

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: P296090

Luminaire Tested: **24RLN-LD5-80-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296090
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-LD5-80-UNV-L92765-W2A1-U-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7568.0 lumens
Efficiency: N/A
Efficacy: 121.3 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

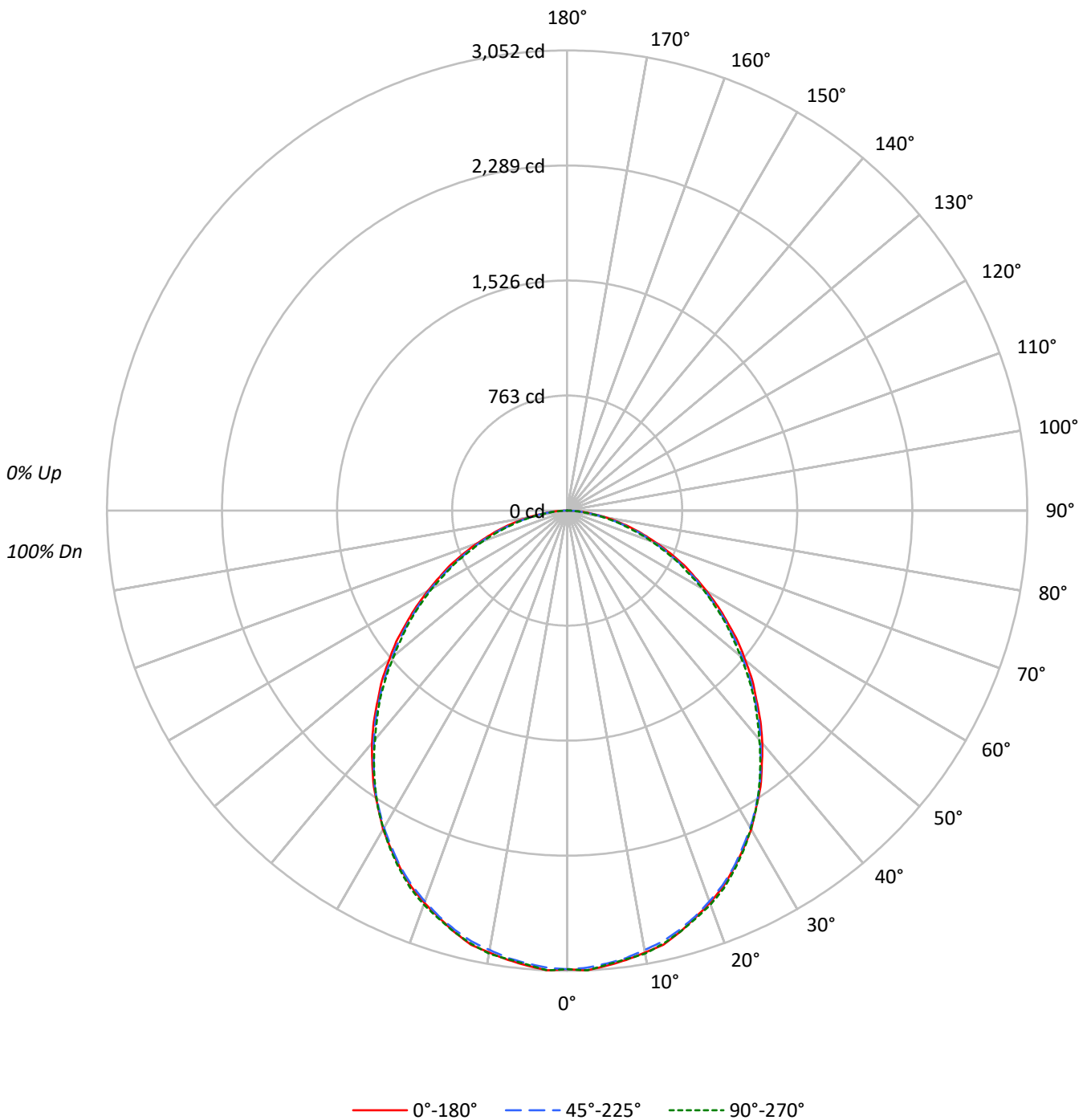
Input Watts (W): 62.403
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4093	4093	4093
5°	4092	4073	4082
10°	4066	4043	4076
15°	4030	4010	4030
20°	3964	3950	3982
25°	3886	3878	3900
30°	3793	3774	3786
35°	3673	3657	3649
40°	3538	3504	3482
45°	3377	3345	3331
50°	3225	3174	3138
55°	3053	3007	2978
60°	2871	2819	2786
65°	2713	2612	2588
70°	2488	2391	2343
75°	2285	2145	2056
80°	2005	1873	1760
85°	1621	1508	1281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.0	3.8
10°-20°	813.7	10.8
20°-30°	1203.7	15.9
30°-40°	1389.2	18.4
40°-50°	1356.8	17.9
50°-60°	1145.7	15.1
60°-70°	816.1	10.8
70°-80°	441.8	5.8
80°-90°	114.0	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°	2304.4	30.4
0°-40°	3693.6	48.8
0°-60°	6196.1	81.9
0°-90°	7568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7568.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3042	3042	3042	3042	3042	
5°	3030	3030	3015	3023	3023	288
15°	2893	2881	2878	2891	2893	815
25°	2617	2603	2612	2622	2627	1205
35°	2236	2219	2227	2219	2222	1396
45°	1775	1760	1758	1751	1751	1373
55°	1301	1284	1282	1270	1270	1167
65°	852	835	820	811	813	840
