



CARBON8
LIGHTING

**LED LIGHT FITTING
CATALOGUE**

**Tel: 01256 300031 E-mail: sales@carbon8lighting.co.uk
www.carbon8lighting.co.uk**

Carbon8lighting is a division of Taran Microsystems Limited, a UK company since 1992. Company reg number 2751845

CARBON8 LIGHTING

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SUITABILITY CHART

	CL - Canopy Lights	Ex - Explosion Proof Flood	FL - Discus Floodlight	FL - High Performance Flood	HB - Discus Gen2	HB - Javelin Linear	PL - Panel Lights	SL - Street Light	VP - Vapour Proof
12V		•	•						
Airport Apron		•	•	•				•	•
Airport Hangar	•	•	•	•	•	•	•		•
Aisle Lighting			•	•		•			
Architectural			•	•					
Building Sites		•	•	•					•
Canopy Lighting	•				•	•	•		•
Car Park - Open Area		•	•	•				•	•
Car Park - Multi Story	•	•	•	•	•	•	•		•
Cold Storage	•		•	•	•	•	•		•
Corridor			•			•	•		•
Dimming Control Option	•		•	•	•	•	•	•	
Dockside Lighting		•	•	•					•
Emergency	•		•	•	•	•	•	•	
Explosion Proof (ATEX)		•							
Factory	•	•	•	•	•	•	•		•
Farm Buildings		•	•	•	•				•
Food Production	•		•	•	•	•	•		•
Football Ground			•	•					
Forecourt Lighting	•	•	•	•	•	•			•
Freezer Rooms	•	•	•	•	•		•		•
Hazardous Area (ATEX)		•							
High Bay			•		•	•			
Hospital	•		•	•	•	•	•	•	•
Low Bay	•		•		•	•	•		•
Mobile Lighting		•	•	•	•				•
Office					•		•		•
Oil and Gas	•	•	•	•	•				•
Pallet Storage	•		•		•	•	•		•
Petrol Station	•	•	•	•	•	•	•		•
Rest / Common Staff Area							•		•
Retail	•		•		•		•		•
Road Lighting		•	•	•				•	
School	•		•	•	•		•	•	•
Security Lighting		•	•	•					
Sensor Control Option	•		•	•	•	•			•
Sports Facility			•	•	•			•	•
Sports Ground - Outdoor			•	•					
Spot Lighting (Projection)				•					
Street Lighting			•	•				•	
Swimming Pool Indoor/Outdoor			•	•	•				•
Temporary Buildings		•	•		•				•
Tunnel Lighting	•	•	•	•	•	•			•
Warehouse	•	•	•	•	•	•			•
Yard Lighting		•	•	•				•	•

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CARBON8LIGHTING WARRANTY

	CL - Canopy Lights	Ex - Explosion Proof Flood	FL - High Performance Flood	FL - Discus Floodlight	HB - Discus Gen2	HB - Javelin Linear	PL - Panel Lights	SL - Street Light	VP - Vapour Proof
3 Year Return Repair Replace		•						•	
5 Year Return Repair Replace									
5 Year Premium Care Warranty	•		•	•	•	•	•		•

Note: The above are the standard warranties offered. All warranties can be tailored to suit individual customer requirement.

3 Year Return Repair Replace Warranty

Our standard 3 year warranty. Should a fitting fail during the 3 year warranty period, it should be returned to Carbon8lighting where it will be repaired or replaced, and returned back to you at Carbon8Lightings cost.

5 Year Return Repair Replace Warranty

Our standard 5 year warranty. Should a fitting fail during the 5 year warranty period, it should be returned to Carbon8lighting where it will be repaired or replaced, and returned back to you at Carbon8Lightings cost.

5 Year Premier Care Warranty

Carbon8Lightings unique 5 Year Premier Care Warranty offers customers assurance that, once a fitting is purchased and installed, there will be no surprise costs throughout the 5 year warranty. Should a Diamond Care product fail at any point during the 5 year warranty, a replacement fitting will be sent to site in advance, and once exchanged, Carbon8Lighting will come and collect the failed fitting. In addition, Carbon8Lighting will provide up to £250+VAT towards the cost of exchange of any failed fitting.



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ABOUT US

Carbon8Lighting is an award winning manufacturer of ultra-high performance LED light fittings designed specifically for the commercial/industrial sectors.

Established in 2011, Carbon8Lighting is the lighting division/brand of computing group, Taran Microsystems Limited.

How Carbon8Lighting came about was not exactly conventional. Born out of an interest in LED sparked by two passions, Scuba diving and riding Enduro motorcycles, two brothers/directors that own Taran, discovered the diverse potential of LED technology was clear to see. Both sports can be dramatically enhanced with the addition of high quality, reliable lighting and nothing compares to LED.

Initially taking existing light fitting designs and assembling these with carefully selected electronic components it became clear to Carbon8 that there was still great potential for product development in the fast emerging LED lighting market.

Taking past knowledge from its IT parent brought interesting developments and concepts such as passive liquid cooling and the introduction of ultra-stable long chain silicon heat sink compound used during the assembly of high performance computers.

It was in 2014 that Carbon8, in collaboration with its development partners, took the huge step of designing a totally new high bay fitting. The revolutionary, and now market leading, Discus LED High Bay fitting was born.

The Discus High Bay set new standards in a host of areas. Performance put it in a class of its own. Running extremely cool ensured that the Discus High Bay was more stable and reliable than any LED high bay available. Ingenuity in design meant that the Discus was simple to assemble, saving costs and further enhancing reliability.

Today Carbon8Lighting continues to lead the LED lighting market, offering a wide range of high quality, ultra-high performance LED light fittings to meet the most demanding commercial and industrial lighting demands. Carbon8 fittings illuminate everything from airport aprons to sports stadiums, car parks to offices and distribution warehouses to commercial freezers.

Carbon8lighting is far more than just a light fitting designer and manufacturer, offering complete end to end lighting project support, from site surveying and conception design all the way through to installation and commissioning. Carbon8 provides prospective clients with a range of comprehensive information and reporting to assist with the decision making process for a lighting project.

Additional services include tailoring fittings to individual project requirements and offering a competitive range of financing packages.

As a Carbon Trust Accredited Supplier, Carbon8Lighting is able to offer clients a range of government backed grants to assist with the cost of purchasing energy saving lighting. All Carbon8lighting fittings meet the UK Governments Energy Technology List criteria meaning that they can be included for schemes such as the Enhanced Capital Allowance tax scheme.

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CARBON8 LIGHTING

DISCUS FLOODLIGHT

The Carbon8Lighting Discus LED Floodlight is a unique design that offers an unparalleled combination of performance, quality and flexibility.

With a choice of five unique precision lenses that have been specifically designed for the Discus Floodlight, light output is guided to exactly where it's required. In doing this the Discus Floodlight maximises efficacy while minimising secondary glare and light pollution.

The Discus Floodlight range sits perfectly alongside Carbon8Lighting's hugely successful Discus LED High Bay and Javelin 2 Linear High Bay ranges, combining to offer total lighting solutions for warehouse, factory and retail applications, indoor and out.



The Discus Floodlight range is covered by Carbon8Lighting's **unique 5 Year Premier Care Warranty**. Very rarely, even a Carbon8 fitting can become faulty. Should this happen at any point during the 5 year warranty, Carbon8 will send an advance replacement fitting to site, pay up to £250+VAT towards the exchange and collect the swapped fitting from site. As well as minimising down time, this unique warranty reassures customers investing in the Discus Floodlight that there will be no hidden cost of ownership.



TECHNICAL SPECIFICATIONS

DESCRIPTION: Discus Floodlight **RECOMMENDED PRODUCT LOCATION:** All locations, indoors and out

PRODUCT DETAILS	
Case Material	Cast Aluminium/Polycarbonate
Voltage	100-305 VAC 50/60Hz
IP Rating	IP65
Typical Lumens per Watt	130
Colour Rendering	>70 (>80 available special order)
LED Module	3030
Beam angle	30x30, 60x60, 90x90, 40x150, 85x90
Operating Temperature	-25° to +40°
Warranty	5 year Premier Care
Colour Temperature	5000k (4000k & 6500k available special order)
Power Factor	>0.90
Driver	Meanwell

OPTIONS	
Occupancy Sensor	✓
Light level sensor	✓
Remote Programmable Sensor	Available special order
Dimming Control	Available special order
Polycarbonate front	Fitted as standard
RGB	N/A
12/24v DC	N/A
Emergency	✓



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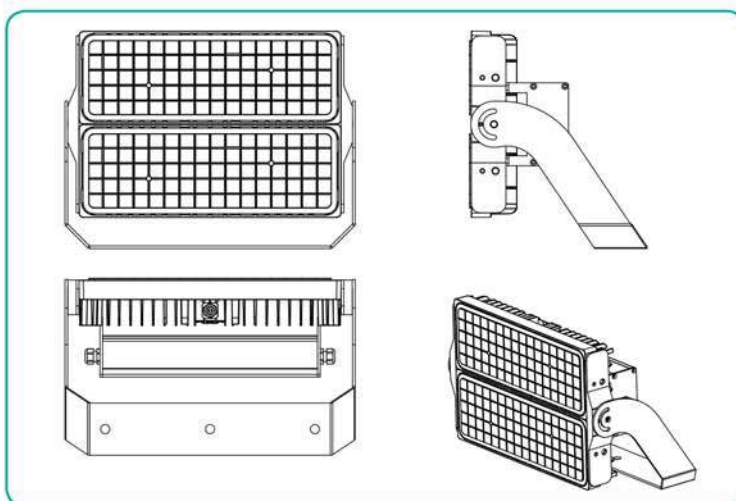
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DISCUS FLOODLIGHT

