

# LIA Laboratory Limited



## Certificate of Product Certification

Certificate Number: **010-0140**

*This is to certify that 'Ground recessed luminaire'*

*Model Ref: LD154 (refer to Family variant table )*

Placed on the market by:

# LightGraphix

## Creative Lighting Solutions

20, Bourne Road Industrial Park,  
Crayford,  
Kent,  
DA1 4BZ,  
United Kingdom

**meet the requirements of the LIA Laboratory Product Conformity Scheme 'TSD-010'.**

**30 October 2024**

**Date of Initial Registration**

**30 October 2024**

**Date of Last Issue**

**30 October 2027**

**Date of Expiry**

The validity of this certificate is subject to continuing conformity with The LIA Laboratory Ltd.'s TSD-010 scheme requirements. The absence of any products listed on certificate but not on the LIA Laboratory certification website indicates that certification of that product is no longer valid.

This certificate supports the requirements of the UK Legislation, regulation UK SI 2016 No. 1101 – The Electrical Equipment (Safety) Regulations 2016 and/or EU Legislation, LVD directive 2014/35/EU.



theLIA  
Laboratory



5449

A handwritten signature in black ink, appearing to read 'Anton Borovy'.

Anton Borovy  
Certification Business & Accreditation  
Manager

**Signed on behalf of LIA Laboratory Ltd**

Issued by: LIA Laboratory Ltd, Stafford Park 7,  
Telford, Shropshire, TF3 3BQ

For verification of this certificate please visit  
[www.lialabcert.org.uk/certificates-search](http://www.lialabcert.org.uk/certificates-search)

**Manufacturer:**

Lightgraphix Ltd.,  
20, Bourne Road Industrial Park,  
Crayford,  
Kent,  
DA1 4BZ,  
United Kingdom

**Standard(s)**

IEC 60598-2-13:2006+Amd2:2016;  
BS EN 60598-2-13:2006+A2:2016;  
IEC 60598-1:2020;  
BS EN IEC 60598-1:2021+A11:2022

**National differences**

European national differences (CENELEC), AE, AR, AU, BR, CL, CO, ID, JP, KR, MX, MY, NG, NZ, RU, SA, SG, TH, TR, UA, VN, ZA

**Test report(s)**

CB1206

**Technical characteristics**

Protection class.....	Class III;
Protection against dust, solid object and moisture.....	IP67 / IP65;
Suitable for surfaces:.....	For normally flammable surfaces;
Classification of use:.....	For normal use;
Construction:.....	Metal body, glass diffuser;
Supply connection:.....	Tails;
Used lamp.....	LED module – non-user replaceable;
Ratings.....	700mA max. (constant current), 20W max., ta 50°C

Family Variants: Ground recessed luminaire				
Model number	Current (mA)	Light source	Fixing options	Ta rating
LD154##-N1 (All variants)	350 / 500 / 700	14W Max	<b>LD154 / LD154T / LD154DR / LD154DRG:</b>  /SC – Spring Clips /485S – First Six Sleeve /485N – Concrete Can /486GT – Ground Tube  <b>LD154DO / LD154TDO:</b> /485N-DO – Concrete Can	50°C
LD154##-E3 (All variants)		10W Max	<b>LD154G / LD154TG:</b> /485SG – First Six Sleeve /486NG – Concrete Can /486GTG – Ground Tube	
LD154##-P1 (All variants)	350 / 500	20W Max	<b>LD154 / LD154T / LD154DR / LD154DRG:</b>  /SC – Spring Clips /485S – First Six Sleeve /485N – Concrete Can /486GT – Ground Tube  <b>LD154DR / LD154G / LD154TG:</b> /SC – Spring Clips /485S – First Six Sleeve /486N – Concrete Can /486GT – Ground Tube  <b>LD154DO / LD154TDO:</b> /485N-DO – Concrete Can	50 °C

Model number	Current (mA)	Light source	Fixing options	Ta rating
LD141##-F1 (All variants)	350 / 500 / 700	7W  Max	<b>LD141X, LD141DR:</b>  /SC – Spring Clips  /441S – First Six Sleeve  /441N – Concrete Can  /441GT – Ground Tube	50°C  (at 350mA & 500mA)  35°C  (at 700mA)
LD141##-E3 (All variants)		10W Max	<b>LD141G/ LD141DRG:</b>  /SC – Spring Clips  /485S – First Six Sleeve  /485N – Concrete Can  /486GT – Ground Tube	
LD151#-F1 (All variants)	350 / 500 / 700	7W  Max	<b>LD151/ LD151T:</b>  /SC – Spring Clips  /484S – First Six Sleeve  /484N – Concrete Can  /484GT – Ground Tube	50°C
LD151#-E3 (All variants)		10W Max		
LD153-E3	350 / 500 / 700	10W  Max	<b>LD153:</b>  /483S – First Six Sleeve  /483N – Concrete Can	
LD153-F1		7W  Max		
LD155-E3	350 / 500 / 700	10W Max	<b>LD155:</b>  /SC – Spring Clips  /485S – First Six Sleeve  /485N – Concrete Can	
LD155-N1		14W  Max		
LD155-F1		7W  Max		

### Product code explanation

LDaaa##-bb-ccc-dddd/eee/fff

LD – Family name – LED products;

aaa – Light Engine – 141 / 151 / 153 / 154 / 155;

## - Bezel type / Position of the Luminaire – G (Trimless) / T (Tilted) / TG (Trimless Tilted) / DR (Deep Recess) / DRG (Deep Recess Compact Trimless) / DO (Drive Over) / X (Uplight);

bb – LED module – N1 (N1 LED Engine (CREE) - up to 14W @ 700mA) / E3 (E3 LED Engine (NICHIA) - up to 10W @ 700mA) / F1 (F1 LED Engine (CREE)- up to 5W @ 700mA) / P1 (P1 LED Engine (CREE) - up to 20W @ 500mA);

ccc – Operating current (mA) – 350 / 500 / 700;

dddd – Colour temperature (CCT) – LW22 (Super Warm White 2200K) / LW27 (Extra Warm White 2700K) / LW30 (Warm White 3000K) / LW40 (White 4000K) / LW50 (Cool White 5000K);

eee – Beam Angle – ENB (Extra Narrow) / NB (Narrow) / MSB (Medium Spot) / MB (Medium) / WB (Wide) / WWB (Extra Wide) / OB (Oval);

fff – Glare shield (only if applicable), reduction of light output – NGS / GSHM / HL / GSHM154 / GSOB154 /

Additionally, there is an option of choosing of colour and fixing device. Those options are not present on the product label.

Finish – 316 Stainless steel / Polished & Passivated 316 Stainless Steel / Paint finish black (RAL9005) / Paint finish classic bronze (YM262E) / Paint finish gunmetal grey (RAL 7021) / Paint finish white (RAL 9016) / RAL Colours (client specified) / Hard anodised aluminium / ;

Fixing options – SC / 485S / 485N / 486GT / 485N-DO / 485SG / 486NG / 486GTG / 486GT / 441S / 441N / 441GT / 483S / 483N