

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: P293887

Luminaire Tested: **24GR-LD5-56-A125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293887  
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-5500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5299.0 lumens  
Efficiency: N/A  
Efficacy: 132.2 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

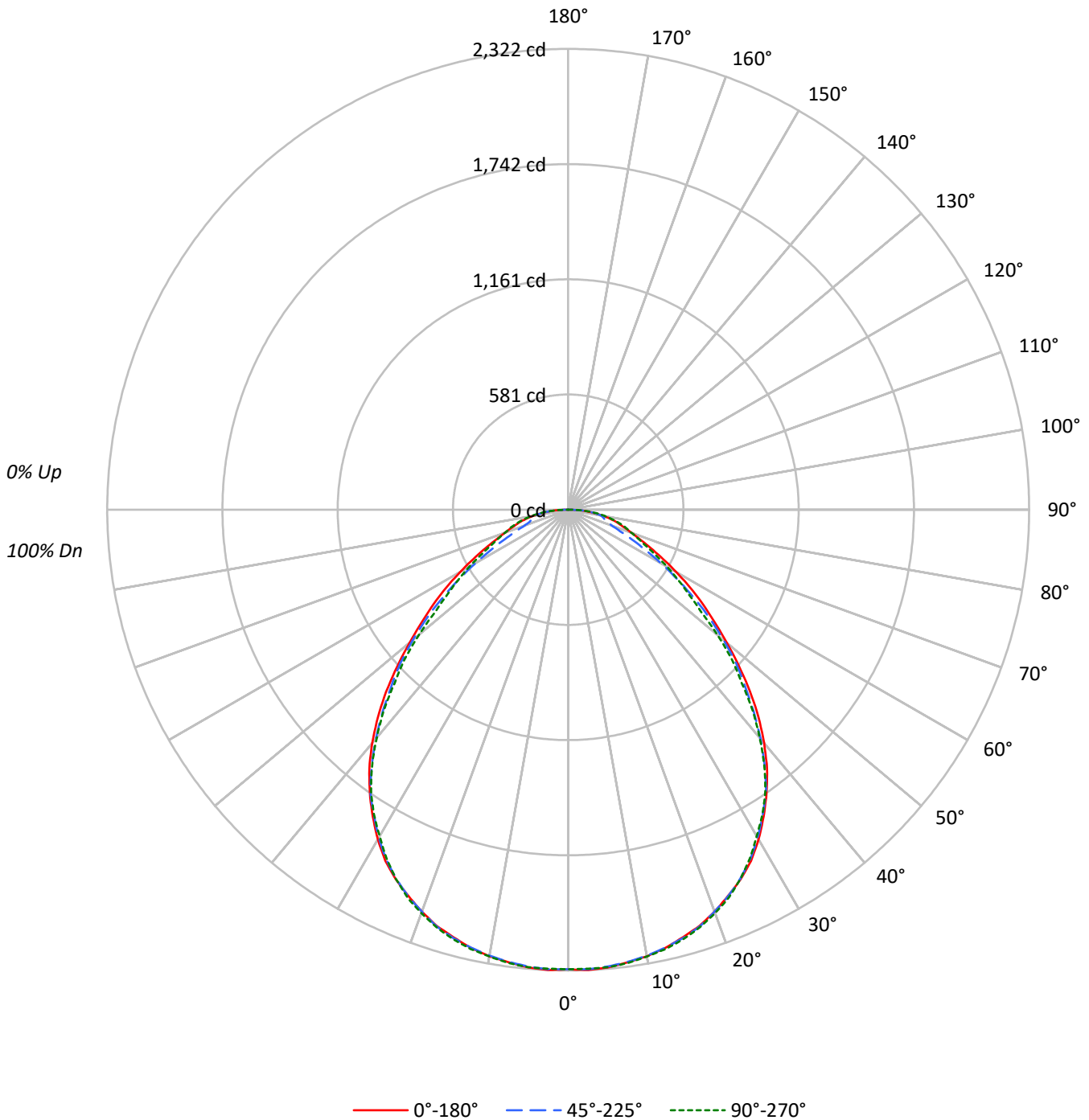
Input Watts (W): 40.083  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3115	3115	3115
5°	3126	3120	3125
10°	3122	3117	3123
15°	3107	3113	3121
20°	3086	3086	3098
25°	3051	3045	3047
30°	2980	2964	2950
35°	2862	2854	2843
40°	2696	2647	2635
45°	2466	2399	2355
50°	2180	2137	2054
55°	1939	1807	1738
60°	1688	1446	1551
65°	1458	1121	1371
70°	1330	917	1327
75°	1341	988	1409
80°	1396	1288	1486
85°	1454	1531	1646



