

KEY FEATURES

- Features an asymmetric beam with optics set at a 3° tilt, helping to reduce glare and focus the light where needed
- High-power P1 engine with CREE COB delivering upto 1375lm at 500mA in 3000K
- E3 engine with NICHIA LED delivering up to 631lm at 700mA in 3000K offering an $\,$ exceptional 10° extra narrow beam with peak intensity reaching 13,539cd
- N1 engine with CREE COB delivering up to 851lm at 700mA in 3000K offering a 14° narrow beam
- Durable all glass bezel, suitable for a wide range of applications
- Utilises large 50mm low glare optics, chosen for efficiency, quality of beam and ability to produce narrow beams at high outputs
- Low glare product with a choice of accessories to minimise the view of the light source at various angles
- Fixing options include rebated trimless fixing sleeve, concrete housing and trimless



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

DIMENSIONS

Dimensions in mm

For fixings and dimensions please go to page 3.











WHITE LED ENGINE SPECIFICATION

Engine	⊕ E3			O N1			P1			
Beam angles	10°, 12°, 23°	, 30°, 44°, 62°,	11° x 46°	14°, 25°, 31°	, 45°, 62°, 14° x	46°	20°, 28°, 34°, 48°, 63°, 20° x 46°			
LED manufacturer	NICHIA			CREE			CREE			
Colour temperature	2200K, 2700k	K, 3000K, 4000K	, 5000K	2200K, 2700k	K, 3000K, 4000K	, 5000K	2200K, 2700K, 3000K, 4000K, 5000K			
Current [Rated Output]	350mA [5W]	500mA [7W]	700mA [10W]	350mA [7W]	500mA [10W]	700mA [14W]	350mA [14W]	500mA [20W]		
Typical LED Circuit wattage	4.4W	6.4W	9.2W	6.4W	9.3W	13.3W	13.3W	19.6W		
Delivered lumens (L ₁₀₀)*	362	490	631	463	634	851	963	1375		
Delivered Im/Circuit W**	82	76	68	72	68	64	72	70		
Typical LED Source wattage	4W	5.8W	8.3W	5.8W	8.4W	12.0W	12.0W	17.6W		
Source LED Im	574	740	949	694	937	1264	1449	1983		
Source Im/W	144	128	114	120	112	105	121	113		
Forward voltage (V ₁₀₀)	11.3V	11.6V	11.8V	16.6V	16.8V	17.1V	34.3V	35.2V		
CRI	85			93			90			
Colour consistency	2 SDCM			2 SDCM			3 SDCM			
Peak intensity	13,539 cd			10,837 cd			10,060 cd			
LOR	0.66			0.67			0.69			
TM30	RF86 RG98			RF91 RF98			RF91 RG98			
UGR rating ('downlight' mounted)	6.4	7.4	8.2	5.8	6.8	7.8	8.6	9.7		
BUG rating ('uplight' mounted)	B0-U3-G0	B0-U4-G0		B0-U4-G0	B0-U5-G0		B0-U5-G1			
LED lifetime	L90B5 at 90,	000hrs		·						
Applications										

These values are based on LD154TG-E3-700-LW30-ENB, LD154TG-N1-700-LW30-NB and LD154TG-P1-700-LW30-NB

Lumen variand	ce by CCT
2200K	-7%
2700K	+/- 0%
4000K	+7%
5000K	+16%

MECHANICAL

	F0	Soil	-20°C to 50°C (350mA-500mA) or -20°C to 35°C (700mA)						
	E3	Concrete	-20°C to 50°C (350mA-700mA) in concrete						
Ambient temperature	N1	Soil	-20°C to 50°C (350mA-500mA) or -20°C to 35°C (700mA)						
Ambient temperature	INI	Concrete	-20°C to 50°C (350mA-700mA) in concrete						
	D1	Soil	-20°C to 50°C (350mA-500mA) or -20°C to 35°C (700mA)						
	P1	Concrete	-20°C to 50°C (350mA-700mA) in concrete						
Glass	6mm thick toughened glass with black ceramic screen print								
Materials	Black anodised aluminium body with black anodised bezel and glass front								
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

TM65	Available on request
TM66	2.5
Repair + Refurbish	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.







