

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: P475812

Luminaire Tested: **24GR-LD5-64-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475812  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-64-A125-UNV-L850-CD1-U  
Description: GR 2'X4' LED TROFFER w/ A125 LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6490.8 lumens  
Efficiency: N/A  
Efficacy: 149.6 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

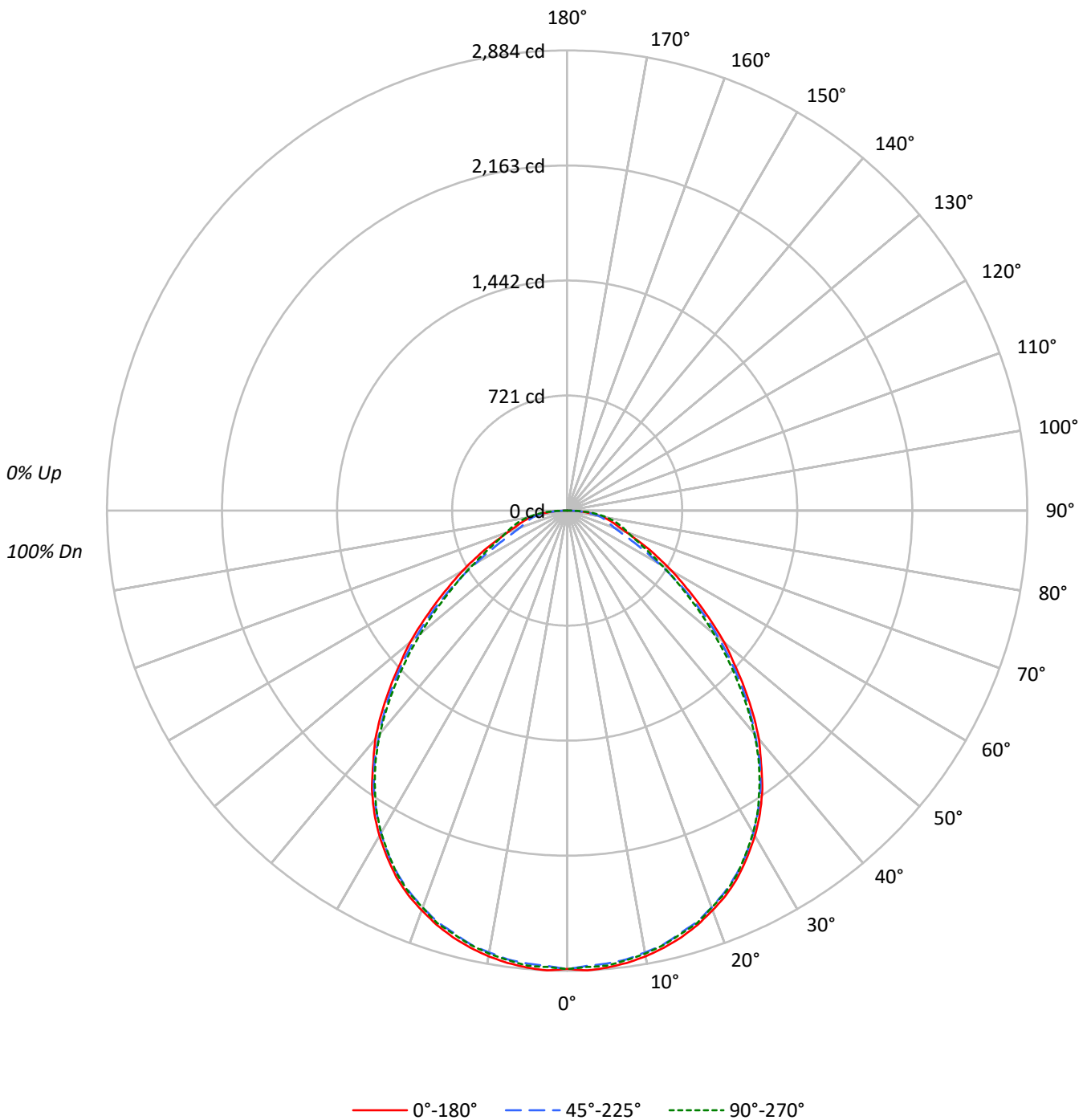
Input Watts (W): 43.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	78	76	73
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63
4	86	74	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	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3865	3865	3865
5°	3884	3850	3866
10°	3875	3842	3852
15°	3856	3818	3827
20°	3817	3790	3792
25°	3762	3731	3737
30°	3657	3624	3622
35°	3504	3469	3452
40°	3283	3219	3205
45°	2989	2929	2872
50°	2691	2595	2511
55°	2335	2208	2142
60°	2039	1780	1842
65°	1764	1415	1637
70°	1556	1240	1599
75°	1562	1349	1749
80°	1712	1602	1980
85°	1805	1744	2269



