

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: P295853

Luminaire Tested: **24RLN-LD5-74-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295853
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-LD5-74-UNV-L83050-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7025.0 lumens
Efficiency: N/A
Efficacy: 127.8 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

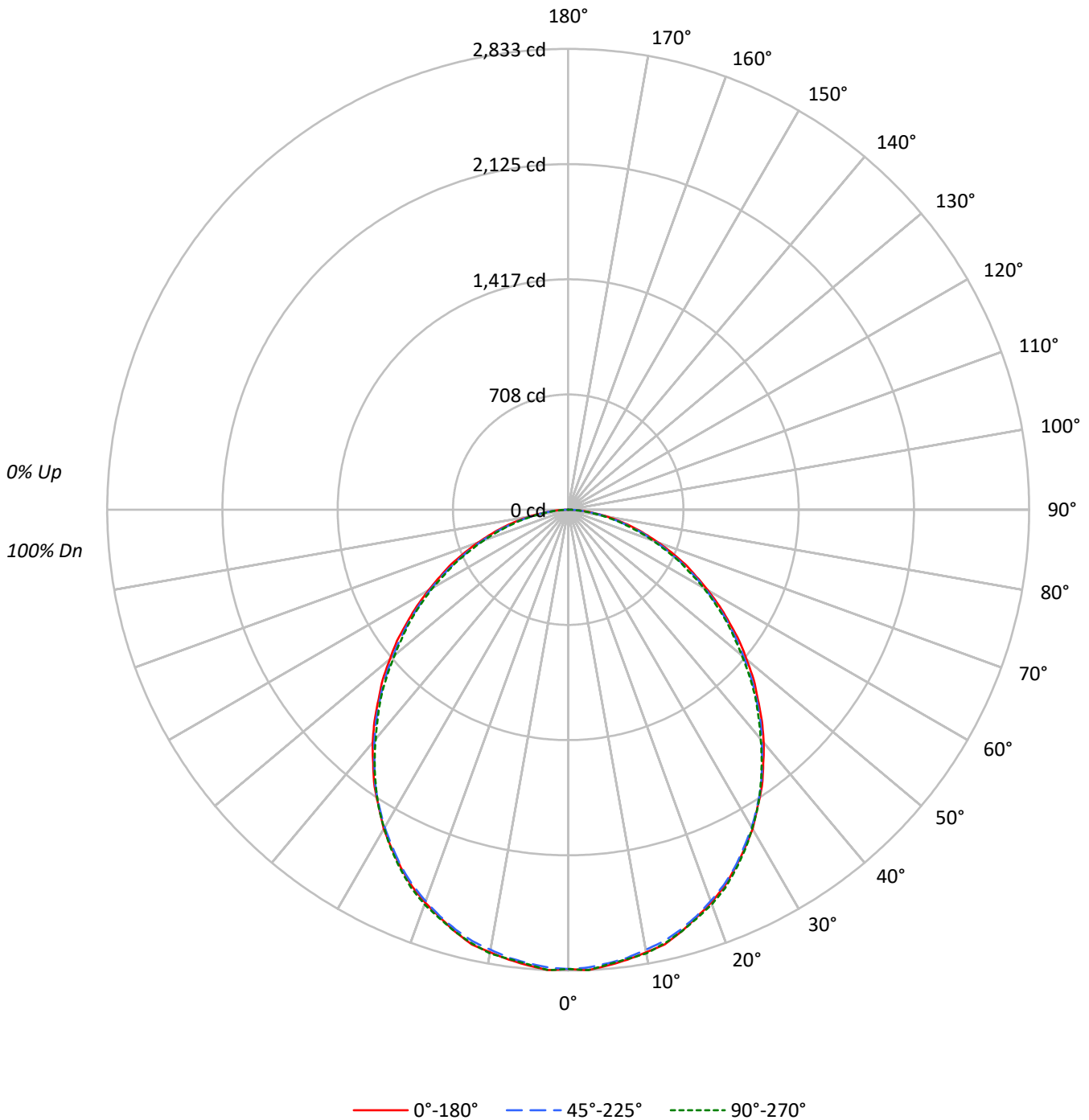
Input Watts (W): 54.963
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3800	3800	3800
5°	3799	3780	3789
10°	3775	3753	3784
15°	3741	3722	3741
20°	3680	3667	3696
25°	3607	3600	3620
30°	3521	3503	3514
35°	3410	3395	3388
40°	3284	3252	3232
45°	3135	3105	3092
50°	2993	2946	2913
55°	2834	2791	2765
60°	2665	2616	2586
65°	2518	2424	2403
70°	2309	2220	2175
75°	2120	1991	1908
80°	1861	1739	1633
85°	1505	1400	1190



