

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: P295848

Luminaire Tested: **24RLN-LD5-67-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295848
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-LD5-67-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: 6329.0 lumens
Efficiency: N/A
Efficacy: 130.4 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

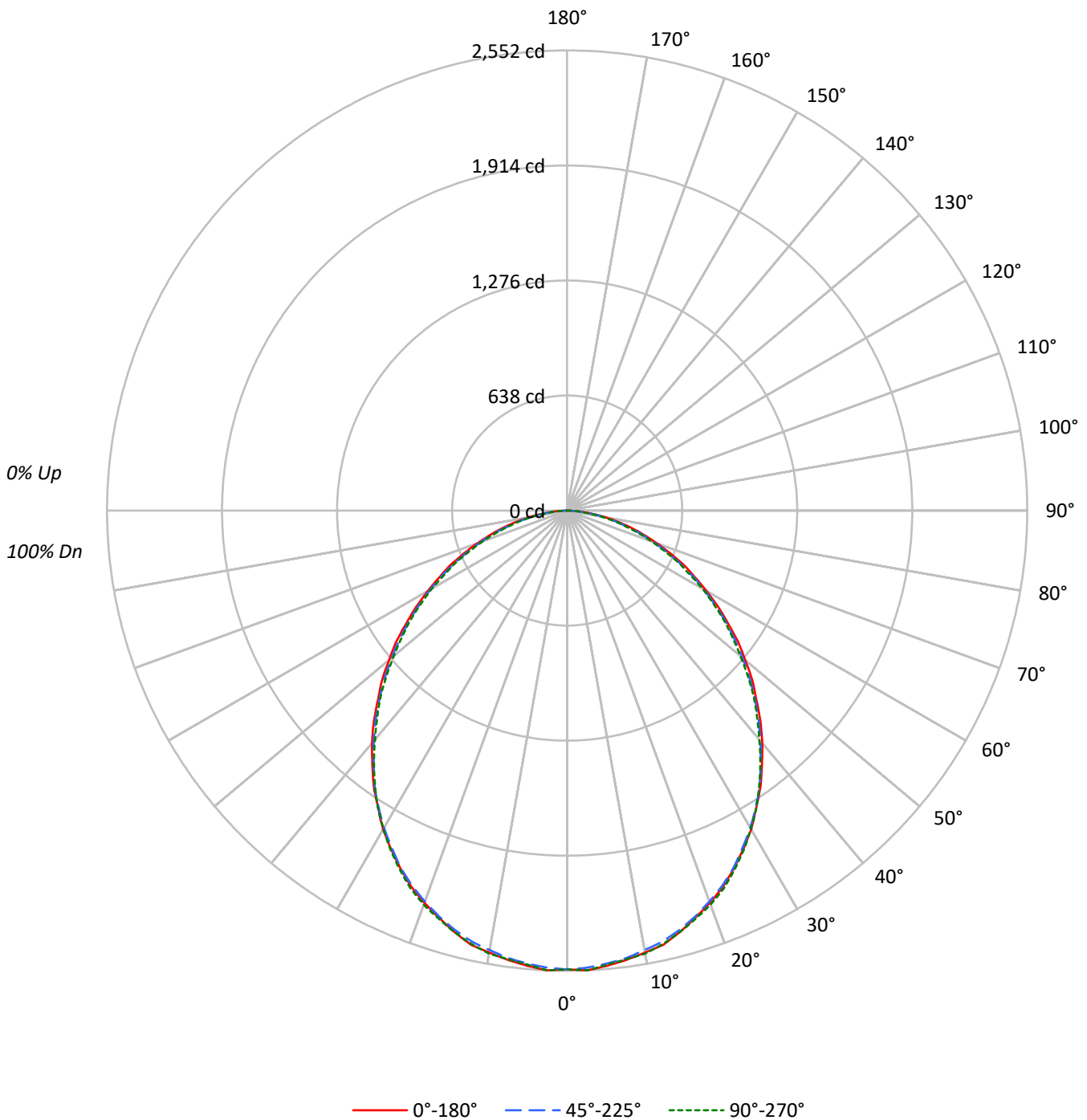
Input Watts (W): 48.546
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3423	3423	3423
5°	3422	3406	3414
10°	3400	3381	3409
15°	3370	3353	3370
20°	3315	3304	3330
25°	3249	3243	3262
30°	3172	3156	3166
35°	3072	3059	3052
40°	2959	2930	2912
45°	2825	2797	2786
50°	2697	2654	2624
55°	2553	2514	2491
60°	2401	2357	2330
65°	2269	2184	2165
70°	2080	2000	1960
75°	1910	1794	1720
80°	1677	1566	1471
85°	1355	1261	1071



