



## PHOTOMETRIC TEST REPORT No. 200138PH

Date: 5<sup>th</sup> February 2020

Client: OFFSPRING PROFILES

Address: 40 Austin Street, Onekawa, Napier, New Zealand

Contact: Robin Campbell

Luminaires: Angle Andy 25 & Where's Ben 25

Catalogue No. AA25-SUPER-14-40 (sample tested) &  
WB25-SUPER-14-40

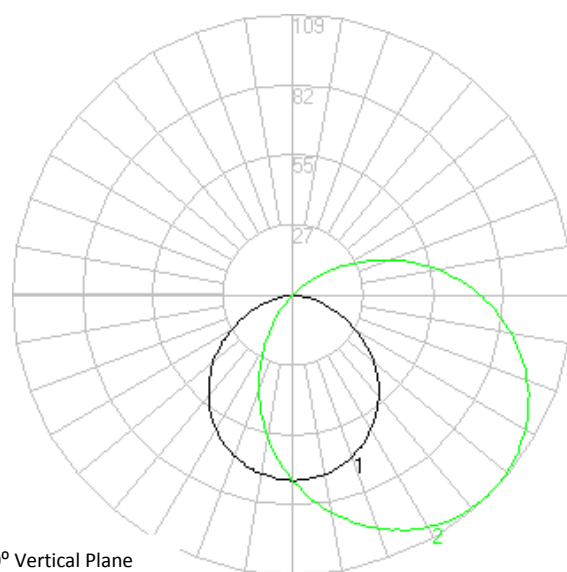
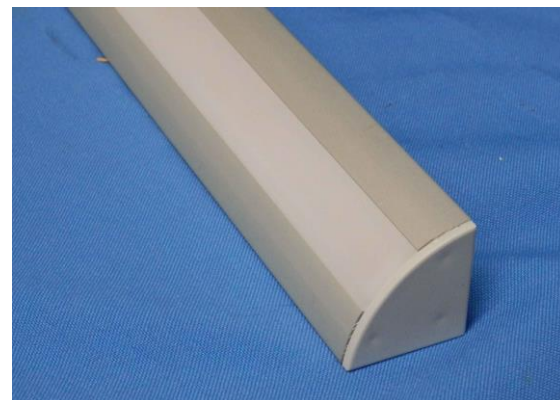
Description: 520mm quad aluminium extrusions (25mm x 25mm) incorporating a convex curved opal diffuser. This test report covers both model numbers as their optical openings are identical.

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

Control Gear: LISUN DC Series DC3010 24VDC 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.

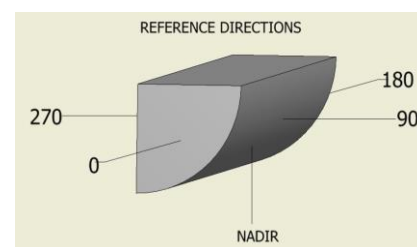


### Results:

When tested at an ambient of 25°C at a supply voltage of 24.0V dc, the luminaire consumed 0.317A and 7.61W. That is, Lamp Circuit Power (LCP), which includes power supply losses, is 7.61W.

The Total Luminous Flux was measured as 307 Lumens. The Correlated Colour Temperature was measured as 4139K average.

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



Tested by: Bruce Real/J King on 5<sup>th</sup> of February 2020

Authorised Signatory:

D.Ford



## ***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 centre of the diffuser 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 9.82m, 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:** 181104CAL 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:** PH3/1695

**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



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### TEST REPORT and IES file archive

The data files for this report are contained in the archive file 200138PH.zip

IES file 200138PH.ies

Document File: 200138PH.pdf

#### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.3739$   $y=0.3706$   $u(u')=0.2233$   $v=0.3319$   $v'=0.4979$

CCT:  $T_c=4139K$  ( $duv=-0.00097$ )

