

### **KEY FEATURES**

- E2 engine option featuring CREE LED, delivering up to 595 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 Stainless Steel, Brass, Flamed Bronze and paint finishes
- > 4 screws in the bezel are tightened to expand O-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 10° 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 and for accessory dimensions please go to page 4.





## WHITE LED ENGINE SPECIFICATION

Engine				● F1				
Beam angles	10°, 19°, 34°, 54°,	, 49° x 15°		25°, 46°, 65°, 43° x 25°				
LED manufacturer	CREE			CREE				
Colour temperature*	2700K / 3000K / 4	000K / 5000K		2200K				
Current	350mA	500mA	700mA**	350mA	700mA**			
LED power (Max)	4.2W (5W***)	6W (7W***)	8.4W (10W***)	3.2W (3.5W***)	6.3W (7W***)			
Delivered lumens (L <sub>100</sub> )****	361	474	595	211	272	348		
Lumens per circuit watt	73	68	60	61 55 50				
CRI (Min)	85+		'	90+				
Forward voltage (V <sub>100</sub> )	14V			9V				
Colour consistency	2 SCDM			3 SCDM				
Peak intensity	9052 cd			1664 cd				
LED lumens	873			623				
LOR	0.68			0.63				
TM30	RF85	R	G98	RF90 RG103				
UGR****	10.1	'		9.1				
LED lifetime	L90B5 at 90,000hr	S						
Applications								

These values are based around a LD153-E2-700-LW30-NB & LD153-F1-700-LW22-MSB

Lumen variance by CCT							
2700K	+/- 0%						
4000K	+7%						
5000K	+16%						

## **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)

<sup>\*</sup>see lumen variance table to the right
\*\*can only be specified with /483N concrete housing

<sup>\*\*\*</sup>indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

<sup>\*\*\*\*</sup>lumen output indicated is without the glare shield. Allow 30% less with the /GS glare shield.

<sup>\*\*\*\*</sup> 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, 4	000K 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 back cer	6mm thick toughened glass with back ceramic screen print								
Materials	Stainless steel bezel, anodised aluminiun	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**

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
- > 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 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

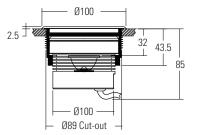
- Matt Black, Matt White, and other RAL colours available
- > Not recommended for footlights in high traffic areas
- > Interior & exterior use

## **DIMENSIONS AND FIXING ACCESSORIES**

Dimensions in mm

#### /483S

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



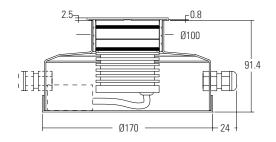


/ID Optional integral non dimming driver (single colour only at 350mA or 500mA).



#### /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.









Concrete housing with 2x PG9 IP67 gland

## **FIXING MECHANISM**

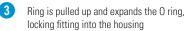












## **GLARE SHIELD OPTIONS**

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



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



Standard glare shield. This glare shield provides an excellent balance between glare control and lumen output and works well in most applications.



Half-moon glare shield. For applications that require very low glare. Lumen output typically reduced





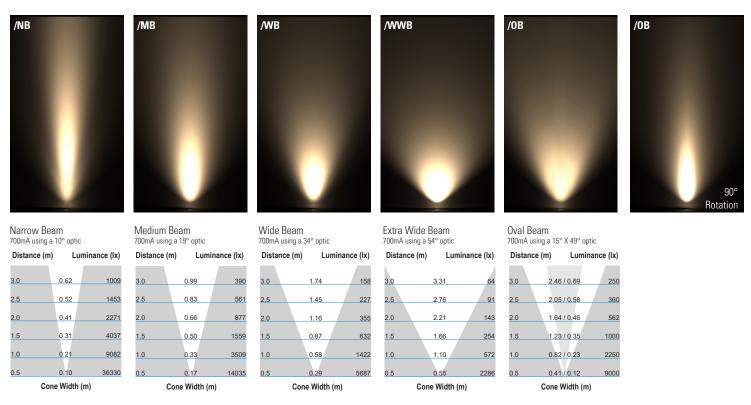




### **CONE DIAGRAMS**

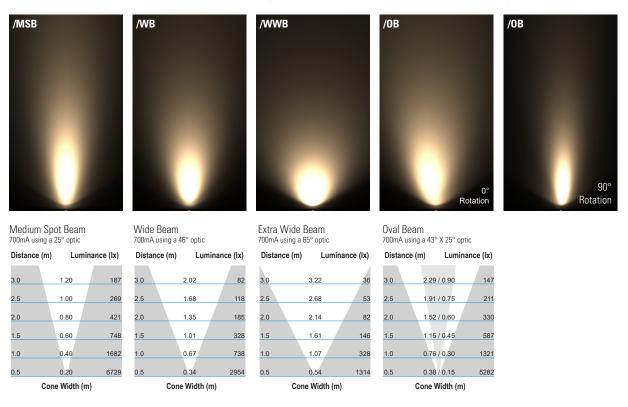
#### E2 LED Engine

Cone diagrams below are based on a 3000K E2 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

