

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: P293888

Luminaire Tested: **24GR-LD5-56-A125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293888  
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-L92765-W2A1-U-5700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5322.0 lumens  
Efficiency: N/A  
Efficacy: 132.5 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

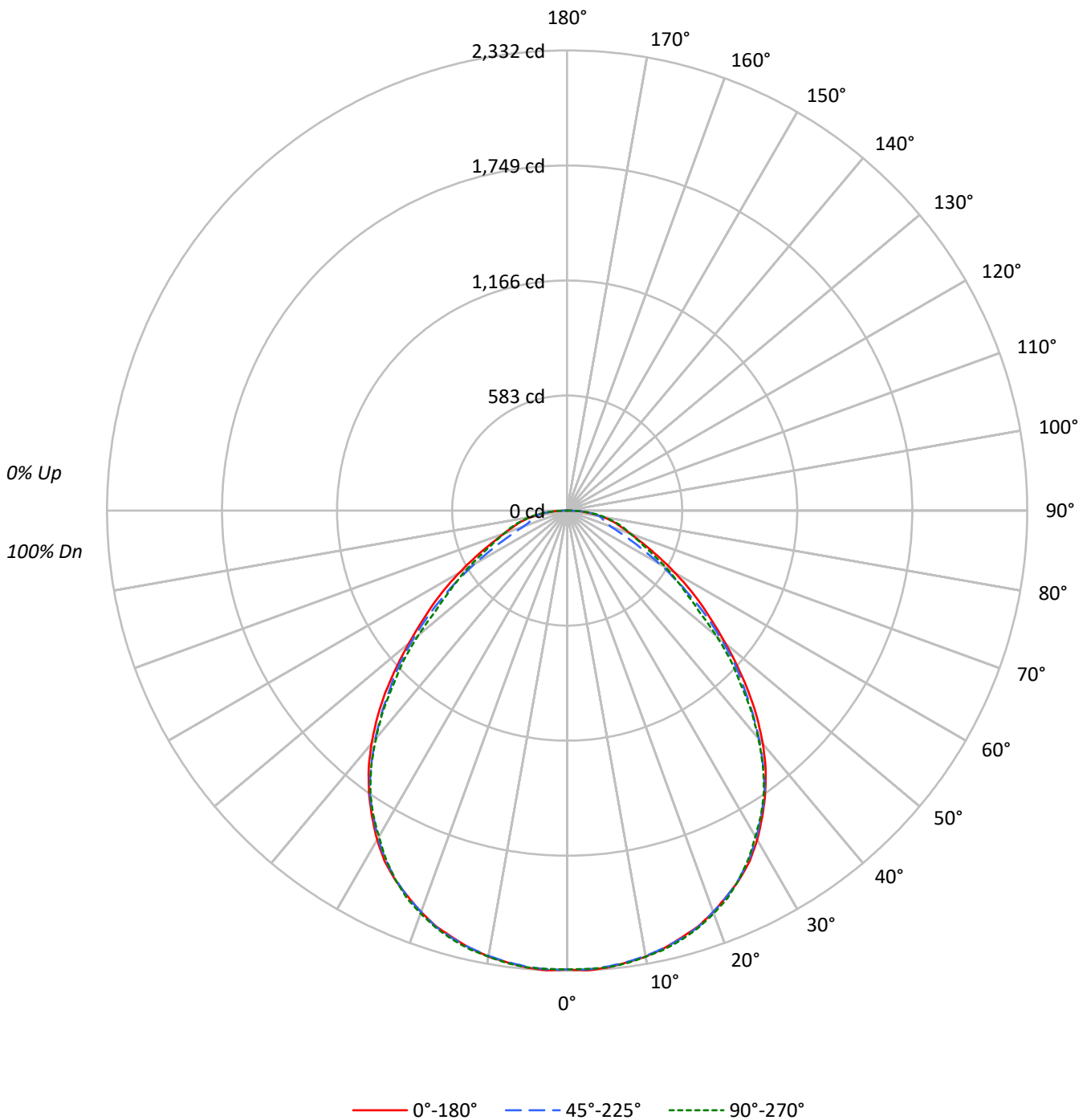
Input Watts (W): 40.176  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3129	3129	3129
5°	3140	3133	3139
10°	3135	3131	3136
15°	3120	3126	3134
20°	3099	3099	3111
25°	3064	3058	3060
30°	2993	2977	2963
35°	2875	2867	2856
40°	2708	2658	2647
45°	2477	2409	2365
50°	2190	2146	2063
55°	1947	1815	1745
60°	1696	1452	1557
65°	1465	1126	1377
70°	1336	921	1332
75°	1346	993	1416
80°	1402	1293	1492
85°	1460	1538	1653



