

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: P294393

Luminaire Tested: **24GR-LD5-56-FGW080-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P294393  
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-L92765-W2A1-U-6500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4663.0 lumens  
Efficiency: N/A  
Efficacy: 114.2 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

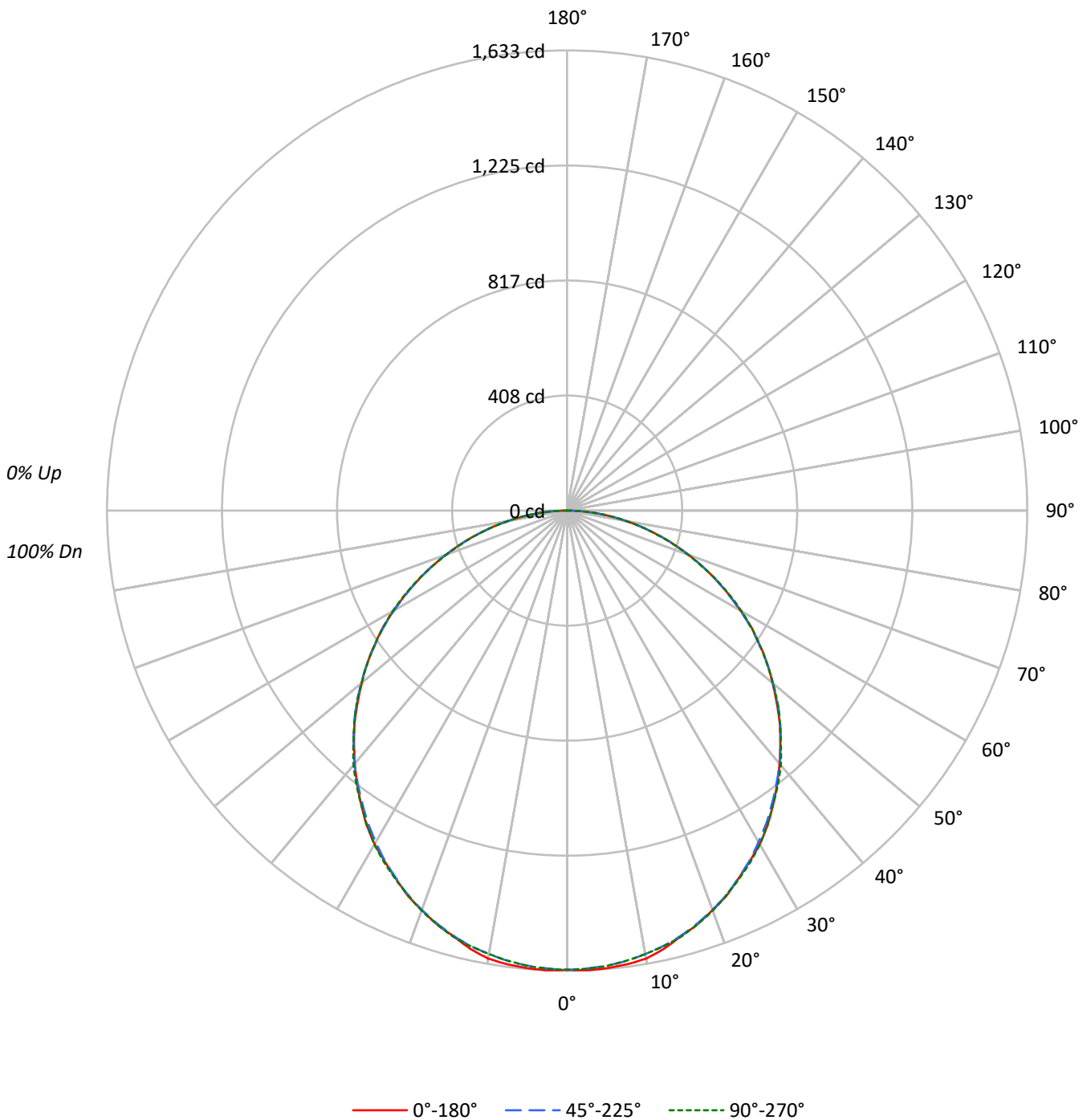
Input Watts (W): 40.827  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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

