

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: P293240

Luminaire Tested: **24GR-LD5-42-F125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293240  
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-LD5-42-F125-UNV-L82765-W2A1-U-5700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4370.0 lumens  
Efficiency: N/A  
Efficacy: 152.1 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

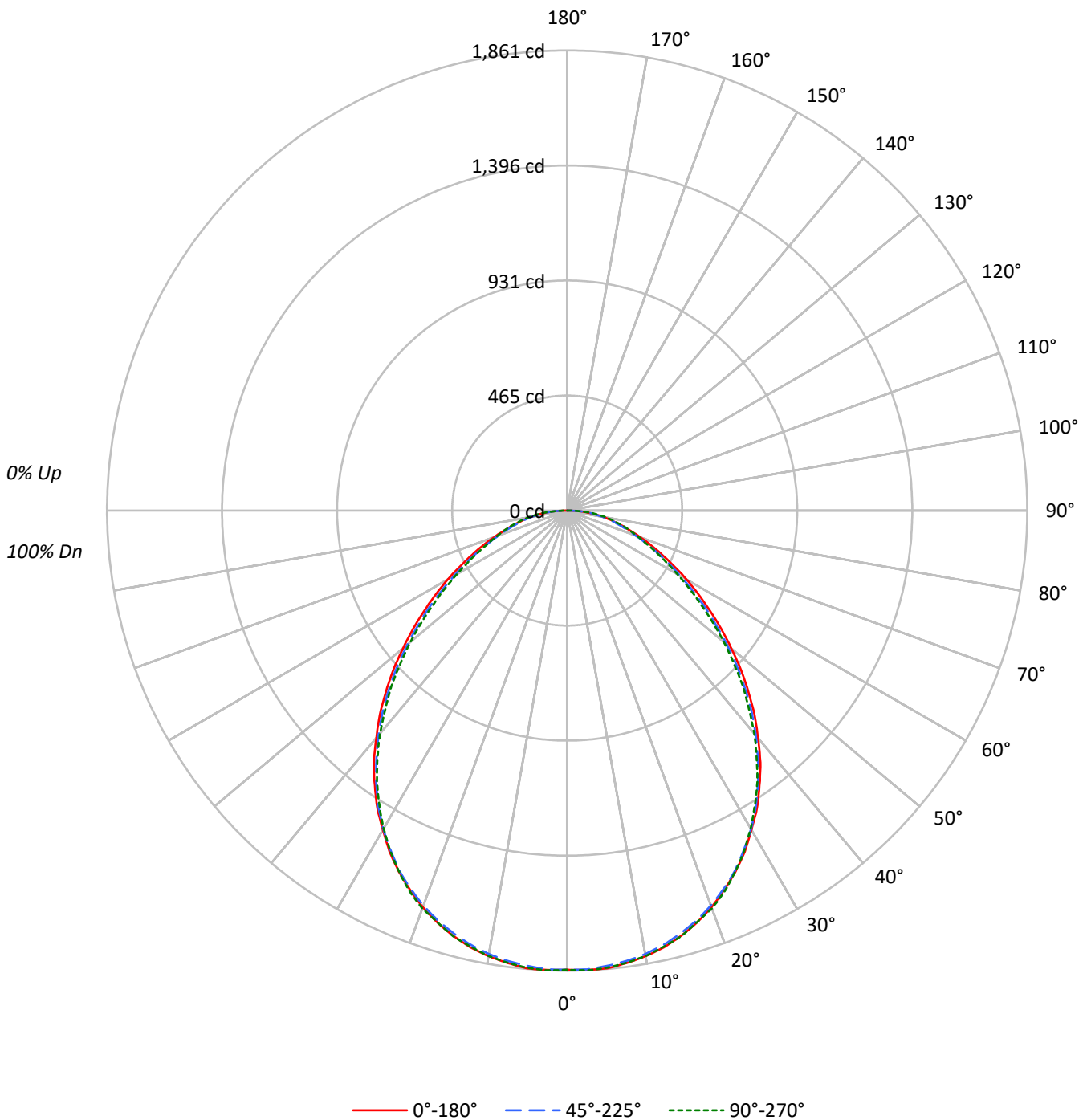
Input Watts (W): 28.737  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2499	2499	2499
5°	2510	2497	2507
10°	2500	2488	2499
15°	2480	2467	2482
20°	2444	2434	2452
25°	2391	2385	2390
30°	2316	2311	2306
35°	2228	2211	2202
40°	2109	2085	2068
45°	1973	1937	1913
50°	1813	1764	1734
55°	1654	1593	1546
60°	1502	1421	1384
65°	1353	1277	1255
70°	1239	1158	1190
75°	1158	1104	1186
80°	1148	1127	1238
85°	1170	1181	1349