Color Ratio:  $R=0.199$   $G=0.750$   $B=0.051$

Peak Wavelength: 455nm

Half Bandwidth: 28.7nm

Dominant Wavelength: 579.1nm

Color Purity: 0.234

CRI:  $R_i$ :  $R_a=95.1$

$R_1=97$

$R_2=99$

$R_3=98$

$R_4=92$

$R_5=95$

$R_6=96$

$R_7=93$

$R_8=92$

$R_9=88$

$R_{10}=99$

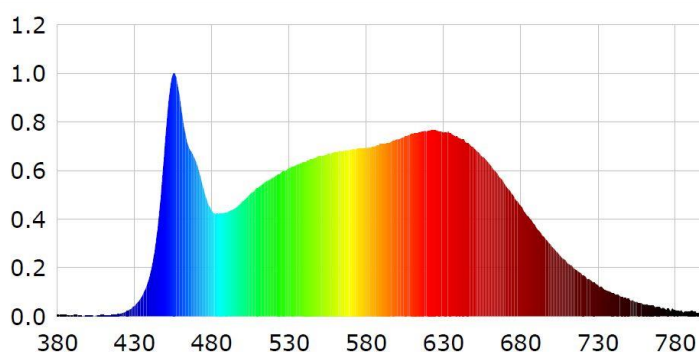
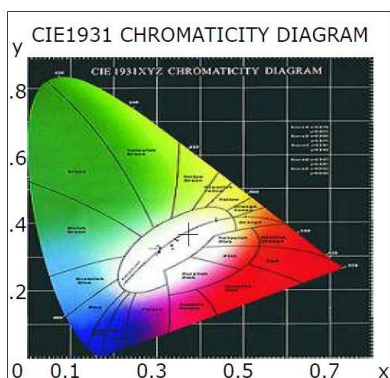
$R_{11}=94$

$R_{12}=71$

$R_{13}=99$

$R_{14}=100$

$R_{15}=95$





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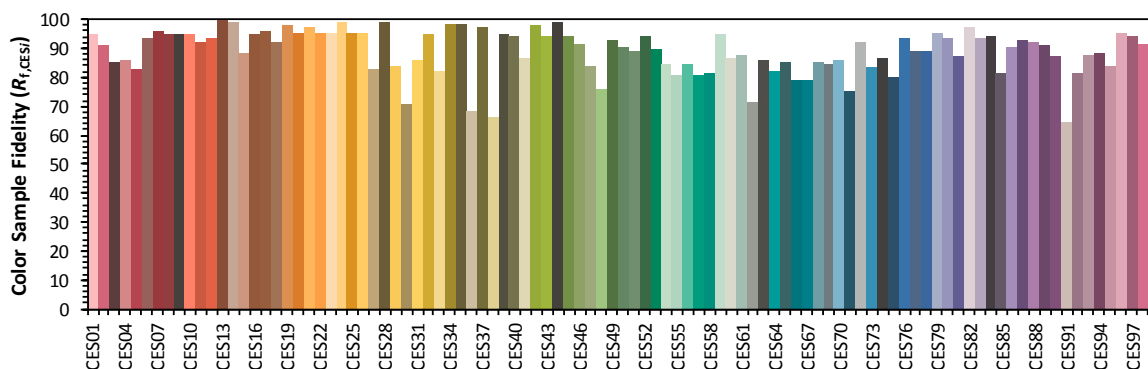
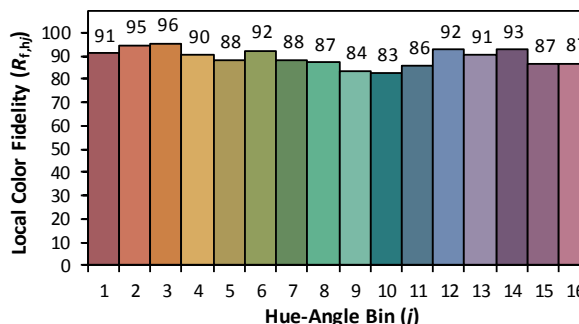
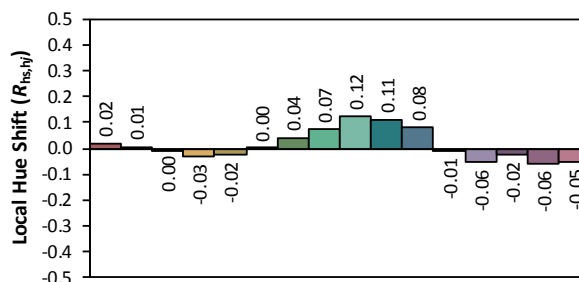
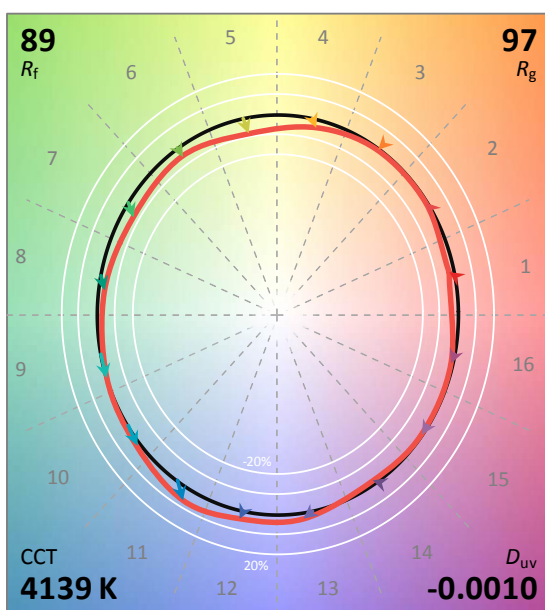
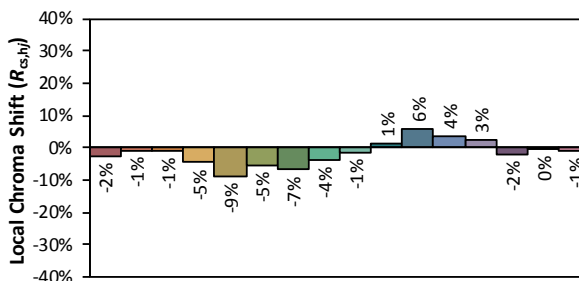
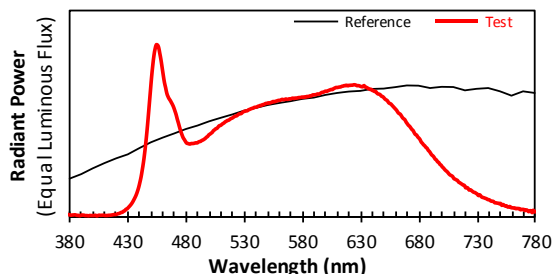
## ANSI/IES TM-30-18 Color Rendition Report

