmable Emg	<b>2055035</b>

### 625 X 625 HIGH EFFICIENCY MODULE 4000K

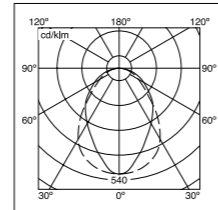
42W LED	Standard	<b>2055036</b>
42W LED	Standard Emg	<b>2055037</b>
42W LED	DALI Dimmable	<b>2055038</b>
42W LED	DALI Dimmable Emg	<b>2055039</b>

### 625 X 625 HIGH OUTPUT MODULE 3000K

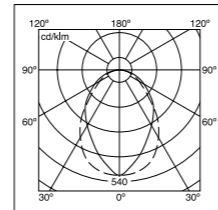
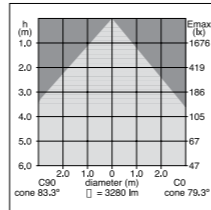
54W LED	Standard	<b>2055040</b>
54W LED	Standard Emg	<b>2055041</b>
54W LED	DALI Dimmable	<b>2055042</b>
54W LED	DALI Dimmable Emg	<b>2055043</b>

### 625 X 625 HIGH OUTPUT MODULE 4000K

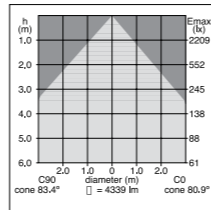
54W LED	Standard	<b>2055044</b>
54W LED	Standard Emg	<b>2055045</b>
54W LED	DALI Dimmable	<b>2055046</b>
54W LED	DALI Dimmable Emg	<b>2055047</b>



High Efficiency

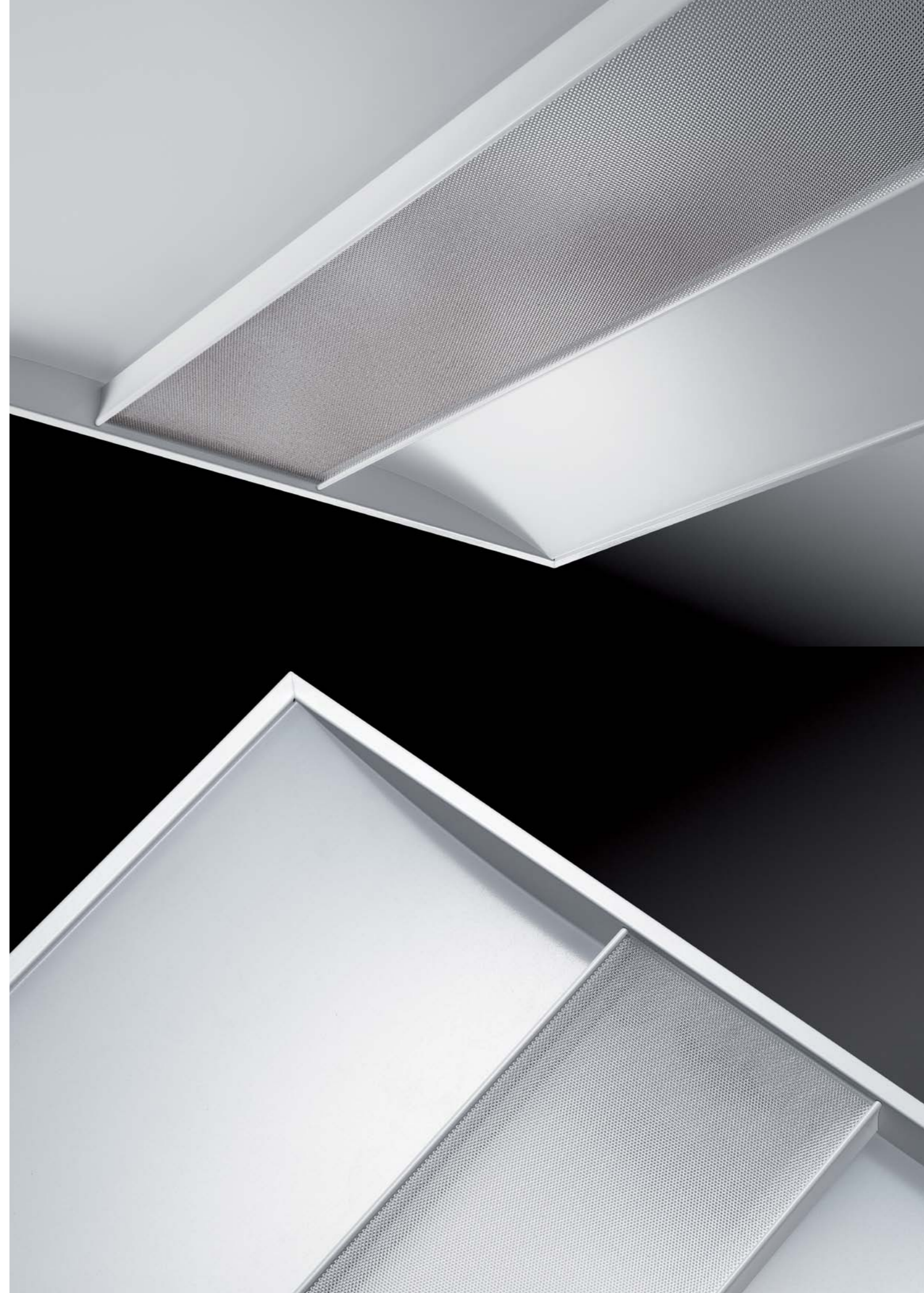


High Output



### TECHNOLOGY COMPARISON TABLE

Description	Lamp/mA	Fixture Lumens	TOTAL W	TOTAL lm/W
<b>Officelyte LED</b>	at 1000mA	3280	42	78
<b>LED</b>	at 1400mA	4339	54	80
<b>Officelyte</b>	2 x 24W T5	3175	48.3	73
<b>Low Profile</b>	1 x 55W TC-L	4000	59.4	72

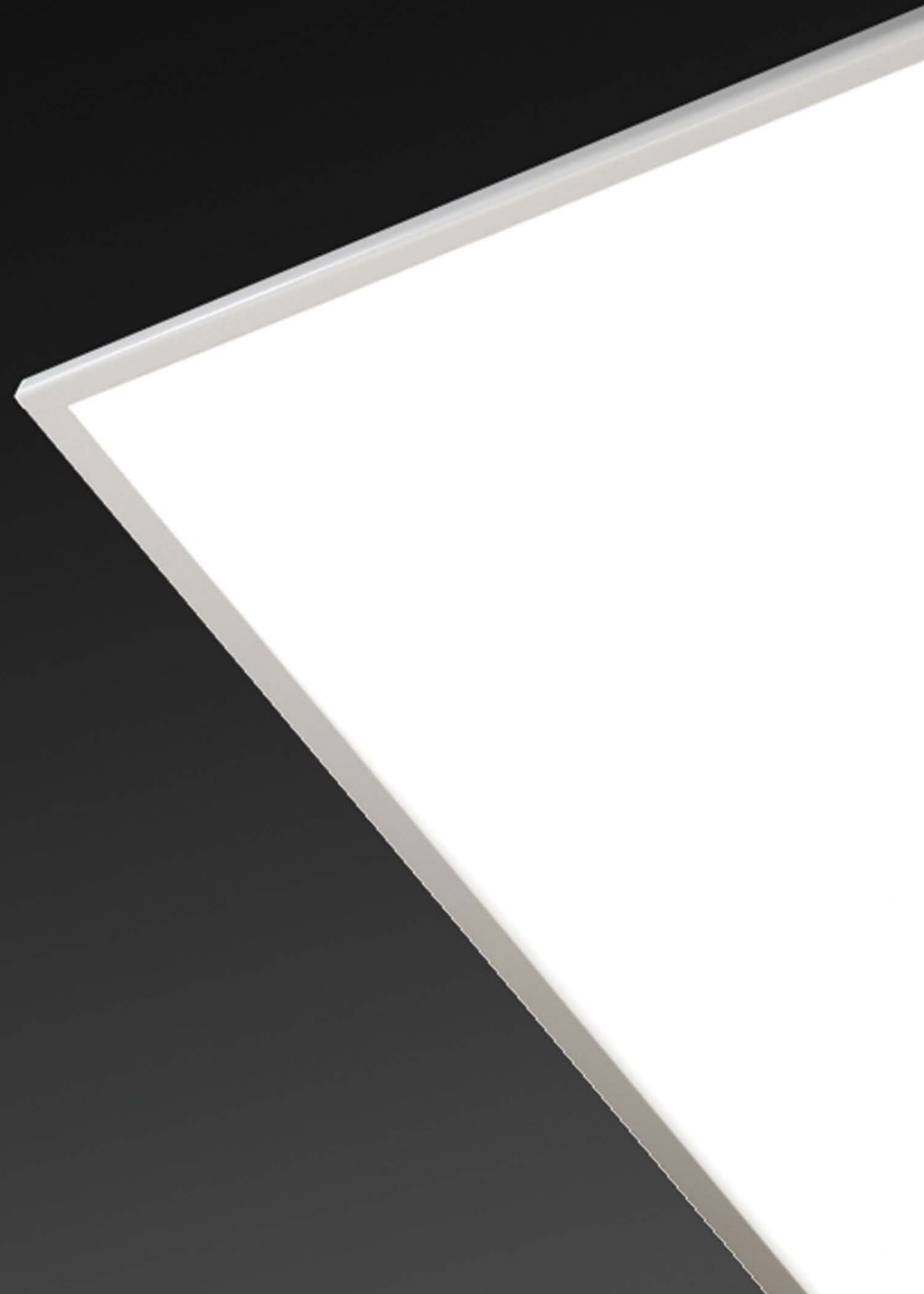


## Lytepanel

Designed to blend in with its surroundings, Lytepanel gives the effect of being invisible within the ceiling space resulting in unified lines of light just as the architect intended. With cutting edge LED technology, Lytepanel combines vivid pools of light with low maintenance for a truly efficient lighting solution.

### Application areas:

- Office
- Hospitality
- Retail
- Airport/lounges





# LYTEPANEL LOW PROFILE LED FLAT PANEL

- Super efficient LED modular luminaire incorporating cutting edge LED chip technology
- Optimum efficient lighting schemes
- Long life 50, 0000 hrs/L70
- Suitable for exposed T bar ceilings and lay in applications
- 3000K & 4000K colour temperature options
- Minimum 80 CRI LED chip technology
- Provides more efficient lighting schemes than TC-L & T5 lamp options
- Introduces perfect uniform light distribution greatly enhancing the lit space

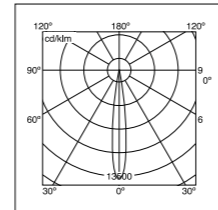


Lytepanel 600 x 600

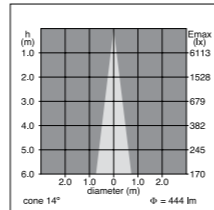


Lytepanel 1200 x 300

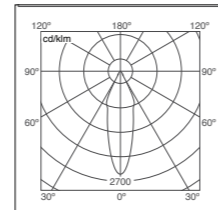
600 X 600 3000K		
49W LED	Standard	2054840
49W LED	Standard Emg	2054841
49W LED	DALI Dimmable	2054842
49W LED	DALI Dimmable Emg	2054843
600 X 600 4000K		
49W LED	Standard	2054844
49W LED	Standard Emg	2054845
49W LED	DALI Dimmable	2054846
49W LED	DALI Dimmable Emg	2054847
625 X 625 3000K		
49W LED	Standard	2054848
49W LED	Standard Emg	2054849
49W LED	DALI Dimmable	2054850
49W LED	DALI Dimmable Emg	2054851
625 X 625 4000K		
49W LED	Standard	2054852
49W LED	Standard Emg	2054853
49W LED	DALI Dimmable	2054854
49W LED	DALI Dimmable Emg	2054855
1200 X 300 3000K		
49W LED	Standard	2054856
49W LED	Standard Emg	2054857
49W LED	DALI Dimmable	2054858
49W LED	DALI Dimmable Emg	2054859
1200 X 300 4000K		
49W LED	Standard	2054860
49W LED	Standard Emg	2054861
49W LED	DALI Dimmable	2054862
49W LED	DALI Dimmable Emg	2054863
1250 X 312 3000K		
49W LED	Standard	2054864
49W LED	Standard Emg	2054865
49W LED	DALI Dimmable	2054866
49W LED	DALI Dimmable Emg	2054867
1200 X 300 4000K		
49W LED	Standard	2054868
49W LED	Standard Emg	2054869
49W LED	DALI Dimmable	2054870
49W LED	DALI Dimmable Emg	2054871



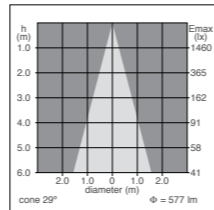
600 x 600



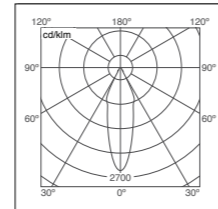
600 x 600



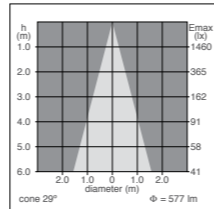
625 x 625



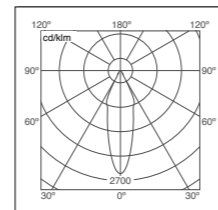
625 x 625



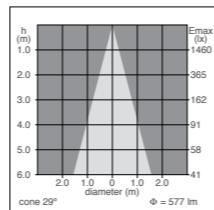
1200 x 300



1200 x 300



1250 x 312

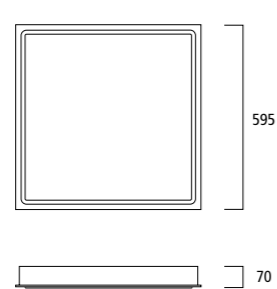


1250 x 312

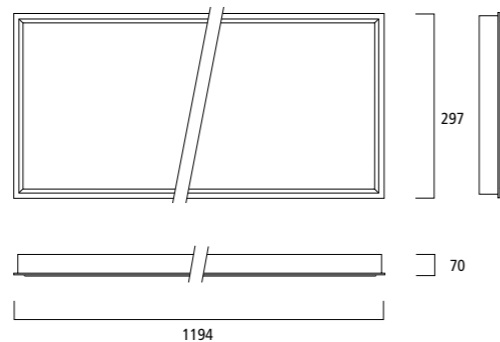
### TECHNOLOGY COMPARISON TABLE

Description	Lamp/mA	Fixture Lumens	TOTAL W	TOTAL lm/W
<b>Lytepanel</b>	600 x 600 4K at 1400mA	4345	50	87
<b>LED</b>	1200 x 300 4K	4204	50	84
<b>Officelyte</b>	1200 x 300 4K	3175	48.3	73
<b>Low Profile</b>	1 x 55W TC-L	4000	59.4	72

Lytepanel 600 x 600



Lytepanel 1200 x 300



## Linear Systems

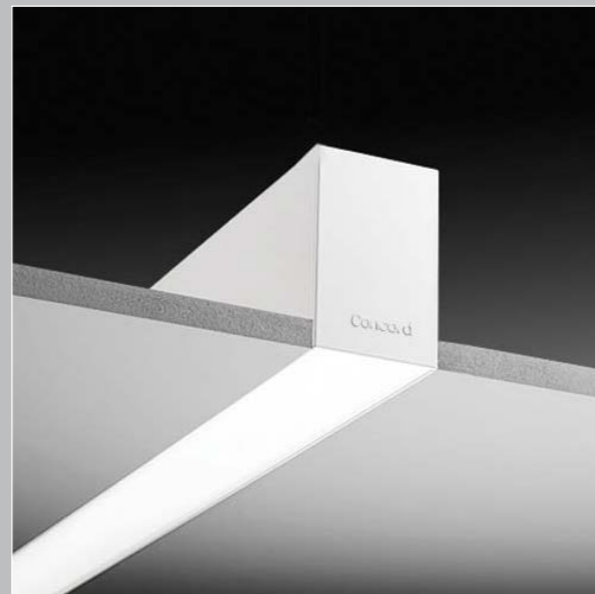
Concord's linear lighting systems provide the ultimate in versatile lighting. With our linear offering, one can say that 'form finally meets function'. Suitable for offices, meeting rooms, corridors, education facilities, museums and libraries our range of linear lighting gives you the optimum solution for your interior lighting needs.





