LightGraphix

Creative Lighting Solutions

Dimensions in mm



The LD151 is a powerful uplight with a compact size and depth, designed specifically to produce low glare illumination onto interior and exterior walls and columns. It can be specified with a wide range of options allowing it to suit most project requirements. Available LED engines include E3, Tunable White, RGBW and F1 which offer a range of colour temperatures between 2200K-5000K and beam angles, with multiple accessories and bezel finishes to choose from. The bezel aesthetic is minimal featuring black trim glass and no visible fixings. This is a very tough, high quality fitting, machined from high grade materials, ensuring excellent thermal and light output performance.



KEY FEATURES

- E3 engine option with NICHIA LED, delivering up to 647 lumens and built-in reverse polarity protection
- F1 COB, Tunable White, CLR, RGBW, 2nd channel LEDs also available >
- Straight edged bezel available in 316 Stainless Steel, Polished & Passivated > 316 Stainless Steel, Machined Brass, Flamed Solid Bronze and paint finishes
- Multiple optic options for lighting columns, arches or wall washing in interior and exterior applications, rated IP67
- Choice of glare shields to minimise the view of the intense light source without > affecting the wash of light on the wall/column
- Single light source and optic produces a very consistent beam with no multiple shadows and 2-step binning
- LED and lens are recessed in a matt black anodised body for reduced glare >
- Toughened glass with a ceramic black trim >
- Fitting rated IK08
- Hidden fixing options include first fix sleeve, ground tube and concrete housing

Contains our integral moisture guard (anti-wicking barrier), stopping water ingress from going up the cable into the product from incorrect IP-rated connections

Switched, 0-10V, Casambi, DMX, DALI or Mains dimmable drivers available >

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DIMENSIONS

For full dimensions please go to page 4.





WHITE LED ENGINE SPECIFICATION

Engine	⊕ E3			• F1					
Beam angles	12°, 18°, 31°, 55°	, 14° x 48°		25°, 35°, 52°, 17	25°, 35°, 52°, 17° x 48°				
LED manufacturer	NICHIA			CREE	CREE				
Colour temperature*	2700K, 3000K, 400	00K, 5000K		2200K, 2700K, 3000K, 4000K, 5000K					
Current [Rated Output]	350mA [5W]	500mA [7W]	700mA [10W]	350mA [3.5W]	500mA [5W]	700mA [7W]			
Typical LED Circuit wattage	4.4W	6.4W	9.2W	3.3W	5W	7.2W			
Delivered lumens (L100)*	363	477	647	211	272	348			
Delivered Im/Circuit W**	82	74	70	63	54	48 6.5W 654 101			
Typical LED Source wattage	4W	5.8W	8.3W	3W 377	4.5W				
Source LED Im	574	740	949		497 110				
Source Im/W	144	128	114	126					
Forward voltage (V100)	11.3V 11.6V		11.8V	8.7V	8.7V 9V				
CRI	85			90					
Colour consistency	2SCDM			3SCDM					
Peak intensity**	4,346 cd			1,664 cd					
LOR	0.68			0.53					
TM30	RF93 RG101			RF90 RG103					
UGR rating ('downlight' mounted) ***	6.1	7.1	8	7.4	8.3	9.1			
BUG rating ('downlight' mounted)	B0-U3-G0	B0-U3-G0	B0-U4-G0	B0-U3-G0	B0-U3-G0				
LED lifetime	L90B5 at 90,000hr	S		L90B5 at 90,000hrs					
Applications									

These values are based around a LD151-E3-700-LW30-NB & LD151-F1-700-LW22-MSB *Lumen output data applies to all colour temperatures **LED wattage includes losses assocaited with using a 90% efficient driver ***UGR values based on room parameters of 4H 8H, C70 W50 F20

MECHANICAL

Ambient temperature	E3	-20° to 50° (350mA-500mA) or -20° to 25° (700mA) in soil OR -20° to 50° (350mA-700mA) in concrete					
	F1	-20° to 50° (350mA-700mA) in soil OR -20° to 50° (350mA-700mA) in concrete					
Glass	6mm thick	nm thick toughened glass with black ceramic screen print					
Materials	Stainless s	Stainless steel bezel, anodised aluminium body					
Weight of product	0.52kg	0.52kg					
IP rating	IP67	IP67					
IK rating	IK08						
Wiring	In-series constant current wiring (pre-wired with 2 core cable at a length of 250mm)						

ENVIRONMENTAL

TM65	Available on request							
TM66	2.7							
Repair + Refurbish	R + R This product is included in our Repair and Refurbish scheme. This offers customers the ability to send back products to us for repair or refurbishment to extend their life without having to buy new fittings.							



