

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: P293385

Luminaire Tested: **24GR-LD5-56-F125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293385  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-56-F125-UNV-L92765-W2A1-U-6500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5348.0 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

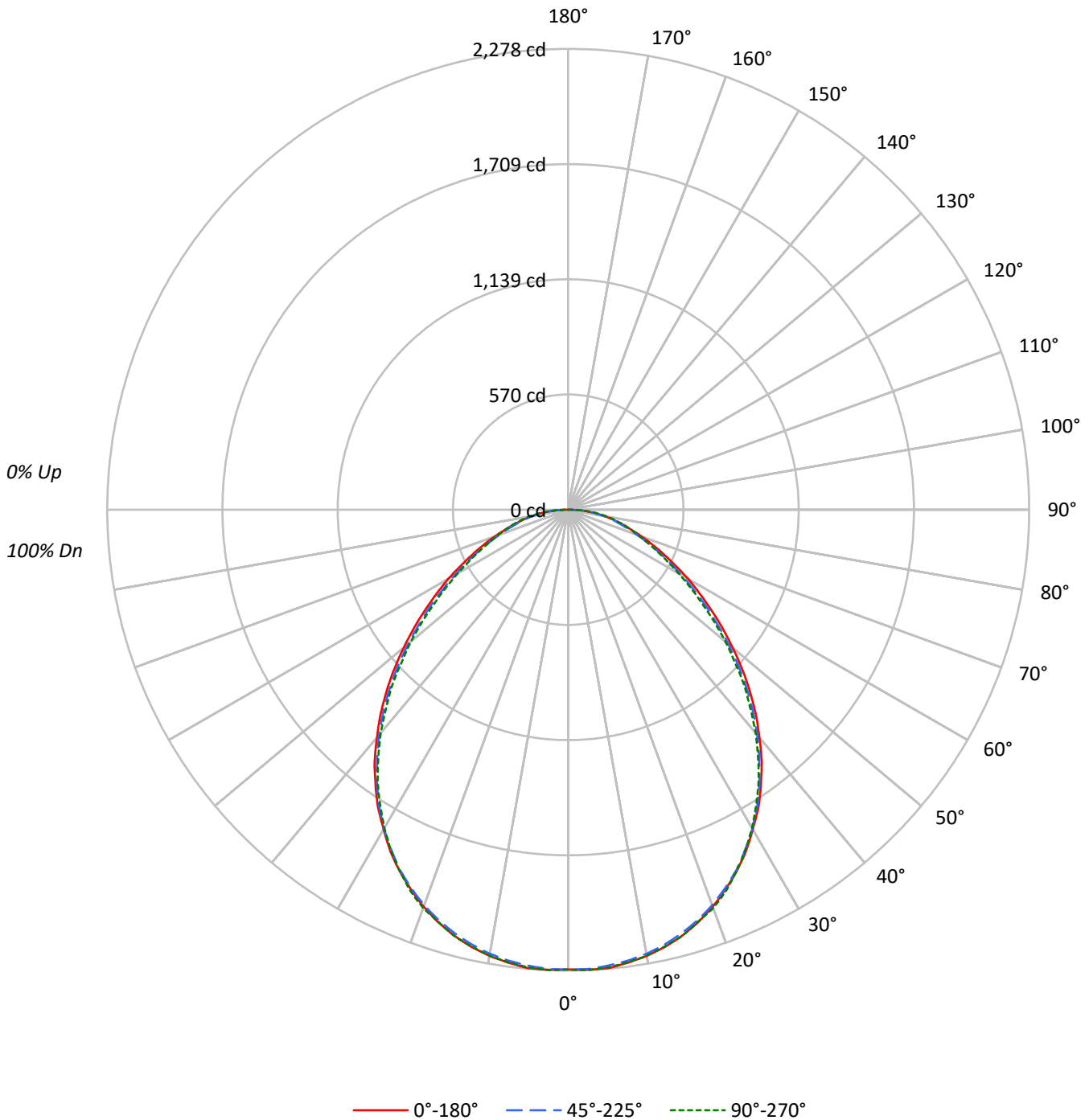
Input Watts (W): 40.827  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3058	3058	3058
5°	3072	3055	3068
10°	3060	3045	3058
15°	3036	3019	3038
20°	2991	2979	3001
25°	2926	2919	2925
30°	2834	2829	2822
35°	2727	2706	2695
40°	2581	2552	2531
45°	2414	2370	2341
50°	2219	2159	2123
55°	2024	1949	1892
60°	1838	1739	1694
65°	1655	1562	1535
70°	1516	1417	1457
75°	1417	1352	1451
80°	1406	1380	1516
85°	1433	1445	1652



