

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: P295908

Luminaire Tested: **24RLN-LD5-55-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295908  
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-LD5-55-UNV-L82765-W2A1-U-2700K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5092.0 lumens  
Efficiency: N/A  
Efficacy: 132.9 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

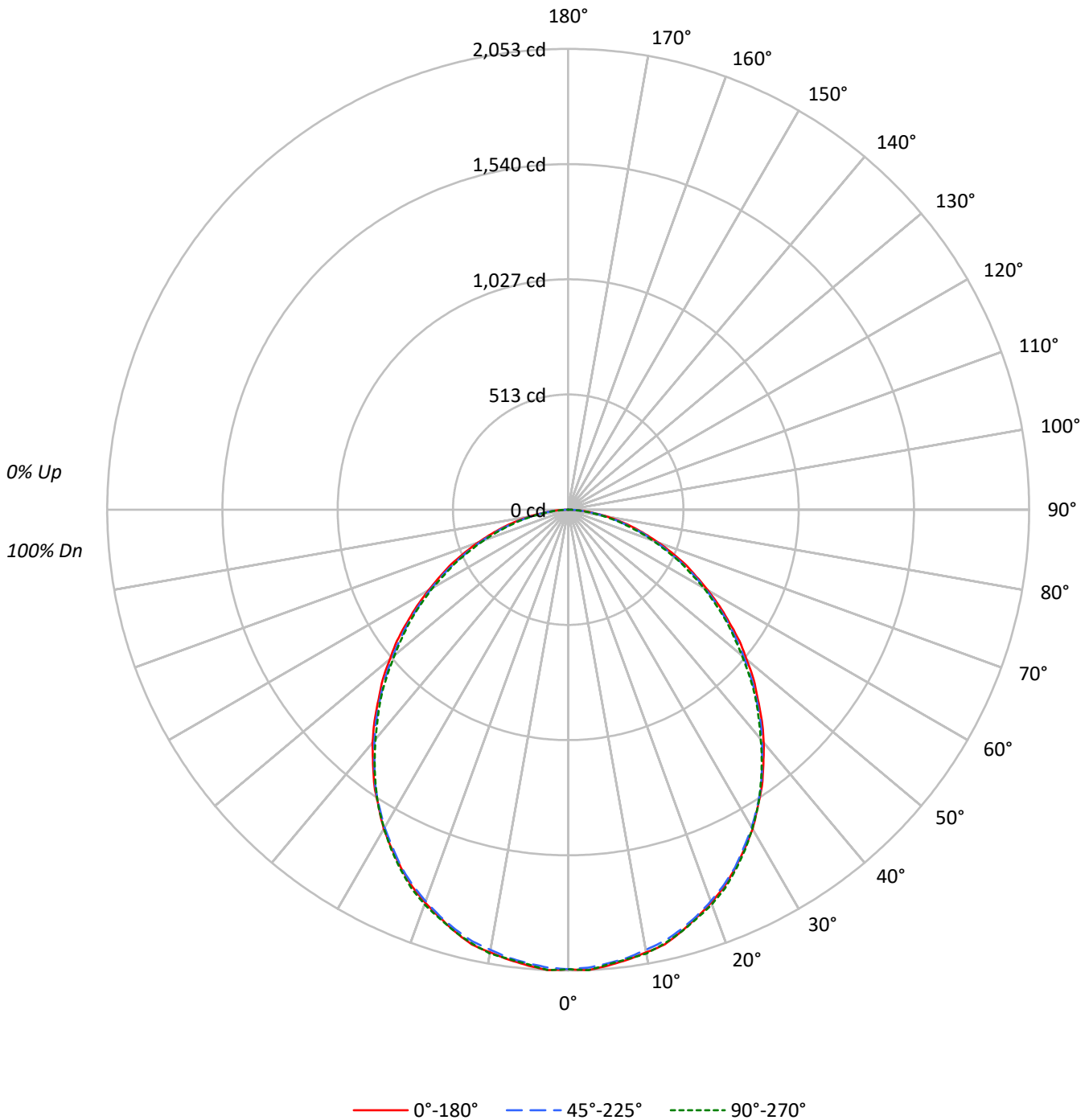
Input Watts (W): 38.316  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2754	2754	2754
5°	2753	2740	2747
10°	2736	2720	2743
15°	2712	2698	2712
20°	2667	2658	2679
25°	2614	2609	2624
30°	2552	2539	2547
35°	2472	2461	2455
40°	2380	2357	2343
45°	2273	2251	2241
50°	2170	2135	2111
55°	2054	2023	2004
60°	1932	1896	1874
65°	1825	1757	1741
70°	1674	1609	1577
75°	1537	1443	1383
80°	1349	1260	1184
85°	1090	1014	863