COLOUR & DYNAMIC LED ENGINE SPECIFICATION

Engine	CLR - Colour	RGBW		TW - Tun	TW - Tunable White		
Beam Angles	24°, 38°, 54°, 20° x 46°	38° colour mix l	ens	24°, 38°, 54°, 20°	24°, 38°, 54°, 20° x 46°		
LED manufacturer	CREE	CREE CREE					
Colour temperature	Red, Green, Blue, Amber	Red, Green, Blue	e, 4000K White	Warm White 2700K or 3000K	Cool White 4000K or 5000K		
Current	500mA	350mA	500mA	500mA	500mA		
LED power (Max)	7W	3.5W	5W	6.3W (7W) 3.5W per channel			
Applications		<u> </u>	·				

MECHANICAL

Glass	6mm thick toughened glass with black	6mm thick toughened glass with black ceramic screen print										
Materials	Stainless steel bezel, anodised alumini	Stainless steel bezel, anodised aluminium body										
Weight of product	0.52kg	0.52kg										
IP rating	IP67	IP67										
IK rating	IK08	IK08										
Wiring	CLR - 2 core cables at 250mm in length	RGBW - 8 core cables at 250mm in length CH 1 CH 3 CH 2 CH 4	TW - 4 core cables at 250mm in length CH 1 CH 2									

AVAILABLE FINISHES





316 STAINLESS STEEL

- Marine grade 316 Steel >
- Standard machined finish >
- Extremely durable with very > high corrosion resistance
- Passivation recommended for marine environments to prevent corrosion and build up of brown stains caused by oxidation
- Interior & exterior use >



POLISHED & PASSIVATED 316 STAINLESS STEEL

Marine Grade 316 Steel >

>

Mirror like finish

>

>

>

>

- Extremely durable with very > high corrosion resistance
 - Passivated to extensively prolong resistance to corrosion and brown stains caused by oxidation in marine environments
 - Interior & exterior use





MACHINED BRASS

- Solid CZ121 Brass
- Standard machined finish >
- Corrosion resistance rated > fair to excellent >
 - Please note a natural green/brown patination layer will form after long term exposure to the elements, the extent of this discolouration will be dependant on its location.

Interior & exterior use



FLAMED SOLID BRONZE

Solid Bronze

Hand finished Flamed Bronze

Extremely durable with very

high corrosion resistance.

Please note a natural dark

patination layer will form

after long term exposure to

the elements, the extent of

this discolouration will be

dependant on its location.

Interior & exterior use

unique to LightGraphix





PAINT FINISH

- Matt Black, Matt White, > and other RAL colours available
- Not recommended for > footlights in high traffic areas
- Interior & exterior use >



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Please refer to our finishes guide for full details



Dimensions in mm

DIMENSIONS AND FIXING ACCESSORIES

/484S First Fix Sleeve

The fitting is supplied as standard with a fixing sleeve; this is bonded into the mounting surface first. The LD151 is secured into the sleeve by 2 '0' rings on the body. When pushed into the sleeve it creates a watertight seal.

/SC Spring clip fixing

Suitable for use in surfaces with a thickness of 1mm – 25mm. Spring clips can provide a simple, single fix mounting method. We recommend that spring clips are only used in interior applications.

/484GT Ground tube

The in-ground tube has been designed for applications here a recessed uplight is required in soil or gravel surfaces. The tube can be buried with the necessary wiring, and then the fitting installed after the landscaping work has been completed. It is supplied with the fixing sleeve bonded into the tube and can be cut down on site.



/484N or /484N-2 Concrete housing

Must be used when specifying the 700mA fitting. The aluminium housing is used as a heat sink which keeps the LED fitting cool through the thermal transfer of the heat within the housing to the surrounding concrete. The housings are big enough for IP rated connections to be made inside the housing and a second gland is available for cabling onto the next luminaire.



/484N Concrete housing with 1x PG9 IP67 gland



/484N-2 Concrete housing with 2x PG9 IP67 gland

/ID Optional integral non dimming driver (single colour only at 350mA or 500mA)







GLARE SHIELD OPTIONS

LD151 comes with a choice of glare control options. Please refer to our photometric files for lumen data. These are available to download from the website.