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.5	4.2
10°-20°	775.8	12.0
20°-30°	1156.7	17.8
30°-40°	1314.9	20.3
40°-50°	1185.0	18.3
50°-60°	853.6	13.2
60°-70°	496.5	7.6
70°-80°	303.8	4.7
80°-90°	133.0	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°	2204.0	34.0
0°-40°	3519.0	54.2
0°-60°	5557.6	85.6
0°-90°	6490.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6490.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2873	2873	2873	2873	2873	
5°	2875	2856	2850	2856	2863	273
15°	2768	2753	2741	2746	2748	780
25°	2534	2518	2513	2509	2517	1164
35°	2133	2118	2112	2100	2102	1327
45°	1571	1553	1539	1515	1510	1212
55°	995	972	941	932	913	897
65°	554	498	444	479	514	554
75°	300	272	259	295	336	320
85°	117	116	113	154	147	124
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2872.9	2872.9	2872.9	2872.9	2872.9
2.5°	2884.4	2869.0	2856.2	2856.8	2863.2
5°	2875.4	2855.5	2850.4	2856.2	2862.6
7.5°	2859.4	2840.8	2837.6	2834.3	2842.1
10°	2836.3	2823.4	2811.9	2815.1	2819.6
12.5°	2805.5	2794.5	2786.2	2779.8	2789.4
15°	2768.2	2752.8	2741.2	2745.7	2747.7
17.5°	2721.3	2706.6	2703.4	2700.8	2710.4
20°	2665.5	2656.5	2646.8	2649.4	2648.1
22.5°	2606.4	2592.9	2585.2	2581.4	2591.6
25°	2533.8	2518.4	2513.3	2509.4	2517.1
27.5°	2445.2	2436.9	2429.8	2424.7	2425.3
30°	2354.0	2345.7	2332.8	2329.0	2331.6
32.5°	2249.4	2239.7	2228.2	2216.6	2225.0
35°	2133.1	2118.4	2112.0	2099.8	2101.7
37.5°	1995.7	1989.3	1983.5	1967.5	1972.6
40°	1869.2	1851.9	1832.6	1823.0	1824.9
42.5°	1722.8	1704.8	1689.4	1676.0	1669.5
45°	1570.6	1552.7	1539.2	1515.4	1509.6
47.5°	1419.1	1402.4	1387.6	1369.0	1352.3
50°	1285.5	1254.7	1239.9	1220.7	1199.5
52.5°	1135.3	1117.3	1088.4	1072.4	1053.1
55°	995.3	971.5	941.4	931.7	913.1
57.5°	869.4	843.8	799.4	795.6	795.0
60°	757.7	723.0	661.4	665.9	684.5
62.5°	649.2	599.7	543.9	563.8	591.4
65°	554.2	498.3	444.4	479.0	514.3
67.5°	463.0	412.9	367.3	413.5	450.8
70°	395.6	353.8	315.3	364.7	406.5
72.5°	339.0	306.9	281.9	326.8	371.8
75°	300.5	272.3	259.4	295.4	336.5
77.5°	264.6	239.5	235.7	267.8	297.9
80°	220.9	203.6	206.8	239.5	255.6
82.5°	168.2	163.1	163.7	204.8	208.0
85°	116.9	115.6	113.0	153.5	147.0
87.5°	59.1	60.4	59.7	87.3	78.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)