

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: P293699

Luminaire Tested: **24GR-LD5-64-A125-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293699  
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-L83050-W2A1-U-5000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6796.0 lumens  
Efficiency: N/A  
Efficacy: 141.1 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

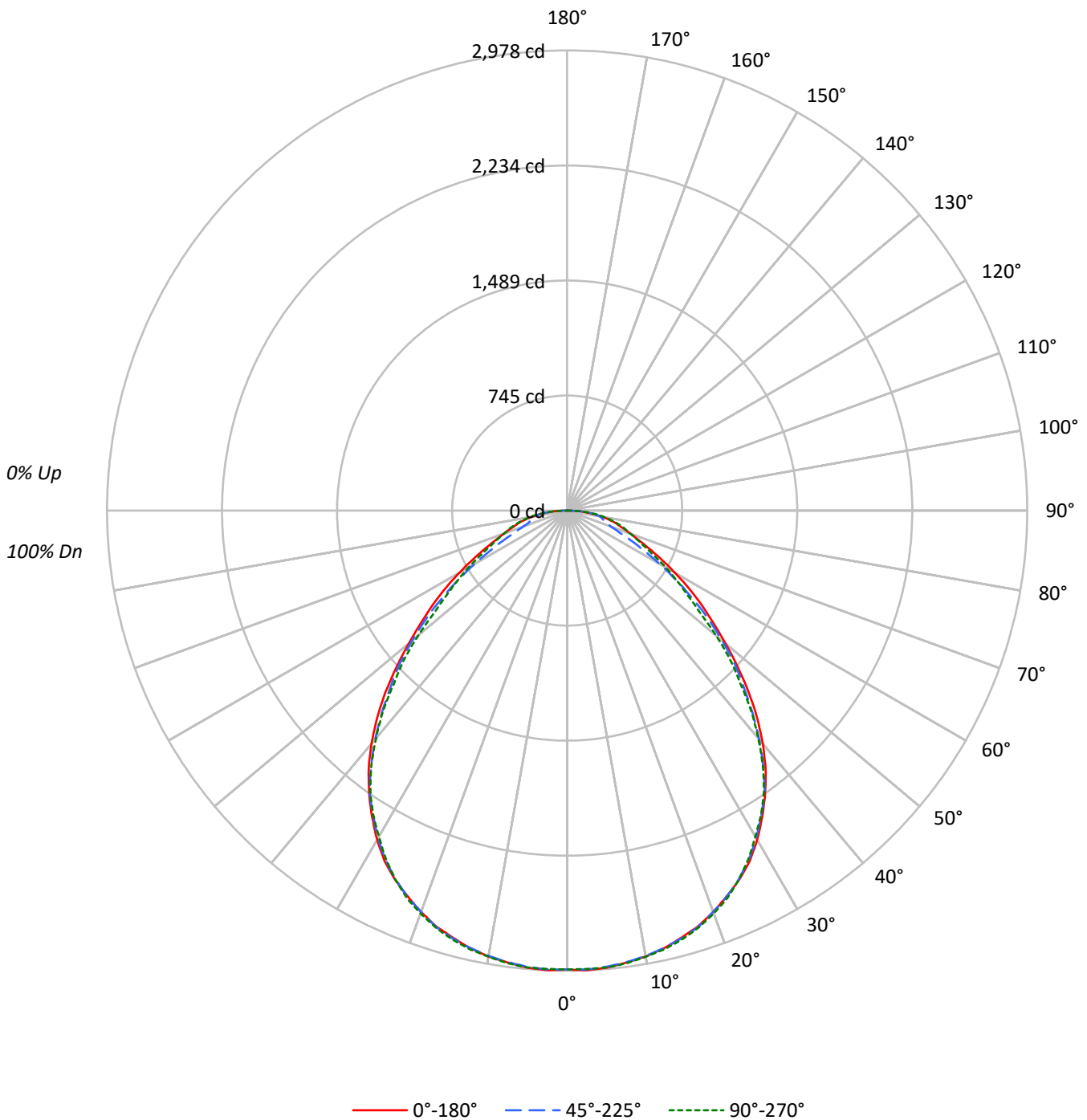
Input Watts (W): 48.174  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3996	3996	3996
5°	4009	4001	4008
10°	4004	3998	4005
15°	3984	3992	4002
20°	3957	3957	3973
25°	3913	3905	3908
30°	3821	3802	3784
35°	3671	3660	3647
40°	3458	3395	3380
45°	3163	3076	3020
50°	2796	2741	2634
55°	2487	2318	2228
60°	2165	1854	1989
65°	1870	1438	1759
70°	1706	1176	1702
75°	1720	1267	1808
80°	1791	1651	1906
85°	1866	1964	2112



