

Light Emission Distribution Laboratory

Division of Photometry & Electrical Testing Pty. Ltd

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Accredited for
Compliance
with ISO/IEC
17025
Accreditation
No. 19541

PHOTOMETRIC TEST REPORT No. 201144PH

Date: 23rd November 2020

Client: Offspring Profiles Ltd.
Address: 40 Austin Street, Onekawa, Napier NZ.
Contact: Robin Campbell

Luminaire: SWEET 16

Catalogue No. SWEET 16

Description: Offspring Profiles LED extrusion Sweet 16 with
Opal diffuser (direct) and two clear diffusers (Indirect)

Optical System: Offspring Profiles Super Series 20W-4000K
DIRECT, 14W-40000K x 2 INDIRECT

Control Gear: Lisun DC3010 DC Supply

Test Specification:

The luminaire was tested in accordance with the procedures given in IES LM79-19, "Optical and electrical measurements of Solid-State Lighting Products" using the **absolute** method.

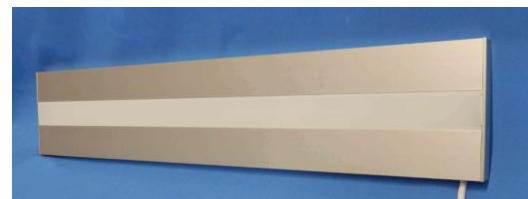
Results:

When tested at an ambient of 25°C at a supply voltage of 24VDC, the luminaire consumed 1.029A and 24.7W. That is, Lamp Circuit Power (LCP), which includes power supply losses, is 24.7W.

The Total Luminous Flux was measured as 2193 Lumens.

The Correlated Colour Temperature was measured as 3902K average.

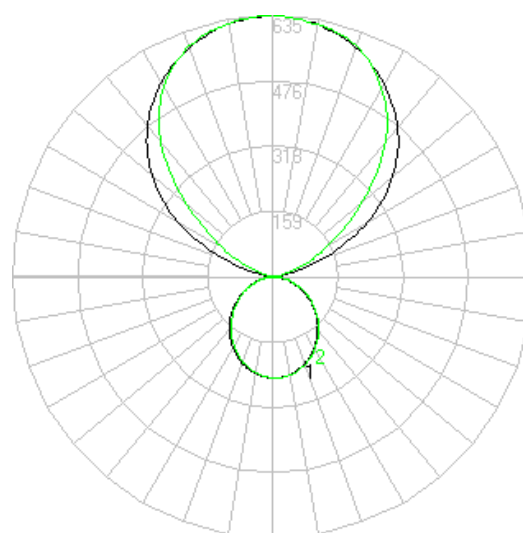
Luminous Intensity Distribution (I-TABLE) is given on Page 5.



Direct



Indirect



C0-C180° Vertical Plane

C90-C270° Vertical Plane

Signature

Tested by: B. Real/ J. King on 16th November 2020

Authorised Signatory: _____

A. Yetendje



Test Configuration

The luminaire was photometered in IESNA Horizontal – Vertical Reference angles such that:

- The luminaire was mounted with photometric centre aligned with photometric zero (in the direction of nadir), centred on the light emitting area.
- The supply wires were located on the 0° Horizontal angle, photometric horizontal, in the zero-degree photometric plane.
- In accordance with CIE S 025/E:2015 Clause 5.3.2 midway between Direct and Indirect Diffusers was co-incident with centre of the goniophotometer.
- The long dimension of the optical opening in the direction of the H= 0° - 180° Plane.
- The photometric test distance of 9.85m, is referenced to the photometric centre of the luminaire and the photocell.

Due to the Type B mounting arrangement, a correction factor to achieve correct orientation was determined but not applied as it was less than 0.5% and accounted for in the Uncertainty Budget. Should these Uncertainties be required contact LEDLab.

