

KEY FEATURES

- > E3 engine option with NICHIA LED, delivering up to 647 lumens when specified at 700mA with concrete housing in 3000K
- $\,>\,\,\,\,\,$ F1 COB, Tunable White, CLR, RGBW, 2nd channel LEDs also available
- > Chamfered edged bezel available in 316 Stainless Steel, Polished & Passivated 316 Stainless Steel, Machined Brass, Flamed Solid Bronze and RAL paint finishes
- > Multiple optic options for lighting columns, arches or wall washing
- > Single light source and optic produces a very consistent beam with no multiple shadows and 2-step binning
- > Choice of glare shields to minimise the view of the intense light source without affecting the wash of light on the wall/column
- > LED and lens are recessed in a matt black anodised body for reduced glare
- > Toughened glass with black ceramic trim
- > Fitting rated IK08
- > Hidden fixing options include first fix sleeve or concrete housing
- > Switched, 0-10V, Casambi, DMX, DALI or Mains dimmable drivers available

DIMENSIONS

Dimensions in mm

For full dimensions please go to page 4.





WHITE LED ENGINE SPECIFICATION

Engine	⊕ E3	⊕ E3			F1			
Beam angles	12°, 19°, 34°, 54°,	12°, 19°, 34°, 54°, 15° x 49°			25°, 46°, 65°, 43° x 25°			
LED manufacturer	NICHIA	NICHIA			CREE			
Colour temperature*	2700K / 3000K / 4	2700K / 3000K / 4000K / 5000K			2200K			
Current	350mA	350mA 500mA 700mA**		350mA	500mA	700mA**		
LED power (Max)	4.2W (5W***)	6W (7W***)	8.4W (10W***)	3.2W (3.5W***)	4.5W (5W***)	6.3W (7W***)		
Delivered lumens (L ₁₀₀)****	363	477	647	211	272	348		
Lumens per circuit watt	73	73 68 60		61	55	50		
CRI (Typ)	85	85			90			
Forward voltage (V ₁₀₀)	14V	14V			9V			
Colour consistency	2 SCDM	2 SCDM			3 SCDM			
Peak intensity	6890 cd	6890 cd			1664 cd			
LED Lumens	840	840			623			
LOR	0.77	0.77			0.63			
TM30	RF85	RF85 RG98		RF90 RG103				
UGR****	7.0	7.0			9.1			
LED lifetime	L90B5 at 90,000hr	L90B5 at 90,000hrs						
Applications								

These values are based around a LD150-E3-700-LW30-NB & LD150-F1-700-LW22-MSB

- *Lumen output data applies to all colour temperatures

 **can only be specified with /482N concrete housing

 ***indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver
- *****lumen output indicated is without the glare shield. Allow 30% less with the /GS glare shield.
- ****** UGR values based on room parameters of 4H 8H, C70 W50 F20

MECHANICAL

Ambient temperature	-20° to 45° (500mA) or -20° to 35° (700mA)	
Glass	6mm thick toughened glass with black ceramic screen print	
Materials	Stainless steel bezel, anodised aluminium body	
Weight of product	0.52kg	
IP rating	IP54	
IK rating	IK08	
Wiring	In-series constant current wiring (pre-wired with 2 core cable at a length of 250mm)	

COLOUR & DYNAMIC LED ENGINE SPECIFICATION

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

MECHANICAL

Glass	6mm thick toughened glass with black cer	6mm thick toughened glass with black ceramic screen print					
Materials	Stainless steel bezel, anodised aluminium	Stainless steel bezel, anodised aluminium body					
Weight of product	0.52kg	0.52kg					
IP rating	IP54	IP54					
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

Please refer to our finishes guide for full details





316 STAINLESS STEEL

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





POLISHED & PASSIVATED 316 STAINLESS STEEL

- > Marine grade 316 Steel
- > Pristine mirror like finish
- > Extremely durable
- 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 unique to LightGraphix
- 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





PAINT FINISH

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







DIMENSIONS AND FIXING ACCESSORIES

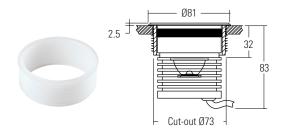
Dimensions in mm

Soft silicon seal holds the fitting into the cut-out.