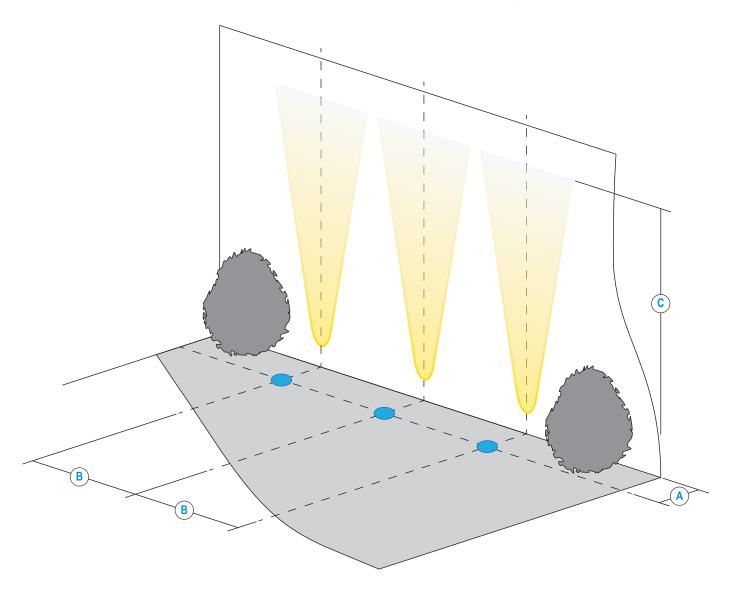
Cone diagrams below are based on a 3000K F1 LED engine run at maximum output 700mA, 10W. Images below represents beam outputs when wall washing a 3m wall, spaced 125mm away from the lit surface. Photometric files (LDT) are included in the design pack which can be downloaded from the LD153 product page 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-E2	/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 lo	ng
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				
C	500mA Lit distance	2.5m	2m	1.5m	3m			
C	700mA Lit distance	5m	4m	2m	4m			



# **ORDER CODES & OPTIONS**

Example: LD153-E2-700 / LW30 / NB / NGS / Stainless Steel / 483N

Light Engin	e & Drive Current		LED Colour			Beam Ang	jle		Glare Shield		Bezel Finish		Fixing Accessories
LD153 -		/			/			/		/		/	
WHITE LED	ENGINES												
$\oplus$	E2												
5W LED at 350mA 7W LED at 500mA 10W LED at 700mA	LD153-E2-350 LD153-E2-500 LD153-E2-700		Extra Warm White (2700K) Warm White (3000K) White (4000K)-on request Cool White (5000K)	/LW27 /LW30 /LW40 /LW50		10° Narrow spot 19° Medium 34° Wide 54° Extra wide 15° x 49° Oval	/NB /MB /WB /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	/WWB		/GS		Polished & Passivated 316		/483N
7W LED at 700mA	LD153-F1-700					43° x 25° Oval	/OB		(6)		Stainless Steel (for marine environments)		on po
COLOUR &	DYNAMIC LED EI	NGII	NES						/GSHM				/483N-2
	CLR										Flamed Bronze (antique finish)		
7W LED at 500mA	LD153-CLR-500		Red Green	/LR /LG		24° Medium 38° Wide	/MB						/ID
			Blue Amber	/LB /LA		54° Extra wide 20° x 46° Oval	/WWB				Paint Finish - Black		
	RGBW										(RAL 9005)		
3.5W LED at 350mA	LD153-RGBW-35	i0 -				38° Colour mix	( lens						
5W LED at 500mA	LD153-RGBW-50	10									Paint Finish - White		
											(RAL 9016)		
88	TW												
3.5W LED at 350mA	LD153-TW-350		Tunable White 2700K & 4000K (standard option)	/LW27 + LW40		24° Medium	/MB						
			Tunable White 2700K & 5000K	/LW27 + LW50		38° Wide 54° Extra wide	/WB				Paint Finish - RAL		
			Custom	/LW**		20° x 46° Oval	/0B						

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.