

LED | **PANELS**

LED | **LINEAR LIGHTS**

LED | **ROUND LIGHTS**

LED | **SPOTLIGHTS**

LED | **DOWNLIGHTS**

LED | **HIGH BAYS**

LED | **BULKHEADS**

LED | **NON-CORROSIVES**

LED | **FLOODLIGHTS**

LED | **STREET LIGHTS**

LED | **EMERGENCY LIGHTS**

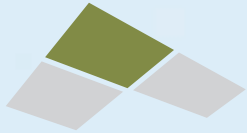
LED | **FIXTURES & ACCESSORIES**

we make light, we make sense.



LightSense[®]

01206 890248 ledlightsense.co.uk



LightSense®

THE COMPANY

LightSense specialises in the development and supply of high performance, advanced LED lighting. Our aim is to provide our customers with innovative and cost efficient LED lighting solutions that are tailored to their individual requirements.

Our Research and Development Department maintains its position at the forefront of this exciting technology so that our customers benefit from the latest innovations. Rigorous testing ensures that high standards of quality and safety are achieved, and our products carry a 5 year warranty for complete peace of mind.

Accredited to ISO9001, LightSense prides itself on offering very high standards of customer care. The Company provides a flexible and personal service, including lighting design, technical support and a free cost-saving analysis, to ensure that every client achieves the maximum benefit possible by switching to LED products.





USEFUL INFORMATION

CHARACTERISTICS OF THE LIGHT SOURCE

00,000 hours Hours to 70% of original lumen output based upon Lm_{90} data

0000 lm Lumen output of luminaire

00 watts Combined wattage of luminaire and driver















00 lm/w **Efficacy:** The total Lumen output divided by the combined wattage of luminaire and driver

>0 CRI **Colour Rendering Index:** The fidelity of the colour of objects in lamp light compared with an ideal or natural source

PF 0.00 **Power Factor:** The ratio of useful power used to supply power required

EM OPT **Emergency Option:** Available as either a separate unit or as a conversion

APPLICATIONS

-  Home/Domestic Use
-  Restaurants, Cafes and Fast Food Outlets
-  Supermarkets and Shopping Centres
-  Garages and Car Parks
-  Offices
-  Warehouses and Loading Bays
-  Schools and Education
-  Gyms and Indoor Sports Halls
-  Entertainment and Social Areas
-  Hospitals and Medical Use
-  Banks, Museums and Institutions
-  Factories and Industrial Buildings
-  Exterior Areas
-  Swimming Pool Halls and Shower Rooms

INGRESS PROTECTION

IP rating is defined in EN 60 529; it describes the resistance of a product to entry of both solids and liquids. The first number relating to solids is described by Table A whereas the second number regarding liquids is described by Table B.

A 1ST IP RATING DIGIT (SOLID)

- | | |
|---|---------------|
| 0 | None |
| 1 | Objects >50mm |
| 2 | >12.5mm |
| 3 | >2.5mm |
| 4 | >1mm |
| 5 | Limited Dust |
| 6 | Complete |

B 2ND IP RATING DIGIT (LIQUID)

- | | |
|---|-------------------------|
| 0 | None |
| 1 | Dripping water vertical |
| 2 | Dripping water <15o |
| 3 | Spraying water <60o |
| 4 | Any splashing |
| 5 | Low pressure stream |
| 6 | Water jets |
| 7 | Short immersion <1m |
| 8 | Prolonged immersion |

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PANELS

LLS-P0606



600 x 600 Panel



Applications



Characteristics of the light source

30,000 hours	2730 lm	32 watts	85 lm/w	>80 CRI	PF 0.95	EM OPT
--------------	---------	----------	---------	---------	---------	--------

Description

Our LightSense panel series features the latest edge lit LED technology. The panel lights are suitable for both commercial and domestic applications, and are designed to fit directly into existing standard suspended ceilings and recesses, or can be surface mounted to ceilings and walls.

Photometry

Height (m)	120°	Lux
1	3.3m	910
2	6.5m	230
3	9.7m	100
4	13m	57
5	16m	36
6	19m	25

Fixing system:

- Suspension Kit (LLS-SKIT)
- Mounting Frame Metal, Wooden (For options see page 55)

Dimming:

- 1-10V (as standard)
- DALI
- DSI

Emergency:

- 3 Hour Backup
- Maintained

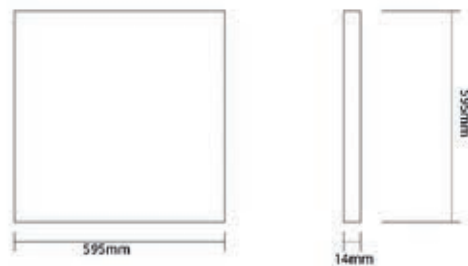
Colour Temperature

Day White	Cool White
4000K	6000K
A more natural light	Light with a more energising feel

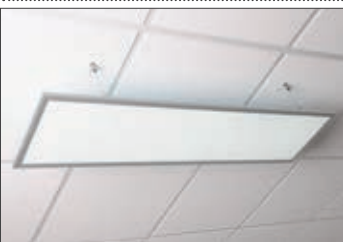
Type

Product Code	Description
LLS-P0606-DW	Day White
LLS-P0606-CW	Cool White

Dimensions



Suspension Kit

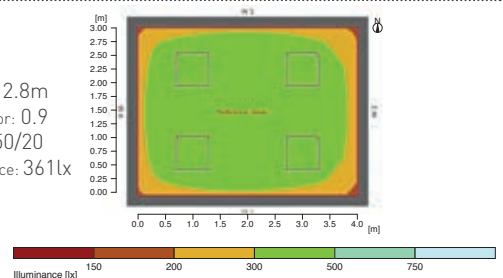


Mounting Frame



Performance

Panels: 4x32w
 Luminaire Height: 2.8m
 Maintenance Factor: 0.9
 Reflectance: 70/50/20
 Average Illuminance: 361lx



We'll leave it to the experts
to tell you what they think of our lights!

This particular product manages to deliver a high quality of light without sacrificing performance in the process. This is surprisingly good – about 1.5 times that of a comparable T5-based luminaire.

This luminaire achieves a high efficacy with a neutral white LED and, added to, this the colour rendering index of 81 percent make the LightSense panel a logical solution for anybody looking to install a luminous ceiling.



Dr Gareth John

Technical Director, Photometric and Optical Testing Services LLP tests an LED panel that has been designed to replace its fluorescent ceiling counterparts in offices and other commercial applications.

Going under the microscope are its lumen output and its unified glare rating.

To read the full article visit.

www.ledlightsense.co.uk/wp-content/uploads/Photometry-Focus.pdf

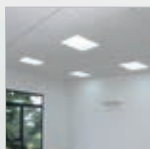
Ambient



Street



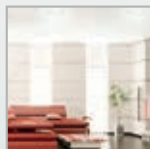
Ceiling



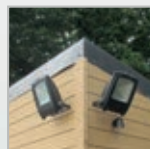
Commercial



Domestic



Exterior



we make light, we make sense.


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LLS-P0612

600 x 1200 Panel



Applications



Characteristics of the light source

30,000 hours	5400 lm	61 watts	84 lm/w	>80 CRI	PF 0.97	EM OPT
--------------	---------	----------	---------	---------	---------	--------

Description

Our LightSense panel series features the latest edge lit LED technology. The panel lights are suitable for both commercial and domestic applications, and are designed to fit directly into existing standard suspended ceilings and recesses, or can be surface mounted to ceilings and walls. At double the surface area of the standard panel, the 600x1200 panel has twice the lumen output but still maintains a high level of uniformity.

Photometry

Height [m]	110°	Lux
1	2.8m	1900
2	5.5m	470
3	8.3m	210
4	11m	120
5	14m	76
6	17m	53

Fixing system:

- Suspension Kit [LLS-SKIT0612]
- Mounting Frame Metal, Wooden [For options see page 55]

Dimming:

- 1-10V (as standard)
- DALI
- DSI

Emergency:

- 3 Hour Backup
- Maintained

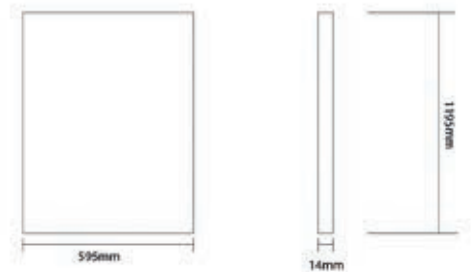
Colour Temperature

Day White	Cool White
4000K	6000K
A more natural light	Light with a more energising feel

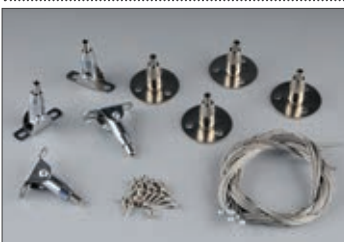
Type

Product Code	Description
LLS-P0612-DW	Day White
LLS-P0612-CW	Cool White

Dimensions



Suspension Kit

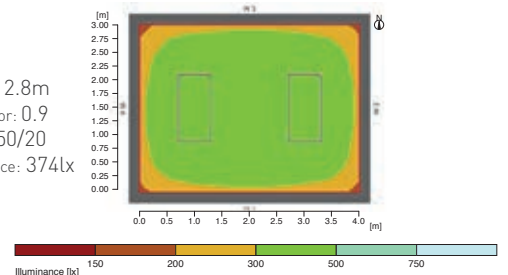


Mounting Frame



Performance

Panels: 2x72w
 Luminaire Height: 2.8m
 Maintenance Factor: 0.9
 Reflectance: 70/50/20
 Average Illuminance: 374lx



LLS-P0312



300 x 1200 Panel



Applications



Characteristics of the light source

30,000 hours	3700 lm	48 watts	79 lm/w	72 CRI	PF 0.94	EM OPT
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Description

Our LightSense panel series features the latest edge lit LED technology. The panel lights are suitable for both commercial and domestic applications, and are designed to fit directly into existing standard suspended ceilings and recesses, or can be surface mounted to ceilings and walls. The rectangular shape of this panel makes it ideal for corridors or other long narrow environments.

Fixing system:

- Suspension Kit (LLS-SKIT)
- Mounting Frame Metal, Wooden (For options see page 55)

Dimming:

- 1-10V (as standard)
- DALI
- DSI

Emergency:

- 3 Hour Backup
- Maintained

Photometry

Height (m)	Beam Angle	Lux
1	110°	1400
2	2.8m	340
3	5.6m	150
4	8.3m	86
5	11m	55
6	14m	38

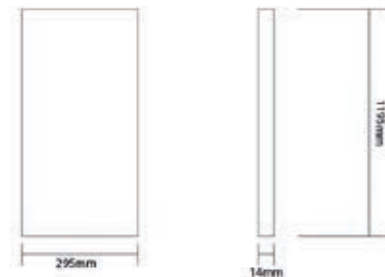
Colour Temperature

Day White	Cool White
4000K	6000K
A more natural light	Light with a more energising feel

Type

Product Code	Description
LLS-P0312-DW	Day White
LLS-P0312-CW	Cool White

Dimensions



Suspension Kit

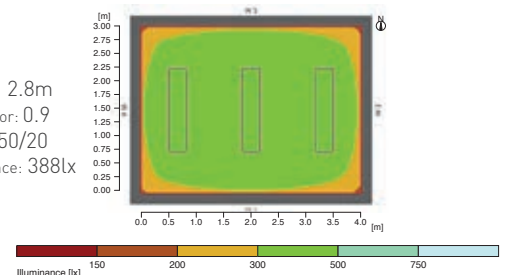


Mounting Frame



Performance

Panels: 3x48w
 Luminaire Height: 2.8m
 Maintenance Factor: 0.9
 Reflectance: 70/50/20
 Average Illuminance: 388lx



LLS-P01512



150 x 1200 Panel



Applications



Characteristics of the light source

30,000 hours	2300 lm	34 watts	68 lm/w	>80 CRI	PF 0.90	EM OPT
--------------	---------	----------	---------	---------	---------	--------

Description

Our LightSense panel series features the latest edge lit LED technology. The panel lights are suitable for both commercial and domestic applications, and are designed to fit directly into existing standard suspended ceilings and recesses, or can be surface mounted to ceilings and walls. The rectangular shape of this panel makes it ideal for corridors or other long narrow environments.

Photometry

Height (m)	110°	Lux
1	2.9m	820
2	5.8m	210
3	8.6m	91
4	11m	51
5	14m	33
6	17m	23

Type

Product Code	Description
LLS-P01512-DW	Day White
LLS-P01512-CW	Cool White

Fixing system:

- Suspension Kit (LLS-SKIT)
- Mounting Frame Metal, Wooden (For options see page 55)

Dimming:

- 1-10V (as standard)
- DALI
- DSI

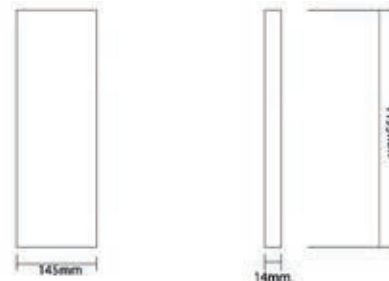
Emergency:

- 3 Hour Backup
- Maintained

Colour Temperature

Day White	Cool White
4000K	6000K
A more natural light	Light with a more energising feel

Dimensions



Suspension Kit

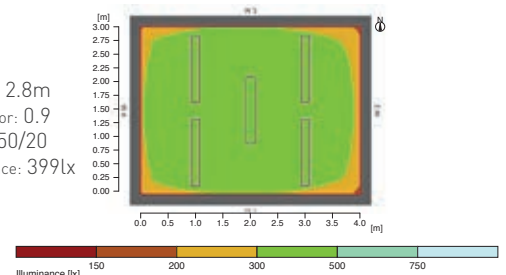


Mounting Frame

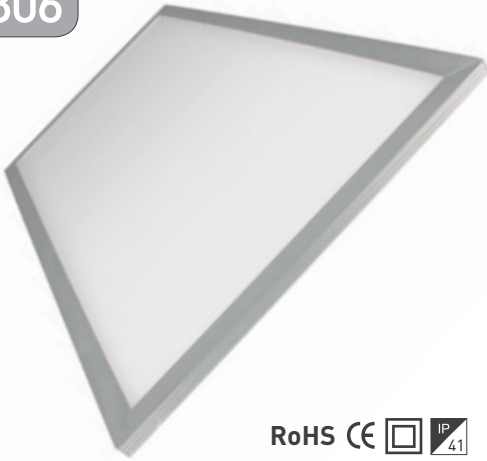


Performance

Panels: 5x36w
 Luminaire Height: 2.8m
 Maintenance Factor: 0.9
 Reflectance: 70/50/20
 Average Illuminance: 399lx



LLS-P0306



300 x 600 Panel



Applications



Characteristics of the light source

30,000 hours	2500 lm	32 watts	77 lm/w	>80 CRI	PF 0.95	EM OPT
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Description

Our LightSense panel series features the latest edge lit LED technology. The panel lights are suitable for both commercial and domestic applications, and are designed to fit directly into existing standard suspended ceilings and recesses, or can be surface mounted to ceilings and walls.

