

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: P475768

Luminaire Tested: **24GR-LD5-72-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475768  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-72-A125-UNV-L830-CD1-U  
Description: GR 2'X4' LED TROFFER w/ A125 LENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6893.7 lumens  
Efficiency: N/A  
Efficacy: 141.6 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

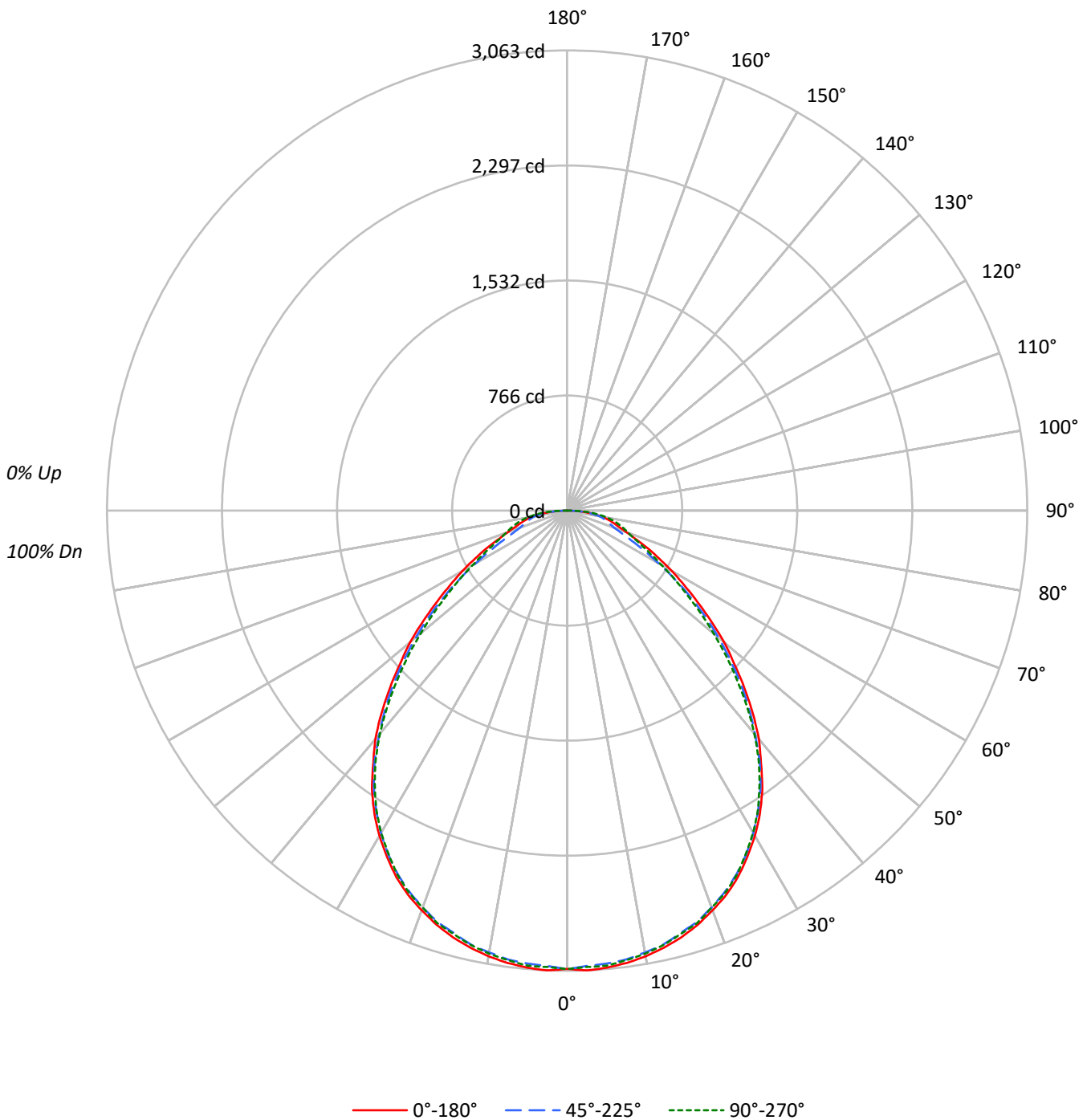
Input Watts (W): 48.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4105	4105	4105
5°	4125	4089	4106
10°	4116	4080	4091
15°	4095	4055	4065
20°	4053	4025	4027
25°	3995	3963	3969
30°	3884	3849	3847
35°	3721	3684	3666
40°	3487	3419	3404
45°	3174	3111	3051
50°	2858	2757	2667
55°	2480	2345	2275
60°	2165	1890	1956
65°	1874	1502	1739
70°	1653	1317	1698
75°	1659	1432	1858
80°	1818	1702	2103
85°	1916	1853	2411



