

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: P293358

Luminaire Tested: **24GR-LD5-38-F125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293358  
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-LD5-38-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: 3652.0 lumens  
Efficiency: N/A  
Efficacy: 137.3 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

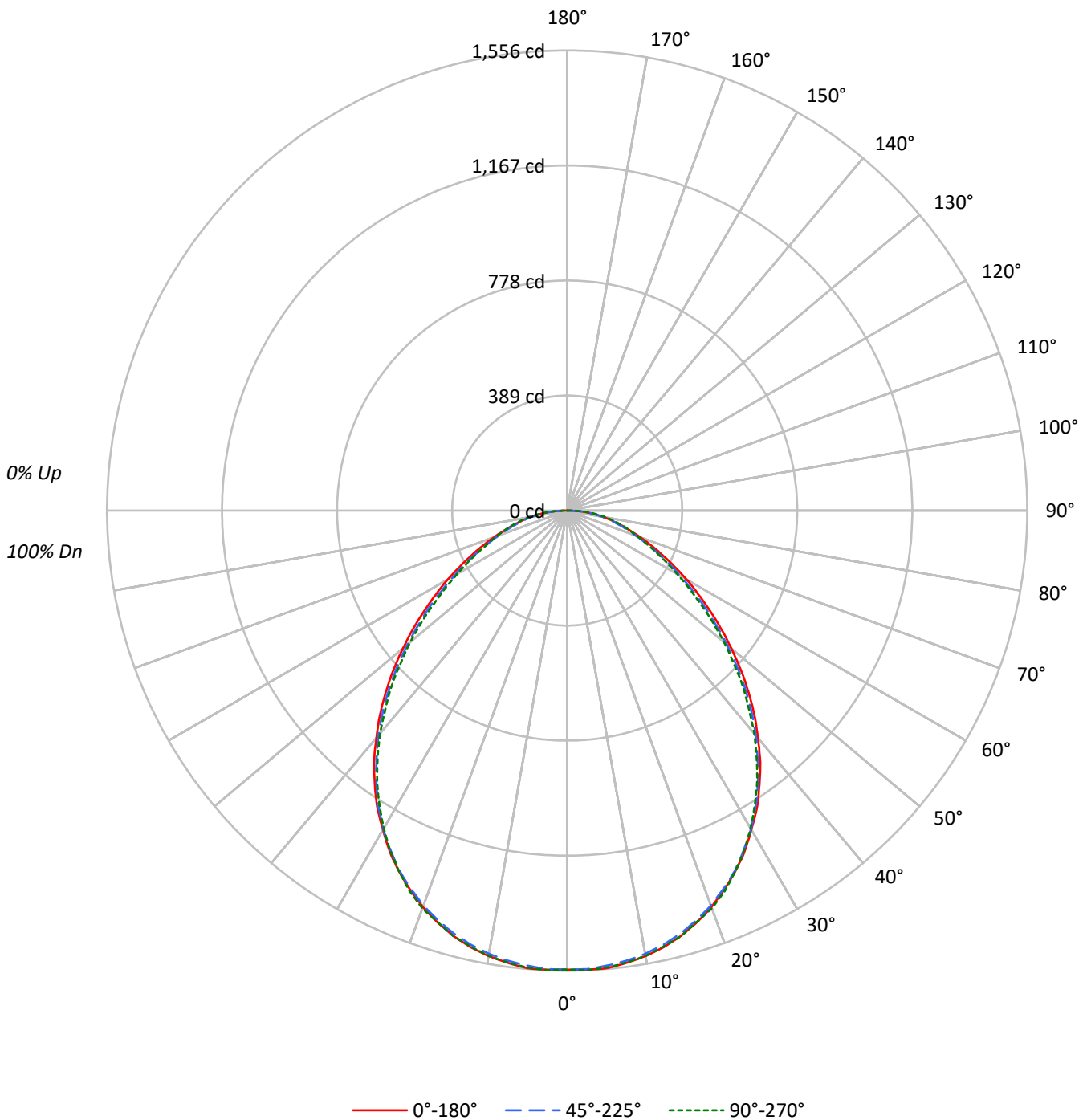
Input Watts (W): 26.598  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	72	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°	2088	2088	2088
5°	2098	2086	2095
10°	2089	2079	2089
15°	2073	2062	2075
20°	2043	2034	2049
25°	1998	1993	1998
30°	1935	1932	1927
35°	1862	1848	1840
40°	1763	1743	1728
45°	1649	1618	1599
50°	1515	1474	1449
55°	1382	1331	1292
60°	1255	1188	1157
65°	1131	1067	1049
70°	1035	968	995
75°	967	923	991
80°	960	942	1035
85°	979	986	1129



