

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: P295927

Luminaire Tested: **24RLN-LD5-67-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295927  
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-L82765-W2A1-U-3000K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6323.0 lumens  
Efficiency: N/A  
Efficacy: 131.0 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

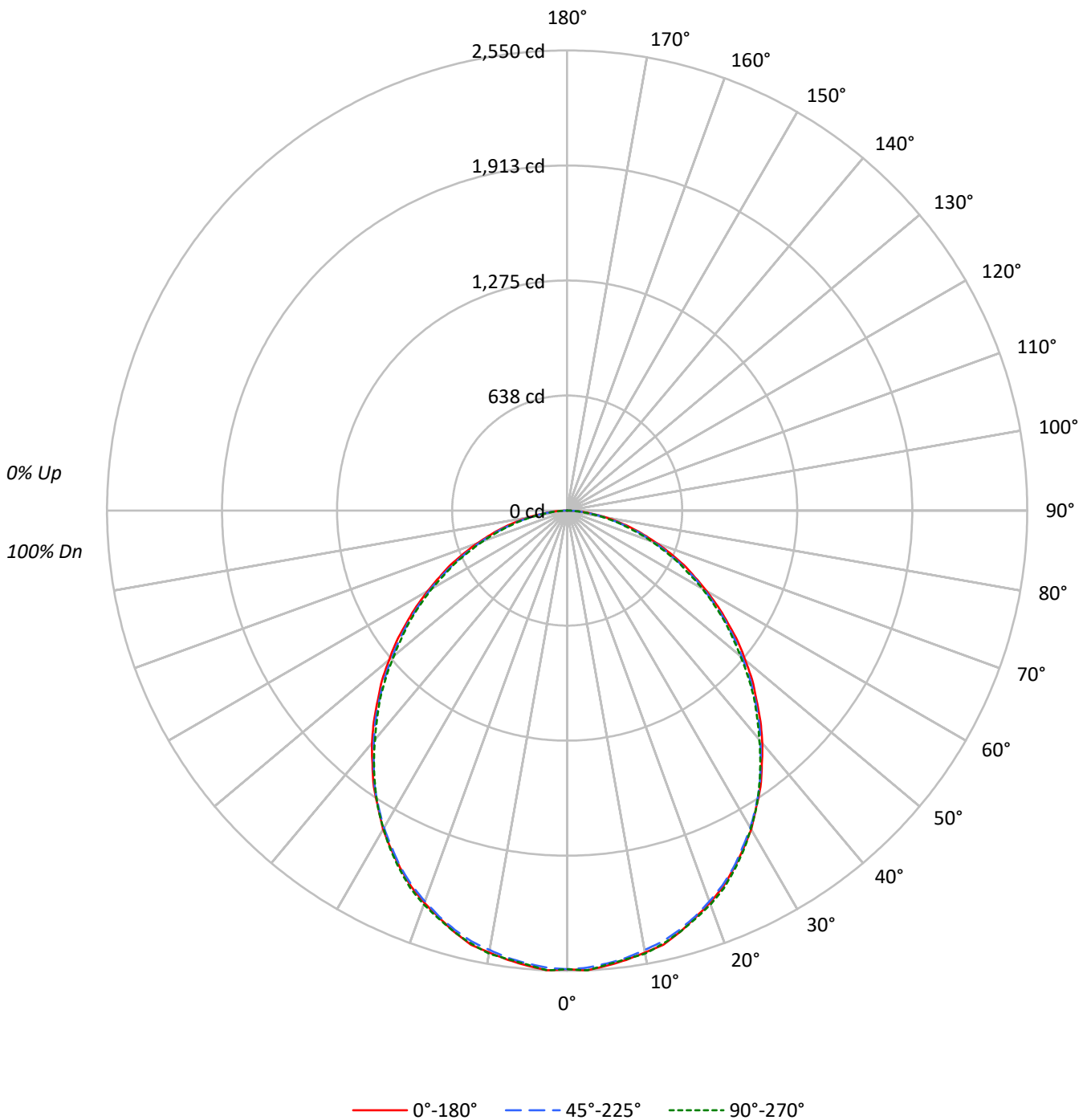
Input Watts (W): 48.267  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3420	3420	3420
5°	3419	3403	3411
10°	3397	3378	3406
15°	3367	3350	3367
20°	3312	3300	3327
25°	3246	3240	3259
30°	3169	3153	3163
35°	3069	3056	3049
40°	2956	2927	2909
45°	2822	2795	2783
50°	2694	2652	2622
55°	2550	2512	2488
60°	2399	2355	2327
65°	2266	2182	2163
70°	2078	1998	1958
75°	1909	1792	1718
80°	1675	1564	1470
85°	1354	1260	1071



