

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: P295989

Luminaire Tested: **24RLN-LD5-67-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295989  
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-3500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5692.0 lumens  
Efficiency: N/A  
Efficacy: 114.8 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

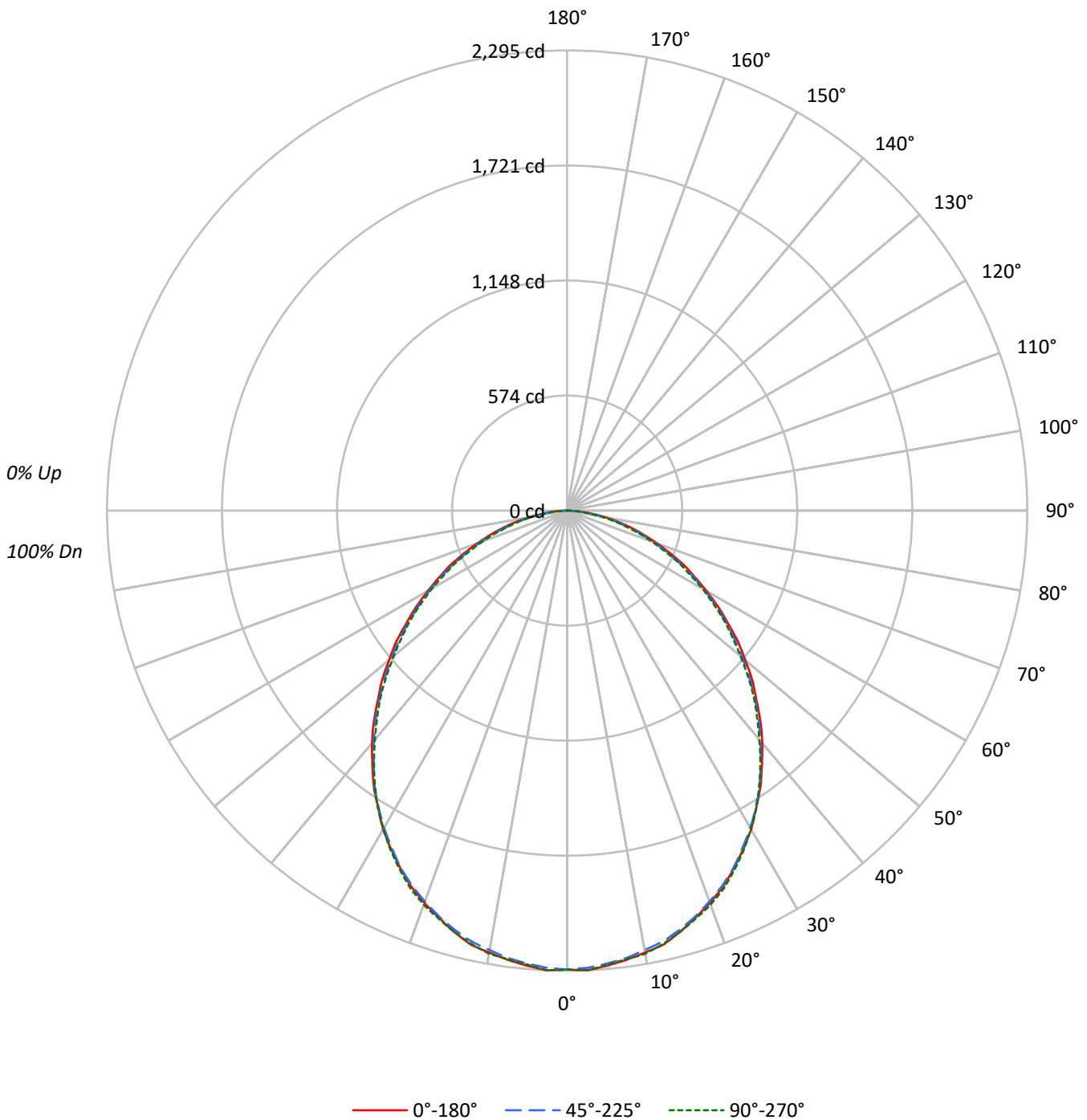
Input Watts (W): 49.569  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3078	3078	3078
5°	3078	3063	3070
10°	3058	3041	3066
15°	3031	3016	3031
20°	2982	2971	2995
25°	2922	2917	2933
30°	2853	2839	2847
35°	2763	2751	2745
40°	2661	2635	2619
45°	2540	2516	2505
50°	2425	2387	2360
55°	2296	2262	2240
60°	2160	2120	2095
65°	2040	1964	1947
70°	1871	1799	1763
75°	1718	1613	1547
80°	1508	1409	1323
85°	1220	1135	963



