

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: P294237

Luminaire Tested: **24GR-LD5-38-FGW080-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P294237  
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-LD5-38-FGW080-UNV-L82765-W2A1-U-5000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3455.0 lumens  
Efficiency: N/A  
Efficacy: 133.2 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

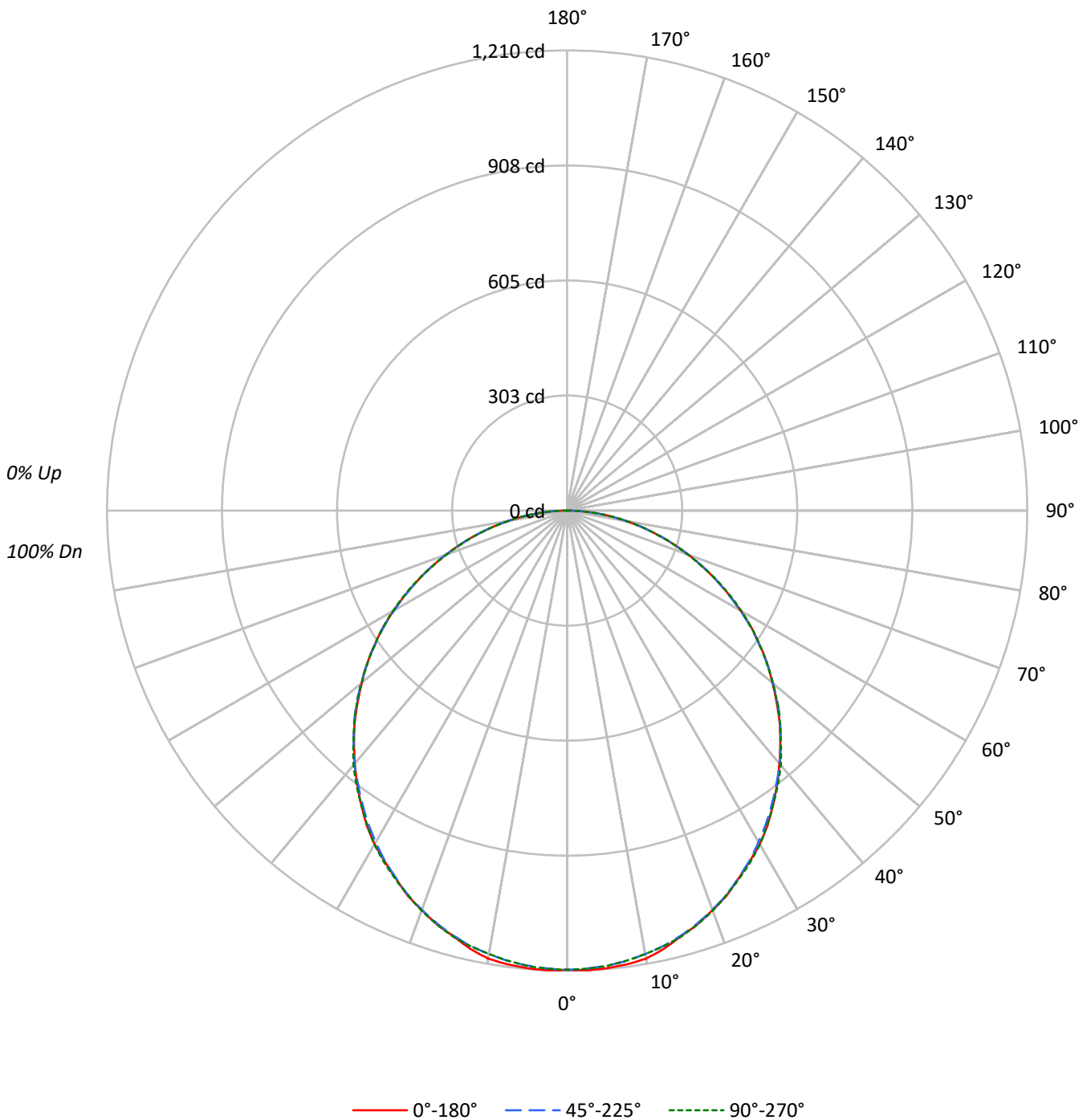
Input Watts (W): 25.947  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1625	1625	1625
5°	1631	1622	1623
10°	1634	1617	1617
15°	1613	1612	1615
20°	1601	1600	1603
25°	1583	1582	1587
30°	1574	1563	1575
35°	1551	1543	1551
40°	1526	1527	1536
45°	1504	1509	1506
50°	1475	1481	1477
55°	1453	1449	1453
60°	1419	1414	1427
65°	1375	1380	1385
70°	1330	1337	1327
75°	1284	1284	1284
80°	1212	1212	1225
85°	1119	1132	1095