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.7	4.1
10°-20°	807.9	11.9
20°-30°	1209.3	17.8
30°-40°	1381.9	20.3
40°-50°	1249.3	18.4
50°-60°	898.8	13.2
60°-70°	521.1	7.7
70°-80°	309.1	4.5
80°-90°	136.9	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°	2298.9	33.8
0°-40°	3680.8	54.2
0°-60°	5828.9	85.8
0°-90°	6796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6796.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2970	2970	2970	2970	2970	
5°	2969	2964	2962	2958	2968	282
15°	2860	2866	2866	2862	2873	808
25°	2636	2632	2630	2625	2632	1212
35°	2235	2224	2228	2201	2220	1393
45°	1662	1634	1617	1602	1587	1277
55°	1060	1040	988	963	950	948
65°	587	522	452	505	552	593
75°	331	277	244	301	348	350
85°	121	130	127	146	137	130
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2969.6	2969.6	2969.6	2969.6	2969.6
2.5°	2978.1	2967.5	2972.8	2969.6	2968.6
5°	2968.6	2964.3	2962.2	2958.0	2967.5
7.5°	2949.5	2946.3	2947.4	2948.4	2954.8
10°	2930.4	2925.1	2926.1	2928.3	2931.4
12.5°	2900.7	2897.5	2898.6	2900.7	2908.1
15°	2860.4	2865.7	2865.7	2862.5	2873.1
17.5°	2820.1	2819.1	2824.4	2814.8	2829.7
20°	2763.9	2765.0	2763.9	2765.0	2774.5
22.5°	2700.3	2705.6	2702.4	2702.4	2713.0
25°	2635.7	2632.5	2630.4	2625.1	2632.5
27.5°	2558.3	2551.9	2546.6	2536.0	2541.3
30°	2459.7	2460.7	2446.9	2437.4	2435.3
32.5°	2349.4	2349.4	2336.7	2329.3	2335.6
35°	2234.9	2224.3	2228.5	2201.0	2220.1
37.5°	2110.9	2093.9	2084.4	2074.8	2081.2
40°	1968.8	1946.5	1932.7	1913.7	1924.3
42.5°	1819.3	1791.7	1774.8	1761.0	1765.2
45°	1662.4	1633.8	1616.8	1602.0	1587.1
47.5°	1497.0	1479.0	1470.5	1451.4	1434.4
50°	1335.9	1329.5	1309.3	1293.4	1258.5
52.5°	1188.5	1183.2	1151.4	1124.9	1080.3
55°	1060.2	1040.1	988.1	962.7	949.9
57.5°	929.8	896.9	834.4	831.2	839.7
60°	804.7	764.4	689.1	706.1	739.0
62.5°	691.2	630.8	558.7	599.0	638.2
65°	587.3	521.6	451.6	504.7	552.4
67.5°	501.5	435.7	363.6	434.7	489.8
70°	433.6	366.8	299.0	380.6	432.6
72.5°	377.4	317.0	260.8	338.2	392.3
75°	330.8	276.7	243.8	301.1	347.7
77.5°	284.1	240.7	233.2	268.2	296.9
80°	231.1	211.0	213.1	235.4	246.0
82.5°	172.8	173.9	179.2	197.2	193.0
85°	120.9	130.4	127.2	146.3	136.8
87.5°	66.8	73.2	68.9	83.8	75.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)