

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: P293368

Luminaire Tested: **24GR-LD5-48-F125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293368  
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-2700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3800.0 lumens  
Efficiency: N/A  
Efficacy: 116.1 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

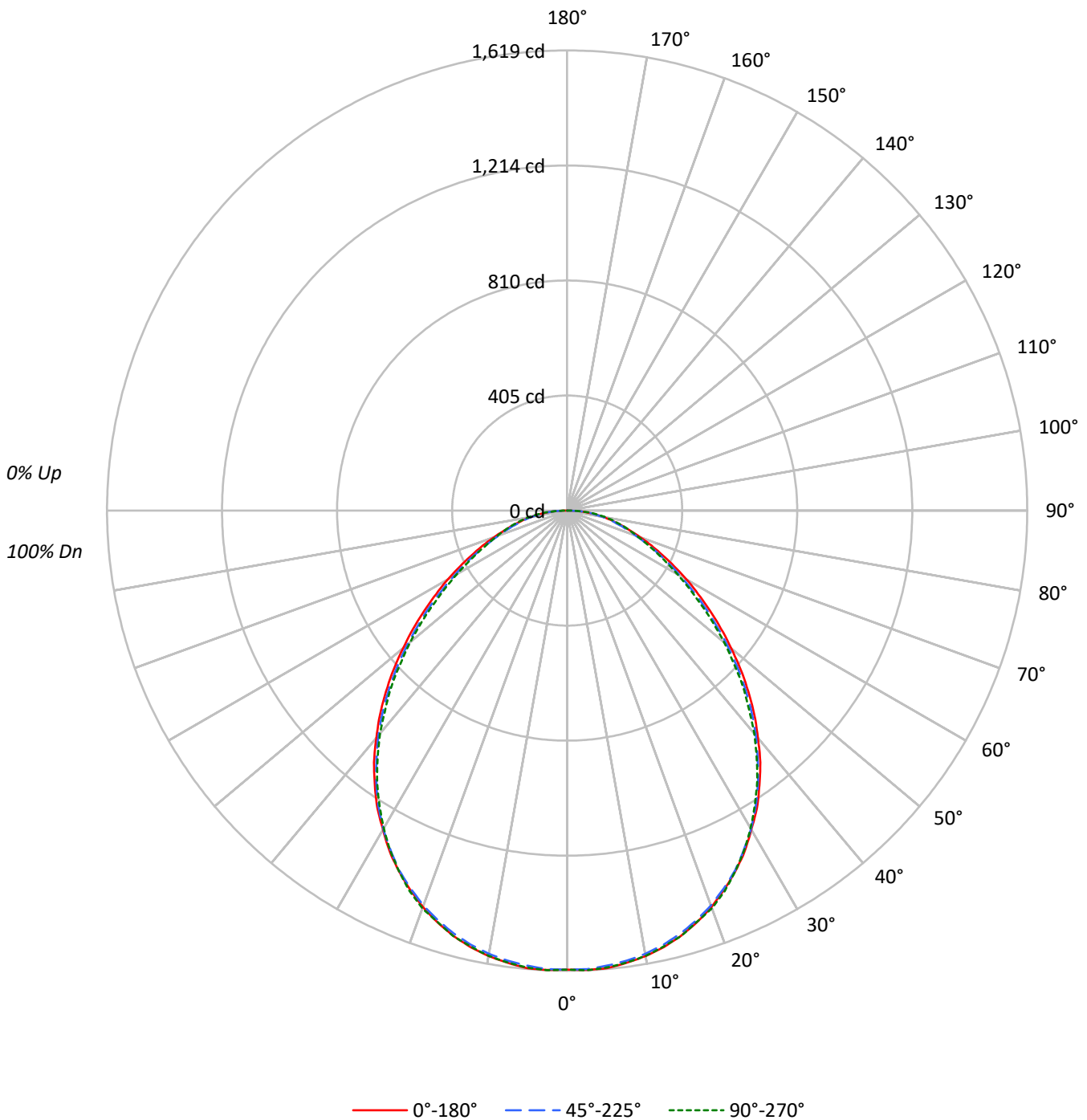
Input Watts (W): 32.736  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2173	2173	2173
5°	2183	2171	2180
10°	2174	2163	2173
15°	2157	2145	2159
20°	2125	2117	2132
25°	2079	2074	2078
30°	2014	2010	2005
35°	1938	1923	1915
40°	1834	1813	1799
45°	1716	1684	1664
50°	1577	1534	1508
55°	1438	1385	1345
60°	1306	1235	1204
65°	1176	1110	1091
70°	1077	1007	1035
75°	1006	960	1031
80°	999	980	1077
85°	1017	1027	1173



