

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: P293763

Luminaire Tested: **24GR-LD5-56-A125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293763  
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-6500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5901.0 lumens  
Efficiency: N/A  
Efficacy: 144.9 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

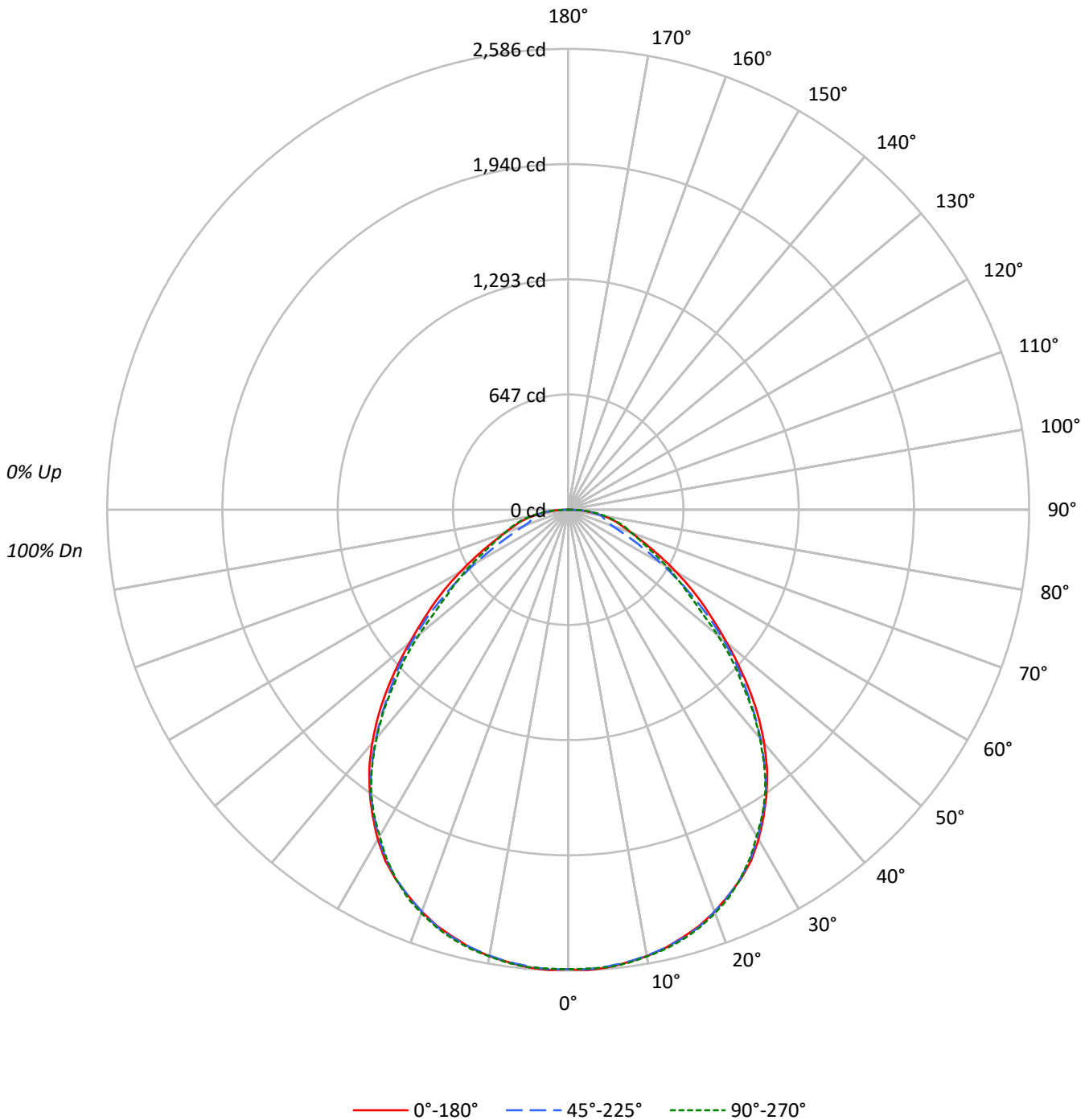
Input Watts (W): 40.734  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3469	3469	3469
5°	3481	3474	3480
10°	3476	3471	3478
15°	3460	3466	3475
20°	3436	3436	3449
25°	3398	3391	3393
30°	3318	3301	3285
35°	3188	3178	3166
40°	3003	2948	2935
45°	2747	2671	2622
50°	2428	2380	2287
55°	2160	2013	1935
60°	1880	1610	1727
65°	1624	1249	1527
70°	1481	1021	1478
75°	1493	1101	1569
80°	1555	1433	1655
85°	1619	1706	1834