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.6	4.1
10°-20°	632.7	11.9
20°-30°	947.0	17.8
30°-40°	1082.1	20.3
40°-50°	978.4	18.4
50°-60°	703.9	13.2
60°-70°	408.1	7.7
70°-80°	242.1	4.5
80°-90°	107.2	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°	1800.3	33.8
0°-40°	2882.4	54.2
0°-60°	4564.7	85.8
0°-90°	5322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5322.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2326	2326	2326	2326	2326	
5°	2325	2321	2320	2316	2324	221
15°	2240	2244	2244	2242	2250	632
25°	2064	2062	2060	2056	2062	949
35°	1750	1742	1745	1724	1738	1091
45°	1302	1279	1266	1254	1243	1000
55°	830	814	774	754	744	743
65°	460	408	354	395	433	464
75°	259	217	191	236	272	274
85°	95	102	100	115	107	101
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2325.5	2325.5	2325.5	2325.5	2325.5
2.5°	2332.2	2323.9	2328.0	2325.5	2324.7
5°	2324.7	2321.4	2319.7	2316.4	2323.9
7.5°	2309.8	2307.3	2308.1	2308.9	2313.9
10°	2294.8	2290.7	2291.5	2293.1	2295.6
12.5°	2271.6	2269.1	2269.9	2271.6	2277.4
15°	2240.0	2244.2	2244.2	2241.7	2250.0
17.5°	2208.5	2207.6	2211.8	2204.3	2215.9
20°	2164.5	2165.3	2164.5	2165.3	2172.8
22.5°	2114.6	2118.8	2116.3	2116.3	2124.6
25°	2064.0	2061.5	2059.8	2055.7	2061.5
27.5°	2003.4	1998.4	1994.3	1986.0	1990.1
30°	1926.2	1927.0	1916.2	1908.7	1907.1
32.5°	1839.8	1839.8	1829.9	1824.1	1829.0
35°	1750.2	1741.9	1745.2	1723.6	1738.5
37.5°	1653.0	1639.7	1632.3	1624.8	1629.8
40°	1541.8	1524.3	1513.5	1498.6	1506.9
42.5°	1424.7	1403.1	1389.8	1379.0	1382.4
45°	1301.8	1279.4	1266.1	1254.5	1242.9
47.5°	1172.3	1158.2	1151.6	1136.6	1123.3
50°	1046.1	1041.1	1025.4	1012.9	985.5
52.5°	930.7	926.6	901.7	880.9	846.0
55°	830.2	814.5	773.8	753.9	743.9
57.5°	728.1	702.4	653.4	650.9	657.6
60°	630.2	598.6	539.7	552.9	578.7
62.5°	541.3	494.0	437.5	469.1	499.8
65°	460.0	408.5	353.7	395.2	432.6
67.5°	392.7	341.2	284.8	340.4	383.6
70°	339.6	287.3	234.1	298.1	338.7
72.5°	295.6	248.2	204.2	264.8	307.2
75°	259.0	216.7	191.0	235.8	272.3
77.5°	222.5	188.5	182.7	210.1	232.5
80°	181.0	165.2	166.9	184.3	192.6
82.5°	135.3	136.2	140.3	154.4	151.1
85°	94.6	102.1	99.6	114.6	107.1
87.5°	52.3	57.3	54.0	65.6	58.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)