

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: P294262

Luminaire Tested: **24GR-LD5-56-FGW080-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P294262  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-25)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-56-FGW080-UNV-L82765-W2A1-U-4000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4904.0 lumens  
Efficiency: N/A  
Efficacy: 124.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

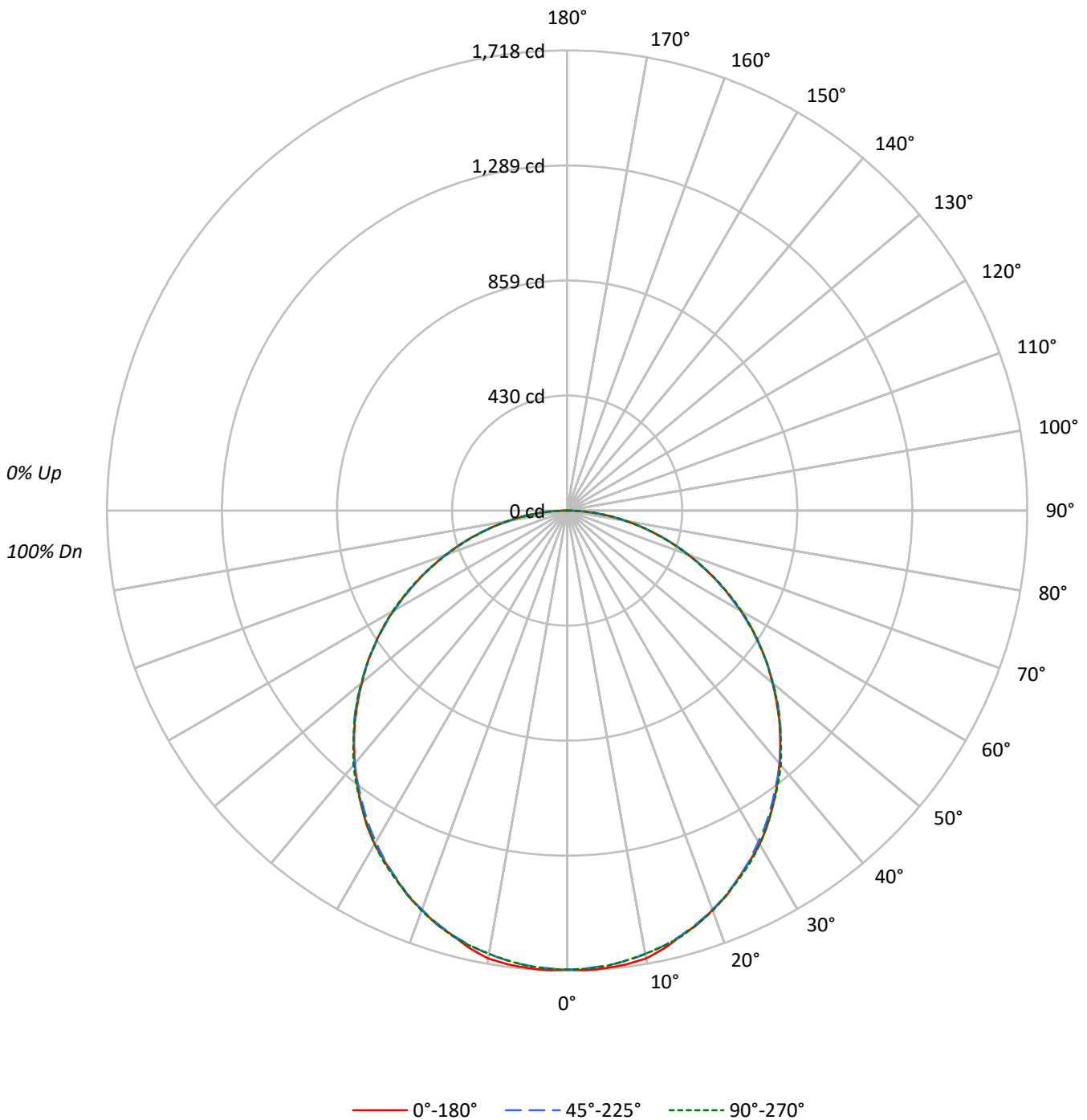
Input Watts (W): 39.432  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26

