



PHOTOMETRIC TEST REPORT No. 200137PH

Client: OFFSPRING PROFILES

Date: 4th February 2020

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

Contact: Robin Campbell

Luminaires: Downhill Dan 14 & Trim Tim 13

Catalogue No. DD14 -SUPER-14-40 (sample tested) &
TT13-SUPER-14-40

Description: 520mm aluminium extrusions DD14-SUPER-14-40
(17mm x 14mm), TT13-SUPER-14-40 (17mm x 13mm)

incorporating a convex curved linear 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 14W/m)

Control Gear: LISUN DC Series DC3010 24VDC Supply.

Test Specification:

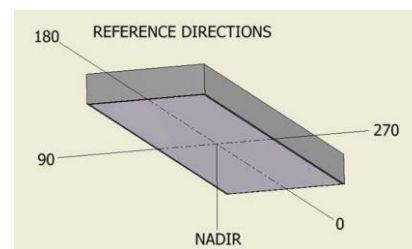
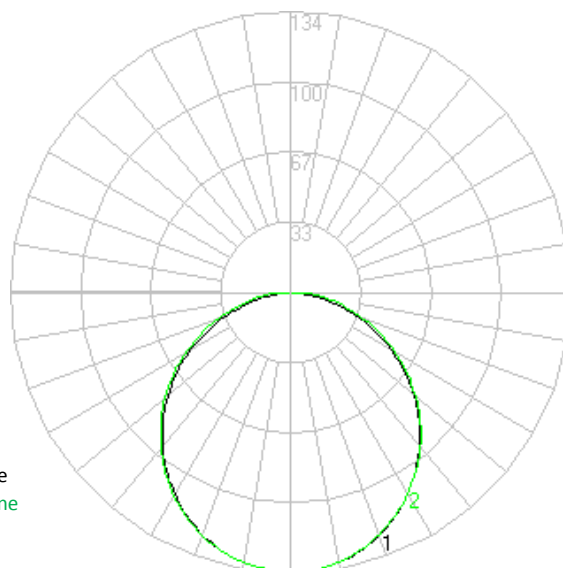
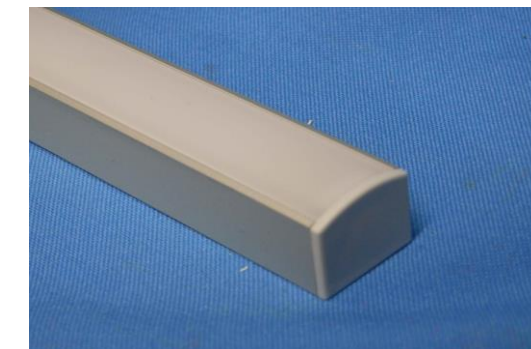
The luminaire was tested in accordance with the procedures given in IES LM79-19, "Optical and electrical measurements of Solid-State Lighting Products" using the **absolute** method.

Results:

When tested at an ambient of 25°C at a supply voltage of 24.0Vdc, the luminaire consumed 0.316A and 7.58W. That is, Lamp Circuit Power (LCP), which includes power supply losses, is 7.58W.

The Total Luminous Flux was measured as 374 Lumens. The Correlated Colour Temperature was measured as 4127K average.

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



Tested by: Bruce Real/J King on 4th of February 2020

Authorised Signatory: _____

D.Ford

The tests and measurements performed at LEDLab and covered by this document are traceable to Australian National standards of measurement. This report only applies to the items tested as received from the client and shall only be reproduced in full unless approved in writing by Light Emission Distribution Laboratory. The data specified in this report apply to the luminaire with the components nominated and will not necessarily be applicable to the use of other light source sizes or ratings, nor to any other luminaire of similar design. The data are based on operation of the luminaire under laboratory conditions. Multiplying factors to correct the data for actual working conditions should be used when applicable. Ph. 0403242121



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 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