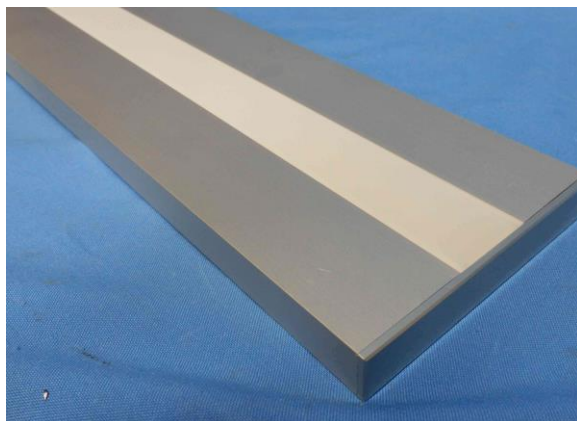
Test Procedures and Equipment

Calibration report:	200627CAL using N.M.I. report RN 181690 on standard lamp M14192
Technical Procedure:	P113 & P118
Angular Resolution:	Test Configuration and issued .ies file C Plane Interval 15 Deg Gamma Angle Interval 1.0 Deg Abbreviated Test Report File (I-Table) C Plane Interval 15 Deg Gamma Angle Interval 5.0 Deg
Software:	Lisun LSG-1800B
Obstructions:	None
Lab. Book Page:	PH4/1762
Primary Orientation Correction:	1.0
Colour correction:	1.028
Goniophotometer:	Lisun Electronics Model LSG-1800B, Serial No. GSGHF070010.
Photocell:	Lisun Electronics Detector Serial No. 330220-1
Lux meter:	Lisun Electronics Model PM 400, Serial No. GSRXK090021
Lux meter integration time (PLC):	5
Power meter:	Lisun Electronics Model RT-200, Serial No. GSXY0100021
Power meter integration time (s):	0.5
Luminaire thermometer:	AMA 1362983 0.1°C Serial No 526,10942
Temperature Data Logger:	Lisun TMP-8 Multiplex Serial No GSJWM010028
Auxiliary Photocell:	Delta Ohm HD 2102.1 & LP471PHOT

TEST REPORT and IES file archive

The data files for this report are contained in the *archive file: 201144PH.zip*

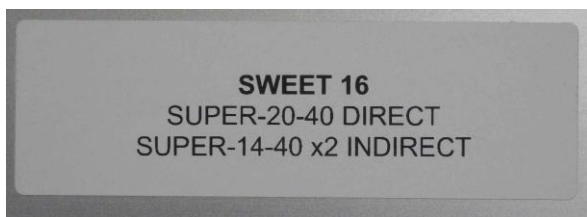
IES file: 201144PH.IES Document File: 201144PH.pdf