## Mini Continuum LED

Mini Continuum LED introduces a uniquely clean, simple lighting system offering continuous, highly uniform lines of light across walls and ceilings. This highly versatile lighting tool can be recessed for when a seamless effect is required, semi-recessed, surface-mounted or suspended, either vertically or horizontally. Available in 3000K and 4000K with light output equivalent to or surpassing T5 luminaires.



### Application areas:

- Office
- Hospitality
- Retail

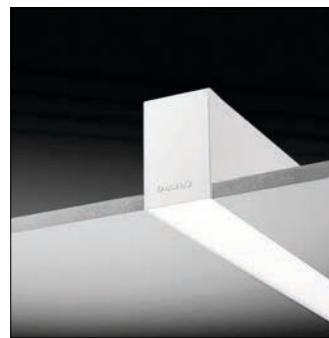


## MINI CONTINUUM LED Trimless

- LED Mini Continuum perfect homogenous light distribution with no shadows
- Clean horizontal and vertical lines of light
- LED Mini Continuum is based on the Golden mean or ratio and is regarded as the secret to aesthetics
- LED Mini Continuum profiles supplied complete with extrusion, diffuser & LED strips order accessories separately
- 3000K & 4000k colour temperature options
- Extrusion profiles offer trim and trimless options



Mini Continuum LED Trimless



Mini Continuum Trimless



Mini Continuum Trimless

### MINI CONTINUUM TRIMLESS PROFILES 3000K

Wattage	Length	Description	Code
12W	600mm	Mini Continuum Trimless White	2056002
12W	600mm	Mini Continuum Trimless Silver	2056003
19W	900mm	Mini Continuum Trimless White	2056014
19W	900mm	Mini Continuum Trimless Silver	2056015
25W	1200mm	Mini Continuum Trimless White	2054872
50W	2400mm	Mini Continuum Trimless White	2054873
75W	3600mm	Mini Continuum Trimless White	2054874
25W	1200mm	Mini Continuum Trimless White Emergency	2054881
50W	2400mm	Mini Continuum Trimless White Emergency	2054882
75W	3600mm	Mini Continuum Trimless White Emergency	2054883
25W	1200mm	Mini Continuum Trimless Silver	2054875
50W	2400mm	Mini Continuum Trimless Silver	2054876
75W	3600mm	Mini Continuum Trimless Silver	2054877
25W	1200mm	Mini Continuum Trimless Silver Emergency	2054884
50W	2400mm	Mini Continuum Trimless Silver Emergency	2054885
75W	3600mm	Mini Continuum Trimless Silver Emergency	2054886

### MINI CONTINUUM TRIMLESS PROFILES 3000K DALI

Wattage	Length	Description	Code
12W	600mm	Mini Continuum Trimless White DALI	2056008
12W	600mm	Mini Continuum Trimless Silver DALI	2056009
19W	900mm	Mini Continuum Trimless White DALI	2056020
19W	900mm	Mini Continuum Trimless Silver DALI	2056021
25W	1200mm	Mini Continuum Trimless White DALI	2055079
50W	2400mm	Mini Continuum Trimless White DALI	2055080
75W	3600mm	Mini Continuum Trimless White DALI	2055081
25W	1200mm	Mini Continuum Trimless White Emergency	2055088
50W	2400mm	Mini Continuum Trimless White Emergency	2055089
75W	3600mm	Mini Continuum Trimless White Emergency	2055090
25W	1200mm	Mini Continuum Trimless Silver	2055082
50W	2400mm	Mini Continuum Trimless Silver	2055083
75W	3600mm	Mini Continuum Trimless Silver	2055084
25W	1200mm	Mini Continuum Trimless Silver Emergency	2055091
50W	2400mm	Mini Continuum Trimless Silver Emergency	2055092
75W	3600mm	Mini Continuum Trimless Silver Emergency	2055093

### TECHNOLOGY COMPARISON TABLE

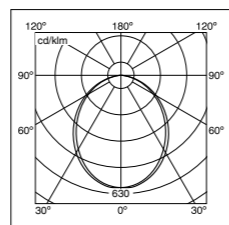
Description	Lamp/mA	Fixture Lumens	TOTAL W	TOTAL lm/W
Mini Continuum LED	at 1000mA	1463	21	69.67
Continuum	28W HF Batten	1311	31	46.20
TS	35W HF Batten	1808	39	46.36

### MINI CONTINUUM TRIMLESS PROFILES 4000K

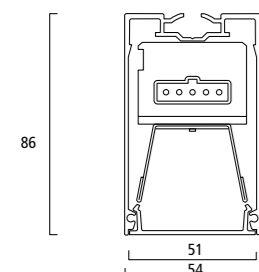
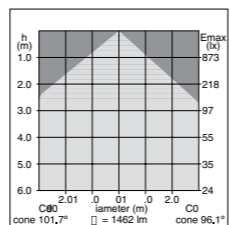
Wattage	Length	Description	Code
12W	600mm	Mini Continuum Trimless White	2056004
12W	600mm	Mini Continuum Trimless Silver	2056005
19W	900mm	Mini Continuum Trimless White	2056016
19W	900mm	Mini Continuum Trimless Silver	2056017
25W	1200mm	Mini Continuum Trimless White	2054890
50W	2400mm	Mini Continuum Trimless White	2054891
75W	3600mm	Mini Continuum Trimless White	2054892
25W	1200mm	Mini Continuum Trimless White Emergency	2054899
50W	2400mm	Mini Continuum Trimless White Emergency	2054900
75W	3600mm	Mini Continuum Trimless White Emergency	2054901
25W	1200mm	Mini Continuum Trimless Silver	2054893
50W	2400mm	Mini Continuum Trimless Silver	2054894
75W	3600mm	Mini Continuum Trimless Silver	2054895
25W	1200mm	Mini Continuum Trimless Silver Emergency	2054902
50W	2400mm	Mini Continuum Trimless Silver Emergency	2054903
75W	3600mm	Mini Continuum Trimless Silver Emergency	2054904

### MINI CONTINUUM TRIMLESS PROFILES 4000K DALI

Wattage	Length	Description	Code
12W	600mm	Mini Continuum Trimless White DALI	2056010
12W	600mm	Mini Continuum Trimless Silver DALI	2056011
19W	900mm	Mini Continuum Trimless White DALI	2056022
19W	900mm	Mini Continuum Trimless Silver DALI	2056023
25W	1200mm	Mini Continuum Trimless White DALI	2055097
50W	2400mm	Mini Continuum Trimless White DALI	2055098
75W	3600mm	Mini Continuum Trimless White DALI	2055099
25W	1200mm	Mini Continuum Trimless White Emergency	2055106
50W	2400mm	Mini Continuum Trimless White Emergency	2055107
75W	3600mm	Mini Continuum Trimless White Emergency	2055108
25W	1200mm	Mini Continuum Trimless Silver	2055100
50W	2400mm	Mini Continuum Trimless Silver	2055101
75W	3600mm	Mini Continuum Trimless Silver	2055102
25W	1200mm	Mini Continuum Trimless Silver Emergency	2055109
50W	2400mm	Mini Continuum Trimless Silver Emergency	2055110
75W	3600mm	Mini Continuum Trimless Silver Emergency	2055111



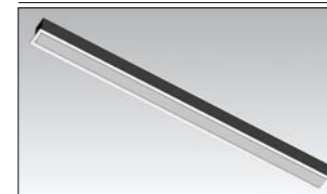
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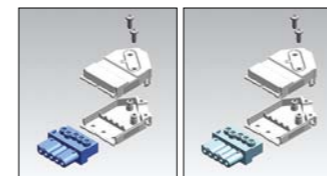
86

## MINI CONTINUUM LED Profile + Trim

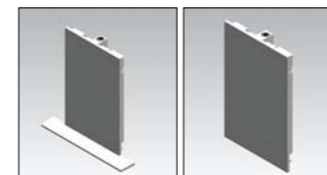
- Mini Continuum LED perfect homogenous light distribution with no shadows
- Clean horizontal and vertical lines of light
- Mini Continuum LED is based on the Golden mean or ratio and is regarded as the secret to aesthetics
- Mini Continuum LED profiles supplied complete with extrusion, diffuser & LED strips order accessories separately
- 3000K & 4000k colour temperature options
- Extrusion profiles offer trim and trimless options



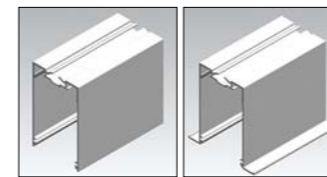
Mini Continuum LED Flanged



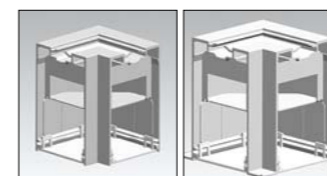
Wireable 5-Way Mains Connector and DALI Connector



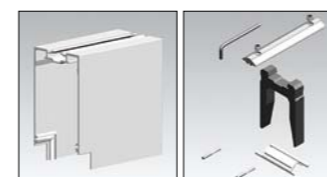
End Cap for Trim Modules and End Cap for Trimless Modules



Plain Extrusion Profile and Flanged Extrusion Profile



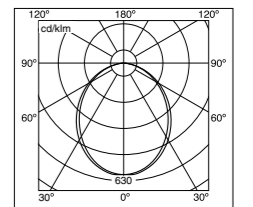
White/Silver 90° Horizontal Corner Trimless and White/Silver 90° Horizontal Corner Trim



White/Silver 90° Vertical Corner for Trimless Modules and Joiner Kit Spine and Pins

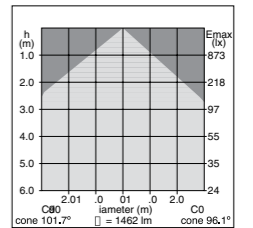
### MINI CONTINUUM PROFILE + TRIM 3000K

Wattage	Length	Description	Code
12W	600mm	Mini Continuum Profile + Trim White	2056006
19W	900mm	Mini Continuum Profile + Trim White	2056018
25W	1200mm	Mini Continuum Profile + Trim White	2054878
50W	2400mm	Mini Continuum Profile + Trim White	2054879
75W	3600mm	Mini Continuum Profile + Trim White	2054880
25W	1200mm	Mini Continuum Profile + Trim White Emergency	2054887
50W	2400mm	Mini Continuum Profile + Trim White Emergency	2054888
75W	3600mm	Mini Continuum Profile + Trim White Emergency	2054889



### MINI CONTINUUM PROFILE + TRIM 3000K DALI

Wattage	Length	Description	Code
12W	600mm	Mini Continuum Profile + Trim White DALI	2056012
19W	900mm	Mini Continuum Profile + Trim White DALI	2056024
25W	1200mm	Mini Continuum Profile + Trim White DALI	2055085
50W	2400mm	Mini Continuum Profile + Trim White DALI	2055086
75W	3600mm	Mini Continuum Profile + Trim White DALI	2055087
25W	1200mm	Mini Continuum Profile + Trim White Emergency	2055094
50W	2400mm	Mini Continuum Profile + Trim White Emergency	2055095
75W	3600mm	Mini Continuum Profile + Trim White Emergency	2055096



### MINI CONTINUUM LED PROFILE + TRIM 4000K

Wattage	Length	Description	Code
12W	600mm	Mini Continuum Profile + Trim White	2056007
19W	900mm	Mini Continuum Profile + Trim White	2056019
25W	1200mm	Mini Continuum Profile + Trim White	2054896
50W	2400mm	Mini Continuum Profile + Trim White	2054897
75W	3600mm	Mini Continuum Profile + Trim White	2054898
25W	1200mm	Mini Continuum Profile + Trim White Emergency	2054905
50W	2400mm	Mini Continuum Profile + Trim White Emergency	2054906
75W	3600mm	Mini Continuum Profile + Trim White Emergency	2054907

### MINI CONTINUUM LED PROFILE + TRIM 4000K DALI

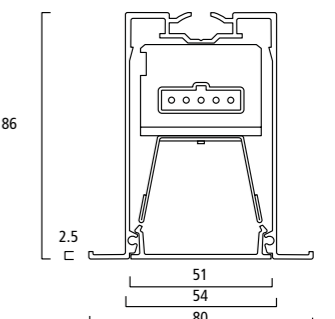
Wattage	Length	Description	Code
12W	600mm	Mini Continuum Profile + Trim White DALI	2056013
19W	900mm	Mini Continuum Profile + Trim White DALI	2056025
25W	1200mm	Mini Continuum Profile + Trim White DALI	2055103
50W	2400mm	Mini Continuum Profile + Trim White DALI	2055104
75W	3600mm	Mini Continuum Profile + Trim White DALI	2055105
25W	1200mm	Mini Continuum Profile + Trim White Emergency	2055112
50W	2400mm	Mini Continuum Profile + Trim White Emergency	2055113

### MINI CONTINUUM LED CONNECTORS AND ACCESSORIES

Description	Code
Wireable 5 Way Mains Connector Non-Dimming	2055115
Wireable 5 Way Mains & DALI Connector Dimming	2055380
White End Cap Trimless	2054901
Silver End Cap Trimless	2054911
White End Cap + Trim	2054912
Mechanical Joiner kit (including Light Spill Gasket)	2054914
White 90° Horizontal Corner Trimless	2054915
Silver 90° Horizontal Corner Trimless	2054916
White 90° Vertical Corner Trimless	2054917
Silver 90° Vertical Corner Trimless	2054918
White 90° Horizontal Corner Trim	2054919

### MINI CONTINUUM SUSPENSIONS - RECESSED

Description	Code
Recessed Mini Continuum plasterboard bracket	2054909



86



## Ambient

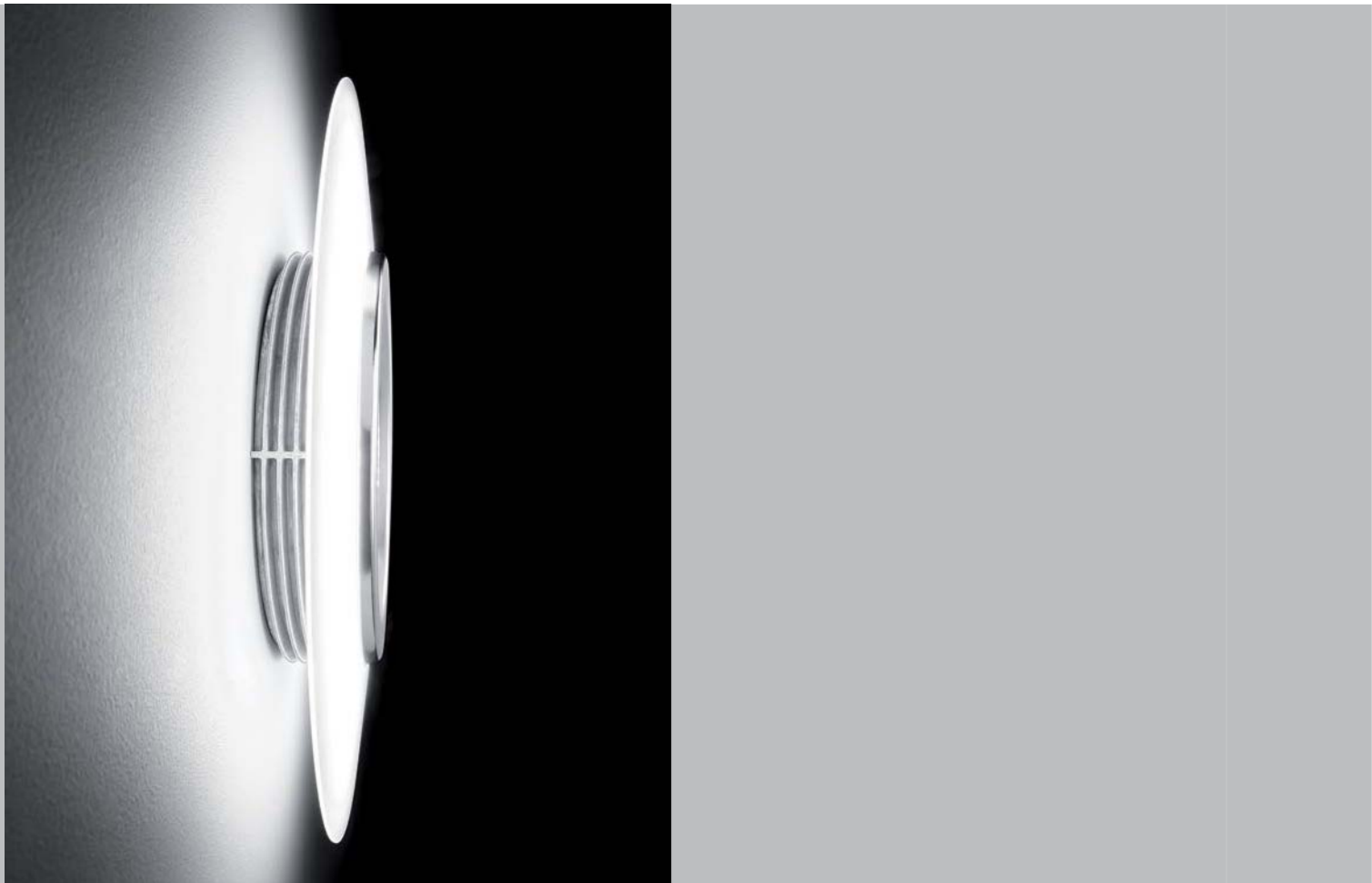
Whether you have a need for decorative impact resistant lighting within public circulation areas or a more robust vandal proof offering located outside in all types of weather, there is a model within our ambient range to suit your needs. All of our models are LED based giving you significant energy and efficiency savings in comparison to regular 2D light fittings.