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.9	4.0
10°-20°	417.6	11.4
20°-30°	616.9	16.9
30°-40°	701.4	19.2
40°-50°	655.0	17.9
50°-60°	509.4	13.9
60°-70°	338.0	9.3
70°-80°	195.6	5.4
80°-90°	71.1	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°	1181.5	32.4
0°-40°	1882.9	51.6
0°-60°	3047.3	83.4
0°-90°	3652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3652.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1553	1545	1545	1548	1551	147
15°	1488	1481	1480	1480	1489	419
25°	1346	1340	1343	1340	1346	619
35°	1134	1128	1125	1117	1120	708
45°	866	860	850	840	840	668
55°	589	580	567	553	551	528
65°	355	344	335	329	329	355
75°	186	182	178	186	191	199
85°	63	62	64	72	73	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1552.1	1552.1	1552.1	1552.1	1552.1
2.5°	1554.4	1549.8	1552.1	1550.4	1555.5
5°	1553.2	1545.2	1544.7	1547.5	1551.0
7.5°	1542.4	1533.8	1535.5	1535.5	1541.3
10°	1529.3	1520.7	1521.8	1522.4	1528.7
12.5°	1511.6	1503.0	1503.6	1503.0	1509.3
15°	1488.2	1480.7	1480.2	1479.6	1489.3
17.5°	1459.6	1449.3	1452.8	1453.3	1458.5
20°	1426.5	1418.5	1420.8	1420.2	1431.1
22.5°	1387.1	1381.4	1383.1	1382.0	1392.3
25°	1346.0	1340.3	1342.6	1339.7	1345.5
27.5°	1299.8	1295.8	1293.5	1291.8	1295.8
30°	1245.6	1243.3	1243.3	1235.9	1240.4
32.5°	1194.2	1186.8	1186.8	1183.9	1181.1
35°	1133.7	1128.0	1125.1	1117.1	1120.5
37.5°	1073.2	1060.0	1058.9	1052.6	1052.6
40°	1003.5	996.1	992.1	985.3	984.1
42.5°	937.3	929.9	923.0	911.6	909.3
45°	866.5	859.7	850.5	839.7	840.3
47.5°	796.3	786.6	778.0	764.9	763.2
50°	723.8	717.0	704.4	693.0	692.4
52.5°	655.9	645.0	633.6	619.9	619.9
55°	589.1	580.5	567.4	552.6	550.9
57.5°	525.2	517.2	502.3	491.5	488.6
60°	466.4	455.0	441.3	432.1	429.8
62.5°	407.6	397.3	387.0	377.9	377.3
65°	355.1	344.2	335.1	328.8	329.4
67.5°	307.7	298.5	288.3	286.6	287.1
70°	263.2	253.5	246.0	250.0	252.9
72.5°	220.9	215.8	210.6	216.3	220.3
75°	186.1	181.5	177.5	185.5	190.7
77.5°	154.1	150.7	150.1	157.0	161.5
80°	123.9	119.9	121.6	129.6	133.6
82.5°	94.2	91.3	91.9	101.6	104.5
85°	63.4	62.2	63.9	72.5	73.1
87.5°	33.7	33.7	34.8	40.0	38.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)