

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: P295911

Luminaire Tested: **24RLN-LD5-55-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295911  
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-4000K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5539.0 lumens  
Efficiency: N/A  
Efficacy: 142.8 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

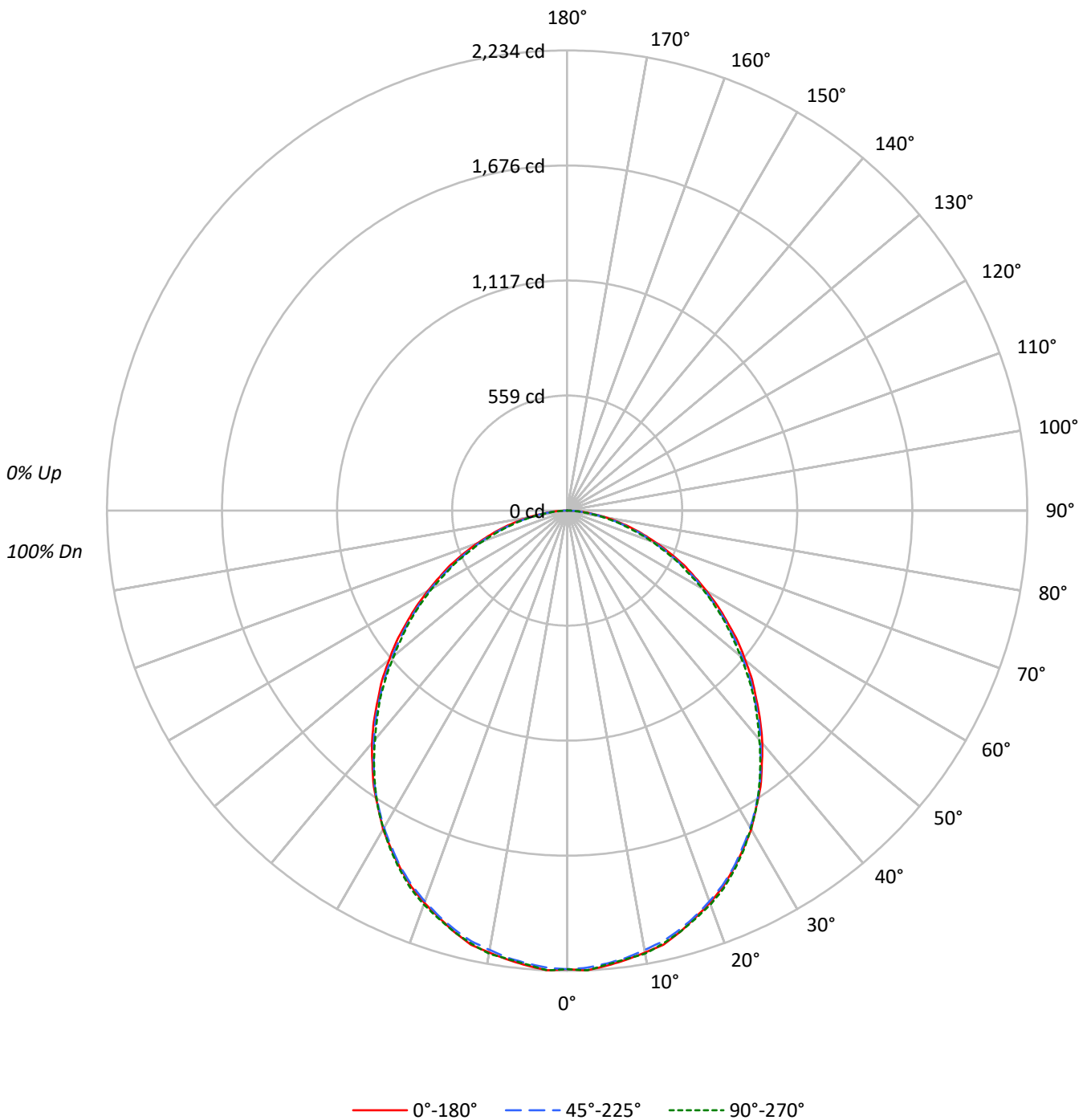
Input Watts (W): 38.781  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2996	2996	2996
5°	2995	2981	2988
10°	2976	2959	2983
15°	2950	2935	2950
20°	2901	2891	2914
25°	2844	2839	2854
30°	2776	2762	2771
35°	2689	2677	2671
40°	2589	2564	2549
45°	2472	2448	2438
50°	2360	2323	2297
55°	2234	2201	2180
60°	2101	2063	2039
65°	1985	1911	1894
70°	1821	1750	1715
75°	1672	1570	1505
80°	1468	1371	1288
85°	1186	1104	939



