

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: P293902

Luminaire Tested: **24GR-LD5-72-A125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293902
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-LD5-72-A125-UNV-L92765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6398.0 lumens
Efficiency: N/A
Efficacy: 120.3 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

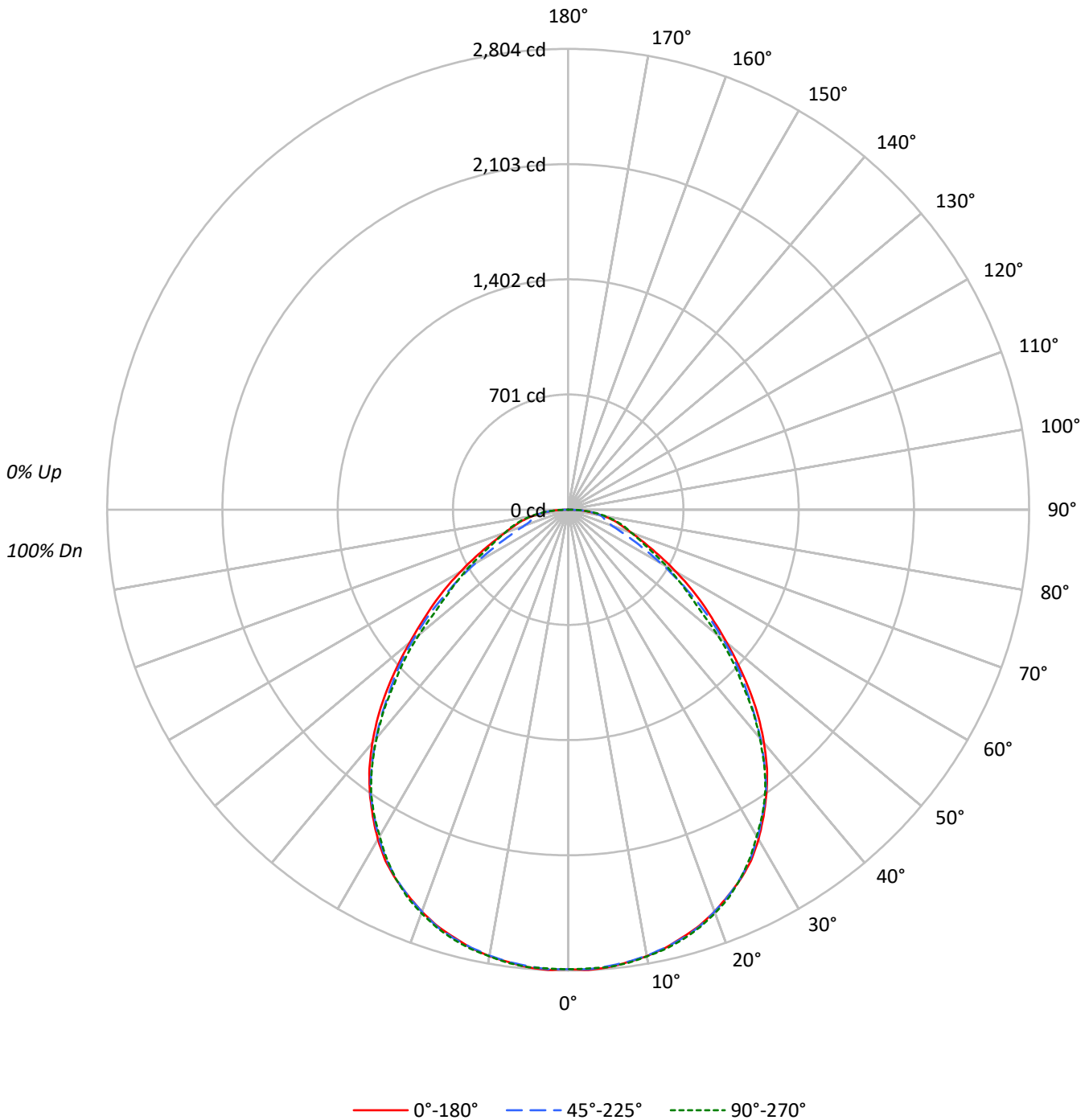
Input Watts (W): 53.196
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3762	3762	3762
5°	3775	3766	3773
10°	3769	3764	3771
15°	3751	3758	3768
20°	3726	3726	3740
25°	3684	3676	3679
30°	3598	3579	3562
35°	3456	3446	3433
40°	3256	3196	3182
45°	2978	2896	2843
50°	2632	2580	2480
55°	2341	2182	2098
60°	2039	1746	1872
65°	1761	1354	1656
70°	1606	1107	1602
75°	1619	1194	1702
80°	1686	1554	1795
85°	1757	1849	1988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.2	4.1
10°-20°	760.6	11.9
20°-30°	1138.5	17.8
30°-40°	1300.9	20.3
40°-50°	1176.2	18.4
50°-60°	846.2	13.2
60°-70°	490.6	7.7
70°-80°	291.0	4.5
80°-90°	128.9	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°	2164.3	33.8
0°-40°	3465.2	54.2
0°-60°	5487.6	85.8
0°-90°	6398.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6398.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2796	2796	2796	2796	2796	
5°	2795	2791	2789	2785	2794	265
15°	2693	2698	2698	2695	2705	760
25°	2481	2478	2476	2471	2478	1141
35°	2104	2094	2098	2072	2090	1312
45°	1565	1538	1522	1508	1494	1202
55°	998	979	930	906	894	893
65°	553	491	425	475	520	558
