

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: P292735

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292735  
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-LD5-36-FGW080-UNV-L83050-W2A1-U-4000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3173.0 lumens  
Efficiency: N/A  
Efficacy: 110.4 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

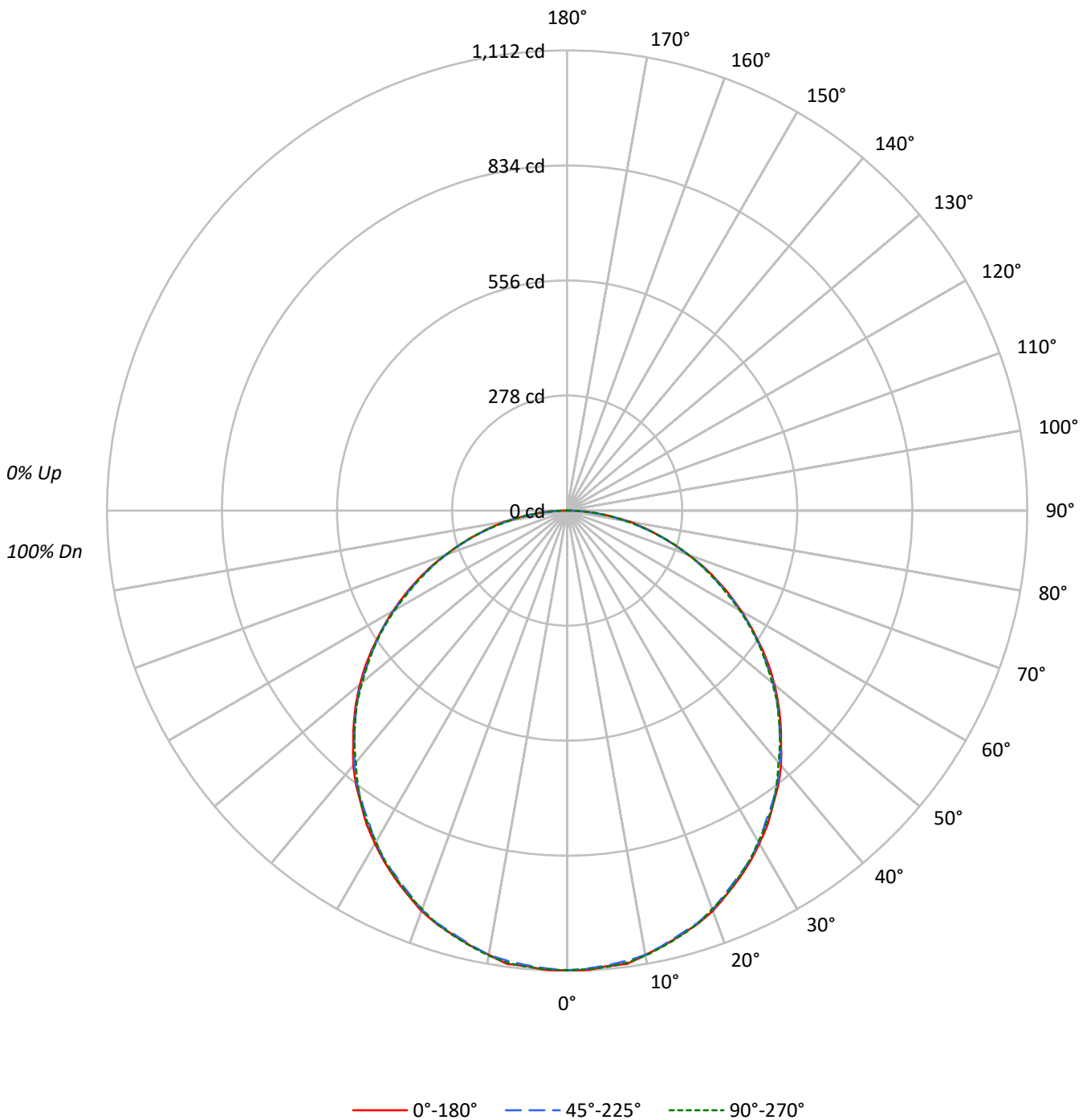
Input Watts (W): 28.737  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2989	2989	2989
5°	2985	2980	2990
10°	2979	2979	2984
15°	2959	2951	2962
20°	2948	2940	2935
25°	2916	2899	2907
30°	2886	2878	2872
35°	2849	2837	2849
40°	2825	2811	2792
45°	2776	2759	2759
50°	2738	2722	2707
55°	2679	2662	2658
60°	2617	2602	2592
65°	2551	2521	2509
70°	2448	2441	2448
75°	2363	2334	2354
80°	2338	2224	2208
85°	2072	2013	2044



