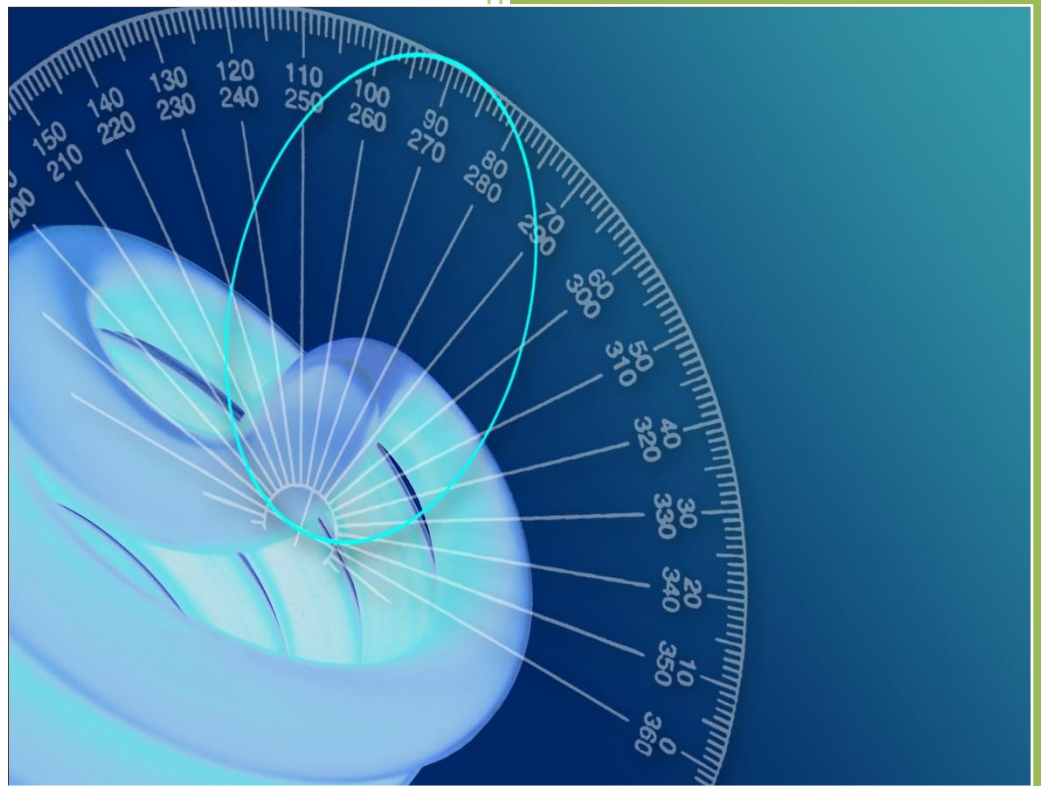


# Photometric Test Report



Photometric and Optical Testing  
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## POTS Photometric Test Report

Report Number: POTS/12011_7	Report Date: 03-02-2012	Prepared By: G John
Test Laboratory: Photometric and Optical Testing Services, Cotswold Business Centre, 42 A P Ellis Road, Rissington Business Park, Upper Rissington, Gloucestershire, GL54 2QB		
Company Registration Number: Registered in England & Wales No. OC352911		
Registered Address: Thistle Down Barn, Holcot Lane, Sywell, Northampton, NN6 0BG		

### Client Details

Contact:	Company: TLC Southern Ltd
Address: The TLC Building, 5 Newton Road, Crawley, West Sussex, RH10 9TS	

### Details of Product Tested

Manufacturer: TLC	Source Type: Ceiling panel light
Model: LTMOD45CW WHITE	Serial Number:
Description: LED PANEL	
Lamp Type: LED	
Power Supply Used: Interruptible AC power supply	
Input voltage(V): 241.0	Input Current (mA): 269
Input power(W): 44.13	Power factor: 0.684
Length of luminaire (mm):600	Width of Luminaire (mm): 600
Height of luminaire (mm): 40	

Results	
Flux (lumens): 3291.4 lumens	
CIE 1931 Chromaticity Cx: 0.3484	CIE 1931 Chromaticity Cy: 0.3594
CRI (%): 80.8	CCT (K): 4999

