

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: P293367

Luminaire Tested: **24GR-LD5-42-F125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293367  
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-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: 3979.0 lumens  
Efficiency: N/A  
Efficacy: 135.8 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

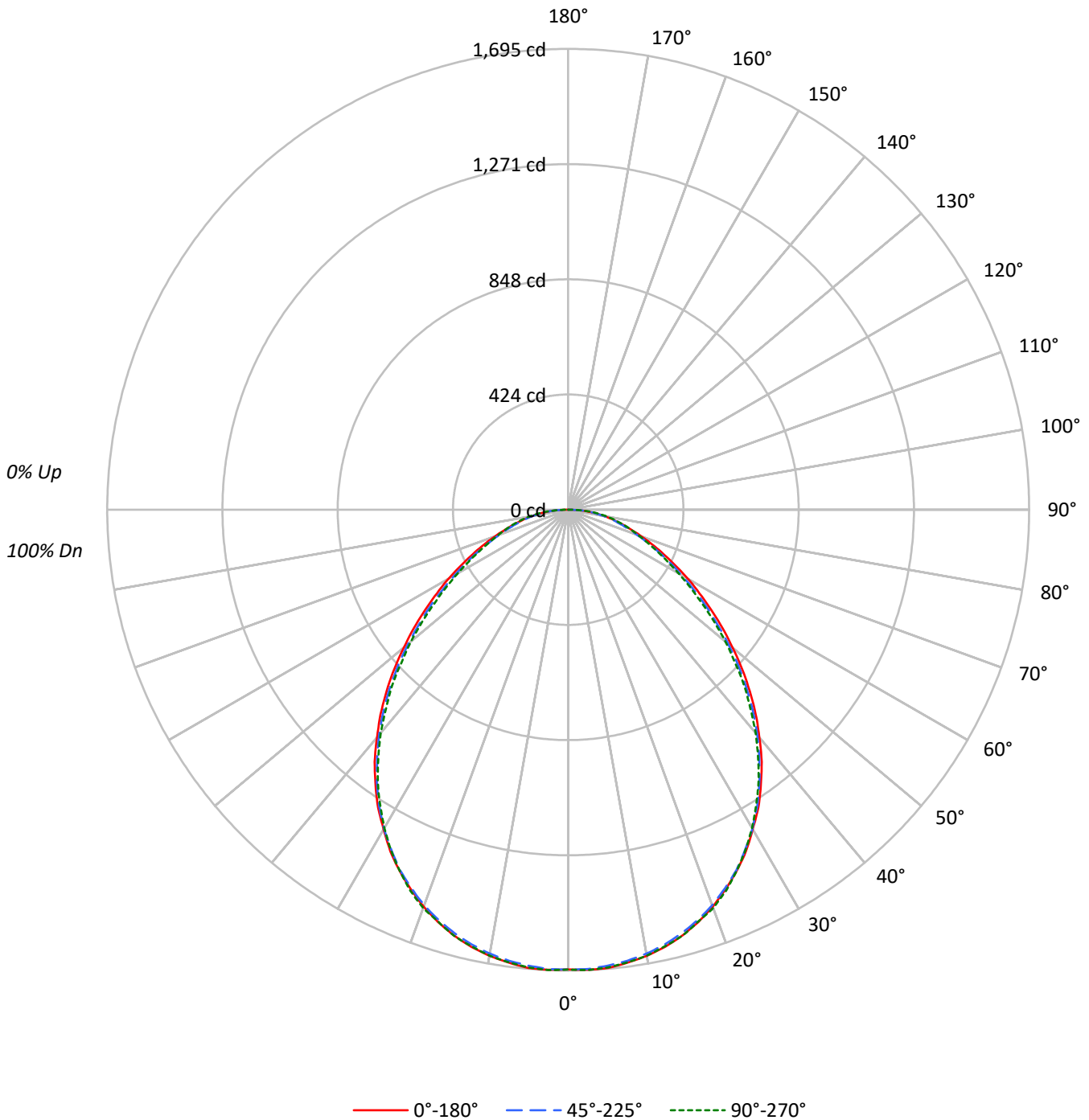
Input Watts (W): 29.295  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	73	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°	2275	2275	2275
5°	2286	2273	2282
10°	2276	2265	2276
15°	2259	2246	2260
20°	2225	2216	2233
25°	2177	2172	2176
30°	2108	2105	2100
35°	2029	2014	2005
40°	1920	1899	1883
45°	1796	1763	1742
50°	1651	1607	1579
55°	1506	1450	1408
60°	1367	1294	1260
65°	1232	1162	1143
70°	1128	1055	1084
75°	1054	1005	1080
80°	1046	1027	1127
85°	1065	1076	1229



