

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: P296074

Luminaire Tested: **24RLN-LD5-67-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296074  
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-6500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6356.0 lumens  
Efficiency: N/A  
Efficacy: 124.9 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

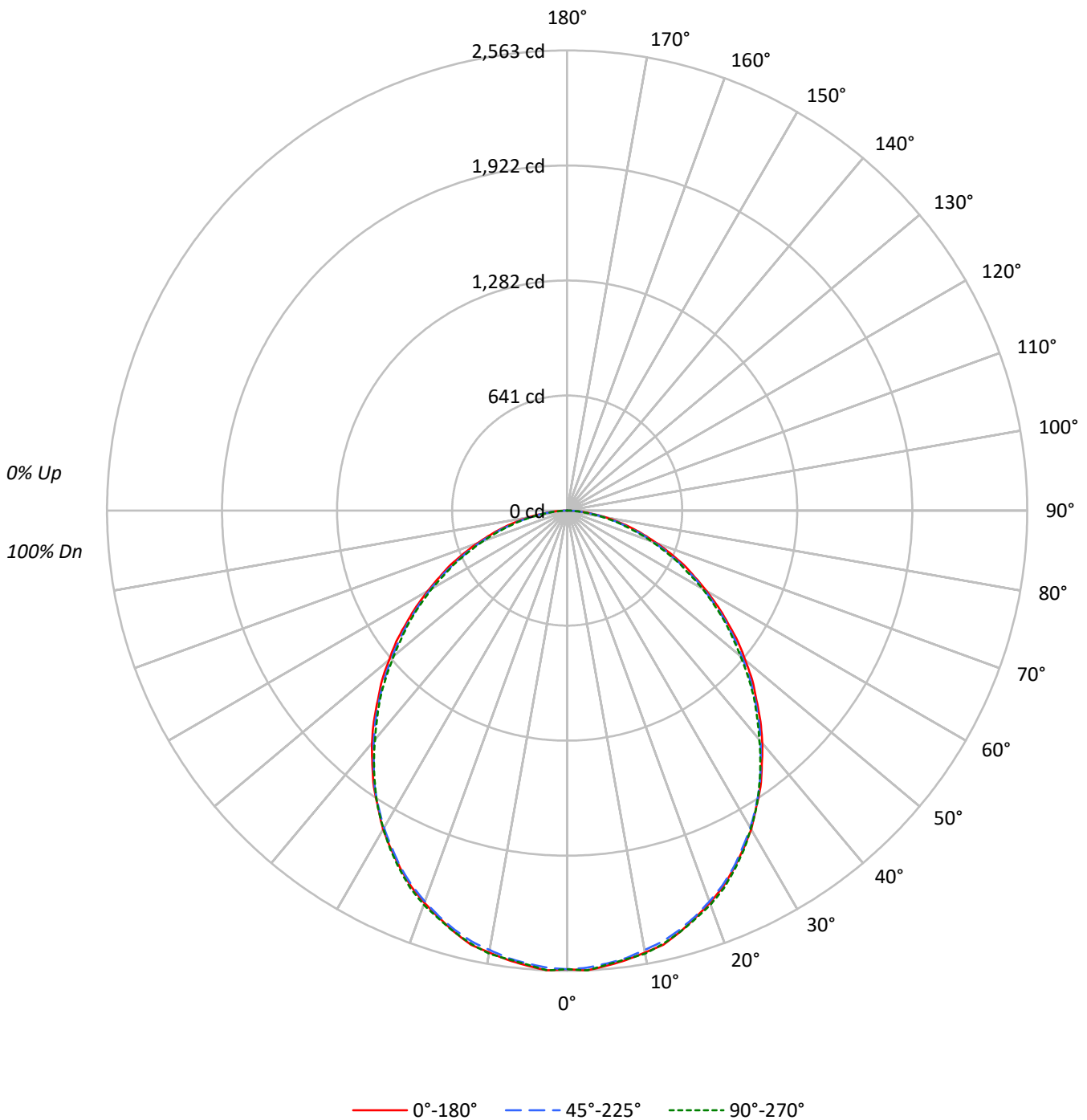
Input Watts (W): 50.871  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3438	3438	3438
5°	3437	3420	3429
10°	3415	3395	3423
15°	3385	3367	3385
20°	3329	3318	3344
25°	3263	3257	3275
30°	3186	3170	3179
35°	3085	3072	3065
40°	2971	2943	2924
45°	2837	2809	2798
50°	2708	2665	2635
55°	2564	2525	2501
60°	2411	2367	2340
65°	2278	2194	2174
70°	2089	2009	1968
75°	1919	1801	1727
80°	1684	1573	1478
85°	1362	1266	1076