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.9	3.8
10°-20°	612.0	10.8
20°-30°	905.3	15.9
30°-40°	1044.8	18.4
40°-50°	1020.4	17.9
50°-60°	861.7	15.1
60°-70°	613.8	10.8
70°-80°	332.3	5.8
80°-90°	85.8	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°	1733.2	30.4
0°-40°	2778.0	48.8
0°-60°	4660.2	81.9
0°-90°	5692.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5692.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2288	2288	2288	2288	2288	
5°	2279	2279	2268	2273	2273	216
15°	2176	2167	2165	2174	2176	613
25°	1968	1958	1965	1972	1976	906
35°	1682	1669	1675	1669	1671	1050
45°	1335	1324	1322	1317	1317	1032
55°	979	966	964	955	955	877
65°	641	628	617	610	612	632
75°	330	320	310	303	298	350
85°	79	77	74	64	62	93
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2288.0	2288.0	2288.0	2288.0	2288.0
2.5°	2295.4	2286.2	2282.5	2284.3	2295.4
5°	2278.8	2278.8	2267.8	2273.3	2273.3
7.5°	2260.5	2262.3	2251.3	2260.5	2256.8
10°	2238.4	2232.9	2225.6	2240.3	2244.0
12.5°	2218.2	2205.4	2201.7	2210.9	2212.7
15°	2176.0	2166.8	2165.0	2174.2	2176.0
17.5°	2128.3	2130.1	2122.8	2135.6	2133.8
20°	2082.4	2078.7	2075.0	2089.7	2091.5
22.5°	2030.9	2019.9	2023.6	2036.4	2040.1
25°	1968.5	1957.5	1964.8	1972.2	1975.9
27.5°	1902.4	1896.9	1895.1	1904.2	1907.9
30°	1836.3	1827.1	1827.1	1838.1	1832.6
32.5°	1755.5	1748.2	1751.8	1755.5	1757.3
35°	1682.0	1669.2	1674.7	1669.2	1671.0
37.5°	1595.7	1586.6	1584.7	1582.9	1582.9
40°	1514.9	1507.6	1500.3	1500.3	1491.1
42.5°	1426.8	1417.6	1413.9	1408.4	1402.9
45°	1335.0	1324.0	1322.1	1316.6	1316.6
47.5°	1252.4	1235.8	1234.0	1223.0	1223.0
50°	1158.7	1147.7	1140.3	1133.0	1127.5
52.5°	1074.2	1063.2	1052.2	1044.9	1039.3
55°	978.7	965.9	964.1	954.9	954.9
57.5°	892.4	881.4	874.1	863.1	864.9
60°	802.5	791.4	787.8	778.6	778.6
62.5°	718.0	708.8	703.3	694.1	686.8
65°	640.9	628.0	617.0	609.6	611.5
67.5°	556.4	541.7	536.2	528.9	523.3
70°	475.6	466.4	457.2	448.1	448.1
72.5°	400.3	391.1	385.6	374.6	370.9
75°	330.5	319.5	310.3	303.0	297.5
77.5°	260.8	249.7	244.2	235.0	235.0
80°	194.6	187.3	181.8	178.1	170.8
82.5°	134.0	130.4	124.9	119.4	113.9
85°	79.0	77.1	73.5	64.3	62.4
87.5°	31.2	31.2	27.5	25.7	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)