

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*	2200K, 2700K, 3000	OK, 4000K, 50	000K			2200K, 2700K, 300	OK, 4000K, 50	000K			
Current	350mA [5W]	500mA[7W]	700mA [10W]		350mA [3.5W]	500mA [5	5W]	700mA [7W]		
LED power (Max)***	4.2W	6W		8.4W		3.2W	4.5W		6.3W		
Delivered lumens (L ₁₀₀)****	363	477		647		211	272		348		
Lumens per circuit watt	73	73 68 6				61	55		50		
CRI (Typ)	85					90					
Forward voltage (V ₁₀₀)	14V					9V					
Colour consistency	2 SDCM					3 SDCM					
Peak intensity	6890 cd					1664 cd					
LED lumens	840					623					
LOR	0.77					0.63					
TM30	RF85		RG98			RF90 RG103					
UGR****	7.0					9.1					
LED lifetime	L90B5 at 90,000hrs	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)

ENVIRONMENTAL

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.
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^{*}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		TW - Tunable White					
Beam Angles	24°, 38°, 54°, 20° x 46°	38° colour mix lens	S	24°, 38°, 54°, 20° x 46°				
LED manufacturer	CREE	CREE		CREE				
Colour temperature	Red, Green, Blue, Amber	Red, Green, Blue, 4	1000K White	Warm White 2700K or 3000K	Cool White 4000K or 5000K			
Current	500mA	350mA	500mA	500mA				
LED power (Max)	7W	3.5W 5W		6.3W (7W) 3.5W per channel				
Applications								

MECHANICAL

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	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







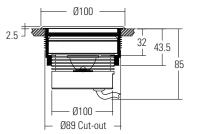


DIMENSIONS AND FIXING ACCESSORIES

Dimensions in mm

/483S First fix sleeve

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



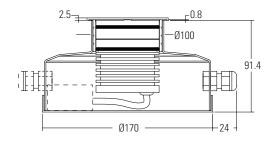


/ID Optional integral non dimming driver (single colour only at 350mA or 500mA).



/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 Concrete housing with 1x PG9 IP67 gland

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

FIXING MECHANISM













Ring is pulled up and expands the O ring, locking fitting into the housing







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









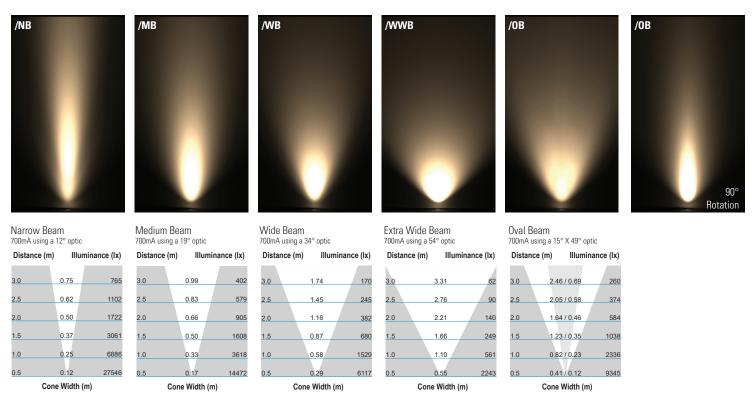




CONE DIAGRAMS

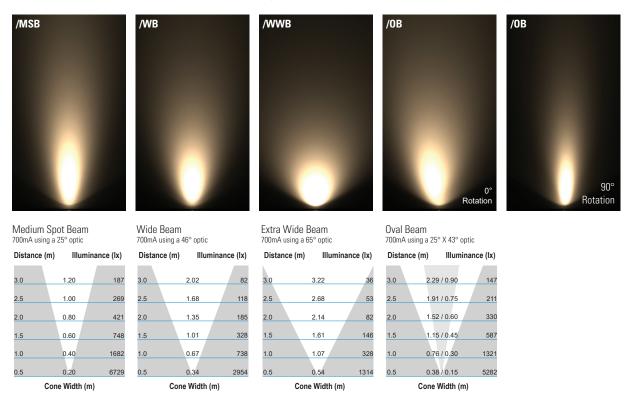
E3 LED Engine

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.





