



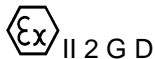
EU Type Examination Certificate CML 21ATEX3317 Issue 0

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **SPARTAN Mid Power Floodlight/Highbay**
- 3 Manufacturer **Raytec Ltd**
- 4 Address **Unit 15 Wansbeck Business Park,
Rotary Parkway, Ashington
Northumberland NE63 8QW,
United Kingdom**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018 EN IEC 60079-7:2015+A1:2018 EN 60079-18:2015+A1:2017
EN 60079-31:2014

- 10 The equipment shall be marked with the following:



II 2 G D

Ex eb mb IIC T4 Gb

Ex tb IIIC T90°C Db

Ta= -40°C to +60°C



**CML 21ATEX3317
Issue 0**

11 Description

The Spartan Mid Power Floodlight/Highbay are suitable for installation in Zone 1 environments with different mounting arrangements and orientations

The encapsulated LED assembly contains up to 48 LED circuits protected by encapsulation, located behind a glass window.

The assembly consists of a single enclosure containing suitably certified Ex Component terminals for connection of internal and field wiring using suitably certified cable glands. The window casting consists of diecast aluminium and glass.

Inside the enclosure consists of an encapsulated terminal board for supply and internal connections

The equipment will deliver between 5000 and 15000 lumens over a 110 to 277V range. Various beam patterns are available and also an emergency option. External mounting brackets will determine if it is a floodlight or Highbay luminaire.

12 Certificate history and evaluation report

Issue	Date	Associated report	Notes
0	20 Oct 2021	R13715A/00	Issue of Prime Certificate.

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification:

- i. The LED driver and encapsulated LED assembly shall each be subjected to an electric strength test in accordance with IEC/EN60079-18 Clause 9.2 using a test voltage of 1500Vac applied between the terminals and the surface of the encapsulant (covered in foil), for a period of 1 second.
Alternatively:
 - a) a voltage of 20% higher may be applied for 0.1 second
 - b) a d.c. test voltage is allowed as an alternative to the a.c. test voltage and shall be 170% of the specified a.c. r.m.s. test voltage. There shall be no flashovers.
- ii. The LED driver and encapsulated LED assembly shall each be visually inspected. No damage shall be evident, such as cracks in the compound, exposure of encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure of adhesion, or softening.
- iii. The equipment shall be subjected to an electric strength test in accordance with the requirements of IEC/EN60079-7 Clause 6.1 using a test voltage of 1500Vac applied between the supply terminals and frame, for a period of 1 second.
Alternatively, a d.c. test voltage is allowed as an alternative to the a.c. test voltage and shall be 170% of the specified a.c. r.m.s. test voltage.
- iv. The manufacturer shall ensure that requirements for suitable glands for use with this equipment are included in the instructions supplied with all equipment.

14 Specific Conditions of Use (Special Conditions)

None.

Certificate Annex

Certificate Number CML 21ATEX3317
Equipment SPARTAN Mid Power Floodlight/Highbay
Manufacturer Raytec Ltd



The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
1250-A-0003	1 of 1	A	20 Oct 2021	Light Engine Assembly 15K Lumen Medium Power Flood
1250-SD-0001	1 to 2	A	20 Oct 2021	Spartan Mid Power LED Floodlight/Highbay
1250-SD-0002	1 to 3	A	20 Oct 2021	PCB Schematic SPARTAN MPFL Power Supply
1250-SD-0003	1 to 5	A	20 Oct 2021	FMEA-Resistors-Spartan MPFL Power Supply
1250-SD-0004	1 of 1	A	20 Oct 2021	Parts List Spartan MPFL power Supply
1250-SD-0005	1 of 1	A	20 Oct 2021	Thermal Fuse Conditions