

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: P296066

Luminaire Tested: **24RLN-LD5-67-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-67-UNV-L92765-W2A1-U-2700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5248.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

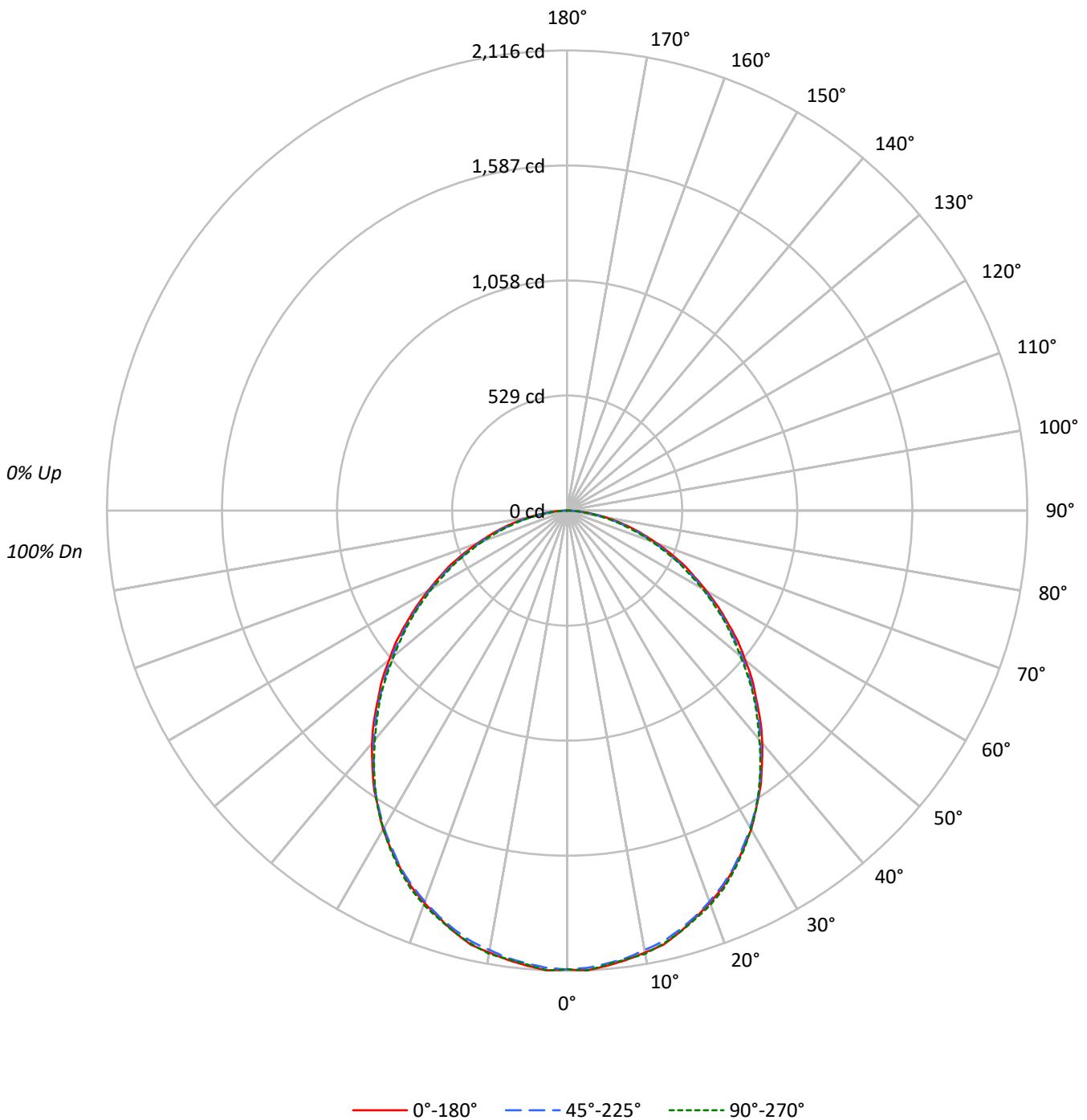
Input Watts (W): 48.546
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	102	99	95	98	95	92	94	92	90	91	89	87	85																												
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72																												
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61																												
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52																												
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46																												
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40																												
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36																												
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32																												
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29																												
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2838	2838	2838
5°	2838	2824	2831
10°	2820	2804	2827
15°	2795	2780	2795
20°	2749	2739	2761
25°	2695	2689	2704
30°	2630	2617	2625
35°	2547	2536	2531
40°	2453	2429	2415
45°	2342	2320	2310
50°	2236	2201	2176
55°	2117	2085	2065
60°	1991	1954	1932
65°	1881	1811	1795
70°	1725	1659	1625
75°	1584	1487	1426
80°	1391	1299	1220
85°	1124	1045	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.0	3.8
10°-20°	564.3	10.8
20°-30°	834.7	15.9
30°-40°	963.3	18.4
40°-50°	940.9	17.9
50°-60°	794.5	15.1
60°-70°	565.9	10.8
70°-80°	306.4	5.8
80°-90°	79.1	1.5
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°	1598.0	30.4
0°-40°	2561.3	48.8
0°-60°	4296.6	81.9
