

T e s t R e p o r t

Report No. : L19724A
Client : Red Light Rising
11 Oakley Wood Drive
Solihull
B91 2PH
Description : LED Red Spotlight
Manufacturer : Red Light Rising
Type/Models : TL670
Test Specification : EN 62471:2008 Clause 5.1 excluding hazard classification
Date(s) of Testing : 12/01/2022
Conclusion : Refer to body of report
Date of Issue : 31/01/2022

Tested by: **G. JOHN**
Position: Technical Manager -
Photometry

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Approved by: **T. MALIK**
Position: Head of Compliance

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INTRODUCTION

Red Light Rising have supplied the product identified in Table 1. for evaluation in accordance with the specification detailed on page one of this report.

PRODUCT DETAILS

Table 1. Product Details

Product Description	LED Red Spotlight
Model No.	TL670
Number of Samples	One
Date of Receipt	10/12/2021
Condition on Receipt	Good
Nominal Dimensions	Ø.115mm x H.230mm
Product Supply Requirement	240V AC 50Hz
Lamp Type and Power	LED, 15W
Sampling Method: Test samples selected and supplied by client, no sampling method specified by client.	

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TEST SETUP

Table 2. Test Procedure and Equipment Used

Test Standard	EN 62471:2008 Clause 5.1 excluding hazard classification
Equipment Used	Bentham IDR300-PSL Double Monochromator (249)
Standard Lamp Used	CL6 Irradiance Standard (272), CL7 Irradiance Standard (364)
Standard Lamp Traceability	Spectral Lamp 1036091
Power Supply	RS 4A Bench Top Variac (295)
Power Measurement	N4L 3 phase power analyser (279)
Temperature Measurement	Testo Thermometer (142)

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RESULTS

Table 3. Irradiance Results

Distance (mm)	Irradiance for 600-780nm (mW/cm²)
100	94.58
150	78.06
200	55.96
300	33.40
500	13.96
670	8.00
1000	3.95
1500	1.83
Operating Conditions	
Ambient Temperature (°C)	24.1
Voltage (V)	240.35
Current (mA)	126
Power (W)	15.249
Power Factor	0.503

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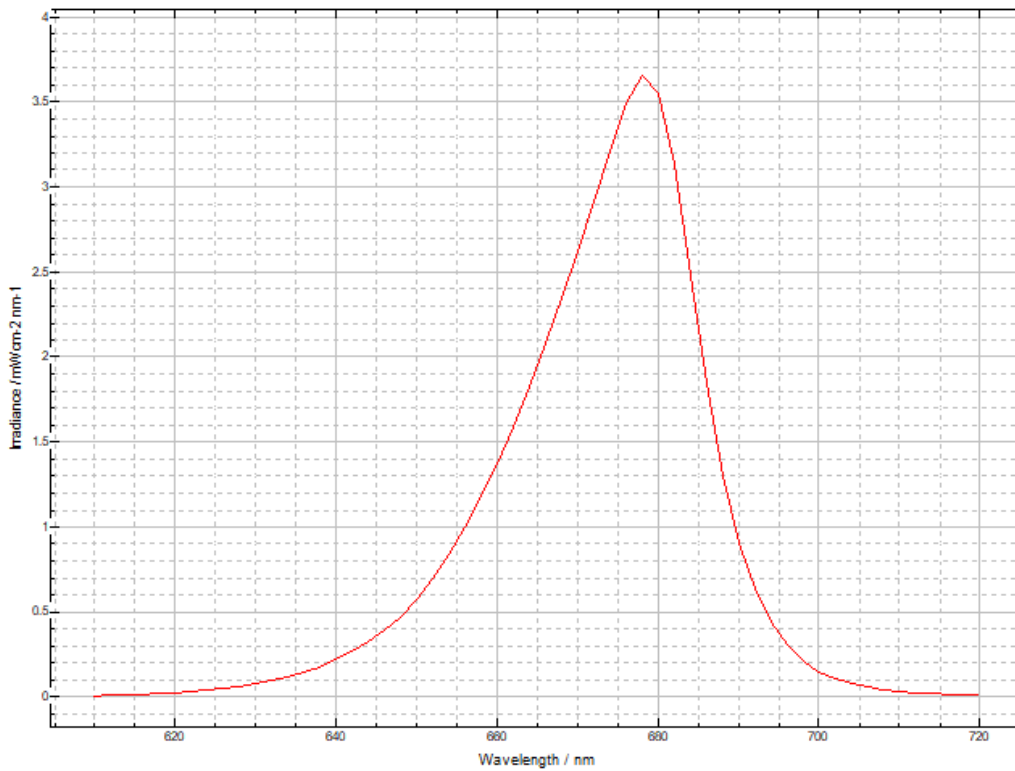


