

Light Emission Distribution Laboratory

Division of Photometry & Electrical Testing Pty. Ltd

ABN 11 166 255 134

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

PHOTOMETRIC TEST REPORT No. 201142PH

Date: 23rd November 2020

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

Luminaire: Downhill Dan 22

Catalogue No. DD22-SUPER-14-40

Description: Offspring Profiles LED extrusion DD22
incorporating an Opal diffuser

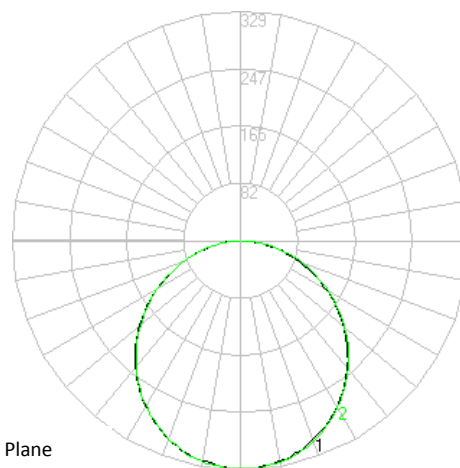
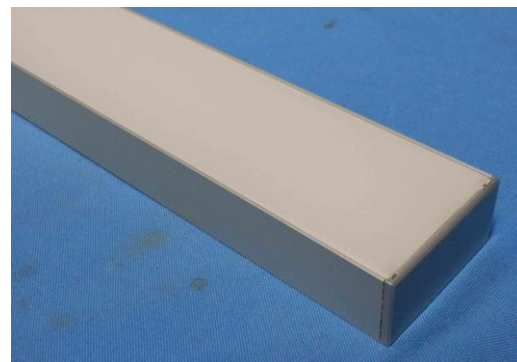
Optical System: 2x Offspring profiles 24VDC LED board type Super
Series-14W-4000K (500mm LED strip 14W/m).

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.

C0-C180° Vertical Plane
C90-C270° Vertical Plane

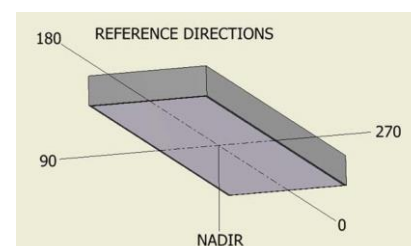


Results:

When tested at an ambient of 25°C at a supply voltage of 24VDC, the luminaire consumed 0.617A and 14.8W. That is, Lamp Circuit Power (LCP), which includes power supply losses, is 14.8W.

The Total Luminous Flux was measured as 932 Lumens.

The Correlated Colour Temperature was measured as 4056K average.



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

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 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 9.85m, 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

