

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: P293780

Luminaire Tested: **24GR-LD5-72-A125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293780  
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-L82765-W2A1-U-5700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7552.0 lumens  
Efficiency: N/A  
Efficacy: 139.8 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

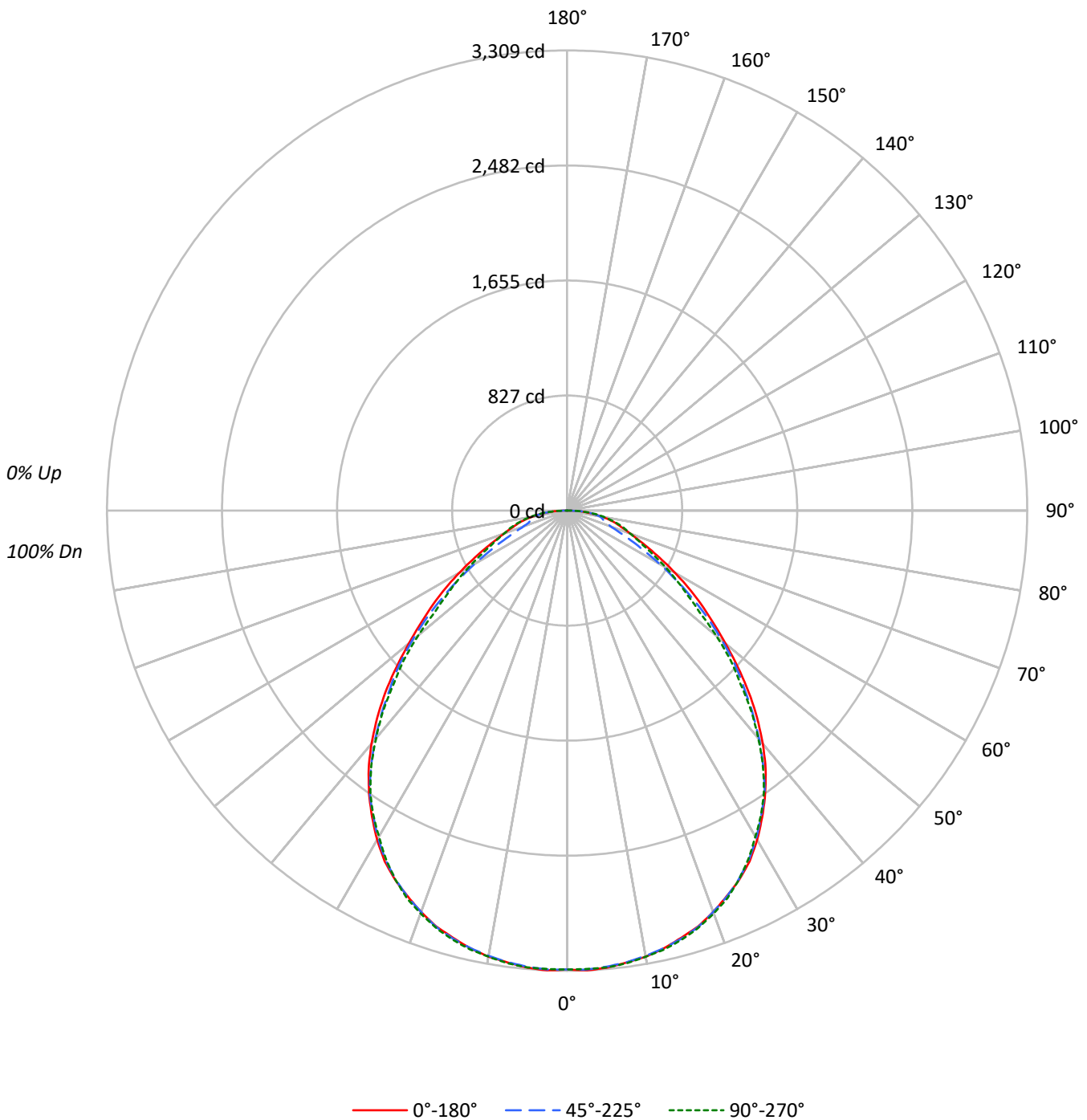
Input Watts (W): 54.033  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	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	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°	4440	4440	4440
5°	4455	4446	4454
10°	4449	4443	4451
15°	4428	4436	4447
20°	4398	4398	4415
25°	4348	4339	4343
30°	4247	4224	4204
35°	4079	4068	4052
40°	3843	3772	3756
45°	3515	3419	3356
50°	3107	3046	2927
55°	2764	2576	2476
60°	2406	2061	2210
65°	2078	1598	1954
70°	1896	1307	1891
75°	1911	1409	2009
80°	1990	1835	2118
85°	2073	2183	2347



