

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: P295987

Luminaire Tested: **24RLN-LD5-60-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295987  
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-LD5-60-UNV-L93050-W2A1-U-5000K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5626.0 lumens  
Efficiency: N/A  
Efficacy: 124.7 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

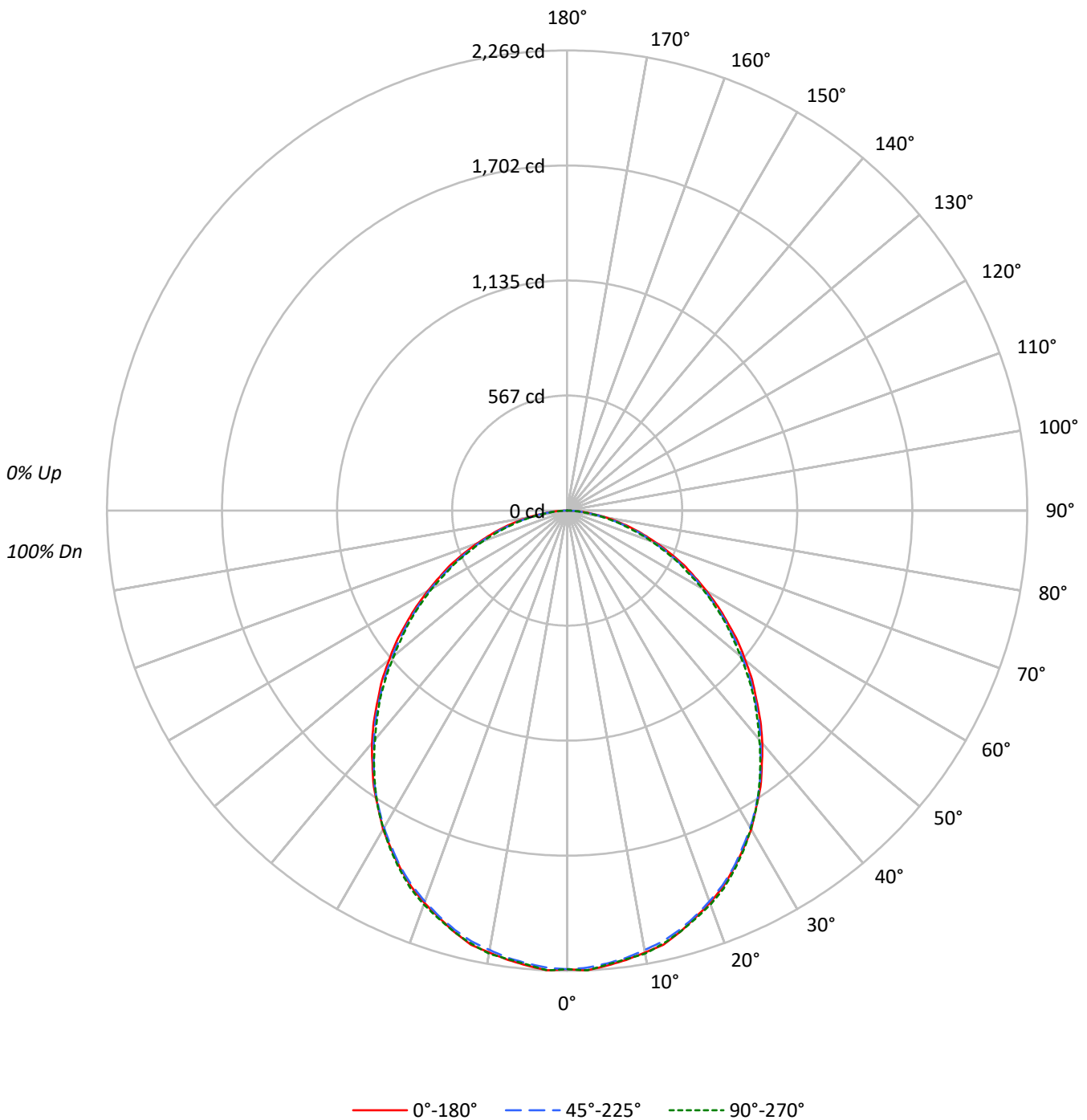
Input Watts (W): 45.105  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3043	3043	3043
5°	3042	3027	3035
10°	3023	3005	3030
15°	2996	2981	2996
20°	2947	2937	2960
25°	2889	2883	2899
30°	2820	2806	2814
35°	2731	2719	2713
40°	2630	2605	2589
45°	2511	2487	2476
50°	2397	2359	2333
55°	2269	2235	2214
60°	2134	2095	2071
65°	2017	1941	1924
70°	1849	1778	1742
75°	1698	1594	1528
80°	1491	1392	1308
85°	1204	1121	953