Fixing system:

- Suspension Kit (LLS-SKIT)
- Mounting Frame Metal, Wooden (For options see page 55)

Dimming:

- 1-10V (as standard)
- DALI
- DSI

Emergency:

- 3 Hour Backup
- Maintained

Photometry

Height (m)	107°	Lux
1	2.8m	930
2	5.6m	230
3	8.4m	100
4	11m	58
5	14m	37
6	17m	26

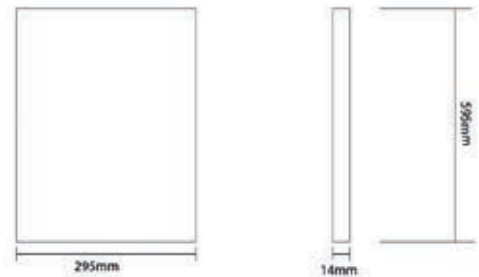
Colour Temperature

Day White	Cool White
4000K	6000K
A more natural light	Light with a more energising feel

Type

Product Code	Description
LLS-P0306-DW	Day White
LLS-P0306-CW	Cool White

Dimensions



Suspension Kit

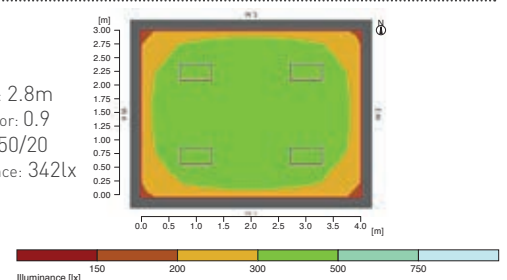


Mounting Frame

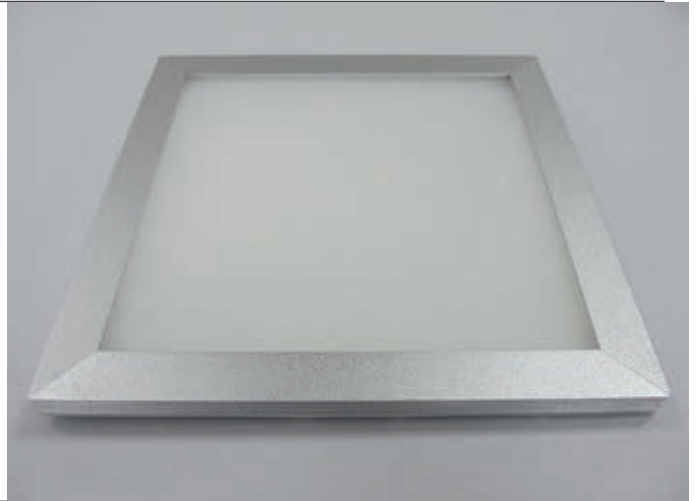


Performance

Panels: 4x32w
 Luminaire Height: 2.8m
 Maintenance Factor: 0.9
 Reflectance: 70/50/20
 Average Illuminance: 342lx



LLS-P0303



300 x 300 Panel

RoHS CE IP41

Applications



Characteristics of the light source

30,000 hours	1200 lm	17 watts	56 lm/w	>80 CRI	PF 0.87	EM OPT
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Description

Our LightSense panel series features the latest edge lit LED technology. The panel lights are suitable for both commercial and domestic applications, and are designed to fit directly into existing standard suspended ceilings and recesses, or can be surface mounted to ceilings and walls.

Fixing system:

- Suspension Kit (LLS-SKIT)
- Mounting Frame Metal, Wooden (For options see page 55)

Dimming:

- 1-10V (as standard)
- DALI
- DSI

Emergency:

- 3 Hour Backup
- Maintained

Photometry

Height (m)	110°	Lux
1	2.9m	420
2	5.8m	110
3	8.7m	47
4	12m	26
5	15m	17
6	17m	12

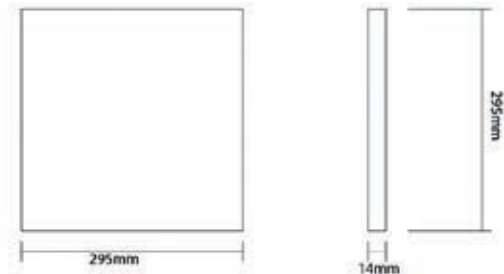
Colour Temperature

Day White	Cool White
4000K	6000K
A more natural light	Light with a more energising feel

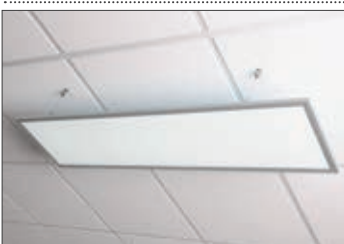
Type

Product Code	Description
LLS-P0303-DW	Day White
LLS-P0303-CW	Cool White

Dimensions



Suspension Kit

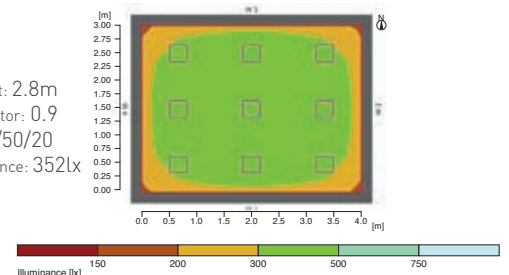


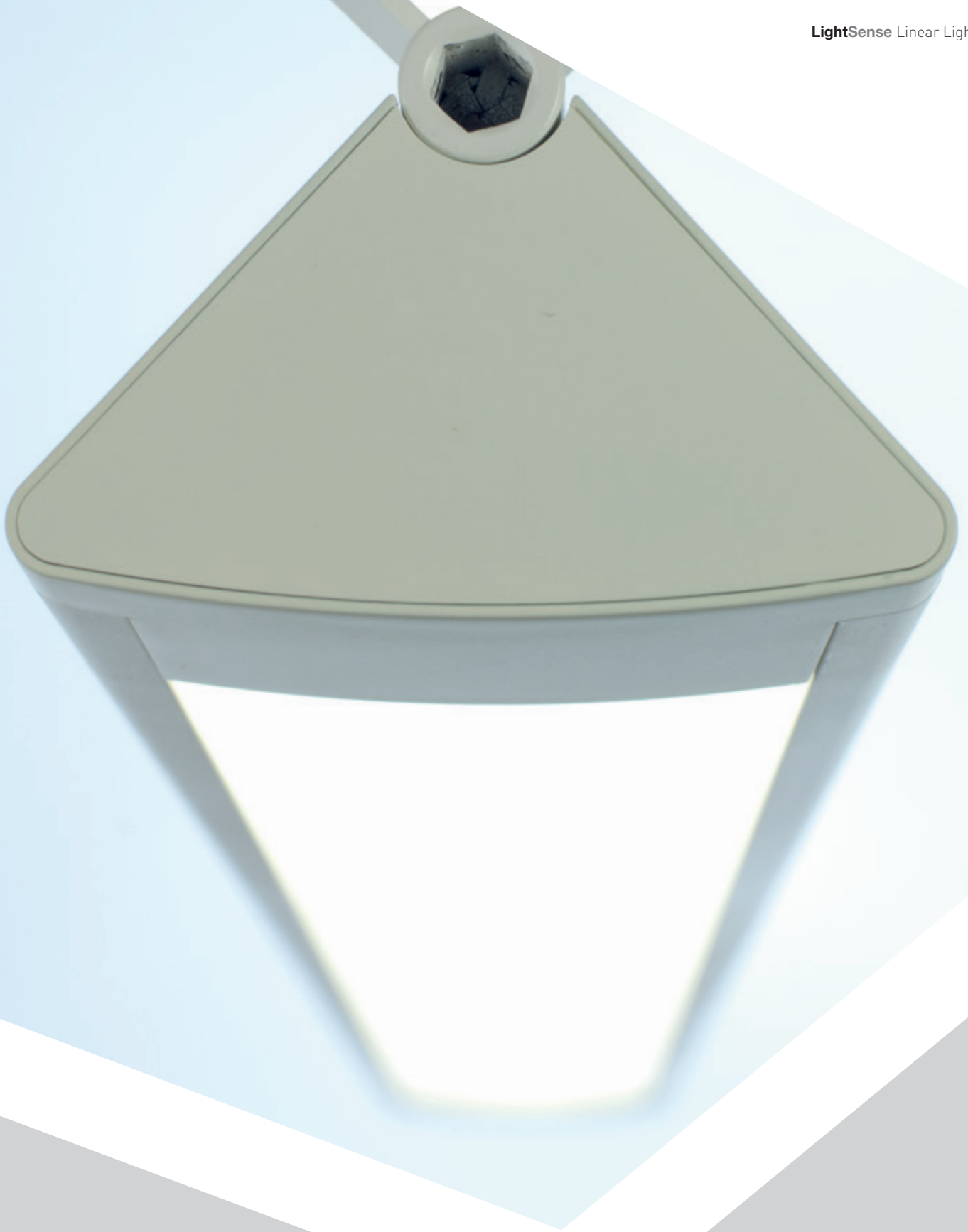
Mounting Frame



Performance

Panels: 9x17w
 Luminaire Height: 2.8m
 Maintenance Factor: 0.9
 Reflectance: 70/50/20
 Average Illuminance: 352lx





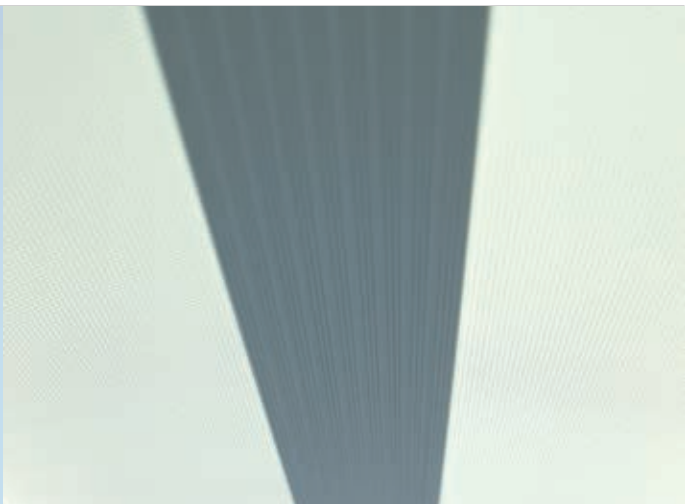
LINEAR LIGHTS

LLS-AS40



Alae Panel

RoHS CE



Applications



Characteristics of the light source

30,000 hours	3000 lm	40 watts	76 lm/w	>80 CRI	PF 0.91
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Description

The Alae LightSense panel features the latest edge lit LED technology. It is suitable for both commercial and domestic applications, and is designed to be suspended from ceilings. This panel is ideal for design and architectural purposes. Its wide beam angle of 160° means that despite being suspended, this panel it still offers a wide and uniform illumination.

Photometry

- On Request

Fixing system:

- Suspension Kit (Standard)

Dimming Option Available:

- Non-Dimming Standard
- Dimming Options made to order
- 1-10V
- DALI
- DSI

Emergency Made to order

- 3 Hour Backup
- Maintained

Diffuser options

Grid



Diamond



Colour Temperature

Day White

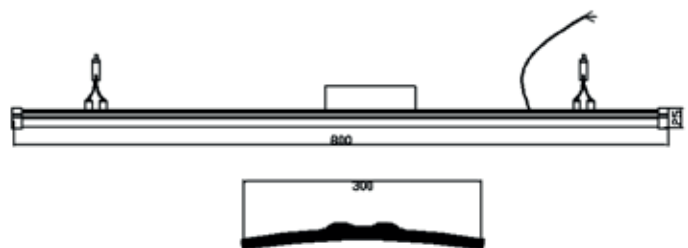
4000K

A more natural light

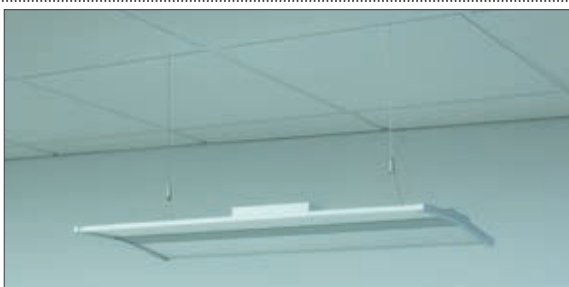
Type

Product Code	Description
LLS-AS40-G	Alae Panel – Grid Diffuser
LLS-AS40-D	Alae Panel – Diamond Diffuser
LLS-AS40D-G	Alae Panel – Grid Diffuser (Dimmable)
LLS-AS40D-D	Alae Panel – Diamond Diffuser (Dimmable)

Dimensions

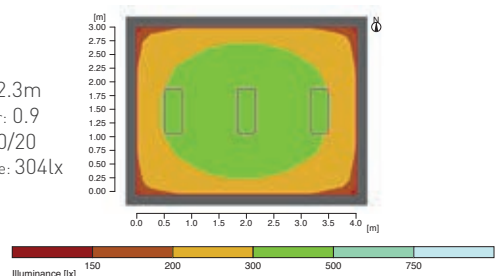


Suspension Kit



Performance

Panels: 3x40w
 Luminaire Height: 2.3m
 Maintenance Factor: 0.9
 Reflectance: 70/50/20
 Average Illuminance: 304lx



LLS-ELM-20W



ElmLux Linear Light



Applications



Characteristics of the light source

30,000 hours	1600 lm	20 watts	80 lm/w	>80 CRI	PF 0.95
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Description

The ElmLux is a linear fitting suitable for surface mounting or suspension from a ceiling. A central strip of LEDs provides a high quality, directional light and the compact nature and slim design of the fitting makes it a highly versatile luminaire. The ElmLux comes with an adjustable bracket on the back, an integrated driver and is pre-flexed for ease of installation.

