

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: P296129

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-67-RDP-UNV-L83050-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5553.0 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

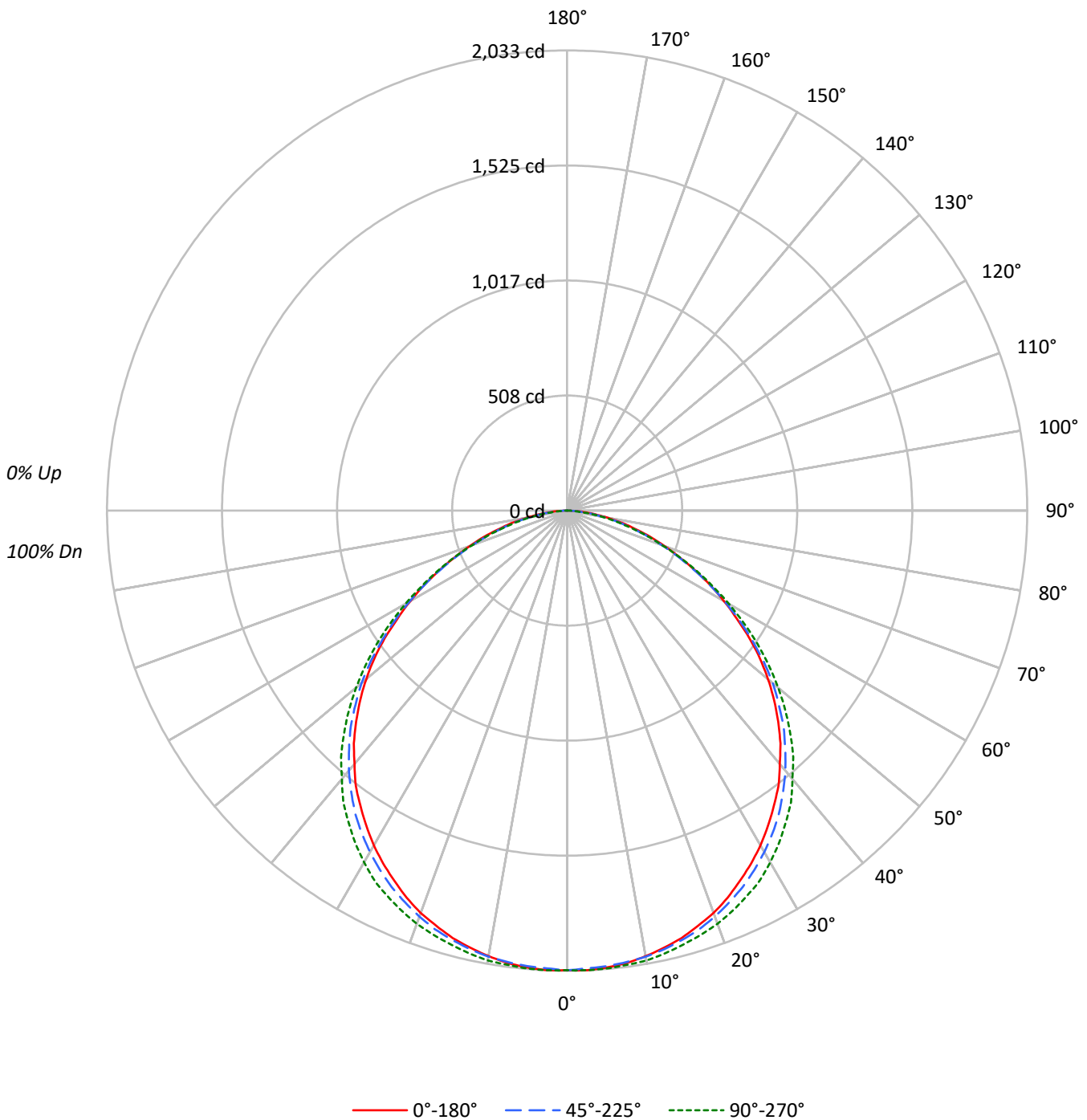
Input Watts (W): 48.639
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2732	2732	2732
5°	2737	2729	2743
10°	2731	2734	2757
15°	2723	2735	2764
20°	2709	2733	2781
25°	2680	2724	2790
30°	2654	2707	2788
35°	2616	2682	2765
40°	2568	2634	2719
45°	2509	2573	2654
50°	2425	2483	2549
55°	2308	2337	2407
60°	2154	2165	2222
65°	1978	1965	2012
70°	1798	1749	1757
75°	1599	1511	1500
80°	1388	1241	1208
85°	1138	878	682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.6	3.5
10°-20°	555.2	10.0
20°-30°	847.5	15.3
30°-40°	1021.7	18.4
40°-50°	1041.9	18.8
50°-60°	891.7	16.1
60°-70°	614.2	11.1
70°-80°	314.9	5.7
80°-90°	73.3	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°	1595.3	28.7
0°-40°	2617.0	47.1
0°-60°	4550.6	81.9
0°-90°	5553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5553.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2031	2031	2031	2031	2031	
5°	2026	2022	2020	2026	2031	193
15°	1955	1953	1963	1978	1984	551
25°	1805	1812	1835	1866	1879	833
35°	1593	1599	1633	1668	1683	996
45°	1319	1321	1352	1386	1395	1016
55°	984	978	996	1018	1026	878
65°	621	607	617	621	632	618
75°	308	295	291	291	289	332