Source: 14W-4000K (500mm LED strip)

Manufacturer: OFFSPRING PROFILES

Date: 5/02/2020

Model: AA25 -SUPER-14-40 (JA1905270S)



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.3739

y 0.3706

u' 0.2233

v' 0.4979

CIE 13.3-1995  
(CRI)

R<sub>a</sub> 95

R<sub>9</sub> 88

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.



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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	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73		
5	72	75	76	78	79	80	80	80	79	78	76	74	72	70	69	67	66	65	65	65	66	67	69	71	72		
10	71	75	79	82	84	86	86	86	85	82	79	75	71	67	64	61	58	57	56	57	58	61	64	67	71		
15	70	75	81	85	89	92	92	92	89	86	81	75	69	64	58	54	51	48	48	49	50	54	59	64	70		
20	67	75	82	88	93	96	97	96	93	88	82	75	67	59	52	46	42	40	39	40	42	47	53	60	67		
25	64	74	83	90	96	101	102	101	96	90	83	74	64	55	46	39	34	30	30	31	34	39	46	55	64		
30	61	72	82	92	99	103	105	103	99	92	82	72	60	49	39	31	26	21	21	22	25	31	40	50	61		
35	57	69	82	92	100	106	108	106	101	92	81	69	56	43	32	23	17	14	13	14	17	24	33	44	57		
40	52	66	80	92	100	107	109	107	101	91	79	66	51	37	25	16	11	7	7	7	10	16	26	38	52		
45	47	62	77	90	100	107	109	107	101	90	77	62	46	31	18	9	5	2	2	2	4	9	19	32	47		
50	41	58	74	88	99	107	109	107	99	88	74	58	41	24	11	3	1	0	0	0	1	4	11	25	41		
55	35	53	70	85	97	105	107	105	97	85	70	53	34	18	6	0	0	0	0	0	0	0	6	18	35		
60	29	48	66	82	94	102	105	102	94	82	66	48	28	11	1	0	0	0	0	0	0	0	1	12	29		
65	23	42	61	77	90	99	101	99	90	77	61	42	22	5	0	0	0	0	0	0	0	0	0	6	23		
70	16	36	56	73	85	95	97	95	86	72	55	36	15	0	0	0	0	0	0	0	0	0	0	1	16		
75	10	30	50	67	81	89	92	90	80	67	49	29	9	0	0	0	0	0	0	0	0	0	0	0	10		
80	4	23	43	61	75	84	87	84	75	61	43	22	3	0	0	0	0	0	0	0	0	0	0	0	4		
85	0	16	36	55	68	77	80	77	68	54	36	16	0	0	0	0	0	0	0	0	0	0	0	0	0		
90	0	10	30	47	61	70	73	70	61	47	29	10	0	0	0	0	0	0	0	0	0	0	0	0	0		
95	0	4	22	40	54	62	65	62	53	39	22	4	0	0	0	0	0	0	0	0	0	0	0	0	0		
100	0	0	16	32	46	54	57	54	46	32	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
105	0	0	9	24	38	46	49	46	37	24	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
110	0	0	4	17	29	37	40	37	29	17	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
115	0	0	0	10	21	28	31	28	21	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
120	0	0	0	5	14	20	22	19	13	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
125	0	0	0	0	7	12	14	12	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
130	0	0	0	0	2	5	7	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
135	0	0	0	0	0	0	2	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		