Fixing system:

- Surface Mounted
- Suspension Kit

Alternative option:

- 15W Silver Surround
- 15W White Surround

Dimming Option Available:

- Non-Dimming Standard
- Dimming Options made to order
- 1-10V
- DALI
- DSI

Photometry

Height (m)	104.6°	Lux
1	2.6m	526
2	5.2m	132
3	7.8m	59
4	10m	33
5	12.9m	21
6	15.5m	15

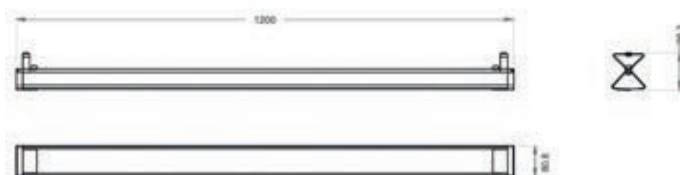
Colour Temperature

Day White	Cool White
4000K	6000K
A more natural light	Light with a more energising feel

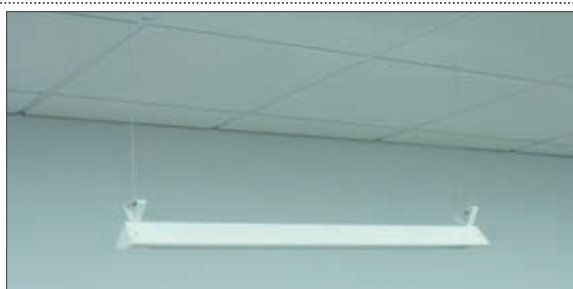
Type

Product Code	Description
LLS-ELMS-20W-DW	Silver Surround Day White
LLS-ELMS-20W-CW	Silver Surround Cool White
LLS-ELMW-20W-DW	White Surround Day White
LLS-ELMW-20W-CW	White Surround Cool White

Dimensions

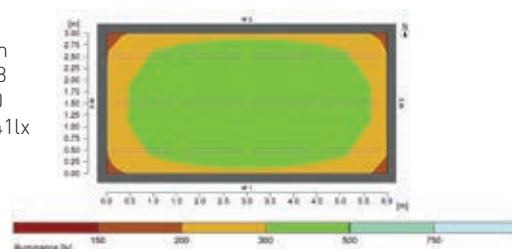


Suspension Kit



Performance

Luminaire Height: 3.0m
 Maintenance Factor: 0.8
 Reflectance: 70/50/20
 Average Illuminance: 341lx





LLS-BTN

Batten

RoHS CE IP40

Applications



Characteristics of the light source

30,000 hours	4,639 lm	52 watts	88.8 lm/w	>80 CRI	PF 0.98
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Above data accurate for the 52W luminaire, data for alternative wattages available on request

Description

The Batten is a linear fitting designed to be a replacement for the popular style linear fluorescent fittings. A central strip of LEDs provides a high quality light output suitable for domestic and commercial applications. The Batten is suitable for surface mounting or suspension from a ceiling and has been designed to fit existing hole spacings and comes with an integrated driver for ease of installation.

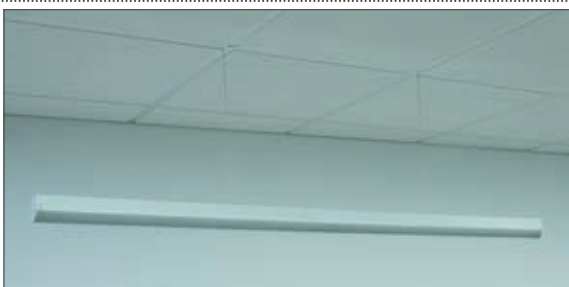
Photometry

Height (m)	110°	Lux
1	2.9m	1,352
2	5.7m	338
3	8.6m	150
4	11.4m	85
5	14.3m	54
6	17.1m	38

Type

Product Code	Description
LLS-BTN4-38W-WW	4ft 38W Batten Pack – Warm White
LLS-BTN4-38W-DW	4ft 38W Batten Pack – Day White
LLS-BTN4-38W-CW	4ft 38W Batten Pack – Cool White
LLS-BTN5-52W-WW	5ft 52W Batten Pack – Warm White
LLS-BTN5-52W-DW	5ft 52W Batten Pack – Day White
LLS-BTN5-52W-CW	5ft 52W Batten Pack – Cool White

Suspension Kit



Fixing system:

- Surface Mounted (Standard)

Dimming Option Available:

- Non-Dimming Standard
- Dimming Options made to order
- 1-10V
- DALI
- DSI

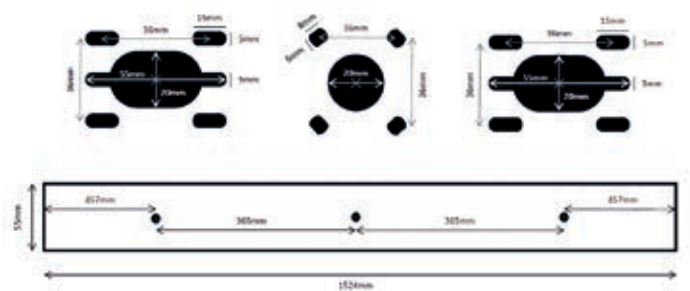
Emergency Made to order

- 3 Hour Backup

Colour Temperature

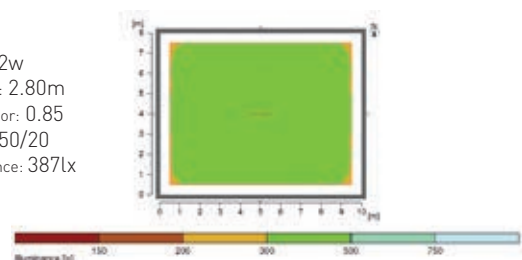
Warm White	Day White	Cool White
3000K	4000K	5000K
A soft warm light	A more natural light	Light with a more energising feel

Dimensions

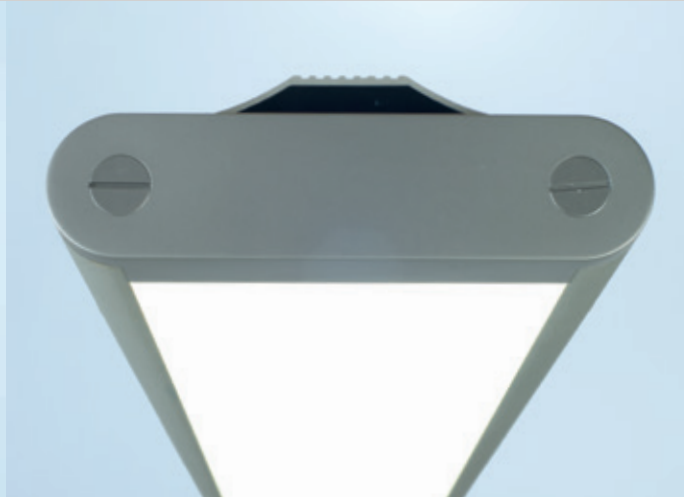


Performance

Luminaires: 9x52w
 Luminaire Height: 2.80m
 Maintenance Factor: 0.85
 Reflectance: 70/50/20
 Average Illuminance: 387lx



LLS-SH1500-50W



Hawkin

RoHS CE IP66

Applications



Characteristics of the light source

30,000 hours	4,024 lm	50 watts	80 lm/w	>80 CRI	PF 0.95
--------------	----------	----------	---------	---------	---------

Description

The Hawkin is a linear fitting suitable for surface mounting or suspension from a ceiling. A central strip of LEDs provides a high quality light output and the wide beam angle makes it suitable for open plan areas as well as in narrower locations such as corridors. The Hawkin fittings can be linked together to create a seamless bank of lights and come with an integrated driver and are pre-flexed for ease of installation.

Photometry

Height (m)	108.3°	Lux
1	2.8m	1,509
2	5.5m	377
3	8.3m	168
4	11.1m	94
5	13.8m	60
6	16.6m	42

Fixing system:

- Surface Mounted (Standard)
- Suspension Kit (Standard)
- Linkable

Dimming Option Available:

- Non-Dimming Standard
- Dimming Options made to order
- 1-10V
- DALI
- DSI

Colour Temperature

Day White	Cool White
4000K	6000K
A more natural light	Light with a more energising feel

Type

Product Code	Description
LLS-SH1500-50W-DW	Day White
LLS-SH1500-50W-CW	Cool White

Dimensions

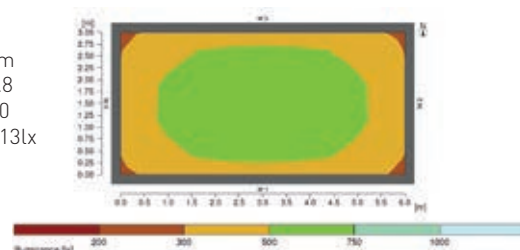


Suspension Kit



Performance

Luminaire Height: 3.0m
 Maintenance Factor: 0.8
 Reflectance: 70/50/20
 Average Illuminance: 513lx



LLS-URB70W



Candidus Urban

RoHS CE IP66



Applications



Characteristics of the light source

30,000 hours	4,632 lm	67.5 watts	68 lm/w	>80 CRI	PF 0.95
--------------	----------	------------	---------	---------	---------

Description

The Candidus Urban is a robust, architecturally styled linear light fitting. With a water resistant IP65 rating and a high lumen output, the Candidus Urban is a sleek and stylish replacement for more traditional vapour proof fittings across a wide variety of areas. The Candidus Urban comes with an integrated driver and is pre-flexed for ease of installation.

Photometry

Height (m)	Beam Spread	Lux
1	3.2m	1,600
2	6.4m	400
3	9.6m	178
4	12.8m	100
5	16.0m	64
6	19.2m	44

Fixing system:

- Surface Mounted (Standard)
- Suspension Kit (Standard)

Dimming Option Available:

- Non-Dimming Standard
- Dimming Options made to order
 - 1-10V
 - DALI
 - DSI

Colour Temperature

Day White	Cool White
4000K	5000K
A more natural light	Light with a more energising feel

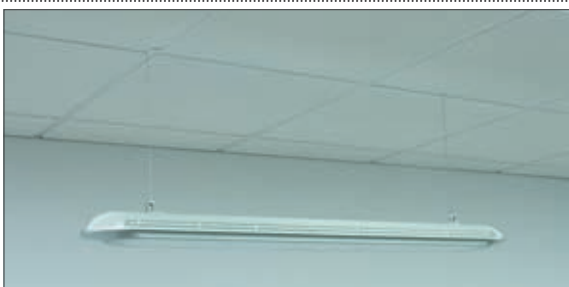
Type

Product Code	Description
LLS-URB70W-DW	70W Candidus Urban – Day White
LLS-URB70W-CW	70W Candidus Urban – Cool White

Dimensions

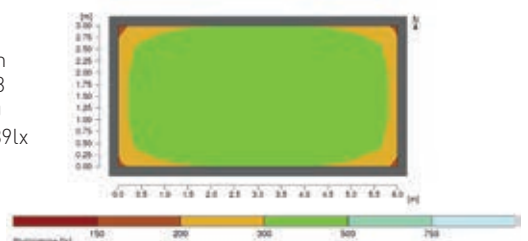


Suspension Kit



Performance

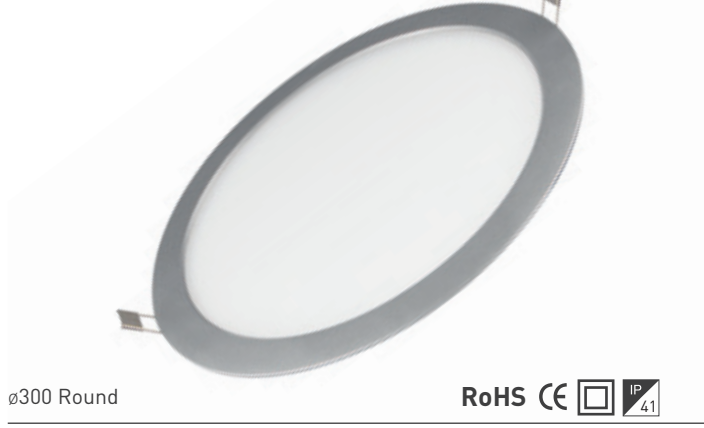
Luminaire Height: 3.0m
 Maintenance Factor: 0.8
 Reflectance: 70/50/20
 Average Illuminance: 389lx





ROUND LIGHTS

LLS-D300P20



∅300 Round

RoHS CE



Applications



Characteristics of the light source

30,000 hours	1030 lm	17 watts	59 lm/w	>70 CRI	PF 0.89	EM OPT
--------------	---------	----------	---------	---------	---------	--------

Description

Our LightSense round LED lights provide highly flexible lighting solutions that can serve as direct replacements for recessed primary and accent lights. These exceptionally thin round panel lights provide increased brightness with no UV degradation, making them ideal for retail and display environments.

