

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: P295930

Luminaire Tested: **24RLN-LD5-67-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295930
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-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6803.0 lumens
Efficiency: N/A
Efficacy: 137.2 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

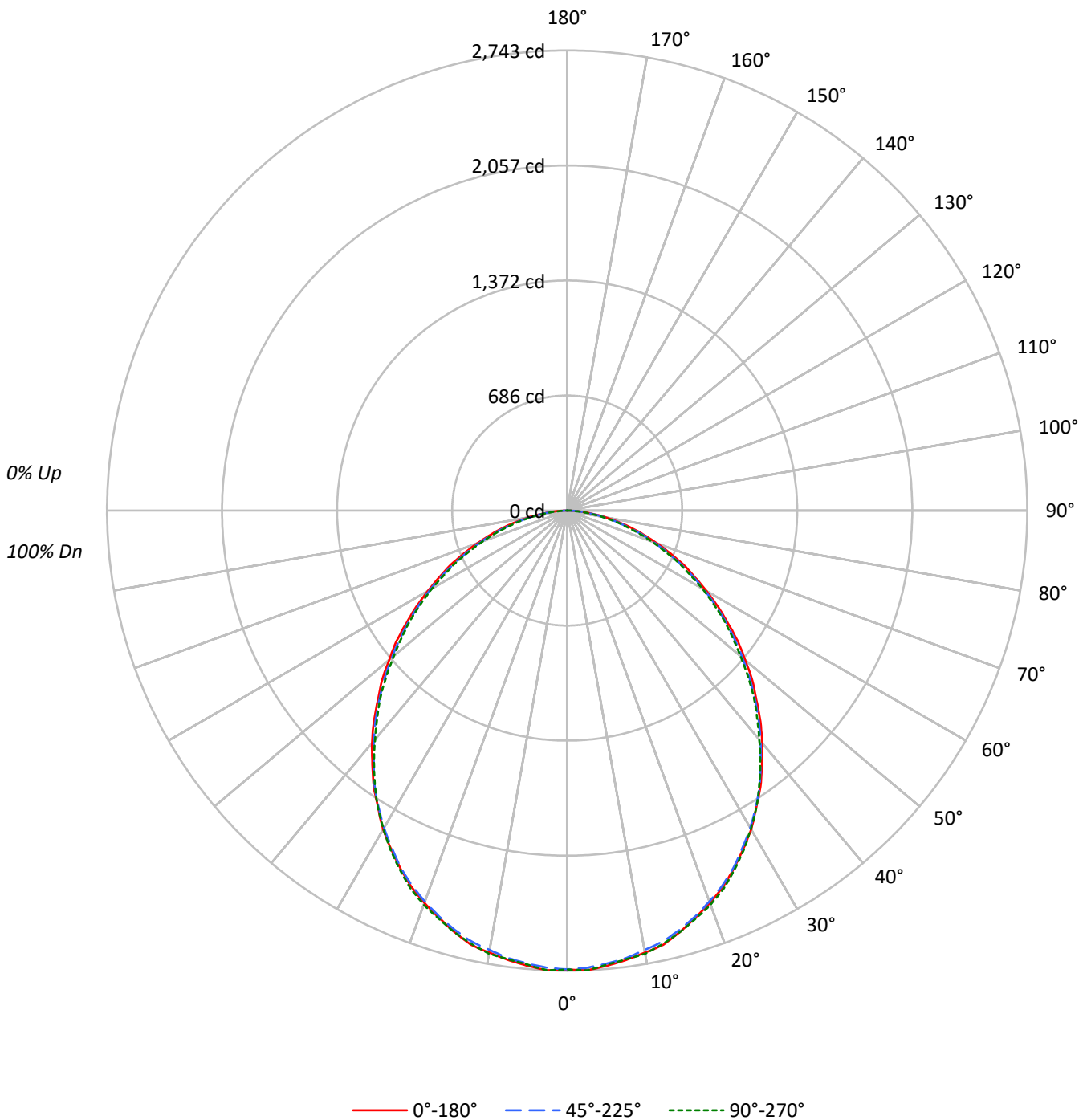
Input Watts (W): 49.569
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3679	3679	3679
5°	3679	3661	3670
10°	3655	3634	3664
15°	3623	3604	3623
20°	3564	3551	3579
25°	3493	3486	3506
30°	3410	3393	3403
35°	3302	3288	3280
40°	3180	3149	3130
45°	3036	3007	2994
50°	2899	2853	2821
55°	2744	2703	2677
60°	2581	2534	2504
65°	2439	2348	2327
70°	2236	2150	2107
75°	2053	1928	1848
80°	1802	1684	1581
85°	1457	1355	1152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.0	3.8
10°-20°	731.5	10.8
20°-30°	1082.0	15.9
30°-40°	1248.7	18.4
40°-50°	1219.6	17.9
50°-60°	1029.9	15.1
60°-70°	733.6	10.8
70°-80°	397.2	5.8
80°-90°	102.5	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°	2071.5	30.4
0°-40°	3320.2	48.8
0°-60°	5569.7	81.9
0°-90°	6803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6803.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2735	2735	2735	2735	2735	
5°	2724	2724	2710	2717	2717	258
15°	2601	2590	2588	2598	2601	733
25°	2353	2340	2348	2357	2362	1083
35°	2010	1995	2002	1995	1997	1255
45°	1596	1582	1580	1574	1574	1234
55°	1170	1154	1152	1141	1141	1049
65°	766	751	737	729	731	755
