

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: P295931

Luminaire Tested: **24RLN-LD5-67-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295931
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-L82765-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: 6896.0 lumens
Efficiency: N/A
Efficacy: 138.6 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

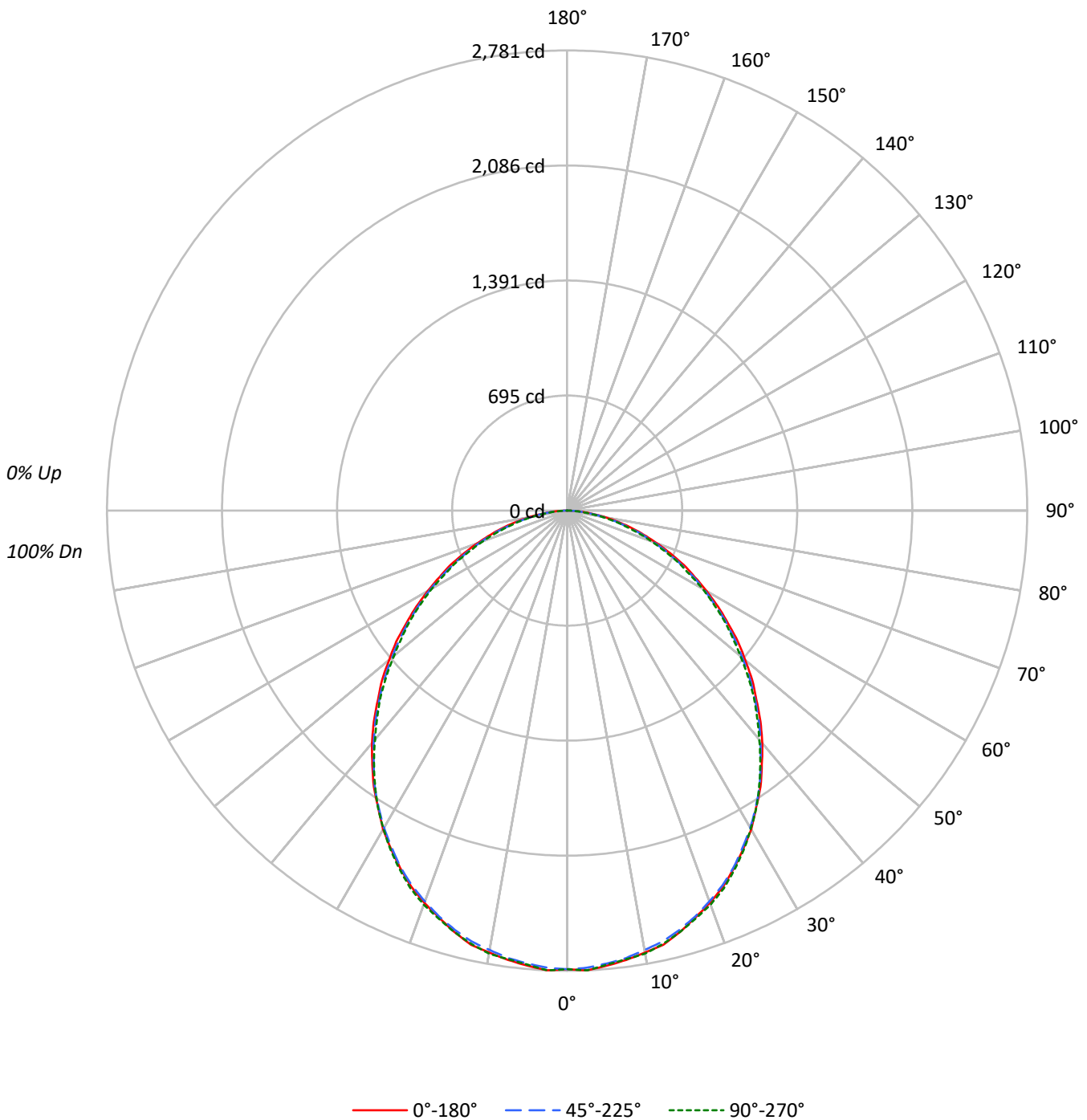
Input Watts (W): 49.755
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3730	3730	3730
5°	3729	3711	3720
10°	3705	3684	3714
15°	3672	3654	3672
20°	3612	3600	3628
25°	3541	3534	3554
30°	3456	3439	3450
35°	3347	3333	3325
40°	3224	3192	3173
45°	3078	3048	3035
50°	2938	2892	2859
55°	2782	2740	2714
60°	2616	2568	2538
65°	2472	2380	2358
70°	2267	2179	2135
75°	2082	1955	1874
80°	1827	1706	1603
85°	1477	1374	1167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.6	3.8
10°-20°	741.5	10.8
20°-30°	1096.8	15.9
30°-40°	1265.8	18.4
40°-50°	1236.3	17.9
50°-60°	1044.0	15.1
60°-70°	743.6	10.8
70°-80°	402.6	5.8
80°-90°	103.9	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°	2099.8	30.4
0°-40°	3365.6	48.8
0°-60°	5645.9	81.9
0°-90°	6896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6896.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2772	2772	2772	2772	2772	
5°	2761	2761	2748	2754	2754	262
15°	2636	2625	2623	2634	2636	743
25°	2385	2372	2380	2389	2394	1098
35°	2038	2022	2029	2022	2024	1272
45°	1617	1604	1602	1595	1595	1251
55°	1186	1170	1168	1157	1157	1063
65°	776	761	748	739	741	765