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.6	4.1
10°-20°	629.9	11.9
20°-30°	942.9	17.8
30°-40°	1077.5	20.3
40°-50°	974.1	18.4
50°-60°	700.8	13.2
60°-70°	406.3	7.7
70°-80°	241.0	4.5
80°-90°	106.7	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°	1792.5	33.8
0°-40°	2870.0	54.2
0°-60°	4545.0	85.8
0°-90°	5299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5299.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2316	2316	2316	2316	2316	
5°	2315	2311	2310	2306	2314	220
15°	2230	2234	2234	2232	2240	630
25°	2055	2053	2051	2047	2053	945
35°	1743	1734	1738	1716	1731	1086
45°	1296	1274	1261	1249	1238	996
55°	827	811	770	751	741	740
65°	458	407	352	394	431	462
75°	258	216	190	235	271	273
85°	94	102	99	114	107	101
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2315.5	2315.5	2315.5	2315.5	2315.5
2.5°	2322.1	2313.8	2318.0	2315.5	2314.7
5°	2314.7	2311.3	2309.7	2306.4	2313.8
7.5°	2299.8	2297.3	2298.1	2298.9	2303.9
10°	2284.9	2280.8	2281.6	2283.2	2285.7
12.5°	2261.7	2259.3	2260.1	2261.7	2267.5
15°	2230.3	2234.5	2234.5	2232.0	2240.3
17.5°	2198.9	2198.1	2202.2	2194.8	2206.4
20°	2155.1	2155.9	2155.1	2155.9	2163.4
22.5°	2105.5	2109.6	2107.2	2107.2	2115.4
25°	2055.1	2052.6	2050.9	2046.8	2052.6
27.5°	1994.7	1989.8	1985.6	1977.4	1981.5
30°	1917.9	1918.7	1907.9	1900.5	1898.8
32.5°	1831.9	1831.9	1822.0	1816.2	1821.1
35°	1742.6	1734.3	1737.6	1716.1	1731.0
37.5°	1645.9	1632.7	1625.2	1617.8	1622.7
40°	1535.1	1517.8	1507.0	1492.1	1500.4
42.5°	1418.6	1397.1	1383.8	1373.1	1376.4
45°	1296.2	1273.9	1260.7	1249.1	1237.5
47.5°	1167.2	1153.2	1146.6	1131.7	1118.5
50°	1041.6	1036.6	1020.9	1008.5	981.2
52.5°	926.7	922.6	897.8	877.1	842.4
55°	826.7	811.0	770.4	750.6	740.7
57.5°	725.0	699.4	650.6	648.1	654.7
60°	627.4	596.0	537.3	550.6	576.2
62.5°	539.0	491.9	435.7	467.1	497.7
65°	458.0	406.7	352.2	393.5	430.7
67.5°	391.0	339.8	283.5	338.9	381.9
70°	338.1	286.0	233.1	296.8	337.3
72.5°	294.3	247.2	203.4	263.7	305.9
75°	257.9	215.8	190.1	234.8	271.1
77.5°	221.5	187.7	181.9	209.1	231.5
80°	180.2	164.5	166.2	183.5	191.8
82.5°	134.7	135.6	139.7	153.8	150.5
85°	94.2	101.7	99.2	114.1	106.6
87.5°	52.1	57.0	53.7	65.3	58.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)