

KEY FEATURES

- E3 engine featuring NICHIA LED, delivering up to 647 lumens with built-in reverse polarity protection
- $\,>\,$ F1 COB, Tunable White, CLR, RGBW, 2nd channel LEDs also available
- > Chamfered edged bezel available in 316 Stainless Steel, Polished & Passivated 316 Stainless Steel, Brass, Flamed Solid Bronze and RAL paint finishes
- > 4 screws in the bezel are tightened to expand 0-rings on the body and secure it into the first fix sleeve, or concrete housing, creating a water tight seal
- > Optics feature an impressively narrow 12° spot is for lighting columns and arches, or a 15°x 49° spreader lens, which is ideal for wall washing applications
- > Single optic produces a very consistent beam with no multiple shadows
- > LED and lens recessed in a matt black anodised body for reduced glare
- Choice of glare shields, to minimise the view of the intense light source without affecting the wash of light on the wall/column
- > Toughened, black ceramic trim glass
- > Offering 700mA when specified with 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			F1				
Beam angles	12°, 19°, 34°, 54°,	, 49° x 15°		25°, 46°, 65°, 43° x 25°				
LED manufacturer	NICHIA			CREE				
Colour temperature*	2700K / 3000K / 4	2700K / 3000K / 4000K / 5000K			2200K			
Current	350mA	350mA 500mA 700mA**			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	68	65	61	55	50		
CRI (Typ)	85		'	90				
Forward voltage (V ₁₀₀)	14V			9V				
Colour consistency	2 SCDM			3 SCDM				
Peak intensity	6890 cd			1664 cd				
LED lumens	840			623				
LOR	0.77			0.63	0.63			
TM30	RF85	RGS	98	RF90 RG103				
UGR****	7.0			9.1				
LED lifetime	L90B5 at 90,000hr	L90B5 at 90,000hrs						
Applications								

These values are based around a LD153-E3-700-LW30-NB & LD153-F1-700-LW22-MSB

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	IP67
IK rating	IK08
Wiring	In-series constant current wiring (pre-wired with 2 core cable at a length of 250mm)

^{*}Lumen output data applies to all colour temperatures
**can only be specified with /483N 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



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 back ceramic screen print							
Materials	Stainless steel bezel, anodised aluminium body							
Weight of product	0.52kg	0.52kg						
IP rating	IP67	IP67						
IK rating	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 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



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

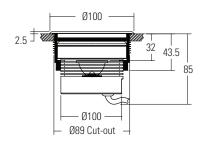
- Matt Black, Matt White, and other RAL colours available
- Not recommended for footlights in high traffic areas
- > Interior & exterior use

DIMENSIONS AND FIXING ACCESSORIES

Dimensions in mm

/483S First fix sleeve

First fix sleeve is polypropylene, with a finned top to fix into various surfaces.



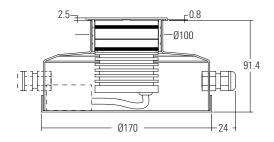


/ID Optional integral non dimming driver (single colour only at 350mA or 500mA).



/483N or /483N-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.





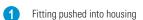




/483N-2 Concrete housing with 2x PG9 IP67 gland

FIXING MECHANISM

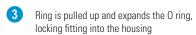












GLARE SHIELD OPTIONS

LD153 is available with a choice of glare control options. Please refer to our photometric files for lumen data.



/NGS No glare shield

For maximum lumen output. Deep recessed optic and matt black anodised optic holder aids in glare reduction.



/GS Glare shield

Standard glare shield. This glare shield provides an excellent balance between glare control and lumen output and 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





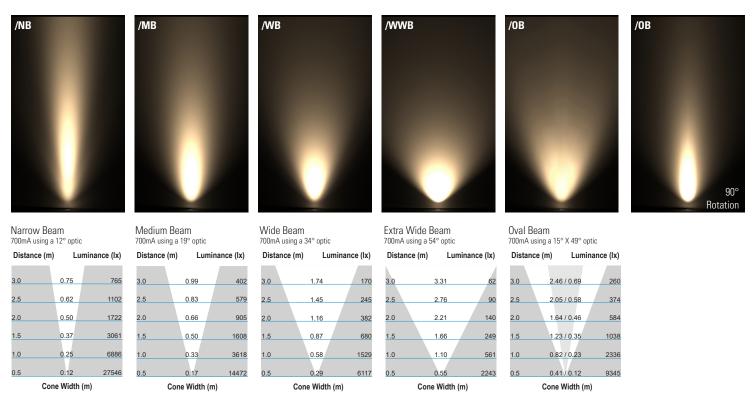




CONE DIAGRAMS

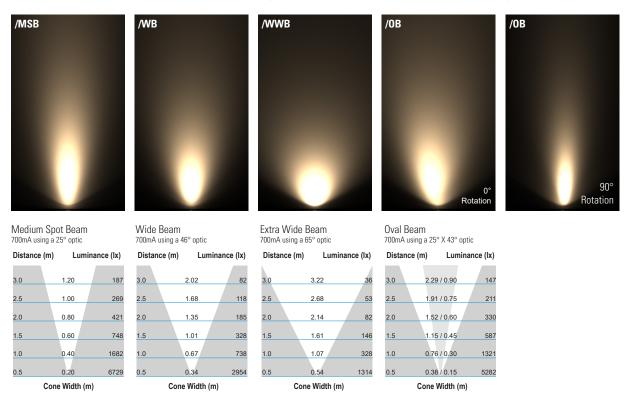
E3 LED Engine

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 LD153 product page on the website.



