

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: P293771

Luminaire Tested: **24GR-LD5-64-A125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-A125-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6684.0 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

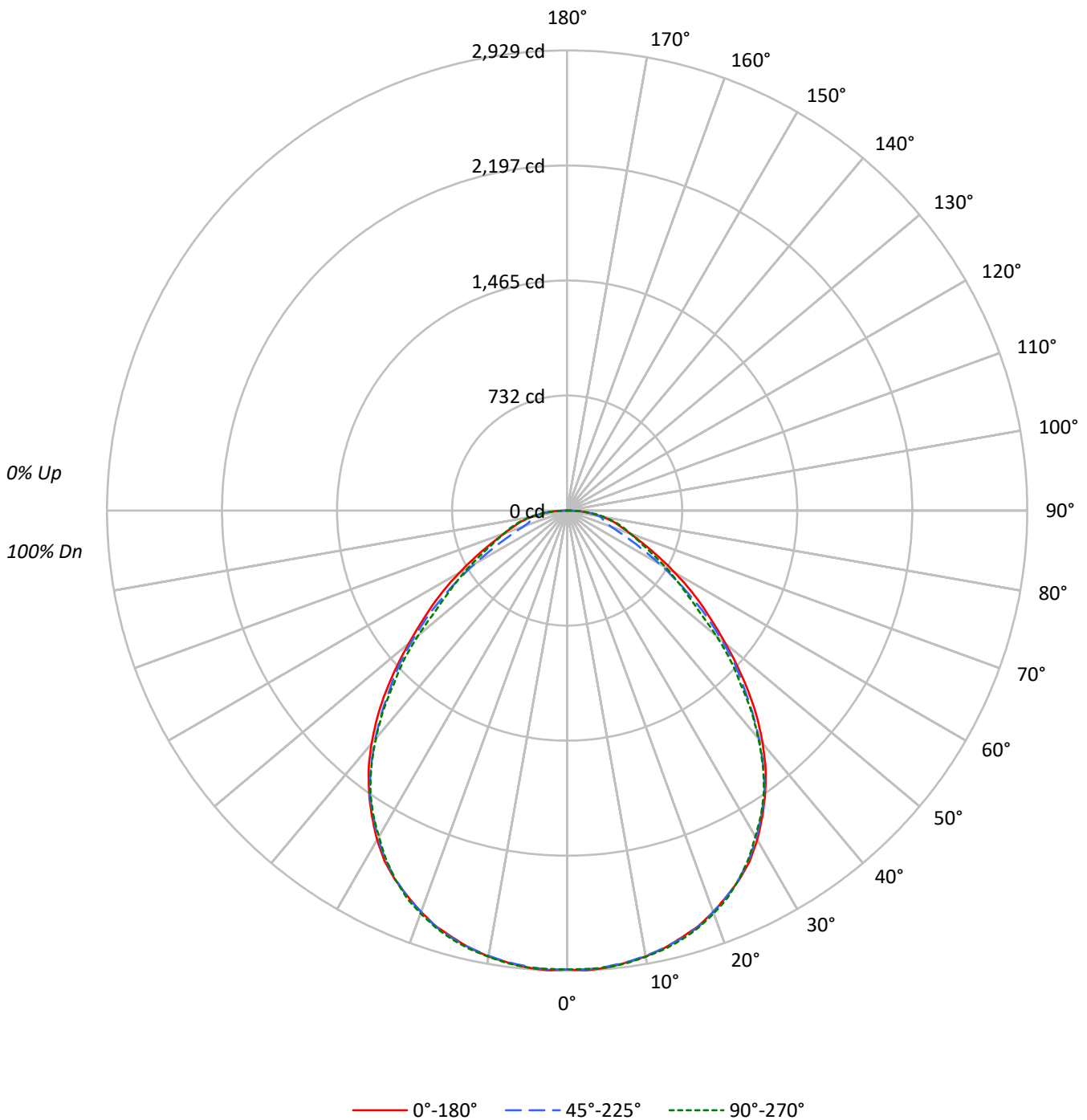
Input Watts (W): 47.244
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3930	3930	3930
5°	3943	3935	3942
10°	3938	3932	3939
15°	3919	3926	3936
20°	3892	3892	3907
25°	3848	3841	3844
30°	3758	3739	3721
35°	3610	3600	3586
40°	3401	3339	3324
45°	3111	3026	2970
50°	2750	2696	2591
55°	2446	2280	2192
60°	2130	1824	1956
65°	1839	1414	1730
70°	1678	1157	1674
75°	1691	1247	1778
80°	1761	1624	1874
85°	1836	1931	2076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.1	4.1
10°-20°	794.6	11.9
20°-30°	1189.4	17.8
30°-40°	1359.1	20.3
40°-50°	1228.7	18.4
50°-60°	884.0	13.2
60°-70°	512.5	7.7
70°-80°	304.0	4.5
80°-90°	134.6	2.0
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°	2261.0	33.8
0°-40°	3620.1	54.2
0°-60°	5732.9	85.8
0°-90°	6684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6684.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2921	2921	2921	2921	2921	
5°	2920	2916	2913	2909	2919	277
15°	2813	2818	2818	2815	2826	794
25°	2592	2589	2587	2582	2589	1192
35°	2198	2188	2192	2165	2184	1370
45°	1635	1607	1590	1576	1561	1256
55°	1043	1023	972	947	934	933
65°	578	513	444	496	543	583
75°	325	272	240	296	342	344
85°	119	128	125	144	134	127
