

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: P293861

Luminaire Tested: **24GR-LD5-38-A125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293861  
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-L92765-W2A1-U-5700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3634.0 lumens  
Efficiency: N/A  
Efficacy: 139.1 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

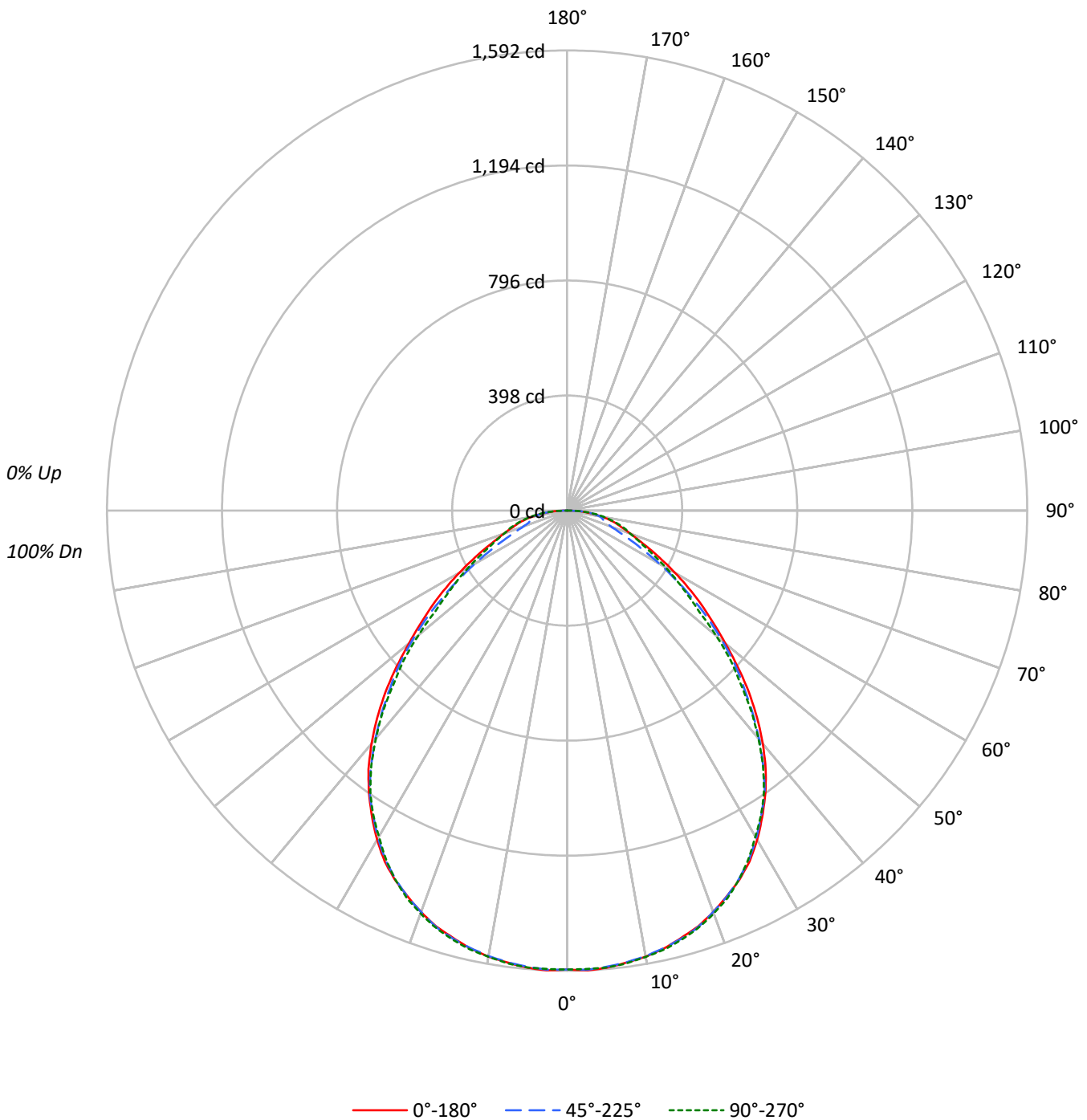
Input Watts (W): 26.133  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	2137	2137	2137
5°	2144	2139	2143
10°	2141	2138	2142
15°	2131	2135	2140
20°	2116	2116	2124
25°	2092	2088	2090
30°	2043	2033	2023
35°	1963	1957	1950
40°	1849	1815	1807
45°	1691	1645	1615
50°	1495	1465	1409
55°	1330	1240	1192
60°	1158	992	1063
65°	1000	769	940
70°	912	629	910
75°	920	678	966
80°	958	883	1019
85°	997	1050	1129