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.8	4.0
10°-20°	499.7	11.4
20°-30°	738.2	16.9
30°-40°	839.3	19.2
40°-50°	783.8	17.9
50°-60°	609.5	13.9
60°-70°	404.4	9.3
70°-80°	234.0	5.4
80°-90°	85.1	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°	1413.7	32.4
0°-40°	2253.1	51.6
0°-60°	3646.4	83.4
0°-90°	4370.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4370.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1857	1857	1857	1857	1857	
5°	1859	1849	1848	1852	1856	176
15°	1781	1772	1771	1770	1782	502
25°	1611	1604	1607	1603	1610	741
35°	1357	1350	1346	1337	1341	847
45°	1037	1029	1018	1005	1006	799
55°	705	695	679	661	659	632
65°	425	412	401	393	394	425
75°	223	217	212	222	228	238
85°	76	74	76	87	87	82
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1857.2	1857.2	1857.2	1857.2	1857.2
2.5°	1860.0	1854.5	1857.2	1855.2	1861.3
5°	1858.6	1849.1	1848.4	1851.8	1855.9
7.5°	1845.6	1835.4	1837.4	1837.4	1844.3
10°	1829.9	1819.7	1821.0	1821.7	1829.2
12.5°	1808.8	1798.5	1799.2	1798.5	1806.0
15°	1780.7	1771.9	1771.2	1770.5	1782.1
17.5°	1746.6	1734.3	1738.4	1739.1	1745.2
20°	1707.0	1697.4	1700.1	1699.5	1712.4
22.5°	1659.8	1653.0	1655.1	1653.7	1666.0
25°	1610.7	1603.8	1606.6	1603.1	1610.0
27.5°	1555.3	1550.6	1547.8	1545.8	1550.6
30°	1490.4	1487.7	1487.7	1478.8	1484.3
32.5°	1429.0	1420.1	1420.1	1416.7	1413.3
35°	1356.6	1349.7	1346.3	1336.8	1340.9
37.5°	1284.2	1268.4	1267.1	1259.6	1259.6
40°	1200.8	1191.9	1187.2	1179.0	1177.6
42.5°	1121.6	1112.7	1104.5	1090.9	1088.1
45°	1036.9	1028.7	1017.8	1004.8	1005.5
47.5°	952.9	941.3	931.0	915.3	913.3
50°	866.1	857.9	842.9	829.2	828.6
52.5°	784.8	771.9	758.2	741.8	741.8
55°	704.9	694.7	679.0	661.2	659.2
57.5°	628.4	618.9	601.1	588.1	584.7
60°	558.1	544.4	528.0	517.1	514.3
62.5°	487.7	475.4	463.1	452.2	451.5
65°	424.9	411.9	401.0	393.4	394.1
67.5°	368.2	357.2	344.9	342.9	343.6
70°	314.9	303.3	294.4	299.2	302.6
72.5°	264.3	258.2	252.1	258.9	263.7
75°	222.7	217.2	212.4	222.0	228.1
77.5°	184.4	180.3	179.6	187.8	193.3
80°	148.2	143.4	145.5	155.1	159.8
82.5°	112.7	109.3	110.0	121.6	125.0
85°	75.8	74.5	76.5	86.7	87.4
87.5°	40.3	40.3	41.7	47.8	45.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)