

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: P295847

Luminaire Tested: **24RLN-LD5-60-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295847  
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-L83050-W2A1-U-5000K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6385.0 lumens  
Efficiency: N/A  
Efficacy: 140.7 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

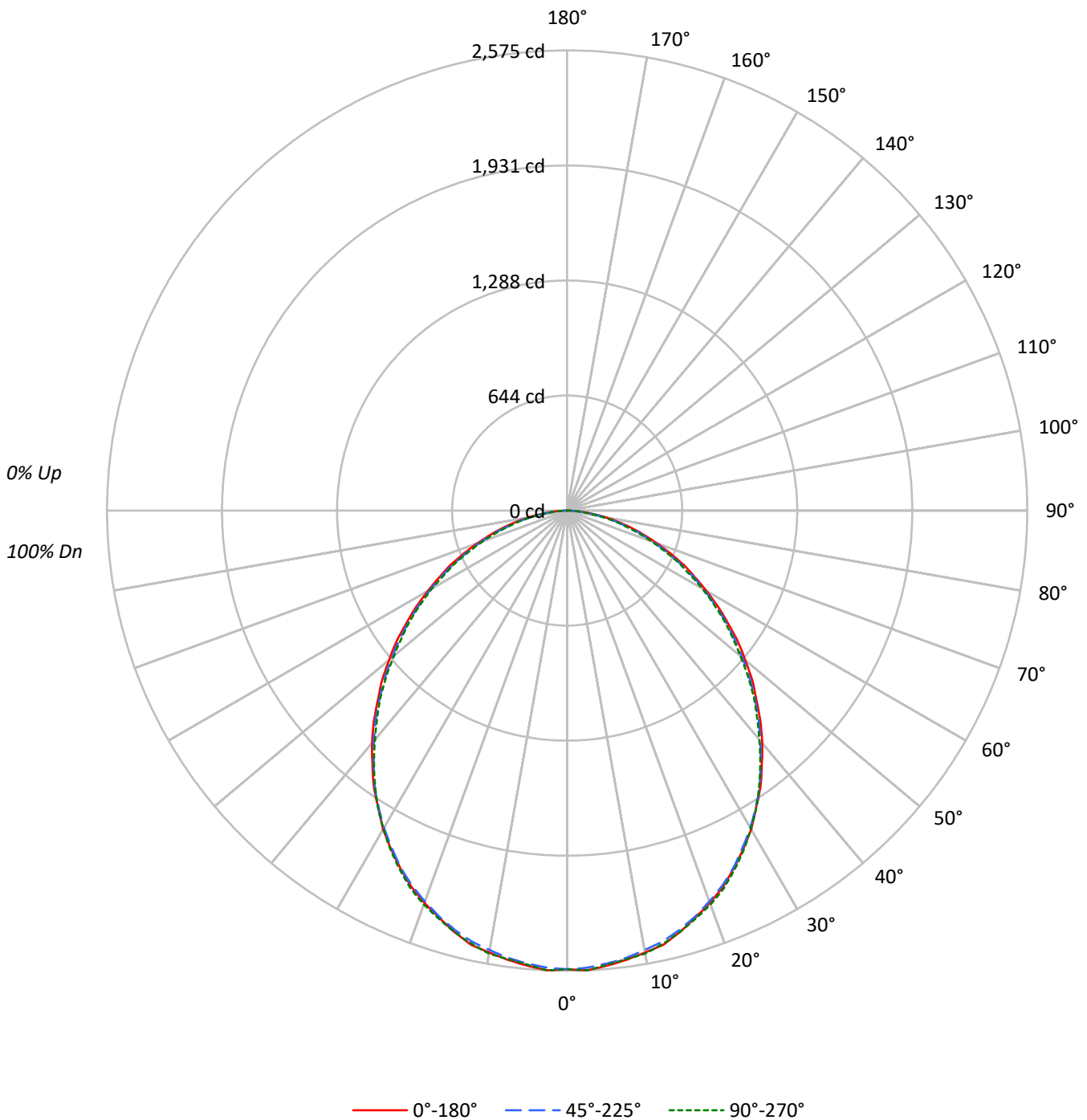
Input Watts (W): 45.384  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3453	3453	3453
5°	3453	3436	3444
10°	3431	3411	3439
15°	3400	3383	3400
20°	3345	3333	3359
25°	3278	3272	3290
30°	3200	3184	3194
35°	3099	3086	3079
40°	2985	2956	2938
45°	2849	2822	2810
50°	2721	2678	2647
55°	2575	2537	2513
60°	2422	2378	2350
65°	2289	2203	2184
70°	2099	2018	1977
75°	1928	1810	1735
80°	1691	1580	1485
85°	1368	1272	1081