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.1	3.8
10°-20°	595.6	10.8
20°-30°	881.0	15.9
30°-40°	1016.7	18.4
40°-50°	993.0	17.9
50°-60°	838.5	15.1
60°-70°	597.3	10.8
70°-80°	323.4	5.8
80°-90°	83.4	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°	1686.6	30.4
0°-40°	2703.3	48.8
0°-60°	4534.9	81.9
0°-90°	5539.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5539.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2226	2226	2226	2226	2226	
5°	2218	2218	2207	2212	2212	210
15°	2118	2109	2107	2116	2118	596
25°	1916	1905	1912	1919	1923	882
35°	1637	1624	1630	1624	1626	1021
45°	1299	1288	1287	1281	1281	1005
55°	952	940	938	929	929	854
65°	624	611	600	593	595	615
75°	322	311	302	295	290	340
85°	77	75	72	62	61	90
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2226.5	2226.5	2226.5	2226.5	2226.5
2.5°	2233.7	2224.7	2221.2	2222.9	2233.7
5°	2217.6	2217.6	2206.9	2212.2	2212.2
7.5°	2199.7	2201.5	2190.8	2199.7	2196.1
10°	2178.3	2172.9	2165.8	2180.1	2183.6
12.5°	2158.6	2146.1	2142.5	2151.5	2153.3
15°	2117.5	2108.6	2106.8	2115.7	2117.5
17.5°	2071.1	2072.8	2065.7	2078.2	2076.4
20°	2026.4	2022.8	2019.2	2033.5	2035.3
22.5°	1976.3	1965.6	1969.2	1981.7	1985.3
25°	1915.6	1904.9	1912.0	1919.2	1922.7
27.5°	1851.3	1845.9	1844.1	1853.1	1856.6
30°	1786.9	1778.0	1778.0	1788.7	1783.4
32.5°	1708.3	1701.2	1704.7	1708.3	1710.1
35°	1636.8	1624.3	1629.7	1624.3	1626.1
37.5°	1552.8	1543.9	1542.1	1540.3	1540.3
40°	1474.2	1467.1	1459.9	1459.9	1451.0
42.5°	1388.4	1379.5	1375.9	1370.6	1365.2
45°	1299.1	1288.4	1286.6	1281.2	1281.2
47.5°	1218.7	1202.6	1200.8	1190.1	1190.1
50°	1127.6	1116.8	1109.7	1102.5	1097.2
52.5°	1045.4	1034.6	1023.9	1016.8	1011.4
55°	952.4	939.9	938.1	929.2	929.2
57.5°	868.5	857.7	850.6	839.9	841.6
60°	780.9	770.2	766.6	757.7	757.7
62.5°	698.7	689.8	684.4	675.5	668.3
65°	623.6	611.1	600.4	593.3	595.0
67.5°	541.4	527.1	521.8	514.6	509.3
70°	462.8	453.9	444.9	436.0	436.0
72.5°	389.6	380.6	375.3	364.5	361.0
75°	321.6	310.9	302.0	294.8	289.5
77.5°	253.7	243.0	237.7	228.7	228.7
80°	189.4	182.3	176.9	173.3	166.2
82.5°	130.4	126.9	121.5	116.2	110.8
85°	76.8	75.1	71.5	62.5	60.8
87.5°	30.4	30.4	26.8	25.0	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)