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.0	4.1
10°-20°	897.8	11.9
20°-30°	1343.8	17.8
30°-40°	1535.6	20.3
40°-50°	1388.3	18.4
50°-60°	998.8	13.2
60°-70°	579.0	7.7
70°-80°	343.5	4.5
80°-90°	152.1	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°	2554.7	33.8
0°-40°	4090.2	54.2
0°-60°	6477.4	85.8
0°-90°	7552.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7552.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3300	3300	3300	3300	3300	
5°	3299	3294	3292	3287	3298	313
15°	3179	3184	3184	3181	3193	897
25°	2929	2925	2923	2917	2925	1346
35°	2484	2472	2476	2446	2467	1548
45°	1847	1816	1797	1780	1764	1419
55°	1178	1156	1098	1070	1056	1054
65°	653	580	502	561	614	659
75°	368	308	271	335	386	388
85°	134	145	141	163	152	144
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3300.0	3300.0	3300.0	3300.0	3300.0
2.5°	3309.4	3297.6	3303.5	3300.0	3298.8
5°	3298.8	3294.1	3291.7	3287.0	3297.6
7.5°	3277.6	3274.0	3275.2	3276.4	3283.5
10°	3256.4	3250.5	3251.7	3254.0	3257.5
12.5°	3223.4	3219.8	3221.0	3223.4	3231.6
15°	3178.6	3184.5	3184.5	3181.0	3192.8
17.5°	3133.8	3132.7	3138.6	3128.0	3144.4
20°	3071.4	3072.6	3071.4	3072.6	3083.2
22.5°	3000.7	3006.6	3003.1	3003.1	3014.9
25°	2928.8	2925.3	2923.0	2917.1	2925.3
27.5°	2842.8	2835.8	2829.9	2818.1	2824.0
30°	2733.3	2734.5	2719.1	2708.5	2706.2
32.5°	2610.8	2610.8	2596.6	2588.4	2595.4
35°	2483.5	2471.7	2476.4	2445.8	2467.0
37.5°	2345.7	2326.8	2316.2	2305.6	2312.7
40°	2187.8	2163.1	2147.7	2126.5	2138.3
42.5°	2021.7	1991.1	1972.2	1956.9	1961.6
45°	1847.3	1815.5	1796.7	1780.2	1763.7
47.5°	1663.5	1643.5	1634.1	1612.9	1594.0
50°	1484.5	1477.4	1455.0	1437.3	1398.4
52.5°	1320.7	1314.8	1279.5	1250.0	1200.5
55°	1178.1	1155.8	1098.0	1069.7	1055.6
57.5°	1033.2	996.7	927.2	923.7	933.1
60°	894.2	849.4	765.8	784.6	821.2
62.5°	768.1	701.0	620.9	665.6	709.2
65°	652.7	579.6	501.9	560.8	613.8
67.5°	557.3	484.2	404.1	483.0	544.3
70°	481.9	407.6	332.2	423.0	480.7
72.5°	419.4	352.3	289.8	375.8	435.9
75°	367.6	307.5	271.0	334.6	386.4
77.5°	315.7	267.4	259.2	298.1	329.9
80°	256.8	234.4	236.8	261.5	273.3
82.5°	192.0	193.2	199.1	219.1	214.4
85°	134.3	144.9	141.4	162.6	152.0
87.5°	74.2	81.3	76.6	93.1	83.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)