

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: P293731

Luminaire Tested: **24GR-LD5-38-A125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293731  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-38-A125-UNV-L82765-W2A1-U-4000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3848.0 lumens  
Efficiency: N/A  
Efficacy: 149.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

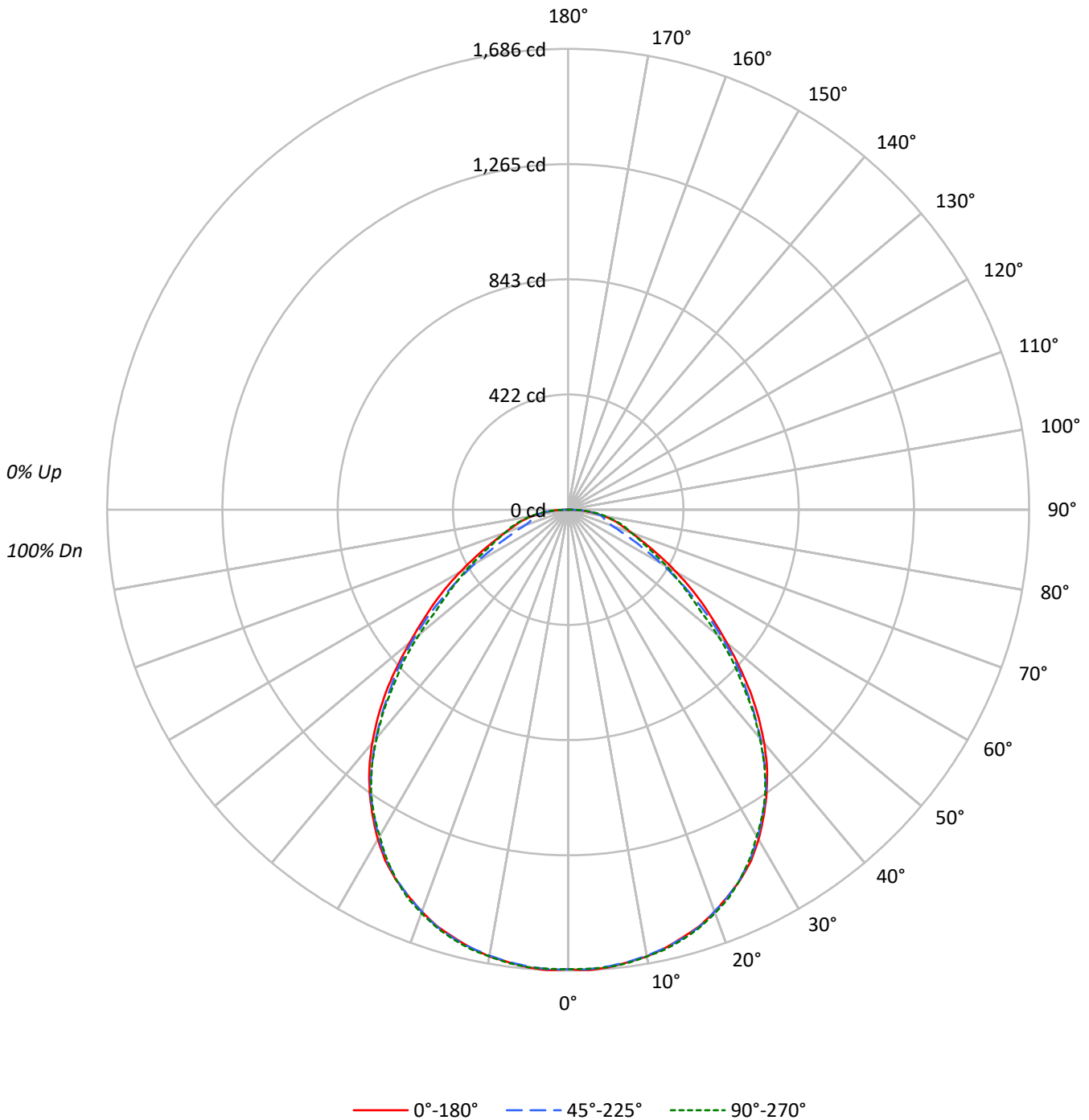
Input Watts (W): 25.668  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74				74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64				64
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55				55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49				49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43				43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39				39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35				35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32				32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29				29