	0°	45°	90°
0°	2193	2193	2193
5°	2201	2189	2191
10°	2206	2183	2183
15°	2177	2175	2180
20°	2160	2159	2164
25°	2137	2135	2142
30°	2124	2110	2125
35°	2094	2083	2094
40°	2059	2061	2073
45°	2030	2036	2032
50°	1991	1998	1993
55°	1961	1955	1961
60°	1915	1909	1926
65°	1855	1862	1869
70°	1795	1804	1791
75°	1732	1732	1732
80°	1636	1636	1653
85°	1511	1528	1477



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.1	3.3
10°-20°	440.5	9.4
20°-30°	663.9	14.2
30°-40°	795.2	17.1
40°-50°	823.1	17.7
50°-60°	746.3	16.0
60°-70°	578.6	12.4
70°-80°	351.9	7.5
80°-90°	109.5	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°	1258.5	27.0
0°-40°	2053.7	44.0
0°-60°	3623.1	77.7
0°-90°	4663.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4663.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1630	1630	1630	1630	1630	
5°	1630	1620	1621	1619	1622	155
15°	1563	1564	1562	1556	1565	442
25°	1440	1440	1438	1443	1443	665
35°	1275	1266	1268	1274	1275	797
45°	1067	1069	1070	1066	1068	822
55°	836	831	834	837	836	747
65°	583	586	585	583	587	578
75°	333	332	333	332	333	352
85°	98	97	99	98	96	110
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1629.8	1629.8	1629.8	1629.8	1629.8
2.5°	1633.1	1626.5	1626.5	1624.3	1627.6
5°	1629.8	1619.9	1621.0	1618.8	1622.1
7.5°	1624.3	1611.1	1612.2	1610.0	1611.1
10°	1614.4	1599.0	1597.9	1596.8	1597.9
12.5°	1592.4	1583.6	1582.5	1580.3	1583.6
15°	1562.7	1563.8	1561.6	1556.1	1564.9
17.5°	1539.6	1538.5	1536.3	1530.8	1539.6
20°	1508.8	1509.9	1507.7	1505.5	1511.0
22.5°	1479.1	1475.8	1476.9	1475.8	1476.9
25°	1439.5	1439.5	1438.4	1442.8	1442.8
27.5°	1403.2	1398.8	1401.0	1405.4	1407.6
30°	1366.9	1355.9	1358.1	1362.5	1368.0
32.5°	1324.1	1313.1	1315.3	1319.7	1321.9
35°	1274.6	1265.8	1268.0	1273.5	1274.6
37.5°	1224.0	1218.5	1220.7	1225.1	1228.4
40°	1172.3	1170.1	1173.4	1172.3	1180.0
42.5°	1119.5	1118.4	1121.7	1121.7	1122.8
45°	1066.7	1068.9	1070.0	1065.6	1067.8
47.5°	1008.4	1009.5	1013.9	1011.7	1012.8
50°	951.3	950.2	954.5	955.6	952.3
52.5°	896.3	890.8	895.2	897.4	895.2
55°	835.8	831.4	833.6	836.9	835.8
57.5°	776.4	772.0	773.1	778.6	776.4
60°	711.5	710.4	709.3	713.7	715.9
62.5°	647.7	646.6	644.4	648.8	651.0
65°	582.8	586.1	585.0	582.8	587.2
67.5°	521.3	524.6	521.3	519.1	519.1
70°	456.4	459.7	458.6	456.4	455.3
72.5°	395.9	395.9	393.7	392.6	393.7
75°	333.2	332.1	333.2	332.1	333.2
77.5°	271.6	272.7	272.7	272.7	271.6
80°	211.1	211.1	211.1	212.2	213.3
82.5°	155.1	151.8	155.1	152.9	154.0
85°	97.9	96.8	99.0	97.9	95.7
87.5°	44.0	45.1	45.1	46.2	46.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)