

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: P295840

Luminaire Tested: **24RLN-LD5-55-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295840  
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-L83050-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: 5826.0 lumens  
Efficiency: N/A  
Efficacy: 148.8 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

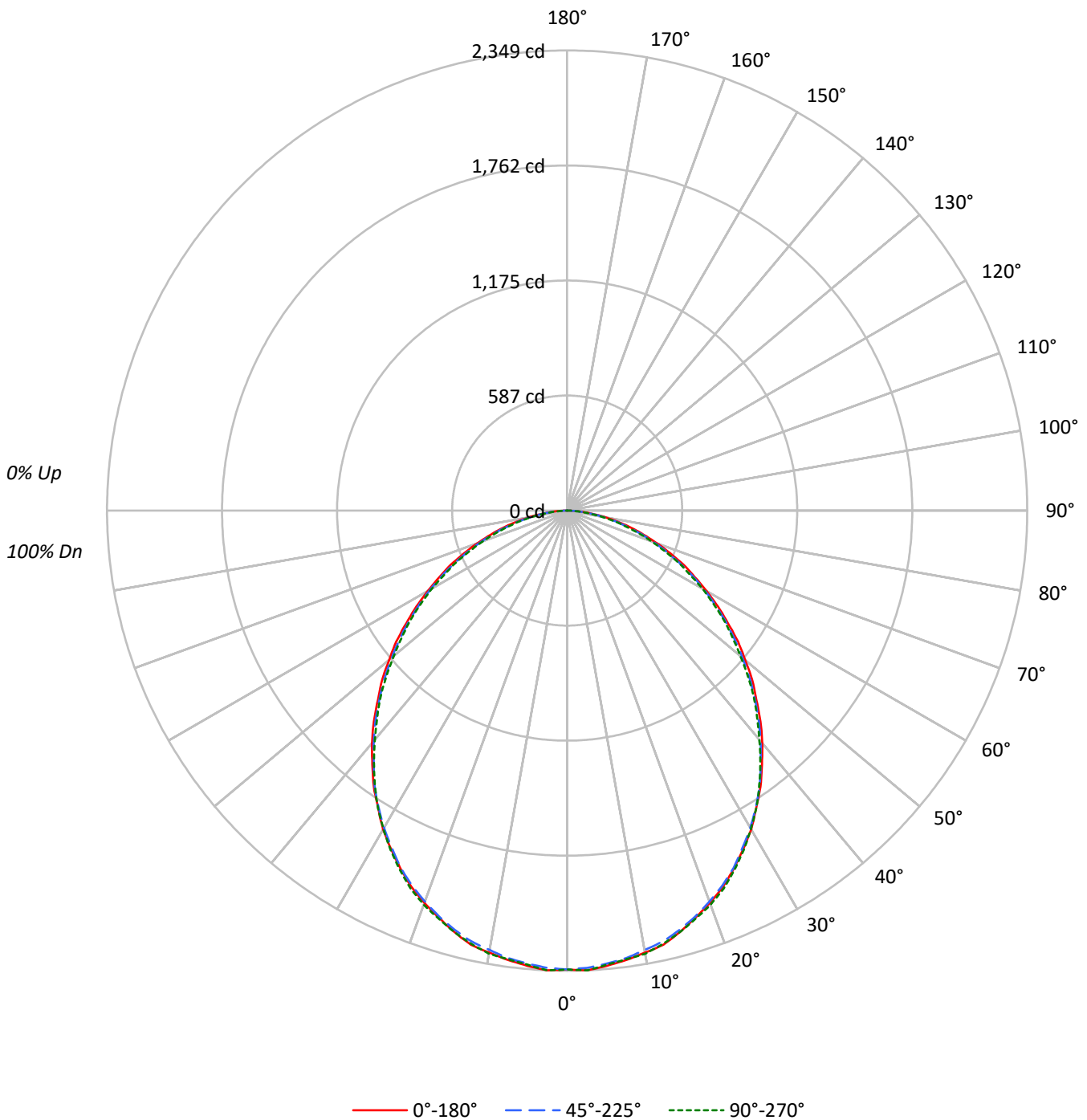
Input Watts (W): 39.153  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3151	3151	3151
5°	3150	3135	3143
10°	3130	3112	3138
15°	3102	3087	3102
20°	3052	3041	3065
25°	2991	2986	3002
30°	2920	2905	2914
35°	2828	2815	2809
40°	2723	2697	2681
45°	2600	2575	2564
50°	2483	2443	2416
55°	2350	2315	2293
60°	2210	2170	2144
65°	2089	2011	1993
70°	1915	1841	1804
75°	1759	1651	1583
80°	1543	1442	1354
85°	1247	1161	986



