

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: P293759

Luminaire Tested: **24GR-LD5-56-A125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293759  
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-LD5-56-A125-UNV-L82765-W2A1-U-4500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5735.0 lumens  
Efficiency: N/A  
Efficacy: 144.4 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

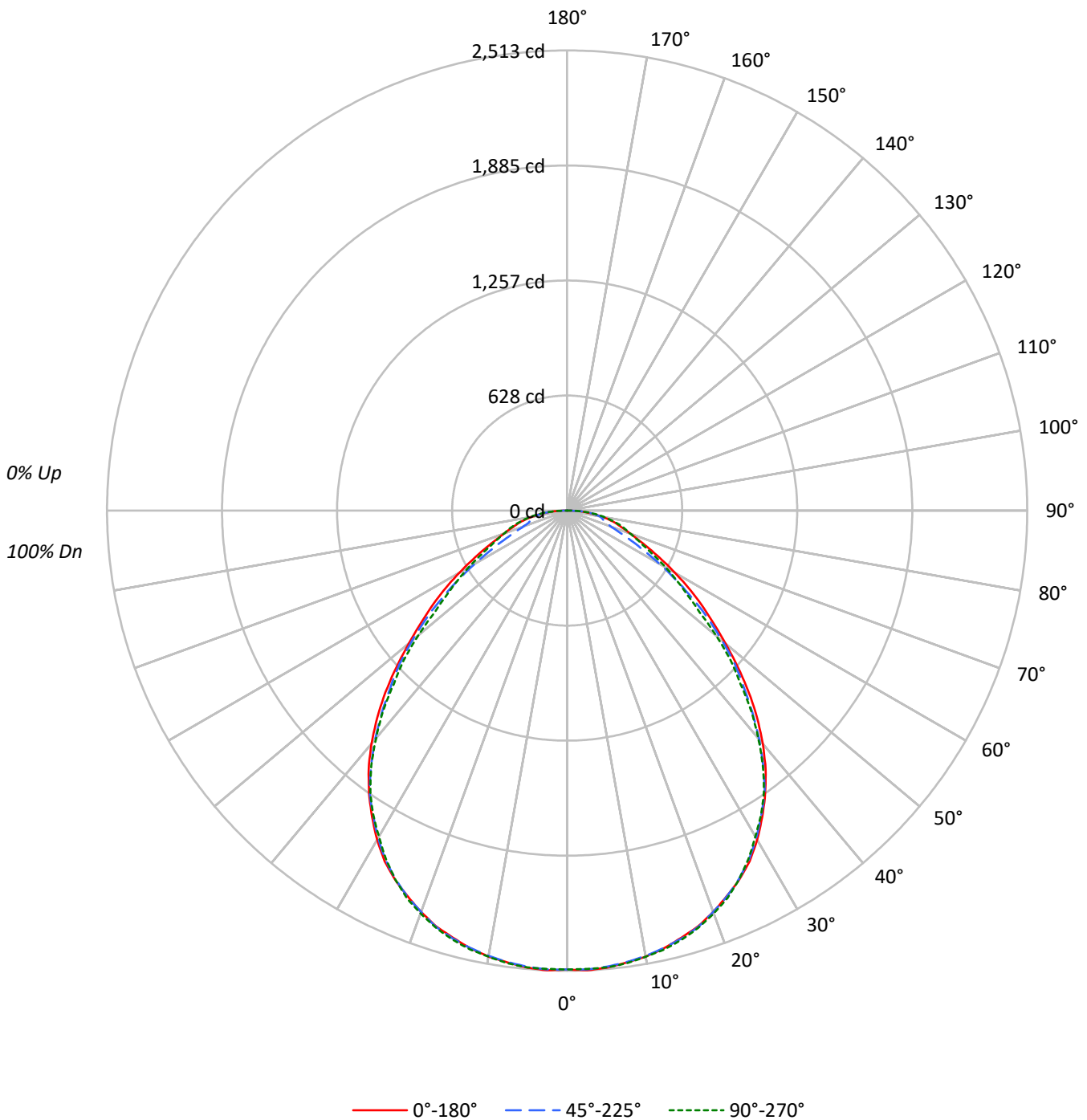
Input Watts (W): 39.711  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3372	3372	3372
5°	3383	3376	3382
10°	3379	3374	3380
15°	3362	3369	3377
20°	3340	3340	3353
25°	3302	3295	3298
30°	3225	3208	3193
35°	3098	3089	3077
40°	2918	2865	2852
45°	2669	2596	2548
50°	2360	2313	2223
55°	2099	1956	1880
60°	1827	1565	1678
65°	1578	1213	1484
70°	1439	993	1436
75°	1451	1070	1526
80°	1511	1393	1609
85°	1575	1658	1782