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.1	3.8
10°-20°	547.5	10.8
20°-30°	809.9	15.9
30°-40°	934.7	18.4
40°-50°	912.9	17.9
50°-60°	770.9	15.1
60°-70°	549.1	10.8
70°-80°	297.3	5.8
80°-90°	76.7	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°	1550.5	30.4
0°-40°	2485.2	48.8
0°-60°	4168.9	81.9
0°-90°	5092.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5092.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2047	2047	2047	2047	2047	
5°	2039	2039	2029	2034	2034	193
15°	1947	1938	1937	1945	1947	548
25°	1761	1751	1758	1764	1768	811
35°	1505	1493	1498	1493	1495	939
45°	1194	1184	1183	1178	1178	923
55°	876	864	862	854	854	785
65°	573	562	552	545	547	565
75°	296	286	278	271	266	313
85°	71	69	66	58	56	83
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2046.8	2046.8	2046.8	2046.8	2046.8
2.5°	2053.4	2045.2	2041.9	2043.6	2053.4
5°	2038.6	2038.6	2028.8	2033.7	2033.7
7.5°	2022.2	2023.8	2014.0	2022.2	2018.9
10°	2002.5	1997.6	1991.0	2004.1	2007.4
12.5°	1984.4	1972.9	1969.6	1977.8	1979.5
15°	1946.6	1938.4	1936.8	1945.0	1946.6
17.5°	1903.9	1905.6	1899.0	1910.5	1908.8
20°	1862.9	1859.6	1856.3	1869.4	1871.1
22.5°	1816.9	1807.0	1810.3	1821.8	1825.1
25°	1761.0	1751.1	1757.7	1764.3	1767.6
27.5°	1701.9	1696.9	1695.3	1703.5	1706.8
30°	1642.7	1634.5	1634.5	1644.4	1639.4
32.5°	1570.4	1563.9	1567.2	1570.4	1572.1
35°	1504.7	1493.2	1498.2	1493.2	1494.9
37.5°	1427.5	1419.3	1417.7	1416.0	1416.0
40°	1355.3	1348.7	1342.1	1342.1	1333.9
42.5°	1276.4	1268.2	1264.9	1260.0	1255.0
45°	1194.3	1184.4	1182.8	1177.8	1177.8
47.5°	1120.3	1105.6	1103.9	1094.1	1094.1
50°	1036.6	1026.7	1020.1	1013.6	1008.6
52.5°	961.0	951.1	941.3	934.7	929.8
55°	875.6	864.1	862.4	854.2	854.2
57.5°	798.4	788.5	781.9	772.1	773.7
60°	717.9	708.0	704.7	696.5	696.5
62.5°	642.3	634.1	629.2	621.0	614.4
65°	573.3	561.8	552.0	545.4	547.0
67.5°	497.7	484.6	479.7	473.1	468.2
70°	425.5	417.3	409.0	400.8	400.8
72.5°	358.1	349.9	345.0	335.1	331.8
75°	295.7	285.8	277.6	271.1	266.1
77.5°	233.3	223.4	218.5	210.3	210.3
80°	174.1	167.6	162.6	159.3	152.8
82.5°	119.9	116.6	111.7	106.8	101.8
85°	70.6	69.0	65.7	57.5	55.9
87.5°	27.9	27.9	24.6	23.0	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)