75°	311	260	230	284	327	329
85°	114	123	120	138	129	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2795.7	2795.7	2795.7	2795.7	2795.7
2.5°	2803.7	2793.7	2798.7	2795.7	2794.7
5°	2794.7	2790.7	2788.7	2784.7	2793.7
7.5°	2776.7	2773.7	2774.7	2775.7	2781.7
10°	2758.8	2753.8	2754.8	2756.8	2759.8
12.5°	2730.8	2727.8	2728.8	2730.8	2737.8
15°	2692.9	2697.9	2697.9	2694.9	2704.9
17.5°	2655.0	2654.0	2659.0	2650.0	2664.0
20°	2602.1	2603.1	2602.1	2603.1	2612.1
22.5°	2542.2	2547.2	2544.2	2544.2	2554.2
25°	2481.3	2478.3	2476.3	2471.3	2478.3
27.5°	2408.4	2402.4	2397.5	2387.5	2392.5
30°	2315.6	2316.6	2303.6	2294.7	2292.7
32.5°	2211.8	2211.8	2199.8	2192.8	2198.8
35°	2104.0	2094.0	2098.0	2072.1	2090.0
37.5°	1987.2	1971.3	1962.3	1953.3	1959.3
40°	1853.5	1832.5	1819.6	1801.6	1811.6
42.5°	1712.8	1686.8	1670.8	1657.9	1661.9
45°	1565.0	1538.1	1522.1	1508.1	1494.2
47.5°	1409.3	1392.4	1384.4	1366.4	1350.4
50°	1257.6	1251.6	1232.7	1217.7	1184.8
52.5°	1118.9	1113.9	1083.9	1059.0	1017.1
55°	998.1	979.1	930.2	906.3	894.3
57.5°	875.3	844.4	785.5	782.5	790.5
60°	757.6	719.6	648.8	664.7	695.7
62.5°	650.8	593.9	526.0	563.9	600.9
65°	553.0	491.1	425.2	475.1	520.0
67.5°	472.1	410.2	342.4	409.2	461.1
70°	408.2	345.3	281.5	358.3	407.2
72.5°	355.3	298.4	245.5	318.4	369.3
75°	311.4	260.5	229.6	283.5	327.4
77.5°	267.5	226.6	219.6	252.5	279.5
80°	217.6	198.6	200.6	221.6	231.6
82.5°	162.7	163.7	168.7	185.6	181.7
85°	113.8	122.8	119.8	137.7	128.8
87.5°	62.9	68.9	64.9	78.9	70.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)