

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: P296069

Luminaire Tested: **24RLN-LD5-67-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296069
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-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5915.0 lumens
Efficiency: N/A
Efficacy: 120.2 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

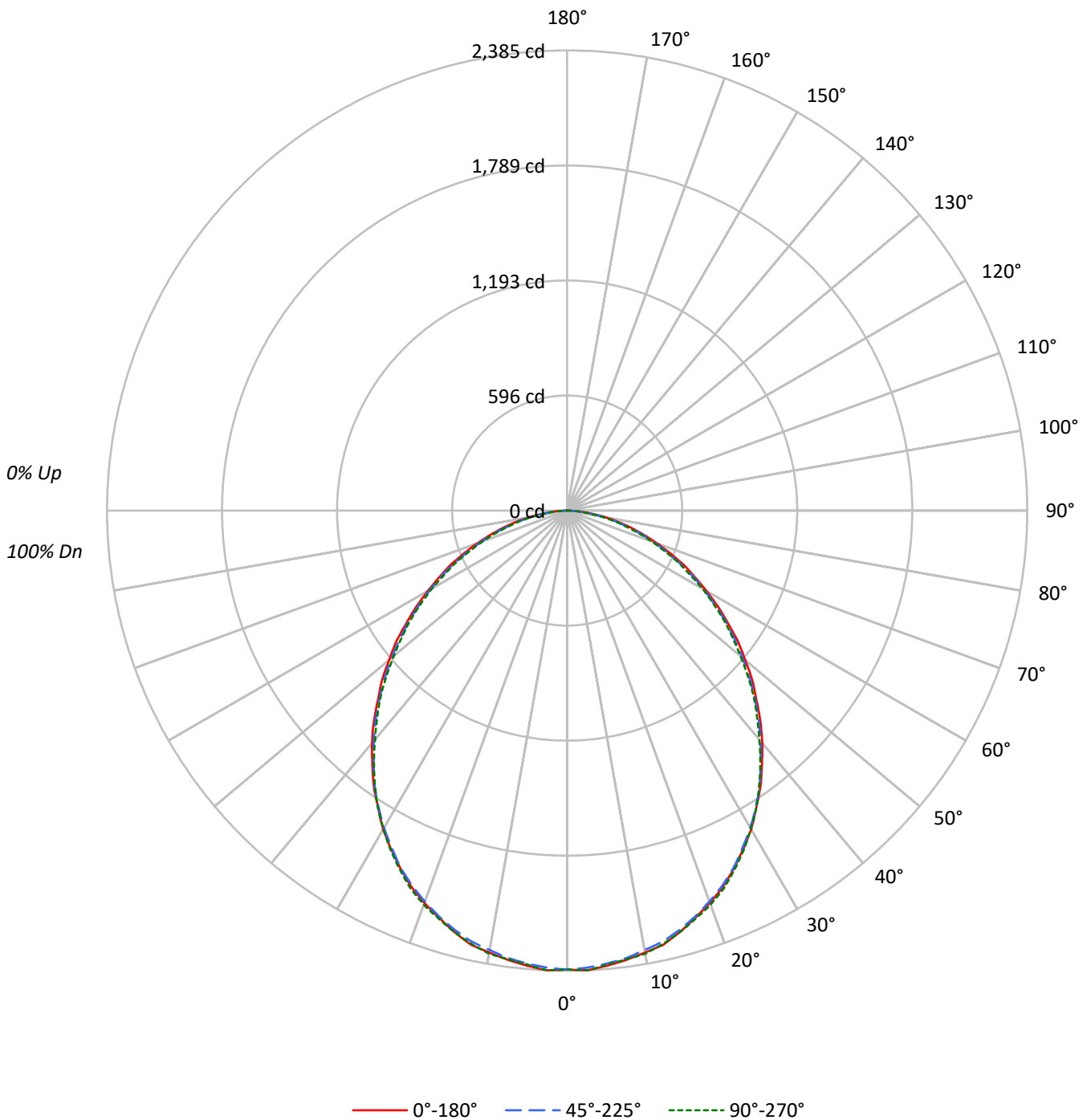
Input Watts (W): 49.197
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3199	3199	3199
5°	3198	3183	3191
10°	3178	3160	3186
15°	3150	3134	3150
20°	3098	3087	3112
25°	3037	3031	3048
30°	2965	2950	2959
35°	2871	2859	2852
40°	2765	2738	2722
45°	2640	2614	2603
50°	2520	2480	2453
55°	2386	2350	2328
60°	2244	2203	2177
65°	2120	2041	2023
70°	1944	1869	1832
75°	1786	1677	1607
80°	1567	1464	1375
85°	1267	1178	1002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.3	3.8
10°-20°	636.0	10.8
20°-30°	940.8	15.9
30°-40°	1085.7	18.4
40°-50°	1060.4	17.9
50°-60°	895.5	15.1
60°-70°	637.8	10.8
70°-80°	345.4	5.8
80°-90°	89.1	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°	1801.1	30.4
0°-40°	2886.8	48.8
0°-60°	4842.7	81.9
0°-90°	5915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5915.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2378	2378	2378	2378	2378	
5°	2368	2368	2357	2362	2362	225
15°	2261	2252	2250	2259	2261	637
25°	2046	2034	2042	2049	2053	942
35°	1748	1735	1740	1735	1736	1091
45°	1387	1376	1374	1368	1368	1073
55°	1017	1004	1002	992	992	912
65°	666	653	641	634	635	657