### Application areas:

- Circulation
- Local authority
- Hospitality
- Education
- Office

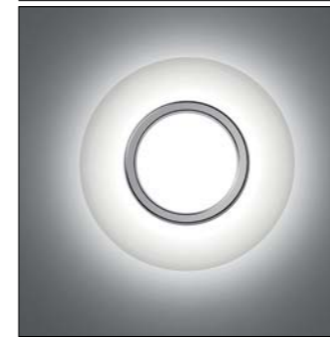
# Ambient Interior



## Glace



- Super slim architectural design provides ultra modern minimalism with cutting-edge LED technology
- Utilises low power super efficient LED array providing perfect homogenous light distribution
- Superior fixture lumens
- Aesthetic architectural form
- Wall and ceiling mounting
- Pendant option
- 50,000 hrs life at 70% of the original output L70
- Integral LED emergency options
- DALI dimming versions as standard
- Integral diffuser



Glace Round

### GLACE 3K

Description	Round	Square
Glace 3K HE	4068351	4068359
Glace 3K Emg HE	4068352	4068360
Glace 3K DALI HE	4068353	4068361
Glace 3K DALI Emg HE	4068354	4068362
Glace 3K HO	4068355	4068363
Glace 3K Emg HO	4068356	4068364
Glace 3K DALI HO	4068357	4068365
Glace 3K DALI Emg HO	4068358	4068366

### GLACE 4K

Description	Round	Square
Glace 4K HE	4068367	4068375
Glace 4K Emg HE	4068368	4068376
Glace 4K DALI HE	4068369	4068377
Glace 4K DALI Emg HE	4068370	4068378
Glace 4K HO	4068371	4068379
Glace 4K Emg HO	4068372	4068380
Glace 4K DALI HO	4068373	4068381
Glace 4K DALI Emg HO	4068374	4068382

### GLACE PENDANT

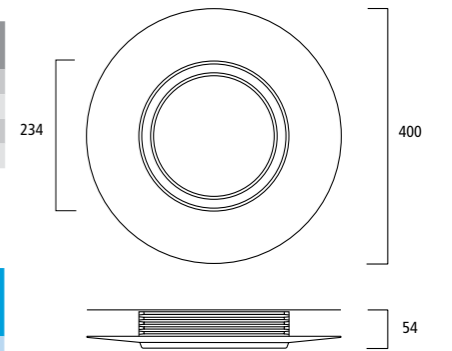
Description	Round
Glace PEND 3K HO	2055132
Glace PEND 3K DALI HO	2055133
Glace PEND 4K HO	2055134
Glace PEND 4K DALI HO	2055135

### TECHNOLOGY COMPARISON TABLE

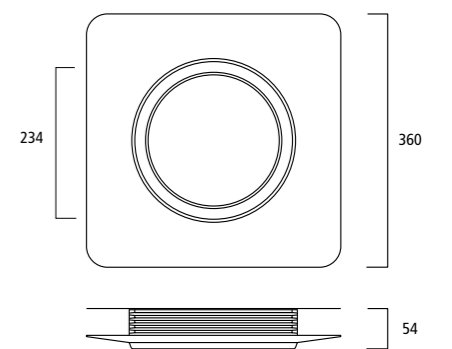
Description	Lamp/mA	Fixture Lumens	Lamp W	TOTAL W	TOTAL lm/W
<b>Glace LED</b>	HE 15W/ 500mA	1052	NA	15	71
	HO 20W/ 700mA	1431	NA	20	71
<b>Cassini</b>	28w 2D	675	28	32	21
	2 x 26W TC-D	1332	52	56	23.8

HE = High Efficiency HO = High Output

Round



Square





## CASSINI PLANAR LED

- Significant energy savings compared to traditional CFL and 2D fixtures
- Excellent flashing provides perfect homogenous light distribution
- Adjustable LED Driver allows changing of forward current on site from 700mA to 350mA
- 50,000 hours life, providing a maintenance free lighting solution
- Halo backlight
- Ceiling or wall mounted
- Integral emergency options – suitable for use on defined escape routes
- Choice of White and Brushed Aluminium trim finishes
- Compatible with remote microwave sensor for maximum energy savings
- Ease of installation with place and lock fitting mechanism



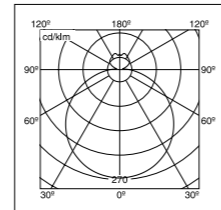
Cassini Planar Brushed Aluminium



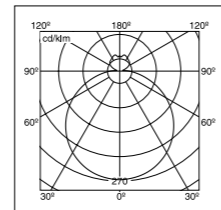
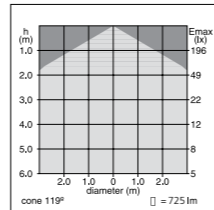
Cassini Planar White

### CASSINI PLANAR

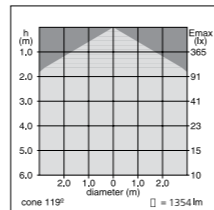
Description	White	Brs. Alum.
Cassini PLANAR 3000K 400mm	<b>4054920</b>	<b>4055048</b>
Cassini PLANAR 3000K 400mm Emergency	<b>4054921</b>	<b>4055049</b>
Cassini PLANAR 3000K DALI 400mm	<b>4054922</b>	<b>4055050</b>
Cassini PLANAR 3000K DALI 400mm Emergency	<b>4054923</b>	<b>4055051</b>
Cassini PLANAR 4000K 400mm	<b>4054924</b>	<b>4055052</b>
Cassini PLANAR 4000K 400mm Emergency	<b>4054925</b>	<b>4055053</b>
Cassini PLANAR 4000K DALI 400mm	<b>4054926</b>	<b>4055054</b>
Cassini PLANAR 4000K DALI 400mm Emergency	<b>4054927</b>	<b>4055055</b>



High Efficiency



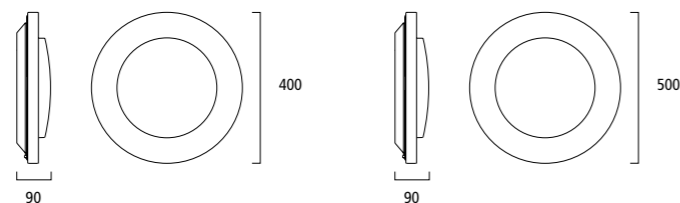
High Output



### TECHNOLOGY COMPARISON TABLE

Description	Lamp/mA	Fixture Lumens	Lamp W	TOTAL W	TOTAL lm/W
<b>Cassini LED</b>	HE 350mA	666	-	12	56
<b>Planar 3K</b>	HO 700mA	1244	-	22	57
<b>Cassini LED</b>	HE 350mA	725	-	12	60
<b>Planar 4K</b>	HO 700mA	1354	-	22	62

HE - High Efficiency HO = High Output



## CASSINI RADIUS LED

- Significant energy savings compared to traditional CFL and 2D fixtures
- Excellent flashing provides perfect homogenous light distribution
- Adjustable LED Driver allows changing of forward current on site from 700mA to 350mA
- 50,000 hours life, providing a maintenance free lighting solution
- Halo backlight
- Ceiling or wall mounted
- Integral emergency options – suitable for use on defined escape routes
- Choice of White and Brushed Aluminium trim finishes
- Compatible with remote microwave sensor for maximum energy savings



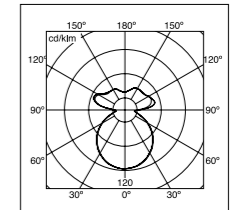
Cassini Radius Brushed Aluminium



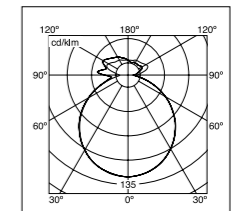
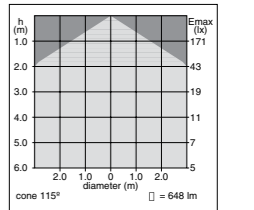
Cassini Radius White

### CASSINI RADIUS

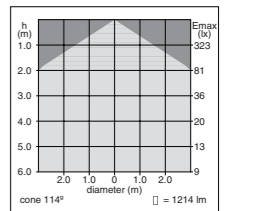
Description	White	Brs. Alum.
Cassini RADIUS 3000K 400mm	<b>4054928</b>	<b>4055056</b>
Cassini RADIUS 3000K 400mm Emergency	<b>4054929</b>	<b>4055057</b>
Cassini RADIUS 3000K DALI 400mm	<b>4054930</b>	<b>4055058</b>
Cassini RADIUS 3000K DALI 400mm Emergency	<b>4054931</b>	<b>4055059</b>
Cassini RADIUS 4000K 400mm	<b>4054932</b>	<b>4055060</b>
Cassini RADIUS 4000K 400mm Emergency	<b>4054933</b>	<b>4055061</b>
Cassini RADIUS 4000K DALI 400mm	<b>4054934</b>	<b>4055062</b>
Cassini RADIUS 4000K DALI 400mm Emergency	<b>4054935</b>	<b>4055063</b>



High Efficiency

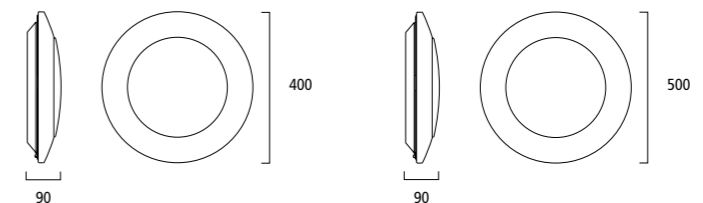


High Output



### TECHNOLOGY COMPARISON TABLE

Description	Lamp/mA	Fixture Lumens	Lamp W	TOTAL W	TOTAL lm/W
<b>Cassini LED</b>	HE 350mA	648	-	12	54
<b>Radius 3K</b>	HO 700mA	1214	-	22	55
<b>Cassini LED</b>	HE 350mA	705	-	12	59
<b>Radius 4K</b>	HO 700mA	1320	-	22	60



## Ambient Exterior

Our next generation of ambient exterior luminaires feature innovative LED technology and offer perfect water-proofing against the elements. Suitable for many outdoor application areas certain models within the range are also impact resistant and vandal proof to provide safe havens of light for added security.





Ideal for exterior use

## BRIO IP65 LED (Waterproof)

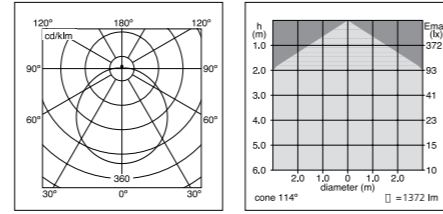
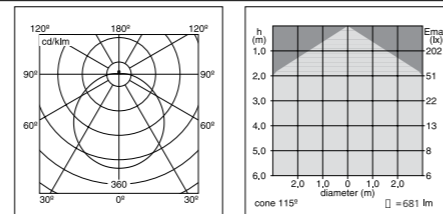


- Significant energy savings compared to traditional CFL and 2D fixtures
- Excellent flashing provides perfect homogenous light distribution
- Adjustable LED Driver allows changing of forward current on site from 700mA to 350mA
- 50,000 hours life, providing a maintenance free lighting solution
- Attractive, tough IK10 impact resistant construction (LED only)
- 104-119mm discrete profile
- Aesthetically pleasing designs
- IP65 water jet proof
- Compatible with remote microwave sensor for maximum energy savings



### BRIO IP65 LED

Description	White	Silver	Black
BRIO IP65 LED 3000K	4054936	4054940	4054944
BRIO IP65 LED 3000K Emergency	4054937	4054941	4054945
BRIO IP65 LED 3000K DALI	4054938	4054942	4054946
BRIO IP65 LED 3000K DALI Emergency	4054939	4054943	4054947
BRIO IP65 LED 4000K	4054948	4054952	4054956
BRIO IP65 LED 4000K Emergency	4054949	4054953	4054957
BRIO IP65 LED 4000K DALI	4054950	4054954	4054958
BRIO IP65 LED 4000K DALI Emergency	4054951	4054955	4054959

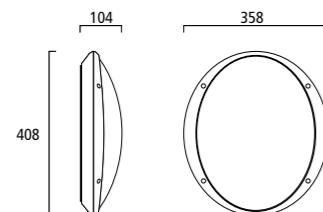


### ACCESSORY ORDER SEPARATELY

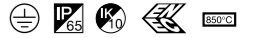
Tamper resistant screws and key **4064201**

### TECHNOLOGY COMPARISON TABLE

Description	Lamp/mA	Fixture Lumens	Lamp W	TOTAL W	TOTAL lm/W
<b>Brio LED</b>	HE 350mA	681	-	12	57
<b>3K</b>	HO 700mA	1266	-	22	58
<b>Brio LED</b>	HE 350mA	734	-	12	61
<b>4K</b>	HO 700mA	1372	-	22	62



Weather and vandal resistant



## BRIO IP65 Vandal resistant LED

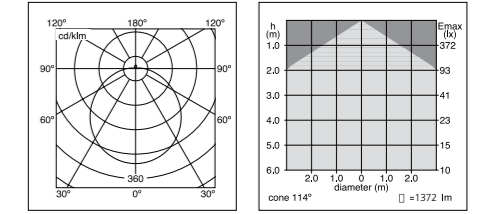
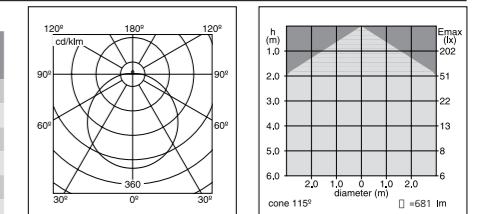
- Significant energy savings compared to traditional CFL and 2D fixtures
- Excellent flashing provides perfect homogenous light distribution
- Adjustable LED Driver allows changing of forward current on site from 700mA to 350mA
- 50,000 hours life, providing a maintenance free lighting solution
- Unique design making the range highly vandal resistant. IK10
- High performance optics allows wide spacing
- New class 2 classification for improved electrical safety
- Compatible with remote microwave sensor for maximum energy savings



