

T e s t R e p o r t

Report No : L18193B Amd1
Client: : LITETECH INDUSTRIES LLC
STREET#13B, RAS AL KHOR INDUSTRIAL AREA
AL AWEER
DUBAI UAE
DUBAI
Description : LT LED Recessed Snowplan 40
Manufacturer : LITE-TECH
Type/Models : SNOWPLAN LTS40
Test Specification : IES LM-79-08 Clause 9.1
Dates of Testing : 19/03/2019
Conclusion : Refer to body of report
Date of Issue : 25/03/2019
Date of Expiry : 21/03/2024

Tested by: N.GABIR
Position: Technical Lead -
Photometry



Approved by: D.CHAMBERS
Position: Engineer



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INTRODUCTION

LITETECH INDUSTRIES LLC have supplied the product identified in Table 1. for evaluation in accordance with the specification detailed on page one of this report.

Please note the amendment on this report refers to the manufacturer and model name only.

PRODUCT DETAILS

Table 1. *Product Details*

Product Description	LT LED Recessed Snowplan 40
Model No.	SNOWPLAN LTS40
Number of Samples	One
Date of Receipt	21/03/2019
Condition on Receipt	Good
Nominal Dimensions	H – 600,W- 600
Product Supply Requirement	220-240V AC 50-60Hz
Lamp Type and Power	LED, 40W

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TEST SETUP

Table 2. Test Procedure and Equipment Used

Test Standard	IES LM-79-08 Clause 9.1
Equipment Used	1.8m diameter 4 π sphere-spectroradiometer (105)
Standard Lamp Used	SCL-1400-G124
Standard Lamp Traceability	NIST-RF0816
Power Supply	Elektro-Automatik ACP-309 AC Power Supply (415)
Power Measurement	N4L single phase power analyser (394)
Temperature Measurement	Thermometer (143)

Table 3. Lamp Conditioning

Sample ID	L18193
Lamp ageing Time (Mins)	0
Stabilisation Time (Mins)	60
Total Operating Time (Mins)	82
Support Structure	Suspended
Orientation in Test	Lamp cap up

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RESULTS

Table 4. Colorimetry Results

Sample ID		L18193
COLORIMETRY	x coordinate	0.3113
	y coordinate	0.3273
	u coordinate	0.1975
	v coordinate	0.3115
	u' coordinate	0.1975
	v' coordinate	0.4672
	Dominant Wavelength (nm)	474.7
	Purity (%)	0.7
	Colour Temperature (K)	6595
	Ra (%)	84.5
	R1 (%)	83.2
	R2 (%)	88.3
	R3 (%)	90.5
	R4 (%)	84.9
	R5 (%)	83.6
	R6 (%)	82.7
	R7 (%)	89.2
	R8 (%)	73.3
	R9 (%)	16.7
	R10 (%)	71.1
	R11 (%)	84.3
	R12 (%)	59.4
	R13 (%)	84.8
R14 (%)	95.0	
Lumen Output (lm)	3646	
Efficacy (lm/W)	94	
OPERATING CONDITIONS	Ambient Temperature (°C)	25.6
	Voltage (V)	240.1
	Current (mA)	163.13
	Power (W)	38.59
	Power Factor	0.99

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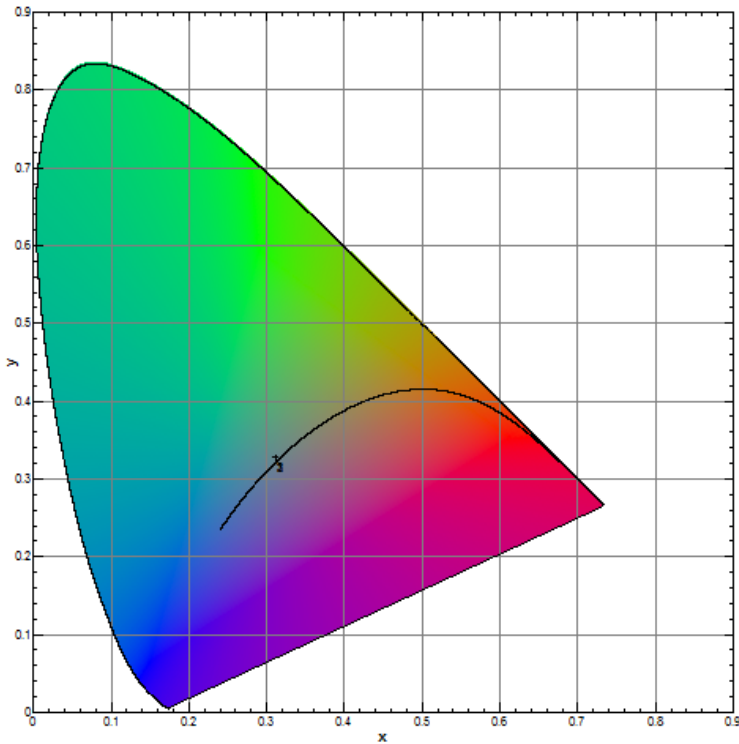


