

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: P295920

Luminaire Tested: **24RLN-LD5-60-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295920  
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-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: 6013.0 lumens  
Efficiency: N/A  
Efficacy: 137.6 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

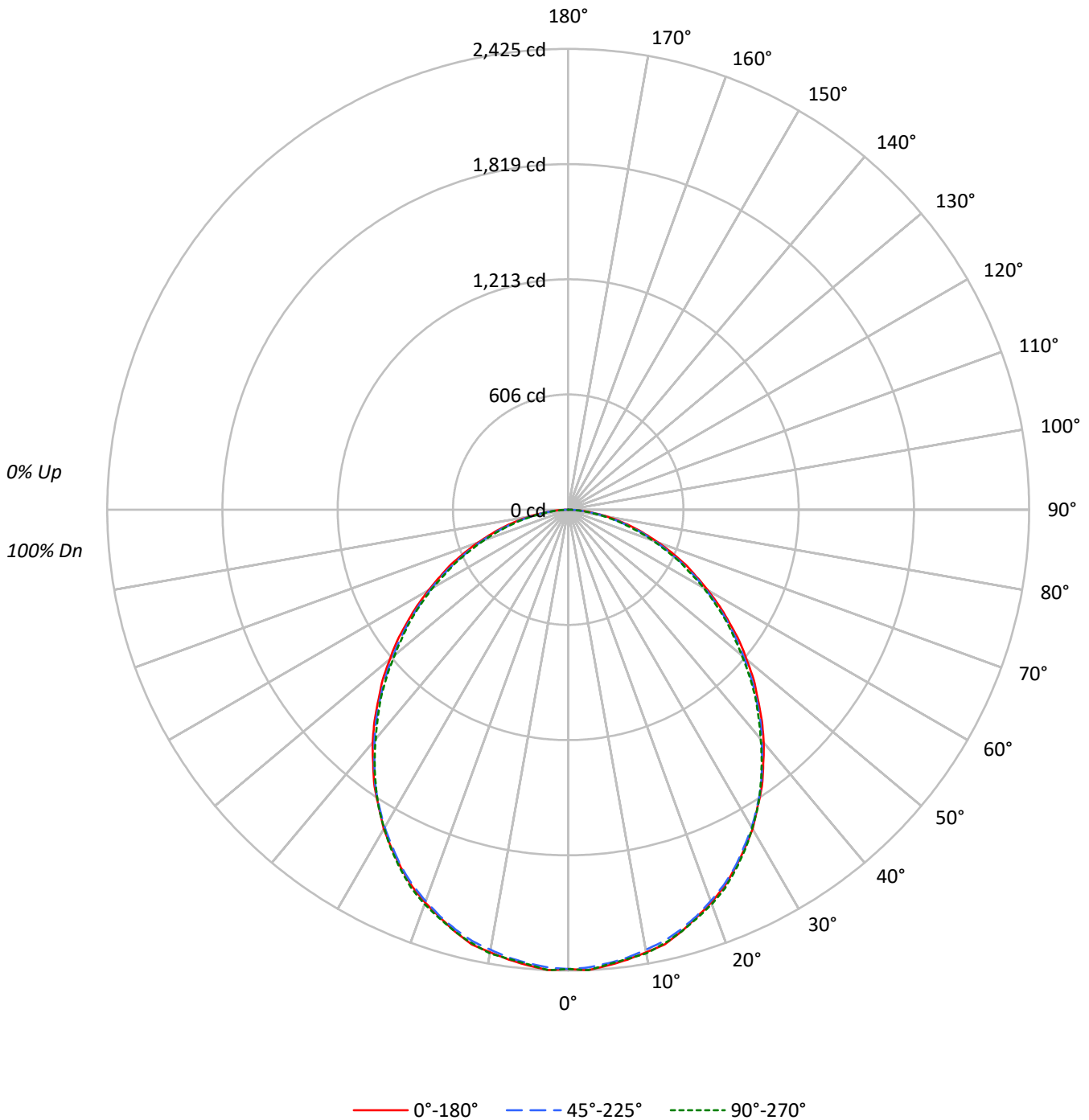
Input Watts (W): 43.71  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3252	3252	3252
5°	3252	3236	3244
10°	3231	3212	3239
15°	3202	3186	3202
20°	3150	3139	3164
25°	3087	3081	3099
30°	3014	2999	3008
35°	2919	2906	2900
40°	2811	2784	2767
45°	2684	2658	2647
50°	2562	2521	2493
55°	2425	2389	2366
60°	2281	2239	2213
65°	2155	2075	2057
70°	1976	1900	1862
75°	1815	1704	1634
80°	1593	1488	1398
85°	1288	1198	1019