Brio IP65 Vandal Resistant

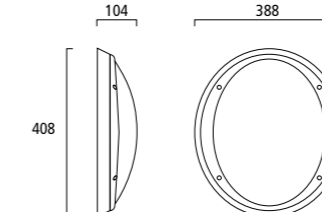
### BRIO IP65 VANDAL RESISTANT LED

Description	White	Silver	Black
BRIO IP65VR LED 3000K	4054960	4054964	4054968
BRIO IP65VR LED 3000K Emergency	4054961	4054965	4054969
BRIO IP65VR LED 3000K DALI	4054962	4054966	4054970
BRIO IP65VR LED 3000K DALI Emergency	4054963	4054967	4054971
BRIO IP65VR LED 4000K	4054972	4054976	4054980
BRIO IP65VR LED 4000K Emergency	4054973	4054977	4054981
BRIO IP65VR LED 4000K DALI	4054974	4054978	4054982
BRIO IP65VR LED 4000K DALI Emergency	4054975	4054979	4054983

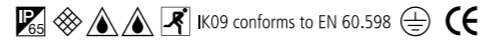


### TECHNOLOGY COMPARISON TABLE

Description	Lamp/mA	Fixture Lumens	Lamp W	TOTAL W	TOTAL lm/W
<b>Brio LED</b>	HE 350mA	681	-	12	57
<b>3K</b>	HO 700mA	1266	-	22	58
<b>Brio LED</b>	HE 350mA	734	-	12	61
<b>4K</b>	HO 700mA	1372	-	22	62



Perfect for outdoor placement



## MONITOR LED

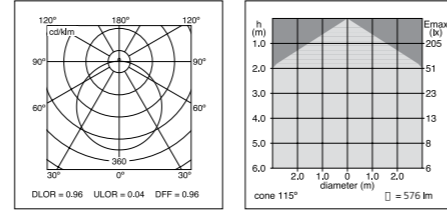
- Significant energy savings compared to traditional CFL and 2D fixtures
- Excellent flashing provides perfect homogenous light distribution
- Adjustable LED Driver allows changing of forward current on site from 700mA to 350mA
- 50,000 hours life, providing a maintenance free lighting solution
- Pressure die cast housing and polycarbonate diffuser for extra vandal resistance
- Emergency options for use on defined escape routes
- Patress allows surface conduit entry
- Compatible with remote microwave sensor for maximum energy savings



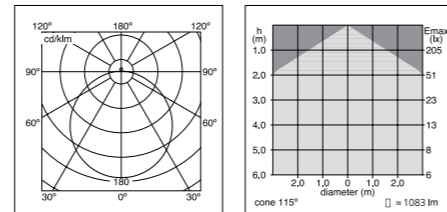
Monitor LED

### MONITOR LED

Description	Black	Silver
Monitor 3000K	<b>4055064</b>	<b>4055068</b>
Monitor 3000K Emergency	<b>4055065</b>	<b>4055069</b>
Monitor 3000K DALI	<b>4055066</b>	<b>4055070</b>
Monitor 3000K DALI Emergency	<b>4055067</b>	<b>4055071</b>
Monitor 4000K	<b>4055000</b>	<b>4055004</b>
Monitor 4000K Emergency	<b>4055001</b>	<b>4055005</b>
Monitor 4000K DALI	<b>4055002</b>	<b>4055006</b>
Monitor 4000K DALI Emergency	<b>4055003</b>	<b>4055007</b>



High Efficiency



High Output

### ACCESSORIES MICROWAVE SENSORS

Option to add microwave sensor for maximum energy savings

### CONTROL

Description	
User Control – Basic on/off	<b>0041559</b>
User Control (includes override) – on/off, raise lower, override	<b>0041561</b>
Basic Programming Handset – Basic Commissioning	<b>0041546</b>
Advanced Programming Handset – Commissioning of all features	<b>0041562</b>

### ADJUSTABLE SENSORS

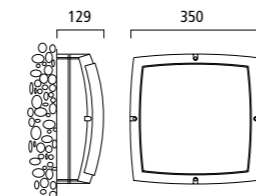
Description	Region	DALI/DSI Dimming
Tilt-Adjustable Microwave Sensor (Ceiling Mounted)	UK	<b>0041552</b>
	Europe (except for others listed)	<b>0041580</b>
	France, Portugal & Switzerland	<b>0041583</b>
	Germany, Austria & Slovak Rep.	<b>0041586</b>
	Ireland	<b>0041589</b>
Surface mount back box (to fit adjustable microwave sensor)	–	<b>0041591</b>
Wall mount bracket	–	<b>0041592</b>

### SENSORS

Description	Region	DALI/DSI Dimming
Microwave Sensor (Ceiling Mounted)	Suits all regions	<b>0041557</b>
Surface mount back box to fit 0041557	–	<b>0041558</b>

### TECHNOLOGY COMPARISON TABLE

Description	Lamp/mA	Fixture Lumens	Lamp W	TOTAL W	TOTAL lm/W
<b>Monitor</b>	HE 350mA	532	-	12	44
<b>3K</b>	HO 700mA	999	-	22	45
<b>Monitor</b>	HE 350mA	576	-	12	48
<b>4K</b>	HO 700mA	1083	-	22	49



**Control Gear:** LED with built in ballast and capacitor  
**Emergency:** Integral 3hr maintained  
**Diffuser:** Flame retardant polycarbonate opal  
**Housing, trim and accessories:** Pressure die cast aluminium, anti corrosion pre-treated prior to powder coating white RAL9016, black RAL 9005, silver RAL 9006  
**Retaining Screws:** Stainless steel  
**Patress:** ABS, removable blanking covers supplied

The contractors choice for exterior ambient



## STERLING BULKHEAD LED

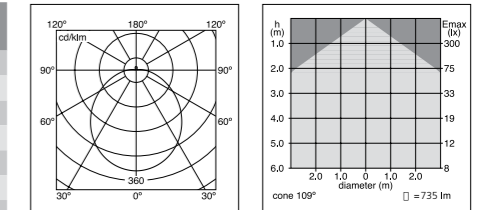
- Significant energy savings compared to traditional CFL and 2D fixtures
- Excellent flashing provides perfect homogenous light distribution
- Adjustable LED Driver allows changing of forward current on site from 700mA to 350mA
- 50,000 hours life, providing a maintenance free lighting solution
- Pressure die cast housings and polycarbonate diffusers for extra vandal resistance
- 2 mounting options, surface and light halo
- Tamper resistant kit available
- Compatible with remote microwave sensor for maximum energy savings



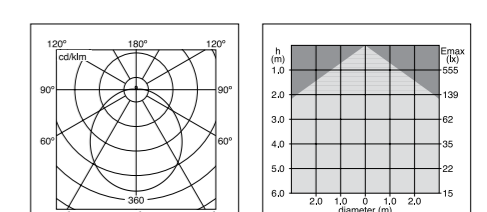
Sterling Bulkhead LED

### STERLING BULKHEAD LED

Description	Black	Silver
Sterling Bulkhead 3000K	<b>4054984</b>	<b>4054988</b>
Sterling Bulkhead 3000K Emergency	<b>4054985</b>	<b>4054989</b>
Sterling Bulkhead 3000K DALI	<b>4054986</b>	<b>4054990</b>
Sterling Bulkhead 3000K DALI Emergency	<b>4054987</b>	<b>4054991</b>
Sterling Bulkhead 4000K	<b>4054992</b>	<b>4054996</b>
Sterling Bulkhead 4000K Emergency	<b>4054993</b>	<b>4054997</b>
Sterling Bulkhead 4000K DALI	<b>4054994</b>	<b>4054998</b>
Sterling Bulkhead 4000K DALI Emergency	<b>4054995</b>	<b>4054999</b>



High Efficiency



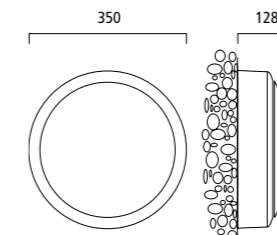
High Output

### ACCESSORIES ORDERED IN ADDITION TO FITTING

Hood	–	<b>4037279</b>	<b>4041005</b>	<b>0.50kg</b>
3 Bar Grille	–	<b>4037280</b>	<b>4041004</b>	<b>0.20kg</b>
X bar	–	<b>4037281</b>	<b>4041007</b>	<b>0.20kg</b>

### TECHNOLOGY COMPARISON TABLE

Description	Lamp/mA	Fixture Lumens	Lamp W	TOTAL W	TOTAL lm/W
<b>Sterling</b>	HE 350mA	662	-	12	55
<b>3K</b>	HO 700mA	1232	-	22	56
<b>Sterling</b>	HE 350mA	735	-	12	61
<b>4K</b>	HO 700mA	1373	-	22	62





# Lighting Controls

In a world where cost-saving gives competitive advantage, where Corporate-Social-Responsibility is central to your company's brand-image, and where legislative compliance is crucial, deployment of lighting control systems answers these three challenges.



## Energy Efficient Lighting Controls

Conservation of energy from automated controls can reduce lighting-related energy consumption by up to 60%. With a range of sophisticated products that enable immediate energy savings and simple operation, Havells-Sylvania offers a complete end-to-end solution for lighting. From daylight-harvesting and digital dimming to emergency-testing and energy-use reporting, a bespoke system using DALI and Ethernet networks can be expanded from single rooms and corridors to complete building-wide control, optimising building running costs whilst maintaining comfort and safety. Control systems can also improve the simplicity of operation of lighting installations, automating regular switching patterns, regulating light levels and allowing entire floors or buildings to change from 'daytime' to 'night-time' illumination settings at the press of a single button.

Havells-Sylvania is able to arrange the planning and commissioning of a broad range of control systems tailored to meet the requirements of each specific installation from a simple luminaire including daylight linking to sophisticated PC controlled systems incorporating hundreds or thousands of luminaires. A brief summary of control principals and technologies follows, for further information on the range of control systems available please contact our sales office or your local sales representative.



Presence detection



Absence detection



Passive InfraRed sensor



Microwave sensor

### Types of control

#### On/off switching

- Local switch control  
Lighting control at its most basic - the use of a local switch plate to turn light luminaire on and off as required.

- Occupancy sensing  
Presence detection: lights on automatically when motion is detected. Lights off automatically when area is unoccupied for a period of time.

Absence detection: lights switched on manually by the user, lights off automatically.

PIR sensor: detects the movement of a warm body.  
Microwave sensor: detects any small movement over a larger area.

- Timed control  
Automates the switching on and off of luminaires during the day i.e. to ensure that all (or selected) luminaires are switched off at times when the building, or areas within the building, will be unoccupied. These timed events can also be based on an astronomical clock, allowing the automated times to be offset to sunrise and sunset.

#### Switch Dim

A variety of different systems are available, but all work using mains voltage as a control signal. Depending on how long a conventional push-to-make switch is held down the ballast can interpret the signal either as a dimming or switching command.

Allows fittings to be dimmed through the use of a local switch plate, providing a greater degree of control to the occupants of the space.

#### DSI

With this system both on/off and 1% - 100% power regulation are achieved by means of a digital signal broadcast to all of the ballasts on a control circuit (loop). Control requires the use of more sophisticated equipment. Control is usually achieved through the use of more sophisticated switch plates or remote control devices to recall and adjust desired dimming levels. The dimming curve used in DSI ballasts ensures that changes in light level are friendlier to the human eye when compared to the traditional 1-10V ballast. With DSI there is the potential for a maximum of 100 ballasts per loop.

#### Daylight Harvesting Systems

Uses photocells to maintain an approximate illumination level within an area by either switching or dimming luminaires as the amount of daylight within an area increases or decreases.

#### 1-10V Analogue

Analogue ballasts incorporate a dimming circuit which regulates the lamp power - typically between 10-100% depending on lamp or luminaire type, normally controlled through either a linear or rotary potentiometer (dimmer). On/Off control requires a separate On/Off mains switch within the circuit.

#### Regulation parameters:

- No signal/connection = full output
- 10V = full output
- 1V = minimum output

Changes in light level tend to have a non-linear appearance to the human eye when the dimming is adjusted. The maximum number of ballasts on a circuit is dependent upon the total control circuit current and the potentiometer capacity. Any change to the system may require the system to be re-wired.

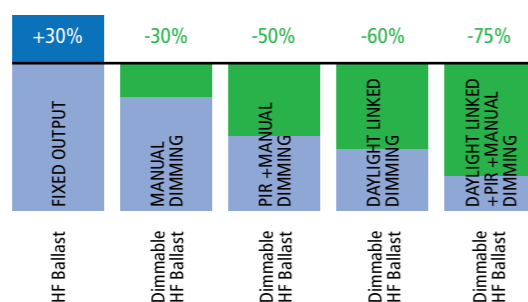
#### DALI - Digital Addressable Lighting Interface

DALI ballasts provide both power regulation and on/off switching along with a degree of local intelligence within each ballast, reducing the complexity of the control system. In a DALI system each ballast on a loop can be individually addressed and controlled, providing potential to greatly reduce the wiring complexity and allowing changes to the system to be achieved by simply reprogramming the ballasts. Each DALI loop can accommodate a maximum of 64 ballasts and each ballast can be allocated to up to 16 control groups. A maximum of 16 pre-programmed scenes levels can also be programmed into each ballast, for easy recall by the control system.

#### Additionally DALI can provide:

- Function checks of ballasts and lamps in each luminaire from a central position.
- Storage of pre-programmed information in the ballast (e.g. pre-set illumination levels of fixture grouping).

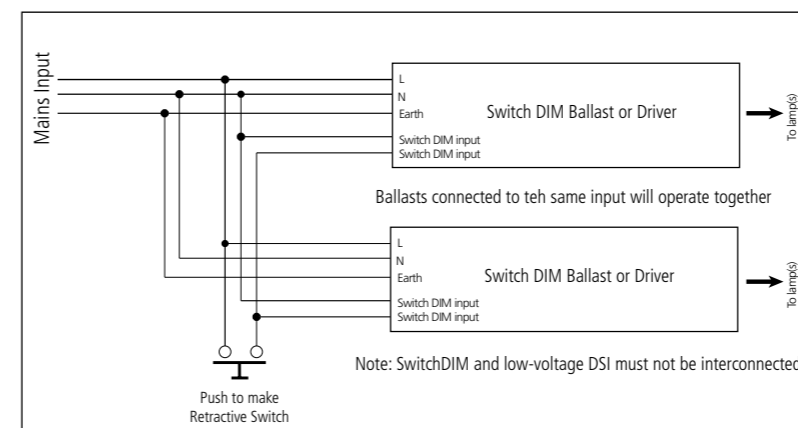
Changes in light level tend to have a linear appearance when the dimmer is adjusted.