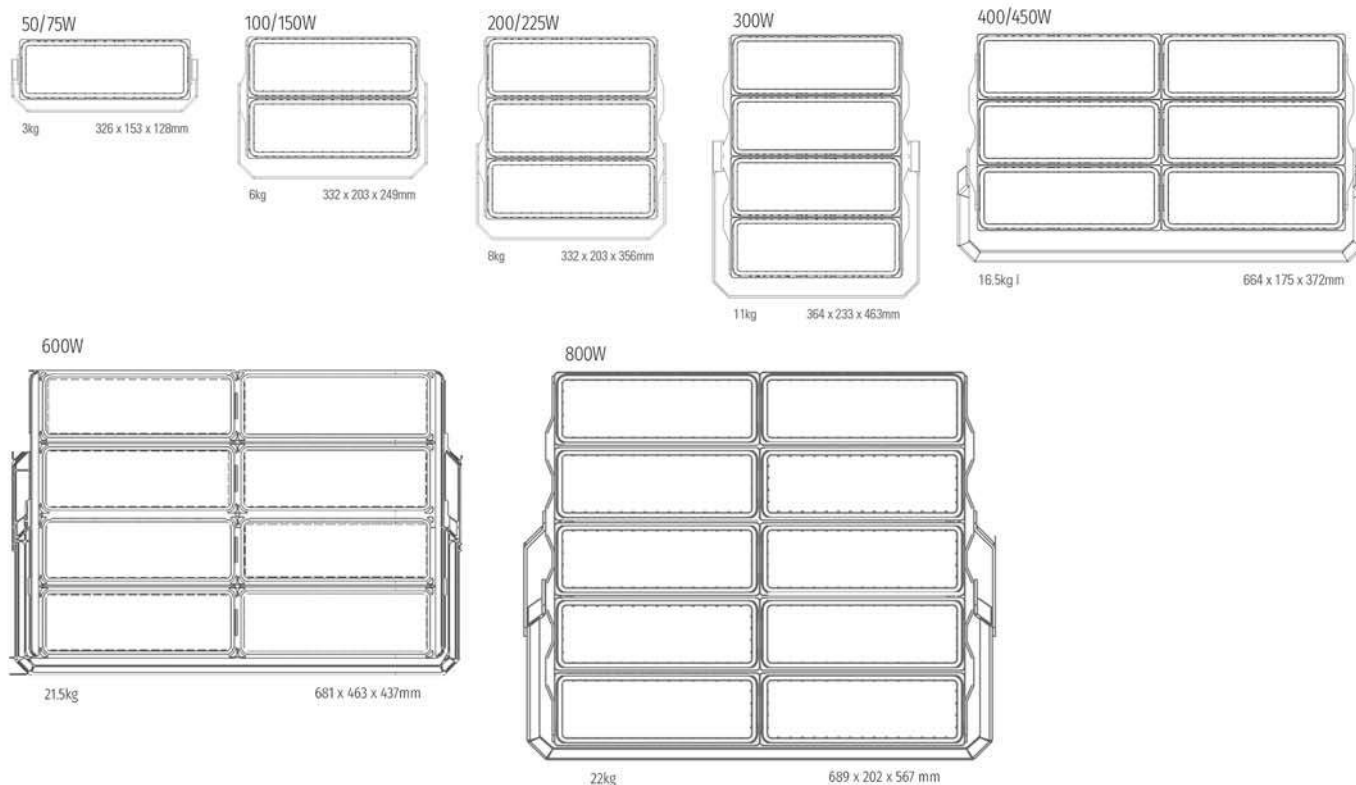
PERFORMANCE CHART

WATTAGE	W CONSUMPTION	TYPICAL LUMENS
50W	55	7260
75W	80	9600
100W	103	13575
150W	150	19800
200W	220	29040
300W	300	39600
400W	440	54444
600W	640	81037
800W	880	105600

DIAGRAM OF DISCUS FLOODLIGHT (100W)



WEIGHT & DIMENSIONS



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CARBON8 LIGHTING

DISCUS GEN2 LED HIGH BAY

Ultra-efficient and market leading, the Discus Gen2 is an evolution of Carbon8 Lighting's highly successful Discus LED High Bay. The Discus Gen 2 is specifically tailored for lighting large areas such as warehouses and factories, inside and out.

The Discus Gen2 replaces conventional sodium and metal halide fittings, consuming a fraction of the energy and eliminating expensive lamp replacement and maintenance.

Competitively priced and with unparalleled performance of in excess of 160 lumens per watt, the Discus Gen2 offers unrivalled value for money and impressive return on investment figures.

The Discus Gen2 range combines high quality materials, leading edge technology and intelligent design to produce a robust and reliable light fitting that is IP65 rated and can operate in the harshest environments.



The Discus Gen2 range is covered by Carbon8 Lighting's **unique 5 Year Premier Care Warranty**. Very rarely, even a Carbon8 fitting can become faulty. Should this happen at any point during the 5 year warranty, Carbon8 will send an advance replacement fitting to site, pay up to £250+VAT towards the exchange and collect the swapped fitting from site. As well as minimising down time, this unique warranty reassures customers investing in the Discus Gen2 that there will be no hidden cost of ownership.



TECHNICAL SPECIFICATIONS

DESCRIPTION: Discus Gen2 LED High Bay **RECOMMENDED PRODUCT LOCATION:** Warehouse / Factory / Retail / Exterior

PRODUCT DETAILS	
Voltage	120-277 VAC 50/60Hz
IP Rating	IP65
Typical Lumens per Watt	160lm/W
Colour Rendering	>70 (>80 available special order)
LED Module	Philips/Osram
Beam angle	120°
Operating Temperature	-25° to +40°
Warranty	5 year Premier Care
Colour Temperature	5000k (4000k & 6500k available special order)
Power Factor	>0.90
Dimming Control	0-10V Standard (DALI available special order)
Driver	Meanwell

OPTIONS	
Occupancy Sensor	✓
Light level sensor	✓
Remote Programmable Sensor	✓
Polycarbonate front	Fitted as standard
RGB	N/A
12-24v	N/A
Emergency	✓
Fixed Bracket Mounting	✓



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CARBON8 LIGHTING

DISCUS GEN2 LED HIGH BAY

PERFORMANCE CHART

LED POWER	CIRCUIT WATTS	TYPICAL LUMENS
70W	77	12320
90W	100	16000
120W	130	20800
150W	160	25600
200W	210	33600

WEIGHT & DIMENSIONS

70W 3.6kg | Ø320mm



90W 3.6kg | Ø320mm



120W 3.6kg | Ø320mm



150W 5.6kg | Ø430mm



200W 6.2kg | Ø430mm



DIAGRAM OF DISCUS GEN2 (70-120W)

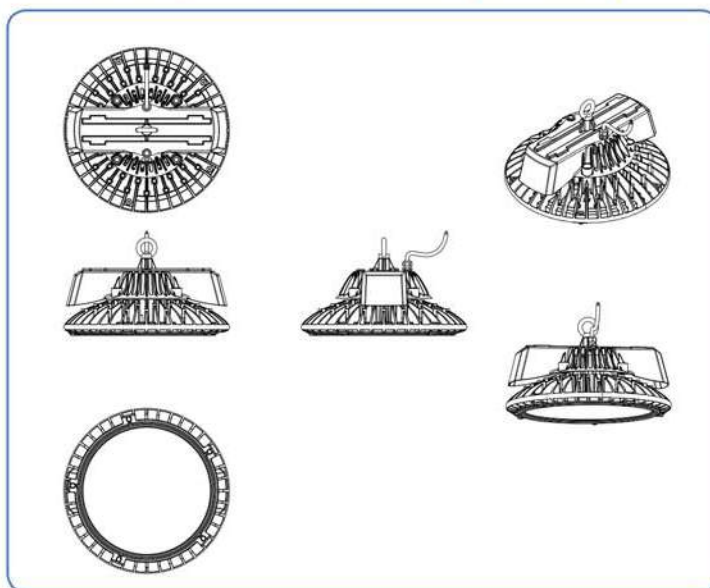
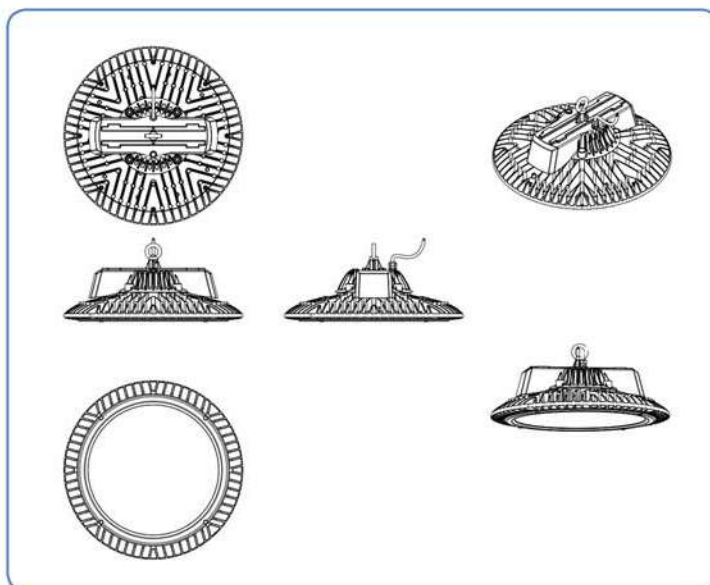


DIAGRAM OF DISCUS GEN2 (150W-220W)



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CARBON8 LIGHTING

JAVELIN3

Specifically designed for lighting aisles, the new innovative Javelin3 from Carbon8Lighting Offers the same high quality components as the Discus range, offering an unparalleled performance quality and flexibility. With a choice of unique precision lances that have been specifically designed, light output is placed exactly where you need it, minimising on any light pollution or secondary glare.

Our newest and latest edition of light quality, high output fitting, sits along perfectly alongside Carbon8Lighting's hugely successful, Discus and Javelin2 LED ranges, combining to offer total lighting solutions for warehouse, factory and retail applications and solutions indoor and out.