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.6	4.1
10°-20°	701.5	11.9
20°-30°	1050.1	17.8
30°-40°	1199.9	20.3
40°-50°	1084.8	18.4
50°-60°	780.4	13.2
60°-70°	452.4	7.7
70°-80°	268.4	4.5
80°-90°	118.9	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°	1996.1	33.8
0°-40°	3196.0	54.2
0°-60°	5061.3	85.8
0°-90°	5901.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5901.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2578	2578	2578	2578	2578	
5°	2578	2574	2572	2568	2577	245
15°	2484	2488	2488	2486	2495	701
25°	2289	2286	2284	2279	2286	1052
35°	1941	1931	1935	1911	1928	1210
45°	1444	1419	1404	1391	1378	1109
55°	921	903	858	836	825	824
65°	510	453	392	438	480	515
75°	287	240	212	261	302	304
85°	105	113	110	127	119	112
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2578.5	2578.5	2578.5	2578.5	2578.5
2.5°	2585.9	2576.7	2581.3	2578.5	2577.6
5°	2577.6	2573.9	2572.1	2568.4	2576.7
7.5°	2561.0	2558.3	2559.2	2560.1	2565.6
10°	2544.5	2539.9	2540.8	2542.6	2545.4
12.5°	2518.7	2515.9	2516.9	2518.7	2525.1
15°	2483.7	2488.3	2488.3	2485.6	2494.8
17.5°	2448.7	2447.8	2452.4	2444.1	2457.0
20°	2399.9	2400.9	2399.9	2400.9	2409.1
22.5°	2344.7	2349.3	2346.5	2346.5	2355.8
25°	2288.6	2285.8	2283.9	2279.3	2285.8
27.5°	2221.3	2215.8	2211.2	2202.0	2206.6
30°	2135.7	2136.7	2124.7	2116.4	2114.6
32.5°	2040.0	2040.0	2028.9	2022.5	2028.0
35°	1940.6	1931.4	1935.0	1911.1	1927.7
37.5°	1832.9	1818.1	1809.9	1801.6	1807.1
40°	1709.5	1690.2	1678.2	1661.6	1670.8
42.5°	1579.7	1555.8	1541.0	1529.1	1532.8
45°	1443.5	1418.6	1403.9	1391.0	1378.1
47.5°	1299.9	1284.2	1276.8	1260.3	1245.5
50°	1159.9	1154.4	1136.9	1123.1	1092.7
52.5°	1032.0	1027.4	999.7	976.7	938.1
55°	920.6	903.1	858.0	835.9	824.8
57.5°	807.3	778.8	724.5	721.7	729.1
60°	698.7	663.7	598.4	613.1	641.6
62.5°	600.2	547.7	485.1	520.1	554.2
65°	510.0	452.9	392.2	438.2	479.6
67.5°	435.4	378.4	315.8	377.4	425.3
70°	376.5	318.5	259.6	330.5	375.6
72.5°	327.7	275.3	226.5	293.7	340.6
75°	287.2	240.3	211.7	261.4	301.9
77.5°	246.7	209.0	202.5	232.9	257.8
80°	200.7	183.2	185.0	204.4	213.6
82.5°	150.1	151.0	155.6	171.2	167.5
85°	104.9	113.2	110.5	127.0	118.8
87.5°	58.0	63.5	59.8	72.7	65.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)