

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P295787

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-31-RDP-UNV-L92765-W2A1-U-3000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2157.0 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

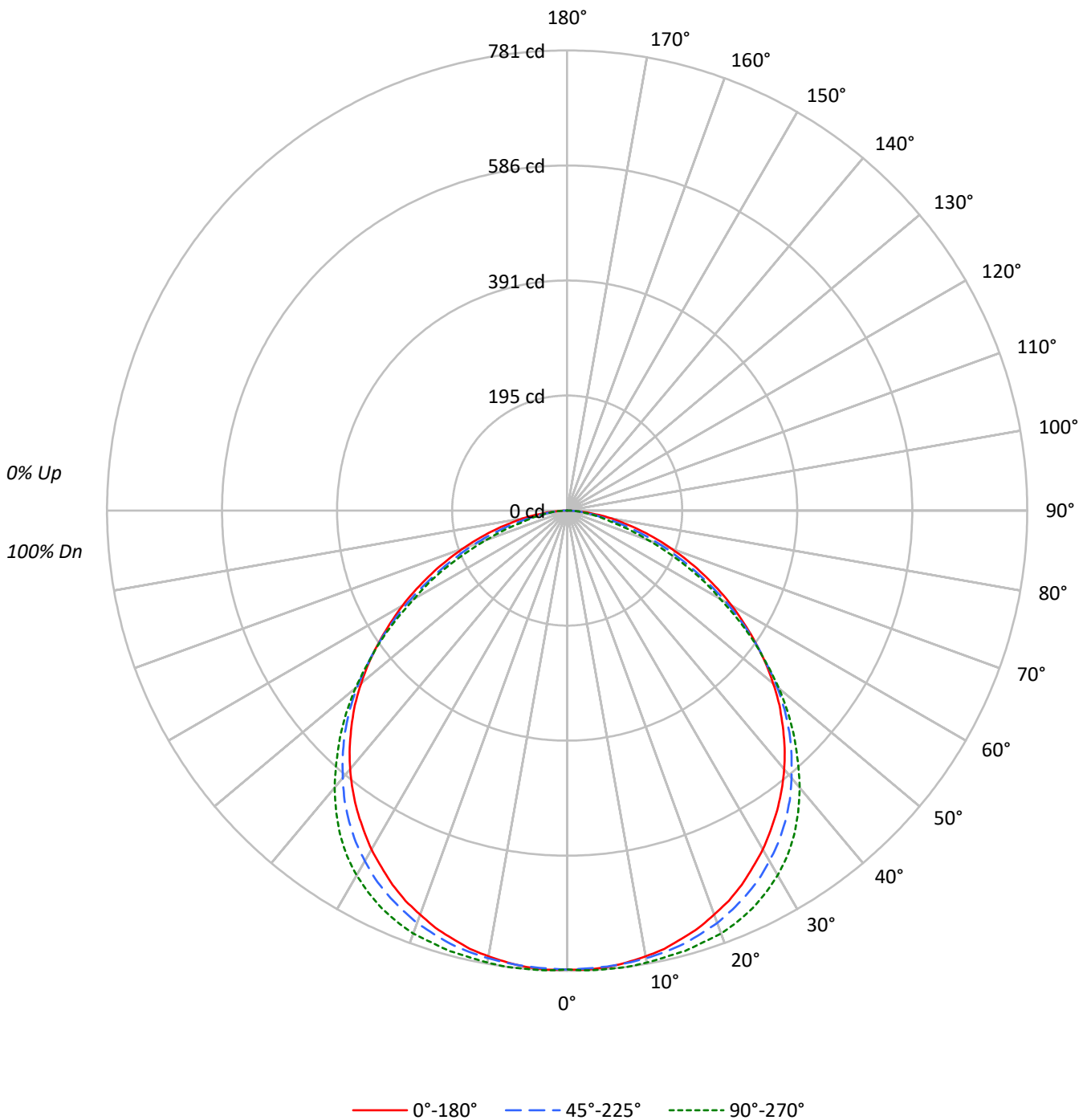
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2096	2096	2096
5°	2101	2098	2110
10°	2099	2108	2129
15°	2096	2122	2155
20°	2090	2133	2188
25°	2081	2138	2211
30°	2064	2134	2221
35°	2042	2119	2207
40°	2014	2081	2157
45°	1969	2031	2076
50°	1911	1947	1965
55°	1830	1825	1815
60°	1736	1678	1615
65°	1617	1501	1419
70°	1475	1316	1146
75°	1326	1092	858
80°	1179	797	747
85°	926	661	661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	3.4
10°-20°	215.5	10.0
20°-30°	332.6	15.4
30°-40°	403.4	18.7
40°-50°	409.5	19.0
50°-60°	346.5	16.1
60°-70°	234.4	10.9
70°-80°	113.3	5.3
80°-90°	27.6	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	622.2	28.8
0°-40°	1025.6	47.5
0°-60°	1781.6	82.6
0°-90°	2157.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2157.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	779	779	779	779	779	
5°	778	778	777	780	781	74
15°	752	756	762	770	774	212
25°	701	706	720	738	745	323
35°	622	628	645	665	672	389
45°	518	519	534	544	545	399
55°	390	387	389	389	387	349
65°	254	243	236	226	223	252
75°	128	118	105	91	82	136
85°	30	24	21	21	21	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	779.0	779.0	779.0	779.0	779.0
2.5°	780.0	780.0	777.9	780.0	781.1
5°	777.9	777.9	776.8	780.0	781.1
7.5°	773.6	774.7	774.7	779.0	781.1
10°	768.3	770.4	771.5	777.9	779.0
12.5°	761.8	764.0	767.2	774.7	775.8
15°	752.2	756.5	761.8	770.4	773.6
17.5°	742.5	746.8	753.3	765.0	768.3
20°	729.7	735.0	744.7	758.6	764.0
22.5°	716.8	721.1	732.9	750.0	755.4
25°	700.8	706.1	720.0	738.3	744.7
27.5°	682.5	690.0	705.0	724.3	730.8
30°	664.3	670.8	686.8	708.3	714.7
32.5°	642.9	649.3	667.5	687.9	695.4
35°	621.5	627.9	645.0	665.4	671.8
37.5°	597.9	602.2	620.4	637.5	644.0
40°	573.2	576.5	592.5	609.7	614.0
42.5°	546.5	548.6	563.6	578.6	579.7
45°	517.5	518.6	533.6	544.3	545.4
47.5°	488.6	487.5	500.4	507.9	509.0
50°	456.5	456.5	465.0	469.3	469.3
52.5°	424.3	422.2	426.5	429.7	426.5
55°	390.0	386.8	389.0	389.0	386.8
57.5°	355.7	349.3	350.4	348.2	342.9
60°	322.5	315.0	311.8	304.3	300.0
62.5°	288.2	279.7	273.2	264.7	263.6
65°	253.9	243.2	235.7	226.1	222.9
67.5°	220.7	211.1	200.4	189.7	183.2
70°	187.5	176.8	167.2	153.2	145.7
72.5°	157.5	147.9	136.1	120.0	114.6
75°	127.5	117.9	105.0	91.1	82.5
77.5°	98.6	91.1	77.1	65.4	64.3
80°	76.1	67.5	51.4	48.2	48.2
82.5°	49.3	43.9	36.4	34.3	34.3
85°	30.0	23.6	21.4	21.4	21.4
87.5°	11.8	10.7	10.7	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)