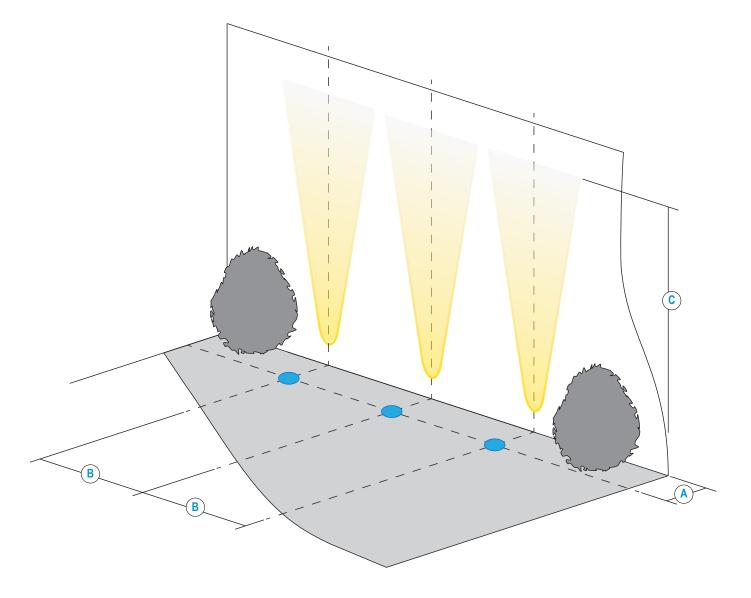






INSTALLATION GUIDE

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	3-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	J
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 Co	lour		Beam A	ngle		Glare shield		Finish		Fixing Accessories
		/			/			/		/		/	
WHITE LE	D ENGINES												
(H)	E3												
5W LED at 350mA	LD153-E3-350		Super Warm White (2200K)	/LW22		12° Narrow spot	/NB		(2)				
7W LED at 500mA	LD153-E3-500		Extra Warm White (2700K)	/LW27		19° Medium	/MB		400		210 20 11 20 1		(4000
10W LED at 700mA	LD153-E3-700		Warm White (3000K)	/LW30		34° Wide	/WB		/NGS		316 Stainless Steel		/483\$
			White (4000K) on request	/LW40		54° Extra wide	/WWB		(2)				
			Cool White (5000K)	/LW50		15° x 49° Oval	/OB		/GS		Polished & Passivated 316 Stainless Steel (for marine environments)		/484N
									/GSHM		0		/484N-2
0	F1								/03/11/1		Flamed Solid Bronze		/+0+11-2
3.5W LED at 350mA	LD153-F1-350		Super Warm White (2200K)	/LW22		25° Medium spot	/MSB						Super State of the
5W LED at 500mA	LD153-F1-500		Extra Warm White (2700K)	/LW27		46° Wide	/WB				Paint Finish		/ID
7W LED at 700mA	LD153-F1-700		Warm White (3000K)	/LW30		65° Extra wide	/WWB				Black (RAL 9005)		
			White (4000K) on request	/LW40		43° x 25° Oval	/OB						
			Cool White (5000K)	/LW50							Paint Finish White		
											(RAL 9016)		
											Paint Finish		

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.



RAL









ORDER CODES & OPTIONS

EXAMPLE: LD153-E3-700 / LW30 / NB / NGS / 316 STAINLESS STEEL / 483N

Light Engine & Drive Current	LED Co	lour		Beam A	ingle		Glare shield		Finish		Fixing Accessories
/			/			/		/		/	
COLOUR & DYNAMIC LED ENG	INES										
CLR CLR											
3.5W LED at 350mA LD153-CLR-500	Red	/LR		24° Medium	/MSB		(2)				
	Green	/LG		38° Wide	/WB		(3)				
	Blue	/LB		54° Extra wide	/WWB		/NGS		316 Stainless Steel		- /483S
	Amber	/LA		20° x 46° Oval	/OB		(2)				
RGBW							/GS		Polished & Passivated		/484N
3.5W LED at 350mA LD153-RGBW-350 —				38° Colour	mix lens		(3)		316 Stainless Steel (for marine environments)		
5W LED at 500mA LD153-RGBW-500			L								
							/GSHM		Flamed Solid Bronze		/484N-2
₩ TW									Flamed Solid Bronze		and the second
3.5W LED at 350mA LD153-TW-350	Tunable White 2700K & 4000K	/LW27 + LW40		24° Medium	/MSB				U		/ID
	(standard option)	T LVV40		38° Wide	/WB				Paint Finish		
	Tunable White 2700K & 5000K	/LW27 + LW50		54° Extra wide	/WWB				Black (RAL 9005)		
	Custom	/LW** + L**		20° x 46° Oval	/OB						
									Paint Finish White (RAL 9016)		
									(all color)		
									Paint Finish RAL		

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

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