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.0	4.0
10°-20°	455.0	11.4
20°-30°	672.2	16.9
30°-40°	764.2	19.2
40°-50°	713.7	17.9
50°-60°	555.0	13.9
60°-70°	368.3	9.3
70°-80°	213.1	5.4
80°-90°	77.5	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°	1287.2	32.4
0°-40°	2051.5	51.6
0°-60°	3320.1	83.4
0°-90°	3979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3979.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1691	1691	1691	1691	1691	
5°	1692	1684	1683	1686	1690	161
15°	1621	1613	1613	1612	1623	457
25°	1467	1460	1463	1460	1466	674
35°	1235	1229	1226	1217	1221	771
45°	944	937	927	915	916	727
55°	642	632	618	602	600	576
65°	387	375	365	358	359	387
75°	203	198	193	202	208	217
85°	69	68	70	79	80	75
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1691.1	1691.1	1691.1	1691.1	1691.1
2.5°	1693.6	1688.6	1691.1	1689.2	1694.8
5°	1692.3	1683.6	1683.0	1686.1	1689.8
7.5°	1680.5	1671.2	1673.0	1673.0	1679.3
10°	1666.2	1656.9	1658.1	1658.7	1665.6
12.5°	1646.9	1637.6	1638.2	1637.6	1644.4
15°	1621.4	1613.3	1612.7	1612.1	1622.7
17.5°	1590.3	1579.1	1582.9	1583.5	1589.1
20°	1554.2	1545.5	1548.0	1547.4	1559.2
22.5°	1511.3	1505.1	1507.0	1505.7	1516.9
25°	1466.6	1460.3	1462.8	1459.7	1465.9
27.5°	1416.2	1411.8	1409.3	1407.5	1411.8
30°	1357.1	1354.6	1354.6	1346.5	1351.5
32.5°	1301.1	1293.0	1293.0	1289.9	1286.8
35°	1235.2	1229.0	1225.9	1217.2	1220.9
37.5°	1169.3	1155.0	1153.7	1146.9	1146.9
40°	1093.4	1085.3	1080.9	1073.5	1072.2
42.5°	1021.2	1013.2	1005.7	993.2	990.8
45°	944.1	936.7	926.7	914.9	915.5
47.5°	867.6	857.0	847.7	833.4	831.5
50°	788.6	781.2	767.5	755.0	754.4
52.5°	714.6	702.8	690.4	675.4	675.4
55°	641.8	632.5	618.2	602.0	600.2
57.5°	572.2	563.5	547.3	535.5	532.4
60°	508.1	495.7	480.8	470.8	468.3
62.5°	444.1	432.9	421.7	411.7	411.1
65°	386.9	375.0	365.1	358.2	358.9
67.5°	335.2	325.3	314.1	312.2	312.8
70°	286.7	276.1	268.1	272.4	275.5
72.5°	240.7	235.1	229.5	235.7	240.1
75°	202.8	197.8	193.4	202.1	207.7
77.5°	167.9	164.2	163.6	171.0	176.0
80°	135.0	130.6	132.5	141.2	145.5
82.5°	102.6	99.5	100.1	110.7	113.8
85°	69.0	67.8	69.7	79.0	79.6
87.5°	36.7	36.7	37.9	43.5	41.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)