

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: P293516

Luminaire Tested: **24GR-LD5-64-A-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-A-UNV-L82765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6576.9 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

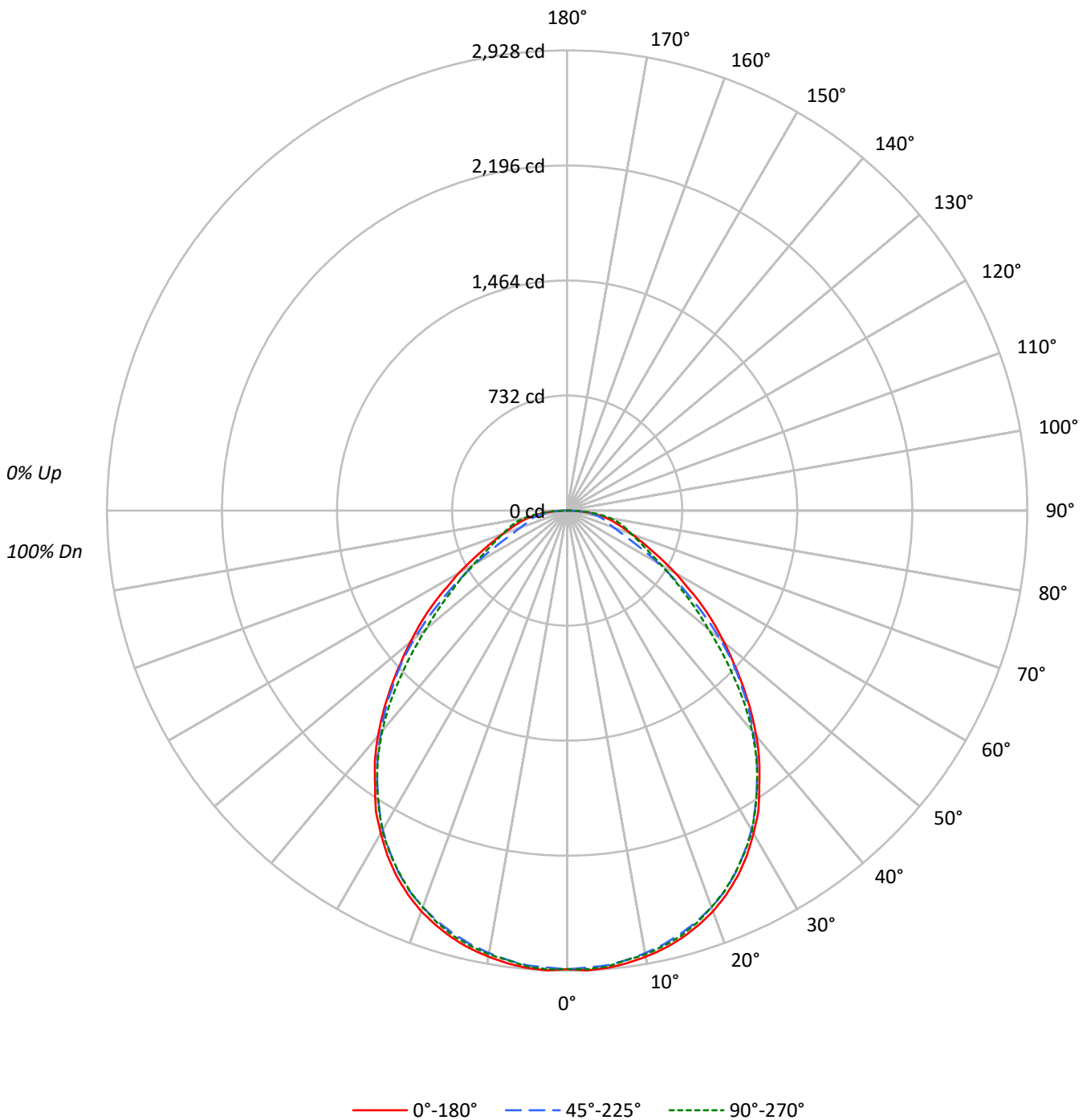
Input Watts (W): 46.779
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	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	46	72	60	52	46	58	51	46	57	50	45	55	49	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°	3926	3926	3926
5°	3945	3923	3933
10°	3938	3906	3917
15°	3923	3884	3901
20°	3886	3847	3845
25°	3810	3770	3767
30°	3684	3647	3654
35°	3500	3460	3465
40°	3291	3234	3214
45°	3016	2975	2857
50°	2727	2652	2452
55°	2448	2228	2114
60°	2144	1794	1859
65°	1870	1410	1711
70°	1711	1231	1711
75°	1711	1310	1886
80°	1858	1543	2149
85°	2039	1741	2306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.3	4.2
10°-20°	788.6	12.0
20°-30°	1169.4	17.8
30°-40°	1319.2	20.1
40°-50°	1194.8	18.2
50°-60°	862.0	13.1
60°-70°	514.7	7.8
70°-80°	318.1	4.8
80°-90°	134.0	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°	2234.3	34.0
0°-40°	3553.5	54.0
0°-60°	5610.2	85.3
0°-90°	6576.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6576.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2918	2918	2918	2918	2918	
5°	2921	2917	2905	2902	2912	278
15°	2816	2799	2788	2789	2800	794
25°	2567	2552	2539	2530	2537	1179
35°	2131	2128	2106	2107	2109	1333
45°	1585	1575	1564	1525	1502	1221
55°	1044	1011	950	903	901	932
