

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: P294249

Luminaire Tested: **24GR-LD5-42-FGW080-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P294249  
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-LD5-42-FGW080-UNV-L82765-W2A1-U-6500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3821.0 lumens  
Efficiency: N/A  
Efficacy: 130.8 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

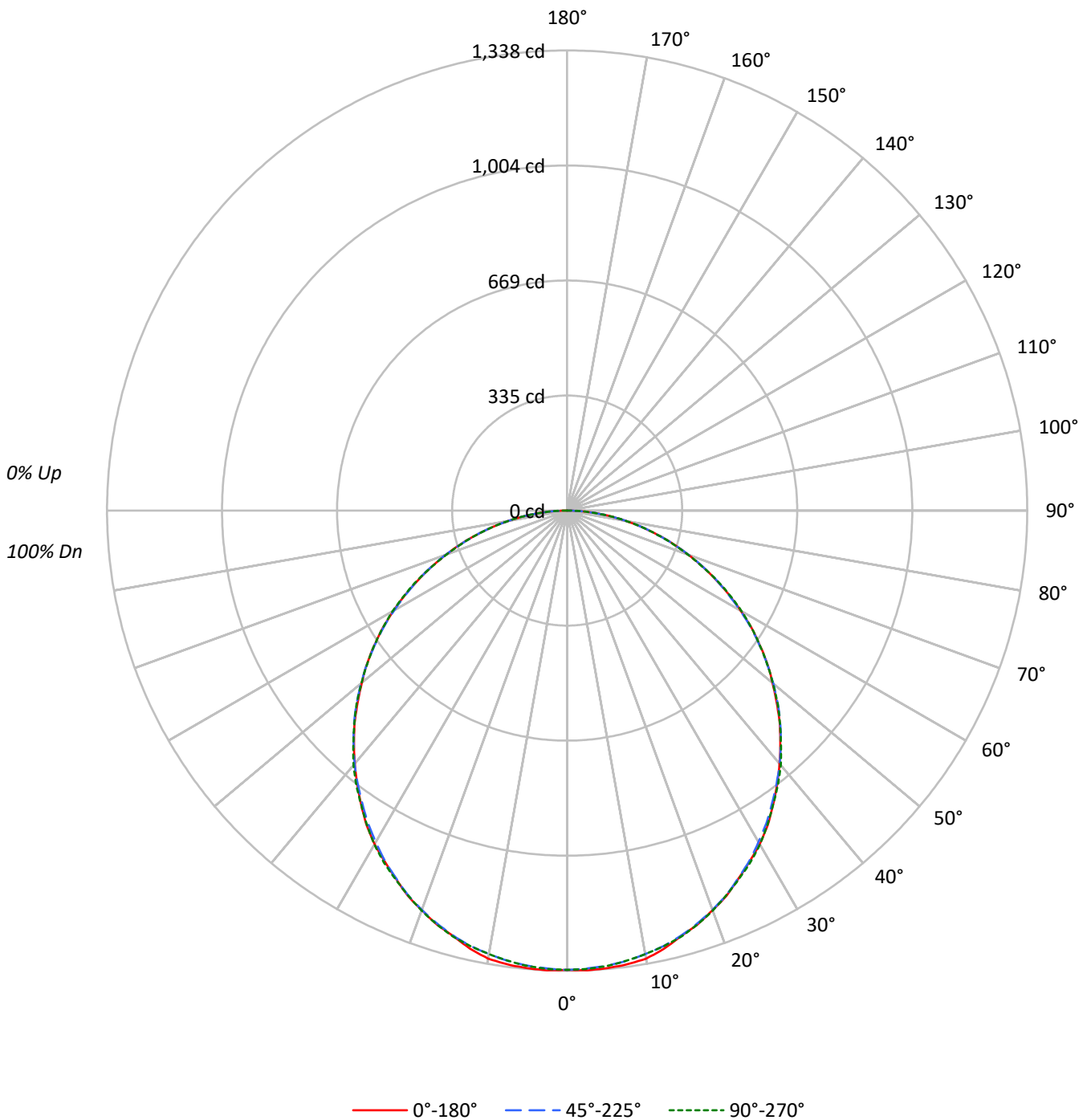
Input Watts (W): 29.202  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1797	1797	1797
5°	1804	1794	1795
10°	1807	1789	1789
15°	1784	1782	1786
20°	1770	1769	1773
25°	1751	1750	1755
30°	1740	1729	1742
35°	1715	1707	1715
40°	1687	1689	1698
45°	1663	1668	1665
50°	1632	1637	1634
55°	1607	1602	1607
60°	1569	1564	1579
65°	1521	1526	1532
70°	1471	1478	1468
75°	1419	1419	1419
80°	1340	1340	1354
85°	1238	1252	1210