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.4	3.8
10°-20°	604.9	10.8
20°-30°	894.8	15.9
30°-40°	1032.7	18.4
40°-50°	1008.6	17.9
50°-60°	851.7	15.1
60°-70°	606.7	10.8
70°-80°	328.5	5.8
80°-90°	84.8	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°	1713.1	30.4
0°-40°	2745.8	48.8
0°-60°	4606.1	81.9
0°-90°	5626.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5626.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2262	2262	2262	2262	2262	
5°	2252	2252	2242	2247	2247	214
15°	2151	2142	2140	2149	2151	606
25°	1946	1935	1942	1949	1953	896
35°	1662	1650	1655	1650	1652	1038
45°	1320	1309	1307	1301	1301	1020
55°	967	955	953	944	944	867
65°	633	621	610	603	604	624
75°	327	316	307	300	294	346
85°	78	76	73	64	62	92
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2261.5	2261.5	2261.5	2261.5	2261.5
2.5°	2268.8	2259.7	2256.0	2257.9	2268.8
5°	2252.4	2252.4	2241.5	2247.0	2247.0
7.5°	2234.3	2236.1	2225.2	2234.3	2230.6
10°	2212.5	2207.0	2199.8	2214.3	2217.9
12.5°	2192.5	2179.8	2176.2	2185.3	2187.1
15°	2150.8	2141.7	2139.9	2149.0	2150.8
17.5°	2103.6	2105.4	2098.1	2110.8	2109.0
20°	2058.2	2054.6	2051.0	2065.5	2067.3
22.5°	2007.4	1996.5	2000.1	2012.8	2016.5
25°	1945.7	1934.8	1942.1	1949.3	1952.9
27.5°	1880.3	1874.9	1873.1	1882.2	1885.8
30°	1815.0	1805.9	1805.9	1816.8	1811.4
32.5°	1735.1	1727.9	1731.5	1735.1	1737.0
35°	1662.5	1649.8	1655.3	1649.8	1651.7
37.5°	1577.2	1568.2	1566.3	1564.5	1564.5
40°	1497.4	1490.1	1482.9	1482.9	1473.8
42.5°	1410.3	1401.2	1397.6	1392.1	1386.7
45°	1319.5	1308.6	1306.8	1301.4	1301.4
47.5°	1237.8	1221.5	1219.7	1208.8	1208.8
50°	1145.3	1134.4	1127.1	1119.9	1114.4
52.5°	1061.8	1050.9	1040.0	1032.7	1027.3
55°	967.4	954.7	952.9	943.8	943.8
57.5°	882.1	871.2	863.9	853.1	854.9
60°	793.2	782.3	778.6	769.6	769.6
62.5°	709.7	700.6	695.1	686.1	678.8
65°	633.4	620.7	609.8	602.6	604.4
67.5°	549.9	535.4	530.0	522.7	517.3
70°	470.1	461.0	451.9	442.9	442.9
72.5°	395.7	386.6	381.2	370.3	366.6
75°	326.7	315.8	306.7	299.5	294.0
77.5°	257.7	246.8	241.4	232.3	232.3
80°	192.4	185.1	179.7	176.1	168.8
82.5°	132.5	128.9	123.4	118.0	112.5
85°	78.0	76.2	72.6	63.5	61.7
87.5°	30.9	30.9	27.2	25.4	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)