Figure 1. *Spectrum for irradiance at 100mm*

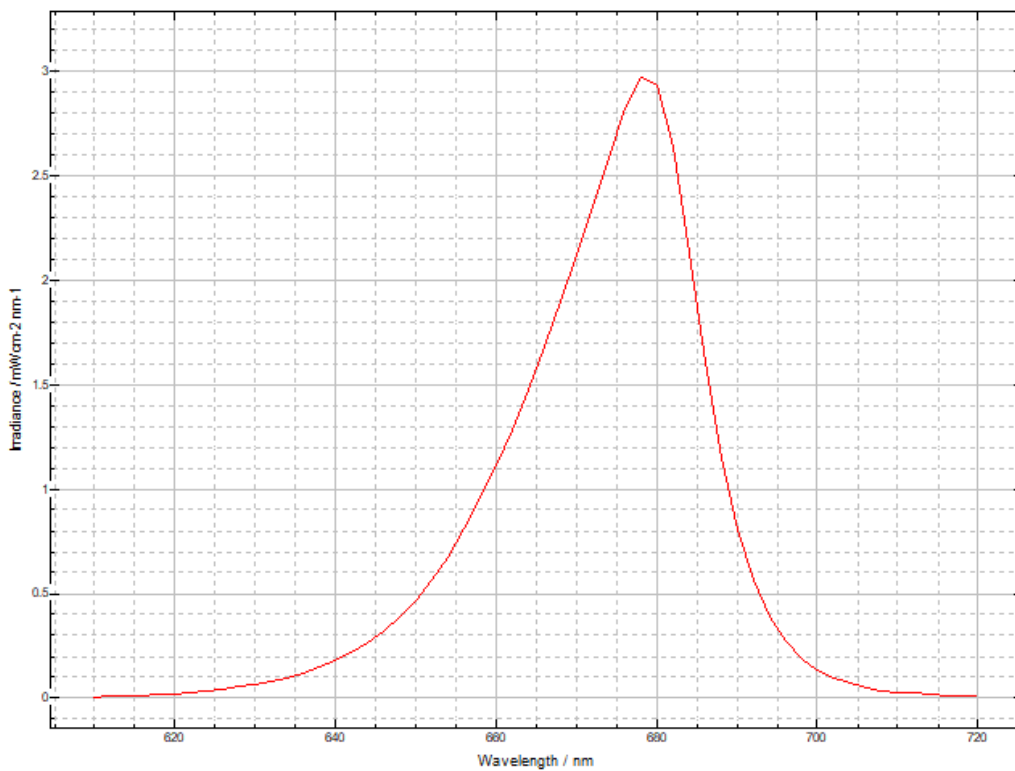


Figure 2. *Spectrum for irradiance at 150mm*

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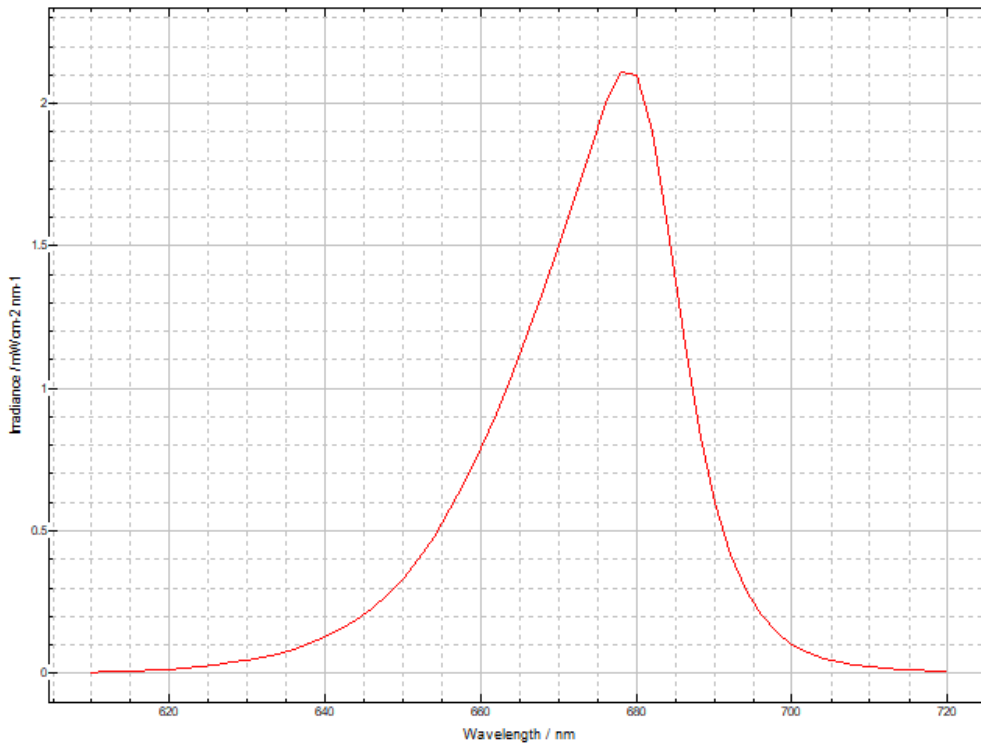