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.6	4.1
10°-20°	432.0	11.9
20°-30°	646.7	17.8
30°-40°	738.9	20.3
40°-50°	668.0	18.4
50°-60°	480.6	13.2
60°-70°	278.6	7.7
70°-80°	165.3	4.5
80°-90°	73.2	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°	1229.3	33.8
0°-40°	1968.2	54.2
0°-60°	3116.9	85.8
0°-90°	3634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3634.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1587	1585	1584	1582	1587	151
15°	1530	1532	1532	1531	1536	432
25°	1409	1408	1406	1404	1408	648
35°	1195	1189	1192	1177	1187	745
45°	889	874	864	857	849	683
55°	567	556	528	515	508	507
65°	314	279	242	270	295	317
75°	177	148	130	161	186	187
85°	65	70	68	78	73	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1587.9	1587.9	1587.9	1587.9	1587.9
2.5°	1592.5	1586.8	1589.6	1587.9	1587.4
5°	1587.4	1585.1	1584.0	1581.7	1586.8
7.5°	1577.2	1575.5	1576.0	1576.6	1580.0
10°	1567.0	1564.1	1564.7	1565.8	1567.5
12.5°	1551.1	1549.4	1549.9	1551.1	1555.1
15°	1529.5	1532.4	1532.4	1530.7	1536.3
17.5°	1508.0	1507.4	1510.3	1505.2	1513.1
20°	1478.0	1478.5	1478.0	1478.5	1483.6
22.5°	1443.9	1446.8	1445.1	1445.1	1450.7
25°	1409.4	1407.7	1406.5	1403.7	1407.7
27.5°	1368.0	1364.6	1361.7	1356.1	1358.9
30°	1315.2	1315.8	1308.4	1303.3	1302.2
32.5°	1256.3	1256.3	1249.5	1245.5	1248.9
35°	1195.1	1189.4	1191.7	1176.9	1187.1
37.5°	1128.7	1119.7	1114.6	1109.5	1112.9
40°	1052.8	1040.9	1033.5	1023.3	1029.0
42.5°	972.8	958.1	949.0	941.6	943.9
45°	888.9	873.6	864.5	856.6	848.7
47.5°	800.5	790.8	786.3	776.1	767.0
50°	714.3	710.9	700.1	691.6	672.9
52.5°	635.5	632.7	615.7	601.5	577.7
55°	566.9	556.1	528.4	514.8	508.0
57.5°	497.2	479.6	446.2	444.5	449.0
60°	430.3	408.7	368.5	377.6	395.1
62.5°	369.6	337.3	298.8	320.3	341.3
65°	314.1	278.9	241.5	269.9	295.4
67.5°	268.2	233.0	194.5	232.4	261.9
70°	231.9	196.2	159.9	203.5	231.3
72.5°	201.8	169.5	139.5	180.8	209.8
75°	176.9	148.0	130.4	161.0	185.9
77.5°	151.9	128.7	124.7	143.4	158.7
80°	123.6	112.8	114.0	125.9	131.5
82.5°	92.4	93.0	95.8	105.4	103.2
85°	64.6	69.7	68.0	78.2	73.1
87.5°	35.7	39.1	36.8	44.8	40.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)