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.1	3.3
10°-20°	299.8	9.4
20°-30°	451.4	14.2
30°-40°	541.7	17.1
40°-50°	560.5	17.7
50°-60°	507.9	16.0
60°-70°	393.7	12.4
70°-80°	239.0	7.5
80°-90°	74.0	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°	856.2	27.0
0°-40°	1397.9	44.1
0°-60°	2466.3	77.7
0°-90°	3173.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3173.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1111	1111	1111	1111	1111	
5°	1105	1105	1103	1106	1107	105
15°	1062	1062	1059	1064	1063	300
25°	982	980	976	980	979	453
35°	867	867	864	865	867	544
45°	730	729	725	725	725	563
55°	571	570	567	566	566	511
65°	401	401	396	398	394	396
75°	227	226	224	224	226	242
85°	67	66	65	65	66	76
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1110.6	1110.6	1110.6	1110.6	1110.6
2.5°	1111.5	1106.9	1107.8	1109.6	1109.6
5°	1105.0	1105.0	1103.1	1105.9	1106.9
7.5°	1105.0	1100.3	1097.5	1100.3	1102.2
10°	1090.1	1088.2	1090.1	1089.2	1091.9
12.5°	1077.0	1075.2	1075.2	1078.0	1078.0
15°	1062.1	1062.1	1059.3	1064.0	1063.1
17.5°	1047.2	1047.2	1045.4	1045.4	1047.2
20°	1029.5	1024.9	1026.7	1025.8	1024.9
22.5°	1005.3	1002.5	1000.6	1003.4	1004.4
25°	982.0	980.1	976.4	980.1	979.2
27.5°	956.9	955.0	954.1	952.2	954.1
30°	928.9	927.0	926.1	924.2	924.2
32.5°	900.9	897.2	892.6	897.2	896.3
35°	867.4	867.4	863.7	864.6	867.4
37.5°	837.6	835.7	833.9	831.1	832.0
40°	804.1	801.3	800.3	798.5	794.7
42.5°	764.9	764.9	761.2	762.1	761.2
45°	729.5	728.6	724.9	724.9	724.9
47.5°	692.2	691.3	688.5	686.7	688.5
50°	654.0	650.3	650.3	647.5	646.6
52.5°	614.0	611.2	607.5	608.4	606.5
55°	571.1	570.2	567.4	566.5	566.5
57.5°	528.3	529.2	527.3	523.6	524.5
60°	486.3	485.4	483.5	481.7	481.7
62.5°	443.5	443.5	439.8	439.8	436.0
65°	400.6	400.6	396.0	397.8	394.1
67.5°	357.8	356.8	354.0	353.1	354.0
70°	311.2	312.1	310.3	310.3	311.2
72.5°	269.3	268.3	267.4	267.4	269.3
75°	227.3	226.4	224.5	224.5	226.4
77.5°	189.1	184.5	183.5	185.4	182.6
80°	150.9	144.4	143.5	142.5	142.5
82.5°	106.2	103.4	104.3	103.4	105.3
85°	67.1	66.2	65.2	65.2	66.2
87.5°	31.7	29.8	29.8	28.9	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)