Photometry

Height (m)	110°	Lux
1	3.1m	370
2	6.1m	92
3	8.7m	41
4	12m	23
5	15m	15
6	18m	10

Fixing system:

- Mounting Frame Metal (For options see page 55)

Dimming:

- 1-10V (as standard)
- DALI
- DSI

Emergency:

- 3 Hour Backup
- Maintained

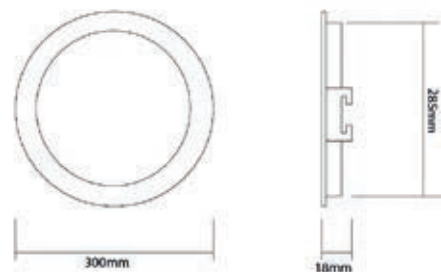
Colour Temperature

Day White	Cool White
4000K	6000K
A more natural light	Light with a more energising feel

Type

Product Code	Description
LLS-D300P20-DW	Day White
LLS-D300P20-CW	Cool White

Dimensions

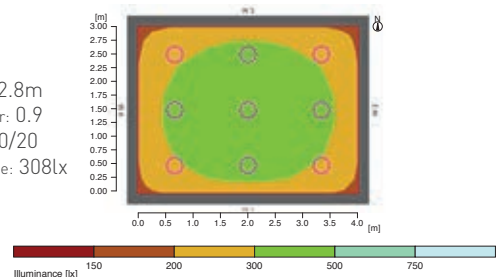


Mounting Frame



Performance

Panels: 9x17w
 Luminaire Height: 2.8m
 Maintenance Factor: 0.9
 Reflectance: 70/50/20
 Average Illuminance: 308lx



LLS-D240P16



∅240 Round

RoHS CE IP41

Applications



Characteristics of the light source

30,000 hours	855 lm	12 watts	76 lm/w	>70 CRI	PF 0.93	EM OPT
--------------	--------	----------	---------	---------	---------	--------

Description

Our LightSense round LED lights provide highly flexible lighting solutions that can serve as direct replacements for recessed primary and accent lights. These exceptionally thin round panel lights provide increased brightness with no UV degradation, making them ideal for retail and display environments.

Fixing system:

- Mounting Frame Metal (For options see page 55)

Dimming:

- 1-10V (as standard)
- DALI
- DSI

Emergency:

- 3 Hour Backup
- Maintained

Photometry

Height [m]	110°	Lux
1	3.1m	330
2	6.1m	81
3	8.7m	36
4	12m	20
5	15m	13
6	18m	10

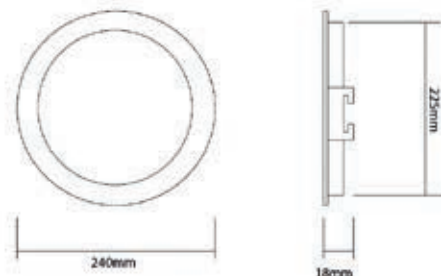
Colour Temperature

Day White	Cool White
4000K	6000K
A more natural light	Light with a more energising feel

Type

Product Code	Description
LLS-D240P16-DW	Day White
LLS-D240P16-CW	Cool White

Dimensions

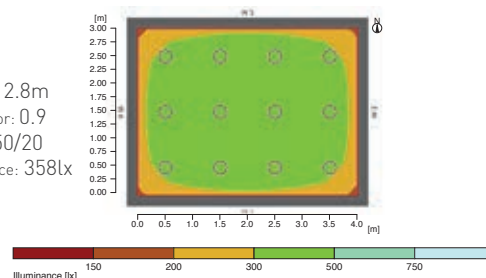


Mounting Frame



Performance

Panels: 12x16w
 Luminaire Height: 2.8m
 Maintenance Factor: 0.9
 Reflectance: 70/50/20
 Average Illuminance: 358lx



LLS-D180P10



ø180 Round

RoHS CE   IP41

Applications



Characteristics of the light source

30,000 hours	750 lm	12 watts	63 lm/w	>70 CRI	PF 0.88	EM OPT
--------------	--------	----------	---------	---------	---------	--------

Description

Our LightSense round LED lights provide highly flexible lighting solutions that can serve as direct replacements for recessed primary and accent lights. These exceptionally thin round panel lights provide increased brightness with no UV degradation, making them ideal for retail and display environments.

Fixing system:

- Mounting Frame Metal (For options see page 55)

Dimming:

- 1-10V (as standard)
- DALI
- DSI

Emergency:

- 3 Hour Backup
- Maintained

Photometry

Height (m)	110°	Lux
1	3.1m	240
2	6.1m	59
3	8.7m	26
4	12m	15
5	15m	10
6	18m	5

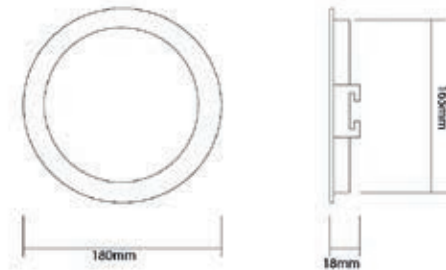
Colour Temperature

Day White	Cool White
4000K	6000K
A more natural light	Light with a more energising feel

Type

Product Code	Description
LLS-D180P10-DW	Day White
LLS-D180P10-CW	Cool White

Dimensions

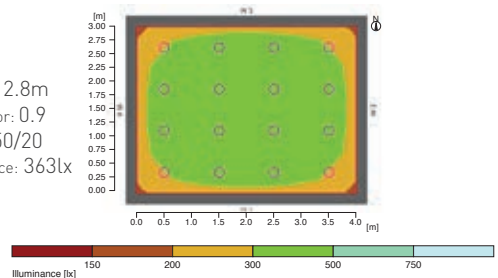


Mounting Frame



Performance

Panels: 4x36w
 Luminaire Height: 2.8m
 Maintenance Factor: 0.9
 Reflectance: 70/50/20
 Average Illuminance: 363lx





SPOTLIGHTS

LLS-CAN19W



19w Candidus Spotlight

RoHS CE IP20



Applications



Characteristics of the light source

30,000 hours	1200 lm	19 watts	63 lm/w	>80 CRI	PF 0.95
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Description

The Candidus Spotlight is a surface mounted, adjustable spotlight which is ideal for directional and display lighting. The Candidus Spotlight is available in a variety of colour temperatures to better suit the application and has been architecturally styled to complement both modern and classic décor and styling with equal facility.

Photometry

- On Request

Fixing system:

- Surface Mounted (Standard)

Dimming:

- Not Dimmable

Emergency:

- No Emergency Option

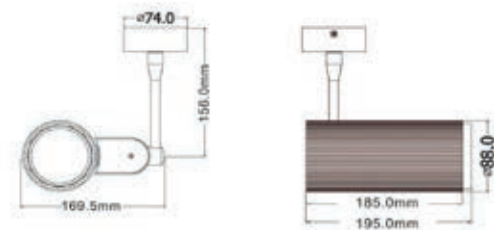
Colour Temperature

Warm White	Day White	Cool White
3000K	4000K	6000K
A soft warm light	A more natural light	Light with a more energising feel

Type

Product Code	Description
LLS-CAN19W-WW	Warm White
LLS-CAN19W-DW	Day White
LLS-CAN19W-CW	Cool White

Dimensions





DOWN LIGHTS

Description

These fire rated housings are suitable for domestic and commercial environments and have been fire tested for use with 30, 60 and 90 minute fire rated materials. The housings have been designed to have a modern feel and to accommodate our GU10 & GU5.3 lamps; coupled with the wide choice of housings, this range has a degree of flexibility which makes them suitable for any domestic or commercial applications.

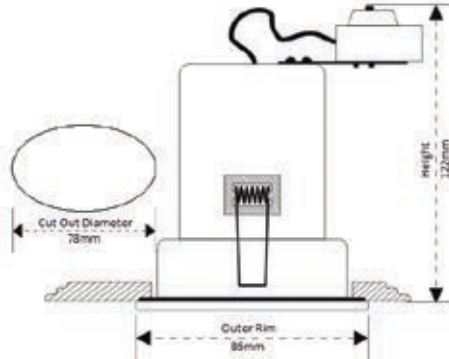
Applications



LLS-BRM



Dimensions



Product features:

- Fire rated for use with 30/60/90 minute materials
- Compatible with LightSense GU10 & GU5.3 lamps
- Choice of surround
- Fixed angle for even spread of light

Type

Product Code	Description
LLS-BRM1	White
LLS-BRM2	Chrome Polished
LLS-BRM4	Satin Nickel

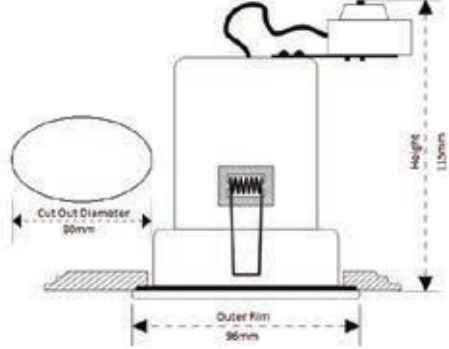
Fire Rated Downlight



LLS-FRMD



Dimensions



Product features:

- Fire rated for use with 30/60/90 minute materials
- Compatible with LightSense GU10 & GU5.3 lamps
- Choice of surround
- Adjustable beam angle for directional light control

Type

Product Code	Description
LLS-FRMD1	White
LLS-FRMD2	Chrome
LLS-FRMD4	Brushed Chrome

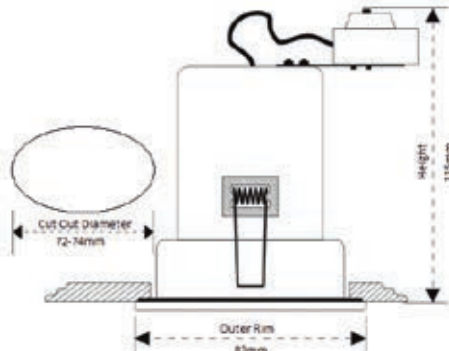
Fire Rated Downlight



LLS-FRMS



Dimensions



Product features:

- Fire rated for use with 30/60/90 minute materials
- Compatible with LightSense GU10 & GU5.3 lamps
- Choice of surround
- Fixed angle for even spread of light

Type

Product Code	Description
LLS-FRMS1	White
LLS-FRMS2	Brushed Chrome
LLS-FRMS4	Chrome

Fire Rated Downlight



LLS-GU10-6.8W



Product features:

- 6.8W
- 400lm
- 58.8 lm/W
- CRI 80
- Integral dimmable driver

Type

Product Code	Description
LLS-GU10-6.8W-DW	Day White
LLS-GU10-6.8W-WW	Warm White

LLS-GU5.3-6.8W



Product features:

- 6.8W
- 400lm
- 58.8 lm/W
- CRI 80
- Remote dimmable driver

Type

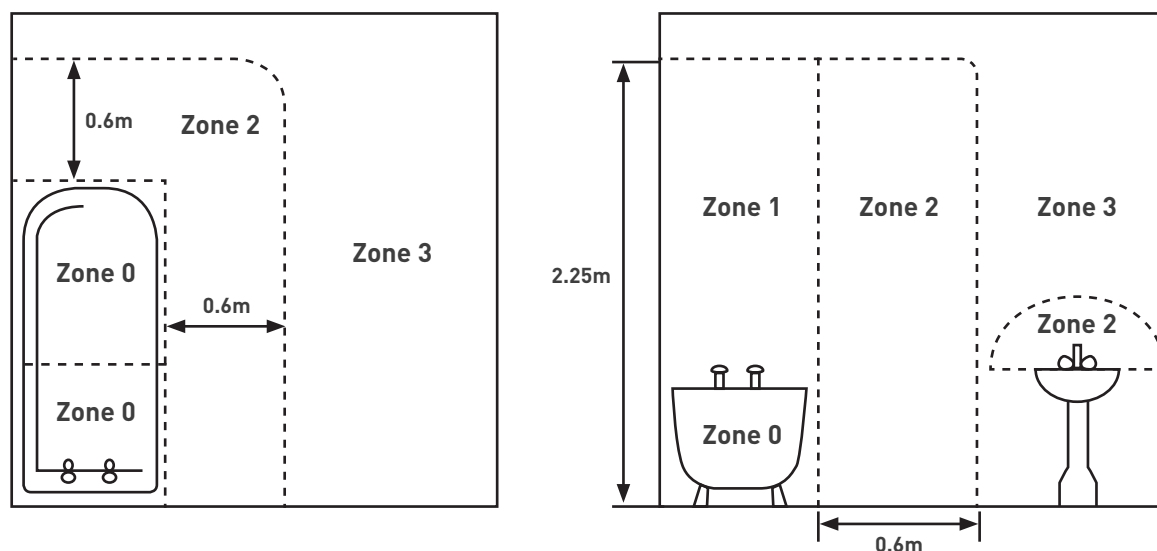
Product Code	Description
LLS-GU5.3-6.8W-DW	Day White
LLS-GU5.3-6.8W-WW	Warm White

IP65 FIRE RATED DOWNLIGHT

Where should the IP65 fire rated downlight be used?

IP stands for ingress protection; the IP65 fire rated downlight is completely protected against dust and protected against low pressure jets of water from all directions. The IP65 rating makes them ideal for use in bathrooms and shower facilities.

The following sketch of a bathroom space is divided into 4 zones. Each zone is numbered according to its distance from a source of water:



Zone 0

The inside of the bath or shower that can hold water. This area has regular exposure to water, or complete immersion. Electrical products must be low voltage (no higher than 12V) and rated no lower than IP67.

Zone 1

The area directly above the bath or shower tray up to a height of 225cm, such as the inside of a shower cubicle. Fittings in this area must be splash proof, carrying a minimum rating of IP44. If the fitting is subject to direct contact with water, a higher rating of IP65 (jet proof) is required.

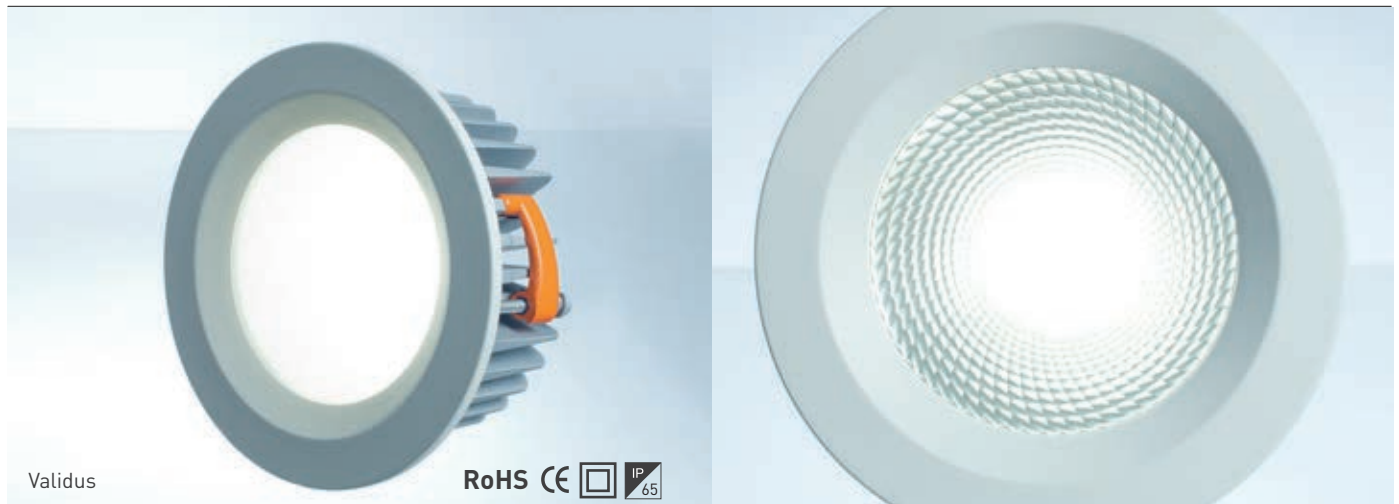
Zone 2

Any area in the bathroom within 60cm of the perimeter of the shower cubicle, bath or sink. Fittings in this area must be splash proof, carrying a minimum rating of IP44. Legislation states bathroom lighting in this area should be fit for purpose in compliance with BS7671.