Figure 3. *Spectrum for irradiance at 200mm*

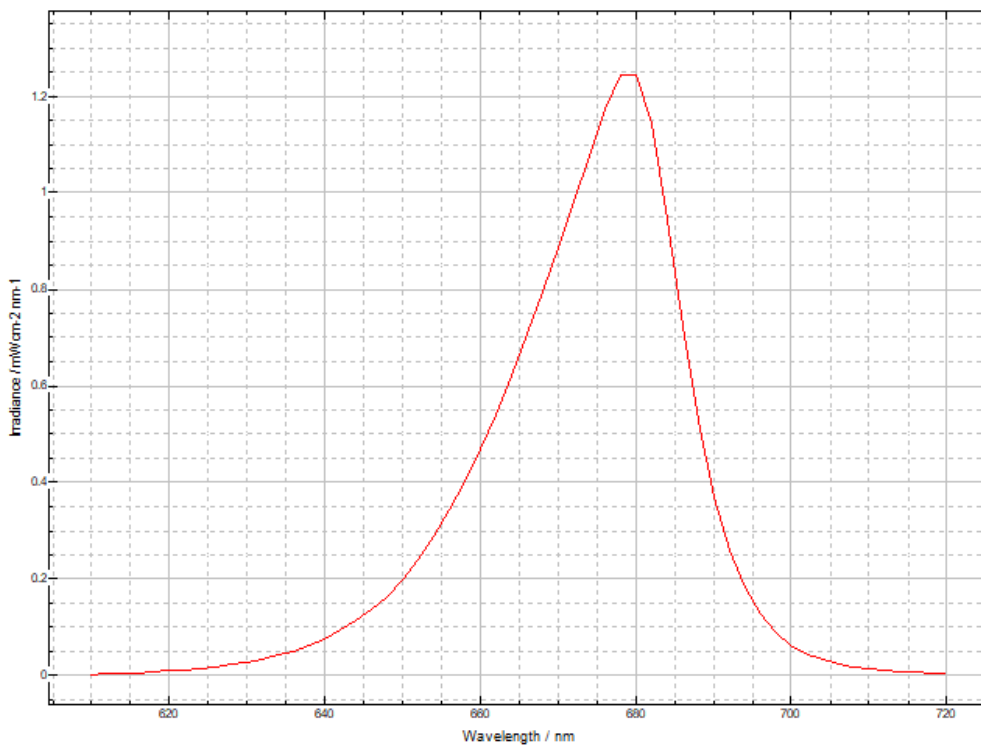


Figure 4. *Spectrum for irradiance at 300mm*

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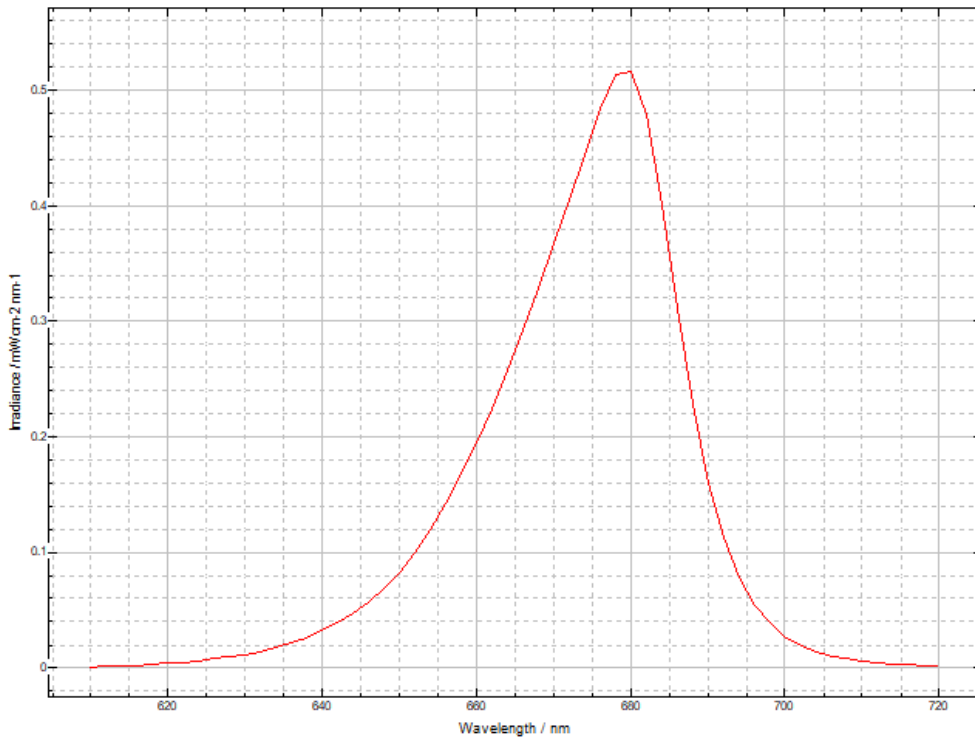