F1 LED Engine

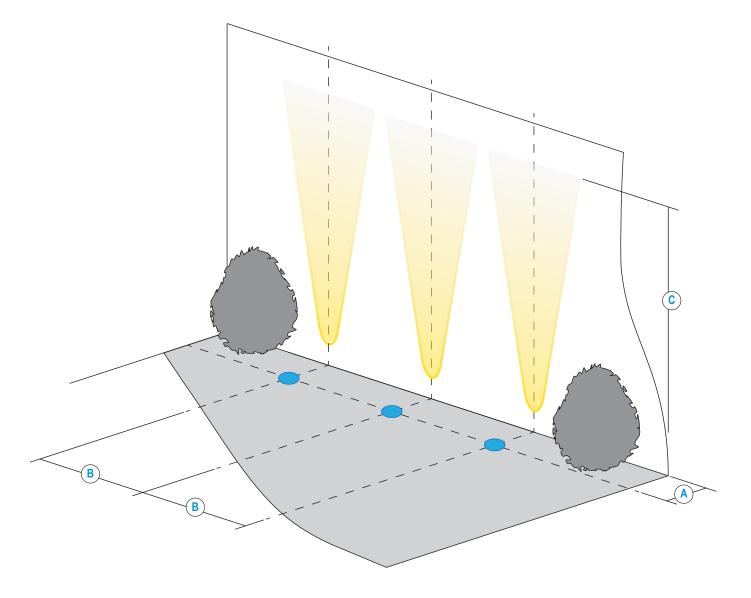
Cone diagrams below are based on a 3000K F1 LED engine run at maximum output 700mA, 10W. Images below represents beam outputs when wall washing a 3m wall, spaced 125mm away from the lit surface. Photometric files (LDT) are included in the design pack which can be downloaded from the LD153 product page 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 LD153 product page on our website.



LD153-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 l	be used if the designer	requires long
distance lighting up the lit surface.			

LD153	3-F1	/MSB	/WB	/WWB	/OB		
A	Distance from the centre of the fitting to the lit surface	125mm					
B	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: LD153-E3-700 / LW30 / NB / NGS / 316 Stainless Steel / 483N

Light engir	ne & drive current	LED colour		Beam ang	le		Glare shield		Bezel finish		Fixing accessories
LD153 -		/		/		/		/		/	
WHITE LED	ENGINES										
	E3										
5W LED at 350mA	LD153-E3-350	Extra Warm White (2700K) Warm White (3000K)	/LW27 /LW30	12° Narrow spot	/NB /MB		(č) ,				12, 15,
7W LED at 500mA	LD153-E3-500	White (4000K)-on request Cool White (5000K)	/LW40 /LW50	34° Wide	/WB		(3)				13.
10W LED at 700mA	LD153-E3-700	oddi Winto (ddddi)	724400	54° Extra wide 15° x 49° Oval	/WWB		/NGS		316 Stainless Steel		/483\$
0	F1						(5)				
3.5W LED at 350mA	LD153-F1-350	Super Warm White (2200K)	/LW22	25° Medium spot 46° Wide	/MSB		(3)				
5W LED at 500mA	LD153-F1-500			65° Extra wide	/WB		/GS		Polished & Passivated 316		/483N
7W LED at 700mA	LD153-F1-700			43° x 25° Oval	/OB		(5)		Stainless Steel (for marine environments)		m po
COLOUR &	DYNAMIC LED EI	NGINES					/GSHM		Flamed Solid Bronze		/483N-2
7W LED		Red	/LR	24° Medium	/MB				Bronzo		
at 500mA	LD153-CLR-500	Green	/LG	38° Wide	/WB						/ID
		Blue	/LB	54° Extra wide	/WWB						
		Amber	/LA	20° x 46° Oval	/OB				Paint Finish - Black (RAL 9005)		
	RGBW	_									
5W LED at 350mA	LD153-RGBW-35	0		38° Colour mix	lens	+					
7W LED at 500mA	LD153-RGBW-50	0							Paint Finish - White (RAL 9016)		
	TW										
3.5W LED at 350mA	LD153-TW-350	Tunable White 2700K & 4000K (standard option)	/LW27 + LW40	24° Medium	/MB						
at oddina		Tunable White	/LW27	- 38° Wide	/WB				Paint Finish - RAL		
		2700K & 5000K	+ LW50	54° Extra wide	/WWB					J	
		Custom	/LW** + L**	20° x 46° Oval	/OB						

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

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



