



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 -
Testing.
Accreditation No.
19541

PHOTOMETRIC TEST REPORT No. 200144PH

Client: OFFSPRING PROFILES

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

Contact: Robin Campbell

Luminaire: Tiny Tim 11

Catalogue No. TNT11 -SPEC-14-40-SLIM

Description: 532mm aluminium extrusion (23mm x 12mm)
incorporating a flat linear opal diffuser.

Optical System: Offspring Profiles 24VDC LED board type Spec
Series Slim 14W (500mm LED strip).

Control Gear: LISUN DC Series DC3010 24VDC Supply.

Test Specification:

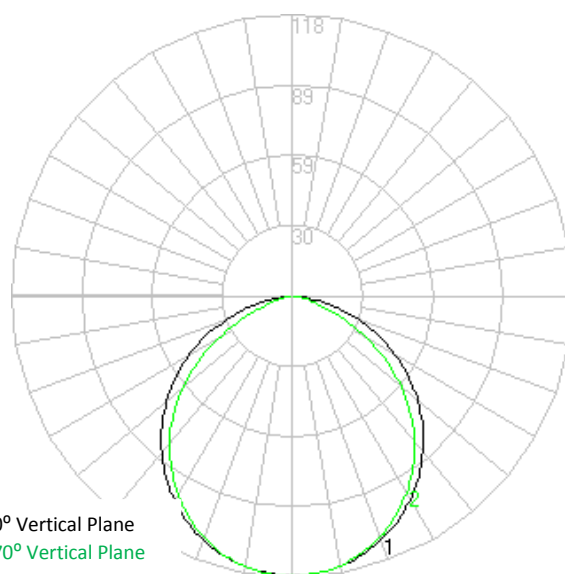
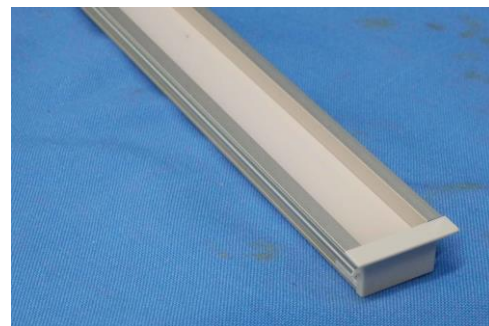
The luminaire was tested in accordance with the procedures given
in IES LM79-19, "Optical and electrical measurements of Solid-
State Lighting Products" using the **absolute** method.

Results:

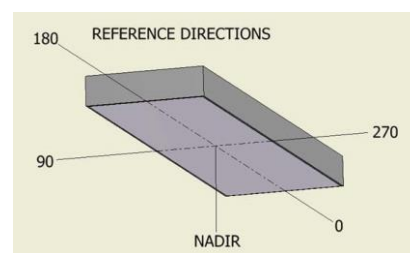
When tested at an ambient of 25°C at a supply voltage of 24.0VDC, the
luminaire consumed 0.283A and 6.8W. That is, Lamp Circuit Power (LCP),
which includes power supply losses, is 6.8W.

The Total Luminous Flux was measured as 297 Lumens. The Correlated
Colour Temperature was measured as 4125K average.

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



0-180° Vertical Plane
90-270° Vertical Plane



Tested by: Bruce Real/J King on 5th 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: PH3/1696

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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Date: 5th February 2020

TEST REPORT and IES file archive

The data files for this report are contained in the archive file 200144PH.zip

IES file 200144PH.ies

Document File: 200144PH.pdf

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3735$ $y=0.3670$ $u(u')=0.2244$ $v=0.3308$ $v'=0.4962$

CCT: $T_c=4125K$ ($duv=-0.00256$)