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.2	3.8
10°-20°	686.5	10.8
20°-30°	1015.5	15.9
30°-40°	1172.0	18.4
40°-50°	1144.7	17.9
50°-60°	966.6	15.1
60°-70°	688.5	10.8
70°-80°	372.8	5.8
80°-90°	96.2	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°	1944.2	30.4
0°-40°	3116.2	48.8
0°-60°	5227.5	81.9
0°-90°	6385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6385.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2567	2567	2567	2567	2567	
5°	2556	2556	2544	2550	2550	243
15°	2441	2431	2429	2439	2441	688
25°	2208	2196	2204	2212	2216	1017
35°	1887	1872	1879	1872	1874	1178
45°	1498	1485	1483	1477	1477	1158
55°	1098	1084	1081	1071	1071	984
65°	719	704	692	684	686	709
75°	371	358	348	340	334	392
85°	89	86	82	72	70	104
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2566.6	2566.6	2566.6	2566.6	2566.6
2.5°	2574.8	2564.5	2560.4	2562.5	2574.8
5°	2556.3	2556.3	2543.9	2550.1	2550.1
7.5°	2535.7	2537.8	2525.4	2535.7	2531.6
10°	2511.0	2504.8	2496.6	2513.0	2517.2
12.5°	2488.3	2473.9	2469.8	2480.1	2482.1
15°	2440.9	2430.6	2428.6	2438.9	2440.9
17.5°	2387.4	2389.4	2381.2	2395.6	2393.6
20°	2335.9	2331.8	2327.6	2344.1	2346.2
22.5°	2278.2	2265.8	2270.0	2284.4	2288.5
25°	2208.2	2195.8	2204.1	2212.3	2216.4
27.5°	2134.0	2127.8	2125.8	2136.1	2140.2
30°	2059.9	2049.6	2049.6	2061.9	2055.7
32.5°	1969.2	1961.0	1965.1	1969.2	1971.3
35°	1886.8	1872.4	1878.6	1872.4	1874.5
37.5°	1790.0	1779.7	1777.7	1775.6	1775.6
40°	1699.4	1691.1	1682.9	1682.9	1672.6
42.5°	1600.5	1590.2	1586.1	1579.9	1573.7
45°	1497.5	1485.2	1483.1	1476.9	1476.9
47.5°	1404.8	1386.3	1384.2	1371.9	1371.9
50°	1299.8	1287.4	1279.2	1270.9	1264.8
52.5°	1205.0	1192.7	1180.3	1172.1	1165.9
55°	1097.9	1083.5	1081.4	1071.1	1071.1
57.5°	1001.1	988.7	980.5	968.1	970.2
60°	900.2	887.8	883.7	873.4	873.4
62.5°	805.4	795.1	788.9	778.6	770.4
65°	718.9	704.5	692.1	683.9	685.9
67.5°	624.1	607.7	601.5	593.2	587.1
70°	533.5	523.2	512.9	502.6	502.6
72.5°	449.0	438.8	432.6	420.2	416.1
75°	370.8	358.4	348.1	339.9	333.7
77.5°	292.5	280.1	274.0	263.7	263.7
80°	218.3	210.1	203.9	199.8	191.6
82.5°	150.4	146.3	140.1	133.9	127.7
85°	88.6	86.5	82.4	72.1	70.0
87.5°	35.0	35.0	30.9	28.8	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)