## Lighting Control Wiring Diagrams

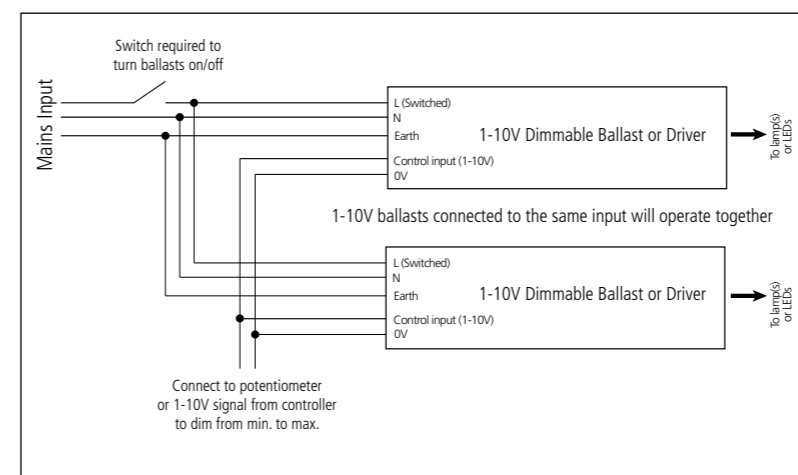
The following guides provide examples of typical wiring diagrams and requirements for the four main types of control systems:

- Switch dim ballast** – using local push to make switches
- 1-10V analogue dimmable ballast** – Incorporating a dimmer circuit and controlled by local potentiometer
- Digital Serial Interface (DSI)** – Requiring a control loop to send digital control signals and local switch plates or remote control device to control (usually requires programming)
- Digital Addressable Lighting Interface (DALI)** – incorporating dimmer and local intelligence, requires a DALI bus and control devices or by sophisticated management systems



### Switch Dim Ballasts

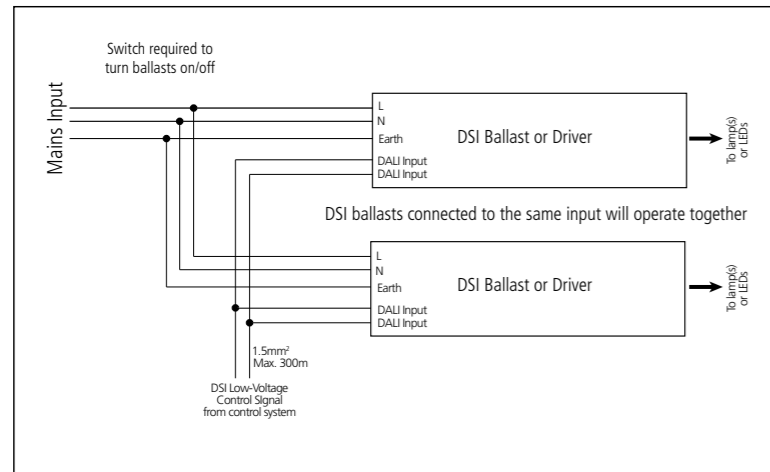
- All ballasts require a permanent mains supply
- Switch is push-to-make (retractive)
- Max number of ballast is governed by rating of the push-to-make switch
- All wiring is mains rated
- Do not connect to a low voltage control equipment



### 1-10V Analogue Dimmable Ballasts

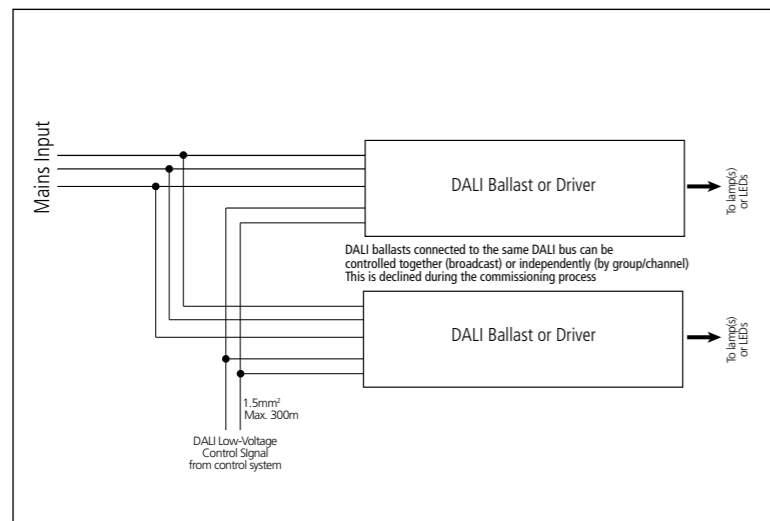
- All external wiring 'by others' to comply with relevant standards
- Dimming control cable to be 2 core screened min 0.75mm Polarity must be maintained. Use loop-in, loop-out method
- Separate switch required for on/off

## Lighting Control Wiring Diagrams



### DSI - Digital Serial Interface

- All ballasts require a permanent mains supply
- DSI signal cable is a dedicated 2 core wired with a free-topology
- DSI controller may have various inputs
- There may be restrictions on number of ballasts on one controller typically a ballast requires 2mA and a typical controller may be able to supply up to 20mA, 100mA or, in some cases of larger controllers, up to 200mA.
- System may require 'programming'

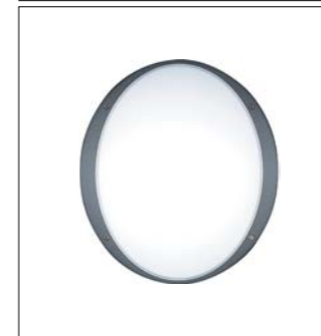


### DALI - Digital Addressable Lighting Interface

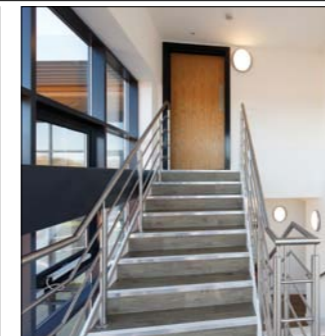
- All ballasts require a permanent mains supply
- DALI data highway is dedicated 2 core cable
- Use 1.5mm<sup>2</sup> cable, 300m max, no loops
- System MAY require programming, unless broadcast-DALI is being used where all ballasts always perform the same operations

## Integrated/Remote controls within luminaires

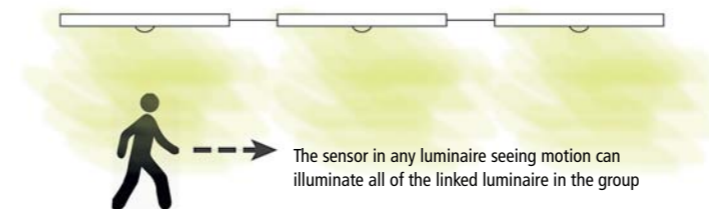
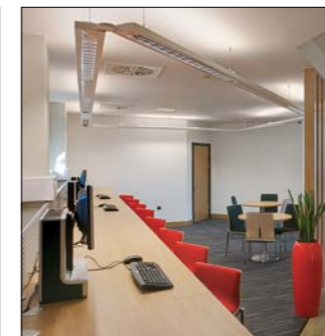
- "Intelligent" Luminaires with Lighting Controls Built-In
- Certain Concord luminaires are available with controls built-in for occupancy detection and/or daylight harvesting
- Standard products include bulkhead and linear luminaires with occupancy detection and daylight harvesting built in



Concord Brio LED range with remote miniature microwave detector



Concord Quadrille with integrated miniature PIR detector



### Grouped Control Behaviour

Individual sensor-equipped luminaires can be linked together to act in a group, where any sensor detecting motion can switch on the whole group. This enables larger areas to be controlled as one. Fixtures close to windows can still independently regulate their output according to daylight.

Speak to our sales team for more information and a bespoke solution for your project.



Analogue Light Level Regulator

### Analogue Light Level Regulator

For 1-10V linear luminaires: Clips onto the lamp in a linear luminaire, and provides a 1-10V control signal to the ballast.

Code: P223409



## Control Boxes LCMs

Our LCM (Lighting Control Module) range provides control of up to 10 luminaires. The controller unit can be configured to operate in a number of combinations and on request it is possible to have each channel controlled separately, channel A has 4 luminaire outputs, Channel B has 2 and Channel C has 4. Additional pluggable connections allows for the testing of emergency fittings and connections for a simple corridor hold feature.

### Applications

- Schools
- Colleges/Universities
- Hospitals
- Public buildings
- Commercial offices



Lighting Control Module



PIR Sensor

### CONTROL BOXES LCMs

Type	Motion	Light	Channels	Switched/Dimming	Code
1	Absence	Daylight Dim	All together	DSI	2045812
2	Presence	Daylight Dim	All together	DSI	2045813
3	Absence	–	All together	Switched	2045814
4	Presence	–	All together	Switched	2045815
5	Absence	–	3 Channels Detector Overrides All	Switched	2045816
6	Presence	–	3 Channels Detector Overrides All	Switched	2045817
7	Absence	Daylight Dim	3 Channels	DSI	2045818
8	Presence	Daylight Dim	3 Channels	DSI	2045819
9	Absence	Daylight	All together	DALI	2045823
10	Presence	Daylight	All together	DALI	2045824
11	Absence	Daylight	2 Channels (A,B,C)	DALI	2045825

## Energy Saving Controls LCMs



Lighting Control Module

### DIMMING DETECTORS

(to connect to LCMs with a dimming capability i.e. 1-10V/DSI/DALI output protocol)

Description	Code
LCM PIR Sensor with dimming & infra red override control	2040578
LCM Microwave Sensor with dimming & infra red	2040579
LCM Photocell (for daylight dimming applications)	2040822

Please note: Above items connect to a DSI or 1-10V LCM. Order RJ45 patch lead separately to connect detectors to LCM

### NON DIMMING DETECTORS

(to connect switched only lighting module)

Description	Code
LCM basic PIR Sensor	2040819
LCM Microwave Sensor with infra red override control	2040579

Please note: Above items connect to a switched only lighting module Order RJ45 patch lead separately to connect detectors to LCM

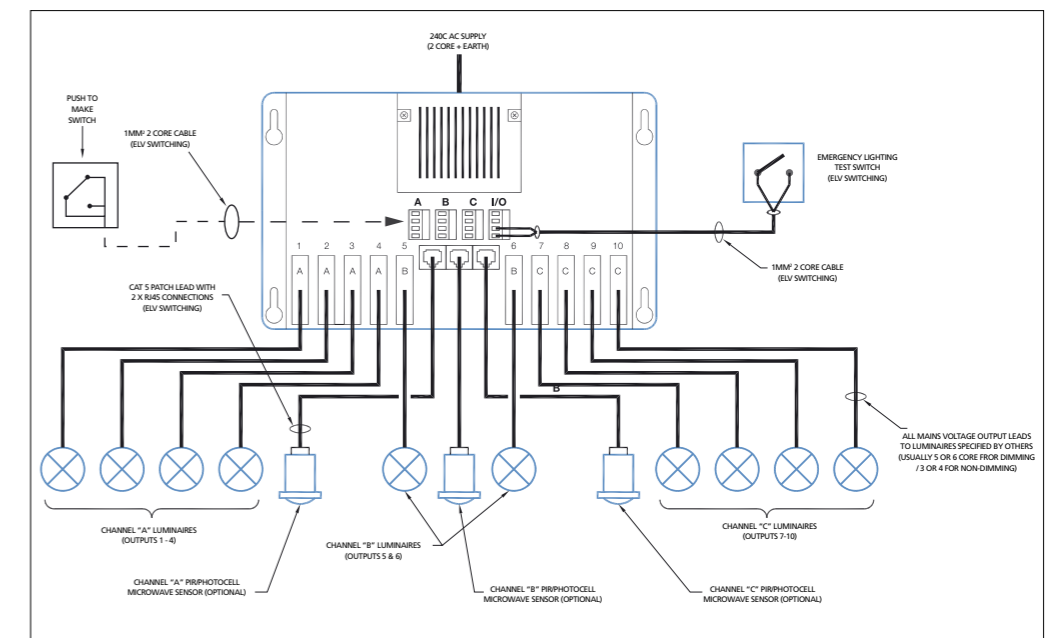
### RJ45 PATCH LEADS FOR SENSOR CONNECTION

Description	Code
3M patch lead RJ45 to RJ45	2041554
5M patch lead RJ45 to RJ45	2041555

### CABLE LOOMS (1MM<sup>2</sup> & 6 POLE CONNECTOR TO BARE ENDS) FOR LUMINAIRE CONNECTION

Description	Length	Cores	Code
Cable loom	3M	3	2041254
Cable loom	5M	3	2041255
Cable loom	8M	3	2041256
Cable loom	3M	3	2041257
Cable loom	5M	3	2041258
Cable loom	8M	3	2041259
Cable loom	3M	3	2041260
Cable loom	5M	3	2041261
Cable loom	8M	3	2041262
Cable loom	3M	3	2041263
Cable loom	5M	3	2041264
Cable loom	6M	3	2041265

Please note:  
Standard switched luminaire – 3 core  
Standard switched luminaire with emergency facility – 4 core  
Standard dimmable luminaire – 5 core  
Standard dimmable luminaire with emergency facility – 6 core



## DIN Rail Controls

### Introduction

A modular range of DIN-rail mounting control products, to enable system functionality to be made up of simple building-blocks. Systems without a Network Processor module can perform scene-setting on 8 scenes or can control 8 individual channels. Systems with a Network Processor can be commissioned to offer a wide variety of system operational behaviour across many scenes and channels, including control from a web-browser. This range of products is ideally suited to control of DALI luminaires on a track system



DALI track controller



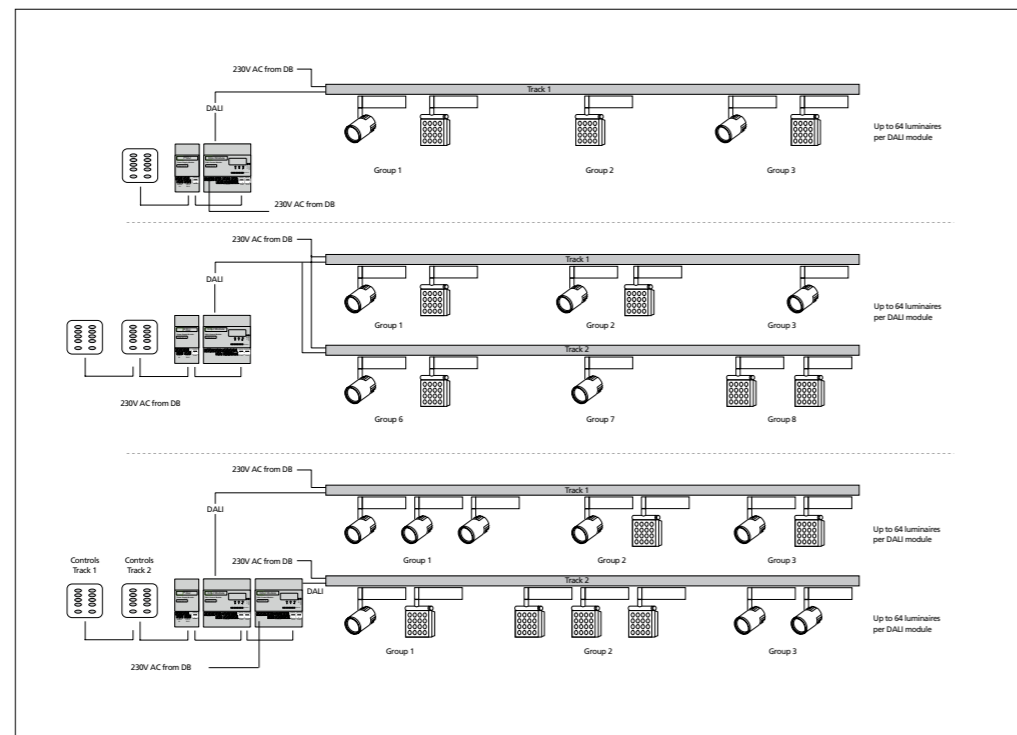
Control plate

### MODULES

Description	Size (U)	Code
DIN Rail PSU	3	0041613
DIN Rail DALI Module - Connects to DALI track for control of DALI fixtures	6	0041612
DIN Rail Network Processor - Contains the control behaviour definition for systems with more than 8 independent channels, and also enables web-browser control	6	0041627
DIN Rail LV I/O Module - For switch inputs, sensors, simple colour/sequence-selection via a DMX output and DSI / 1-10v control	6	0041626
DIN Rail Relay Module - 4 channels x 5A each, feed-through	6	0041628
DIN Rail Dimmer Module - 8 channels x 2A each	9	To order
Control plate, wall-mounting, 10 buttons	-	0041614
Fascia for control plate, Brushed Stainless Steel	-	0041615
Fascia for control plate, White	-	0041616
Fascia for control plate, Polished Brass	-	0041617
Fascia for control plate, Polished Chrome	-	0041618
Fascia for control plate, Antique Bronze	-	0041619
Enclosure 1 x 12U	12	0041622
Enclosure 1 x 18U	18	0041623
Enclosure 2 x 12U	24	0041624

Where one U is equivalent to the size of one MCB

### Typical system layout with DALI Track



## OriDIM Small Room Controls

The OriDIM system is ideal for small rooms. The system can be controlled by a wall plate and/or a sensor, facilitating scene-setting in combination with optional occupancy detection and light-level regulation at the same time. An interface is available to allow simple retractable switches to select scenes, or raise/lower light levels. Up to four circuits may be controlled independently. Each circuit is connected to luminaires via an "addresser" interface, which broadcasts either an analogue, DSI or DALI control signal to the ballasts. Each interface may control up to 10 ballasts. Interfaces are available with a relay, to cut power to the ballasts when they are "Off" to save energy.

