

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: P292815

Luminaire Tested: **22GR-LD5-20-FGW080-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292815  
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-L93050-W2A1-U-5000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1622.0 lumens  
Efficiency: N/A  
Efficacy: 100.8 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

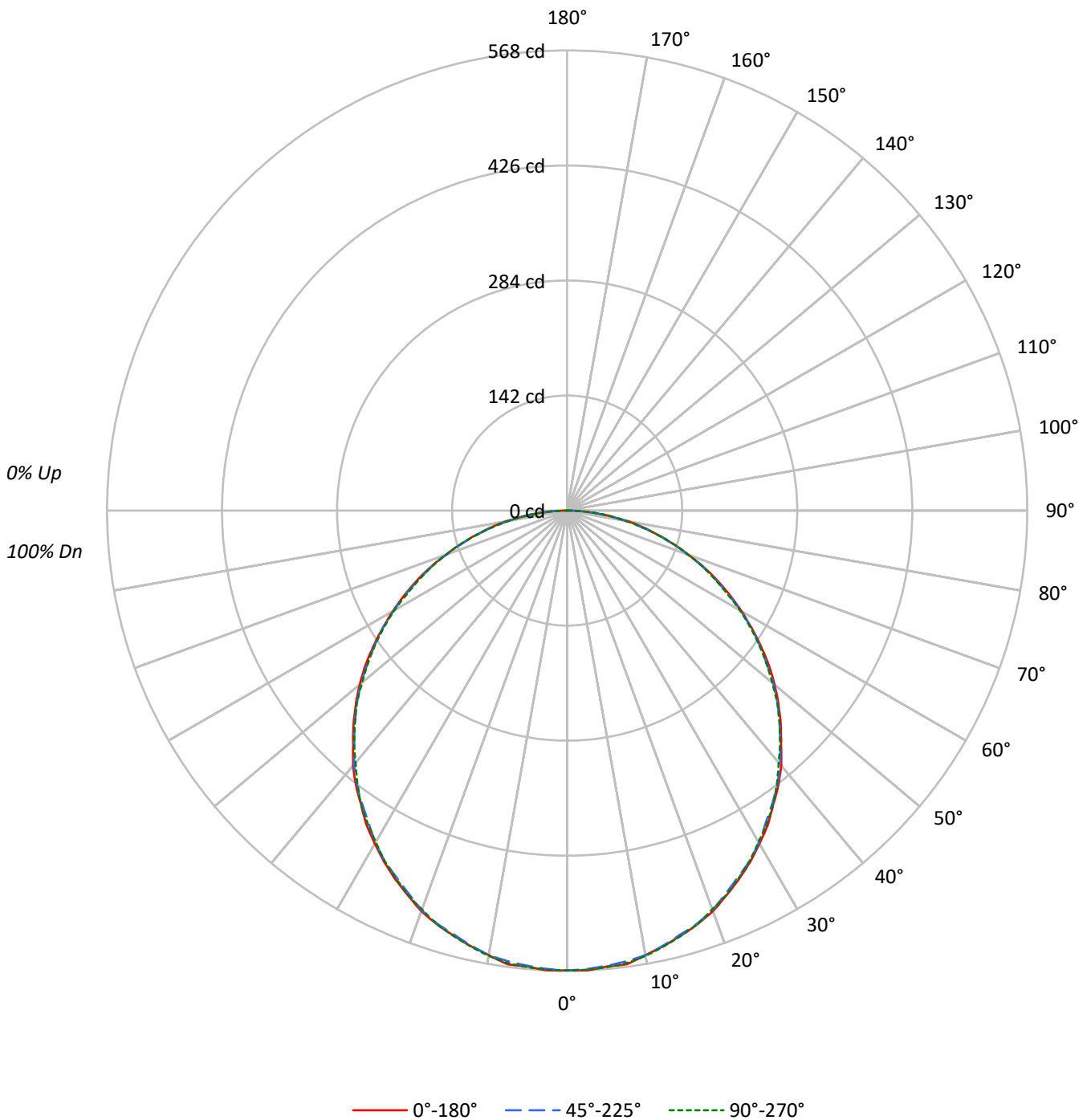
Input Watts (W): 16.089  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1528	1528	1528
5°	1526	1523	1528
10°	1523	1523	1525
15°	1512	1509	1514
20°	1507	1503	1500
25°	1491	1482	1486
30°	1475	1471	1468
35°	1457	1450	1457
40°	1444	1437	1427
45°	1419	1410	1410
50°	1400	1392	1384
55°	1370	1361	1359
60°	1338	1330	1325
65°	1304	1289	1283
70°	1252	1248	1252
75°	1208	1194	1203
80°	1196	1136	1130
85°	1059	1028	1044



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.7	3.3
10°-20°	153.2	9.4
20°-30°	230.7	14.2
30°-40°	276.9	17.1
40°-50°	286.5	17.7
50°-60°	259.6	16.0
60°-70°	201.3	12.4
70°-80°	122.2	7.5
80°-90°	37.8	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°	437.7	27.0
0°-40°	714.6	44.1
0°-60°	1260.7	77.7
0°-90°	1622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1622.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	568	568	568	568	568	
5°	565	565	564	565	566	54
15°	543	543	542	544	543	153
25°	502	501	499	501	501	231
35°	443	443	442	442	443	278
45°	373	372	370	370	370	288
55°	292	292	290	290	290	261
65°	205	205	202	203	202	202
75°	116	116	115	115	116	124
85°	34	34	33	33	34	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	567.7	567.7	567.7	567.7	567.7
2.5°	568.2	565.8	566.3	567.2	567.2
5°	564.9	564.9	563.9	565.3	565.8
7.5°	564.9	562.5	561.0	562.5	563.4
10°	557.2	556.3	557.2	556.8	558.2
12.5°	550.6	549.6	549.6	551.0	551.0
15°	542.9	542.9	541.5	543.9	543.4
17.5°	535.3	535.3	534.4	534.4	535.3
20°	526.3	523.9	524.9	524.4	523.9
22.5°	513.9	512.5	511.5	512.9	513.4
25°	502.0	501.0	499.1	501.0	500.6
27.5°	489.1	488.2	487.7	486.7	487.7
30°	474.8	473.9	473.4	472.5	472.5
32.5°	460.6	458.6	456.3	458.6	458.2
35°	443.4	443.4	441.5	442.0	443.4
37.5°	428.2	427.2	426.3	424.8	425.3
40°	411.0	409.6	409.1	408.2	406.3
42.5°	391.0	391.0	389.1	389.6	389.1
45°	372.9	372.4	370.5	370.5	370.5
47.5°	353.9	353.4	352.0	351.0	352.0
50°	334.3	332.4	332.4	331.0	330.5
52.5°	313.9	312.4	310.5	311.0	310.1
55°	292.0	291.5	290.0	289.6	289.6
57.5°	270.0	270.5	269.6	267.7	268.1
60°	248.6	248.1	247.2	246.2	246.2
62.5°	226.7	226.7	224.8	224.8	222.9
65°	204.8	204.8	202.4	203.4	201.5
67.5°	182.9	182.4	181.0	180.5	181.0
70°	159.1	159.6	158.6	158.6	159.1
72.5°	137.6	137.2	136.7	136.7	137.6
75°	116.2	115.7	114.8	114.8	115.7
77.5°	96.7	94.3	93.8	94.8	93.3
80°	77.2	73.8	73.3	72.9	72.9
82.5°	54.3	52.9	53.3	52.9	53.8
85°	34.3	33.8	33.3	33.3	33.8
87.5°	16.2	15.2	15.2	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)