75°	344	332	322	315	309	364
85°	82	80	76	67	65	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2377.7	2377.7	2377.7	2377.7	2377.7
2.5°	2385.3	2375.8	2371.9	2373.8	2385.3
5°	2368.1	2368.1	2356.7	2362.4	2362.4
7.5°	2349.0	2350.9	2339.5	2349.0	2345.2
10°	2326.1	2320.4	2312.8	2328.0	2331.9
12.5°	2305.1	2291.8	2288.0	2297.5	2299.4
15°	2261.3	2251.7	2249.8	2259.4	2261.3
17.5°	2211.6	2213.6	2205.9	2219.3	2217.4
20°	2163.9	2160.1	2156.3	2171.6	2173.5
22.5°	2110.5	2099.1	2102.9	2116.2	2120.0
25°	2045.6	2034.2	2041.8	2049.4	2053.3
27.5°	1976.9	1971.2	1969.3	1978.8	1982.7
30°	1908.2	1898.7	1898.7	1910.1	1904.4
32.5°	1824.3	1816.6	1820.5	1824.3	1826.2
35°	1747.9	1734.6	1740.3	1734.6	1736.5
37.5°	1658.3	1648.7	1646.8	1644.9	1644.9
40°	1574.3	1566.7	1559.0	1559.0	1549.5
42.5°	1482.7	1473.2	1469.3	1463.6	1457.9
45°	1387.3	1375.8	1373.9	1368.2	1368.2
47.5°	1301.4	1284.2	1282.3	1270.9	1270.9
50°	1204.1	1192.6	1185.0	1177.4	1171.7
52.5°	1116.3	1104.9	1093.4	1085.8	1080.1
55°	1017.1	1003.7	1001.8	992.3	992.3
57.5°	927.4	916.0	908.3	896.9	898.8
60°	833.9	822.4	818.6	809.1	809.1
62.5°	746.1	736.6	730.9	721.3	713.7
65°	666.0	652.6	641.2	633.5	635.4
67.5°	578.2	562.9	557.2	549.6	543.8
70°	494.2	484.7	475.2	465.6	465.6
72.5°	416.0	406.5	400.7	389.3	385.5
75°	343.5	332.0	322.5	314.9	309.1
77.5°	271.0	259.5	253.8	244.3	244.3
80°	202.3	194.6	188.9	185.1	177.5
82.5°	139.3	135.5	129.8	124.0	118.3
85°	82.1	80.1	76.3	66.8	64.9
87.5°	32.4	32.4	28.6	26.7	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)