65°	587	517	443	503	538	591
75°	329	286	252	314	363	352
85°	132	116	113	147	149	138
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2918.1	2918.1	2918.1	2918.1	2918.1
2.5°	2928.3	2920.2	2910.0	2916.1	2921.2
5°	2921.2	2917.1	2904.9	2901.9	2912.0
7.5°	2905.9	2895.8	2884.6	2889.7	2885.6
10°	2882.6	2873.4	2859.2	2860.2	2867.3
12.5°	2854.1	2842.9	2827.7	2831.8	2837.9
15°	2816.5	2799.3	2788.1	2789.1	2800.3
17.5°	2768.8	2755.6	2741.3	2744.4	2749.5
20°	2713.9	2706.8	2686.5	2680.4	2685.5
22.5°	2644.8	2631.6	2620.4	2617.4	2618.4
25°	2566.6	2552.4	2539.1	2530.0	2537.1
27.5°	2475.1	2462.9	2445.7	2442.6	2448.7
30°	2371.5	2362.4	2347.1	2343.0	2352.2
32.5°	2265.8	2250.6	2229.2	2229.2	2231.3
35°	2130.7	2127.6	2106.3	2107.3	2109.4
37.5°	2008.8	1994.5	1982.3	1970.1	1976.2
40°	1873.6	1857.4	1841.1	1833.0	1829.9
42.5°	1728.3	1716.1	1709.0	1679.6	1672.4
45°	1585.1	1574.9	1563.7	1525.1	1501.7
47.5°	1438.7	1436.7	1427.6	1359.5	1336.1
50°	1302.6	1299.5	1267.0	1194.9	1171.5
52.5°	1173.6	1153.2	1110.6	1039.4	1035.4
55°	1043.5	1011.0	950.0	903.3	901.2
57.5°	906.3	867.7	805.7	780.3	793.5
60°	796.6	737.7	666.5	669.6	690.9
62.5°	682.8	616.8	546.6	577.1	602.5
65°	587.3	517.2	443.0	503.0	537.5
67.5°	504.0	438.9	367.8	448.1	481.6
70°	434.9	382.0	312.9	397.3	434.9
72.5°	380.0	331.2	277.4	356.6	400.3
75°	329.2	285.5	252.0	314.0	362.7
77.5°	285.5	242.8	227.6	277.4	325.1
80°	239.8	201.2	199.1	241.8	277.4
82.5°	187.0	160.5	160.5	202.2	223.5
85°	132.1	115.8	112.8	147.3	149.4
87.5°	68.1	65.0	58.9	77.2	77.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)