Figure 5. *Spectrum for irradiance at 500mm*

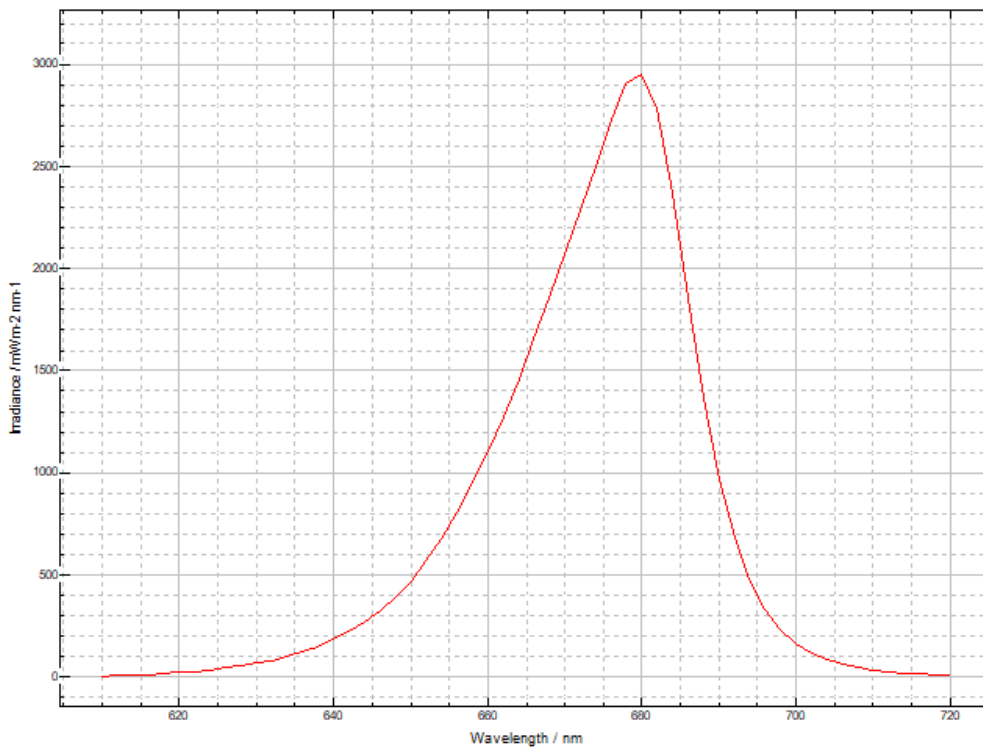


Figure 6. *Spectrum for irradiance at 670mm*

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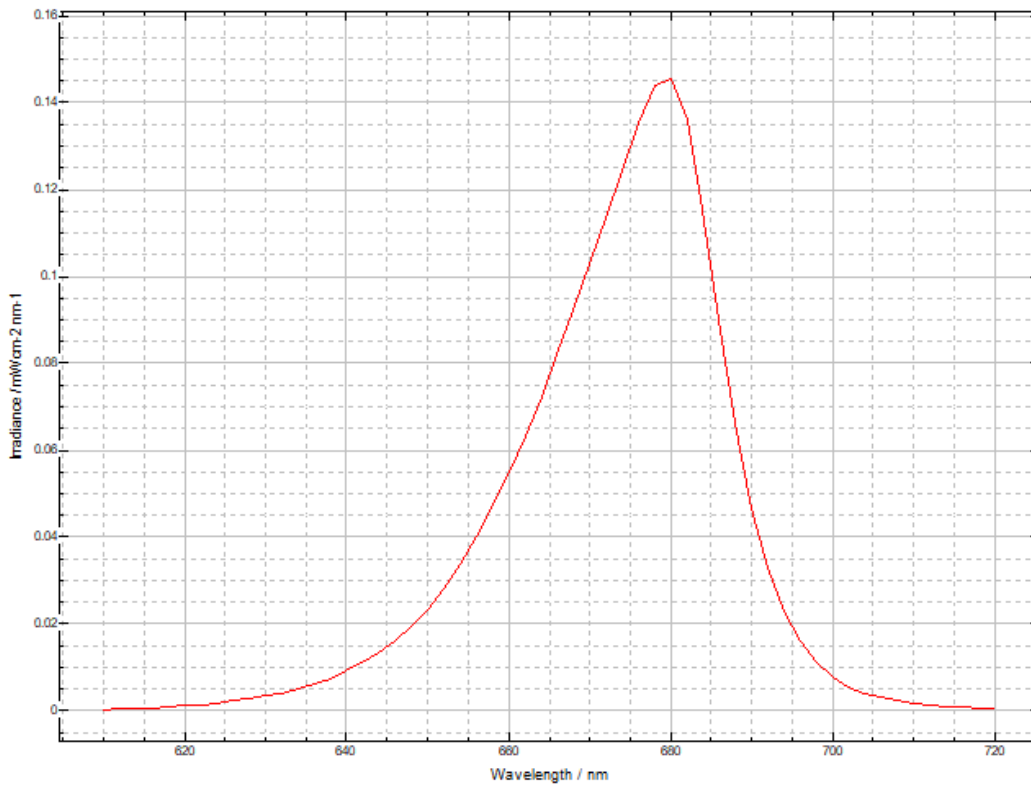