/NGS No glare shield No glare shield. Deep recessed optic and matt black anodised optic holder aids in glare reduction.



/GS Glare shield

Standard glare shield, which provides an excellent balance between glare control and light output. This accessory works well in most applications.



/GSHM Half moon glare shield Half-moon glare shield for applications that require very low glare. Lumen output typically reduced by 60%.





LightGraphix Creative Lighting Solutions

LD151

CONE DIAGRAMS

E3 LED Engine

Cone diagrams below are based on a 3000K E3 LED engine run at maximum output 700mA, 10W. Images below represents beam outputs when wall washing a 3m wall, spaced 125mm away from the lit surface. Photometric files (LDT) are included in the design pack which can be downloaded from the LD151 product page on the website.



F1 LED Engine

Cone diagrams below are based on a 3000K F1 LED engine run at maximum output 700mA, 10W. Images below represents beam outputs when wall washing a 3m wall, spaced 125mm away from the lit surface. Photometric files (LDT) are included in the design pack which can be downloaded from the LD151 product page on the website.





0.20

0.5

6729 0.5



Cone Width (m)









LD151

INSTALLATION GUIDE

Below is a luminaire positioning guide for white LEDs. Every project and lighting scenario will be different; the table below is to be used as a starting point for any wall wash design. Please use our photometric files to further test the desired effect for your application. Files are available on our LD151 product page on our website.



LD151	I-E3	/NB	/MB	/WB	/WWB	/0B	LD151	I-F1	/MSB	/WB	/WWB	/0B
A	Distance from the centre of the fitting to the lit surface	125mm					A	Distance from the centre of the fitting to the lit surface	125mm			
B	Spacing for an even wash	250mm*	350mm	400mm	500mm	500mm	B	Spacing for an even wash	350mm	400mm	500mm	500mm
C	500mA Lit distance	6m	4.5m	2m	2m	4m	C	500mA Lit distance	2.5m	2m	1.5m	3m
C	700mA Lit distance	9m	5.5m	4m	3m	5m	C	700mA Lit distance	5m	4m	2m	4m

*Wall washing using narrow beam optics should only be used if the designer requires long distance lighting up the lit surface.



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LD151

ORDER CODES & OPTIONS

Example: LD151-E3-700 / LW30 / NB / NGS / Stainless Steel / 484N Light Engine & Drive Current LED Colour Glare shield Finish Beam Angle **Fixing Accessories** WHITE LED ENGINES (\oplus) **E3** 5W LED Extra Warm 12° LD151-E3-350 /NB at 350mA White /LW27 Narrow spot (2700K) 7W LED 19° /MB ID151-F3-500 Warm White at 500mA Medium /LW30 (3000K) 34° 10W LED /WB LD151-E3-700 White at 700mA Wide /NGS 316 Stainless Steel /484S (4000K) - on /LW40 54° reauest /WWB Extra wide Cool White /LW50 15° x 49° (5000K) /0B Oval \bigcirc Polished & Passivated F1 /SC 316 Stainless Steel (for marine environments) 3.5W LED 25° Super Warm /LW22 LD151-F1-350 /MSB at 350mA . White (2200K) Medium spot 5W LED 46° LD151-F1-500 /WB at 500mA Wide 7W LED 65° /GSHM /484N LD151-F1-700 /WWB at 700mA Extra wide Flamed Solid Bronze 43° x 25° /0B Oval **COLOUR & DYNAMIC LED ENGINES** CLR /484N-2 3.5W LED 24° Machined Brass LD151-CLR-500 Red /LR /MSB at 350mA Medium 38° Green /LG /WB Wide 54° Blue /LB /WWB Extra wide /ID 20° x 46° Paint Finish Amber /LA /0B Oval Black (RAL 9005) RGBW 3.5W LED /484GT LD151-RGBW-350 38° Colour mix lens at 350mA 5W LED LD151-RGBW-500 at 500mA Paint Finish White (RAL 9016) (88) τw 3.5W LED Tunable 24° LD151-TW-350 /MSB White 2700K at 350mA /LW27 Medium & 4000K + LW40 (standard 38° /WB option) Wide Paint Finish Tunable White /IW/27 51° RAL 2700K & /WWB + LW50 Extra wide 5000K /LW** 20° x 46° /0B

Drivers

Use with 350mA, 500mA & 700mA constant current LED drivers

Custom

We have a range of dimmable LED drivers DMX and DALI compatible. Please see the downloads section on our website

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Oval