Zone 3

All other areas of the bathroom. Although no specific IP rating is required for this area many developers and contractors choose to install bathroom lights with a minimum rating of IP44. Legislation states bathroom lighting in this area should be fit for purpose in compliance with BS7671.

The above bathroom lighting zones information is intended as a guide only. The information is based on the UK IEE Wiring regulations (BS7671) which may be subject to change.



Validus

RoHS CE IP65

Applications



Characteristics of the light source

30,000 hours	2,227 lm	32 watts	71.3 lm/w	>80 CRI
PF 0.96	EM OPT			

Above data accurate for the 32W luminaire, data for alternative wattages available on request.



Description

The Validus range of downlights have been designed as a replacement for compact fluorescent downlights and are available in various sizes to fit the majority of existing cut outs, allowing for ease of installation and seamless integration into any commercial, retail or educational environment. The Validus range has a high lumen output and its superb performance allows you to reduce expenditure whilst enhancing existing light levels.

Fixing system:

- Recessed
- Bezel Options

Dimming:

- 1-10V (as standard)
- DALI
- DSI

Emergency:

- 3 Hour Backup
- Maintained

Style:

- Choice of bezel (white, black or grey)
- Additional bezels can be made to order based on RAL colour
- Bezels are interchangeable across the range

Colour Temperature

Warm White	Day White
3000K	4000K
A soft warm light	A more natural light

Type

Product Code	Description	Cut Out
LLS-VAL-10W	10W Validus Downlight	90mm
LLS-VAL-16W	16W Validus Downlight	125mm
LLS-VAL-18W	18W Validus Downlight	127mm
LLS-VAL-26W	26W Validus Downlight	175mm
LLS-VAL-32W	32W Validus Downlight	175mm
LLS-VAL-38W	38W Validus Downlight	205mm
LLS-VAL-42W	42W Validus Downlight	205mm
LLS-VAL-56W	56W Validus Downlight	205mm

Ordering Information

Please suffix one selection from each of the following columns to the above product codes when ordering:

Suffix	Description	Suffix	Description	Suffix	Description
-40	40° Beam Angle	-WW	Warm White	-W	White Bezel
-60	60° Beam Angle	-DW	Day White	-G	Grey Bezel
-80	80° Beam Angle			-B	Black Bezel

LLS-LIB



Libertas



Applications



Characteristics of the light source

30,000 hours	1,100 lm	16 watts	75.8 lm/w	>80 CRI	PF 0.94	EM OPT
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Above data accurate for the 16W luminaire, data for alternative wattages available on request.

Description

The Libertas range of downlights is an impressive, high performance range of products designed for use where high quality downlights are a must. These stylish and functional lights would be equally at home in a restaurant, showroom or domestic setting.

Colour Temperature

Fixing system:

- Recessed
- Bezel Options

Mellow White Warm White Day White

Dimming:

- 1-10V (as standard)
- DALI
- DSI

2700K 3000K 4000K

Emergency:

- 3 Hour Backup
- Maintained

A gentle cosy light A soft warm light A more natural light

Ordering Information

Select your luminaire and suffix the product code with your required beam angle, colour temperature code and the last 3 characters from the required accessory (e.g. LLS-LIB-8W-36-MW-1AW)

Available beam angles:

- 20° Available for 14W & 18W
- 22° Available for 16W
- 30° Available for 14W & 18W
- 36° Available for 8W, 12W, 12W-S & 16W
- 60° Available for 8W, 12W, 12W-S, 14W, 16W & 18W

Type

Product Code	Description
LLS-LIB-8W	8W Libertas Downlight
LLS-LIB-12W-S	12W Libertas Downlight (Slim)
LLS-LIB-12W	12W Libertas Downlight
LLS-LIB-14W	14W Libertas Downlight
LLS-LIB-16W	16W Libertas Downlight
LLS-LIB-18W	18W Libertas Downlight



LLS-FIM



Firma



Applications



Characteristics of the light source

30,000 hours	800 lm	12 watts	66.6 lm/w	>70 CRI	PF 0.90
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Above data accurate for the 12W luminaire, data for alternative wattages available on request

Description

The Firma range of fixed, dimmable downlights is designed to be a cost effective solution for your downlighting needs. The Firma downlights are suitable for a wide variety of domestic and commercial applications and offer impressive performance when compared to similar products.

Fixing system:

- Recessed
- Bezel Options

Dimming:

- TRIAC Dimmable

Fire Rated:

- 30, 60, 90
- No Emergency Option

Colour Temperature

Warm White	Day White
3000K	4000K
A soft warm light	A more natural light

Style:

- Choice of bezel (white, graphite, chrome or brushed chrome)
- Interchangeable bezels for non-COB luminaires

Type

Product Code	Description
LLS-FIM-10W	10W COB Firma Downlight
LLS-FIM-9W	9W IP65 Firma Downlight
LLS-FIM-12W	12W IP65 Firma Downlight

Ordering Information

Please suffix one selection from each of the following columns to the above product codes when ordering:

Suffix	Description	Suffix	Description
-WH	White Bezel	-WW	Warm White
-GR	Graphite Bezel	-DW	Day White
-CH	Chrome Bezel		
-BC	Brushed Chrome Bezel		



White
Available with 9W, 10W & 12W



Graphite
Available with 9W & 12W



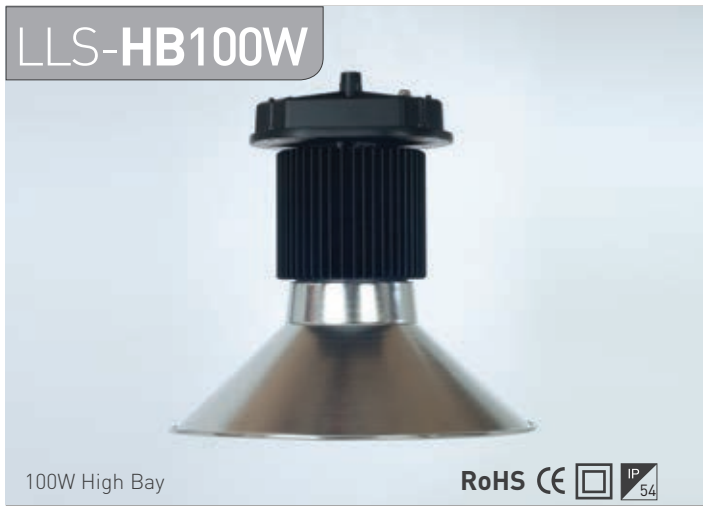
Chrome
Available with 9W, 10W & 12W



Brushed Chrome
Available with 9W, 10W & 12W



HIGH BAYS



Applications



Characteristics of the light source

30,000 hours	9000 lm	100 watts	90 lm/w	>75 CRI	PF >0.95
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Description

LED LightSense supplies highly powered LED High Bay Lighting. Our LightSense High Bay Lights are direct replacements for metal halide high bays or high pressure sodium lights. They offer significant energy savings compared to traditional halide/sodium lamps and they are low maintenance with long lamp life so are ideal for installing in difficult to reach places.

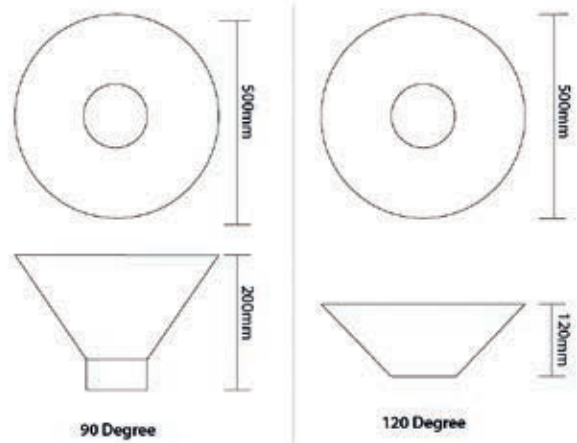
Photometry

Height (m)	90°	Lux
1.6	Reflector: 90°	1700
3.2		430
4.8		190
6.4		110
8		68

Fixing system:

- I-Bolt included
- Suspension Kit optional

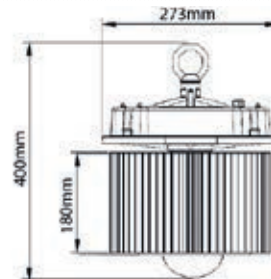
Reflector



Type

Product Code	Description
LLS-HB100W	High Bay
REFL90	90° Reflector
REFL120	120° Reflector

Dimensions

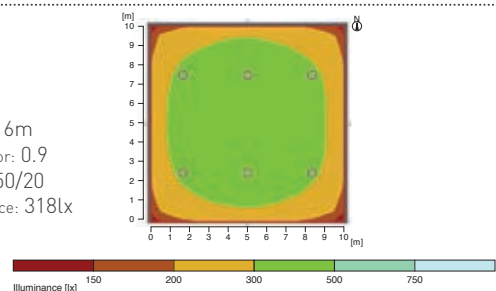


Colour Temperature

Cool White
6000K

Performance

Lights: 6x100w
Reflector: 90°
Luminaire Height: 6m
Maintenance Factor: 0.9
Reflectance: 70/50/20
Average Illuminance: 318lx



LLS-HB120W



120W High Bay

RoHS CE IP54



Applications



Characteristics of the light source

30,000 hours	10800 lm	120 watts	90 lm/w	>75 CRI	PF >0.95
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Description

LED LightSense supplies highly powered LED High Bay Lighting. Our LightSense High Bay Lights are direct replacements for metal halide high bays or high pressure sodium lights. They offer significant energy savings compared to traditional halide/sodium lamps and they are low maintenance with long lamp life so are ideal for installing in difficult to reach places.

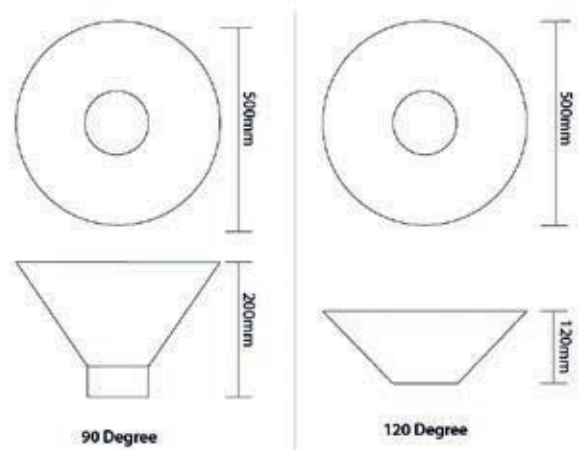
Photometry

Height (m)	90°	Lux
1.6	Reflector: 90°	2600
3.2		640
4.8		280
6.4		160
8		100

Fixing system:

- I-Bolt included
- Suspension Kit optional

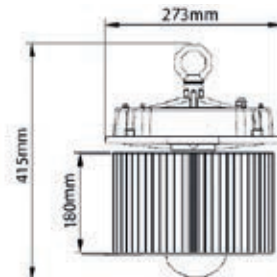
Reflector



Type

Product Code	Description
LLS-HB120W	High Bay
REFL90	90° Reflector
REFL120	120° Reflector

Dimensions

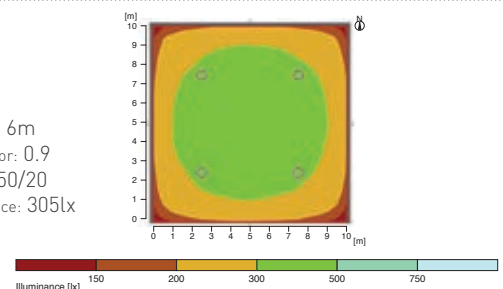


Colour Temperature

Cool White
6000K

Performance

Lights: 4x120w
Reflector: 90°
Luminaire Height: 6m
Maintenance Factor: 0.9
Reflectance: 70/50/20
Average Illuminance: 305lx





Applications



Characteristics of the light source

30,000 hours	12000 lm	150 watts	80 lm/w	>75 CRI	PF >0.95
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Description

LED LightSense supplies highly powered LED High Bay Lighting. Our LightSense High Bay Lights are direct replacements for metal halide high bays or high pressure sodium lights. They offer significant energy savings compared to traditional halide/sodium lamps and they are low maintenance with long lamp life so are ideal for installing in difficult to reach places.