Figure 7. Spectrum for irradiance at 1000mm

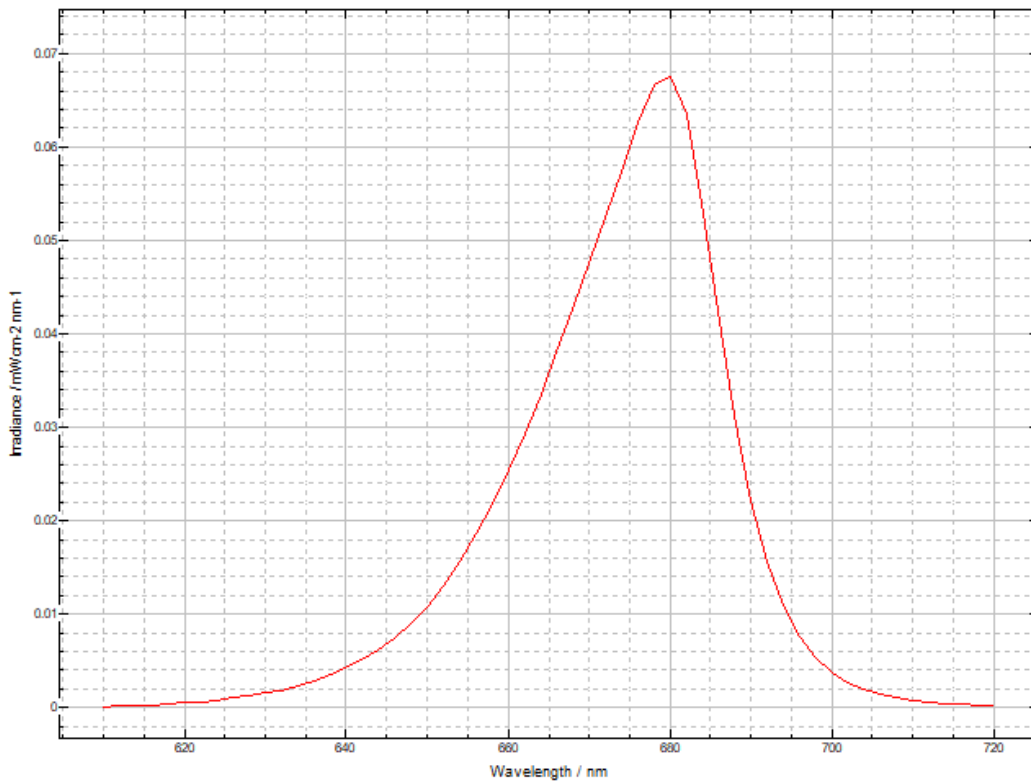


Figure 8. Spectrum for irradiance at 150mm

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DEVIATION(S) FROM TEST STANDARD

No reported deviations from test standard.