The Javelin3 range is covered by Carbon8Lighting's unique 5Year Premier Care Warranty. Very rarely, even a Carbon8 fitting can become faulty. Should this happen at any point during the 5 year warranty, Carbon8 will send an advance replacement fitting to site, pay up to £250+VAT towards the exchange and collect the swapped fitting from site. As well as minimising down time, this unique warranty reassures customers investing in the Javelin3 that there will be no hidden cost of ownership.



TECHNICAL SPECIFICATIONS

DESCRIPTION: Javelin3

RECOMMENDED LOCATION: Industrial and fridge/freezer applications

PRODUCT DETAILS	
Case Material	DIE CAST ALUMINIUM
Voltage	100-305AC
IP Rating	IP65
Typical Lumens per Watt	130 lm/w
Colour Rendering	>70 or >80 available
LED Module	Philips Luxeon 3030
Operating Temperature	-40°C to +40°C
Warranty	5 year Premier Care
Colour Temperature	5000k (4000k & 6000K available)
Power Factor	0.9
Driver	Meanwell
Lens Materials	Polycarbonate
Cable	Arctic cable

OPTIONS	
Built in PIR	N/A
Built in photocell	N/A
RGB red, green, blue LED	N/A
12-24v	N/A
Emergency	✓
Dimmable	✓
Casing colour choice	✓



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PERFORMANCE CHART

WATTAGE	W CONSUMPTION	TYPICAL LUMENS
50W	55	7260
75W	80	9600
100W	103	13575
150W	150	19800
200W	220	29040
300W	330	39600
400W	440	52800

WEIGHTS



DIAGRAM OF 50W

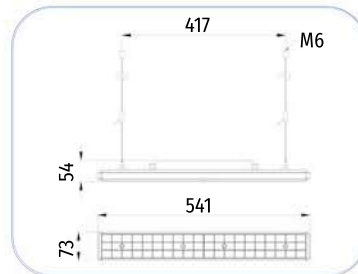


DIAGRAM OF 75W

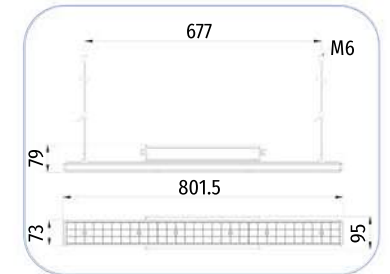


DIAGRAM OF 100W

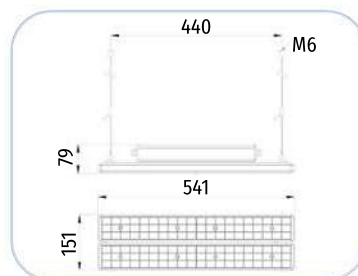


DIAGRAM OF 150W

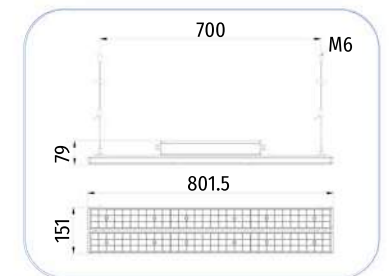


DIAGRAM OF 200W

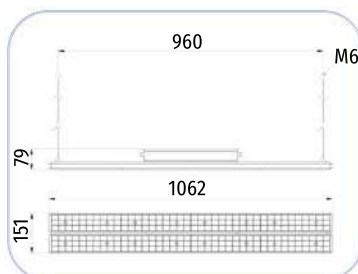


DIAGRAM OF 300W

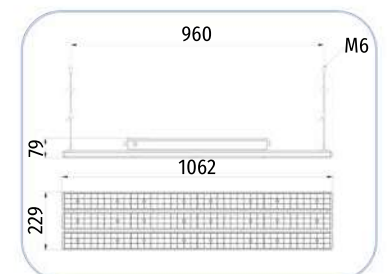
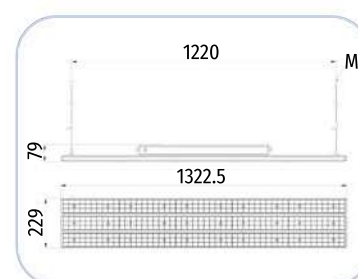


DIAGRAM OF 400W



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CARBON8 LIGHTING



Designed specifically with Temperature Controlled environment in mind, the new innovative Discus Zero fitting from Carbon8lighting offers the same high quality components as the Discus Gen2 range, offering an unparalleled performance quality and flexibility.

The Discus range replaces conventional sodium and metal halide fittings, consuming a fraction of the energy and eliminating expensive lamp replacement and maintenance.

Competitively priced and with performance of in excess of 160 lumens per watt, the Discus Zero offers unrivalled value for money and impressive return on investment.

The Discus Zero range combines high quality materials, leading edge technology and intelligent design to produce a robust and reliable light fitting that is IP65 rated and can operate in the harshest environments.



The Discus Gen2 range is covered by Carbon8lighting's unique 5 Year Premier Care Warranty. Very rarely, even a Carbon8 fitting can become faulty. Should this happen at any point during the 5 year warranty, Carbon8 will send an advance replacement fitting to site, pay up to £250+VAT towards the exchange and collect the swapped fitting from site. As well as minimising down time, this unique warranty reassures customers investing in the Discus Gen2 that there will be no hidden cost of ownership.



TECHNICAL SPECIFICATIONS

DESCRIPTION: Discus Zero

RECOMMENDED LOCATION: Industrial and fridge/freezer applications

PRODUCT DETAILS	
Case Material	DIE CAST ALUMINIUM
Voltage	100-305AC
IP Rating	IP65
Typical Lumens per Watt	160lm/w
Colour Rendering	>70 or >80 available
LED Module	Philips Luxeon 3030
Operating Temperature	-40°C to +40°C
Warranty	5 year Premier Care
Colour Temperature	5000k (4000k & 6000K available)
Power Factor	0.9
Driver	Meanwell
Lens Materials	Polycarbonate
Cable	Arctic cable

OPTIONS	
Occupancy sensor	✓
Light level sensor	✓
Remote programmable sensor	✓
Polycarbonate front	Fitted as standard
RGB	✓
12-24v	✓
Emergency	✓
Fixed bracket mount	✓



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CARBON8 LIGHTING

DISCUS zero

PERFORMANCE CHART

LED POWER	CIRCUIT WATTS	TYPICAL LUMENS
70W	77	12320
90W	100	16000
120W	130	20800
150W	160	25600
200W	210	33600

WEIGHT & DIMENSIONS

70W 5.5kg | Ø320mm



90W 5.5kg | Ø320mm



120W 5.5kg | Ø320mm



150W 7.5kg | Ø430mm



200W 7.5kg | Ø430mm



DIAGRAM OF DISCUS ZERO (70W, 90W, 120W)

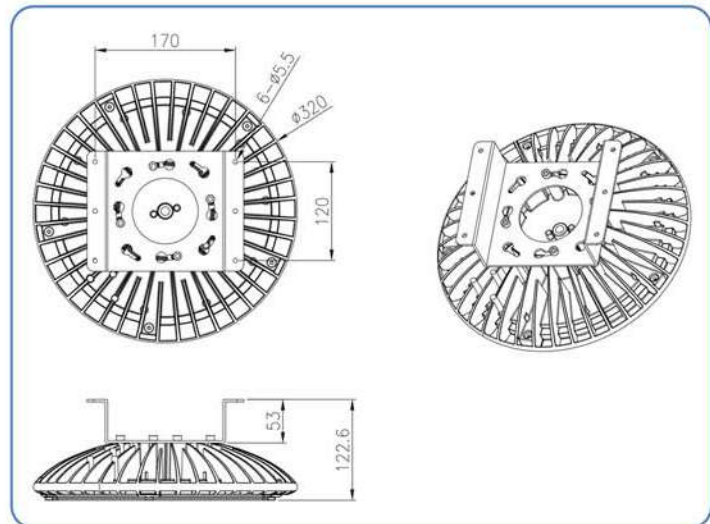
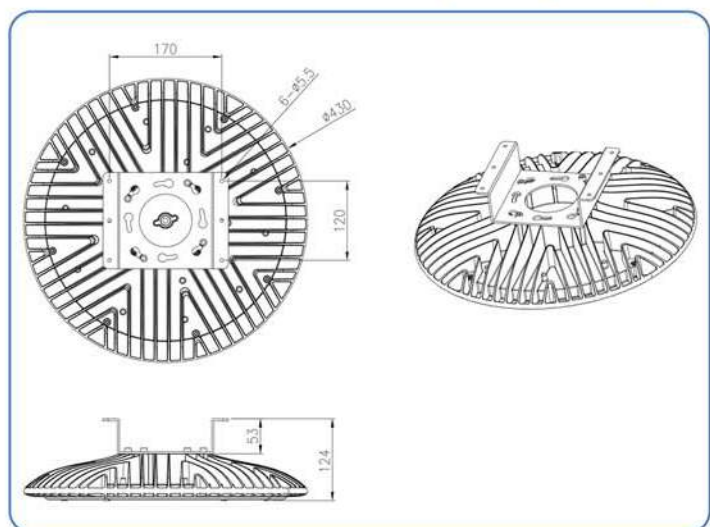


DIAGRAM OF DISCUS ZERO (150W, 200W)



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CARBON8 LIGHTING

JAVELINzero

Designed specifically with Temperature Controlled environments in mind, the new innovative MHB Linear Fitting from Carbon8Lighting Offers the same high quality components as the Discus range, offering an unparalleled performance quality and flexibility. With a choice of unique precision lenses that have been specifically designed, light output is placed exactly where you need it, minimising on any light pollution or secondary glare.

Our newest and latest edition of high quality, high output fitting, sits perfectly alongside Carbon8Lighting's hugely successful, Discus and Javelin2 LED ranges, combining to offer total lighting solutions for warehouse, factory and retail applications and solutions indoor and out.