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

	0°	45°	90°
0°	2306	2306	2306
5°	2315	2303	2304
10°	2320	2296	2296
15°	2289	2288	2293
20°	2272	2270	2275
25°	2248	2246	2253
30°	2234	2219	2235
35°	2202	2190	2202
40°	2165	2167	2180
45°	2135	2141	2137
50°	2094	2101	2097
55°	2062	2057	2062
60°	2014	2007	2026
65°	1952	1959	1966
70°	1888	1897	1884
75°	1822	1822	1822
80°	1721	1721	1739
85°	1589	1607	1553



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.1	3.3
10°-20°	463.3	9.4
20°-30°	698.2	14.2
30°-40°	836.3	17.1
40°-50°	865.6	17.7
50°-60°	784.9	16.0
60°-70°	608.5	12.4
70°-80°	370.1	7.5
80°-90°	115.1	2.3
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°	1323.6	27.0
0°-40°	2159.8	44.0
0°-60°	3810.3	77.7
0°-90°	4904.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4904.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1714	1714	1714	1714	1714	
5°	1714	1704	1705	1702	1706	163
15°	1644	1645	1642	1636	1646	465
25°	1514	1514	1513	1517	1517	699
35°	1340	1331	1334	1339	1340	839
45°	1122	1124	1125	1121	1123	864
55°	879	874	877	880	879	786
65°	613	616	615	613	618	608
75°	350	349	350	349	350	370
85°	103	102	104	103	101	115
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1714.0	1714.0	1714.0	1714.0	1714.0
2.5°	1717.5	1710.5	1710.5	1708.2	1711.7
5°	1714.0	1703.6	1704.8	1702.4	1705.9
7.5°	1708.2	1694.3	1695.5	1693.2	1694.3
10°	1697.8	1681.6	1680.5	1679.3	1680.5
12.5°	1674.7	1665.4	1664.3	1662.0	1665.4
15°	1643.5	1644.6	1642.3	1636.5	1645.8
17.5°	1619.2	1618.0	1615.7	1609.9	1619.2
20°	1586.8	1587.9	1585.6	1583.3	1589.1
22.5°	1555.6	1552.1	1553.2	1552.1	1553.2
25°	1513.9	1513.9	1512.8	1517.4	1517.4
27.5°	1475.8	1471.1	1473.4	1478.1	1480.4
30°	1437.6	1426.0	1428.3	1433.0	1438.7
32.5°	1392.5	1380.9	1383.2	1387.9	1390.2
35°	1340.4	1331.2	1333.5	1339.3	1340.4
37.5°	1287.2	1281.5	1283.8	1288.4	1291.9
40°	1232.9	1230.6	1234.0	1232.9	1241.0
42.5°	1177.4	1176.2	1179.7	1179.7	1180.8
45°	1121.9	1124.2	1125.3	1120.7	1123.0
47.5°	1060.6	1061.7	1066.3	1064.0	1065.2
50°	1000.4	999.3	1003.9	1005.0	1001.6
52.5°	942.6	936.8	941.4	943.7	941.4
55°	879.0	874.4	876.7	880.1	879.0
57.5°	816.5	811.9	813.1	818.8	816.5
60°	748.3	747.1	746.0	750.6	752.9
62.5°	681.2	680.1	677.7	682.4	684.7
65°	613.0	616.4	615.3	613.0	617.6
67.5°	548.2	551.7	548.2	545.9	545.9
70°	480.0	483.4	482.3	480.0	478.8
72.5°	416.4	416.4	414.0	412.9	414.0
75°	350.4	349.3	350.4	349.3	350.4
77.5°	285.7	286.8	286.8	286.8	285.7
80°	222.1	222.1	222.1	223.2	224.4
82.5°	163.1	159.6	163.1	160.8	161.9
85°	102.9	101.8	104.1	102.9	100.6
87.5°	46.3	47.4	47.4	48.6	48.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)