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2920.7	2920.7	2920.7	2920.7	2920.7
2.5°	2929.0	2918.6	2923.8	2920.7	2919.6
5°	2919.6	2915.5	2913.4	2909.2	2918.6
7.5°	2900.9	2897.7	2898.8	2899.8	2906.1
10°	2882.1	2876.9	2877.9	2880.0	2883.1
12.5°	2852.9	2849.8	2850.8	2852.9	2860.2
15°	2813.3	2818.5	2818.5	2815.4	2825.8
17.5°	2773.7	2772.6	2777.8	2768.4	2783.0
20°	2718.4	2719.4	2718.4	2719.4	2728.8
22.5°	2655.8	2661.0	2657.9	2657.9	2668.3
25°	2592.2	2589.1	2587.0	2581.8	2589.1
27.5°	2516.1	2509.8	2504.6	2494.2	2499.4
30°	2419.1	2420.2	2406.6	2397.2	2395.1
32.5°	2310.7	2310.7	2298.2	2290.9	2297.1
35°	2198.1	2187.6	2191.8	2164.7	2183.5
37.5°	2076.1	2059.4	2050.0	2040.6	2046.9
40°	1936.3	1914.4	1900.9	1882.1	1892.5
42.5°	1789.3	1762.2	1745.5	1732.0	1736.1
45°	1635.0	1606.8	1590.2	1575.6	1561.0
47.5°	1472.3	1454.6	1446.3	1427.5	1410.8
50°	1313.8	1307.6	1287.8	1272.1	1237.7
52.5°	1168.9	1163.7	1132.4	1106.3	1062.5
55°	1042.7	1022.9	971.8	946.8	934.3
57.5°	914.5	882.1	820.6	817.5	825.8
60°	791.4	751.8	677.8	694.5	726.8
62.5°	679.9	620.4	549.5	589.1	627.7
65°	577.7	513.0	444.2	496.3	543.3
67.5°	493.2	428.6	357.7	427.5	481.7
70°	426.5	360.8	294.0	374.3	425.4
72.5°	371.2	311.8	256.5	332.6	385.8
75°	325.3	272.2	239.8	296.1	342.0
77.5°	279.5	236.7	229.4	263.8	292.0
80°	227.3	207.5	209.6	231.5	241.9
82.5°	170.0	171.0	176.2	193.9	189.8
85°	118.9	128.3	125.1	143.9	134.5
87.5°	65.7	71.9	67.8	82.4	74.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)