

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: P295988

Luminaire Tested: **24RLN-LD5-67-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295988  
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-3000K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5210.0 lumens  
Efficiency: N/A  
Efficacy: 104.7 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

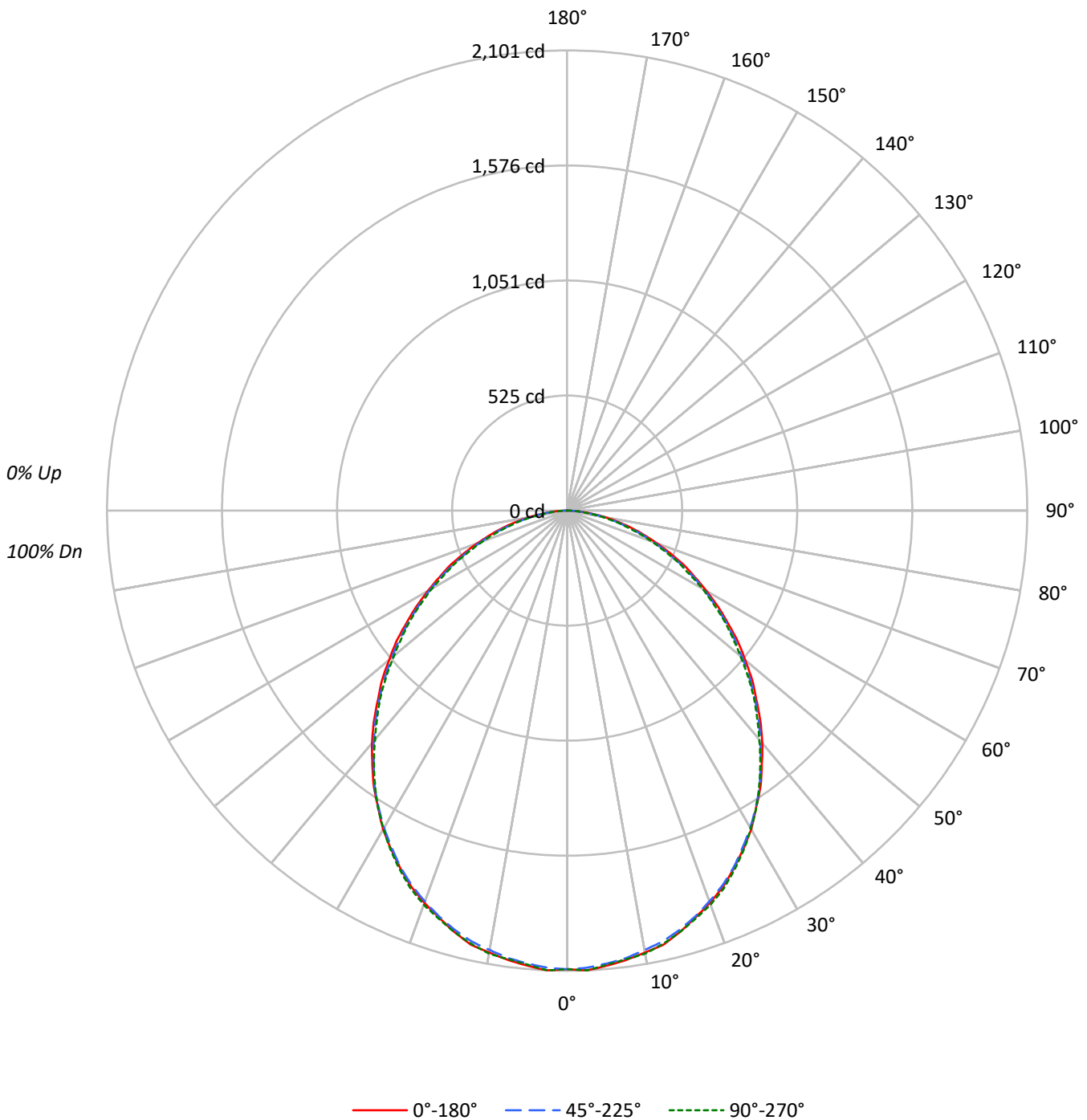
Input Watts (W): 49.755  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2818	2818	2818
5°	2817	2804	2810
10°	2799	2783	2806
15°	2774	2760	2774
20°	2729	2719	2741
25°	2675	2670	2685
30°	2611	2598	2606
35°	2529	2518	2512
40°	2436	2412	2397
45°	2325	2303	2293
50°	2220	2185	2160
55°	2102	2070	2050
60°	1977	1940	1918
65°	1868	1798	1782
70°	1712	1646	1613
75°	1573	1477	1416
80°	1381	1289	1211
85°	1116	1037	881