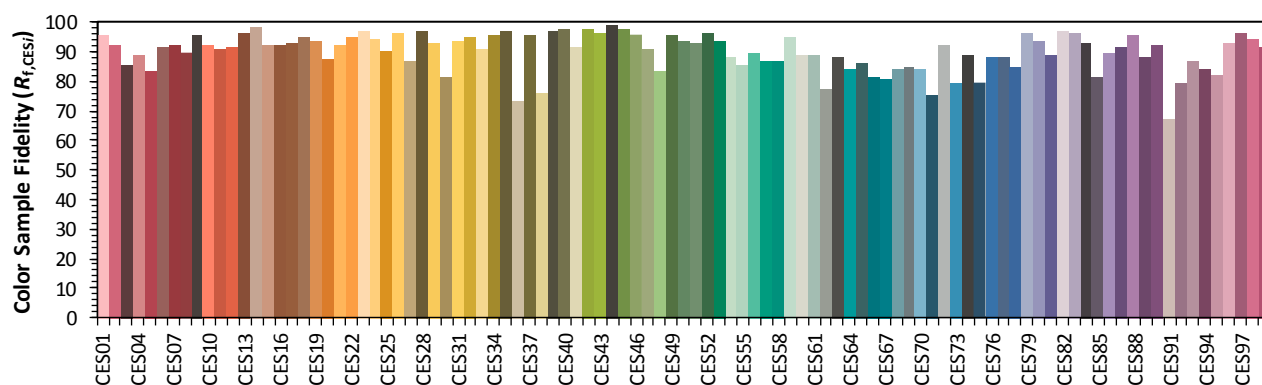
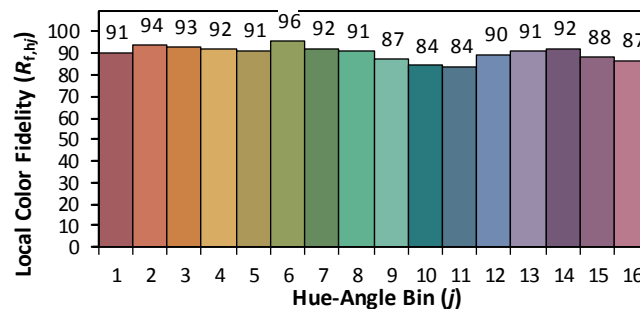
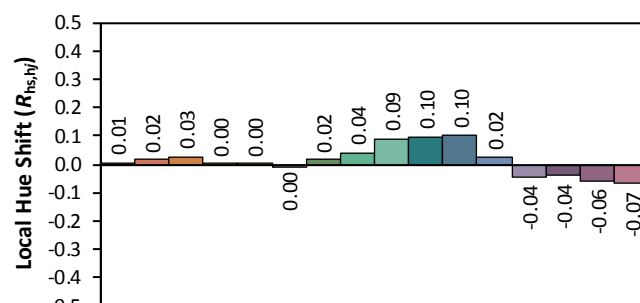
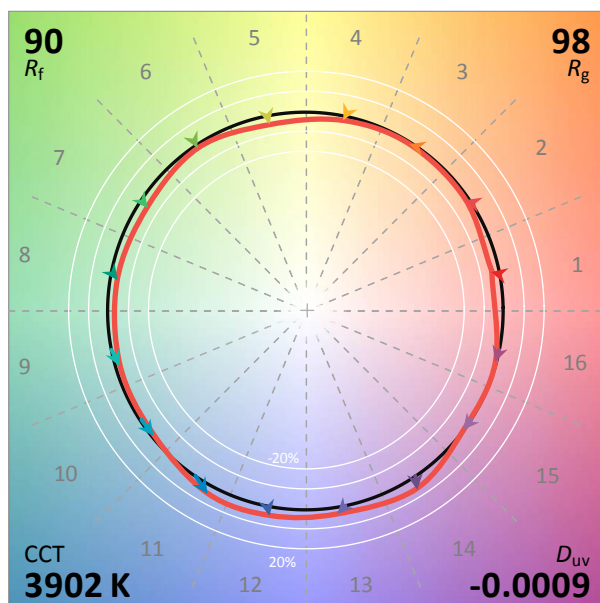
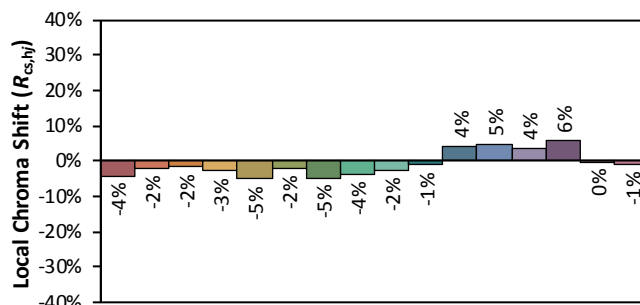
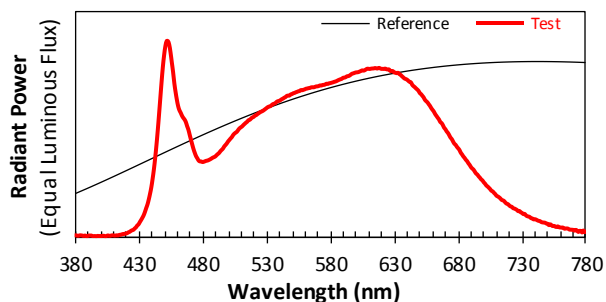
Direct



Indirect



ANSI/IES TM-30-18 COLOR RENDITION REPORT



Notes:

x 0.3842
y 0.3772
u' 0.2274
v' 0.5023

CIE 13.3-1995
(CRI)

R_a 94
R_g 72



PHOTOMETRIC TEST REPORT No. 201144PH

Date: 23rd November 2020

LUMINOUS INTENSITY DISTRIBUTION (I-Table) - cd																										
Vertical	Horizontal Angle (H Plane) - Degrees																									
Angle (V)																										
Degrees	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	360	
0	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	
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