

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: P292847

Luminaire Tested: **22GR-LD5-20-FGW080-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292847  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-26)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-20-FGW080-UNV-L92765-W2A1-U-3000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1415.0 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

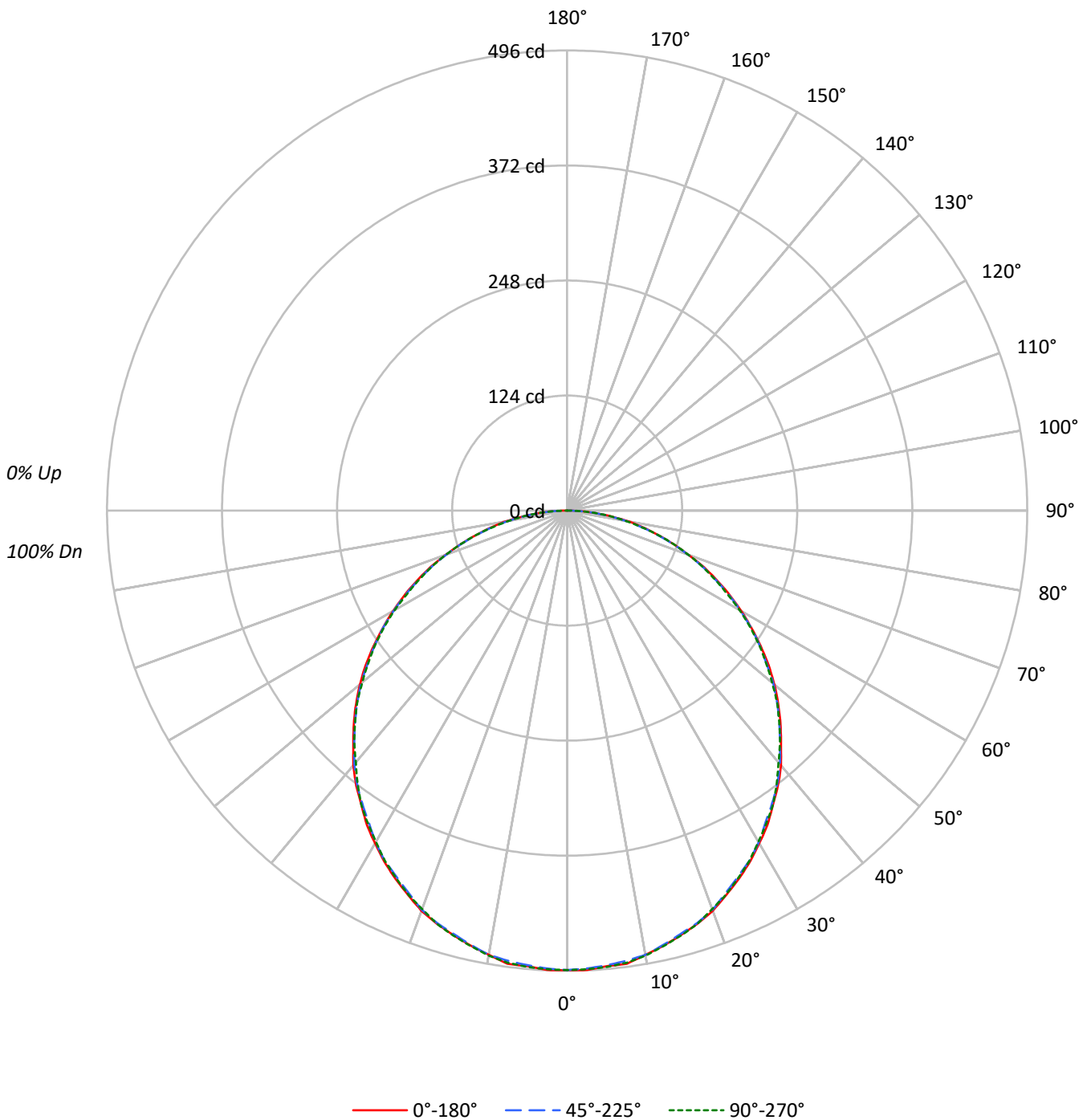
Input Watts (W): 15.252  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	85	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°	1333	1333	1333
5°	1331	1329	1333
10°	1328	1328	1331
15°	1320	1316	1321
20°	1315	1311	1309
25°	1300	1293	1297
30°	1287	1283	1281
35°	1271	1265	1271
40°	1260	1254	1245
45°	1238	1230	1230
50°	1221	1214	1207
55°	1195	1187	1185
60°	1167	1160	1156
65°	1138	1124	1119
70°	1092	1089	1092
75°	1054	1041	1050
80°	1043	992	986
85°	923	898	911



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.8	3.3
10°-20°	133.7	9.4
20°-30°	201.3	14.2
30°-40°	241.6	17.1
40°-50°	250.0	17.7
50°-60°	226.5	16.0
60°-70°	175.6	12.4
70°-80°	106.6	7.5
80°-90°	33.0	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°	381.8	27.0
0°-40°	623.4	44.1
0°-60°	1099.9	77.7
0°-90°	1415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1415.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	495	495	495	495	495	
5°	493	493	492	493	494	47
15°	474	474	472	474	474	134
25°	438	437	435	437	437	202
35°	387	387	385	386	387	243
45°	325	325	323	323	323	251
55°	255	254	253	253	253	228
65°	179	179	177	177	176	177
75°	101	101	100	100	101	108
85°	30	30	29	29	30	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	495.3	495.3	495.3	495.3	495.3
2.5°	495.7	493.6	494.0	494.8	494.8
5°	492.8	492.8	491.9	493.2	493.6
7.5°	492.8	490.7	489.4	490.7	491.5
10°	486.1	485.3	486.1	485.7	487.0
12.5°	480.3	479.5	479.5	480.7	480.7
15°	473.7	473.7	472.4	474.5	474.1
17.5°	467.0	467.0	466.2	466.2	467.0
20°	459.1	457.0	457.9	457.5	457.0
22.5°	448.3	447.1	446.2	447.5	447.9
25°	437.9	437.1	435.4	437.1	436.7
27.5°	426.7	425.9	425.5	424.6	425.5
30°	414.2	413.4	413.0	412.2	412.2
32.5°	401.8	400.1	398.0	400.1	399.7
35°	386.8	386.8	385.2	385.6	386.8
37.5°	373.5	372.7	371.9	370.6	371.0
40°	358.6	357.3	356.9	356.1	354.4
42.5°	341.1	341.1	339.5	339.9	339.5
45°	325.3	324.9	323.3	323.3	323.3
47.5°	308.7	308.3	307.0	306.2	307.0
50°	291.7	290.0	290.0	288.8	288.3
52.5°	273.8	272.6	270.9	271.3	270.5
55°	254.7	254.3	253.0	252.6	252.6
57.5°	235.6	236.0	235.2	233.5	233.9
60°	216.9	216.5	215.6	214.8	214.8
62.5°	197.8	197.8	196.1	196.1	194.4
65°	178.7	178.7	176.6	177.4	175.8
67.5°	159.5	159.1	157.9	157.5	157.9
70°	138.8	139.2	138.4	138.4	138.8
72.5°	120.1	119.7	119.2	119.2	120.1
75°	101.4	101.0	100.1	100.1	101.0
77.5°	84.3	82.3	81.9	82.7	81.4
80°	67.3	64.4	64.0	63.6	63.6
82.5°	47.4	46.1	46.5	46.1	47.0
85°	29.9	29.5	29.1	29.1	29.5
87.5°	14.1	13.3	13.3	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)