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.1	4.0
10°-20°	611.6	11.4
20°-30°	903.5	16.9
30°-40°	1027.2	19.2
40°-50°	959.2	17.9
50°-60°	746.0	13.9
60°-70°	495.0	9.3
70°-80°	286.4	5.4
80°-90°	104.2	1.9
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°	1730.1	32.4
0°-40°	2757.3	51.6
0°-60°	4462.4	83.4
0°-90°	5348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5348.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2273	2273	2273	2273	2273	
5°	2275	2263	2262	2266	2271	216
15°	2179	2168	2168	2167	2181	614
25°	1971	1963	1966	1962	1970	906
35°	1660	1652	1648	1636	1641	1036
45°	1269	1259	1246	1230	1230	978
55°	863	850	831	809	807	774
65°	520	504	491	482	482	520
75°	272	266	260	272	279	291
85°	93	91	94	106	107	101
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2272.9	2272.9	2272.9	2272.9	2272.9
2.5°	2276.2	2269.6	2272.9	2270.4	2277.9
5°	2274.6	2262.9	2262.0	2266.2	2271.2
7.5°	2258.7	2246.1	2248.7	2248.7	2257.0
10°	2239.5	2226.9	2228.6	2229.4	2238.6
12.5°	2213.5	2201.0	2201.8	2201.0	2210.2
15°	2179.3	2168.4	2167.6	2166.7	2180.9
17.5°	2137.5	2122.4	2127.4	2128.3	2135.8
20°	2089.0	2077.3	2080.6	2079.8	2095.7
22.5°	2031.3	2023.0	2025.5	2023.8	2038.8
25°	1971.1	1962.8	1966.1	1961.9	1970.3
27.5°	1903.4	1897.6	1894.2	1891.7	1897.6
30°	1824.0	1820.7	1820.7	1809.8	1816.5
32.5°	1748.8	1737.9	1737.9	1733.7	1729.5
35°	1660.2	1651.8	1647.6	1635.9	1640.9
37.5°	1571.6	1552.3	1550.7	1541.5	1541.5
40°	1469.6	1458.7	1452.8	1442.8	1441.1
42.5°	1372.6	1361.7	1351.7	1335.0	1331.6
45°	1268.9	1258.9	1245.5	1229.7	1230.5
47.5°	1166.1	1151.9	1139.4	1120.1	1117.6
50°	1060.0	1049.9	1031.5	1014.8	1014.0
52.5°	960.5	944.6	927.9	907.8	907.8
55°	862.7	850.1	830.9	809.2	806.7
57.5°	769.1	757.4	735.6	719.7	715.6
60°	683.0	666.2	646.2	632.8	629.5
62.5°	596.9	581.8	566.8	553.4	552.6
65°	519.9	504.1	490.7	481.5	482.3
67.5°	450.6	437.2	422.1	419.6	420.5
70°	385.4	371.2	360.3	366.1	370.3
72.5°	323.5	316.0	308.5	316.8	322.7
75°	272.5	265.8	260.0	271.7	279.2
77.5°	225.7	220.7	219.9	229.9	236.6
80°	181.4	175.5	178.1	189.8	195.6
82.5°	137.9	133.7	134.6	148.8	153.0
85°	92.8	91.1	93.6	106.2	107.0
87.5°	49.3	49.3	51.0	58.5	56.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)