

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: P293373

Luminaire Tested: **24GR-LD5-48-F125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293373  
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-LD5-48-F125-UNV-L92765-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: 4482.0 lumens  
Efficiency: N/A  
Efficacy: 133.5 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

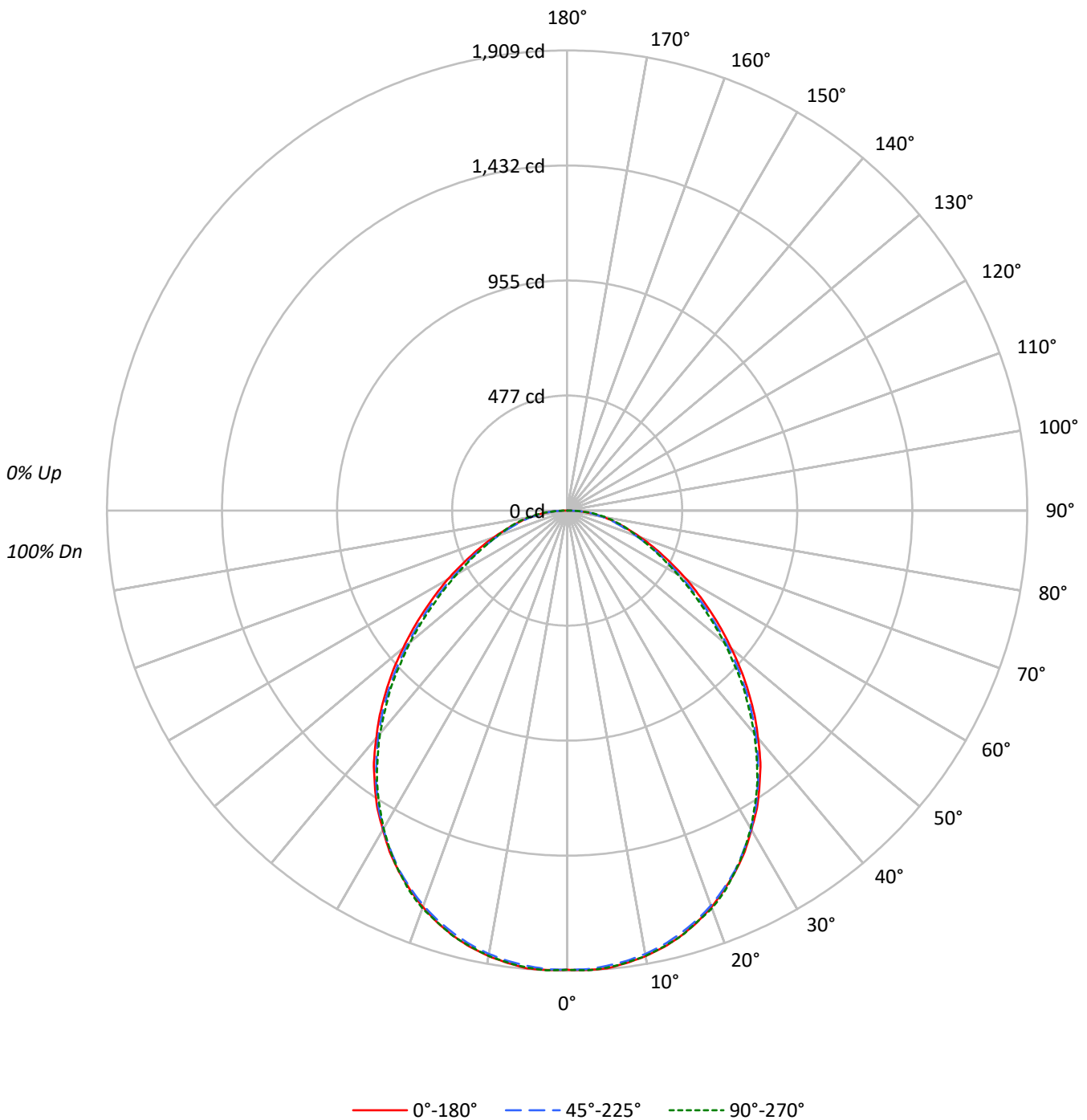
Input Watts (W): 33.573  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2563	2563	2563
5°	2575	2560	2571
10°	2564	2552	2563
15°	2544	2530	2546
20°	2507	2497	2515
25°	2452	2446	2451
30°	2375	2371	2365
35°	2285	2268	2259
40°	2163	2139	2121
45°	2024	1986	1962
50°	1859	1810	1779
55°	1696	1634	1586
60°	1540	1457	1419
65°	1387	1309	1287
70°	1271	1188	1221
75°	1187	1133	1216
80°	1178	1156	1270
85°	1201	1212	1385



