

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: P292852

Luminaire Tested: **22GR-LD5-20-FGW080-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292852  
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-5500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1630.0 lumens  
Efficiency: N/A  
Efficacy: 102.5 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

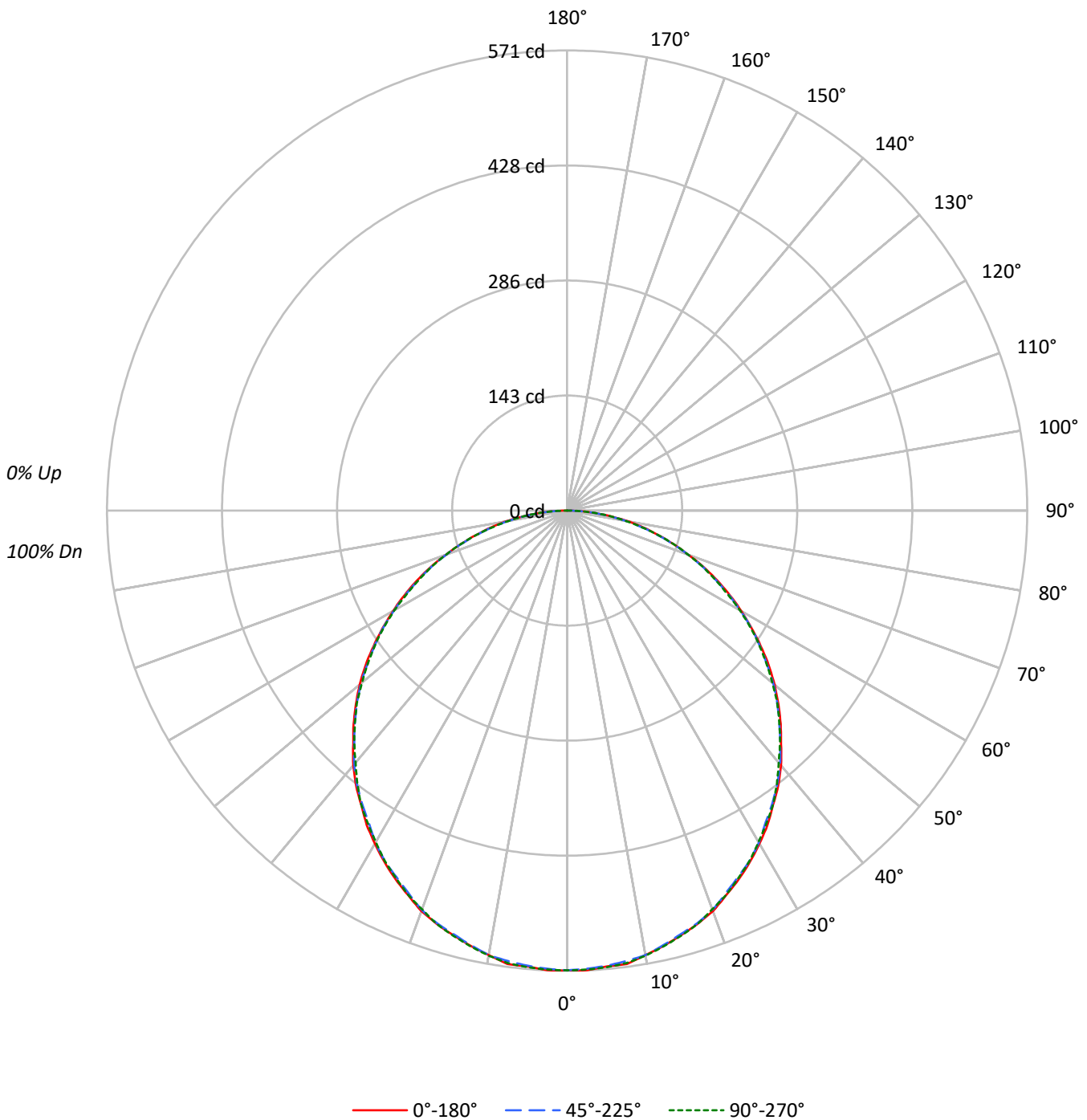
Input Watts (W): 15.903  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1535	1535	1535
5°	1533	1531	1536
10°	1530	1530	1533
15°	1520	1516	1521
20°	1515	1510	1508
25°	1498	1489	1493
30°	1483	1478	1475
35°	1464	1458	1464
40°	1451	1444	1434
45°	1426	1417	1417
50°	1407	1399	1391
55°	1377	1368	1365
60°	1344	1337	1331
65°	1310	1295	1289
70°	1258	1254	1258
75°	1214	1199	1209
80°	1201	1142	1134
85°	1065	1034	1050



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.0	3.3
10°-20°	154.0	9.4
20°-30°	231.9	14.2
30°-40°	278.3	17.1
40°-50°	287.9	17.7
50°-60°	260.9	16.0
60°-70°	202.3	12.4
70°-80°	122.8	7.5
80°-90°	38.0	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°	439.8	27.0
0°-40°	718.1	44.1
0°-60°	1267.0	77.7
0°-90°	1630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1630.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	570	570	570	570	570	
5°	568	568	567	568	569	54
15°	546	546	544	547	546	154
25°	504	504	502	504	503	233
35°	446	446	444	444	446	279
45°	375	374	372	372	372	289
55°	293	293	292	291	291	262
65°	206	206	203	204	202	203
75°	117	116	115	115	116	124
85°	34	34	34	34	34	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	570.5	570.5	570.5	570.5	570.5
2.5°	571.0	568.6	569.1	570.0	570.0
5°	567.6	567.6	566.7	568.1	568.6
7.5°	567.6	565.3	563.8	565.3	566.2
10°	560.0	559.0	560.0	559.5	560.9
12.5°	553.3	552.3	552.3	553.8	553.8
15°	545.6	545.6	544.2	546.6	546.1
17.5°	538.0	538.0	537.0	537.0	538.0
20°	528.9	526.5	527.4	527.0	526.5
22.5°	516.4	515.0	514.0	515.5	516.0
25°	504.5	503.5	501.6	503.5	503.0
27.5°	491.5	490.6	490.1	489.1	490.1
30°	477.2	476.2	475.7	474.8	474.8
32.5°	462.8	460.9	458.5	460.9	460.4
35°	445.6	445.6	443.7	444.2	445.6
37.5°	430.3	429.3	428.4	426.9	427.4
40°	413.0	411.6	411.1	410.2	408.3
42.5°	392.9	392.9	391.0	391.5	391.0
45°	374.8	374.3	372.4	372.4	372.4
47.5°	355.6	355.1	353.7	352.7	353.7
50°	336.0	334.1	334.1	332.6	332.2
52.5°	315.4	314.0	312.1	312.5	311.6
55°	293.4	292.9	291.5	291.0	291.0
57.5°	271.4	271.9	270.9	269.0	269.5
60°	249.8	249.4	248.4	247.4	247.4
62.5°	227.8	227.8	225.9	225.9	224.0
65°	205.8	205.8	203.4	204.4	202.5
67.5°	183.8	183.3	181.9	181.4	181.9
70°	159.9	160.3	159.4	159.4	159.9
72.5°	138.3	137.8	137.4	137.4	138.3
75°	116.8	116.3	115.3	115.3	116.3
77.5°	97.2	94.8	94.3	95.2	93.8
80°	77.5	74.2	73.7	73.2	73.2
82.5°	54.6	53.1	53.6	53.1	54.1
85°	34.5	34.0	33.5	33.5	34.0
87.5°	16.3	15.3	15.3	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)