The Javelin Zero range is covered by Carbon8Lighting's **unique 5 Year Premier Care Warranty**. Very rarely, even a Carbon8 fitting can become faulty. Should this happen at any point during the 5 year warranty, Carbon8 will send an advance replacement fitting to site, pay up to £250+VAT towards the exchange and collect the swapped fitting from site. As well as minimising down time, this unique warranty reassures customers investing in the Javelin Zero that there will be no hidden cost of ownership.



TECHNICAL SPECIFICATIONS

DESCRIPTION: MHB Linear IP65

RECOMMENDED PRODUCT LOCATION: Industrial and fridge/freezer applications

PRODUCT DETAILS	
Case Material	DIE CAST ALUMINIUM
Voltage	100-305AC
IP Rating	IP65
Typical Lumens per Watt	130 lm/w
Colour Rendering	>70 or >80 available
LED Module	Philips Luxeon 3030
Beam angle	30x30°, 60x60°, 90x90°, 30x100°, 140x140°
Operating Temperature	-40°C to +40°C
Warranty	5 year Premier Care
Colour Temperature	5000k (4000k & 6000K available)
Power Factor	0.9
Driver	Meanwell
Lens Materials	Polycarbonate
Cable	Arctic cable

OPTIONS	
Occupancy sensor	✓
Light level sensor	✓
Remote programmable sensor	✓
Polycarbonate front	Fitted as standard
RGB	✓
12-24v	✓
Emergency	✓
Fixed bracket mount	✓



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CARBON8 LIGHTING

JAVELINzero

PERFORMANCE CHART

WATTAGE	W CONSUMPTION	TYPICAL LUMENS
50W	50W	7100
75W	75W	9600
100W	100W	14300
150W	150W	21400
200W	200W	26800
300W	300W	39600
400W	400W	57000

DIMENSIONS

DIAGRAM OF JAVELIN ZERO (50W, 75W)

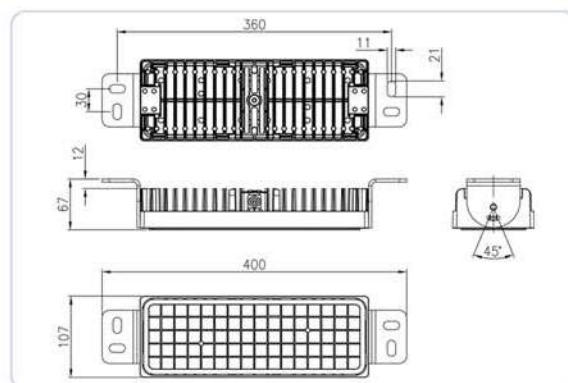


DIAGRAM OF JAVELIN ZERO (100W, 150W)

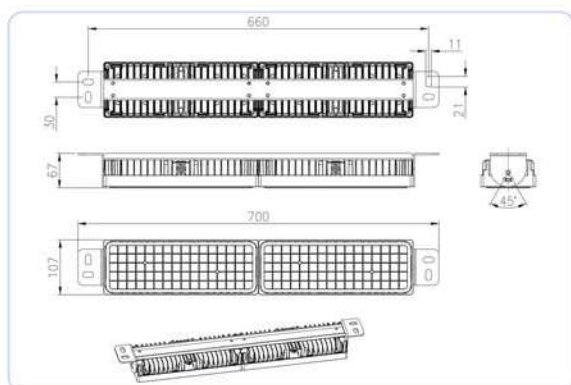


DIAGRAM OF JAVELIN ZERO (150W, 200W)

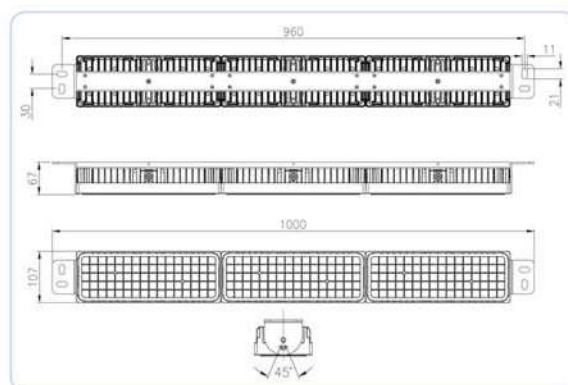


DIAGRAM OF JAVELIN ZERO (300W)

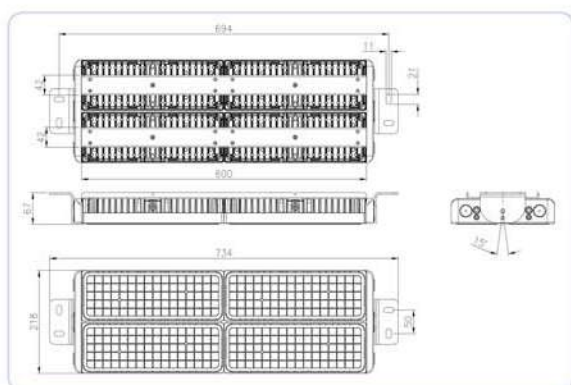
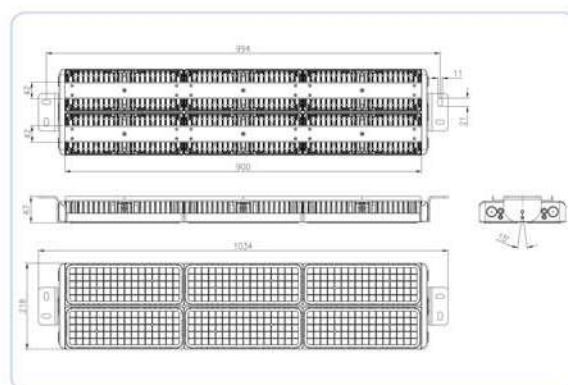


DIAGRAM OF JAVELIN ZERO (400W)



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CARBON8 LIGHTING

ROUND LED PANEL

The Carbon8Lighting Round LED Panel offers excellent performance matched with superb reliability.

Ease of installation and exceedingly low maintenance make the Carbon8Lighting Round LED Panel the ideal choice for new or retrofit installation.



The smooth aluminium bezel and textured light diffuser give a sleek stylish finish and superb even light dispersal making this fitting ideal for a broad range of retail and office environments.

Options include a choice of colour temperature, mains dimming and emergency version.

TECHNICAL SPECIFICATIONS

PRODUCT SPECIFICATIONS	
Voltage Range	100-240 V AC
Case Material	Aluminum 6063-T5
IP Rating	IP40
Typical Lumens	753
Colour Rendering	80
Beam Angle	120°
Operating Temperature	-20~+40°C
Warranty	3 Years
Colour Temperature	3000K - 6000K
Power Factor	>0.9

OPTIONS	
Built in PIR	
Built in Photocell	
Polycarbonate Front	
RGB Red Green Blue LED	
12-24v	
Emergency	✓
Dimmable	✓
Casing Colour Choice	



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CARBON8 LIGHTING

ROUND LED PANEL

PERFORMANCE CHART

LED POWER	CIRCUIT WATTS	TYPICAL LUMENS
10W	11W	1012
18W	19W	1748

WEIGHT & DIMENSIONS

10W 0.5 kg | 160 mm



18W 0.7 kg | 220 mm



DIAGRAM OF 10W 18CM ROUND LED PANEL

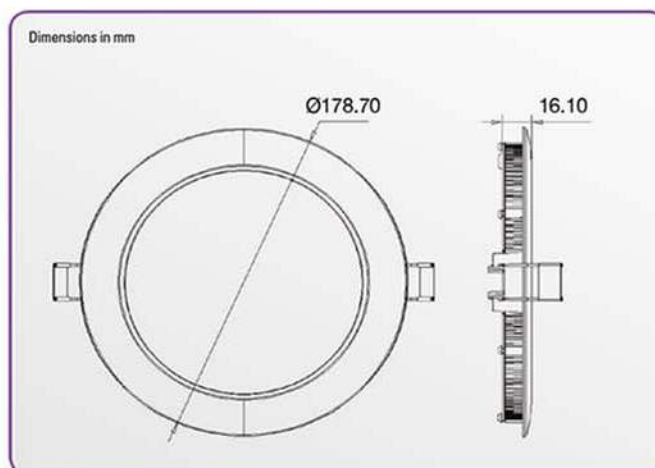
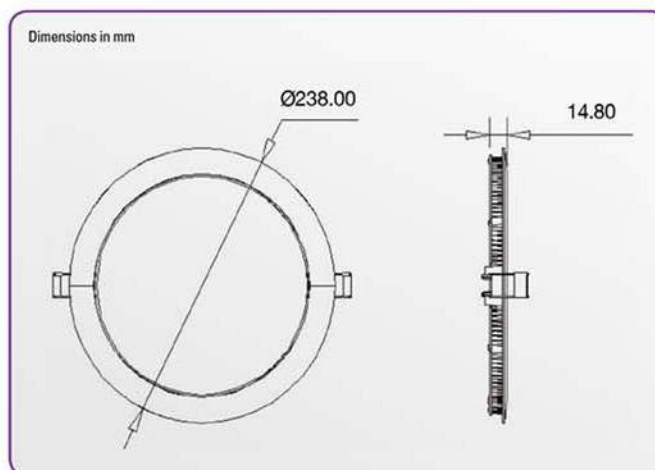


DIAGRAM OF 18W 24CM ROUND LED PANEL



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CARBON8 LIGHTING

LED PANEL

The Carbon8Lighting LED Panel offers excellent performance matched with superb reliability.

Ease of installation and exceedingly low maintenance make the Carbon8Lighting LED Panel the ideal choice for new or retrofit installation.



The slim aluminium bezel and textured light diffuser give a sleek stylish finish and superb even light dispersal making this fitting ideal for a broad range of retail and office environments.