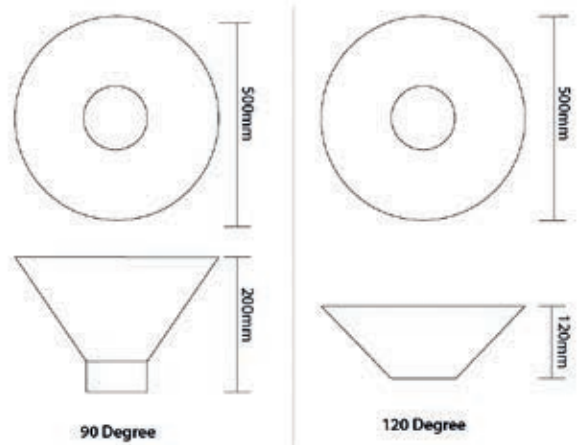
Photometry

Height (m)	90°	Lux
1.6	Reflector: 90°	3000
3.2		750
4.8		330
6.4		190
8		120

Fixing system:

- I-Bolt included
- Suspension Kit optional

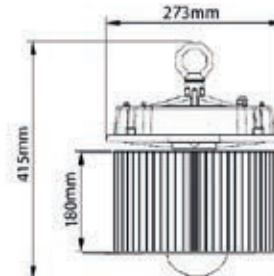
Reflector



Type

Product Code	Description
LLS-HB150W	High Bay
REFL90	90° Reflector
REFL120	120° Reflector

Dimensions

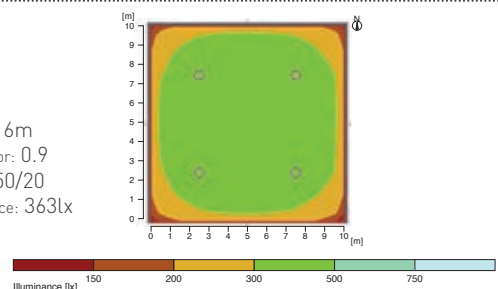


Colour Temperature

Cool White
6000K

Performance

Lights: 4x150w
Reflector: 90°
Luminaire Height: 6m
Maintenance Factor: 0.9
Reflectance: 70/50/20
Average Illuminance: 363lx



LLS-HB200W



200W High Bay

RoHS CE IP54



Applications



Characteristics of the light source

30,000 hours	16000 lm	200 watts	80 lm/w	>75 CRI	PF >0.95
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Description

LED LightSense supplies highly powered LED High Bay Lighting. Our LightSense High Bay Lights are direct replacements for metal halide high bays or high pressure sodium lights. They offer significant energy savings compared to traditional halide/sodium lamps and they are low maintenance with long lamp life so are ideal for installing in difficult to reach places.

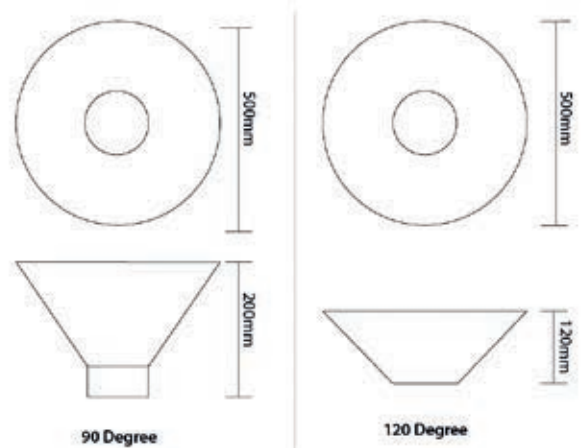
Photometry

Height (m)	90°	Lux
1.6	Reflector: 90°	4000
3.2		1000
4.8		440
6.4		250
8		160

Fixing system:

- I-Bolt included
- Suspension Kit optional

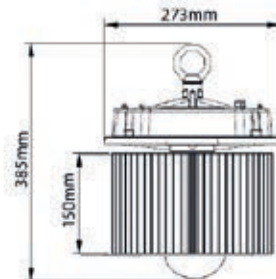
Reflector



Type

Product Code	Description
LLS-HB200W	High Bay
REFL90	90° Reflector
REFL120	120° Reflector

Dimensions

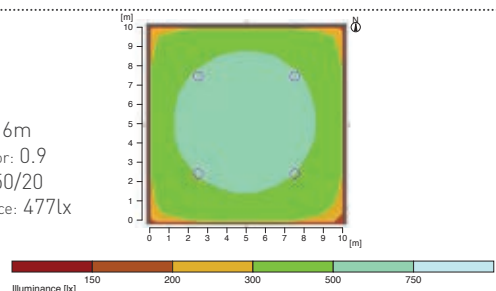


Colour Temperature

Cool White
6000K

Performance

Lights: 4x200w
Reflector: 90°
Luminaire Height: 6m
Maintenance Factor: 0.9
Reflectance: 70/50/20
Average Illuminance: 477lx





Why shouldn't functional lighting be beautiful?

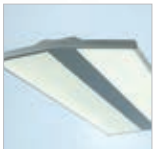
LightSense supplies a wide range of architecturally styled luminaires, designed to provide high performance lighting whilst being aesthetically pleasing.

These lights provide superb efficiency and efficacy ratings whilst offering a creative and elegant alternative to more traditional luminaires.

Why retain the same old and uninspired fixtures when you can use your lights to create a unique and stylish feel to your interior design?

For more information, call us on **01206 890248** or visit our website **www.ledlightsense.co.uk/products**

Ambient



Street



Ceiling



Commercial



Domestic



Exterior



we make light, we make sense.



LightSense[®]

01206 890248 ledlightsense.co.uk



BULKHEADS



LLS-BH20SQ

20W Square Bulkhead

RoHS CE

Applications



Characteristics of the light source

30,000 hours	1600 lm	20 watts	84 lm/w	>75 CRI	PF 0.89	EM OPT
--------------	---------	----------	---------	---------	---------	--------

Description

Our water resistant LightSense LED Bulkheads are hard-wearing and provide large amounts of light. They are used mostly in commercial areas where it is necessary to have a bright light which is compact and robust and can be either ceiling or wall mounted.

Dimming:

- Non-Dimmable as standard
- Dimming available via sensor option

Emergency:

- 3 Hour Backup
- Maintained

Photometry

Height (m)	95°	Lux
1	2.2m	630
2	4.3m	160
3	6.5m	70
4	8.6m	39
5	11m	25
6	13m	17

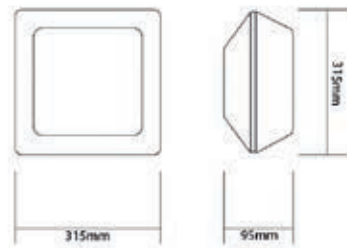
Sensor:

The sensor version offers an automatic dimming solution. It dims to 30% of normal output after detecting a lack of motion for a programmed period of time. The period is adjustable from 10 seconds to 5 minutes. It detects motion over a 180° arc within a selected range, which can be set between 1m and 8m.

Type

Product Code	Description
LLS-BH20SQ	Bulkhead
LLS-BH20SQ-SEN	Sensor Version
LLS-BH20SQ-EM	Emergency Version
LLS-BH20SQ-SEN-EM	Sensor and Emergency

Dimensions

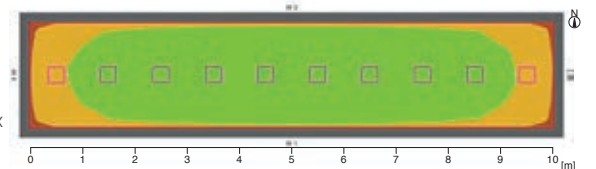


Colour Temperature

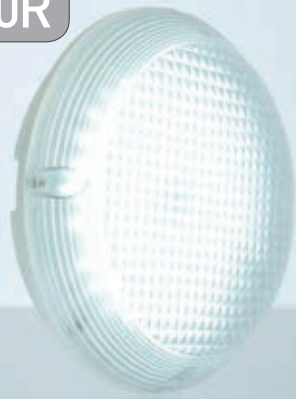
Cool White
6000K

Performance

Lights: 10x20w
Luminaire Height: 2.8m
Maintenance Factor: 0.9
Reflectance: 70/50/20
Average Illuminance: 337lx



LLS-BH20R



20W Round Bulkhead

RoHS CE IP65

Applications



Characteristics of the light source

30,000 hours	1600 lm	20 watts	89 lm/w	>75 CRI	PF 0.89	EM OPT
--------------	---------	----------	---------	---------	---------	--------

Description

Our water resistant LightSense LED Bulkheads are hard-wearing and provide large amounts of light. They are used mostly in commercial areas where it is necessary to have a bright light which is compact and robust and can be either ceiling or wall mounted.

Dimming:

- Non-Dimmable as standard
- Dimming available via sensor option

Emergency:

- 3 Hour Backup
- Maintained

Photometry

Height (m)	91°	Lux
1	2.1m	610
2	4.1m	150
3	6.2m	67
4	8.2m	38
5	10m	24
6	12m	17

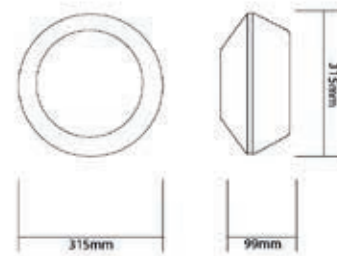
Sensor:

The sensor version offers an automatic dimming solution. It dims to 30% of normal output after detecting a lack of motion for a programmed period of time. The period is adjustable from 10 seconds to 5 minutes. It detects motion over a 180° arc within a selected range, which can be set between 1m and 8m.

Type

Product Code	Description
LLS-BH20R	Bulkhead
LLS-BH20R-SEN	Sensor Version
LLS-BH20R-EM	Emergency Version
LLS-BH20R-SEN-EM	Sensor and Emergency

Dimensions

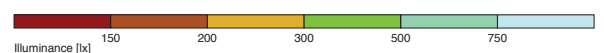
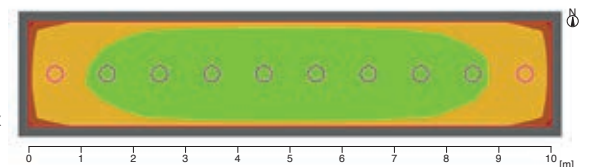


Colour Temperature

Cool White
6000K

Performance

Lights: 10x20w
Luminaire Height: 2.8m
Maintenance Factor: 0.9
Reflectance: 70/50/20
Average Illuminance: 310lx



LLS-BH12R



12W Round Bulkhead

RoHS CE   



Applications



Characteristics of the light source

30,000 hours	580 lm	12 watts	48 lm/w	>75 CRI	PF 0.87	EM OPT
--------------	--------	----------	---------	---------	---------	--------

Description

Our water resistant LightSense LED Bulkheads are hard-wearing and provide large amounts of light. They are used mostly in commercial areas where it is necessary to have a bright light which is compact and robust and can be either ceiling or wall mounted.

Dimming:

- Non-Dimmable as standard
- Dimming available via sensor option

Emergency:

- 3 Hour Backup
- Maintained

Photometry

Height (m)	119°	Lux
1	3.4m	160
2	6.9m	41
3	10m	18
4	14m	10
5	17m	6.6
6	21m	4.6

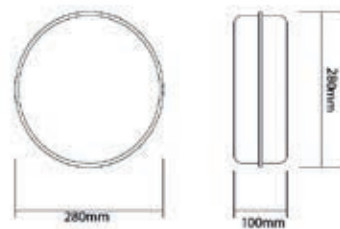
Sensor:

The sensor version offers an automatic dimming solution. It dims to 30% of normal output after detecting a lack of motion for a programmed period of time. The period is adjustable from 10 seconds to 5 minutes. It detects motion over a 180° arc within a selected range, which can be set between 1m and 8m.

Type

Product Code	Description
LLS-BH12R	Bulkhead
LLS-BH12R-SEN	Sensor Version
LLS-BH12R-EM	Emergency Version
LLS-BH12R-SEN-EM	Sensor and Emergency

Dimensions



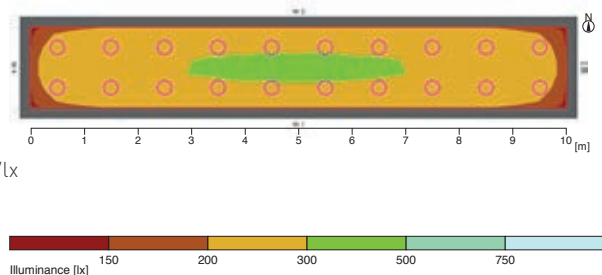
Colour Temperature

Cool White

5200K

Performance

Lights: 10x12w
 Luminaire Height: 2.2m
 Maintenance Factor: 0.9
 Reflectance: 70/50/20
 Average Illuminance: 267lx



LLS-BH12R-IP54



12W Round Bulkhead

RoHS CE IP54

Applications



Characteristics of the light source

30,000 hours	640 lm	12 watts	54 lm/w	>80 CRI	PF 0.88	EM OPT
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Description

Our LightSense LED Bulkheads are hard-wearing and provide large amounts of light. They are used mostly in commercial areas where it is necessary to have a bright light which is compact and robust and can be either ceiling or wall mounted.

Dimming:

- Non-Dimmable as standard
- Dimming available via sensor option

Emergency:

- 3 Hour Backup
- Maintained

Photometry

Height (m)	112°	Lux
1	3.0m	210
2	6.0m	52
3	9.1m	23
4	12.1m	13
5	15m	8.4
6	18m	5.8

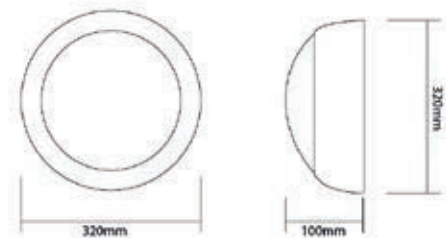
Sensor:

The sensor version offers an automatic dimming solution. It dims to 30% of normal output after detecting a lack of motion for a programmed period of time. The period is adjustable from 10 seconds to 5 minutes. It detects motion over a 180° arc within a selected range, which can be set between 1m and 8m.

Type

Product Code	Description
LLS-BH12R-IP54	Bulkhead
LLS-BH12R-IP54-SEN	Sensor Version
LLS-BH12R-IP54-EM	Emergency Version
LLS-BH12R-IP54-SEN-EM	Sensor and Emergency

Dimensions

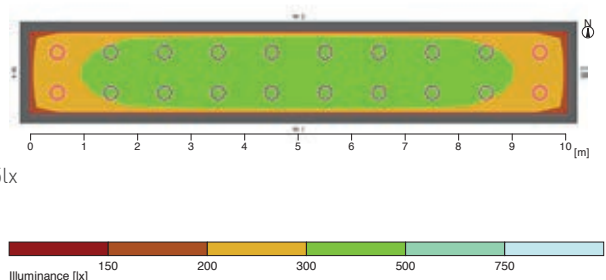


Colour Temperature

Cool White
5600K

Performance

Lights: 10x12w
Luminaire Height: 2.2m
Maintenance Factor: 0.9
Reflectance: 70/50/20
Average Illuminance: 315lx



I couldn't believe how difficult it was to source reliable LED lighting, so I made my own...