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.0	3.8
10°-20°	626.4	10.8
20°-30°	926.6	15.9
30°-40°	1069.4	18.4
40°-50°	1044.5	17.9
50°-60°	882.0	15.1
60°-70°	628.2	10.8
70°-80°	340.1	5.8
80°-90°	87.8	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°	1774.0	30.4
0°-40°	2843.4	48.8
0°-60°	4769.9	81.9
0°-90°	5826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5826.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2342	2342	2342	2342	2342	
5°	2332	2332	2321	2327	2327	221
15°	2227	2218	2216	2225	2227	627
25°	2015	2004	2011	2019	2022	928
35°	1722	1708	1714	1708	1710	1074
45°	1366	1355	1353	1348	1348	1057
55°	1002	989	987	977	977	898
65°	656	643	632	624	626	647
75°	338	327	318	310	304	358
85°	81	79	75	66	64	95
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2341.9	2341.9	2341.9	2341.9	2341.9
2.5°	2349.4	2340.0	2336.2	2338.1	2349.4
5°	2332.5	2332.5	2321.2	2326.9	2326.9
7.5°	2313.7	2315.6	2304.3	2313.7	2309.9
10°	2291.1	2285.5	2278.0	2293.0	2296.8
12.5°	2270.5	2257.3	2253.5	2262.9	2264.8
15°	2227.2	2217.8	2216.0	2225.4	2227.2
17.5°	2178.4	2180.2	2172.7	2185.9	2184.0
20°	2131.4	2127.6	2123.9	2138.9	2140.8
22.5°	2078.8	2067.5	2071.2	2084.4	2088.2
25°	2014.8	2003.6	2011.1	2018.6	2022.4
27.5°	1947.2	1941.5	1939.7	1949.1	1952.8
30°	1879.5	1870.1	1870.1	1881.4	1875.8
32.5°	1796.8	1789.3	1793.1	1796.8	1798.7
35°	1721.6	1708.5	1714.1	1708.5	1710.4
37.5°	1633.3	1623.9	1622.0	1620.1	1620.1
40°	1550.6	1543.1	1535.6	1535.6	1526.2
42.5°	1460.4	1451.0	1447.2	1441.6	1436.0
45°	1366.4	1355.1	1353.3	1347.6	1347.6
47.5°	1281.8	1264.9	1263.0	1251.8	1251.8
50°	1186.0	1174.7	1167.2	1159.7	1154.0
52.5°	1099.5	1088.2	1077.0	1069.4	1063.8
55°	1001.8	988.6	986.7	977.4	977.4
57.5°	913.4	902.2	894.7	883.4	885.3
60°	821.4	810.1	806.3	796.9	796.9
62.5°	734.9	725.5	719.9	710.5	702.9
65°	656.0	642.8	631.5	624.0	625.9
67.5°	569.5	554.5	548.8	541.3	535.7
70°	486.8	477.4	468.0	458.6	458.6
72.5°	409.7	400.3	394.7	383.4	379.7
75°	338.3	327.0	317.6	310.1	304.5
77.5°	266.9	255.6	250.0	240.6	240.6
80°	199.2	191.7	186.1	182.3	174.8
82.5°	137.2	133.4	127.8	122.2	116.5
85°	80.8	78.9	75.2	65.8	63.9
87.5°	32.0	32.0	28.2	26.3	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)