2.5 83 Ø81 83 Ø81 Cut-out Ø65

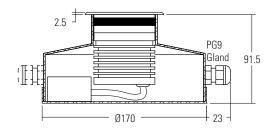
/482S First fix sleeve

First fix sleeve is polypropylene. Fins on the side lock it into a range of mounting surfaces.



/482N or /482N-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.







/482N Concrete housing with 1x PG9 IP67 gland

/482N-2 Concrete housing with 2x PG9 IP67 gland

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



GLARE SHIELD OPTIONS

/NGS No glare shield

Deep recessed optic and matt black anodised optic holder aids in glare reduction.



/GS Glare shield

Standard glare shield 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%.

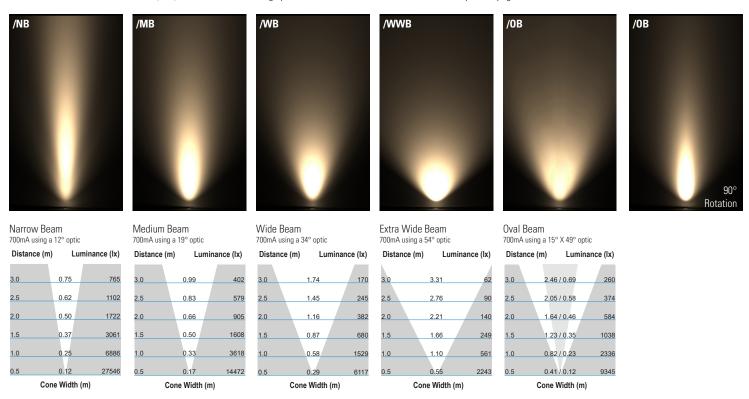




CONE DIAGRAMS

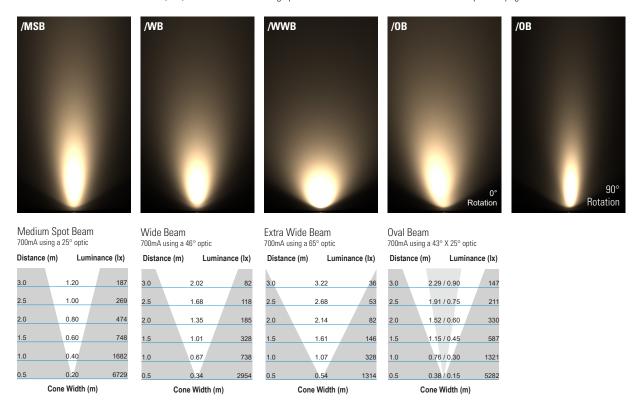
E3 LED engine

Cone diagrams below are based on a 3000K E3 LED engine run at maximum output 700mA, 10W. Images below represent 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 LD150 product page on the website.



F1 LED engine

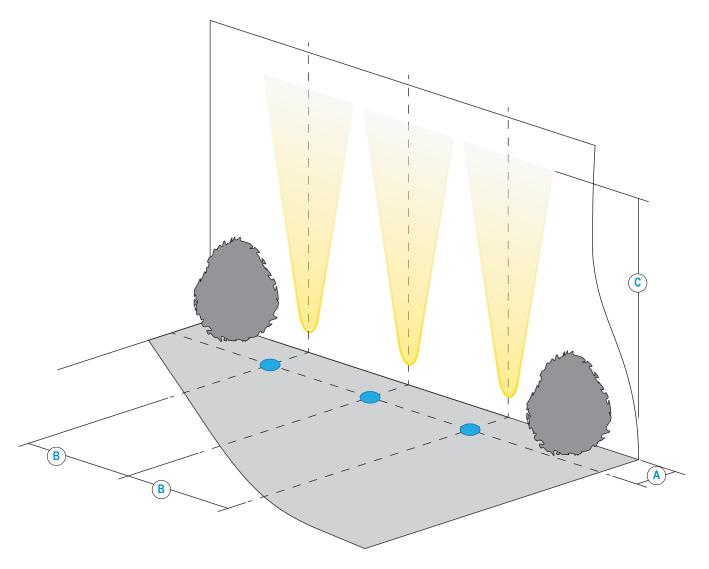
Cone diagrams below are based on a 3000K F1 LED engine run at maximum output 700mA, 10W. Images below represent beam outputs when wall washing a 3m wall, spaced 125mm away from the lit surface. Photometric files (LDT) are included in the design pack which can be downloaded from the LD150 product page on the website.





