

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: P295991

Luminaire Tested: **24RLN-LD5-67-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295991  
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-L93050-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: 6255.0 lumens  
Efficiency: N/A  
Efficacy: 123.4 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

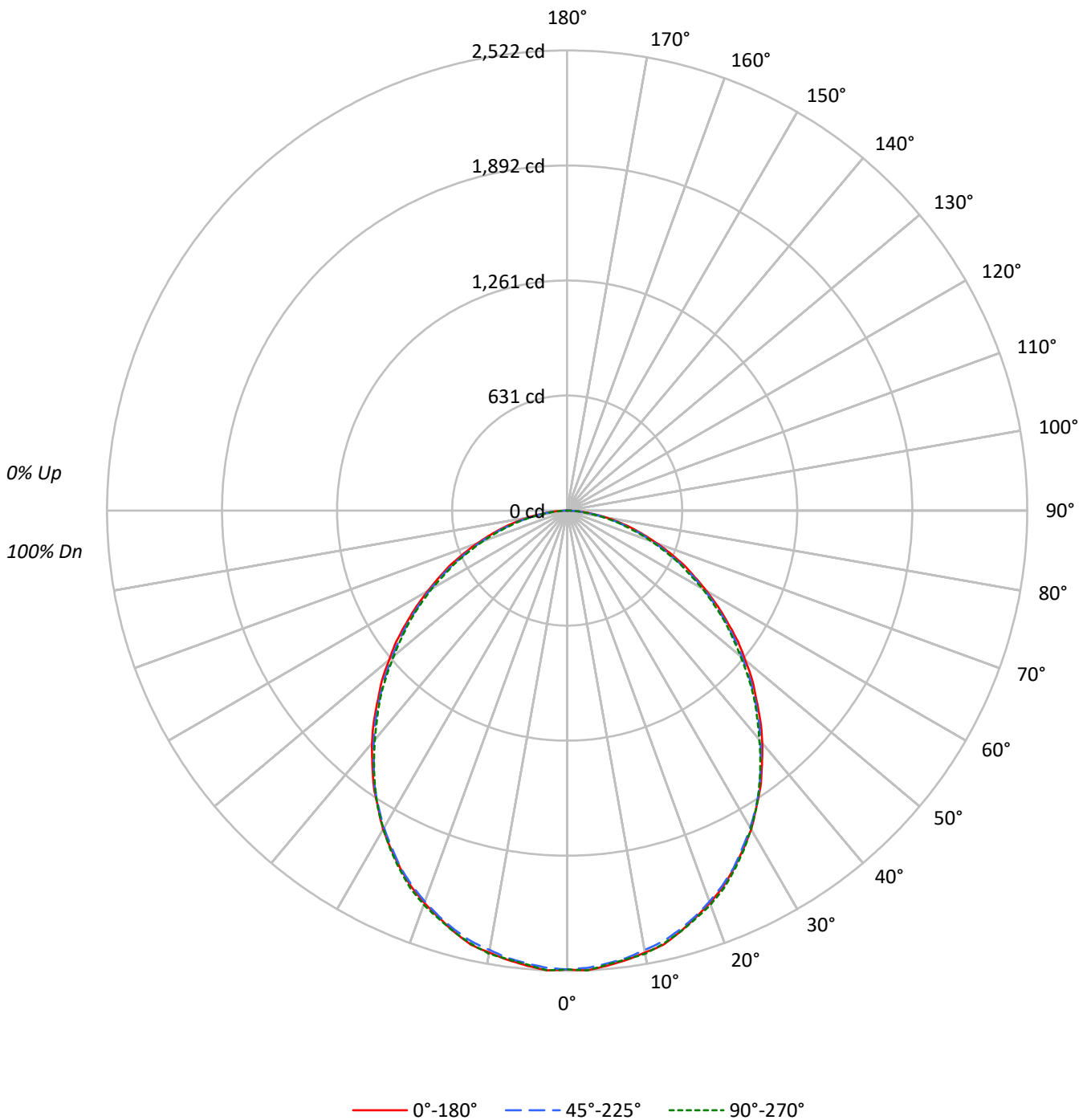
Input Watts (W): 50.685  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3383	3383	3383
5°	3382	3366	3374
10°	3361	3341	3369
15°	3331	3314	3331
20°	3276	3265	3291
25°	3211	3206	3223
30°	3135	3119	3129
35°	3036	3023	3016
40°	2924	2896	2878
45°	2791	2765	2753
50°	2665	2623	2593
55°	2523	2485	2461
60°	2373	2330	2302
65°	2242	2159	2139
70°	2056	1977	1937
75°	1888	1773	1699
80°	1657	1548	1454
85°	1340	1246	1059