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.6	3.8
10°-20°	560.2	10.8
20°-30°	828.6	15.9
30°-40°	956.3	18.4
40°-50°	934.0	17.9
50°-60°	788.7	15.1
60°-70°	561.8	10.8
70°-80°	304.2	5.8
80°-90°	78.5	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°	1586.4	30.4
0°-40°	2542.7	48.8
0°-60°	4265.5	81.9
0°-90°	5210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5210.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2094	2094	2094	2094	2094	
5°	2086	2086	2076	2081	2081	198
15°	1992	1983	1982	1990	1992	561
25°	1802	1792	1798	1805	1808	830
35°	1540	1528	1533	1528	1530	961
45°	1222	1212	1210	1205	1205	945
55°	896	884	882	874	874	803
65°	587	575	565	558	560	578
75°	302	292	284	277	272	320
85°	72	71	67	59	57	85
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2094.3	2094.3	2094.3	2094.3	2094.3
2.5°	2101.0	2092.6	2089.2	2090.9	2101.0
5°	2085.9	2085.9	2075.8	2080.8	2080.8
7.5°	2069.1	2070.7	2060.7	2069.1	2065.7
10°	2048.9	2043.8	2037.1	2050.6	2053.9
12.5°	2030.4	2018.6	2015.3	2023.7	2025.4
15°	1991.7	1983.3	1981.7	1990.1	1991.7
17.5°	1948.0	1949.7	1943.0	1954.8	1953.1
20°	1906.0	1902.7	1899.3	1912.7	1914.4
22.5°	1859.0	1848.9	1852.2	1864.0	1867.4
25°	1801.8	1791.7	1798.5	1805.2	1808.5
27.5°	1741.3	1736.3	1734.6	1743.0	1746.3
30°	1680.8	1672.4	1672.4	1682.5	1677.4
32.5°	1606.8	1600.1	1603.5	1606.8	1608.5
35°	1539.6	1527.8	1532.9	1527.8	1529.5
37.5°	1460.6	1452.2	1450.5	1448.8	1448.8
40°	1386.7	1379.9	1373.2	1373.2	1364.8
42.5°	1306.0	1297.6	1294.2	1289.2	1284.1
45°	1221.9	1211.9	1210.2	1205.1	1205.1
47.5°	1146.3	1131.2	1129.5	1119.4	1119.4
50°	1060.6	1050.5	1043.8	1037.1	1032.0
52.5°	983.3	973.2	963.1	956.4	951.3
55°	895.9	884.1	882.4	874.0	874.0
57.5°	816.9	806.8	800.1	790.0	791.7
60°	734.5	724.4	721.1	712.7	712.7
62.5°	657.2	648.8	643.7	635.3	628.6
65°	586.6	574.8	564.7	558.0	559.7
67.5°	509.3	495.8	490.8	484.1	479.0
70°	435.3	426.9	418.5	410.1	410.1
72.5°	366.4	358.0	353.0	342.9	339.5
75°	302.5	292.5	284.1	277.3	272.3
77.5°	238.7	228.6	223.5	215.1	215.1
80°	178.2	171.4	166.4	163.0	156.3
82.5°	122.7	119.3	114.3	109.3	104.2
85°	72.3	70.6	67.2	58.8	57.1
87.5°	28.6	28.6	25.2	23.5	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)