^{*}See lumen variance table to the right for N1 engine. E3 lumens apply across all colour temperatures

^{**}LED wattage includes losses assocaited with using a 90% efficient driver

DIMENSIONS AND FIXING OPTIONS

Dimensions in mm

/485SG

Rebated trimless fixing sleeve

The sleeve is bonded into the mounting surface first and the fitting is held in with an O-ring. We recommend this method for mounting in exterior in-ground applications.

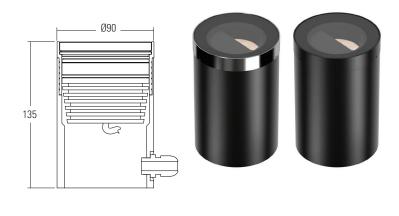
Mounting surface will require an 16mm rebate to allow for flush installation. Fixing ring available with a passivated stainless steel or powder coat black finish.*

16 71 85 Rebate depth Ø91 25 Ø80 Cut-out Ø86

/485GTG

Trimless Ground tube fixing

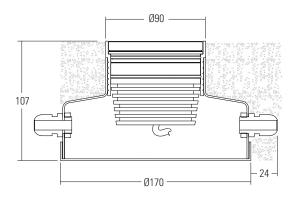
Designed for soil or gravel surfaces. It is supplied with the fixing sleeve bonded into the tube and can be cut down on site. The tube can be buried with the necessary wiring via the PG9 IP67 gland and then the fitting installed after the landscaping work has been completed. Fixing ring available with a passivated stainless steel or powder coat black finish.*



/485NG or /485NG-2

Trimless concrete housing

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. The housing can be buried with the necessary wiring, and then the fitting installed after the landscaping work has been completed. Weight: 2.90kg. Fixing ring available with a passivated stainless steel or powder coat black finish.*





/485NG

Trimless concrete housing with 1x PG9 IP67 gland



/485NG-2

Trimless concrete housing with 2x PG9 IP67 gland









/HT-154-G Trimless Family Hand tool

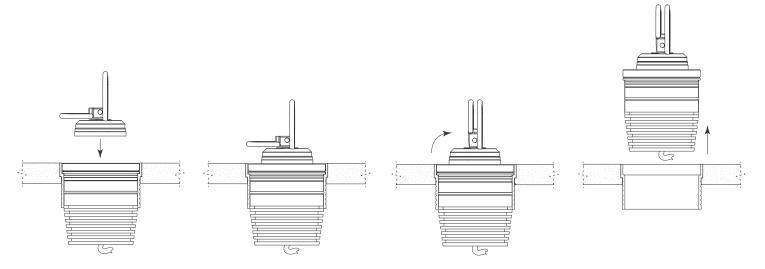
Our Trimless family fittings use a hand tool for easy intallation and removal that can be ordered separately. Use the /HT-154-G suction cup or a similar suction tool for the removal of the fittings from their fixing options. Please contact your LightGraphix sales representative for more information.



How to use the hand tool

Place suction cup over the glass surface and lock in place by pulling the leaver into a vertical postion.

Once secured, pull the fitting from its fixing accessory. Apply force vertically to ensure the suction cup does not detach.



When adjusting or rotating the fitting do not use the HT-154-G hand tool to move in situ. Remove the fitting entirely, realign and then place the fitting back into its fixing option. Note: Rotating the fitting while still in place may result in a comprimised IP seal.







GLARE CONTROL OPTIONS

/NGS No glare shield

No glare shield. Low glare optic and matt black anodised optic holder aids in glare reduction.

/GSHM154 Half-moon glare shield

For applications that require low glare. Lumen output is typically reduced by 60% with no light lost on the lit surface.

/GSOB154 Oval beam glare shield

Reduces the angles at which glare is visible without compromising the oval output of the beam. Useful when used in applications where glare can be seen from two sides, for example archways.

/HL Honeycomb louvre

Helps reduce glare from all angles and can be used with glare shields.









3° TILT

Both the LED and the optic are set at a 3° tilt, allowing for more efficient use of a glare shield, as more of the light output is directed towards the open aperture of the fitting.

Should there be any obstructions preventing installation, then the tilt also allows the luminaire to be placed further away from the lit surface, without comprismising on output.











