

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: P293316

Luminaire Tested: **24GR-LD5-56-F125-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293316  
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-L93050-W2A1-U-5000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5263.0 lumens  
Efficiency: N/A  
Efficacy: 129.6 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

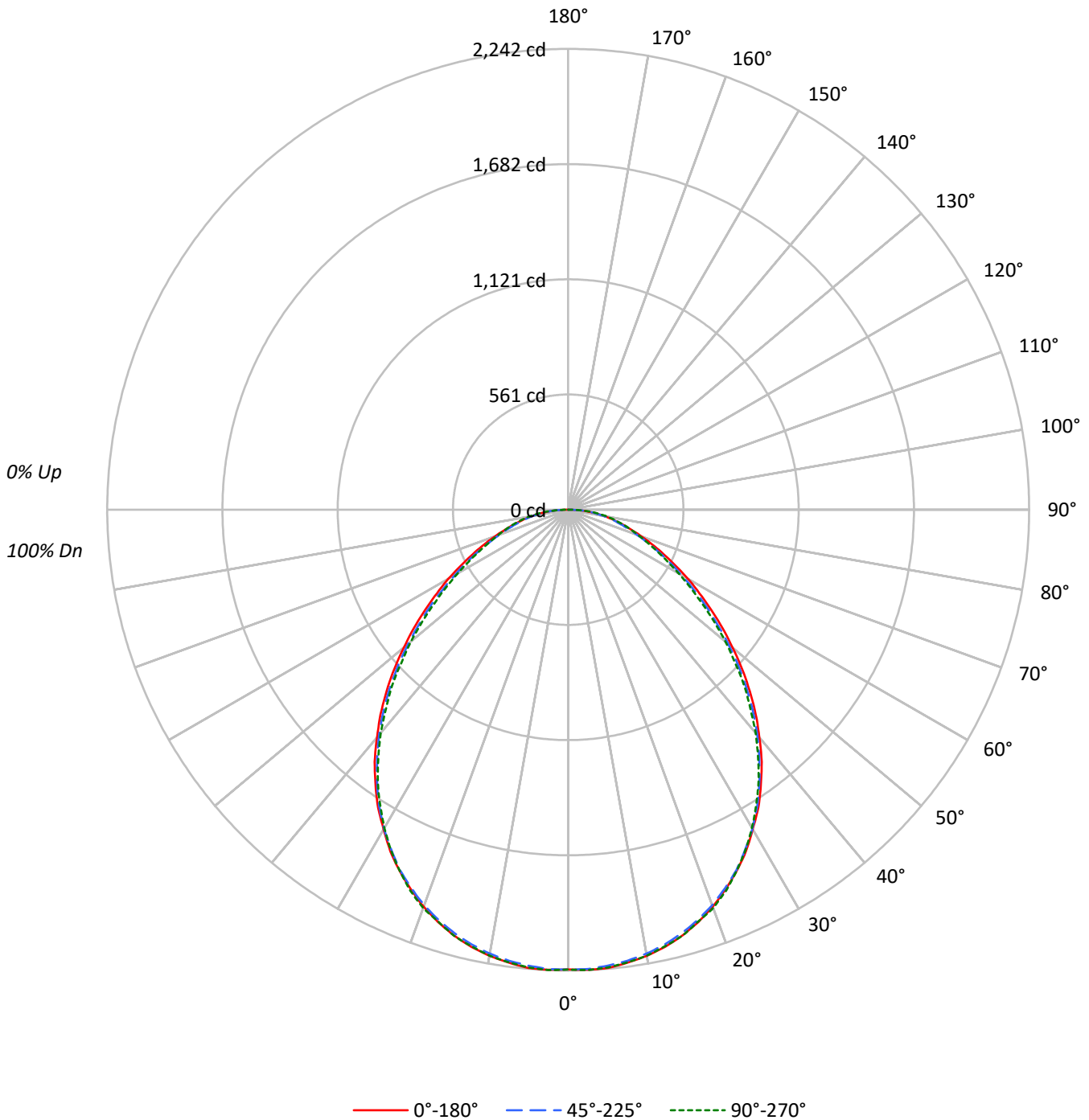
Input Watts (W): 40.603614  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	3010	3010	3010
5°	3023	3007	3019
10°	3011	2996	3010
15°	2987	2971	2990
20°	2944	2932	2953
25°	2880	2873	2879
30°	2789	2784	2777
35°	2684	2663	2653
40°	2540	2511	2491
45°	2376	2332	2304
50°	2183	2125	2089
55°	1992	1918	1862
60°	1809	1711	1667
65°	1629	1537	1511
70°	1492	1395	1434
75°	1394	1330	1429
80°	1383	1358	1492
85°	1409	1422	1626