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.2	3.8
10°-20°	672.5	10.8
20°-30°	994.8	15.9
30°-40°	1148.1	18.4
40°-50°	1121.4	17.9
50°-60°	946.9	15.1
60°-70°	674.5	10.8
70°-80°	365.2	5.8
80°-90°	94.2	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°	1904.6	30.4
0°-40°	3052.8	48.8
0°-60°	5121.1	81.9
0°-90°	6255.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6255.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2514	2514	2514	2514	2514	
5°	2504	2504	2492	2498	2498	238
15°	2391	2381	2379	2389	2391	674
25°	2163	2151	2159	2167	2171	996
35°	1848	1834	1840	1834	1836	1154
45°	1467	1455	1453	1447	1447	1134
55°	1076	1061	1059	1049	1049	964
65°	704	690	678	670	672	694
75°	363	351	341	333	327	384
85°	87	85	81	71	69	102
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2514.3	2514.3	2514.3	2514.3	2514.3
2.5°	2522.4	2512.3	2508.3	2510.3	2522.4
5°	2504.2	2504.2	2492.1	2498.2	2498.2
7.5°	2484.1	2486.1	2474.0	2484.1	2480.0
10°	2459.8	2453.8	2445.7	2461.9	2465.9
12.5°	2437.7	2423.5	2419.5	2429.6	2431.6
15°	2391.2	2381.1	2379.1	2389.2	2391.2
17.5°	2338.8	2340.8	2332.7	2346.8	2344.8
20°	2288.3	2284.3	2280.3	2296.4	2298.4
22.5°	2231.8	2219.7	2223.8	2237.9	2241.9
25°	2163.2	2151.1	2159.2	2167.2	2171.3
27.5°	2090.6	2084.5	2082.5	2092.6	2096.6
30°	2017.9	2007.8	2007.8	2019.9	2013.9
32.5°	1929.1	1921.1	1925.1	1929.1	1931.2
35°	1848.4	1834.3	1840.3	1834.3	1836.3
37.5°	1753.6	1743.5	1741.5	1739.4	1739.4
40°	1664.8	1656.7	1648.6	1648.6	1638.6
42.5°	1567.9	1557.8	1553.8	1547.7	1541.7
45°	1467.0	1454.9	1452.9	1446.9	1446.9
47.5°	1376.2	1358.1	1356.0	1343.9	1343.9
50°	1273.3	1261.2	1253.1	1245.1	1239.0
52.5°	1180.5	1168.4	1156.3	1148.2	1142.1
55°	1075.6	1061.4	1059.4	1049.3	1049.3
57.5°	980.7	968.6	960.5	948.4	950.4
60°	881.8	869.7	865.7	855.6	855.6
62.5°	789.0	778.9	772.9	762.8	754.7
65°	704.3	690.1	678.0	670.0	672.0
67.5°	611.4	595.3	589.2	581.2	575.1
70°	522.6	512.6	502.5	492.4	492.4
72.5°	439.9	429.8	423.8	411.7	407.6
75°	363.2	351.1	341.0	333.0	326.9
77.5°	286.5	274.4	268.4	258.3	258.3
80°	213.9	205.8	199.8	195.7	187.7
82.5°	147.3	143.3	137.2	131.2	125.1
85°	86.8	84.8	80.7	70.6	68.6
87.5°	34.3	34.3	30.3	28.3	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)