

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: P293226

Luminaire Tested: **24GR-LD5-38-F125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293226
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-L82765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3758.0 lumens
Efficiency: N/A
Efficacy: 147.5 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

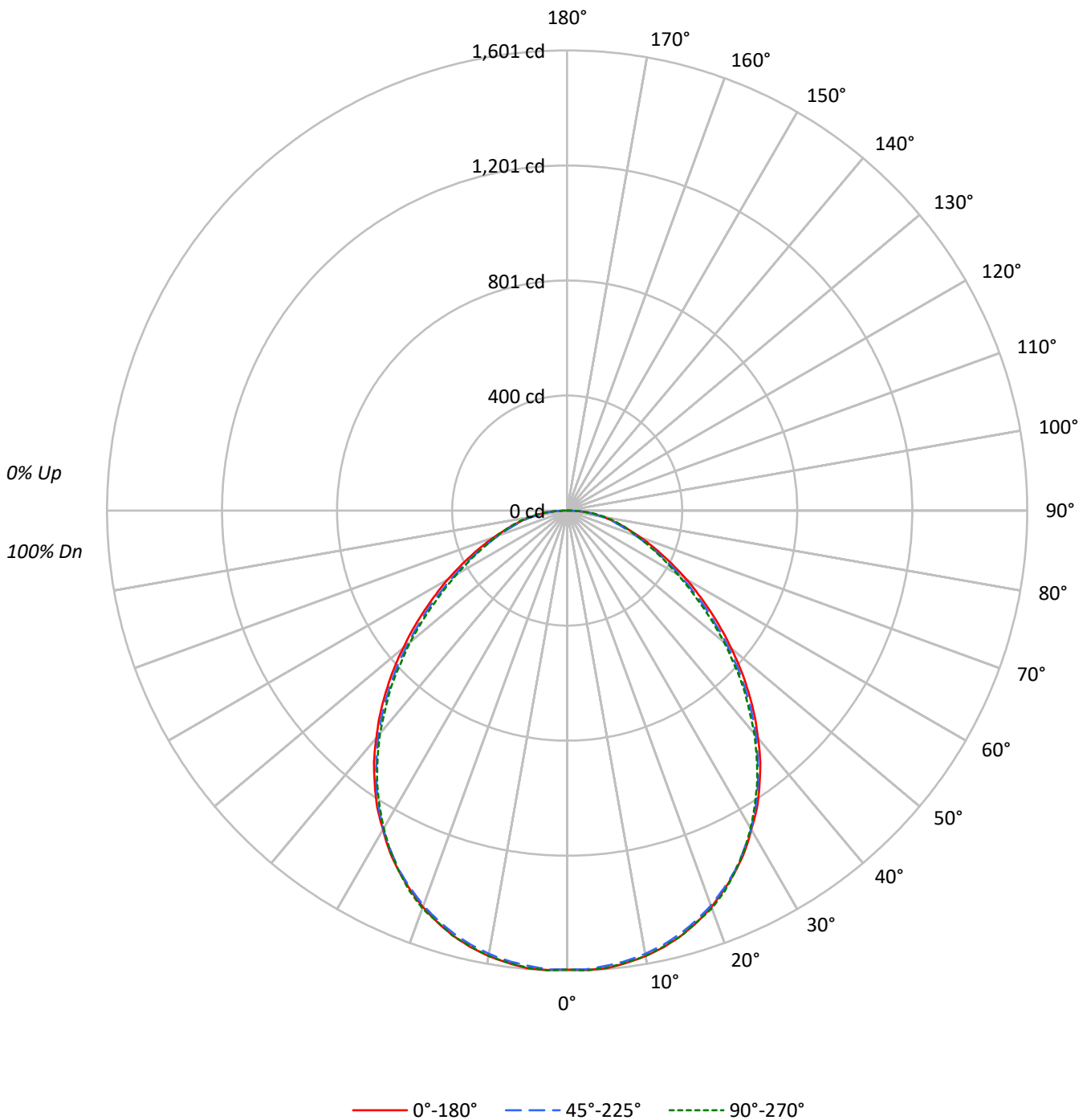
Input Watts (W): 25.482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2149	2149	2149
5°	2159	2147	2156
10°	2150	2140	2149
15°	2133	2122	2135
20°	2102	2093	2109
25°	2056	2051	2055
30°	1991	1988	1983
35°	1916	1902	1894
40°	1814	1793	1779
45°	1697	1665	1645
50°	1559	1517	1491
55°	1422	1370	1330
60°	1291	1222	1190
65°	1163	1098	1079
70°	1065	996	1024
75°	996	950	1020
80°	988	969	1065
85°	1007	1016	1161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	4.0
10°-20°	429.7	11.4
20°-30°	634.9	16.9
30°-40°	721.8	19.2
40°-50°	674.0	17.9
50°-60°	524.2	13.9
60°-70°	347.8	9.3
70°-80°	201.3	5.4
80°-90°	73.2	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°	1215.7	32.4
0°-40°	1937.5	51.6
0°-60°	3135.7	83.4
0°-90°	3758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1597	1597	1597	1597	1597	
5°	1598	1590	1590	1592	1596	152
15°	1531	1524	1523	1522	1532	431
25°	1385	1379	1382	1379	1384	637
35°	1167	1161	1158	1150	1153	728
45°	892	885	875	864	865	687
55°	606	597	584	569	567	544
65°	365	354	345	338	339	365
75°	192	187	183	191	196	205