0°-90°	5248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5248.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2110	2110	2110	2110	2110	
5°	2101	2101	2091	2096	2096	199
15°	2006	1998	1996	2005	2006	565
25°	1815	1805	1812	1818	1822	836
35°	1551	1539	1544	1539	1541	968
45°	1231	1221	1219	1214	1214	952
55°	902	890	889	880	880	809
65°	591	579	569	562	564	583
75°	305	295	286	279	274	323
85°	73	71	68	59	58	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2109.5	2109.5	2109.5	2109.5	2109.5
2.5°	2116.3	2107.9	2104.5	2106.2	2116.3
5°	2101.1	2101.1	2090.9	2096.0	2096.0
7.5°	2084.2	2085.8	2075.7	2084.2	2080.8
10°	2063.8	2058.8	2052.0	2065.5	2068.9
12.5°	2045.2	2033.4	2030.0	2038.4	2040.1
15°	2006.3	1997.8	1996.1	2004.6	2006.3
17.5°	1962.3	1963.9	1957.2	1969.0	1967.3
20°	1919.9	1916.5	1913.2	1926.7	1928.4
22.5°	1872.5	1862.4	1865.7	1877.6	1881.0
25°	1815.0	1804.8	1811.6	1818.3	1821.7
27.5°	1754.0	1748.9	1747.2	1755.7	1759.1
30°	1693.1	1684.6	1684.6	1694.7	1689.7
32.5°	1618.6	1611.8	1615.2	1618.6	1620.3
35°	1550.8	1539.0	1544.1	1539.0	1540.7
37.5°	1471.3	1462.8	1461.1	1459.4	1459.4
40°	1396.8	1390.0	1383.2	1383.2	1374.8
42.5°	1315.5	1307.0	1303.7	1298.6	1293.5
45°	1230.9	1220.7	1219.0	1213.9	1213.9
47.5°	1154.7	1139.4	1137.7	1127.6	1127.6
50°	1068.3	1058.2	1051.4	1044.6	1039.5
52.5°	990.4	980.3	970.1	963.3	958.3
55°	902.4	890.5	888.9	880.4	880.4
57.5°	822.8	812.7	805.9	795.7	797.4
60°	739.9	729.7	726.3	717.9	717.9
62.5°	662.0	653.5	648.4	640.0	633.2
65°	590.9	579.0	568.9	562.1	563.8
67.5°	513.0	499.5	494.4	487.6	482.5
70°	438.5	430.0	421.6	413.1	413.1
72.5°	369.1	360.6	355.5	345.4	342.0
75°	304.7	294.6	286.1	279.4	274.3
77.5°	240.4	230.3	225.2	216.7	216.7
80°	179.5	172.7	167.6	164.2	157.5
82.5°	123.6	120.2	115.1	110.0	105.0
85°	72.8	71.1	67.7	59.3	57.6
87.5°	28.8	28.8	25.4	23.7	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)