75°	400	387	376	367	360	424
85°	96	93	89	78	76	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2772.0	2772.0	2772.0	2772.0	2772.0
2.5°	2780.9	2769.8	2765.3	2767.5	2780.9
5°	2760.9	2760.9	2747.5	2754.2	2754.2
7.5°	2738.6	2740.8	2727.5	2738.6	2734.2
10°	2711.9	2705.3	2696.4	2714.2	2718.6
12.5°	2687.5	2671.9	2667.4	2678.6	2680.8
15°	2636.3	2625.2	2622.9	2634.1	2636.3
17.5°	2578.4	2580.7	2571.8	2587.3	2585.1
20°	2522.8	2518.4	2513.9	2531.7	2534.0
22.5°	2460.5	2447.2	2451.6	2467.2	2471.7
25°	2384.9	2371.5	2380.4	2389.3	2393.8
27.5°	2304.8	2298.1	2295.9	2307.0	2311.5
30°	2224.7	2213.6	2213.6	2226.9	2220.3
32.5°	2126.8	2117.9	2122.4	2126.8	2129.1
35°	2037.8	2022.3	2028.9	2022.3	2024.5
37.5°	1933.3	1922.2	1919.9	1917.7	1917.7
40°	1835.4	1826.5	1817.6	1817.6	1806.5
42.5°	1728.6	1717.5	1713.0	1706.4	1699.7
45°	1617.4	1604.0	1601.8	1595.1	1595.1
47.5°	1517.3	1497.2	1495.0	1481.7	1481.7
50°	1403.8	1390.4	1381.5	1372.6	1366.0
52.5°	1301.5	1288.1	1274.8	1265.9	1259.2
55°	1185.8	1170.2	1168.0	1156.9	1156.9
57.5°	1081.2	1067.9	1059.0	1045.6	1047.8
60°	972.2	958.9	954.4	943.3	943.3
62.5°	869.9	858.7	852.1	840.9	832.0
65°	776.4	760.9	747.5	738.6	740.8
67.5°	674.1	656.3	649.6	640.7	634.0
70°	576.2	565.1	554.0	542.8	542.8
72.5°	485.0	473.9	467.2	453.8	449.4
75°	400.4	387.1	376.0	367.1	360.4
77.5°	315.9	302.6	295.9	284.8	284.8
80°	235.8	226.9	220.2	215.8	206.9
82.5°	162.4	158.0	151.3	144.6	137.9
85°	95.7	93.4	89.0	77.9	75.6
87.5°	37.8	37.8	33.4	31.1	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)