85°	65	64	66	75	75	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1597.1	1597.1	1597.1	1597.1	1597.1
2.5°	1599.5	1594.8	1597.1	1595.4	1600.7
5°	1598.3	1590.1	1589.5	1592.5	1596.0
7.5°	1587.2	1578.4	1580.1	1580.1	1586.0
10°	1573.7	1564.8	1566.0	1566.6	1573.1
12.5°	1555.4	1546.6	1547.2	1546.6	1553.1
15°	1531.4	1523.7	1523.1	1522.5	1532.5
17.5°	1502.0	1491.4	1494.9	1495.5	1500.8
20°	1467.9	1459.7	1462.0	1461.5	1472.6
22.5°	1427.4	1421.5	1423.3	1422.1	1432.7
25°	1385.1	1379.2	1381.6	1378.6	1384.5
27.5°	1337.5	1333.4	1331.1	1329.3	1333.4
30°	1281.7	1279.4	1279.4	1271.7	1276.4
32.5°	1228.8	1221.2	1221.2	1218.3	1215.3
35°	1166.6	1160.7	1157.8	1149.5	1153.1
37.5°	1104.3	1090.8	1089.6	1083.2	1083.2
40°	1032.7	1025.0	1020.9	1013.9	1012.7
42.5°	964.5	956.9	949.8	938.1	935.7
45°	891.7	884.6	875.2	864.1	864.7
47.5°	819.4	809.4	800.6	787.1	785.4
50°	744.8	737.8	724.9	713.1	712.5
52.5°	674.9	663.8	652.0	637.9	637.9
55°	606.2	597.4	583.9	568.6	566.8
57.5°	540.4	532.2	516.9	505.8	502.8
60°	479.9	468.2	454.1	444.7	442.3
62.5°	419.4	408.8	398.3	388.9	388.3
65°	365.4	354.2	344.8	338.3	338.9
67.5°	316.6	307.2	296.6	294.9	295.5
70°	270.8	260.8	253.2	257.3	260.2
72.5°	227.3	222.0	216.8	222.6	226.7
75°	191.5	186.8	182.7	190.9	196.2
77.5°	158.6	155.1	154.5	161.5	166.2
80°	127.5	123.4	125.1	133.3	137.5
82.5°	96.9	94.0	94.6	104.6	107.5
85°	65.2	64.0	65.8	74.6	75.2
87.5°	34.7	34.7	35.8	41.1	39.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)