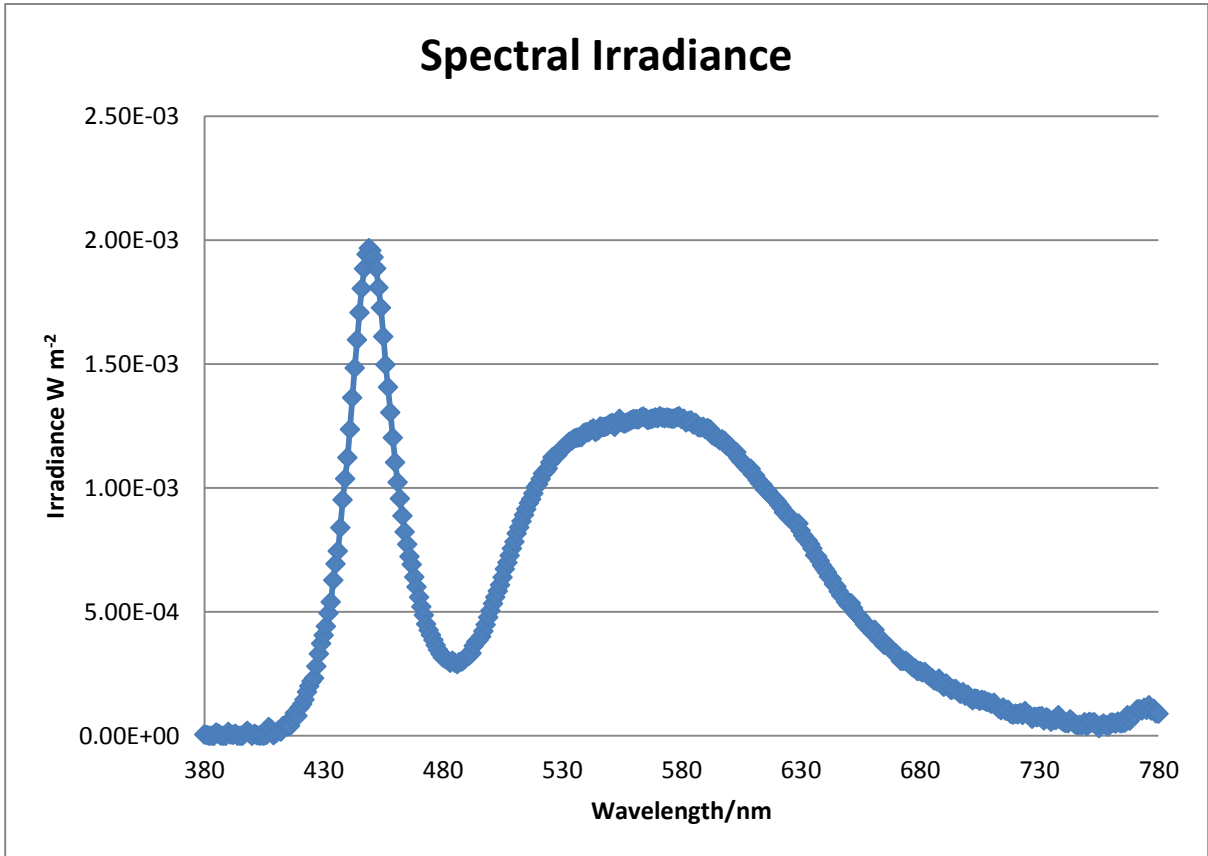


Figure 1: Spectral Irradiance

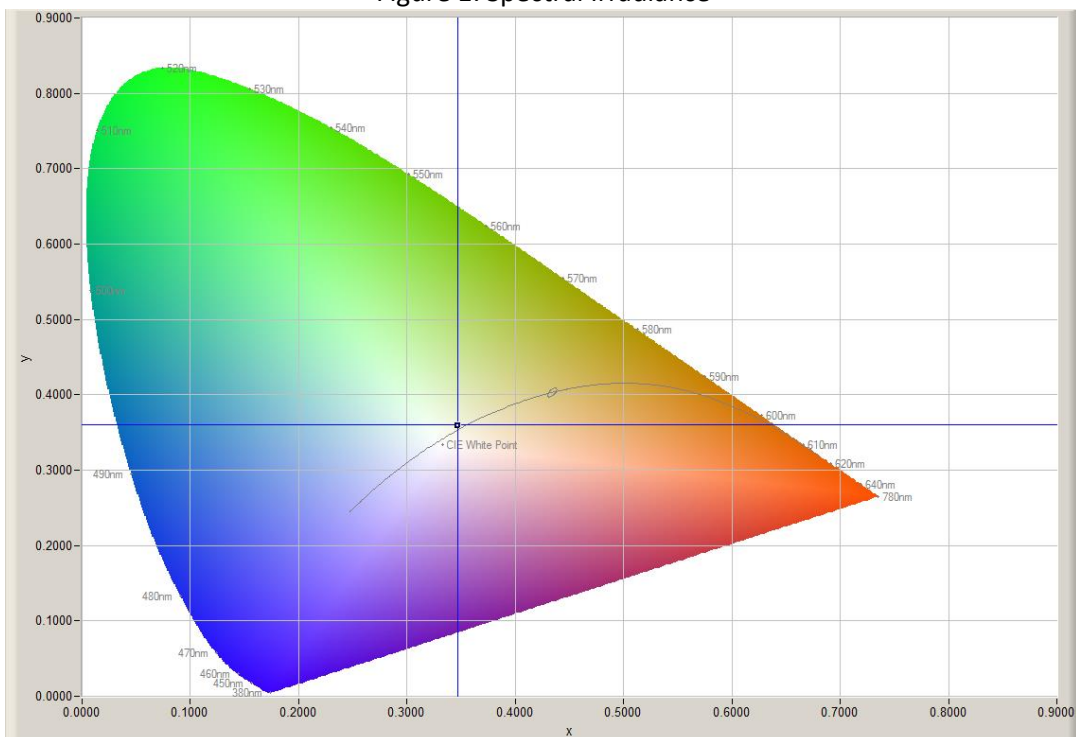


Figure 2: CIE 1931 2° Chromaticity Diagram

Goniophotometer Test		
Date of Test: 02-02-2012	Ambient Temperature: 25°C	
Measurement Filename: LTMOD45CW WHITE_2		
Instrument Used: Radiant Imaging NFMS0800 Goniometer with ProMetric PM-1200N-1 Imaging Photometer		
Photometer Working Distance: 4m	Measurement Geometry: Near-Field	
Comments:		
Reference Photometer Used: Specbos1201	Reference Photometer Serial Number: 2911670	
Traceable: to NPL standards, UKAS Accredited	Calibration Certificate Number: 121104	
Calibration Certificate Date: 25 <sup>th</sup> October 2011	Sample Stabilisation Time (minutes):60	
Reference Photometer Calibration Uncertainty: $\pm 2.4\%$ ( $k=2$ , 20-200 lux, CIE illuminant A source)		
Scan Set Up		
Direction	Range	Increment
Inclination Zone 1	0-90°	3°
Azimuth	0-360°	10°
Results (after stabilisation)		
Integrated Luminous Flux (lumens): 3291.4	Peak Intensity (1° Spot, candelas): 1238.0	
Beam Angle (50% of max intensity C0-180, degrees): 107.5		
Photometric Filename (IES LM-63-2002): LTMOD45CW		
IES File – Absolute or Relative Format? Absolute		
Photometric Filename (EULUMDAT): LTMOD45CW		
EULUMDAT File – Absolute or Relative Format? Absolute		