75°	440	425	413	403	396	465
85°	105	102	98	86	83	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3042.1	3042.1	3042.1	3042.1	3042.1
2.5°	3051.9	3039.7	3034.8	3037.2	3051.9
5°	3029.9	3029.9	3015.3	3022.6	3022.6
7.5°	3005.5	3007.9	2993.3	3005.5	3000.6
10°	2976.2	2968.9	2959.1	2978.6	2983.5
12.5°	2949.3	2932.3	2927.4	2939.6	2942.0
15°	2893.2	2881.0	2878.5	2890.7	2893.2
17.5°	2829.7	2832.2	2822.4	2839.5	2837.0
20°	2768.7	2763.8	2758.9	2778.4	2780.9
22.5°	2700.3	2685.7	2690.5	2707.6	2712.5
25°	2617.3	2602.6	2612.4	2622.2	2627.1
27.5°	2529.4	2522.1	2519.6	2531.8	2536.7
30°	2441.5	2429.3	2429.3	2444.0	2436.6
32.5°	2334.1	2324.3	2329.2	2334.1	2336.5
35°	2236.4	2219.3	2226.7	2219.3	2221.8
37.5°	2121.7	2109.5	2107.0	2104.6	2104.6
40°	2014.2	2004.5	1994.7	1994.7	1982.5
42.5°	1897.1	1884.8	1880.0	1872.6	1865.3
45°	1775.0	1760.3	1757.9	1750.6	1750.6
47.5°	1665.1	1643.1	1640.7	1626.0	1626.0
50°	1540.6	1525.9	1516.2	1506.4	1499.1
52.5°	1428.3	1413.6	1399.0	1389.2	1381.9
55°	1301.3	1284.2	1281.8	1269.6	1269.6
57.5°	1186.6	1171.9	1162.2	1147.5	1150.0
60°	1066.9	1052.3	1047.4	1035.2	1035.2
62.5°	954.6	942.4	935.1	922.9	913.1
65°	852.1	835.0	820.3	810.6	813.0
67.5°	739.8	720.2	712.9	703.2	695.8
70°	632.4	620.1	607.9	595.7	595.7
72.5°	532.2	520.0	512.7	498.1	493.2
75°	439.5	424.8	412.6	402.8	395.5
77.5°	346.7	332.0	324.7	312.5	312.5
80°	258.8	249.0	241.7	236.8	227.1
82.5°	178.2	173.3	166.0	158.7	151.4
85°	105.0	102.5	97.7	85.5	83.0
87.5°	41.5	41.5	36.6	34.2	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)