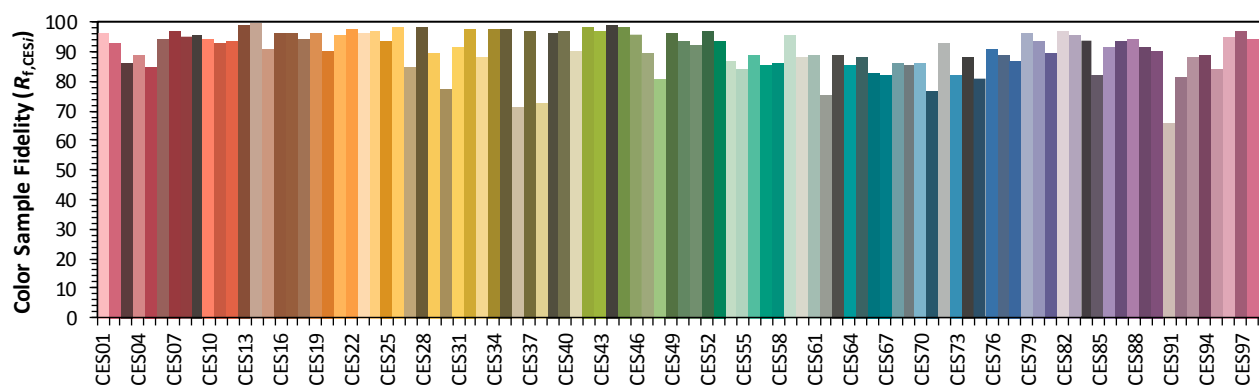
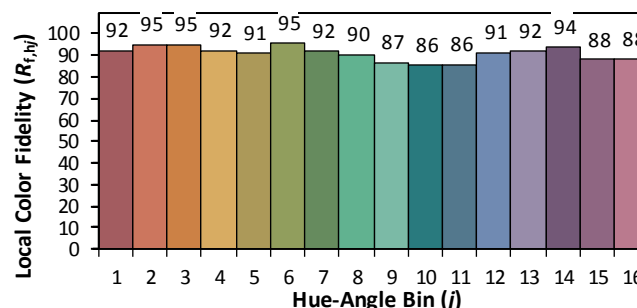
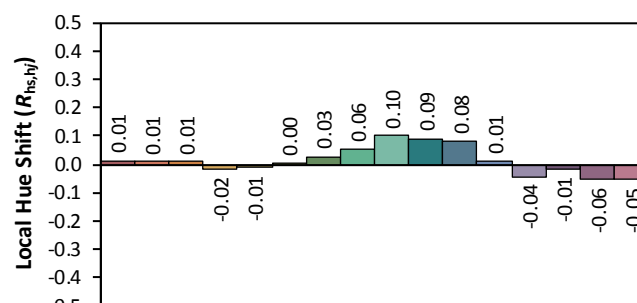
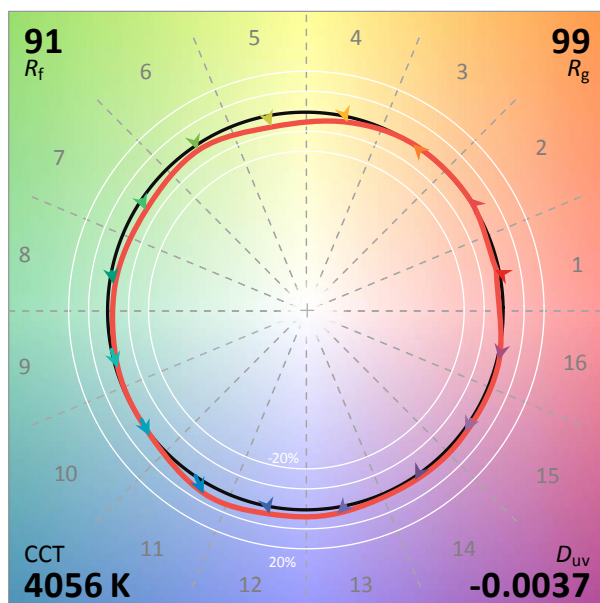
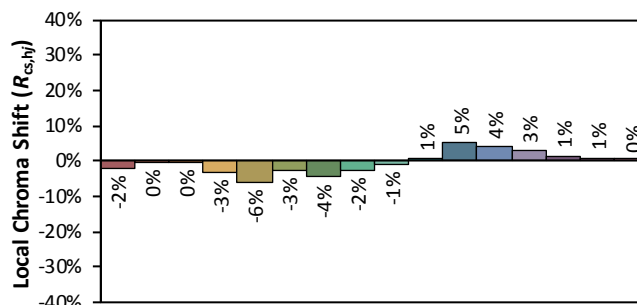
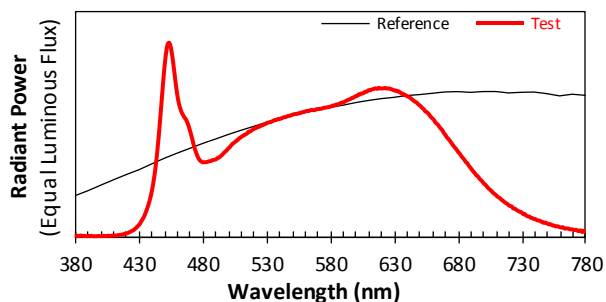
TEST REPORT and IES file archive

The data files for this report are contained in the *archive file: 201142PH.zip*

IES file: 201142PH.IES Document File: 201142PH.pdf



ANSI/IES TM-30-18 COLOR RENDITION REPORT



Notes:

x 0.3756
y 0.3660
u' 0.2262
v' 0.4960

CIE 13.3-1995
(CRI)

R_a 96
R_g 90



PHOTOMETRIC TEST REPORT No. 201142PH

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	328	328	328	328	328	328	328	328	328	328	328	328	328	328	328	328	328	328	328	328	328	328	328	328	328
5	327	327	326	327	327	327	328	326	327	327	326	326	326	326	325	327	326	326	326	327	325	325	325	326	327
10	321	323	322	323	324	325	325	325	324	323	324	323	321	323	322	324	322	324	322	322	321	322	322	323	321
15	315	316	315	316	317	318	318	316	318	316	317	316	314	316	315	317	315	316	314	315	314	314	314	315	315
20	305	305	305	305	306	305	307	305	306	305	306	305	304	305	303	304	303	304	304	304	303	304	303	305	305
25	292	291	292	292	293	292	293	292	293	292	294	292	290	292	289	291	290	291	289	290	289	291	289	291	292
30	276	276	276	276	278	277	278	277	278	277	278	277	274	276	274	275	274	275	274	275	273	275	274	276	276
35	259	258	259	258	260	259	261	258	260	259	261	258	256	258	255	257	255	257	256	256	255	257	255	257	259
40	239	238	239	238	240	239	241	239	240	239	241	239	237	238	235	237	235	237	235	236	234	236	235	238	239
45	217	217	217	217	219	217	219	217	219	217	219	217	214	217	213	216	213	215	213	214	212	215	213	216	217
50	194	193	194	193	195	193	196	194	196	194	196	193	191	193	190	192	190	192	189	191	189	191	189	192	194
55	169	168	170	169	171	169	171	169	171	168	171	169	166	168	164	168	165	167	163	166	163	166	163	167	169
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75	64	63	66	65	68	66	67	66	67	65	66	63	61	64	61	63	62	64	61	63	61	62	60	62	64
80	39	39	41	40	42	41	43	41	42	41	41	39	37	39	36	38	38	39	37	38	36	38	35	37	39
85	16	16	17	17	19	17	19	17	19	17	18	16	15	16	14	15	15	15	14	15	13	14	13	14	16
90	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
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
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
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