As a property developer and contractor, I was looking to source energy efficient lighting for a new green business park.

Whilst I was searching, I kept on running into the same difficulties; suppliers would promise the world but their products did not meet the standard I had set for lighting. I soon came to despair of finding reliable and affordable panels of sufficient quality and consulted a UK manufacturing firm with in depth knowledge of LED production to create an optimal specification for the panel.

Armed with this specification, I was able to work with our manufacturing team to create an edge lit panel with a thicker light guide to remove shadowing in the panel and increase uniformity of light, a design to allow for a low unified glare rating optimised especially for office use providing a lumen package to match fluorescent equivalents whilst maintaining energy efficiency and ensuring excellent product lifespan.

I had several samples made and tested in the UK before I felt that I had attained the level of quality I was looking for. Once I was satisfied,

I went ahead with the production of the lights for installation.

I thought that I must not have been the only person to be frustrated by the low quality of products which seemed to saturate the market and decided that other developers, contractors and business owners would benefit from the hard work put in to create the optimal panel for my new office installation – and from this LightSense was born.

LightSense has now grown to offer the complete solution to your lighting needs, offering a full range of interior and exterior lighting for any domestic, commercial or industrial application.

If you would like further information, or if you would like to come and see our lights in situ at our showroom and external display zone then please do not hesitate to contact us:

Tel. **01206 890248**

Email: info@ledlightsense.co.uk

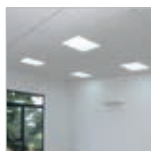
Ambient



Street



Ceiling



Commercial



Domestic



Exterior



we make light, we make sense.

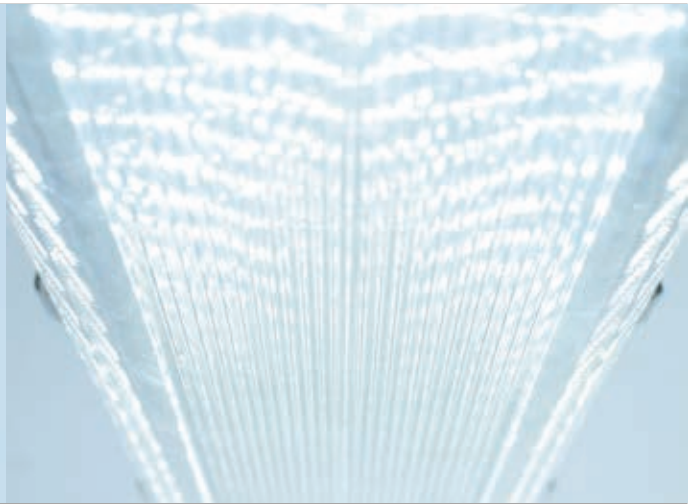

LightSense[®]

01206 890248 ledlightsense.co.uk



NON- CORROSIVES

LLS-NC20W



2ft Non-Corrosive

RoHS CE   IP65

Applications



Characteristics of the light source

30,000 hours	1750 lm	20 watts	85 lm/w	>80 CRI	PF 0.94	EM OPT
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Description

Our LightSense LED Non-Corrosive is suitable for use in industrial areas, workshops, car parks, kitchens and garages. These low maintenance, highly durable luminaires offer high ingress protection from moisture, dust and vandalism. They are also a direct replacement for a twin vapour proof.

Fixing system:

- Surface mounted
- Jack chain optional

Emergency:

- 3 Hour Backup
- Maintained

Photometry

Height (m)	102°	Lux
1	2.4m	740
2	4.8m	180
3	7.1m	82
4	9.5m	46
5	12m	29
6	14m	20

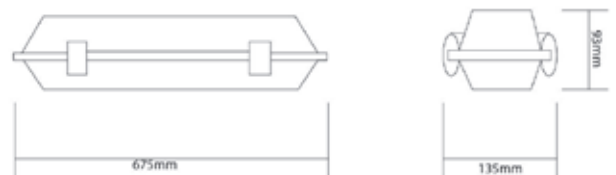
Diffuser



Type

Product Code	Description
LLS-NC20W-C	Clear Diffuser
LLS-NC20W-EM-C	Clear, Emergency
LLS-NC20W-F	Frosted Diffuser
LLS-NC20W-EM-F	Frosted, Emergency

Dimensions

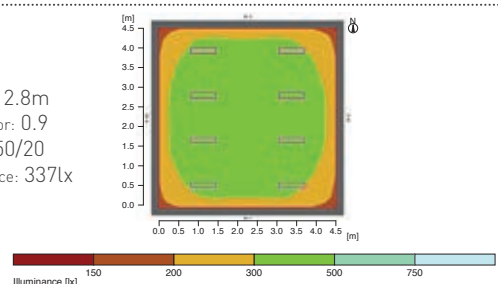


Colour Temperature

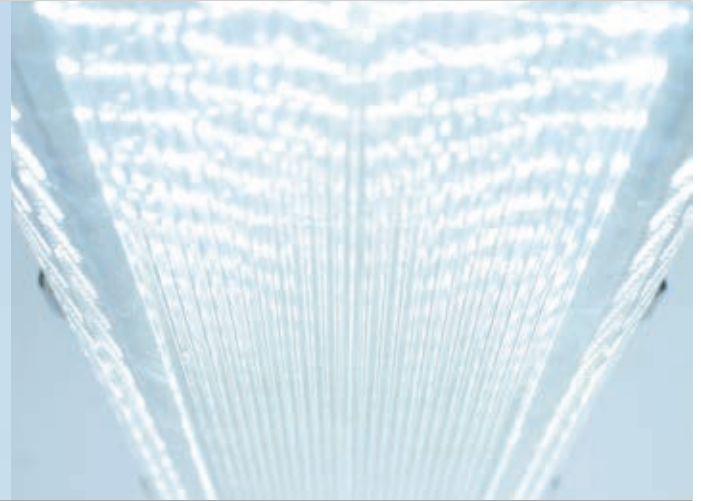
Cool White
5500K

Performance

Lights: 8x20w
Luminaire Height: 2.8m
Maintenance Factor: 0.9
Reflectance: 70/50/20
Average Illuminance: 337lx



LLS-NC40W



4ft Non-Corrosive

RoHS CE

Applications



Characteristics of the light source

30,000 hours	4100 lm	40 watts	100 lm/w	>80 CRI	PF >0.95	EM OPT
--------------	---------	----------	----------	---------	----------	--------

Description

Our LightSense LED Non-Corrosive is suitable for use in industrial areas, workshops, car parks, kitchens and garages. These low maintenance, highly durable luminaires offer high ingress protection from moisture, dust and vandalism. They are also a direct replacement for a twin vapour proof.

Fixing system:

- Surface mounted
- Jack chain optional

Emergency:

- 3 Hour Backup
- Maintained

Photometry

Height (m)	110°	Lux
1	3.1m	1300
2	6.1m	320
3	8.7m	140
4	12m	81
5	15m	51
6	18m	35

Diffuser

Clear

Frosted



Type

Product Code	Description
LLS-NC40W-C	Clear Diffuser
LLS-NC40W-EM-C	Clear, Emergency
LLS-NC40W-F	Frosted Diffuser
LLS-NC40W-EM-F	Frosted, Emergency

Dimensions



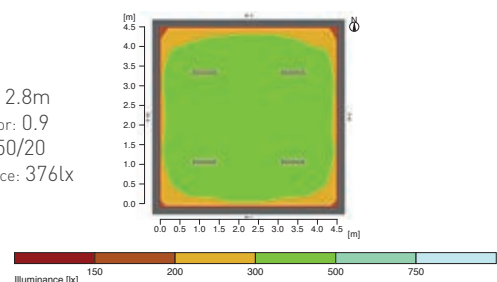
Colour Temperature

Cool White

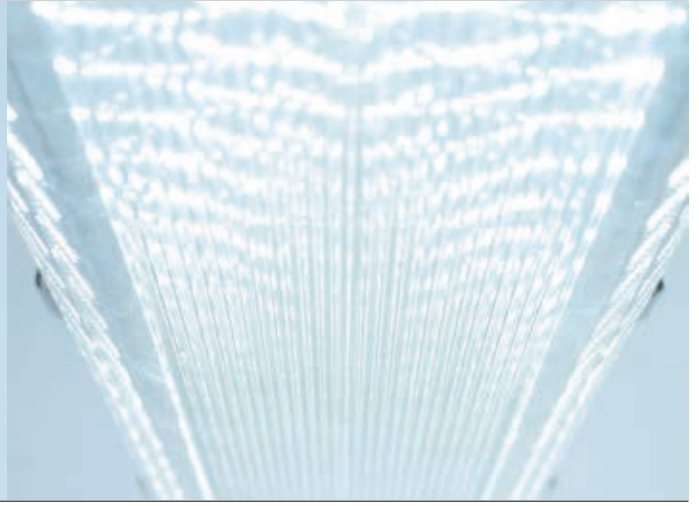
5500K

Performance

Lights: 4x40w
 Luminaire Height: 2.8m
 Maintenance Factor: 0.9
 Reflectance: 70/50/20
 Average Illuminance: 376lx



LLS-NC50W



5ft Non-Corrosive

RoHS CE

Applications



Characteristics of the light source

30,000 hours	4600 lm	51 watts	90 lm/w	>80 CRI	PF 0.94	EM OPT
--------------	---------	----------	---------	---------	---------	--------

Description

Our LightSense LED Non-Corrosive is suitable for use in industrial areas, workshops, car parks, kitchens and garages. This low maintenance, highly durable luminaire offers high ingress protection from moisture, dust and vandalism. They are also a direct replacement for a twin vapour proof.

Fixing system:

- Surface mounted
- Jack chain optional

Emergency:

- 3 Hour Backup
- Maintained

Photometry

Height (m)	100°	Lux
1	2.3m	1800
2	4.6m	450
3	6.8m	200
4	9.1m	110
5	11m	72
6	14m	50

Diffuser



Type

Product Code	Description
LLS-NC50W-C	Clear Diffuser
LLS-NC50W-EM-C	Clear, Emergency
LLS-NC50W-F	Frosted Diffuser
LLS-NC50W-EM-F	Frosted, Emergency

Dimensions

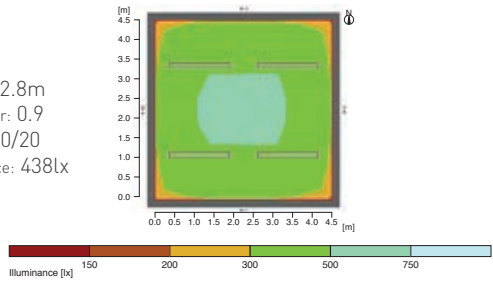


Colour Temperature

Cool White
5500K

Performance

Lights: 4x51w
Luminaire Height: 2.8m
Maintenance Factor: 0.9
Reflectance: 70/50/20
Average Illuminance: 438lx





FLOODLIGHTS

LLS-FL50W



50W Floodlight

RoHS CE

Applications



Characteristics of the light source

30,000 hours	4000 lm	50 watts	80 lm/w	>70 CRI	PF >0.95
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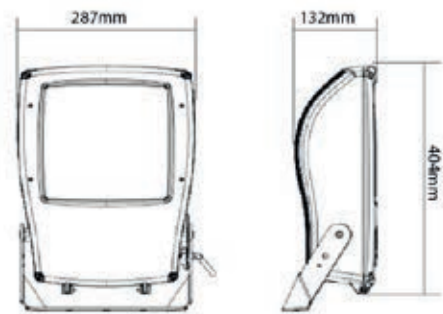
Description

LightSense LED floodlights produce a powerful beam to improve safety and security in an area, due to a high level of illumination. They are IP65 rated so are protected against dust and weather and they last much longer than traditional floodlights.



Fixing system:

- Bracket mount included



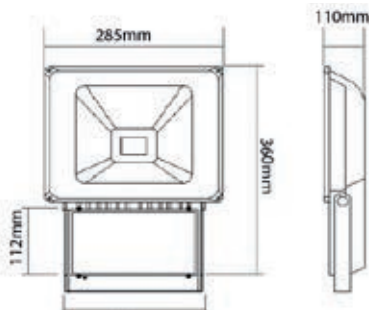
LLS-FL100W



100W Floodlight

RoHS CE

30,000 hours	8000 lm
100 watts	80 lm/w
>70 CRI	PF >0.95



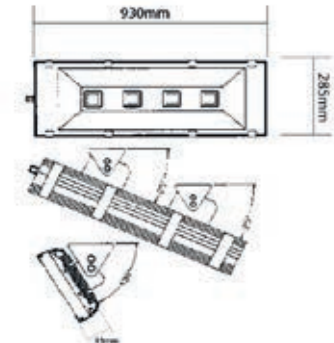
LLS-FL280W



280W Floodlight

RoHS CE

30,000 hours	20000 lm
280 watts	81 lm/w
>70 CRI	PF >0.95



Colour Temperature

Cool White
6000K

Type

Product Code	Description
LLS-FL50W	50W Floodlight
LLS-FL100W	100W Floodlight
LLS-FL280W	280W Floodlight



STREET LIGHTS



LLS-3843-STR3

50W Street Lights

RoHS CE IP66

Applications



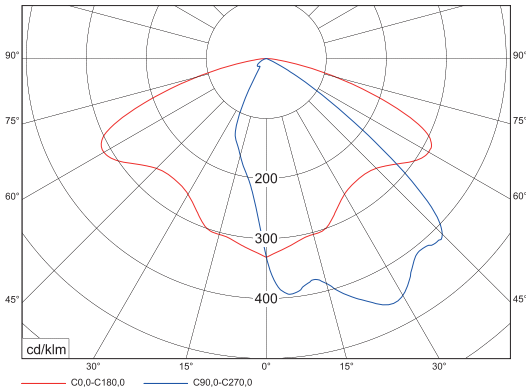
Characteristics of the light source

-80,000 hours	4200 lm	49 watts	86 lm/w
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Description

We have partnered with Grah to bring you this range of street lights. These are currently some of the most advanced LED street lights available on the world market. They are produced with high quality materials and meet the required standards for all quality and performance certificates.