INSTALLATION GUIDE

Below is an uplighting application guide with suggested luminaire mounting positions for an even wall wash. Every project and lighting scenario will be different and the table below is to be used as a starting point. Please use our photometric files to further test the desired effect for your application. Files are available on the LD154T product page on our website.

LD154	ITG-E3	/ENB*	/NB*	/MSB	/MB	/WB	/WWB	/0B
A	Distance from the centre of the fitting to the lit surface	0.4M	0.4M	0.45M	0.5M	0.65M	0.7M	0.4M
B	Spacing for an even wash	0.4M	0.45M	0.5M	0.7M	0.8M	0.85M	1M
C	500mA lit distance**	10M	7M	6.5M	5.5M	4.5M	4M	6M
C	700mA lit distance**	11M	8M	7M	6M	5M	4.5M	7M

LD154	TG-N1	/NB*	/MSB	/MB	/WB	/WWB	/0B
A	Distance from the centre of the fitting to the lit surface	0.4M	0.45M	0.5M	0.65M	0.7M	0.4M
В	Spacing for an even wash	0.4M	0.5M	0.7M	0.8M	0.85M	1M
C	500mA lit distance**	10M	8M	6.5M	5.5M	5M	7M
C	700mA lit distance**	11.5M	9M	7.5M	6.5M	6M	7.5M

LD15	4TG-P1	/NB*	/MSB	/MB	/WB	/WWB	/0B
	Distance from the centre of the fitting to the lit surface	0.45M	0.5M	0.55M	0.6M	0.7M	0.5M
B	Spacing for an even wash	0.5M	0.7M	0.75M	0.8M	0.9M	1.1M
C	350mA lit distance**	11M	9M	9M	7.5M	6M	8M
C	500mA lit distance**	14M	11M	10.5M	9M	8M	9M
					-	В	

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







 $^{{}^{**}} Illuminated \ distance \ is \ calculated \ based \ on \ achieving \ 10\% \ of \ the \ initial \ lux \ calculated \ at \ the \ start \ of \ the \ beam.$



ORDER CODES & OPTIONS - LD154TG

Example: LD154TG-E3-500 / LW30 / NB / GSHM154 / 485SG / Paint finish black

Light engine & drive current			LED Colour			Beam Angle			Accessory		Finish		Fixing
LD154TG	-	/			/			/ [/		/	
\oplus	E3												
5W LED at 350mA	LD154-E3-350		Super Warm White (2200K)	/LW22	_	10° Extra Narrow	/ENB						
7W LED at 500mA	LD154-E3-500		Extra Warm White (2700K)	/LW27		12° Narrow	/NB						
10W LED at 700mA	LD154-E3-700		Warm White (3000K)	/LW30		23° Medium Spot	/MSB						
			White (4000K) on request	/LW40		30° Medium	/MB		/NGS		/485SG		Passivated
			Cool White (5000K)	/LW50		44° Wide	/WB		/Nus		/40000		Stainless Steel
					J	62° Extra Wide	/WWB						
						11° x 46° Oval	/OB						
								,					
0	N1								/GSHM154		/485GTG		Paint finish Black (Powder Coat)
7W LED at 350mA	LD154-N1-350		Super Warm White (2200K)	/LW22	_	14° Narrow	/NB				Lancons .		
10W LED at 500mA	LD154-N1-500		Extra Warm White (2700K)	/LW27		25° Medium Spot	/MSB				e de la composition della comp		
14W LED at 700mA	LD154-N1-700		Warm White (3000K)	/LW30		31° Medium	/MB						
			White (4000K) on request	/LW40		45° Wide	/WB		/GS0B154		/485NG		
			Cool White (5000K)	/LW50		62° Extra Wide	/WWB						
					,	14° x 46° Oval	/OB						
											lo		
	P1												
14W LED at 350mA	LD154-P1-350		Super Warm White (2200K)	/LW22		20° Narrow	/NB		/HL		/485NG-2		
20W LED at 500mA	LD154-P1-500		Extra Warm White (2700K)	/LW27	-	28° Medium Spot	/MSB						
			Warm White (3000K)	/LW30	-	34° Medium	/MB						
			White (4000K) on request	/LW40	-	48° Wide	/WB						
			Cool White (5000K)	/LW50		63° Extra Wide	/WWB						
					ı	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.





