

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: P296070

Luminaire Tested: **24RLN-LD5-67-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296070  
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-4500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6068.0 lumens  
Efficiency: N/A  
Efficacy: 122.4 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

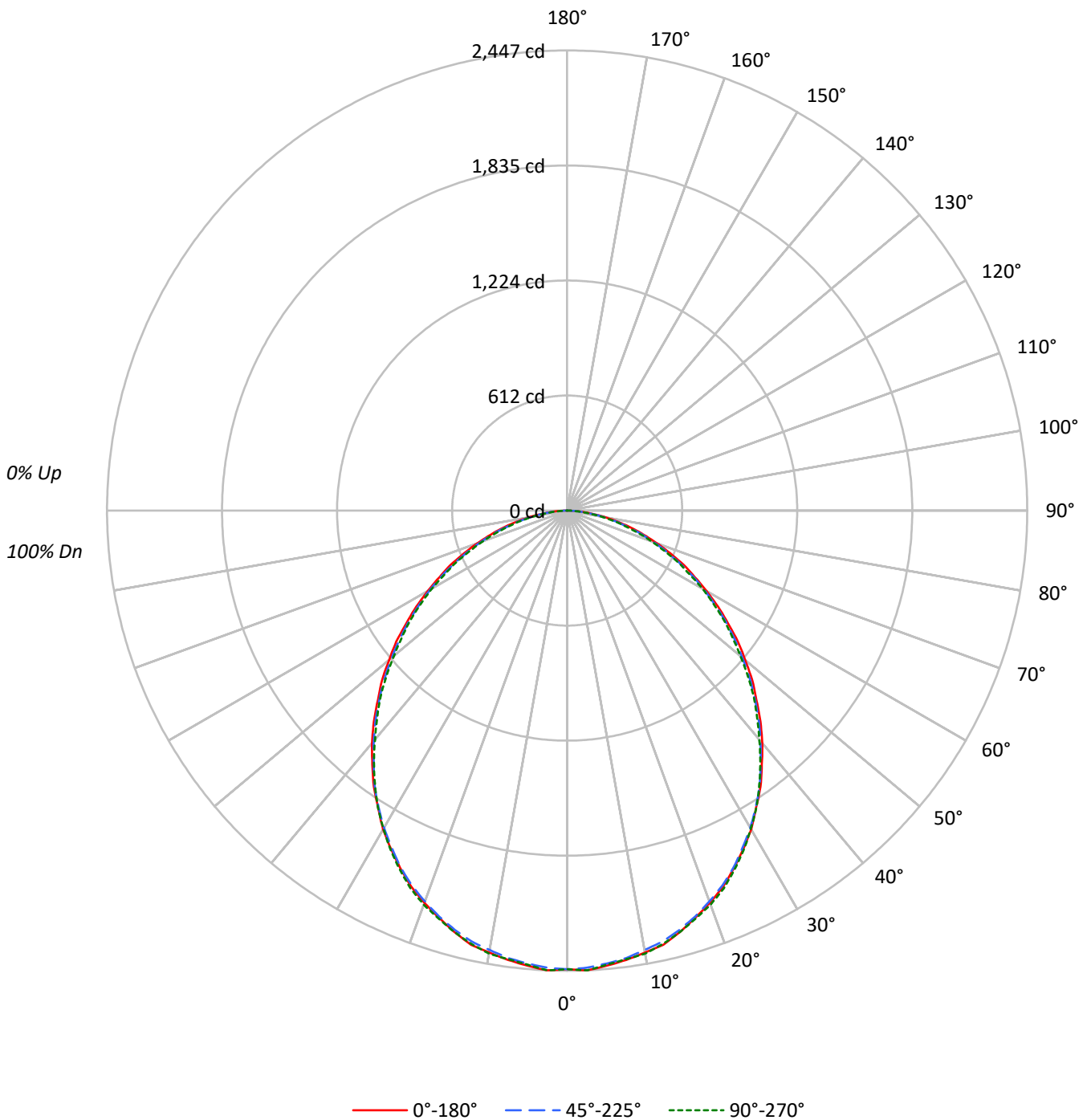
Input Watts (W): 49.569  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3282	3282	3282
5°	3281	3265	3273
10°	3260	3242	3268
15°	3231	3215	3231
20°	3179	3167	3193
25°	3115	3110	3127
30°	3041	3026	3035
35°	2945	2932	2926
40°	2837	2809	2792
45°	2708	2682	2671
50°	2586	2545	2516
55°	2448	2411	2388
60°	2302	2260	2234
65°	2175	2094	2075
70°	1995	1917	1879
75°	1832	1720	1648
80°	1608	1502	1411
85°	1300	1209	1028