Options include a choice of colour temperature, mains dimming and emergency version.

TECHNICAL SPECIFICATIONS

PRODUCT SPECIFICATIONS	
Voltage Range	100-240 V AC
Case Material	Aluminum 6063-T5
IP Rating	IP40
Colour Rendering	80
Beam Angle	120°
Operating Temperature	-20~+40°C
Warranty	5 Years
Colour Temperature	3000K - 6000K
Power Factor	>0.9

OPTIONS	
Built in PIR	
Built in Photocell	
Polycarbonate Front	
RGB Red Green Blue LED	
12-24v	
Emergency	✓
Dimmable	✓
Casing Colour Choice	



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CARBON8 LIGHTING

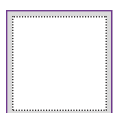
LED PANEL

PERFORMANCE CHART

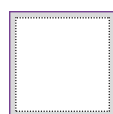
LED POWER	CIRCUIT WATTS	TYPICAL LUMENS
18W (300X300)	19W	1786
36W (600X600)	38W	3767
36W (1200X300)	38W	3543
72W (1200X600)	75W	7654

WEIGHT

18W (300X300) 2 kg



36W (600X600) 3.6 kg



36W (1200X300) 6 kg



72W (1200X600) 8 kg



DIAGRAM OF 18W 300x300 LED PANEL

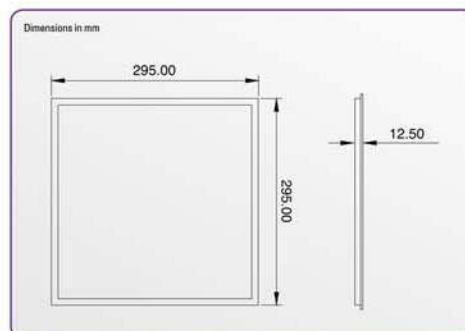


DIAGRAM OF 36W 600x600 LED PANEL

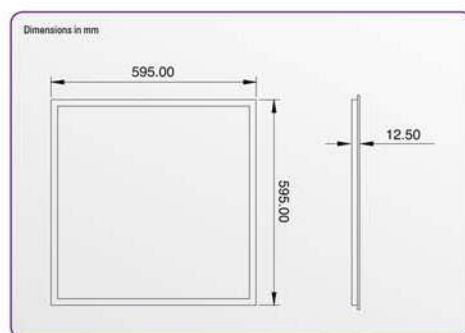


DIAGRAM OF 36W 1200x300 LED PANEL

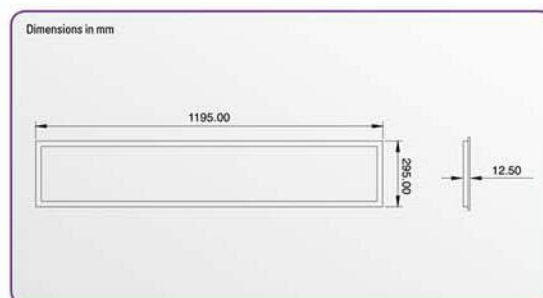
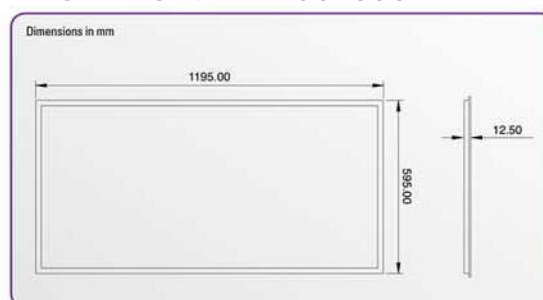


DIAGRAM OF 72W 1200x600 LED PANEL



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CARBON8 LIGHTING

DISCUS STREETLIGHT

Market leading and Ultra-efficient the Discus Streetlight has a choice of symmetric and asymmetric precision lenses to ensure that the light directs to exactly where it's needed. In doing this the Discus Streetlight maximises efficacy while minimising secondary glare and light pollution.

The flexible head is adjustable through 180 degrees and the fitting comes with a choice of column mounting options meaning it is the ideal choice for a wide range of street lighting and car park lighting applications.

Optional daylight sensing offers even greater energy saving, ensuring that the light fitting is on only when it is needed. The LED Discus Streetlight offers outstanding combination of performance, quality and flexibility.



The Discus Streetlight range is covered by Carbon8 Lighting's **unique 5 Year Premier Care Warranty**. Very rarely, even a Carbon8 fitting can become faulty. Should this happen at any point during the 5 year warranty, Carbon8 will send an advance replacement fitting to site, pay up to £250+VAT towards the exchange and collect the swapped fitting from site. As well as minimising down time, this unique warranty reassures customers investing in the Discus Streetlight that there will be no hidden cost of ownership.



TECHNICAL SPECIFICATIONS

DESCRIPTION: Discus Streetlight **RECOMMENDED PRODUCT LOCATION:** Street lighting, car parks

PRODUCT DETAILS	
Case Material	POWDER COATED DIE CAST ALUMINIUM
Voltage	90-305AC
IP Rating	IP65
Typical Lumens per Watt	Up to 132lm/W
Colour Rendering	ra>70
LED Module	Philips Luxeon 3030
Beam angle	150x70°, 130x70°, 150x150°
Operating Temperature	-40 to +50°C
Warranty	5 year Premier Care
Colour Temperature	5000k as standard (4000k & 6500k available)
Power Factor	0.95
Driver	Meanwell

OPTIONS	
Built in PIR	
Built in photocell	✓
Polycarbonate front	
RGB red, green, blue LED	
12-24v	✓
Emergency	
Dimmable	✓
Casing colour choice	✓



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CARBON8 LIGHTING

DISCUS STREETLIGHT

PERFORMANCE CHART

WATTAGE	W CONSUMPTION	TYPICAL LUMENS
75W	75	10181
110W	112	14258
150W	150	18244
180W	182	24104
225W	224	28488
265W	263	32457

WEIGHT & DIMENSIONS

75W 6.75kg, 560x278x75



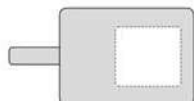
110W 6.75kg, 560x278x75



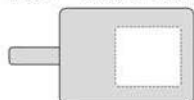
150W 6.75kg, 560x278x75



1800W 9.35, 637x350x75



225W 9.35kg, 637x350x75



265W 9.35kg, 637x350x75



DIAGRAM OF DISCUS STREETLIGHT (75-150W)

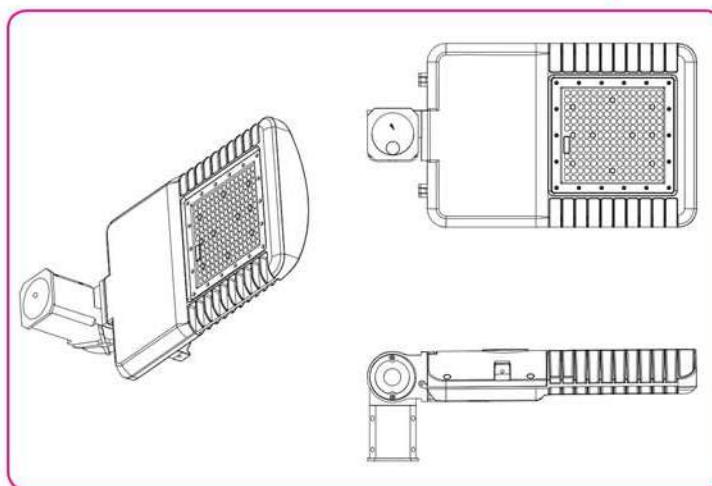
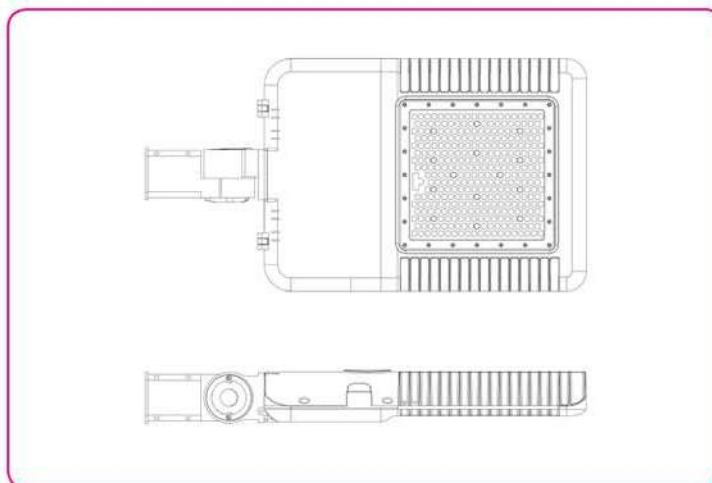


DIAGRAM OF DISCUS STREETLIGHT (180-265W)



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ALUMINIUM LED VAPOUR PROOF

The Carbon8Lighting Aluminium Vapour Proof Fitting offers superb value, combining excellent performance with rugged reliability.

Constructed using high grade anodised aluminium and polycarbonate, the IP65 rated fitting is stylish, robust and practical. Internally, the high performance LED chips are powered using an industry leading Meanwell driver to produce up to 130 lumens per watt.

Amongst the available options is a fully integrated microwave occupancy sensor and integrated EM3 maintained emergency, making for simple and fast installation.



The Aluminium Vapour Proof range is covered by Carbon8Lighting's unique Premier Care Warranty – 5 Year on the standard fittings and 3 Year on fittings with EM3 Emergency. Extremely rarely, even a Carbon8 fitting can present a fault. Should this happen at any point during the warranty period, Carbon8 will send an advance replacement fitting to site, pay up to £250+VAT towards the exchange and collect the swapped fitting from site. As well as minimising down time, this unique warranty reassures customers investing in Carbon8 fittings, that there will be no hidden cost of ownership.