TEST REPORT and IES file archive

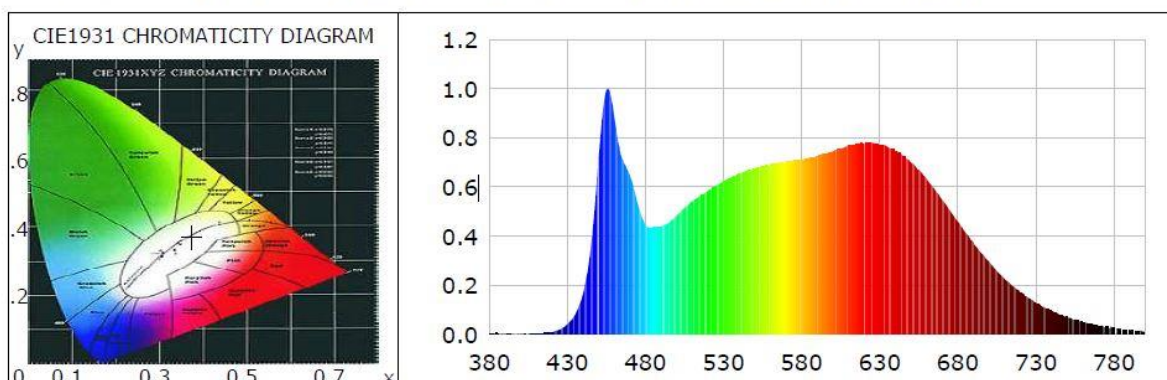
The data files for this report are contained in the archive file 200137PH.zip

IES file 200137PH.ies Document File: 200137PH.pdf

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3749$ $y=0.3728$ $u(u')=0.2230$ $v=0.3327$ $v'=0.4990$
 CCT: $T_c=4127K$ ($duv=-0.00023$) Color Ratio: $R=0.198$ $G=0.751$ $B=0.050$
 Peak Wavelength: 456nm Half Bandwidth: 29.2nm
 Dominant Wavelength: 578.7nm Color Purity: 0.244
 CRI: R_i : $R_a=94.9$

$R_1=97$	$R_2=99$	$R_3=98$	$R_4=92$	$R_5=94$	$R_6=96$	$R_7=92$	$R_8=91$
$R_9=86$	$R_{10}=99$	$R_{11}=93$	$R_{12}=70$	$R_{13}=99$	$R_{14}=100$	$R_{15}=95$	





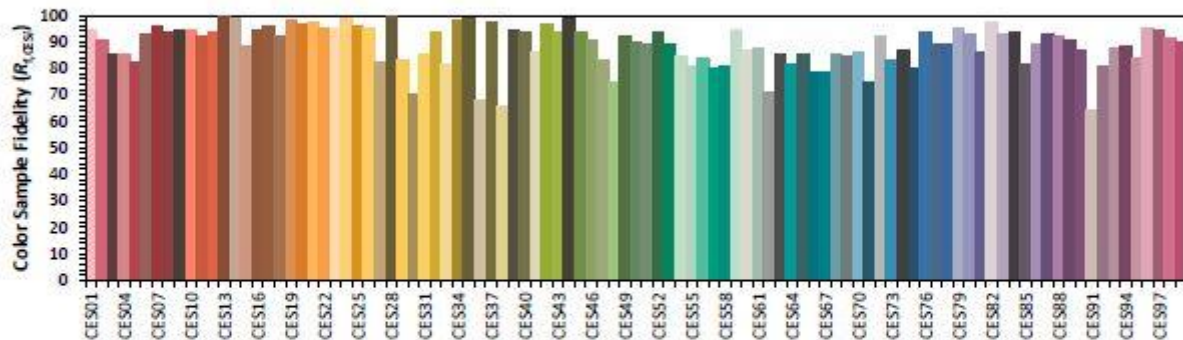
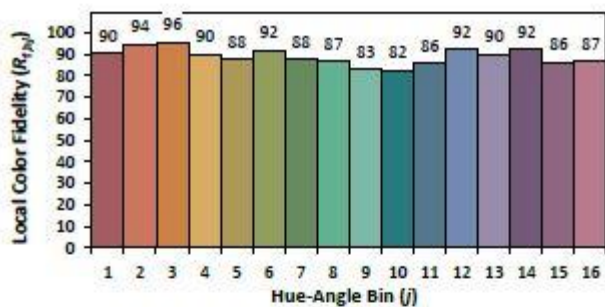
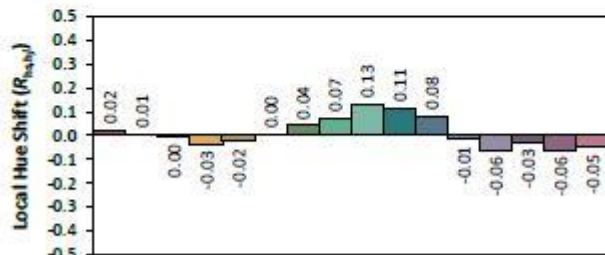
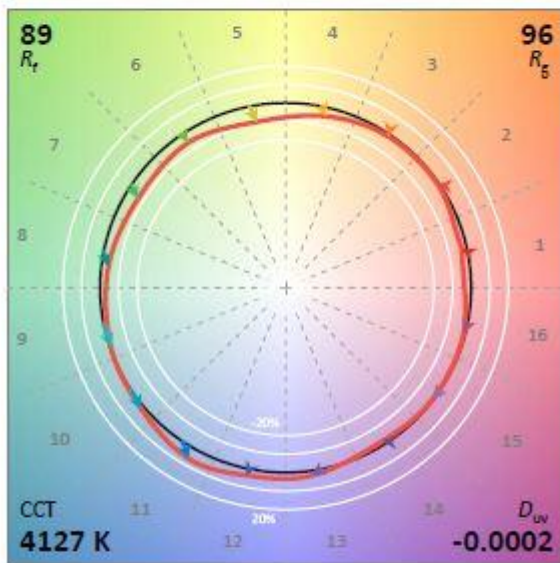
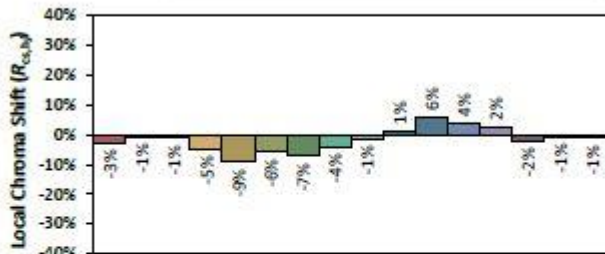
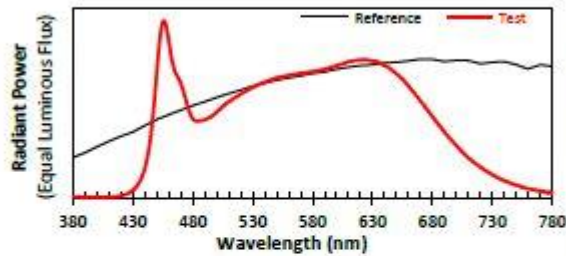
ANSI/IES TM-30-18 Color Rendition Report

