

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: P295914

Luminaire Tested: **24RLN-LD5-55-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295914  
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-5500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5770.0 lumens  
Efficiency: N/A  
Efficacy: 146.3 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

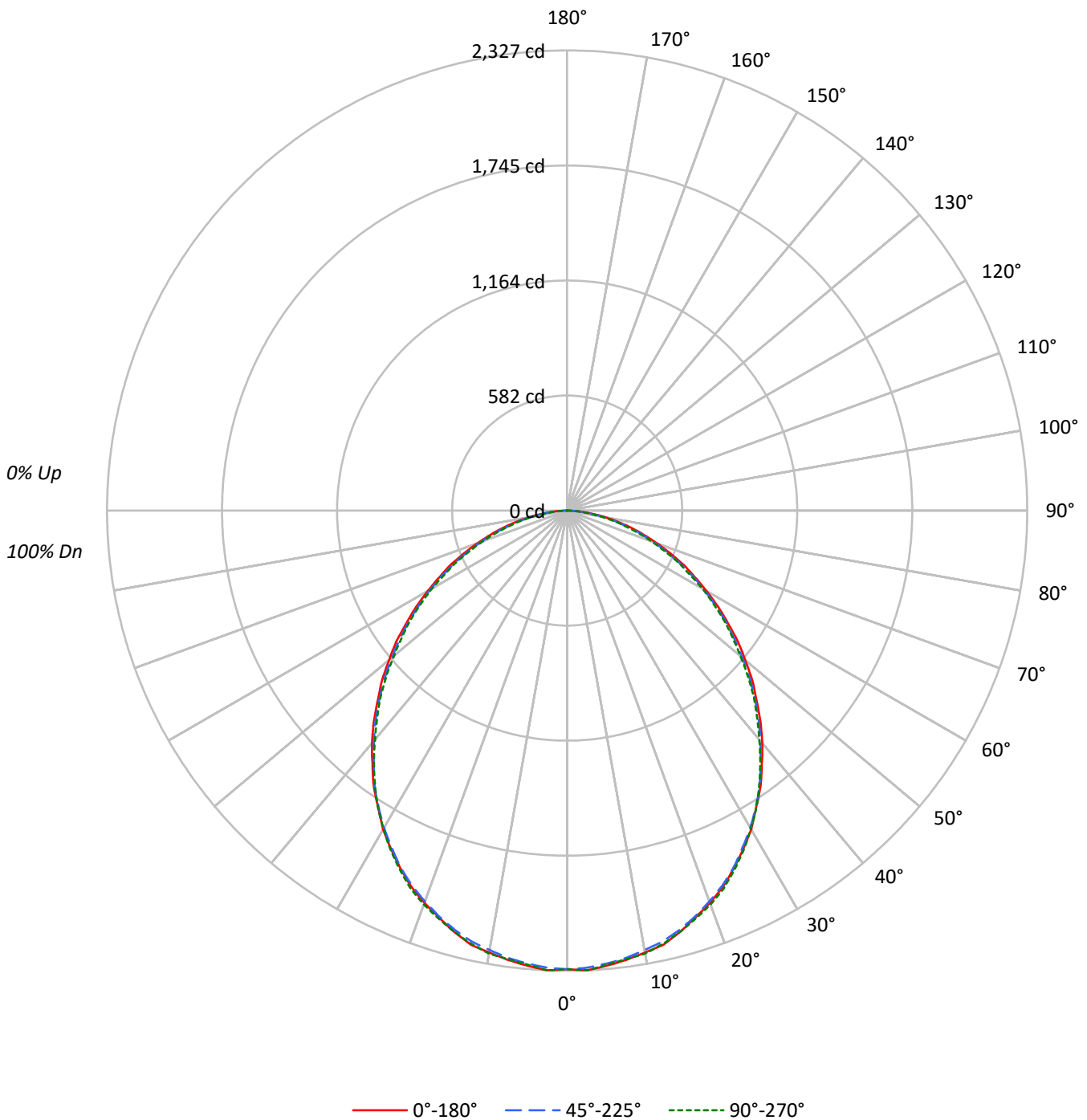
Input Watts (W): 39.432  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3121	3121	3121
5°	3120	3105	3113
10°	3100	3082	3108
15°	3073	3057	3073
20°	3022	3012	3036
25°	2962	2957	2973
30°	2892	2878	2886
35°	2801	2788	2782
40°	2697	2671	2655
45°	2575	2550	2540
50°	2459	2420	2392
55°	2327	2293	2271
60°	2189	2149	2124
65°	2068	1991	1974
70°	1897	1823	1787
75°	1742	1635	1568
80°	1529	1428	1341
85°	1235	1150	977