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.4	3.8
10°-20°	755.3	10.8
20°-30°	1117.3	15.9
30°-40°	1289.5	18.4
40°-50°	1259.4	17.9
50°-60°	1063.5	15.1
60°-70°	757.5	10.8
70°-80°	410.1	5.8
80°-90°	105.8	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°	2139.1	30.4
0°-40°	3428.6	48.8
0°-60°	5751.5	81.9
0°-90°	7025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2824	2824	2824	2824	2824	
5°	2812	2812	2799	2806	2806	267
15°	2686	2674	2672	2683	2686	756
25°	2430	2416	2425	2434	2439	1119
35°	2076	2060	2067	2060	2062	1296
45°	1648	1634	1632	1625	1625	1274
55°	1208	1192	1190	1178	1178	1083
65°	791	775	762	752	755	780
75°	408	394	383	374	367	432
85°	98	95	91	79	77	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2823.9	2823.9	2823.9	2823.9	2823.9
2.5°	2832.9	2821.6	2817.1	2819.3	2832.9
5°	2812.5	2812.5	2798.9	2805.7	2805.7
7.5°	2789.9	2792.1	2778.5	2789.9	2785.3
10°	2762.7	2755.9	2746.8	2764.9	2769.5
12.5°	2737.7	2721.9	2717.3	2728.7	2730.9
15°	2685.6	2674.3	2672.0	2683.3	2685.6
17.5°	2626.7	2628.9	2619.9	2635.7	2633.5
20°	2570.0	2565.5	2561.0	2579.1	2581.4
22.5°	2506.6	2493.0	2497.5	2513.4	2517.9
25°	2429.5	2415.9	2425.0	2434.0	2438.6
27.5°	2347.9	2341.1	2338.9	2350.2	2354.7
30°	2266.3	2255.0	2255.0	2268.6	2261.8
32.5°	2166.6	2157.5	2162.1	2166.6	2168.9
35°	2076.0	2060.1	2066.9	2060.1	2062.4
37.5°	1969.4	1958.1	1955.8	1953.6	1953.6
40°	1869.7	1860.7	1851.6	1851.6	1840.3
42.5°	1760.9	1749.6	1745.1	1738.3	1731.5
45°	1647.6	1634.0	1631.8	1625.0	1625.0
47.5°	1545.6	1525.2	1523.0	1509.4	1509.4
50°	1430.1	1416.5	1407.4	1398.3	1391.5
52.5°	1325.8	1312.2	1298.6	1289.5	1282.7
55°	1208.0	1192.1	1189.8	1178.5	1178.5
57.5°	1101.4	1087.8	1078.8	1065.2	1067.4
60°	990.4	976.8	972.3	960.9	960.9
62.5°	886.1	874.8	868.0	856.7	847.6
65°	790.9	775.1	761.5	752.4	754.7
67.5°	686.7	668.6	661.8	652.7	645.9
70°	587.0	575.6	564.3	553.0	553.0
72.5°	494.1	482.7	475.9	462.3	457.8
75°	407.9	394.3	383.0	373.9	367.1
77.5°	321.8	308.2	301.4	290.1	290.1
80°	240.2	231.2	224.4	219.8	210.8
82.5°	165.4	160.9	154.1	147.3	140.5
85°	97.5	95.2	90.7	79.3	77.1
87.5°	38.5	38.5	34.0	31.7	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)