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.8	3.8
10°-20°	679.9	10.8
20°-30°	1005.6	15.9
30°-40°	1160.6	18.4
40°-50°	1133.6	17.9
50°-60°	957.2	15.1
60°-70°	681.8	10.8
70°-80°	369.2	5.8
80°-90°	95.3	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°	1925.3	30.4
0°-40°	3086.0	48.8
0°-60°	5176.8	81.9
0°-90°	6323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6323.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2542	2542	2542	2542	2542	
5°	2532	2532	2519	2525	2525	240
15°	2417	2407	2405	2415	2417	681
25°	2187	2174	2183	2191	2195	1007
35°	1868	1854	1860	1854	1856	1166
45°	1483	1471	1469	1463	1463	1147
55°	1087	1073	1071	1061	1061	975
65°	712	698	685	677	679	702
75°	367	355	345	337	330	389
85°	88	86	82	71	69	103
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2541.7	2541.7	2541.7	2541.7	2541.7
2.5°	2549.8	2539.6	2535.5	2537.6	2549.8
5°	2531.5	2531.5	2519.2	2525.3	2525.3
7.5°	2511.1	2513.1	2500.9	2511.1	2507.0
10°	2486.6	2480.5	2472.3	2488.6	2492.7
12.5°	2464.2	2449.9	2445.8	2456.0	2458.0
15°	2417.2	2407.0	2405.0	2415.2	2417.2
17.5°	2364.2	2366.2	2358.1	2372.4	2370.3
20°	2313.2	2309.1	2305.0	2321.4	2323.4
22.5°	2256.1	2243.8	2247.9	2262.2	2266.3
25°	2186.7	2174.5	2182.7	2190.8	2194.9
27.5°	2113.3	2107.2	2105.1	2115.3	2119.4
30°	2039.9	2029.7	2029.7	2041.9	2035.8
32.5°	1950.1	1941.9	1946.0	1950.1	1952.1
35°	1868.5	1854.2	1860.4	1854.2	1856.3
37.5°	1772.6	1762.4	1760.4	1758.4	1758.4
40°	1682.9	1674.7	1666.6	1666.6	1656.4
42.5°	1585.0	1574.8	1570.7	1564.6	1558.5
45°	1483.0	1470.7	1468.7	1462.6	1462.6
47.5°	1391.2	1372.8	1370.8	1358.5	1358.5
50°	1287.2	1274.9	1266.8	1258.6	1252.5
52.5°	1193.3	1181.1	1168.8	1160.7	1154.6
55°	1087.2	1073.0	1070.9	1060.7	1060.7
57.5°	991.4	979.1	971.0	958.7	960.8
60°	891.4	879.2	875.1	864.9	864.9
62.5°	797.6	787.4	781.3	771.1	762.9
65°	711.9	697.6	685.4	677.2	679.3
67.5°	618.1	601.8	595.6	587.5	581.4
70°	528.3	518.1	507.9	497.7	497.7
72.5°	444.7	434.5	428.4	416.1	412.1
75°	367.2	354.9	344.7	336.6	330.5
77.5°	289.7	277.4	271.3	261.1	261.1
80°	216.2	208.1	201.9	197.9	189.7
82.5°	148.9	144.8	138.7	132.6	126.5
85°	87.7	85.7	81.6	71.4	69.4
87.5°	34.7	34.7	30.6	28.6	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)