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.3	4.0
10°-20°	512.5	11.4
20°-30°	757.2	16.9
30°-40°	860.8	19.2
40°-50°	803.9	17.9
50°-60°	625.2	13.9
60°-70°	414.8	9.3
70°-80°	240.1	5.4
80°-90°	87.3	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°	1450.0	32.4
0°-40°	2310.8	51.6
0°-60°	3739.8	83.4
0°-90°	4482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4482.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1905	1905	1905	1905	1905	
5°	1906	1896	1896	1899	1903	181
15°	1826	1817	1817	1816	1828	515
25°	1652	1645	1648	1644	1651	760
35°	1391	1384	1381	1371	1375	869
45°	1064	1055	1044	1030	1031	819
55°	723	712	696	678	676	648
65°	436	422	411	404	404	436
75°	228	223	218	228	234	244
85°	78	76	78	89	90	85
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1904.8	1904.8	1904.8	1904.8	1904.8
2.5°	1907.7	1902.0	1904.8	1902.7	1909.1
5°	1906.3	1896.4	1895.7	1899.2	1903.4
7.5°	1892.9	1882.4	1884.5	1884.5	1891.5
10°	1876.8	1866.3	1867.7	1868.4	1876.1
12.5°	1855.1	1844.6	1845.3	1844.6	1852.3
15°	1826.4	1817.3	1816.6	1815.9	1827.8
17.5°	1791.4	1778.7	1783.0	1783.7	1790.0
20°	1750.7	1740.9	1743.7	1743.0	1756.3
22.5°	1702.4	1695.4	1697.5	1696.1	1708.7
25°	1651.9	1644.9	1647.7	1644.2	1651.2
27.5°	1595.2	1590.3	1587.5	1585.4	1590.3
30°	1528.6	1525.8	1525.8	1516.7	1522.3
32.5°	1465.6	1456.5	1456.5	1453.0	1449.5
35°	1391.3	1384.3	1380.8	1371.0	1375.2
37.5°	1317.1	1301.0	1299.6	1291.9	1291.9
40°	1231.6	1222.5	1217.6	1209.2	1207.8
42.5°	1150.3	1141.2	1132.8	1118.8	1116.0
45°	1063.5	1055.1	1043.8	1030.5	1031.2
47.5°	977.3	965.4	954.9	938.8	936.7
50°	888.3	879.9	864.5	850.5	849.8
52.5°	805.0	791.6	777.6	760.8	760.8
55°	723.0	712.5	696.4	678.2	676.0
57.5°	644.5	634.7	616.5	603.2	599.7
60°	572.4	558.4	541.5	530.3	527.5
62.5°	500.2	487.6	475.0	463.8	463.1
65°	435.8	422.4	411.2	403.5	404.2
67.5°	377.6	366.4	353.8	351.7	352.4
70°	323.0	311.1	301.9	306.8	310.4
72.5°	271.1	264.8	258.5	265.5	270.4
75°	228.4	222.8	217.9	227.7	234.0
77.5°	189.2	185.0	184.2	192.7	198.3
80°	152.0	147.1	149.2	159.0	163.9
82.5°	115.6	112.1	112.8	124.7	128.2
85°	77.8	76.4	78.5	89.0	89.7
87.5°	41.3	41.3	42.7	49.0	46.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)