



Light Emission Distribution Laboratory

Division of Photometry & Electrical Testing Pty. Ltd ABN 11 166 255 134
Unit 4, 140 George St. Hornsby NSW 2077 Australia
Ph: +61 2 9476 3097 E: sales@ledlab.com.au



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

PHOTOMETRIC TEST REPORT No. 201139PH

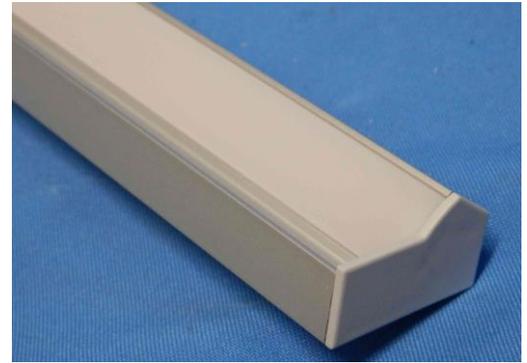
Date: 17th November 2020

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

Luminaire: Where's Ben 14

Catalogue No. WB14-SUPER-14-40

Description: Offspring Profiles LED extrusion WB14 Opal diffuser

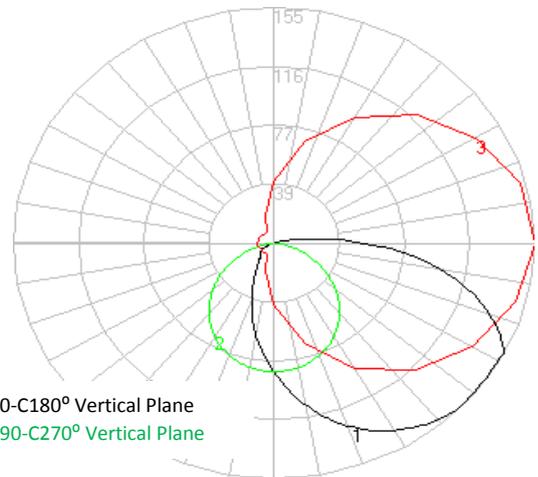


Optical System: Offspring profiles 24VDC LED board type Super Series-14W-4000K (500mm LED strip 14W/m).

Control Gear: Lisun DC Series DC3010 24VDC Power 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 0.305A and 7.226W. That is, Lamp Circuit Power (LCP), which includes power supply losses, is 7.23W. The Total Luminous Flux was measured as 355 Lumens. The Correlated Colour Temperature was measured as 4016K average.

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

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 the face of the diffuser was co-incident with centre of the goniophotometer.
- The short 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

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

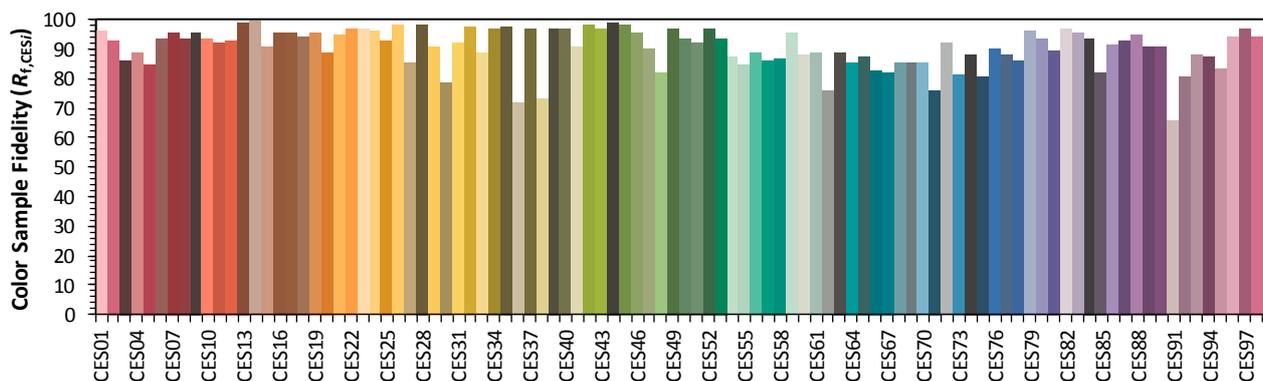
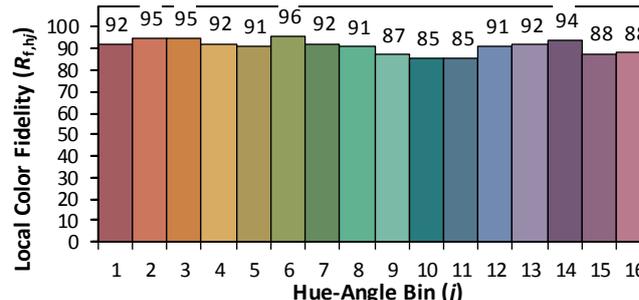
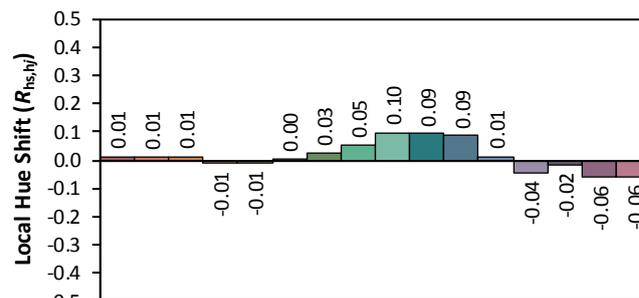
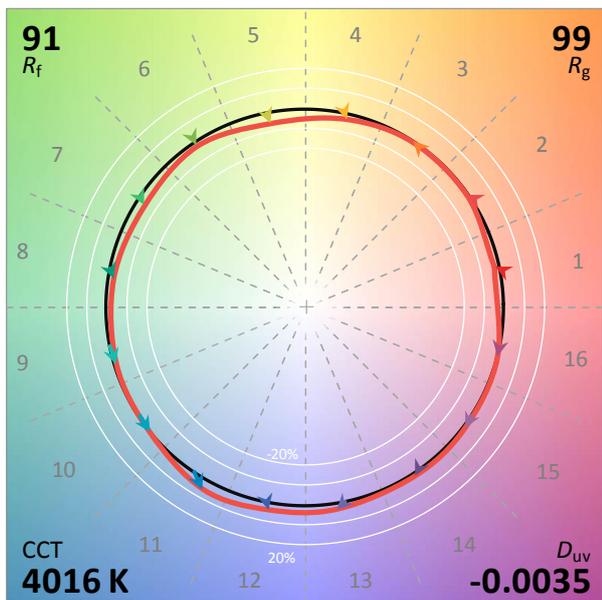
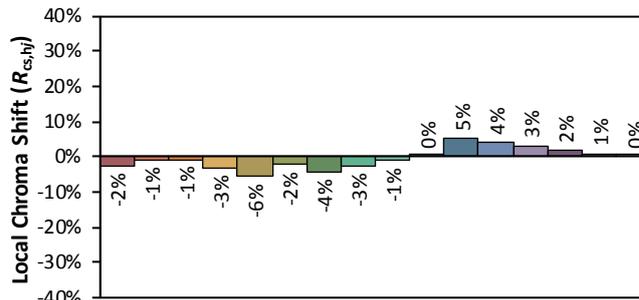
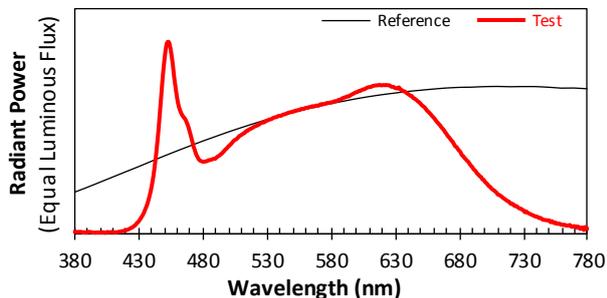
TEST REPORT and IES file archive