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.4	4.2
10°-20°	824.0	12.0
20°-30°	1228.5	17.8
30°-40°	1396.5	20.3
40°-50°	1258.6	18.3
50°-60°	906.6	13.2
60°-70°	527.3	7.6
70°-80°	322.7	4.7
80°-90°	141.2	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°	2340.8	34.0
0°-40°	3737.4	54.2
0°-60°	5902.5	85.6
0°-90°	6893.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6893.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3051	3051	3051	3051	3051	
5°	3054	3033	3027	3033	3040	290
15°	2940	2924	2911	2916	2918	829
25°	2691	2675	2669	2665	2673	1236
35°	2266	2250	2243	2230	2232	1410
45°	1668	1649	1635	1610	1603	1287
55°	1057	1032	1000	990	970	953
65°	588	529	472	509	546	589
75°	319	289	276	314	357	340
85°	124	123	120	163	156	131
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3051.2	3051.2	3051.2	3051.2	3051.2
2.5°	3063.4	3047.1	3033.4	3034.1	3040.9
5°	3053.9	3032.8	3027.3	3033.4	3040.3
7.5°	3036.9	3017.1	3013.7	3010.3	3018.4
10°	3012.3	2998.7	2986.4	2989.8	2994.6
12.5°	2979.6	2968.0	2959.1	2952.3	2962.5
15°	2940.0	2923.6	2911.4	2916.1	2918.2
17.5°	2890.2	2874.5	2871.1	2868.4	2878.6
20°	2830.9	2821.3	2811.1	2813.8	2812.5
22.5°	2768.2	2753.8	2745.6	2741.6	2752.5
25°	2691.1	2674.7	2669.3	2665.2	2673.4
27.5°	2597.0	2588.1	2580.6	2575.2	2575.8
30°	2500.1	2491.3	2477.6	2473.5	2476.3
32.5°	2389.0	2378.7	2366.5	2354.2	2363.1
35°	2265.5	2249.8	2243.0	2230.1	2232.1
37.5°	2119.6	2112.8	2106.6	2089.6	2095.0
40°	1985.2	1966.8	1946.4	1936.1	1938.2
42.5°	1829.7	1810.7	1794.3	1780.0	1773.1
45°	1668.1	1649.0	1634.7	1609.5	1603.3
47.5°	1507.2	1489.4	1473.8	1454.0	1436.2
50°	1365.3	1332.6	1316.9	1296.4	1273.9
52.5°	1205.7	1186.6	1156.0	1138.9	1118.4
55°	1057.1	1031.8	999.8	989.6	969.8
57.5°	923.4	896.1	849.1	845.0	844.3
60°	804.7	767.9	702.4	707.2	727.0
62.5°	689.5	637.0	577.6	598.8	628.1
65°	588.5	529.2	471.9	508.8	546.3
67.5°	491.7	438.5	390.1	439.2	478.7
70°	420.1	375.8	334.9	387.4	431.7
72.5°	360.1	326.0	299.4	347.1	394.9
75°	319.2	289.2	275.5	313.7	357.4
77.5°	281.0	254.4	250.3	284.4	316.4
80°	234.6	216.2	219.6	254.4	271.4
82.5°	178.7	173.2	173.9	217.6	221.0
85°	124.1	122.8	120.0	163.0	156.2
87.5°	62.7	64.1	63.4	92.7	83.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)