75°	395	382	371	362	356	418
85°	94	92	88	77	75	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2734.6	2734.6	2734.6	2734.6	2734.6
2.5°	2743.4	2732.4	2728.0	2730.2	2743.4
5°	2723.6	2723.6	2710.5	2717.1	2717.1
7.5°	2701.7	2703.9	2690.7	2701.7	2697.3
10°	2675.4	2668.8	2660.0	2677.5	2681.9
12.5°	2651.2	2635.9	2631.5	2642.4	2644.6
15°	2600.7	2589.8	2587.6	2598.5	2600.7
17.5°	2543.7	2545.9	2537.1	2552.5	2550.3
20°	2488.8	2484.4	2480.0	2497.6	2499.8
22.5°	2427.4	2414.2	2418.6	2433.9	2438.3
25°	2352.7	2339.6	2348.3	2357.1	2361.5
27.5°	2273.7	2267.1	2264.9	2275.9	2280.3
30°	2194.7	2183.7	2183.7	2196.9	2190.3
32.5°	2098.1	2089.4	2093.8	2098.1	2100.3
35°	2010.4	1995.0	2001.6	1995.0	1997.2
37.5°	1907.2	1896.2	1894.0	1891.8	1891.8
40°	1810.6	1801.9	1793.1	1793.1	1782.1
42.5°	1705.3	1694.3	1689.9	1683.3	1676.8
45°	1595.6	1582.4	1580.2	1573.6	1573.6
47.5°	1496.8	1477.0	1474.8	1461.7	1461.7
50°	1384.9	1371.7	1362.9	1354.1	1347.6
52.5°	1283.9	1270.7	1257.6	1248.8	1242.2
55°	1169.8	1154.4	1152.2	1141.3	1141.3
57.5°	1066.6	1053.5	1044.7	1031.5	1033.7
60°	959.1	945.9	941.5	930.6	930.6
62.5°	858.1	847.2	840.6	829.6	820.8
65°	766.0	750.6	737.4	728.6	730.8
67.5°	665.0	647.4	640.9	632.1	625.5
70°	568.4	557.5	546.5	535.5	535.5
72.5°	478.4	467.5	460.9	447.7	443.3
75°	395.0	381.9	370.9	362.1	355.5
77.5°	311.6	298.5	291.9	280.9	280.9
80°	232.6	223.9	217.3	212.9	204.1
82.5°	160.2	155.8	149.2	142.7	136.1
85°	94.4	92.2	87.8	76.8	74.6
87.5°	37.3	37.3	32.9	30.7	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)