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.7	4.1
10°-20°	681.8	11.9
20°-30°	1020.5	17.8
30°-40°	1166.1	20.3
40°-50°	1054.3	18.4
50°-60°	758.5	13.2
60°-70°	439.7	7.7
70°-80°	260.8	4.5
80°-90°	115.5	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°	1940.0	33.8
0°-40°	3106.1	54.2
0°-60°	4918.9	85.8
0°-90°	5735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5735.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2506	2506	2506	2506	2506	
5°	2505	2502	2500	2496	2504	238
15°	2414	2418	2418	2416	2425	681
25°	2224	2222	2220	2215	2222	1023
35°	1886	1877	1881	1857	1874	1176
45°	1403	1379	1364	1352	1339	1078
55°	895	878	834	812	802	800
65°	496	440	381	426	466	500
75°	279	234	206	254	294	295
85°	102	110	107	124	115	109
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2506.0	2506.0	2506.0	2506.0	2506.0
2.5°	2513.2	2504.2	2508.7	2506.0	2505.1
5°	2505.1	2501.5	2499.7	2496.2	2504.2
7.5°	2489.0	2486.3	2487.2	2488.1	2493.5
10°	2472.9	2468.4	2469.3	2471.1	2473.8
12.5°	2447.8	2445.2	2446.1	2447.8	2454.1
15°	2413.8	2418.3	2418.3	2415.6	2424.6
17.5°	2379.8	2379.0	2383.4	2375.4	2387.9
20°	2332.4	2333.3	2332.4	2333.3	2341.4
22.5°	2278.7	2283.2	2280.5	2280.5	2289.5
25°	2224.2	2221.5	2219.7	2215.2	2221.5
27.5°	2158.9	2153.5	2149.0	2140.1	2144.5
30°	2075.7	2076.5	2064.9	2056.9	2055.1
32.5°	1982.6	1982.6	1971.9	1965.6	1971.0
35°	1886.0	1877.0	1880.6	1857.4	1873.5
37.5°	1781.3	1767.0	1758.9	1750.9	1756.3
40°	1661.4	1642.6	1631.0	1614.9	1623.8
42.5°	1535.3	1512.0	1497.7	1486.1	1489.6
45°	1402.9	1378.7	1364.4	1351.9	1339.3
47.5°	1263.3	1248.1	1240.9	1224.8	1210.5
50°	1127.3	1121.9	1104.9	1091.5	1062.0
52.5°	1002.9	998.5	971.6	949.3	911.7
55°	894.7	877.7	833.8	812.4	801.6
57.5°	784.6	756.9	704.1	701.4	708.6
60°	679.1	645.1	581.5	595.9	623.6
62.5°	583.3	532.3	471.5	505.5	538.6
65°	495.7	440.2	381.1	425.9	466.1
67.5°	423.2	367.7	306.9	366.8	413.3
70°	365.9	309.6	252.3	321.2	365.0
72.5°	318.5	267.5	220.1	285.4	331.0
75°	279.1	233.5	205.8	254.1	293.5
77.5°	239.8	203.1	196.8	226.4	250.5
80°	195.0	178.0	179.8	198.6	207.6
82.5°	145.8	146.7	151.2	166.4	162.8
85°	102.0	110.0	107.4	123.5	115.4
87.5°	56.4	61.7	58.2	70.7	63.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)