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.1	3.8
10°-20°	646.5	10.8
20°-30°	956.3	15.9
30°-40°	1103.7	18.4
40°-50°	1078.0	17.9
50°-60°	910.3	15.1
60°-70°	648.4	10.8
70°-80°	351.1	5.8
80°-90°	90.6	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°	1830.9	30.4
0°-40°	2934.7	48.8
0°-60°	4923.0	81.9
0°-90°	6013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6013.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2417	2417	2417	2417	2417	
5°	2407	2407	2396	2402	2402	228
15°	2299	2289	2287	2297	2299	648
25°	2080	2068	2076	2083	2087	957
35°	1777	1763	1769	1763	1765	1109
45°	1410	1399	1397	1391	1391	1091
55°	1034	1020	1018	1009	1009	927
65°	677	663	652	644	646	667
75°	349	338	328	320	314	370
85°	83	82	78	68	66	98
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2417.1	2417.1	2417.1	2417.1	2417.1
2.5°	2424.8	2415.1	2411.2	2413.2	2424.8
5°	2407.4	2407.4	2395.7	2401.5	2401.5
7.5°	2388.0	2389.9	2378.3	2388.0	2384.1
10°	2364.7	2358.9	2351.1	2366.6	2370.5
12.5°	2343.3	2329.8	2325.9	2335.6	2337.5
15°	2298.7	2289.0	2287.1	2296.8	2298.7
17.5°	2248.3	2250.2	2242.5	2256.0	2254.1
20°	2199.8	2195.9	2192.0	2207.6	2209.5
22.5°	2145.5	2133.8	2137.7	2151.3	2155.2
25°	2079.5	2067.9	2075.6	2083.4	2087.3
27.5°	2009.7	2003.9	2001.9	2011.6	2015.5
30°	1939.9	1930.2	1930.2	1941.8	1936.0
32.5°	1854.5	1846.7	1850.6	1854.5	1856.4
35°	1776.9	1763.3	1769.1	1763.3	1765.3
37.5°	1685.7	1676.0	1674.1	1672.2	1672.2
40°	1600.4	1592.6	1584.9	1584.9	1575.2
42.5°	1507.3	1497.6	1493.7	1487.9	1482.0
45°	1410.3	1398.6	1396.7	1390.9	1390.9
47.5°	1323.0	1305.5	1303.6	1291.9	1291.9
50°	1224.0	1212.4	1204.6	1196.9	1191.1
52.5°	1134.8	1123.2	1111.5	1103.8	1098.0
55°	1033.9	1020.4	1018.4	1008.7	1008.7
57.5°	942.8	931.1	923.4	911.7	913.7
60°	847.7	836.1	832.2	822.5	822.5
62.5°	758.5	748.8	743.0	733.3	725.5
65°	677.0	663.4	651.8	644.0	646.0
67.5°	587.8	572.3	566.4	558.7	552.9
70°	502.4	492.7	483.0	473.3	473.3
72.5°	422.9	413.2	407.4	395.7	391.8
75°	349.2	337.5	327.8	320.1	314.3
77.5°	275.5	263.8	258.0	248.3	248.3
80°	205.6	197.9	192.0	188.2	180.4
82.5°	141.6	137.7	131.9	126.1	120.3
85°	83.4	81.5	77.6	67.9	66.0
87.5°	33.0	33.0	29.1	27.2	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)