

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: P293729

Luminaire Tested: **24GR-LD5-38-A125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293729  
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-3000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3640.0 lumens  
Efficiency: N/A  
Efficacy: 144.4 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

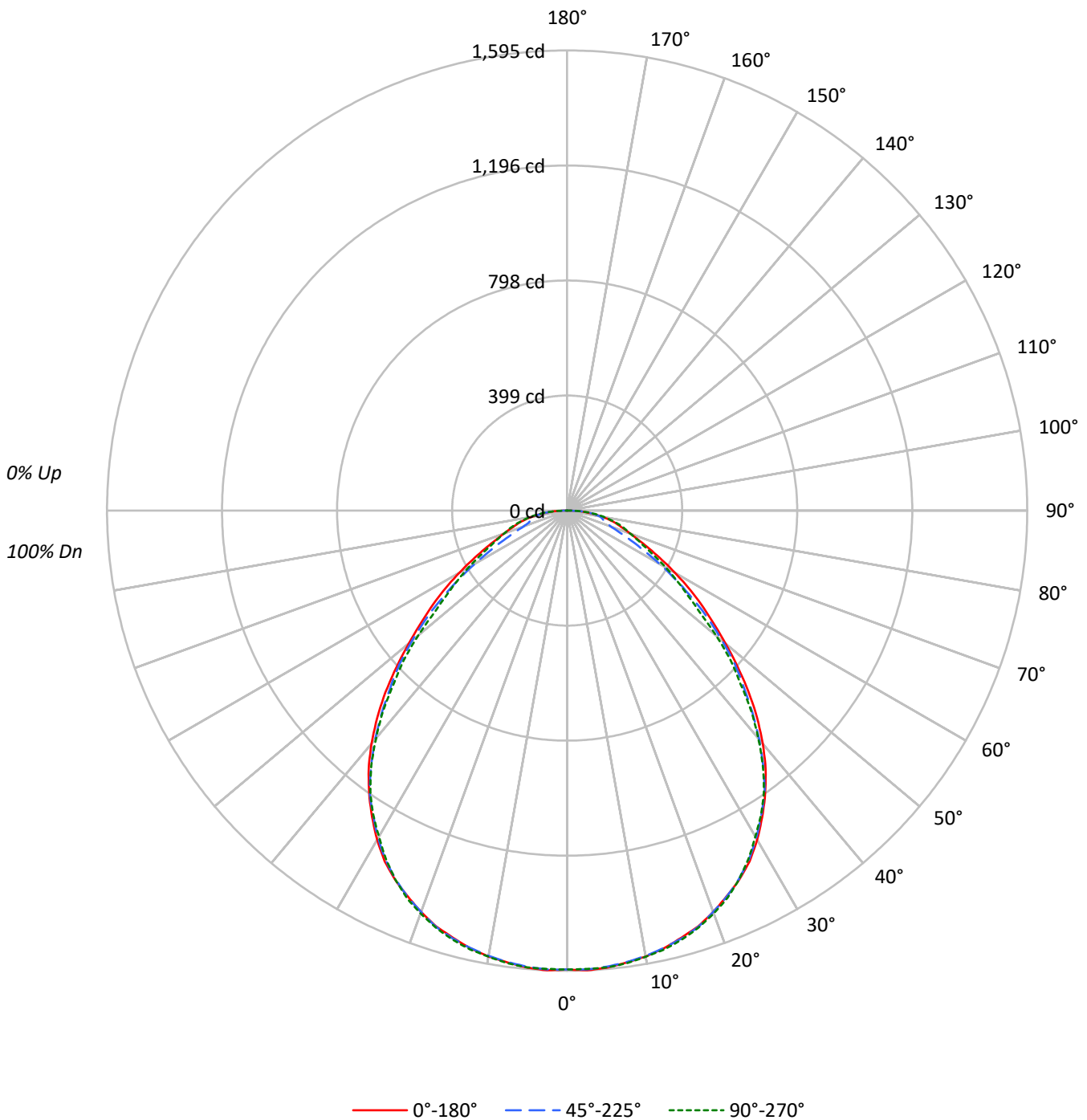
Input Watts (W): 25.203  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2140	2140	2140
5°	2148	2143	2147
10°	2144	2141	2145
15°	2134	2138	2144
20°	2120	2120	2128
25°	2096	2091	2093
30°	2047	2036	2027
35°	1966	1961	1953
40°	1852	1818	1810
45°	1694	1648	1618
50°	1498	1468	1411
55°	1332	1241	1194
60°	1160	993	1065
65°	1002	770	942
70°	914	630	911
75°	921	679	968
80°	959	884	1020
85°	999	1051	1132