### System key benefits:

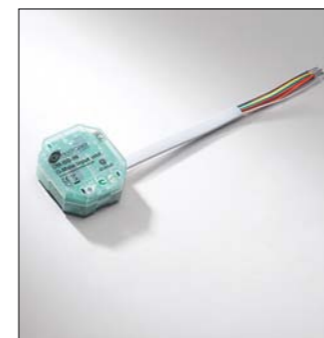
- Ballasts do not require individual commissioning, making DALI control simple
- Either scene-setting or sensor control, or both may be used together



Wall Plate



PIR Sensor



Switch Interface

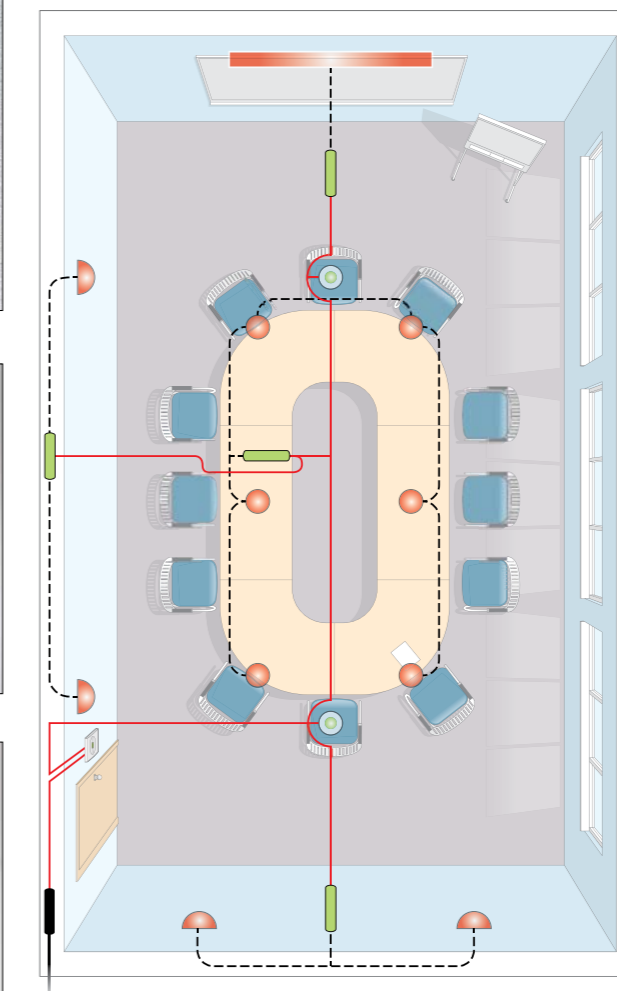


Interface for DSI/DALI Channel

### ORIDIM SMALL ROOM CONTROLS

Description	Function	mA	Code
Power supply	Required for every system	(200)	0041634
Wall plate	Scene setting, system programming	16	0041635
PIR sensor	Configurable for presence/absence	8	0041630
Switch interface	Allows connection of up to 8 retractable switches	6	0041636
Interface for DSI/DALI channel	Control up to 10 DSI or DALI ballasts together	8	0041631
Interface for DSI/DALI channel with switched output	Control up to 10 DSI or DALI ballasts together, includes a relay to switch off the power	8	0041632
Interface for 1-10V channel with switched output	Control up to 10 analogue ballasts together, includes a relay to switch off the power	8	0041633

### Example system layout: Meeting room



- Sensors for presence and lux
- Independent control for each channel
- Control plate for set scenes – for meetings presentations etc.



## Three Circuit/DALI Track Systems

In 1959 Concord introduced Lytespan One track into Europe and was the only supplier of lighting track in Europe for nearly ten years.

Lytespan DALI is another new addition to the incredibly successful range of Concord Lytespan track ranges spanning 50 years of design and engineering expertise.





## Three Circuit/DALI Track Systems

Concord Lytespan 3 track is a polarised 16amp three circuit track system with a common neutral, each circuit can be individually dimmed. In the DALI track version one conductor carries the power and the two other circuits are used to pick up the DALI data signal.

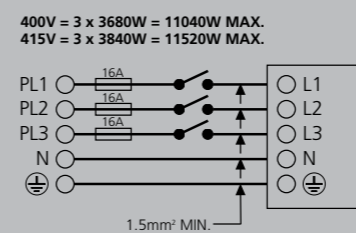
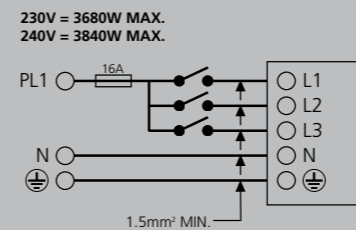
- Polarised 16amp three circuit track system with a common neutral
- Suitable for use with Concord and other European three circuit adaptors
- Each of the three circuits can be independently dimmed
- Unique Lytespan 3 eventurii trunk profile in standard or recessed form
- Couplers and feeds are pre-wired and polarised for ease of installation
- Broad range of universal suspensions
- Polarised and fully earthed to latest international standards
- LED emergency modules  
See pages 74-75



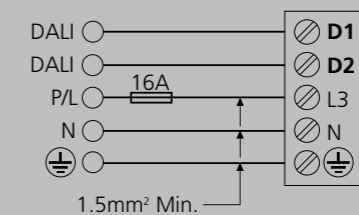
A wide range of standard DALI accessories ensures that the track can be installed easily and safely wired. This solution also means that it is possible to simply and economically upgrade any existing Lytespan 3 track installations to DALI technology just by replacing the existing track accessories with the new DALI components and reconfigure the wiring.

Concord provides a wide range of dedicated spotlights supplied with a special DALI adaptor which is designed for both mechanical, electrical and data connection.

**Construction**  
Extruded aluminium profile  
PVC liner in housing 4 copper conductors  
**Total Max Load**  
240 (230) VAC supply  
3840w (3680w) ÷ 3  
Each circuit separately fused at 16 amps



Where National wiring regulations allow.



There can be no closed rings in the wiring and the maximum distance between the gateway and the DALI unit is 300m

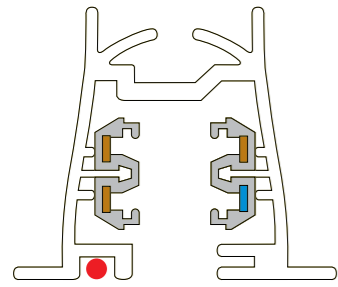
Lead Length	Minimum Lead Diameter
Up to 100m	0.50mm <sup>2</sup>
100 – 150m	0.75mm <sup>2</sup>
Above 150m	1.50mm <sup>2</sup>

The maximum lead length between two connected systems must not exceed 300 metres.

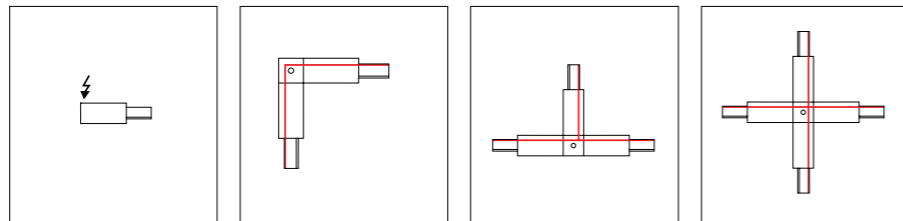
## Three Circuit/DALI Track System

### Planning Aid

- Lytespan 3 track features a polarisation channel running along one side of its entire length.
- All Lytespan 3 feeds and couplers except Live Ends are supplied pre-polarised, with wires for ease of installation
- When planning a scheme it is important that:
  - The polarisation channel is continuous around corners and grids
  - The layout shows the correct view from **above**



Polarisation Channel



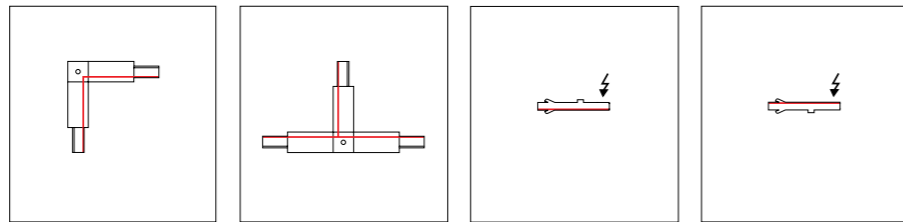
Plug-in live End  
UNIVERSAL

Polarity tab indicates correct way to wire

L Coupler  
OUTSIDE

T Coupler  
RIGHT

X Coupler  
UNIVERSAL



L Coupler  
INSIDE

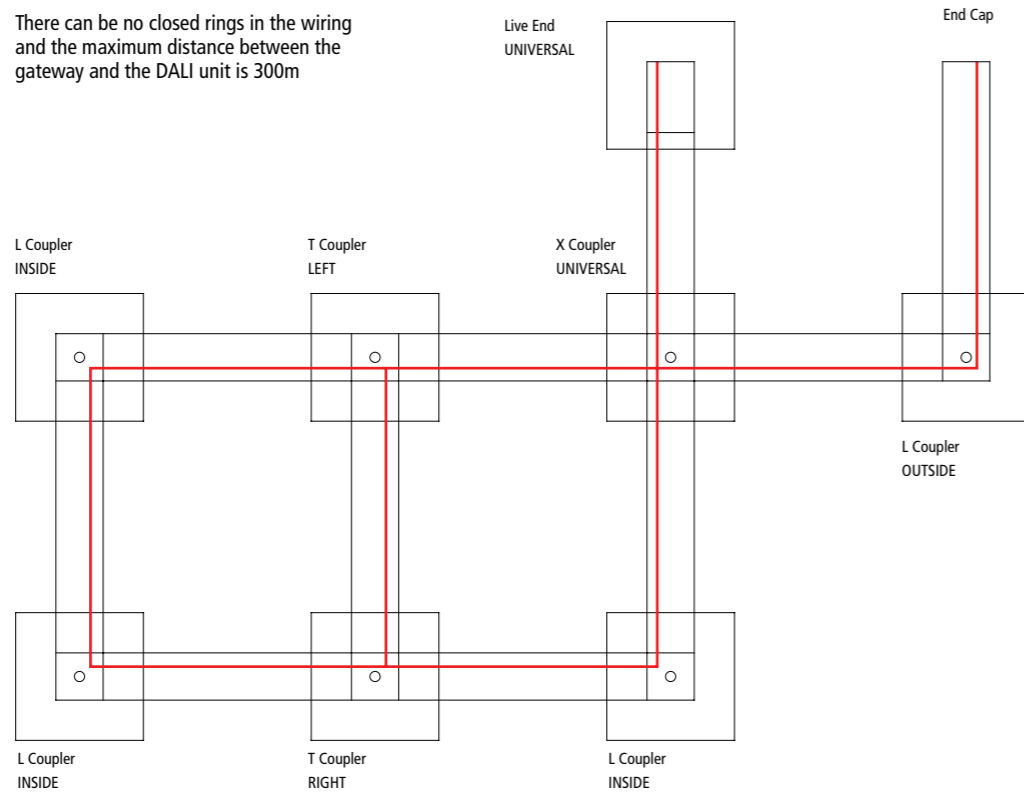
T Coupler  
LEFT

Push-up Feed  
LEFT

Push-up Feed  
RIGHT

### Planning from above

There can be no closed rings in the wiring and the maximum distance between the gateway and the DALI unit is 300m





## Lytespan 3 Three Circuit Track System – Standard Track Kits

### Starter Track Kit

- Ideal for surface mounted runs
- Single length or to start a run
- Supplied with Track Unit, Push-up Live Feed, End Caps and Surface Mount Clips

### Joiner Track Kit

- Ideal for surface mounted runs
- Extends Starter Track to create straight runs
- Supplied with Track Unit, Plug-in Live Coupler and Surface Mount Clips



#### STARTER TRACK KIT

Length	White	Weight
2m	2030733	1.85kg
3m	2030734	2.75kg
4m	2030735	3.60kg

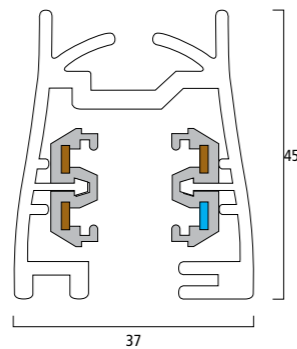


#### JOINER TRACK KIT

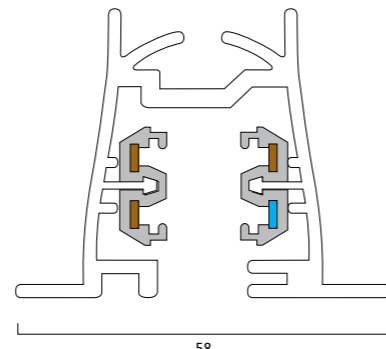
Length	White	Weight
3m	2030736	2.90kg



See page 74 for emergency lighting solutions for track mounting, page 75 for suspensions.

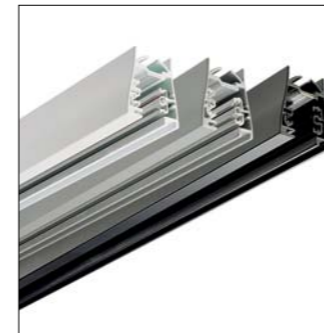


Standard



Recessed

## Lytespan 3 Three Circuit/DALI Track System – Track Units



#### 1. STANDARD TRACK UNIT

Length	White	Silver	Black	Weight
1m	2020760	2020761	2025500	0.90kg
2m	2020762	2020763	2025501	1.80kg
3m	2020751	2020759	2025502	2.70kg
4m	2020787	2020788	2025503	3.60kg

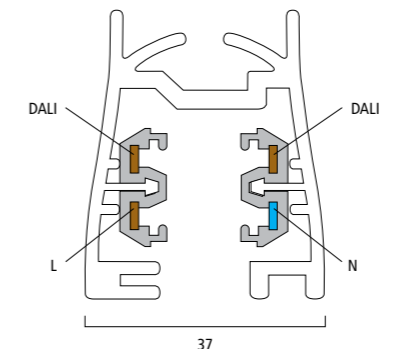


#### 1. RECESSED TRACK UNIT

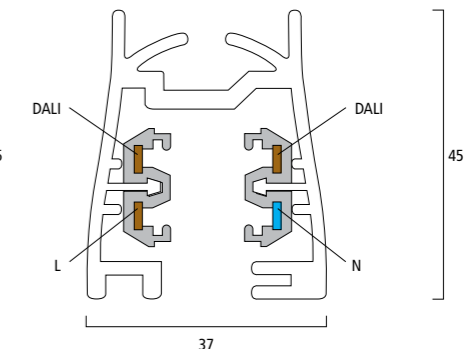
Length	White	Weight
2m	2020718	1.95kg
3m	2020719	2.85kg
4m	2020720	3.75kg

#### Basic components required for a track scheme:

- 1 Track Unit
- 2 Live Feed: Feeds power onto track
- 3 Coupler: Only required if creating runs
- 4 End Cap: Safely terminates track ends
- 5 Suspensions: Safely and securely mounts track **Optional Accessories**



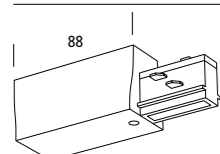
Standard



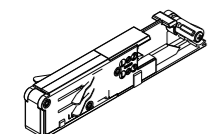
Recessed

## Lytespan 3 Three Circuit/DALI Track System – Components

### Lytespan 3 Three Circuit Track System – Components



Plug-in Live Feed



Push-up Live Feed

#### 2. LIVE FEEDS

	Type	White	Silver	Black
Push-Up Live Feed	Right	2027549	2027547	2027551
Push-Up Live Feed	Left	2027546	2027550	2027548
Plug-In Live Feed	Universal	2020790	2021318	2025507

#### 2. DALI LIVE FEEDS

	Type	White	Silver	Black
Push-Up Live Feed	Right	2051485	2051486	2051487
Push-Up Live Feed	Left	2051488	2051489	2051490