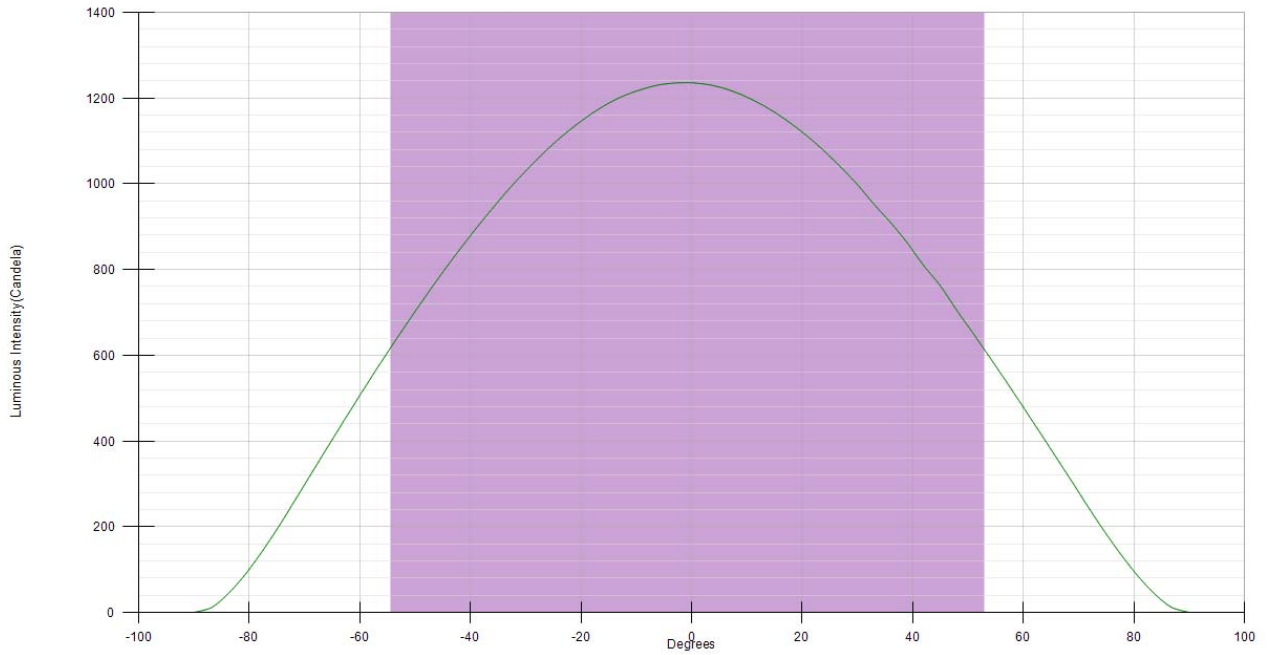


Figure 3: Far-Field Luminous Intensity (C0-180, Cartesian Coordinates)