TECHNICAL SPECIFICATIONS

DESCRIPTION: Vapour proof **RECOMMENDED PRODUCT LOCATION:** Warehouse and office applications

PRODUCT DETAILS	
Case material	Aluminium+PC
Voltage	200-240V AC
IP Rating	IP65
Colour Rendering	>80
Beam Angle	120°
Operating Temperature	-20°C to +40°C
Warranty	5 year Premier Care (3 year on EM3)
Colour Temperature	5000K as standard
Power factor	>0.95
Driver	Meanwell
Typical lumens per watt	130 lm/W

OPTIONS	
Built in PIR	N/A
Built in microwave sensor	✓
Polycarbonate front	✓
12-24v	✓
Emergency	✓
Dimmable	✓
Casing colour choice	N/A
Self test emergency	Special order



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ALUMINIUM LED VAPOUR PROOF

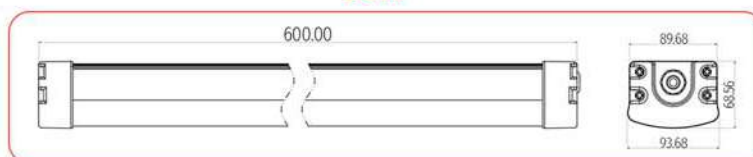
PERFORMANCE CHART

LED POWER	CIRCUIT WATTS	TYPICAL LUMENS
20W 600mm	19	2445
* 30W 600mm	29	3992
40W 1200mm	36	5022
50W 1500mm	48	6375
* 60W 1500mm	58	7597

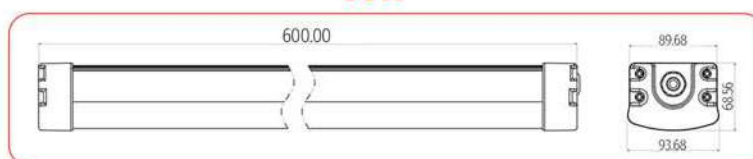
WEIGHT AND DIMENSIONS

600mm 20W	1.5kg	600x94x69
600mm 30W*	1.5kg	600x94x69
1200mm 40W	2.5kg	1200x94x69
1500mm 50W	3kg	1500x94x69
1500mm 60W*	3kg	1500x94x69

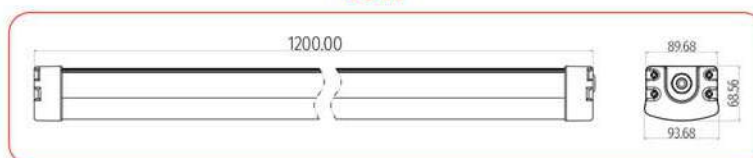
20W



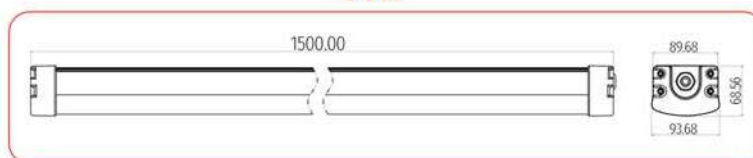
30W*



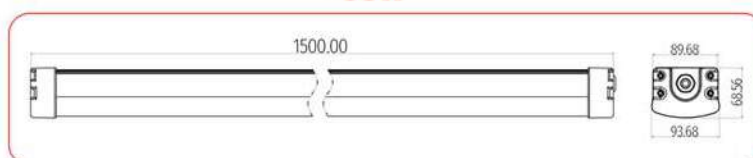
40W



50W



60W*



* special order item

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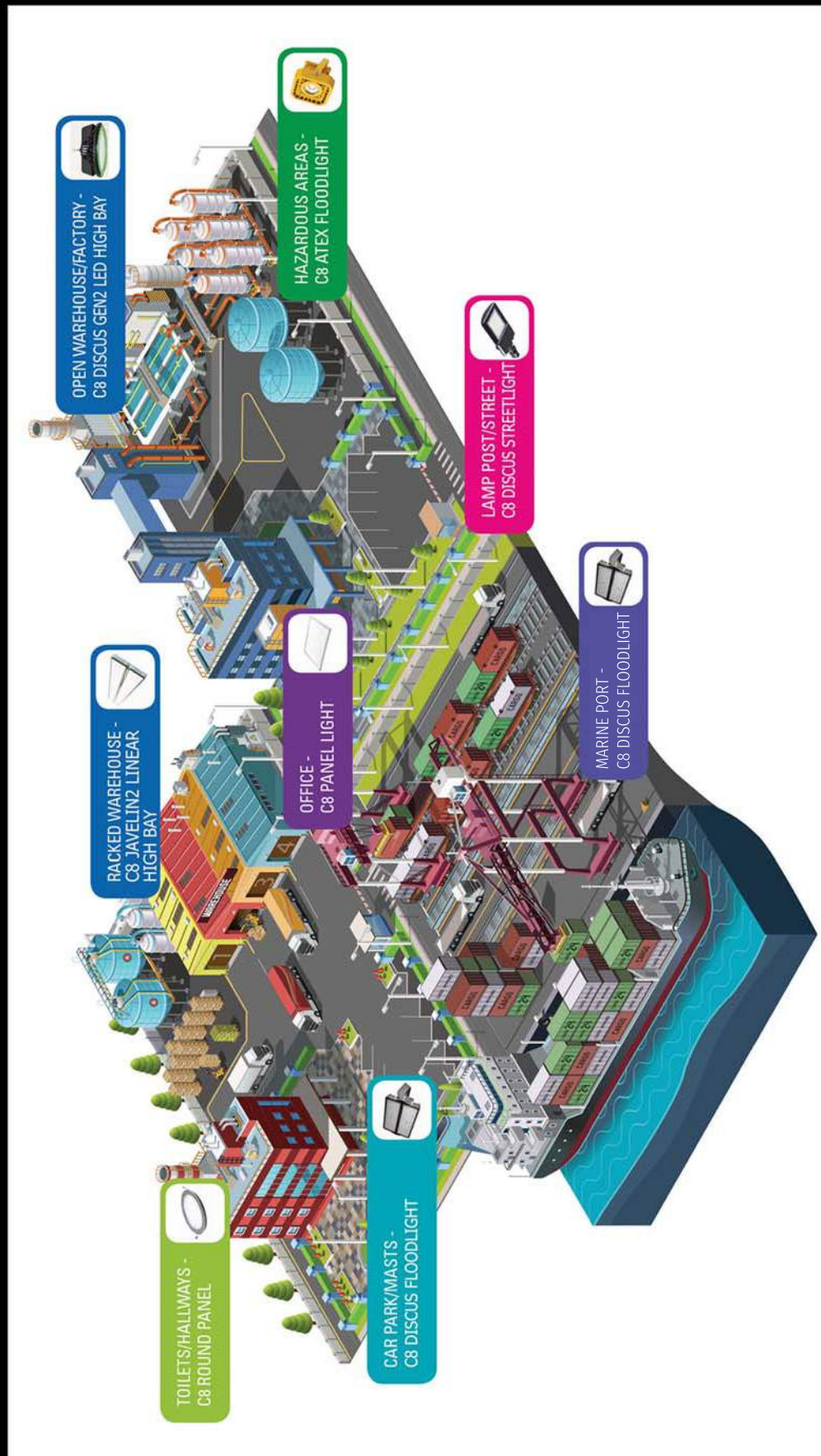
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CARBON8