Color Ratio: $R=0.201$ $G=0.748$ $B=0.051$

Peak Wavelength: 455nm

Half Bandwidth: 28.7nm

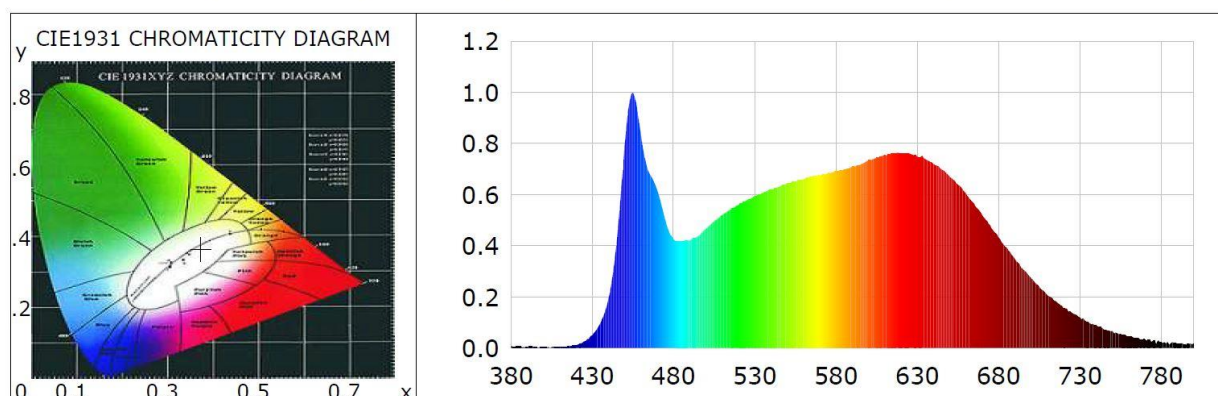
Dominant Wavelength: 580.3nm

Color Purity: 0.222

CRI: R_i : $R_a=95.1$

$R_1=97$ $R_2=98$ $R_3=98$ $R_4=93$ $R_5=95$ $R_6=95$ $R_7=92$ $R_8=91$

$R_9=87$ $R_{10}=99$ $R_{11}=95$ $R_{12}=72$ $R_{13}=99$ $R_{14}=100$ $R_{15}=96$



ANSI/IES TM-30-18 Color Rendition Report

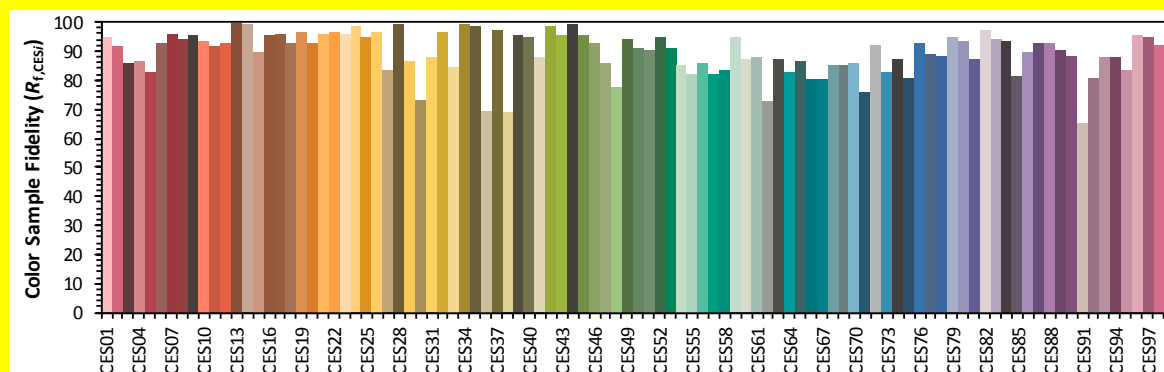
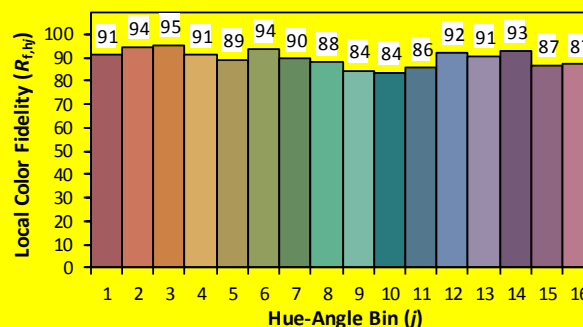
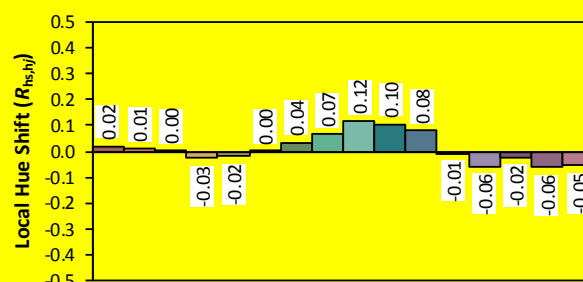
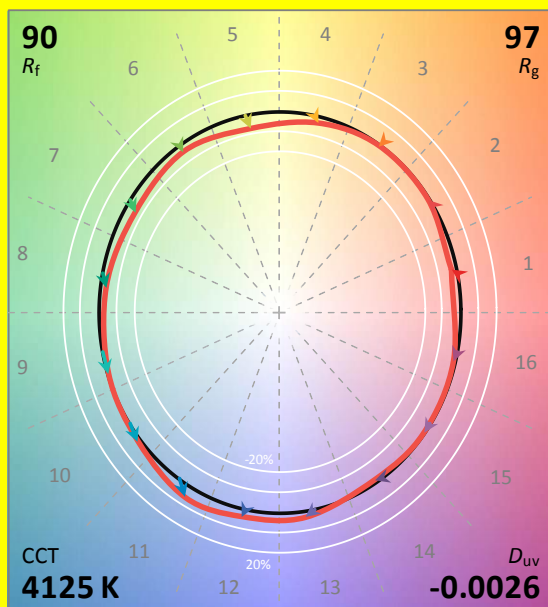
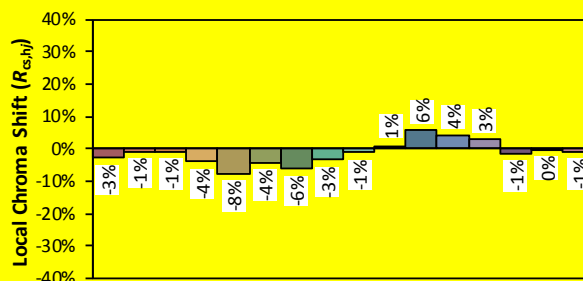
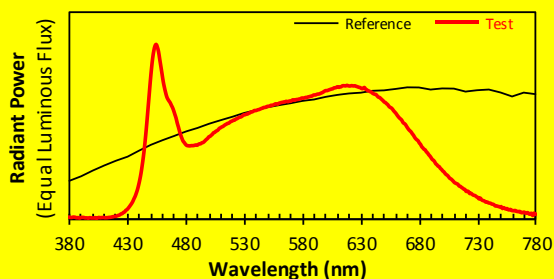
Source:

Manufacturer:

OFFSPRING PROFILES

Date: 5/02/2020

Model: TNT11-SPEC-14-40-SLIM (JA190719OS)



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

x 0.3735

y 0.3670

u' 0.2244

v' 0.4962

CIE 13.3-1995
(CRI)

R_a 95

R_g 87

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	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118		
5	117	118	118	117	117	117	118	117	118	117	118	118	118	118	118	118	118	118	118	118	118	118	118	118	117		
10	116	116	116	116	116	115	115	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116		
15	113	113	113	112	112	112	112	112	113	113	113	114	113	114	114	113	113	113	113	113	113	113	113	113	113		
20	109	109	109	109	109	108	108	108	109	109	110	110	110	110	110	110	109	109	109	109	109	109	109	110	109		
25	105	105	104	103	103	102	103	102	103	103	105	105	105	106	105	105	104	104	103	104	104	104	104	105	105		
30	99	99	98	97	97	96	96	96	97	98	99	100	100	100	99	99	98	97	97	97	97	98	98	100	99		
35	93	92	91	90	89	88	88	88	90	91	92	93	93	94	93	92	90	90	89	90	90	91	92	93	93		
40	85	85	84	82	81	80	80	80	81	83	85	86	86	86	85	84	82	81	81	81	81	83	85	86	85		
45	78	77	75	73	72	71	71	71	73	75	77	78	78	78	77	75	73	72	71	72	73	75	76	77	78		
50	69	68	66	63	62	60	60	60	63	65	67	69	70	70	68	66	63	62	60	61	62	65	66	68	69		
55	60	59	56	53	51	49	49	49	52	54	57	60	61	61	58	55	52	50	49	50	51	54	56	59	60		
60	50	49	46	42	39	36	37	37	40	43	47	50	51	51	47	44	40	38	36	37	39	43	46	49	50		
65	40	38	35	30	27	24	24	24	28	31	36	39	41	40	36	32	27	25	24	25	27	31	35	39	40		
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75	19	17	12	7	6	7	8	7	7	8	13	17	19	19	13	8	6	7	7	7	6	8	12	17	19		
80	9	7	2	2	3	3	4	3	3	2	2	7	9	8	3	2	2	3	4	3	2	2	1	6	9		
85	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
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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		
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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		
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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		