

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: P292901

Luminaire Tested: **22GR-LD5-43-FGW080-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292901  
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-LD5-43-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: 2963.0 lumens  
Efficiency: N/A  
Efficacy: 85.2 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

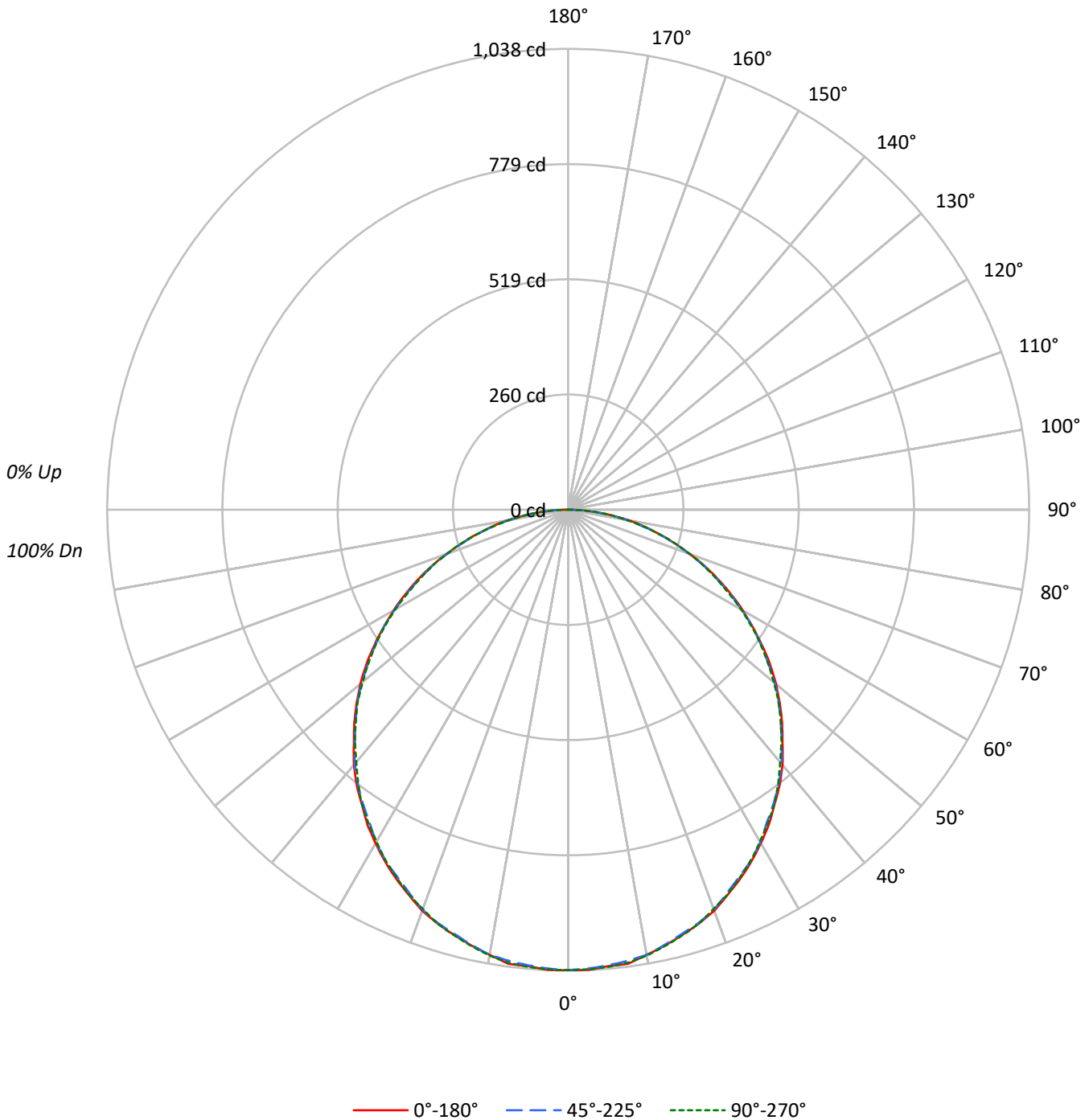
Input Watts (W): 34.782  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83				83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69				69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58				58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49				49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43				43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37				37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33				33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29				29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26				26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24				24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2791	2791	2791
5°	2787	2783	2792
10°	2781	2781	2786
15°	2763	2756	2766
20°	2753	2746	2741
25°	2723	2707	2715
30°	2695	2687	2682
35°	2661	2649	2661
40°	2637	2625	2607
45°	2592	2576	2576
50°	2557	2542	2528
55°	2502	2486	2482
60°	2444	2430	2421
65°	2382	2355	2343
70°	2286	2279	2286
75°	2207	2180	2198
80°	2183	2077	2063
85°	1933	1880	1908