LIGHTING

FITTINGS MAP



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CARBON8 LIGHTING

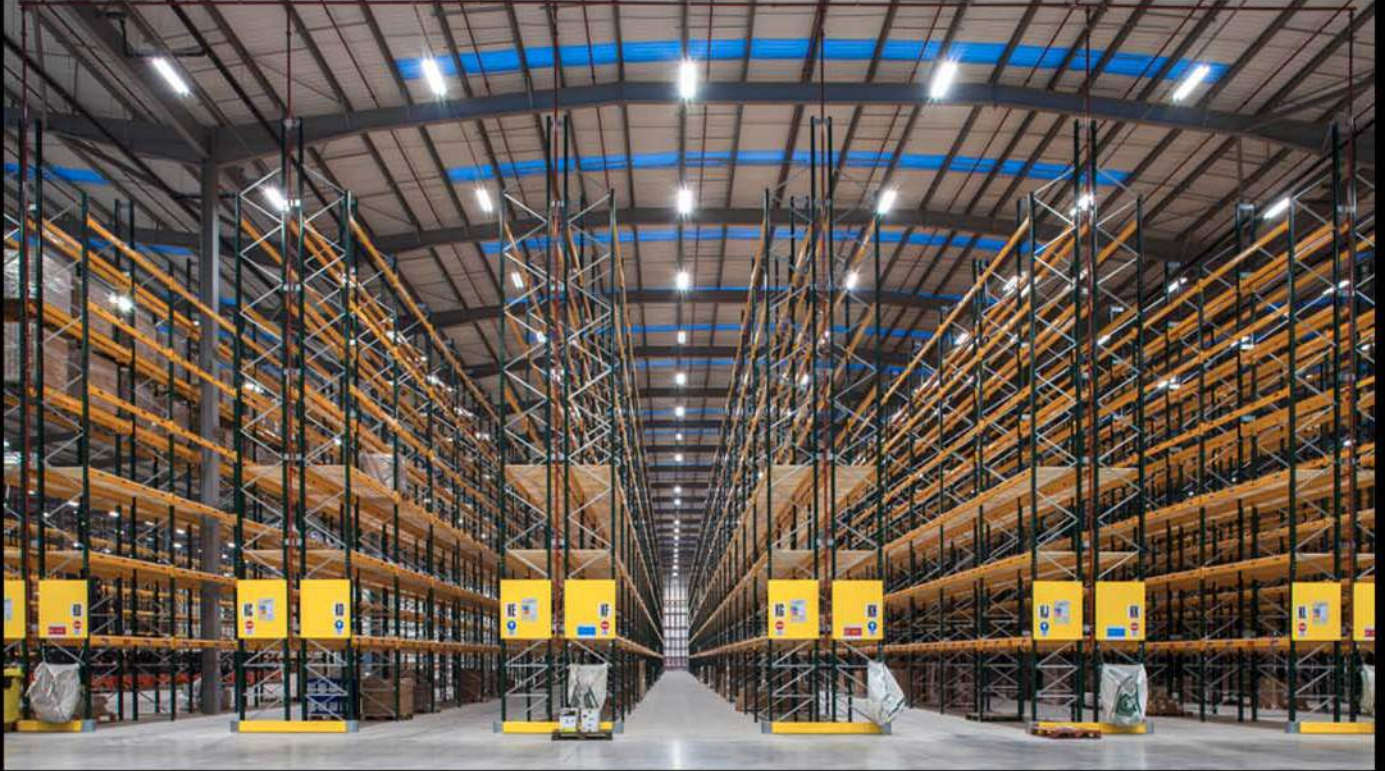
FITTINGS MAP

HB	OPEN WAREHOUSE/FACTORY C8 DISCUS GEN2 LED HIGH BAY		Ultra-efficient and market leading, the Discus Gen2 is an evolution of Carbon8Lighting's highly successful Discus LED High Bay. The Discus Gen 2 is specifically tailored for lighting large areas such as warehouses and factories, inside and out. The Discus Gen2 range combines high quality materials, leading edge technology and intelligent design to produce a robust and reliable light fitting that is IP65 rated and can operate in the harshest environments.
HB	RACKED WAREHOUSE C8 JAVELIN2 LINEAR HIGH BAY		Specifically designed for lighting aisles, the Carbon8Lighting Javelin 2 LED High Bay range combines latest technology with intuitive, intelligent design. The result is a light fitting that offers outstanding performance, economy and reliability. The Javelin 2 pairs perfectly with Carbon8Lighting's hugely successful Discus LED open area high bay to offer total lighting solutions for warehouse, factory and retail applications.
PL	OFFICE C8 PANEL LIGHT		The Carbon8Lighting LED Panel offers excellent performance matched with superb reliability. Ease of installation and exceedingly low maintenance make the Carbon8Lighting LED Panel the ideal choice for new or retrofit installation.
DL	TOILETS/HALLWAYS C8 ROUND PANEL		The Carbon8Lighting LED Downlight range offers superb performance, value and ease of installation. The coated aluminium bezel and light diffuser give a sleek stylish making this fitting ideal for domestic, retail and office environments.
FL	CAR PARK/MASTS C8 DISCUS FLOODLIGHT		The Carbon8Lighting Discus LED Floodlight is a unique design that offers an unparalleled combination of performance, quality and flexibility. The Discus Floodlight range sits perfectly alongside Carbon8Lighting's hugely successful Discus LED High Bay and Javelin 2 Linear High Bay ranges, combining to offer total lighting solutions for warehouse, factory and retail applications, indoor and out.
SL	LAMP POST/STREET C8 DISCUS STREETLIGHT		Market leading and Ultra-efficient the Discus Streetlight has a choice of symmetric and asymmetric precision lenses to ensure that the light directs to exactly where it's needed. In doing this the Discus Streetlight maximises efficacy while minimising secondary glare and light pollution. Optional daylight sensing offers even greater energy saving, ensuring that the light fitting is on only when it is needed. The LED Discus Streetlight offers outstanding combination of performance, quality and flexibility.
FL	MARINE PORT C8 DISCUS FLOODLIGHT		The Carbon8Lighting Discus LED Floodlight is a unique design that offers an unparalleled combination of performance, quality and flexibility. The Discus Floodlight range sits perfectly alongside Carbon8Lighting's hugely successful Discus LED High Bay and Javelin 2 Linear High Bay ranges, combining to offer total lighting solutions for warehouse, factory and retail applications, indoor and out.
EX	HAZARDOUS AREAS C8 ATEX FLOODLIGHT		ATEX certified by world renowned Norwegian specialist, Nemko, the Carbon8Lighting ATEX Flood Light range is uniquely designed and precision engineered to the highest standards. The fitting is adaptable and suitable for use in a broad range of applications.

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INTELLIGENT LED LIGHTING



Light when and where you need it!

It is a well-documented fact that businesses waste vast amounts of energy through inefficient use of lighting. Every day of every year, office, factory and warehouse light fittings burn at 100% when left unoccupied, or when there is sufficient ambient light to allow for safe works. For businesses globally, lighting currently accounts for the biggest single area energy waste, translating into large energy bills that could be dramatically reduced.

Switching the lights off would be the simple answer, of course, if humans were not notoriously unreliable when it comes to doing this. Additionally, there are other impracticalities associated with switching off and on older lighting technologies; the key drawbacks being restrike time and knowing when the ambient light levels are sufficient to be able to switch fittings off.

Therefore, the answer to this costly issue is to take the human element out of the equation.

The ideal solution is to use sensor-control, although historically with technologies such as Fluorescents, Metal Halide and Sodium, this was not a comprehensive solution; due again to restrike times and lack of dimming capabilities.

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CARBON8 LIGHTING

Enter LED

LED Lighting is now firmly established and offers enough benefits on its own merits to mean that we should be evaluating upgrading to LED now. Some of LED's key attributes that overcome the drawbacks of older sensor integration include instantaneous illumination and a choice of available dimming protocols.

The major benefit that we achieve when upgrading to LED is staggering reduction in energy consumption, translating into dramatic cost reductions and fast return on investment payback.



To achieve the ultimate efficient lighting solution we need a highly efficient product, coupled with an intelligent lighting control system.

Such advanced lighting control systems have been available for some time now, but to implement this type of system, it is usually highly complex and prohibitively expensive. This is down to installation which requires additional circuitry, commissioning of the fittings, a building management system, and the initial control of the hardware.

Enter Carbon8Lighting C8 Luminet

Simple, intelligent control for Carbon8's ultra-efficient LED light fittings. Imagine being able to control individual light fittings so that each one reacts to movement and light level exactly as you wish. Being able to group fittings, and control by whichever sensor or sensors you chose. Dim each and any fittings to your chosen level as and when desired. Monitor key aspects of your lighting such as energy consumption, occupancy levels and emergency lighting status. This is a lighting utopia, this is Carbon8Lighting C8 Luminet.

They say that the best solutions take complex problems and make them easy and this is exactly what C8 Luminet does.

So what exactly does C8 Luminet do? Carbon8Lighting's C8 Luminet brings advanced lighting control to all sizes of business at an affordable price. Linking a range of Carbon8's dimmable luminaires to movement and/or light level sensors, as well as to one another, all wirelessly.

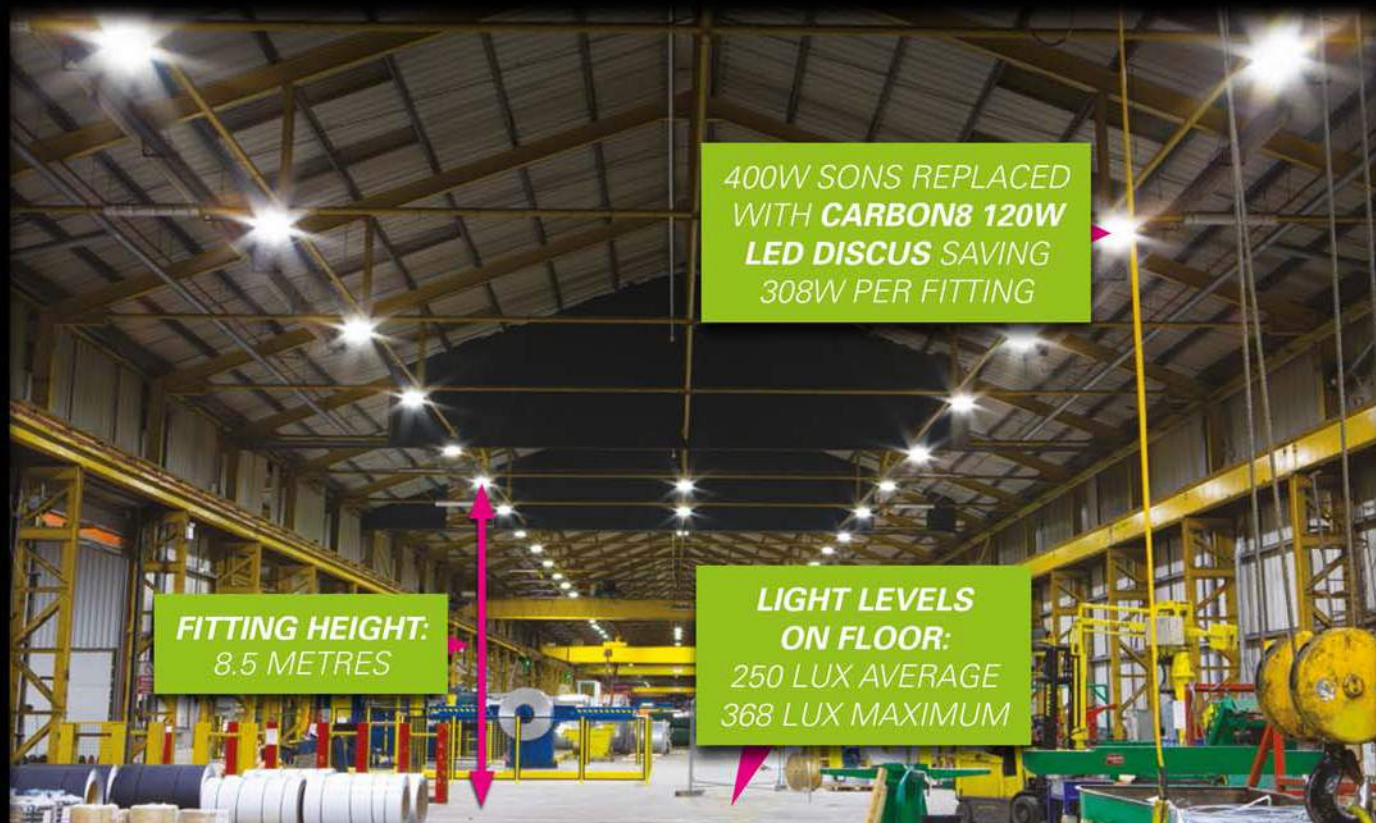
The C8 Luminet system is simple to install, easy to commission and offers an unlimited number of connections. What this means in practical terms, is that every light fitting on the network is doing exactly what you want it to be doing, no more, no less.