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

Manufacturer: OFFSPRING PROFILES

Date: 4/02/2020

Model: DD14 -SUPER-14-40 (JA1905270S)



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

 x 0.3749 y 0.3727 u' 0.2230 v' 0.4990CIE 13.3-1995
(CRI) R_a 95 R_g 86

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	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	
5	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	
10	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	
15	128	128	128	127	128	127	127	127	128	128	128	128	128	128	128	128	128	128	128	128	128	128	127	128	128	128	
20	124	123	123	123	124	123	123	123	124	123	124	123	124	124	124	124	124	124	124	124	124	124	123	123	124	124	
25	118	117	118	118	118	118	118	118	118	118	118	118	118	118	118	118	119	119	118	119	118	118	117	118	118	118	
30	111	111	111	111	112	111	112	111	112	111	111	111	111	112	112	112	112	112	112	112	112	112	111	111	111	111	
35	104	103	104	103	104	104	104	104	104	104	104	104	104	104	104	105	105	105	105	105	105	104	104	104	103	104	
40	96	95	95	95	96	96	96	96	96	96	96	95	96	96	96	97	97	97	97	97	97	96	96	95	95	96	
45	86	86	86	86	87	87	87	87	88	87	87	87	86	87	87	88	88	88	88	88	88	87	87	86	86	86	
50	77	76	77	77	78	77	78	78	78	77	78	77	77	78	78	78	78	78	79	78	79	78	78	77	77	77	
55	67	66	67	67	68	68	68	68	68	67	67	66	67	67	67	68	68	69	68	69	68	68	66	66	66	67	
60	56	55	56	56	57	57	58	57	57	56	57	56	56	57	56	58	58	58	58	58	57	57	56	55	56	56	
65	44	44	45	45	47	46	47	47	47	46	46	45	45	45	46	47	47	48	47	48	47	46	45	44	44	44	
70	33	32	33	34	36	36	36	36	36	35	35	34	33	34	34	36	37	37	37	37	36	35	34	33	33	33	
75	21	21	23	23	25	25	26	26	25	24	24	22	22	23	23	25	26	27	27	27	25	24	23	21	21	21	
80	11	11	12	13	16	16	17	16	16	14	14	12	11	12	13	15	17	17	17	17	16	14	13	11	11	11	
85	2	2	4	6	8	9	9	9	8	6	5	3	2	3	5	7	9	9	10	9	8	6	4	2	2	2	
90	0	0	0	0	2	3	3	3	2	0	0	0	0	0	0	1	3	3	4	3	2	0	0	0	0	0	
95	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	0	
100	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	0	
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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	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	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	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	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	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	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	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	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	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	0	
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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	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	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	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	0	