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

	0°	45°	90°
0°	2262	2262	2262
5°	2270	2265	2269
10°	2267	2264	2268
15°	2256	2260	2266
20°	2241	2241	2249
25°	2215	2211	2213
30°	2164	2153	2142
35°	2078	2073	2065
40°	1958	1922	1914
45°	1791	1742	1710
50°	1583	1552	1492
55°	1408	1312	1262
60°	1226	1050	1126
65°	1059	814	996
70°	966	666	963
75°	974	718	1024
80°	1014	935	1079
85°	1056	1112	1195



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.5	4.1
10°-20°	457.4	11.9
20°-30°	684.7	17.8
30°-40°	782.4	20.3
40°-50°	707.4	18.4
50°-60°	508.9	13.2
60°-70°	295.0	7.7
70°-80°	175.0	4.5
80°-90°	77.5	2.0
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°	1301.7	33.8
0°-40°	2084.1	54.2
0°-60°	3300.4	85.8
0°-90°	3848.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3848.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1681	1681	1681	1681	1681	
5°	1681	1678	1677	1675	1680	160
15°	1620	1623	1623	1621	1627	457
25°	1492	1490	1489	1486	1490	686
35°	1265	1259	1262	1246	1257	789
45°	941	925	916	907	899	723
55°	600	589	560	545	538	537
65°	333	295	256	286	313	336
75°	187	157	138	170	197	198
85°	68	74	72	83	77	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1681.4	1681.4	1681.4	1681.4	1681.4
2.5°	1686.2	1680.2	1683.2	1681.4	1680.8
5°	1680.8	1678.4	1677.2	1674.8	1680.2
7.5°	1670.0	1668.2	1668.8	1669.4	1673.0
10°	1659.2	1656.2	1656.8	1658.0	1659.8
12.5°	1642.4	1640.6	1641.2	1642.4	1646.6
15°	1619.6	1622.6	1622.6	1620.8	1626.8
17.5°	1596.8	1596.2	1599.2	1593.8	1602.2
20°	1565.0	1565.6	1565.0	1565.6	1571.0
22.5°	1529.0	1532.0	1530.2	1530.2	1536.2
25°	1492.3	1490.5	1489.3	1486.3	1490.5
27.5°	1448.5	1444.9	1441.9	1435.9	1438.9
30°	1392.7	1393.3	1385.5	1380.1	1378.9
32.5°	1330.3	1330.3	1323.1	1318.9	1322.5
35°	1265.4	1259.4	1261.8	1246.2	1257.0
37.5°	1195.2	1185.6	1180.2	1174.8	1178.4
40°	1114.8	1102.2	1094.3	1083.5	1089.5
42.5°	1030.1	1014.5	1004.9	997.1	999.5
45°	941.3	925.1	915.5	907.1	898.7
47.5°	847.6	837.4	832.6	821.8	812.2
50°	756.4	752.8	741.4	732.4	712.6
52.5°	672.9	669.9	651.9	636.9	611.7
55°	600.3	588.9	559.5	545.1	537.9
57.5°	526.5	507.9	472.4	470.6	475.4
60°	455.6	432.8	390.2	399.8	418.4
62.5°	391.4	357.2	316.4	339.2	361.4
65°	332.6	295.3	255.7	285.7	312.8
67.5°	283.9	246.7	205.9	246.1	277.3
70°	245.5	207.7	169.3	215.5	244.9
72.5°	213.7	179.5	147.7	191.5	222.1
75°	187.3	156.7	138.1	170.5	196.9
77.5°	160.9	136.3	132.1	151.9	168.1
80°	130.9	119.5	120.7	133.3	139.3
82.5°	97.8	98.4	101.5	111.7	109.3
85°	68.4	73.8	72.0	82.8	77.4
87.5°	37.8	41.4	39.0	47.4	42.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)