Photometry



Mounting system:

- Mounts onto $\varnothing 60\text{mm}$ / $\varnothing 76\text{mm}$ lampposts
- Angle adjustable from -15° to 15°

NEMA Socket Option:

A standard connection with a variety of applications. Various products are available including part-night, automatic dimming/switching and smart lighting systems that allow remote monitoring and control.

Dimming Options:

- Analogue
- 1-10V
- DALI
- Step

EN 13201 Rating:

- S3
- ME5

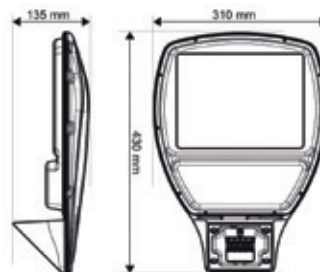
UMSUG Code

41 0049 0008 100

Type

Product Code	Description
LLS-LSL30	Street Light
LLS-LSL30-D	Dimmable Version
LLS-LSL30-NC	NEMA Cell Version
LLS-LSL30W-D-NC	Dimm. and NEMA Cell

Dimensions



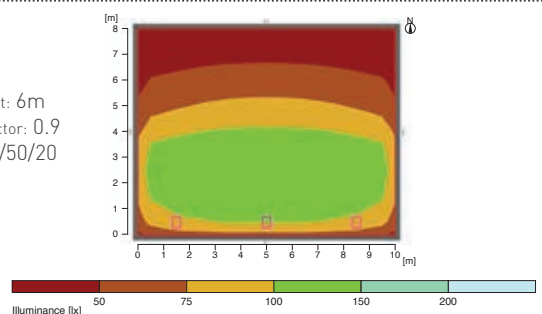
Colour Temperature

Day White

4200K

Performance

Lights: 3x42w
 Luminaire Height: 6m
 Maintenance Factor: 0.9
 Reflectance: 70/50/20



LLS-5080-STR6



100W Street Lights



Applications



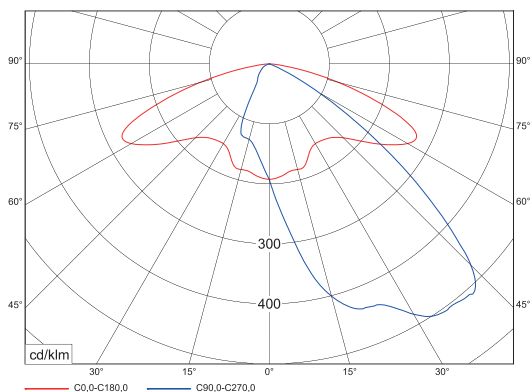
Characteristics of the light source

~80,000 hours	8700 lm	93 watts	94 lm/w
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Description

We have partnered with Grah to bring you this range of street lights. These are currently some of the most advanced LED street lights available on the world market. They are produced with high quality materials and meet the required standards for all quality and performance certificates.

Photometry



Mounting system:

- Mounts onto $\varnothing 60\text{mm}$ / $\varnothing 76\text{mm}$ lampposts
- Angle adjustable from -15° to 15°

NEMA Socket Option:

A standard connection with a variety of applications. Various products are available including part-night, automatic dimming/switching and smart lighting systems that allow remote monitoring and control.

Dimming Options:

- Analogue
- 1-10V
- DALI
- Step

EN 13201 Rating:

- ME4

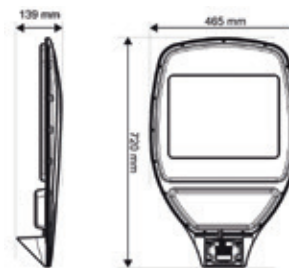
UMSUG Code

41 0093 0004 100

Type

Product Code	Description
LLS-LSL60	Street Light
LLS-LSL60-D	Dimmable Version
LLS-LSL60-NC	NEMA Cell Version
LLS-LSL60-D-NC	Dimm. and NEMA Cell

Dimensions

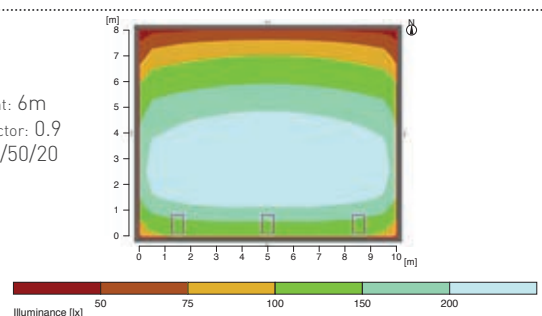


Colour Temperature

Day White
4200K

Performance

Lights: 3x93w
Luminaire Height: 6m
Maintenance Factor: 0.9
Reflectance: 70/50/20





LLS-7733-STR9

150W Street Lights

RoHS CE IP66

Applications



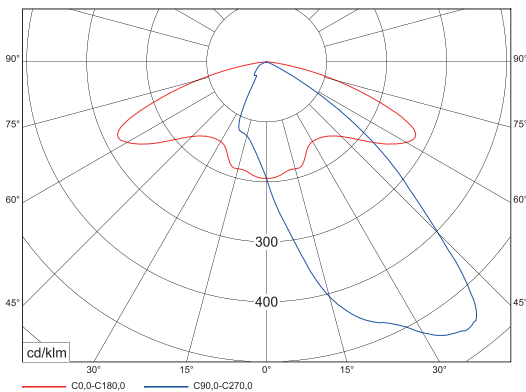
Characteristics of the light source

-80,000 hours	12700 lm	145 watts	95 lm/w
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Description

We have partnered with Grah to bring you this range of street lights. These are currently some of the most advanced LED street lights available on the world market. They are produced with high quality materials and meet the required standards for all quality and performance certificates.

Photometry



Mounting system:

- Mounts onto $\varnothing 60\text{mm}$ / $\varnothing 76\text{mm}$ lampposts
- Angle adjustable from -15° to 15°

NEMA Socket Option:

A standard connection with a variety of applications. Various products are available including part-night, automatic dimming/switching and smart lighting systems that allow remote monitoring and control.

Dimming Options:

- Analogue
- 1-10V
- DALI
- Step

EN 13201 Rating:

- ME4

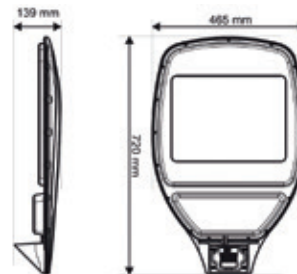
UMSUG Code

41 0134 0003 100

Type

Product Code	Description
LLS-LSL90	Street Light
LLS-LSL90-D	Dimmable Version
LLS-LSL90-NC	NEMA Cell Version
LLS-LSL90-D-NC	Dimm. and NEMA Cell

Dimensions



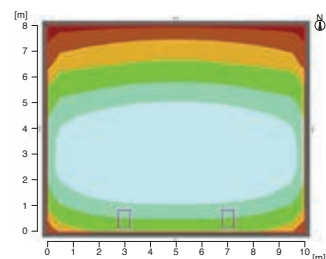
Colour Temperature

Day White

4200K

Performance

Lights: 2x145w
 Luminaire Height: 6m
 Maintenance Factor: 0.9
 Reflectance: 70/50/20





EMERGENCY LIGHTS



Characteristics of the light source

30,000 hours	100 lm	3.8 watts	26 lm/w	>75 CRI	PF 0.4	EM
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Characteristics of the light source

EM	PF 0.5	>75 CRI	87 lm/w	1 watt	87 lm	30,000 hours
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Emergency:

- 3 Hour Backup
- Maintained

Emergency:

- 3 Hour Backup
- Non-Maintained

Description

Our Emergency Bulkhead is a stylish, robust and functional product, that is suitable for installation within most commercial premises. Although a maintained product, this can easily be used as a non-maintained product to save time and money.

It has been designed with the installer in mind; it is simple to install with 20mm conduit entry guides to the rear and sides.

This product should be a direct replacement for the traditional 8W fluorescent bulkhead.

With an IP65 rating, it can also be used as a cost effective outside emergency light to ensure conformity to BS5266.

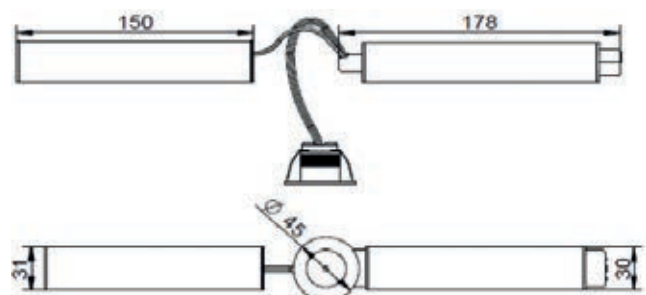
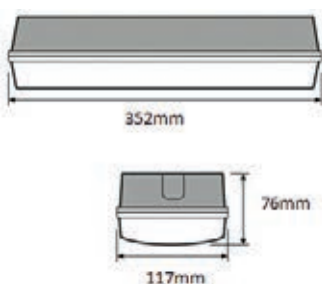
Description

Our Singulux emergency luminaire is a convenient solution to providing emergency lighting within a commercial environment. Our recessed solution is very compact and simple to install. This product has been designed not only to provide a functional emergency lighting solution, but also to give an aesthetically pleasing installation. This sleek design really shows what can be achieved with LEDs.

Type

Product Code	Description
LLS-SLEM	Singulux
LLS-BHEM	Emergency Bulkhead

Dimensions





FIXTURES AND ACCESSORIES

Mounting Frame Options:



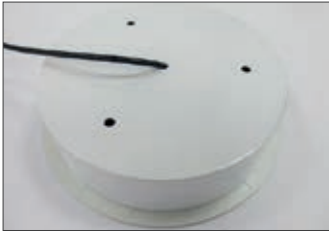
Metal

- Panels

Our metal mounting frames are designed for durability and ease of use. They can be fixed to most surfaces; simply fit the frame to the ceiling or wall, remove one side, slot the panel in and screw the side back into place.

- Round Lights

All of our round lights are pre-drilled ready for use with a mounting frame. The frames are easy to fit as only two screws are required. Frames are available in either white or silver.



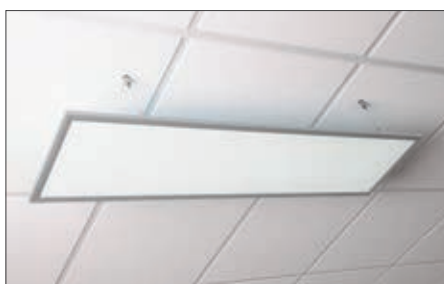
Wooden

We offer three different bespoke mounting frames for our Panel range, all of which are made in the UK. They are available in either oak, cherry or tulipwood; the latter option is primed, ready to paint. Like the metal frames, one side is removable for ease of installation.



Suspension Kits

All rectangular panels can be suspended from the ceiling rather than mounted using a frame; this method allows the panels to be hung at various heights for aesthetic or photometric design purposes.



Sensor Options:

We offer a wide range of sensors and control units to suit almost every need. The main benefits of these systems include:

- Reduced energy consumption and corresponding savings
- Extended lifetime of LEDs
- More comfortable working environments



We offer controllable lighting capable of switching between several programmed lighting combinations on demand.

The controller can also interact with various sensors and automatic systems.

Presence and Absence detection:

- Presence detection is where lighting switches on/off automatically with detection of movement
- Absence detection is where lights must be switched on manually and will turn off automatically if no movement is detected. The switch can also be used to turn the lights off.



Sensor Types:

- PIR. Passive Infrared sensors detect movement and body heat.
- Microwave sensors are very sensitive to movement and can have a wide activation area, they can also detect through glass.
- Lux level sensors can control light switching and dimming in response to changing light levels such as diurnal daylight variations.

Controllers, sensors and lights can be combined into small groups and systems for simple rules in rooms, for example turning the lights on if someone is there and there isn't enough natural light. More complex systems and larger groups can also be designed allowing for different control areas with both automated control and manual programming via a PC.

Drivers:

One of the key factors to consider when purchasing LED lighting is which driver to use to regulate the supply of power to the LEDs. Without the proper driver, the LED may become too hot and become unstable, causing poor performance or complete failure. At LightSense, we have worked long and

hard to establish a range of top quality drivers for supply with our luminaires to give great efficacy (lumens per circuit watt), temperature control and a high power factor to ensure consistent high performance over the lifetime of the LED and to extend the longevity of our luminaires.

The following driver options are available with our products:

Standard On/Off

Variable mA driver depending on product; has a simple switch on/off arrangement for situations where no dimming is required.

Switch Dim

This dimming solution ensures minimal changes to existing wiring are required and gives the end user total dimming control over the lighting arrangement. This option also has permanent memory against power failure, in order to reinstate the lighting when the power is restored.

Sensor Dim

This dimming solution offers great flexibility to the end user allowing for various sensors to be attached to drivers to control the state of the luminaire. This option is great for controlling your energy costs in busy commercial environments.

1-10 Volt

This fully flexible dimming solution will integrate with most 1-10v controllers. This is particularly good for integration within BMS systems.

1-10 Volt (with Switch Dim)

This fully flexible dimming solution will integrate with most 1-10v controllers. This is particularly good for integration within BMS systems. These units also have Switch Dim integrated to allow further flexibility.

DALI

DALI (Digital Addressable Lighting Interface) is an internationally recognised protocol for lighting control. Our fully flexible, addressable dimming solution can be integrated into any DALI environment and the LED drivers can be controlled individually using various systems.

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Emergency LED Driver

LightSense offer emergency converted drivers for integration with most LED luminaires. Connecting this driver to an existing fitting allows for 3 hours battery backup for emergency operation. This unit will automatically regulate the power of the fitting to ensure optimum performance of the battery and the luminaire.



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WEBSITE

- LED | **PANELS**
- LED | **LINEAR LIGHTS**
- LED | **ROUND LIGHTS**
- LED | **SPOTLIGHTS**
- LED | **DOWNLIGHTS**
- LED | **HIGH BAYS**
- LED | **BULKHEADS**
- LED | **NON-CORROSIVES**
- LED | **FLOODLIGHTS**
- LED | **STREET LIGHTS**
- LED | **EMERGENCY LIGHTS**
- LED | **FIXTURES & ACCESSORIES**

we make light, we make sense.



LightSense[®]

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