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.2	3.3
10°-20°	326.4	9.4
20°-30°	491.9	14.2
30°-40°	589.2	17.1
40°-50°	609.9	17.7
50°-60°	553.0	16.0
60°-70°	428.7	12.4
70°-80°	260.7	7.5
80°-90°	81.1	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°	932.5	27.0
0°-40°	1521.6	44.0
0°-60°	2684.5	77.7
0°-90°	3455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3455.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1208	1200	1201	1199	1202	115
15°	1158	1159	1157	1153	1160	327
25°	1067	1067	1066	1069	1069	492
35°	944	938	940	944	944	591
45°	790	792	793	790	791	609
55°	619	616	618	620	619	554
65°	432	434	434	432	435	428
75°	247	246	247	246	247	261
85°	72	72	73	72	71	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1207.6	1207.6	1207.6	1207.6	1207.6
2.5°	1210.0	1205.1	1205.1	1203.5	1205.9
5°	1207.6	1200.2	1201.0	1199.4	1201.9
7.5°	1203.5	1193.7	1194.5	1192.9	1193.7
10°	1196.2	1184.7	1183.9	1183.1	1183.9
12.5°	1179.9	1173.3	1172.5	1170.9	1173.3
15°	1157.9	1158.7	1157.0	1153.0	1159.5
17.5°	1140.7	1139.9	1138.3	1134.2	1140.7
20°	1117.9	1118.7	1117.1	1115.5	1119.6
22.5°	1095.9	1093.5	1094.3	1093.5	1094.3
25°	1066.6	1066.6	1065.8	1069.0	1069.0
27.5°	1039.7	1036.5	1038.1	1041.3	1043.0
30°	1012.8	1004.7	1006.3	1009.6	1013.6
32.5°	981.0	972.9	974.5	977.8	979.4
35°	944.4	937.9	939.5	943.6	944.4
37.5°	906.9	902.8	904.4	907.7	910.2
40°	868.6	867.0	869.4	868.6	874.3
42.5°	829.5	828.7	831.1	831.1	831.9
45°	790.4	792.0	792.8	789.6	791.2
47.5°	747.2	748.0	751.3	749.6	750.4
50°	704.8	704.0	707.3	708.1	705.6
52.5°	664.1	660.0	663.3	664.9	663.3
55°	619.3	616.0	617.6	620.1	619.3
57.5°	575.3	572.0	572.8	576.9	575.3
60°	527.2	526.4	525.6	528.8	530.4
62.5°	479.9	479.1	477.5	480.7	482.4
65°	431.9	434.3	433.5	431.9	435.1
67.5°	386.2	388.7	386.2	384.6	384.6
70°	338.1	340.6	339.8	338.1	337.3
72.5°	293.3	293.3	291.7	290.9	291.7
75°	246.9	246.1	246.9	246.1	246.9
77.5°	201.3	202.1	202.1	202.1	201.3
80°	156.4	156.4	156.4	157.3	158.1
82.5°	114.9	112.4	114.9	113.3	114.1
85°	72.5	71.7	73.3	72.5	70.9
87.5°	32.6	33.4	33.4	34.2	34.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)