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.0	3.8
10°-20°	680.5	10.8
20°-30°	1006.6	15.9
30°-40°	1161.7	18.4
40°-50°	1134.7	17.9
50°-60°	958.1	15.1
60°-70°	682.5	10.8
70°-80°	369.5	5.8
80°-90°	95.3	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°	1927.2	30.4
0°-40°	3088.9	48.8
0°-60°	5181.7	81.9
0°-90°	6329.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6329.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2544	2544	2544	2544	2544	
5°	2534	2534	2522	2528	2528	240
15°	2420	2409	2407	2418	2420	682
25°	2189	2177	2185	2193	2197	1008
35°	1870	1856	1862	1856	1858	1167
45°	1484	1472	1470	1464	1464	1148
55°	1088	1074	1072	1062	1062	976
65°	713	698	686	678	680	703
75°	368	355	345	337	331	389
85°	88	86	82	72	69	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2544.1	2544.1	2544.1	2544.1	2544.1
2.5°	2552.2	2542.0	2538.0	2540.0	2552.2
5°	2533.9	2533.9	2521.6	2527.7	2527.7
7.5°	2513.5	2515.5	2503.2	2513.5	2509.4
10°	2488.9	2482.8	2474.7	2491.0	2495.1
12.5°	2466.5	2452.2	2448.1	2458.3	2460.4
15°	2419.5	2409.3	2407.3	2417.5	2419.5
17.5°	2366.4	2368.5	2360.3	2374.6	2372.6
20°	2315.4	2311.3	2307.2	2323.6	2325.6
22.5°	2258.2	2246.0	2250.1	2264.4	2268.4
25°	2188.8	2176.6	2184.7	2192.9	2197.0
27.5°	2115.3	2109.2	2107.1	2117.3	2121.4
30°	2041.8	2031.6	2031.6	2043.8	2037.7
32.5°	1952.0	1943.8	1947.9	1952.0	1954.0
35°	1870.3	1856.0	1862.1	1856.0	1858.0
37.5°	1774.3	1764.1	1762.1	1760.0	1760.0
40°	1684.5	1676.3	1668.1	1668.1	1657.9
42.5°	1586.5	1576.3	1572.2	1566.1	1559.9
45°	1484.4	1472.1	1470.1	1464.0	1464.0
47.5°	1392.5	1374.1	1372.1	1359.8	1359.8
50°	1288.4	1276.1	1268.0	1259.8	1253.7
52.5°	1194.5	1182.2	1169.9	1161.8	1155.7
55°	1088.3	1074.0	1071.9	1061.7	1061.7
57.5°	992.3	980.1	971.9	959.6	961.7
60°	892.3	880.0	875.9	865.7	865.7
62.5°	798.3	788.1	782.0	771.8	763.6
65°	712.6	698.3	686.0	677.9	679.9
67.5°	618.7	602.3	596.2	588.0	581.9
70°	528.8	518.6	508.4	498.2	498.2
72.5°	445.1	434.9	428.8	416.5	412.4
75°	367.5	355.3	345.1	336.9	330.8
77.5°	289.9	277.7	271.6	261.3	261.3
80°	216.4	208.3	202.1	198.1	189.9
82.5°	149.1	145.0	138.8	132.7	126.6
85°	87.8	85.8	81.7	71.5	69.4
87.5°	34.7	34.7	30.6	28.6	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)