The data files for this report are contained in the *archive file: 201139PH.zip*

IES file: 201139PH.IES *Document File: 201139PH.pdf*



ANSI/IES TM-30-18 COLOR RENDITION REPORT



Notes:

[Blank area for notes]

x **0.3774**
 y **0.3675**
 u' **0.2268**
 v' **0.4970**

CIE 13.3-1995	
(CRI)	
R _a	96
R _g	86

The photometric data includes all the requirements of the report section of IESNA LM-79-19 or CIE S 025/E.

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PHOTOMETRIC TEST REPORT No. 201139PH

Date: 17th November 2020

LUMINOUS INTENSITY DISTRIBUTION (I-Table) - cd																									
Vertical Angle (V) Degrees	Horizontal Angle (H Plane) - 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	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85
5	97	97	95	93	91	88	84	82	78	76	75	73	73	74	74	77	78	81	84	87	90	93	95	96	97
10	108	107	105	101	95	90	83	77	72	68	65	62	62	63	64	68	72	77	83	90	95	101	104	107	108
15	119	118	113	107	100	91	81	73	65	59	54	51	50	51	54	59	65	72	81	90	99	107	113	116	119
20	128	126	121	113	102	91	79	67	57	50	45	41	39	40	44	49	57	67	78	91	102	112	120	124	128
25	136	134	127	118	105	90	75	61	49	41	34	30	29	30	34	40	49	61	75	90	104	117	126	132	136
30	142	140	132	121	106	89	71	55	41	32	26	22	21	22	25	31	41	55	71	88	105	120	130	138	142
35	147	145	136	122	106	86	66	48	33	23	19	17	17	17	19	23	33	48	65	86	105	121	134	142	147
40	151	148	138	123	104	83	60	41	26	17	15	14	14	14	14	17	25	40	60	83	104	122	137	146	151
45	154	150	139	124	102	79	54	33	18	13	12	11	12	12	12	13	18	33	54	79	101	122	137	147	154
50	154	151	139	122	100	74	48	26	13	10	10	10	11	10	10	10	13	26	47	74	98	120	137	148	154
55	155	151	138	120	96	69	41	19	9	8	9	10	10	10	9	8	9	19	41	69	95	118	136	148	155
60	154	150	136	116	91	63	34	12	6	7	8	8	8	8	8	7	6	12	33	62	90	114	134	147	154
65	149	145	133	112	86	56	26	7	5	6	6	5	4	4	5	6	5	7	26	56	84	110	130	141	149
70	136	133	123	107	80	49	19	3	3	3	2	0	0	0	0	3	4	3	19	49	79	105	120	129	136
75	119	117	108	94	73	41	12	1	1	0	0	0	0	0	0	0	1	1	12	41	72	91	104	112	119
80	99	97	89	77	60	33	5	0	0	0	0	0	0	0	0	0	0	0	5	33	58	74	85	92	99
85	77	75	68	57	42	23	0	0	0	0	0	0	0	0	0	0	0	0	0	22	40	54	65	71	77
90	53	51	45	36	22	7	0	0	0	0	0	0	0	0	0	0	0	0	0	6	20	32	42	47	53
95	31	29	22	13	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	11	20	26	31
100	11	9	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	11
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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