ILLUSTRATION

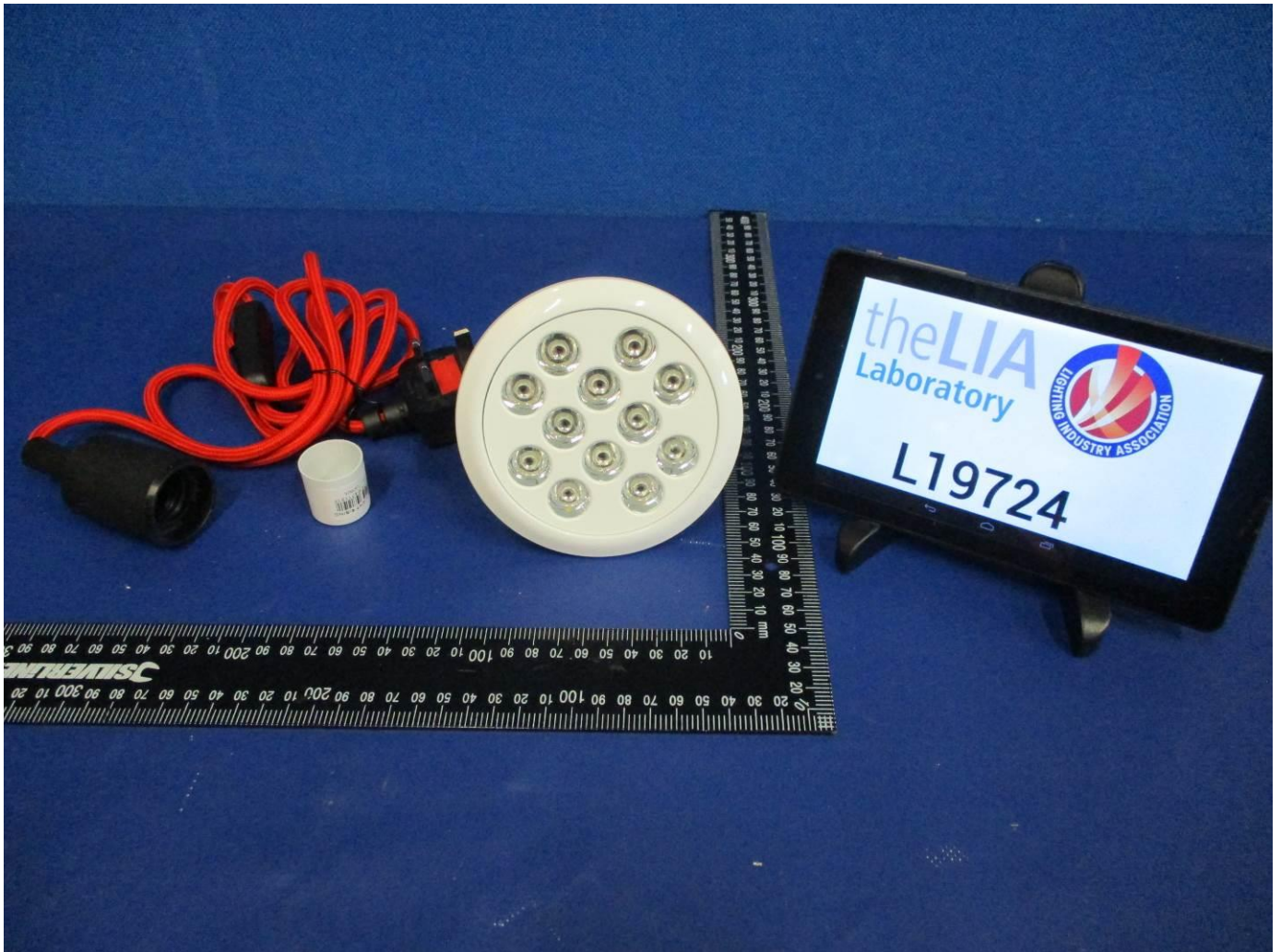


Figure 8. *Product image*

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