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.1	3.3
10°-20°	279.9	9.4
20°-30°	421.5	14.2
30°-40°	505.8	17.1
40°-50°	523.4	17.7
50°-60°	474.3	16.0
60°-70°	367.6	12.4
70°-80°	223.2	7.5
80°-90°	69.1	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°	799.5	27.0
0°-40°	1305.4	44.1
0°-60°	2303.1	77.7
0°-90°	2963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2963.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1037	1037	1037	1037	1037	
5°	1032	1032	1030	1033	1034	98
15°	992	992	989	994	993	280
25°	917	915	912	915	914	423
35°	810	810	806	807	810	508
45°	681	680	677	677	677	526
55°	533	532	530	529	529	477
65°	374	374	370	372	368	370
75°	212	211	210	210	211	226
85°	63	62	61	61	62	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1037.1	1037.1	1037.1	1037.1	1037.1
2.5°	1037.9	1033.6	1034.5	1036.2	1036.2
5°	1031.9	1031.9	1030.1	1032.7	1033.6
7.5°	1031.9	1027.5	1024.9	1027.5	1029.2
10°	1017.9	1016.2	1017.9	1017.1	1019.7
12.5°	1005.8	1004.0	1004.0	1006.6	1006.6
15°	991.8	991.8	989.2	993.6	992.7
17.5°	977.9	977.9	976.2	976.2	977.9
20°	961.4	957.0	958.8	957.9	957.0
22.5°	938.8	936.2	934.4	937.0	937.9
25°	917.0	915.3	911.8	915.3	914.4
27.5°	893.5	891.8	890.9	889.2	890.9
30°	867.4	865.7	864.8	863.1	863.1
32.5°	841.3	837.8	833.5	837.8	837.0
35°	810.0	810.0	806.5	807.4	810.0
37.5°	782.2	780.4	778.7	776.1	776.9
40°	750.8	748.2	747.4	745.6	742.1
42.5°	714.3	714.3	710.8	711.7	710.8
45°	681.2	680.4	676.9	676.9	676.9
47.5°	646.4	645.6	643.0	641.2	643.0
50°	610.8	607.3	607.3	604.7	603.8
52.5°	573.4	570.7	567.3	568.1	566.4
55°	533.3	532.5	529.8	529.0	529.0
57.5°	493.3	494.2	492.4	489.0	489.8
60°	454.2	453.3	451.5	449.8	449.8
62.5°	414.1	414.1	410.7	410.7	407.2
65°	374.1	374.1	369.8	371.5	368.0
67.5°	334.1	333.2	330.6	329.7	330.6
70°	290.6	291.5	289.7	289.7	290.6
72.5°	251.4	250.6	249.7	249.7	251.4
75°	212.3	211.4	209.7	209.7	211.4
77.5°	176.6	172.3	171.4	173.1	170.5
80°	140.9	134.9	134.0	133.1	133.1
82.5°	99.2	96.6	97.4	96.6	98.3
85°	62.6	61.8	60.9	60.9	61.8
87.5°	29.6	27.8	27.8	27.0	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)