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.3	3.3
10°-20°	361.0	9.4
20°-30°	544.0	14.2
30°-40°	651.6	17.1
40°-50°	674.5	17.7
50°-60°	611.5	16.0
60°-70°	474.1	12.4
70°-80°	288.3	7.5
80°-90°	89.7	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°	1031.3	27.0
0°-40°	1682.9	44.0
0°-60°	2968.9	77.7
0°-90°	3821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3821.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1336	1327	1328	1326	1329	127
15°	1280	1281	1280	1275	1282	362
25°	1180	1180	1179	1182	1182	545
35°	1044	1037	1039	1044	1044	653
45°	874	876	877	873	875	673
55°	685	681	683	686	685	612
65°	478	480	479	478	481	474
75°	273	272	273	272	273	288
85°	80	79	81	80	78	90
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1335.5	1335.5	1335.5	1335.5	1335.5
2.5°	1338.2	1332.8	1332.8	1331.0	1333.7
5°	1335.5	1327.4	1328.3	1326.5	1329.2
7.5°	1331.0	1320.2	1321.1	1319.3	1320.2
10°	1322.9	1310.3	1309.4	1308.4	1309.4
12.5°	1304.8	1297.6	1296.7	1294.9	1297.6
15°	1280.5	1281.4	1279.6	1275.1	1282.3
17.5°	1261.6	1260.7	1258.9	1254.4	1261.6
20°	1236.4	1237.3	1235.5	1233.7	1238.2
22.5°	1212.0	1209.3	1210.2	1209.3	1210.2
25°	1179.6	1179.6	1178.7	1182.3	1182.3
27.5°	1149.8	1146.2	1148.0	1151.7	1153.5
30°	1120.1	1111.1	1112.9	1116.5	1121.0
32.5°	1085.0	1076.0	1077.8	1081.4	1083.2
35°	1044.4	1037.2	1039.0	1043.5	1044.4
37.5°	1003.0	998.5	1000.3	1003.9	1006.6
40°	960.6	958.8	961.5	960.6	966.9
42.5°	917.4	916.5	919.2	919.2	920.1
45°	874.1	875.9	876.8	873.2	875.0
47.5°	826.3	827.2	830.8	829.0	829.9
50°	779.5	778.6	782.2	783.1	780.4
52.5°	734.4	729.9	733.5	735.3	733.5
55°	684.9	681.3	683.1	685.8	684.9
57.5°	636.2	632.6	633.5	638.0	636.2
60°	583.0	582.1	581.2	584.8	586.6
62.5°	530.8	529.9	528.1	531.7	533.5
65°	477.6	480.3	479.4	477.6	481.2
67.5°	427.1	429.8	427.1	425.3	425.3
70°	374.0	376.7	375.8	374.0	373.1
72.5°	324.4	324.4	322.6	321.7	322.6
75°	273.0	272.1	273.0	272.1	273.0
77.5°	222.6	223.5	223.5	223.5	222.6
80°	173.0	173.0	173.0	173.9	174.8
82.5°	127.1	124.4	127.1	125.3	126.2
85°	80.2	79.3	81.1	80.2	78.4
87.5°	36.0	36.9	36.9	37.8	37.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)