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.8	4.0
10°-20°	434.5	11.4
20°-30°	641.9	16.9
30°-40°	729.8	19.2
40°-50°	681.6	17.9
50°-60°	530.0	13.9
60°-70°	351.7	9.3
70°-80°	203.5	5.4
80°-90°	74.0	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°	1229.3	32.4
0°-40°	1959.2	51.6
0°-60°	3170.8	83.4
0°-90°	3800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3800.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1615	1615	1615	1615	1615	
5°	1616	1608	1607	1610	1614	153
15°	1548	1541	1540	1540	1550	436
25°	1401	1395	1397	1394	1400	644
35°	1180	1174	1171	1162	1166	736
45°	902	894	885	874	874	695
55°	613	604	590	575	573	550
65°	369	358	349	342	343	369
75°	194	189	185	193	198	207
85°	66	65	66	75	76	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1615.0	1615.0	1615.0	1615.0	1615.0
2.5°	1617.4	1612.6	1615.0	1613.2	1618.6
5°	1616.2	1607.9	1607.3	1610.2	1613.8
7.5°	1604.9	1596.0	1597.8	1597.8	1603.7
10°	1591.2	1582.3	1583.5	1584.1	1590.6
12.5°	1572.8	1563.9	1564.5	1563.9	1570.5
15°	1548.5	1540.8	1540.2	1539.6	1549.7
17.5°	1518.8	1508.1	1511.6	1512.2	1517.6
20°	1484.3	1476.0	1478.4	1477.8	1489.1
22.5°	1443.3	1437.4	1439.2	1438.0	1448.7
25°	1400.6	1394.6	1397.0	1394.0	1400.0
27.5°	1352.5	1348.3	1345.9	1344.2	1348.3
30°	1296.0	1293.7	1293.7	1285.9	1290.7
32.5°	1242.6	1234.9	1234.9	1231.9	1228.9
35°	1179.6	1173.7	1170.7	1162.4	1166.0
37.5°	1116.7	1103.0	1101.8	1095.3	1095.3
40°	1044.2	1036.5	1032.3	1025.2	1024.0
42.5°	975.3	967.6	960.4	948.6	946.2
45°	901.6	894.5	885.0	873.7	874.3
47.5°	828.6	818.5	809.6	795.9	794.1
50°	753.2	746.0	733.0	721.1	720.5
52.5°	682.5	671.2	659.3	645.0	645.0
55°	613.0	604.1	590.4	575.0	573.2
57.5°	546.5	538.1	522.7	511.4	508.4
60°	485.3	473.4	459.1	449.6	447.3
62.5°	424.1	413.4	402.7	393.2	392.6
65°	369.4	358.2	348.7	342.1	342.7
67.5°	320.1	310.6	300.0	298.2	298.8
70°	273.8	263.7	256.0	260.2	263.1
72.5°	229.9	224.5	219.2	225.1	229.3
75°	193.6	188.9	184.7	193.0	198.4
77.5°	160.4	156.8	156.2	163.3	168.1
80°	128.9	124.7	126.5	134.8	139.0
82.5°	98.0	95.0	95.6	105.7	108.7
85°	65.9	64.7	66.5	75.4	76.0
87.5°	35.0	35.0	36.2	41.6	39.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)