85°	74	65	57	51	44	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2030.8	2030.8	2030.8	2030.8	2030.8
2.5°	2032.9	2028.6	2024.4	2028.6	2032.9
5°	2026.5	2022.3	2020.2	2026.5	2030.8
7.5°	2016.0	2011.8	2011.8	2020.2	2024.4
10°	1999.2	1997.0	2001.3	2009.7	2018.1
12.5°	1978.1	1978.1	1984.4	1994.9	2003.4
15°	1954.9	1952.8	1963.3	1978.1	1984.4
17.5°	1923.3	1925.4	1940.2	1957.0	1965.4
20°	1891.7	1893.8	1908.6	1931.7	1942.3
22.5°	1851.7	1855.9	1872.8	1902.3	1912.8
25°	1805.3	1811.7	1834.8	1866.4	1879.1
27.5°	1759.0	1765.3	1790.6	1826.4	1843.3
30°	1708.4	1716.9	1742.2	1780.1	1794.8
32.5°	1651.6	1657.9	1689.5	1727.4	1742.2
35°	1592.6	1598.9	1632.6	1668.4	1683.2
37.5°	1533.6	1533.6	1567.3	1609.4	1624.2
40°	1462.0	1464.1	1499.9	1539.9	1548.3
42.5°	1394.6	1394.6	1426.2	1464.1	1478.8
45°	1318.7	1320.8	1352.4	1386.1	1394.6
47.5°	1240.8	1240.8	1268.2	1299.8	1308.2
50°	1158.6	1154.4	1186.0	1211.3	1217.6
52.5°	1074.4	1068.0	1093.3	1114.4	1122.8
55°	983.8	977.5	996.4	1017.5	1025.9
57.5°	889.0	880.6	901.6	920.6	924.8
60°	800.5	787.9	804.7	815.3	825.8
62.5°	712.0	697.3	709.9	716.2	724.7
65°	621.4	606.7	617.2	621.4	632.0
67.5°	535.1	524.5	526.6	533.0	537.2
70°	457.1	444.5	444.5	444.5	446.6
72.5°	385.5	366.5	364.4	366.5	366.5
75°	307.6	294.9	290.7	290.7	288.6
77.5°	246.5	229.6	227.5	223.3	219.1
80°	179.1	164.3	160.1	158.0	155.9
82.5°	124.3	111.6	107.4	103.2	96.9
85°	73.7	65.3	56.9	50.6	44.2
87.5°	27.4	25.3	21.1	19.0	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)