#### 3. COUPLERS

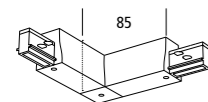
			Recessed Track	White	Silver	Black
Straight Plug-In Coupler	Mech/Elec	2020797			2027542	2025508
L Coupler*	Inside			2020792	2021315	2025511
L Coupler*	Outside			2020793	2021314	2025512
T Coupler*	Left			2020795	2021313	2025514
T Coupler*	Right			2020796	2021312	2025513
X Coupler*	Universal			2020794	2021311	2025515
Flexible Coupler	Mech/Elec			2020798	2021310	2025516

Wires can be removed to create mechanical only connections. Once wires are removed couplers can be used to feed power on/off of track

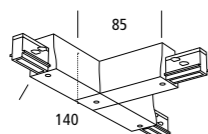
#### 3. DALI COUPLERS

	Type	Recessed Track	White	Silver	Black
Straight Plug-In Coupler	Mech/Elec	2020797		2027542	2025508
L Coupler*	Inside		2051497	2051498	2051499
L Coupler*	Outside		2051500	2051501	2051502
T Coupler*	Left		2051494	2051495	2051496
T Coupler*	Right		2051491	2051492	2051493
X Coupler	Universal		2051503	2051504	2051505
Flexible Coupler	Mech/Elec		2051506	2051507	2051508

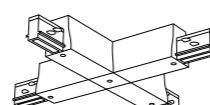
Wires can be removed to create mechanical only connections. Once wires are removed couplers can be used to feed power on/off of track



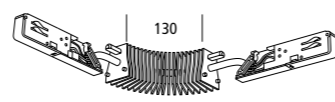
L Coupler



T Coupler



X Coupler



Flexible Coupler

#### 4. END CAP

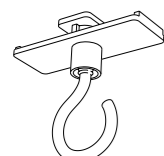
Description	White	Silver	Black
End Cap	2020789	2021317	2025517



End Cap

#### 5. ACCESSORIES

Description	Weight	White	Silver	Black
Display Hook	Max load 5.00kg	2025697	–	–



Display Hook

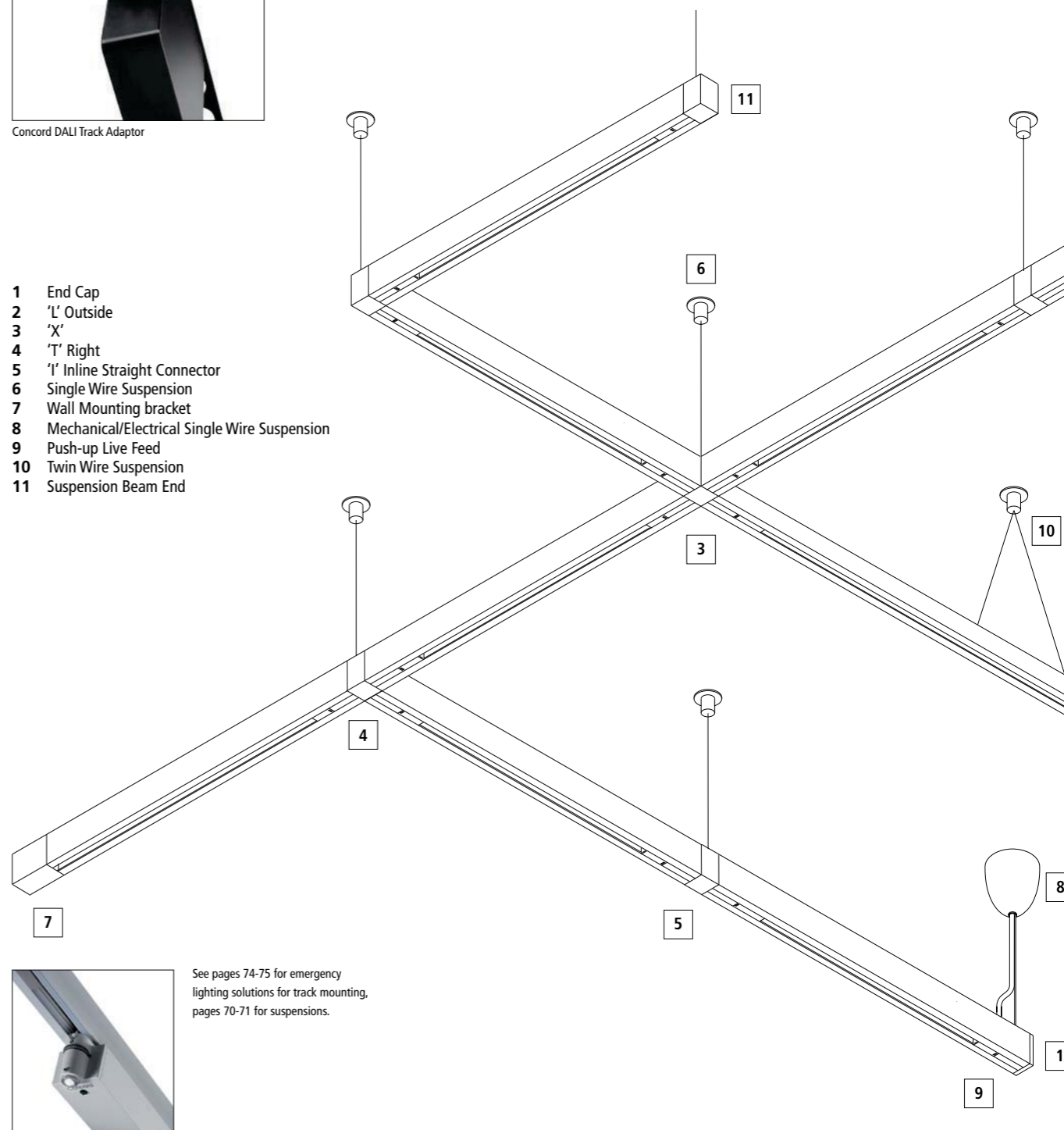
## Lytebeam Three Circuit/DALI Indirect Track System

- Architectural three circuit DALI deep beam section
- Indirect ambient lighting using T5 batten accessory
- Indirect accent lighting using L3 Track assembly
- Wide selection of suspension options, wires, rods and wall brackets
- Rear beam section may be used to carry other electrical services
- Wall brackets allow for wall to wall installation, maximum spacing 4m
- Individual section, continuous runs and complex grids
- LED Emergency modules – see pages 74-75



Concord DALI Track Adaptor

- 1 End Cap
- 2 'L' Outside
- 3 'X'
- 4 'T' Right
- 5 'I' Inline Straight Connector
- 6 Single Wire Suspension
- 7 Wall Mounting bracket
- 8 Mechanical/Electrical Single Wire Suspension
- 9 Push-up Live Feed
- 10 Twin Wire Suspension
- 11 Suspension Beam End



See pages 74-75 for emergency lighting solutions for track mounting, pages 70-71 for suspensions.



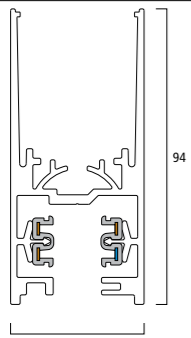
# Lytebeam Three Circuit/DALI Direct/Indirect Track System

# Lytebeam Three Circuit/DALI Direct/Indirect Track System – Components

### Basic components required for a track scheme:


1. Track Unit
- 1a. Indirect L3 track module
- 1b. Indirect T5 batten module
2. Live Feed: Feeds power onto track
3. Coupler: Only required if creating runs
4. End Cap: Safely terminates track ends
5. Suspensions: Safely and securely mounts track
6. Optional Accessories

### Lytebeam

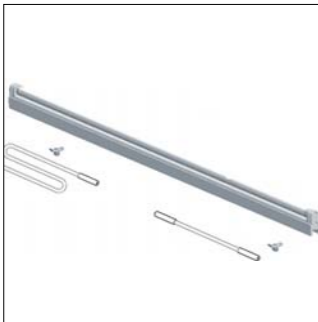


**1. STANDARD LYTEBEAM UNIT**

Length	White	Silver	Weight
2m	2037837	2037841	5.00kg
3m	2037838	2037842	7.50kg
4m	2037840	2037843	10.00kg



1. Empty Back Channel for Cable Way




**1A. INDIRECT L3 TRACK MODULE**

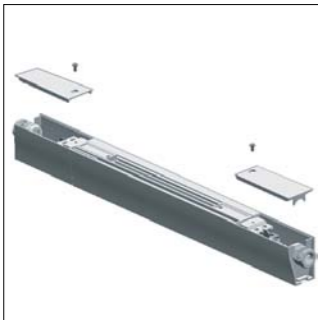
Length	White
1.180m	2037845

**1A. INDIRECT DALI TRACK MODULE**

Length	White
1.180m	2051536



1a. L3 Track for Indirect Accent

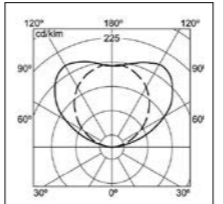


**1B. INDIRECT T5 BATTEN MODULE**


Length	Lamp
1.186m	28W T5 <b>9137867</b>

**1B. INDIRECT T5 DALI BATTEN MODULE**

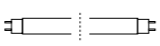
Length	Lamp
1.186m	28/54W T5 <b>2051538</b>



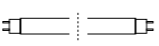
DLOR = 0.62



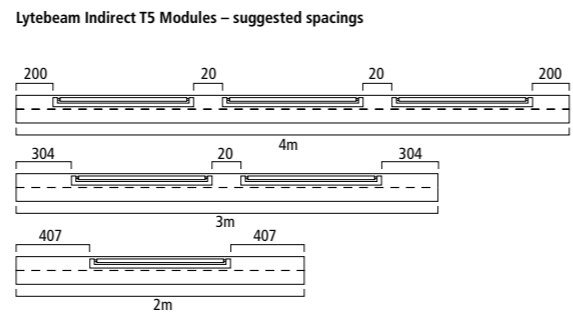
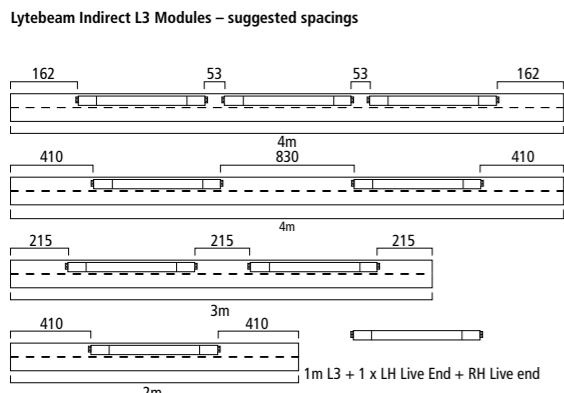
1b T5 Fluorescent Modules for Indirect Ambient

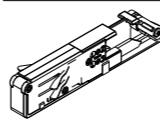


T5 Luxline FHE T16  
28W = 2640 lm



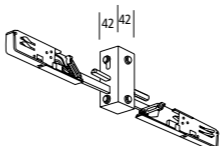
T5 Luxline FHO T16 G5  
54W = 4450 lm





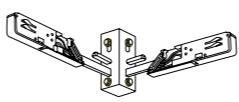
Push-up Live Feed

		White	Silver
Push-Up Live Feed	Feeds power on or off anywhere along length of track		
	Left	2027546	2027547
	Right	2027549	2027550



I – Straight Coupler

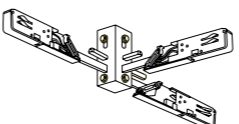
	White	Silver	Black	
Push-Up Live Feed	Feeds power on or off anywhere along length of track			
	Left	2051488	2051489	2051490
	Right	2051485	2051486	2051487



L – Coupler Inside/outside (converts)

	White	Silver	
I Straight Coupler	Connects tracks to create straight runs	Mech/Elec	2037853 2037858
L Coupler	Polarised couplers supplied pre-wired for ease of installation*	Inside/Outside	2037854 2037860
T Coupler	Polarised couplers supplied pre-wired for ease of installation*	Left	2037855 2037861
		Right	2037856 2037862
X Coupler	Polarised couplers supplied pre-wired for ease of installation*	Universal	2037857 2037863
Flexible Coupler	Closes to a minimum of 60° horizontally	Mech/Elec	2037864 2037865

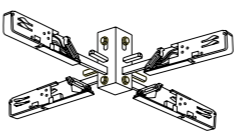
Wires can be removed to create mechanical only connections. Once wires are removed couplers can be used to feed power on/off of track



T – Left Hand and Right Hand

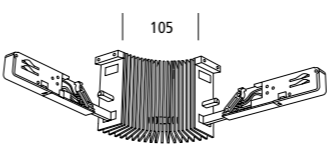
	White	Silver	Black
I Straight Coupler	Connects tracks to create straight runs	Mech/Elec	2051521 2051522 2051523
L Coupler	Polarised couplers supplied pre-wired for ease of installation*	Inside/Outside	2051527 2051528 2051529
T Coupler	Polarised couplers supplied pre-wired for ease of installation*	Left	2051524 2051525 2051526
X Coupler	Polarised couplers supplied pre-wired for ease of installation*	Universal	2051530 2051531 2051532
Flexible Coupler	Closes to a minimum of 60° horizontally	Mech/Elec	2051533 2051534 2051535

Wires can be removed to create mechanical only connections. Once wires are removed couplers can be used to feed power on/off of track



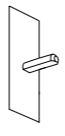
X – Universal

	White	Silver
End Cap	Must be used to safely terminate track ends	2037848 2037850
Beam End	Must be used to safely terminate track ends and provides suspension points	2037851 2037852

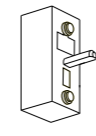


Flexible Coupler – Universal

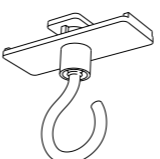
	White	
Display Hook	Suspends signs, cords etc. Max load 5.00kg	2025697



End Cap



Beam End



Display Hook

# Universal Suspensions Single & Three Circuit Track System

- Rod and Floating suspensions provide rigid fixing up to 1m straight down from ceiling. Required for uneven loads or areas exposed to air movement
- Adjustable 3m wire suspensions provide the flexibility to fix from any angle, ideal for sloping ceilings
- Clutch adjustment mechanism allows quick and easy installation and levelling.
- Twin pivoting suspensions ideal for grids and corners
- Wall mounting brackets for wall to wall installations (Lytebeam only)



Wire suspensions - chrome.



Rod suspensions - white.



Single/three circuit - white.