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.9	4.1
10°-20°	432.7	11.9
20°-30°	647.7	17.8
30°-40°	740.1	20.3
40°-50°	669.2	18.4
50°-60°	481.4	13.2
60°-70°	279.1	7.7
70°-80°	165.6	4.5
80°-90°	73.3	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°	1231.3	33.8
0°-40°	1971.5	54.2
0°-60°	3122.0	85.8
0°-90°	3640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3640.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1591	1591	1591	1591	1591	
5°	1590	1588	1587	1584	1589	151
15°	1532	1535	1535	1533	1539	433
25°	1412	1410	1409	1406	1410	649
35°	1197	1191	1194	1179	1189	746
45°	890	875	866	858	850	684
55°	568	557	529	516	509	508
65°	315	279	242	270	296	318
75°	177	148	131	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°	1590.6	1590.6	1590.6	1590.6	1590.6
2.5°	1595.1	1589.4	1592.3	1590.6	1590.0
5°	1590.0	1587.7	1586.6	1584.3	1589.4
7.5°	1579.8	1578.1	1578.6	1579.2	1582.6
10°	1569.5	1566.7	1567.3	1568.4	1570.1
12.5°	1553.6	1551.9	1552.5	1553.6	1557.6
15°	1532.1	1534.9	1534.9	1533.2	1538.9
17.5°	1510.5	1509.9	1512.8	1507.6	1515.6
20°	1480.4	1481.0	1480.4	1481.0	1486.1
22.5°	1446.3	1449.2	1447.5	1447.5	1453.1
25°	1411.7	1410.0	1408.8	1406.0	1410.0
27.5°	1370.2	1366.8	1364.0	1358.3	1361.1
30°	1317.4	1318.0	1310.6	1305.5	1304.4
32.5°	1258.4	1258.4	1251.5	1247.6	1251.0
35°	1197.0	1191.4	1193.6	1178.9	1189.1
37.5°	1130.6	1121.5	1116.4	1111.3	1114.7
40°	1054.5	1042.6	1035.2	1025.0	1030.7
42.5°	974.4	959.7	950.6	943.2	945.5
45°	890.4	875.1	866.0	858.0	850.1
47.5°	801.8	792.2	787.6	777.4	768.3
50°	715.5	712.1	701.3	692.8	674.0
52.5°	636.6	633.7	616.7	602.5	578.6
55°	567.9	557.1	529.2	515.6	508.8
57.5°	498.0	480.4	446.9	445.2	449.7
60°	431.0	409.4	369.1	378.2	395.8
62.5°	370.2	337.9	299.3	320.8	341.8
65°	314.6	279.4	241.9	270.3	295.9
67.5°	268.6	233.4	194.8	232.8	262.3
70°	232.3	196.5	160.1	203.9	231.7
72.5°	202.2	169.8	139.7	181.1	210.1
75°	177.2	148.2	130.6	161.3	186.3
77.5°	152.2	128.9	124.9	143.7	159.0
80°	123.8	113.0	114.1	126.1	131.7
82.5°	92.6	93.1	96.0	105.6	103.3
85°	64.7	69.8	68.1	78.4	73.3
87.5°	35.8	39.2	36.9	44.9	40.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)