Figure 1. CIE 1931 diagram for sample L18193

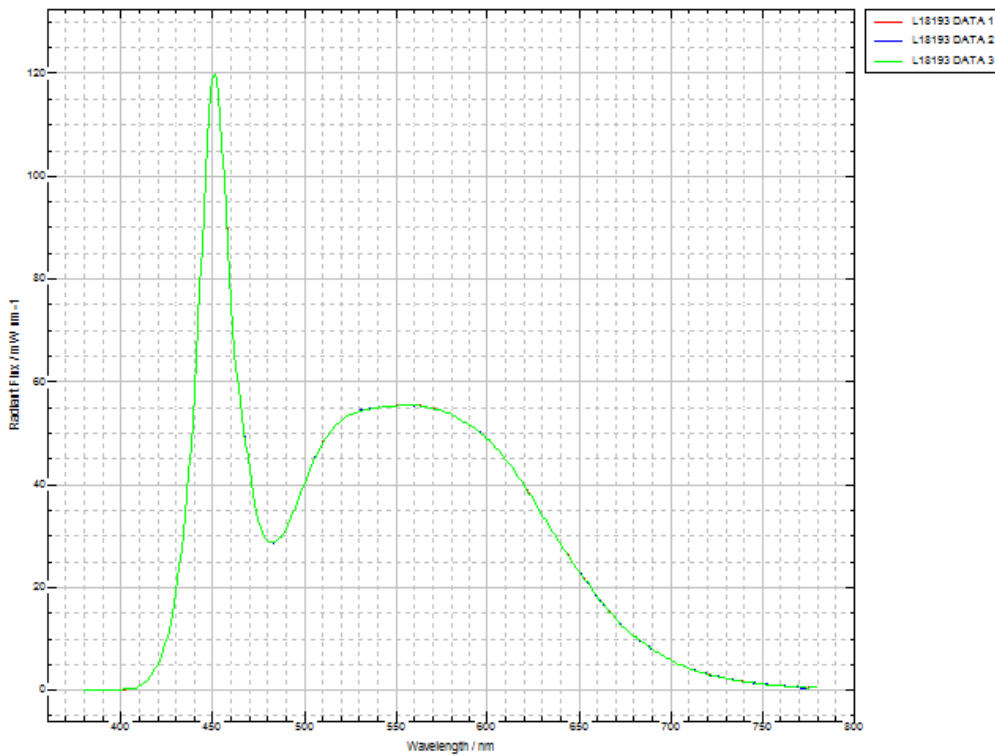


Figure 2. Total spectral flux for sample L18193

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DEVIATION(S) FROM TEST STANDARD

No reported deviations from test standard.

MEASUREMENT UNCERTAINTY

The following expanded uncertainties apply to the measurements shown in the results;

Value	Uncertainty (+/-)
Lumens	4.20%
x	0.0032
y	0.0056
u'	0.0004
v'	0.004
CCT	267
CRI	3.06

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

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SCHEMATIC DIAGRAM & IDENTIFICATION OF PHOTOMETRIC CENTRE

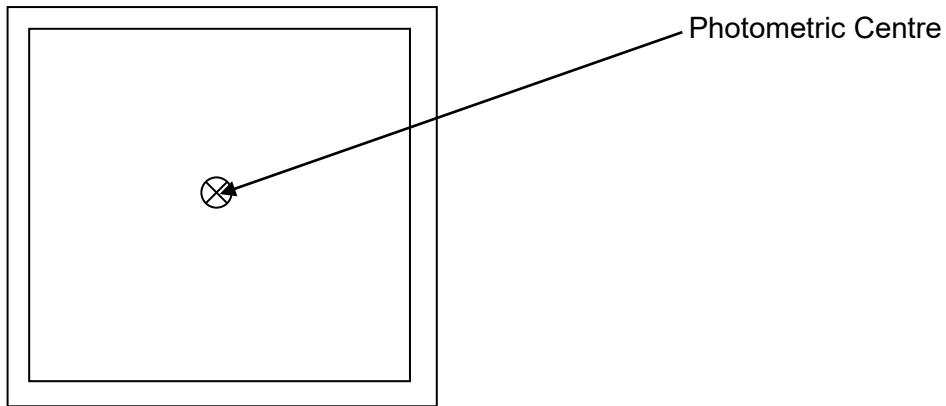


Figure 3. *Product dimensions and photometric centre*

ILLUSTRATION



Figure 4. *Product image*

End