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.8	3.8
10°-20°	620.4	10.8
20°-30°	917.7	15.9
30°-40°	1059.1	18.4
40°-50°	1034.4	17.9
50°-60°	873.5	15.1
60°-70°	622.2	10.8
70°-80°	336.9	5.8
80°-90°	86.9	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°	1756.9	30.4
0°-40°	2816.1	48.8
0°-60°	4724.0	81.9
0°-90°	5770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5770.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2319	2319	2319	2319	2319	
5°	2310	2310	2299	2304	2304	219
15°	2206	2196	2195	2204	2206	621
25°	1996	1984	1992	1999	2003	919
35°	1705	1692	1698	1692	1694	1064
45°	1353	1342	1340	1335	1335	1046
55°	992	979	977	968	968	890
65°	650	637	625	618	620	640
75°	335	324	315	307	302	355
85°	80	78	74	65	63	94
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2319.4	2319.4	2319.4	2319.4	2319.4
2.5°	2326.8	2317.5	2313.8	2315.7	2326.8
5°	2310.1	2310.1	2298.9	2304.5	2304.5
7.5°	2291.5	2293.3	2282.1	2291.5	2287.7
10°	2269.1	2263.5	2256.1	2271.0	2274.7
12.5°	2248.6	2235.6	2231.9	2241.2	2243.1
15°	2205.8	2196.5	2194.7	2204.0	2205.8
17.5°	2157.4	2159.3	2151.8	2164.9	2163.0
20°	2110.9	2107.2	2103.4	2118.3	2120.2
22.5°	2058.8	2047.6	2051.3	2064.4	2068.1
25°	1995.5	1984.3	1991.8	1999.2	2002.9
27.5°	1928.5	1922.9	1921.0	1930.3	1934.1
30°	1861.5	1852.2	1852.2	1863.3	1857.7
32.5°	1779.6	1772.1	1775.8	1779.6	1781.4
35°	1705.1	1692.1	1697.6	1692.1	1693.9
37.5°	1617.6	1608.3	1606.4	1604.6	1604.6
40°	1535.7	1528.3	1520.8	1520.8	1511.5
42.5°	1446.4	1437.0	1433.3	1427.7	1422.2
45°	1353.3	1342.1	1340.2	1334.7	1334.7
47.5°	1269.5	1252.8	1250.9	1239.7	1239.7
50°	1174.6	1163.4	1156.0	1148.5	1142.9
52.5°	1089.0	1077.8	1066.6	1059.2	1053.6
55°	992.2	979.1	977.3	968.0	968.0
57.5°	904.7	893.5	886.1	874.9	876.7
60°	813.5	802.3	798.6	789.3	789.3
62.5°	727.8	718.5	712.9	703.6	696.2
65°	649.6	636.6	625.4	618.0	619.9
67.5°	564.0	549.1	543.5	536.1	530.5
70°	482.1	472.8	463.5	454.2	454.2
72.5°	405.8	396.5	390.9	379.7	376.0
75°	335.1	323.9	314.6	307.1	301.6
77.5°	264.3	253.2	247.6	238.3	238.3
80°	197.3	189.9	184.3	180.6	173.1
82.5°	135.9	132.2	126.6	121.0	115.4
85°	80.0	78.2	74.5	65.2	63.3
87.5°	31.6	31.6	27.9	26.1	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)