C8 Luminet combines an affordable intelligent lighting control system with Carbon8Lighting's ultra-efficient LED Light fittings to provide unparalleled savings. This is the future of commercial lighting, available today.

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SO, WHAT ARE WE LOOKING AT HERE?

- An installation of 180 x **Carbon8Lighting 120W Discus LED High Bay** fittings at the renovated Capital Coated Steel (CCS) factory, Newport, Wales
- CCS have replaced each existing 400W SON fitting, with an ultra-efficient Carbon8 120W Discus LED fitting
- Installing Carbon8 Discus saves CCS 486,000kW each year (approximately 260,000kg of co2 emissions) at this site
- Both light levels and light quality are improved
- Carbon8Lighting's unique Premier Care Warranty offers CCS the peace of mind that no other fitting can offer

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WHY YOU SHOULD CHANGE YOUR LIGHTING TO LED TECHNOLOGY

**1**

Why update your lighting?

- Energy bills dramatically reduced
- Carbon emission dramatically reduced
- Workplace Safety Increased
- Productivity increased

2

Why choose LED?

- The most efficient, stable and reliable light technology available today
- Fast return on investment
- Improved light quality
- Zero maintenance
- Easily integrate with light level and occupancy sensors
- Robust and shock resistant
- Sensor compatible

3

Why choose Carbon8Lighting?

- UK Company with experienced LED lighting technical sales team
- High quality fittings with unique features
- Best performance LED fittings available
- 5 Year Premier Care Warranty offers customers unrivalled peace of mind
- Free trial stock available
- Free lighting simulations & return on investment calculations

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5 YEAR PREMIER CARE WARRANTY...



...WON'T LEAVE YOU OUT OF POCKET!

Q

Who pays if your fitting fails?

A

Carbon8Lighting – The Carbon8Lighting LED Discus High Bay comes with Carbon8's unique 5 Year Premier Care Warranty. If one of your Discus fittings should become faulty at any point during the five year warranty, Carbon8 will send an advance replacement fitting to site, pay up to £250+VAT towards the exchange of the faulty fitting and then collect the faulty fitting from site.

The Premier care warranty is just one of the many benefits that Carbon8Lighting customers across the UK and Europe enjoy.

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RECENT INSTALLATION

CARBON8LIGHTINGS **DISCUS ZERO LED Highbay** AT HARVEST FINE FOODS



This image shows the mounted fitting outside the freezer

Discus Zero is the perfect solution for freezer rooms, cold stores and chillers. We factored in that maintenance is a far more difficult task when dealing with this type of environment. The Discus Zero mounts the driver above the freezer conduit and the LED remotely where the light is required.

The Discus Zero also is supported by the **5 Year Premier Care Warranty**. Look out for a detailed case study in the near future that will show in detail the savings and benefits Harvest Fine Foods are experiencing using Carbon8Lighting's products.



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CARBON8 LIGHTING – ADDITIONAL SERVICES

The primary objective of Carbon8Lighting is, of course, the design and manufacture of ultra-high performance class leading industrial and commercial LED light fittings. However, additionally Carbon8 offers a range of supporting services to assist customers, many of which are free.

Lighting Project Proposals

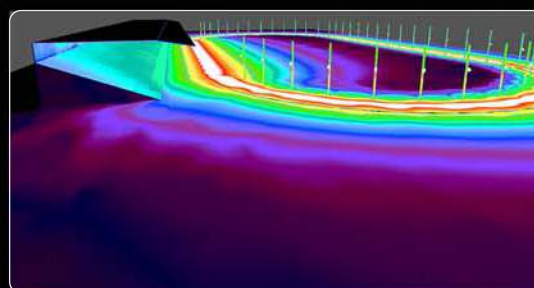
Carbon8Lighting offers a comprehensive lighting proposal service to assist clients with selecting the correct products for a particular lighting project. This can range from a simple photometric simulation produced from an emailed drawing, through to a full site survey/lighting audit that is then followed with a comprehensive lighting design simulation report, return on investment calculations and any other supporting information that relates to the particular project.

The information provided to customers from these proposals is invaluable with assisting with the decision making process when considering the many benefits of a lighting upgrade project.

Lighting Design

Carbon8Lighting offers a comprehensive lighting design service covering all aspects of internal and external commercial, industrial and sports lighting.

Projects designed by Carbon8 include airport aprons and hangers, swimming pools, sports arenas, railway sidings and sheds, ports and even a giant animal enclosure at a zoo. Of course Carbon8 also provide lighting designs for more conventional projects such as factories, warehouses, office spaces and car parks.



Tailoring Service

Carbon8Lighting offers a range of 'tailoring' services for its LED Light fittings.

This includes everything from custom powder coating to tamper proofing, from light diffusers to dust deflectors and much more.

Extending cable flex, remotely mounting drivers and adding plug connectors are just some of the examples of bespoke work carried out by Carbon8, assisting installers with speeding up their install times by having this work done prior to delivering the fittings to site.

Finance

Historically, lighting has been difficult to finance competitively because light fittings were deemed to have little or no value once installed.

With their outstanding lifespan, robust reliability and the backing of its unique 5 Year Premier Care warranty package, Carbon8's LED fittings are extremely attractive to companies offering finance. Collaborating with a number of specialist finance companies, Carbon8 is able to offer a range of finance packages to suit customer needs, including the inclusion of all project costs such as installation.

Rates can be so competitive that customers often enjoy the benefit of saving money from day one, quite simply through the reduction in energy costs being greater than the combined finance figure added to the reduced energy bill.

Finance is a great option for companies that do not have the capital available to fund an energy saving lighting project, but can clearly see the huge savings and benefits from such a project. Being in a positive cash flow position from the start of a financed lighting project is very common and this makes the financing option very appealing.

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CARBON8 LIGHTING – ADDITIONAL SERVICES

Lighting Controls

The addition of sensor control can enhance the already huge savings offered by LED lighting. Unlike older lighting technologies, LED works wonderfully with lighting controls such as occupancy and daylight sensing.

Having the option for dimming means that each Carbon8Lighting sensor controlled fitting can be programmed to provide just the right amount of light required in conditions where natural light levels fluctuate. The sensor is set to measure the light level and when the natural light falls below a pre-set level, the Carbon8 fitting starts to come on to maintain the light levels.

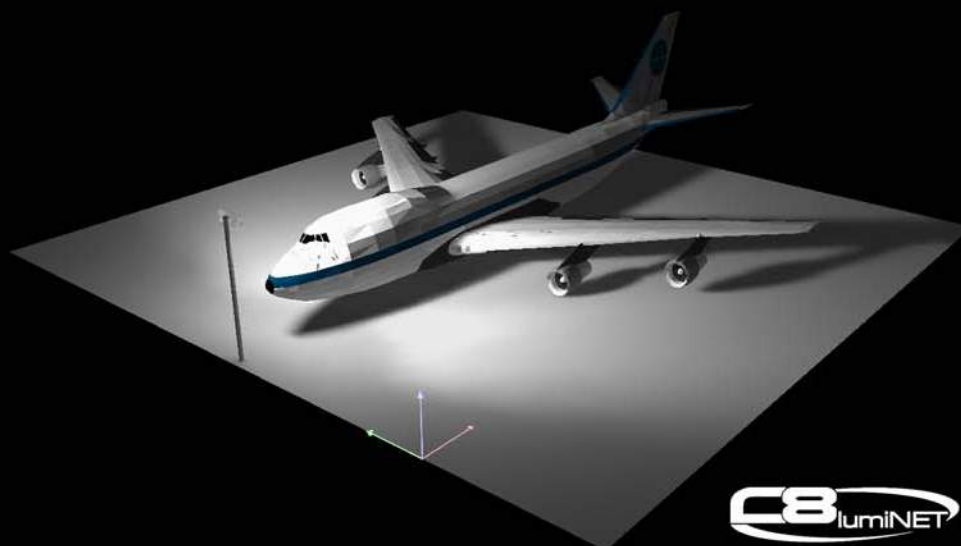
Carbon8 offers two key sensor control options, both of which can offer dimming, daylight sensing and occupancy/movement sensing.

For the first option Carbon8Lighting has teamed up with electronics giant Honeywell to offer an integrated standalone occupancy and light level sensor that is programmable from floor level. The advantage to this system is that it is simple to install and works very well for many work areas.

The second option is Carbon8 lighting's flexible intelligent wireless lighting control system, LumiNET. LumiNET is a highly flexible system that offers programming of light fittings and sensors in any combination to suit the specific area(s) to be lit. All of this programming can be done remotely from the comfort of your desk or even your armchair at home, using a tablet.

Additionally LumiNET offers unparalleled data collation, telling you how much energy each fitting or group of fittings has consumed for a given period and how many times a sensor has been triggered, showing occupancy 'hot spots'. This information is provided to your desktop via a portal and is depicted using clear and easy to understand graphical representation. Using this information it is then possible to fine tune the programming of sensors and fittings to get the absolute maximum savings.

LumiNET also offers an inbuilt Emergency Monitoring System that can help to improve safety and further save money.



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Carbon8lighting is a division of Taran Microsystems Limited, a UK company since 1992. Company reg number 2751845



ILLUMINATING YOUR WORLD

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