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.1	3.8
10°-20°	652.4	10.8
20°-30°	965.1	15.9
30°-40°	1113.8	18.4
40°-50°	1087.9	17.9
50°-60°	918.6	15.1
60°-70°	654.3	10.8
70°-80°	354.3	5.8
80°-90°	91.4	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°	1847.7	30.4
0°-40°	2961.5	48.8
0°-60°	4968.0	81.9
0°-90°	6068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6068.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2439	2439	2439	2439	2439	
5°	2429	2429	2418	2424	2424	231
15°	2320	2310	2308	2318	2320	653
25°	2098	2087	2095	2102	2106	966
35°	1793	1780	1785	1780	1781	1119
45°	1423	1411	1410	1404	1404	1100
55°	1043	1030	1028	1018	1018	935
65°	683	670	658	650	652	674
75°	352	341	331	323	317	373
85°	84	82	78	68	67	99
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2439.2	2439.2	2439.2	2439.2	2439.2
2.5°	2447.0	2437.2	2433.3	2435.2	2447.0
5°	2429.4	2429.4	2417.6	2423.5	2423.5
7.5°	2409.8	2411.8	2400.0	2409.8	2405.9
10°	2386.3	2380.4	2372.6	2388.3	2392.2
12.5°	2364.8	2351.1	2347.2	2356.9	2358.9
15°	2319.8	2310.0	2308.0	2317.8	2319.8
17.5°	2268.9	2270.8	2263.0	2276.7	2274.7
20°	2219.9	2216.0	2212.1	2227.7	2229.7
22.5°	2165.1	2153.4	2157.3	2171.0	2174.9
25°	2098.5	2086.8	2094.6	2102.5	2106.4
27.5°	2028.1	2022.2	2020.2	2030.0	2033.9
30°	1957.6	1947.8	1947.8	1959.6	1953.7
32.5°	1871.5	1863.6	1867.5	1871.5	1873.4
35°	1793.2	1779.5	1785.3	1779.5	1781.4
37.5°	1701.2	1691.4	1689.4	1687.4	1687.4
40°	1615.0	1607.2	1599.4	1599.4	1589.6
42.5°	1521.1	1511.3	1507.3	1501.5	1495.6
45°	1423.2	1411.4	1409.5	1403.6	1403.6
47.5°	1335.1	1317.5	1315.5	1303.8	1303.8
50°	1235.2	1223.5	1215.7	1207.8	1202.0
52.5°	1145.2	1133.4	1121.7	1113.9	1108.0
55°	1043.4	1029.7	1027.7	1017.9	1017.9
57.5°	951.4	939.6	931.8	920.1	922.0
60°	855.5	843.7	839.8	830.0	830.0
62.5°	765.4	755.6	749.8	740.0	732.1
65°	683.2	669.5	657.8	649.9	651.9
67.5°	593.2	577.5	571.6	563.8	557.9
70°	507.0	497.2	487.4	477.7	477.7
72.5°	426.8	417.0	411.1	399.3	395.4
75°	352.4	340.6	330.8	323.0	317.1
77.5°	278.0	266.2	260.4	250.6	250.6
80°	207.5	199.7	193.8	189.9	182.1
82.5°	142.9	139.0	133.1	127.2	121.4
85°	84.2	82.2	78.3	68.5	66.6
87.5°	33.3	33.3	29.4	27.4	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)