INSTALLATION GUIDE

Below is a luminaire positioning guide. 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 LD150 product page on our website.



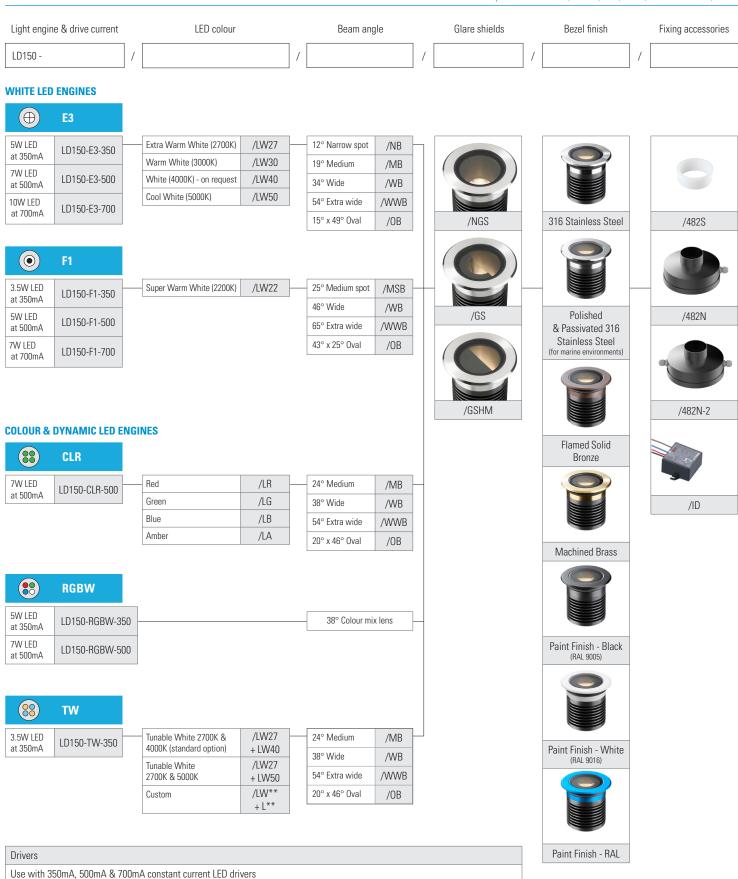
LD150-E3		/NB	/MB	/WB	/WWB	/0B
A	Distance from the centre of the fitting to the lit surface	125mm				
B	Spacing for an even wash	250mm*	350mm	400mm	500mm	500mm
C	500mA Lit distance	6m	4.5m	2m	2m	4m
C	700mA Lit distance	9m	5.5m	4m	3m	5m

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

LD150-F1		/MSB	/WB	/WWB	/OB		
A	A Distance from the centre of the fitting to the lit surface		125mm				
В	Spacing for an even wash	350mm	400mm	500mm	500mm		
C	500mA Lit distance	2.5m	2m	1.5m	3m		
C	700mA Lit distance	5m	4m	2m	4m		

ORDER CODES & OPTIONS

Example: LD150-E3-700 / LW30 / NB / NGS / Stainless Steel / 482N



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