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.1	3.8
10°-20°	683.4	10.8
20°-30°	1010.9	15.9
30°-40°	1166.7	18.4
40°-50°	1139.5	17.9
50°-60°	962.2	15.1
60°-70°	685.4	10.8
70°-80°	371.1	5.8
80°-90°	95.8	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°	1935.4	30.4
0°-40°	3102.1	48.8
0°-60°	5203.8	81.9
0°-90°	6356.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6356.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2555	2555	2555	2555	2555	
5°	2545	2545	2532	2538	2538	241
15°	2430	2420	2418	2428	2430	684
25°	2198	2186	2194	2202	2206	1012
35°	1878	1864	1870	1864	1866	1172
45°	1491	1478	1476	1470	1470	1153
55°	1093	1079	1076	1066	1066	980
65°	716	701	689	681	683	705
75°	369	357	346	338	332	391
85°	88	86	82	72	70	104
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2554.9	2554.9	2554.9	2554.9	2554.9
2.5°	2563.1	2552.9	2548.8	2550.8	2563.1
5°	2544.7	2544.7	2532.4	2538.5	2538.5
7.5°	2524.2	2526.2	2513.9	2524.2	2520.1
10°	2499.6	2493.4	2485.2	2501.6	2505.7
12.5°	2477.0	2462.7	2458.6	2468.8	2470.9
15°	2429.9	2419.6	2417.5	2427.8	2429.9
17.5°	2376.5	2378.6	2370.4	2384.7	2382.7
20°	2325.3	2321.2	2317.1	2333.5	2335.5
22.5°	2267.9	2255.6	2259.7	2274.0	2278.1
25°	2198.1	2185.8	2194.0	2202.2	2206.3
27.5°	2124.3	2118.2	2116.1	2126.4	2130.5
30°	2050.5	2040.3	2040.3	2052.6	2046.4
32.5°	1960.3	1952.1	1956.2	1960.3	1962.3
35°	1878.3	1863.9	1870.1	1863.9	1866.0
37.5°	1781.9	1771.6	1769.6	1767.5	1767.5
40°	1691.7	1683.5	1675.3	1675.3	1665.0
42.5°	1593.2	1583.0	1578.9	1572.7	1566.6
45°	1490.7	1478.4	1476.4	1470.2	1470.2
47.5°	1398.4	1380.0	1377.9	1365.6	1365.6
50°	1293.9	1281.6	1273.4	1265.2	1259.0
52.5°	1199.5	1187.2	1174.9	1166.7	1160.6
55°	1092.9	1078.6	1076.5	1066.3	1066.3
57.5°	996.5	984.2	976.0	963.7	965.8
60°	896.1	883.8	879.7	869.4	869.4
62.5°	801.7	791.5	785.3	775.1	766.9
65°	715.6	701.3	689.0	680.8	682.8
67.5°	621.3	604.9	598.7	590.5	584.4
70°	531.1	520.8	510.6	500.3	500.3
72.5°	447.0	436.8	430.6	418.3	414.2
75°	369.1	356.8	346.5	338.3	332.2
77.5°	291.2	278.9	272.7	262.5	262.5
80°	217.4	209.2	203.0	198.9	190.7
82.5°	149.7	145.6	139.4	133.3	127.1
85°	88.2	86.1	82.0	71.8	69.7
87.5°	34.9	34.9	30.8	28.7	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)