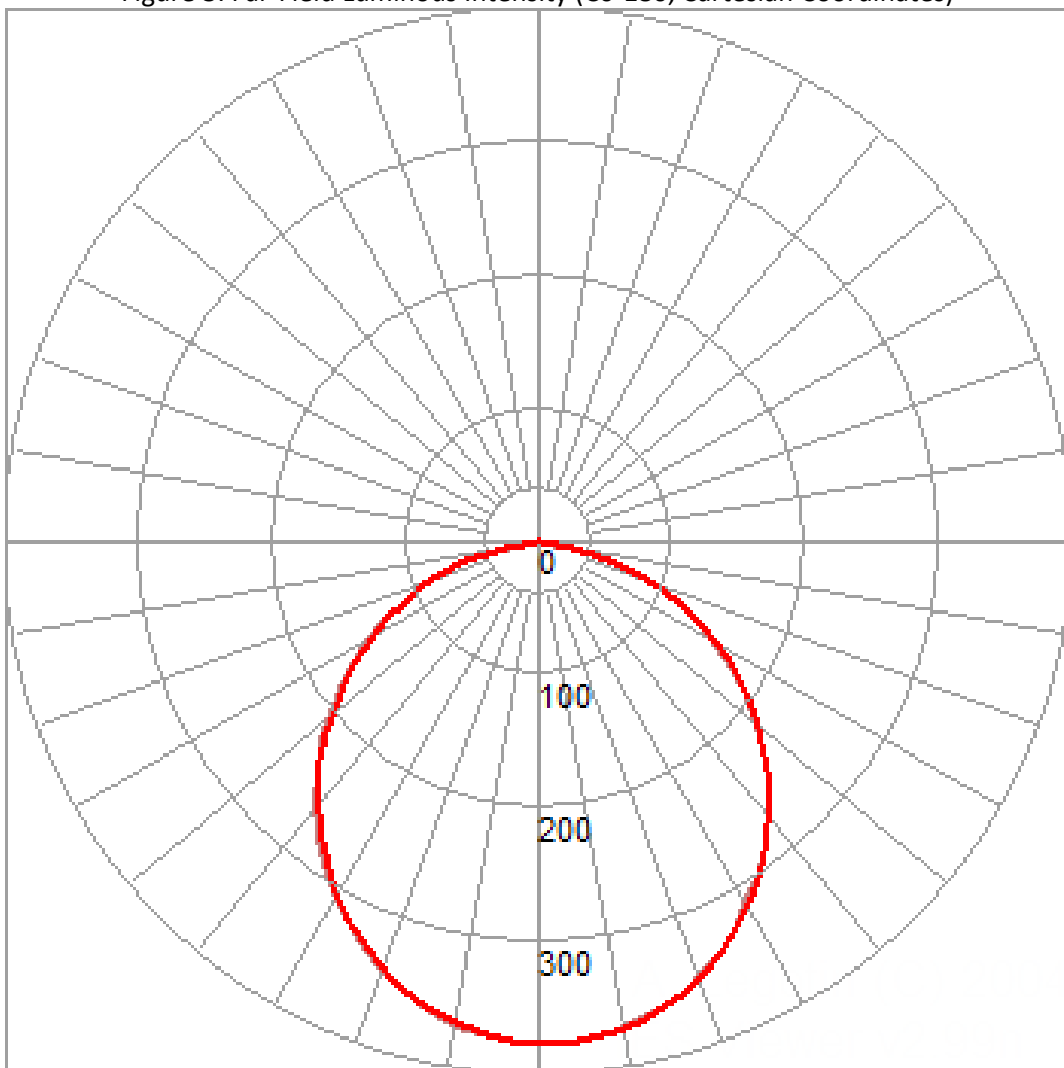


Figure 4: Far-Field Luminous Intensity (C0-180, C90-270, Polar Coordinates)

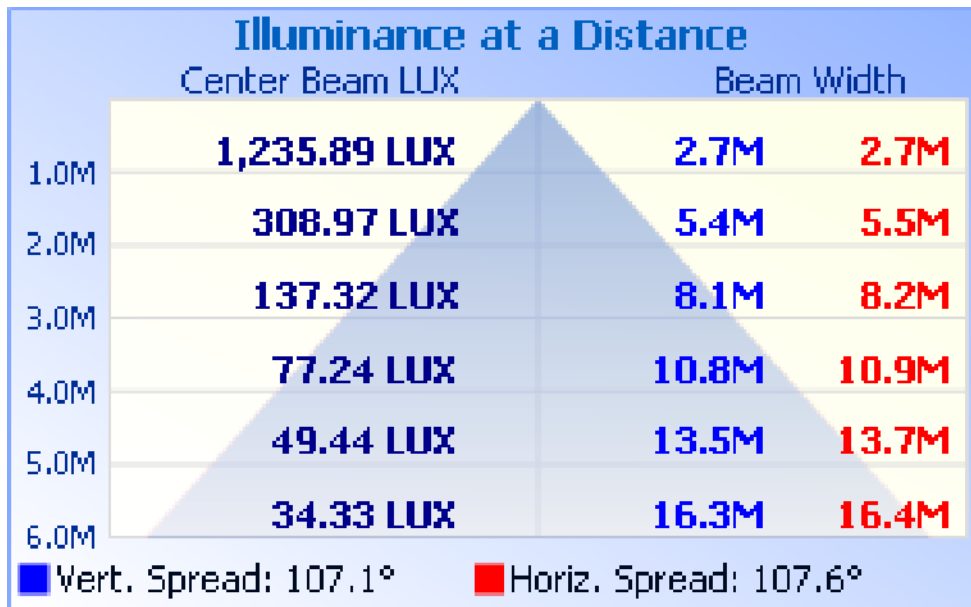


Figure 5. Illuminance cone diagram.



<b>8</b>	10.3	11.2	10.8	10.7	11.8	11.3	11.4	10.4	10.9	10.3	10.4	9.0	9.3	8.7	8.6	7.2	7.0	8.0	10.7	12.5	10.3	9.5	10.0	9.1	9.0	8.2	9.3	9.4	9.9	9.4	10.8	11.5	13.0	12.7	13.8	15.9
<b>7</b>																																				
<b>9</b>	0.4	2.3	2.6	1.9	1.9	0.6	0.6	1.5	1.3	0.6	1.1	0.4	0.4	0.3	0.4	0.3	0.4	0.4	0.4	1.0	1.3	0.4	0.4	0.2	0.3	0.3	0.5	0.3	0.5	0.3	0.4	0.3	1.3	0.5	1.8	1.3
<b>0</b>																																				

Table 1. Luminous intensity values



Signature:

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Print Name:

GH JOHN

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Date:

03-02-2012

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Partner / Director

*Duly authorised to sign on behalf of:*

Photometric and Optical Testing Services LLP