## WIRE SUSPENSIONS

		Length	Max Load	Mech only Chrome	Mech only White	Silver Circuit Elec/ Mech White	Three Circuit Elec/Mech White
Single Wire Suspension	Length easily adjusted	3.00m	20.00kg	<b>2035031</b>	-	<b>2035014</b>	<b>2035015</b>
Twin Wire Suspension	Length easily adjusted	3.00m	20.00kg	<b>2035016</b>	-	<b>2035017</b>	<b>2035018</b>

## ROD SUSPENSIONS

		Length	Max Load	Mech only Chrome	Mech only White	Silver Circuit Elec/ Mech White	Three Circuit Elec/Mech White
Rod Suspension	Can be cut on site from ceiling side only	0.50m	-	-	<b>2035020</b>	<b>2035021</b>	<b>2035022</b>
	+/- 5mm levelling adjustment	1.00m	25.00kg	-	<b>2035023</b>	<b>2035024</b>	<b>2035025</b>
Rod Extension	Screws onto Mechanical only rod suspensions. Can not be cut on site. Max drop 3.00m	0.50m	25.00kg	-	<b>2035026</b>	-	-
	+/- 5mm levelling adjustment						
Floating Suspension	+/- 5mm levelling adjustment	0.07m	25.00kg	-	<b>2035027</b>	-	-

## RECESSED MOUNTING

		Length	Load	Steel
Suspension Bracket	For fixing recessed track into suspended ceilings	-	25.00kg	<b>2010997</b>

## SURFACE MOUNTING

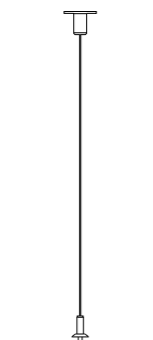
		Length	Load	White	Black
Mount Clip	Clip screw onto fixing surface. Track snaps onto back, secured with allen key supplied	0.14m	15.00kg	<b>2011999</b>	<b>2011841</b>

## WALL MOUNTING BRACKET

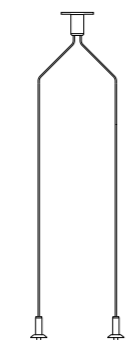
		Length	Load	White	Black
Wall Mount Bracket		-	20.00kg	<b>2037846</b>	<b>2037847</b>

\* Length refers to distance from mounting surface to back of track onto back, secured with allen key supplied

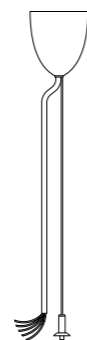
Max spacing for all Single Circuit and Three Circuit Track systems 1.2m  
Max spacing for Lytebeam 4m



Single Wire Suspension (Mech only)



Twin Wire Suspension (Mech Only)



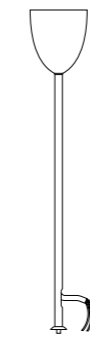
Single Wire Suspension (Mech/Elec)



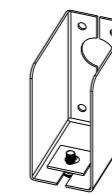
Twin Wire Suspension (Mech/Elec)



Rod Extension (Mech only)



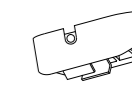
Rod Suspension (Mech/Elec)



Wall Mounting Bracket (Lytebeam only)



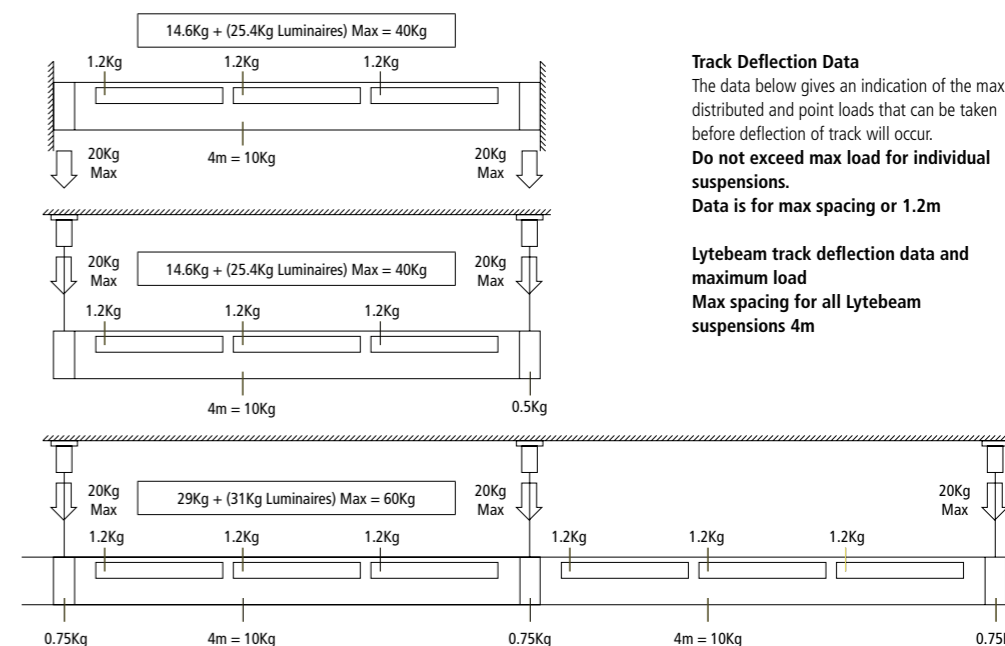
(Not Lytebeam)



Mount Clip (Not Lytebeam)

## TRACK DEFLECTION DATA

Length	Lamp	
Other Track Systems – Max spacing is 1.2m	Maximum Allowable Load	
Track System	Distributed	Point
Lytespan 3	32.00kg	20.00kg
Recessed Lytespan 3	46.00kg	28.50kg



**Track Deflection Data**  
The data below gives an indication of the max distributed and point loads that can be taken before deflection of track will occur.  
**Do not exceed max load for individual suspensions.**  
Data is for max spacing or 1.2m

**Lytebeam track deflection data and maximum load**  
Max spacing for all Lytebeam suspensions 4m

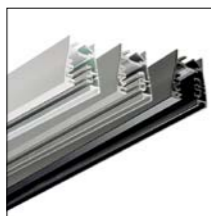
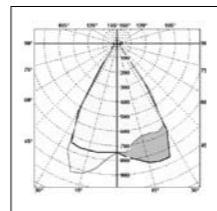
## Lytespan 3 LED Emergency

- Three circuit LED 3 hour non-maintained emergency module
- Can avoid requirement for additional emergency solution
- Module can be installed anywhere along a Lytespan 3 track installation
- Module easily fits into track with double ended track fixings – feed connection discretely hidden behind module
- **Unique to Concord L3 track (not for use on other track systems)**

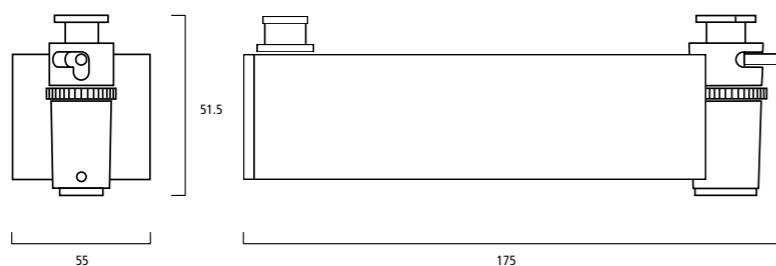


### EMERGENCY MODULE – FOR THREE CIRCUIT TRACK

Length	White	Silver	
Emergency Track Module	2038962	2038963	1.13kg



Module fits into track with double ended adaptor



#### Construction

Die cast aluminium

#### Mounting

Track: Metal track fixings, Polycarbonate live feed

#### Control Gear

3 hour non-maintained emergency Integral electronic gear

#### Battery

Three cell Ni-Cd/NiMH Battery 3.6V

#### Finish

Powder coated, white RAL 9016, silver RAL 9006

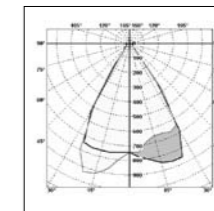
## Lytebeam LED Emergency

- Lytebeam LED 3 hour non-maintained emergency kit
- Kit can be installed anywhere along a Lytebeam track installation
- LED Housings easily clip into front of Lytebeam by drilling 2x12mm holes
- Gear fits into rear channel and connected to LED's via terminal block
- Rear safety cover plate conceals gear tray and internal wiring



### EMERGENCY KIT - FOR LYTEBEAMTRACK

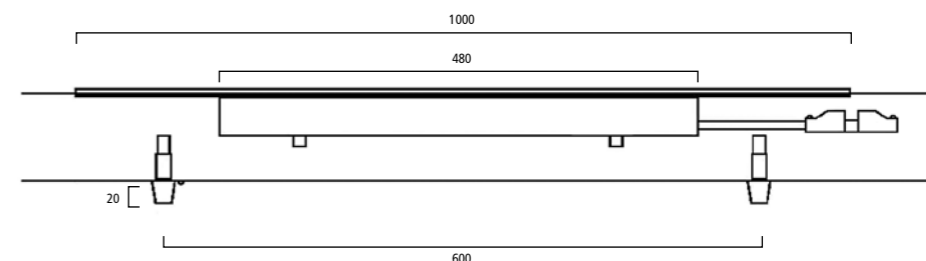
Length		
Lytebeam Emergency Kit	2038312	0.75kg



2038312



Inverter pack and driver housed in the back of Lytebeam track sections. Discrete LED housings with green charge indicator in normal and emergency mode.



#### Construction

Aluminium and steel

#### Control Gear

3 hour non-maintained emergency

Inverter and Batteries

#### Battery

Three cell Ni-Cd/NiMH Battery 3.6V

#### Finish

Anodised LED Housings and rear cover



# Emergency Lighting

## RouteLED Standard



- Miniature ceiling recessed non maintained 3hr emergency 3W
- Accent LED downlight with green charge indicator
- Stand alone unit complete with inverter module and Nickel Metal Hydride battery pack
- Inverter and battery pack pass through the luminaire cut out
- Quick and easy installation with simple plug and socket connections



**ROUTELED STANDARD**

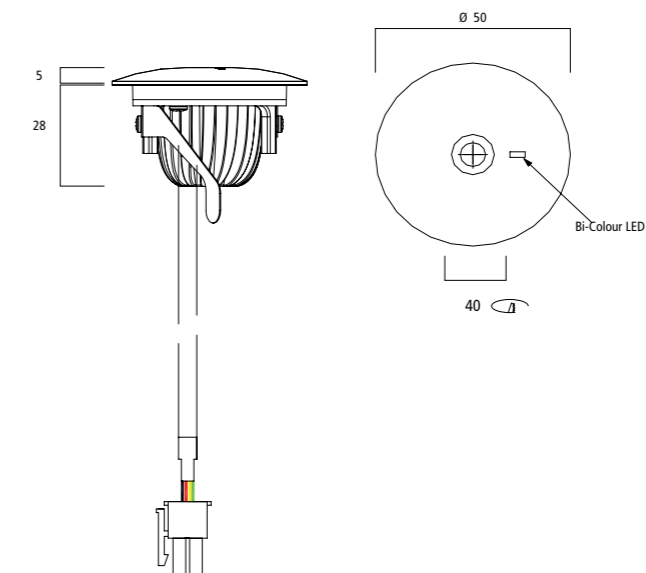
Description	Code	Weight	Colour
RouteLED 3W Emg	9192132	0.58kg	White
RouteLED 3W Emg	9192133	0.58kg	Silver

Input Voltage	4V DC Max
Power Rating	700mA
Light Source	Edison EDEW Series
Beam Angle	110°
Cut Out	Ø 40mm
Light Source Colour	Cool White
Colour Temperature	6000K
Luminaire Output	155 Lumens
General CRI	71.5
Tc Max	80°C LED Backplate
Wiring Method	Series connection via C201 Series Plug
Dimensions	Ø 50mm x 53mm

**SPACING TABLE**

Mounting Height	To Wall		Between Fittings	
	0.5	1.0	0.5	1.0
2.5	4.1	3.3	9.5	8.1
3.0	4.5	3.5	10.6	8.8
4.0	4.9	3.5	12.1	9.6
5.0	5.0	3.1	13.1	9.8
6.0	4.9	2.3	13.8	9.6
8.0	3.7	-	13.8	6.3



## RouteLED Open Area

- Miniature ceiling recessed non maintained 3hr emergency 3W
- Accent LED downlight with green charge indicator
- Stand alone unit complete with inverter module and Nickel Metal Hydride battery pack
- Inverter and battery pack pass through the luminaire cut out
- Quick and easy installation with simple plug and socket connections



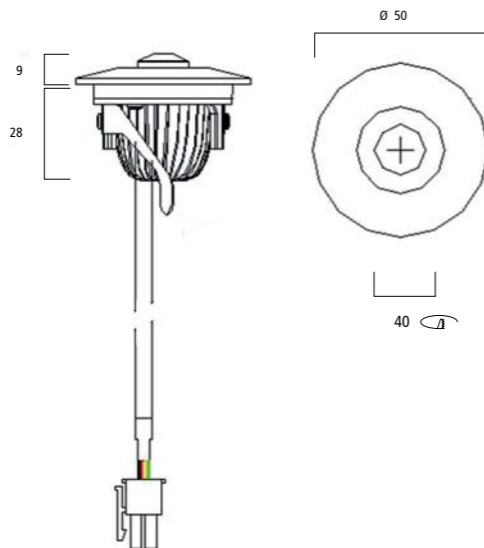
### ROUTELED OPEN AREA

Description	Code	Weight	Colour
RouteLED 3W Emg Open Area DALI Addressable	9154043	0.61kg	White
RouteLED 3W Emg Open Area	9192134	0.61kg	White
RouteLED 3W Emg Open Area	9192135	0.61kg	Silver

Input Voltage	4V DC Max
Power Rating	700mA
Light Source	Edison EDEW Series
Beam Angle	110°
Cut Out	Ø 40mm
Light Source Colour	Cool White
Colour Temperature	6000K
Luminaire Output	160 Lumens
General CRI	72.2
Tc Max	80°C LED Backplate
Wiring Method	Series connection via C201 Series Plug
Dimensions	Ø 50mm x 60mm

### SPACING TABLE

Mounting	To Wall		Between Fittings	
	0.5	1.0	0.5	1.0
Height				
2.5	3.8	3.5	8.1	7.5
3.0	4.4	3.9	9.3	8.6
4.0	5.3	4.5	11.6	10.5
5.0	6.1	3.6	13.7	11.8
6.0	6.2	-	15.5	8.3



## RouteLED Corridor

- Miniature ceiling recessed non maintained 3hr emergency 3W
- Accent LED downlight with green charge indicator
- Stand alone unit complete with inverter module and Nickel Metal Hydride battery pack
- Inverter and battery pack pass through the luminaire cut out
- Quick and easy installation with simple plug and socket connections



### ROUTELED CORRIDOR

Description	Code	Weight	Colour
RouteLED 3W Emg Corridor Lens DALI Addressable	9154044	0.61kg	White
RouteLED 3W Emg Corridor	9192136	0.61kg	White
RouteLED 3W Emg Corridor	9192137	0.61kg	Silver

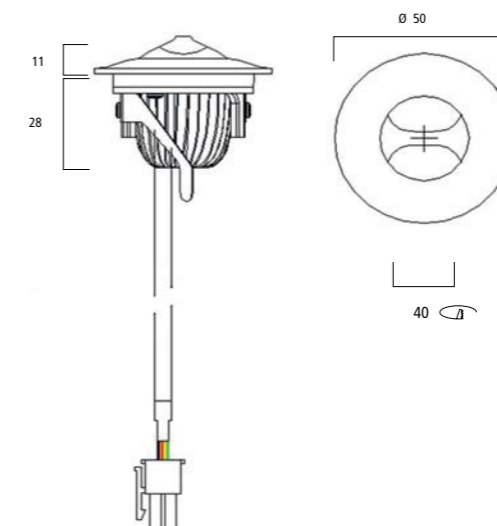
Input Voltage	4V DC Max
Power Rating	700mA
Light Source	Edison EDEW Series
Beam Angle	110°
Cut Out	Ø 40mm
Light Source Colour	Cool White
Colour Temperature	6500K
Luminaire Output	157 Lumens
General CRI	72.9
Tc Max	80°C LED Backplate
Wiring Method	Series connection via C201 Series Plug
Dimensions	Ø 50mm x 60mm

### SPACING TABLE – ALONG CORRIDOR (LENGTH)

Mounting	To Wall		Between Fittings	
	0.5	1.0	0.5	1.0
Height				
2.5	5.0	4.4	11.5	9.9
3.0	5.6	4.9	12.7	11.1
4.0	6.7	5.4	15.2	13.3
5.0	7.5	4.1	17.5	14.1
6.0	7.1	2.9	19.4	14.0
8.0	4.7	-	20.0	9.2

### SPACING TABLE – ALONG CORRIDOR (WIDTH)

Mounting	To Wall		Between Fittings	
	0.5	1.0	0.5	1.0
Height				
2.5	2.2	1.8	6.5	4.3
3.0	2.3	1.9	6.6	4.5
4.0	2.7	1.9	6.2	5.2
5.0	2.8	1.9	6.9	5.4
6.0	2.7	1.4	7.5	5.2
8.0	2.3	-	7.5	3.6



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Code	Page No	Code	Page No	Code	Page No	Code	Page No	Code	Page No	Code	Page No	Code	Page No	Code	Page No	Code	Page No	Code	Page No								
0041546	100	2020796	120	2037842	122	2048694	51	2049498	66	2049594	40	2051052	56	2051523	123	2052627	19	2052710	26	2052804	72	2052884	31	2052970	51	2053590	30
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