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.7	4.0
10°-20°	601.8	11.4
20°-30°	889.1	16.9
30°-40°	1010.8	19.2
40°-50°	944.0	17.9
50°-60°	734.1	13.9
60°-70°	487.1	9.3
70°-80°	281.9	5.4
80°-90°	102.5	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°	1702.6	32.4
0°-40°	2713.5	51.6
0°-60°	4391.5	83.4
0°-90°	5263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5263.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2237	2237	2237	2237	2237	
5°	2238	2227	2226	2230	2235	212
15°	2145	2134	2133	2132	2146	604
25°	1940	1932	1935	1931	1939	892
35°	1634	1626	1621	1610	1615	1020
45°	1249	1239	1226	1210	1211	962
55°	849	837	818	796	794	761
65°	512	496	483	474	475	511
75°	268	262	256	267	275	287
85°	91	90	92	104	105	99
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2236.8	2236.8	2236.8	2236.8	2236.8
2.5°	2240.1	2233.5	2236.8	2234.3	2241.7
5°	2238.4	2226.9	2226.1	2230.2	2235.1
7.5°	2222.8	2210.4	2212.9	2212.9	2221.1
10°	2203.9	2191.5	2193.2	2194.0	2203.0
12.5°	2178.4	2166.0	2166.8	2166.0	2175.1
15°	2144.6	2133.9	2133.1	2132.3	2146.3
17.5°	2103.5	2088.7	2093.6	2094.5	2101.9
20°	2055.8	2044.3	2047.6	2046.7	2062.4
22.5°	1999.0	1990.8	1993.3	1991.6	2006.4
25°	1939.8	1931.6	1934.9	1930.8	1939.0
27.5°	1873.2	1867.4	1864.1	1861.6	1867.4
30°	1795.0	1791.7	1791.7	1781.0	1787.6
32.5°	1721.0	1710.3	1710.3	1706.2	1702.1
35°	1633.8	1625.5	1621.4	1609.9	1614.9
37.5°	1546.6	1527.7	1526.0	1517.0	1517.0
40°	1446.2	1435.5	1429.8	1419.9	1418.2
42.5°	1350.8	1340.1	1330.2	1313.8	1310.5
45°	1248.8	1238.9	1225.7	1210.1	1210.9
47.5°	1147.6	1133.6	1121.3	1102.3	1099.9
50°	1043.1	1033.2	1015.1	998.7	997.9
52.5°	945.2	929.6	913.1	893.4	893.4
55°	849.0	836.6	817.7	796.3	793.9
57.5°	756.8	745.3	723.9	708.3	704.2
60°	672.1	655.6	635.9	622.7	619.5
62.5°	587.4	572.6	557.8	544.6	543.8
65°	511.7	496.1	482.9	473.8	474.7
67.5°	443.4	430.2	415.4	413.0	413.8
70°	379.2	365.3	354.6	360.3	364.4
72.5°	318.4	311.0	303.6	311.8	317.5
75°	268.2	261.6	255.8	267.4	274.8
77.5°	222.1	217.2	216.4	226.2	232.8
80°	178.5	172.8	175.2	186.7	192.5
82.5°	135.7	131.6	132.4	146.4	150.5
85°	91.3	89.7	92.1	104.5	105.3
87.5°	48.5	48.5	50.2	57.6	55.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)