

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: P292736

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292736  
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-4500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3203.0 lumens  
Efficiency: N/A  
Efficacy: 108.6 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

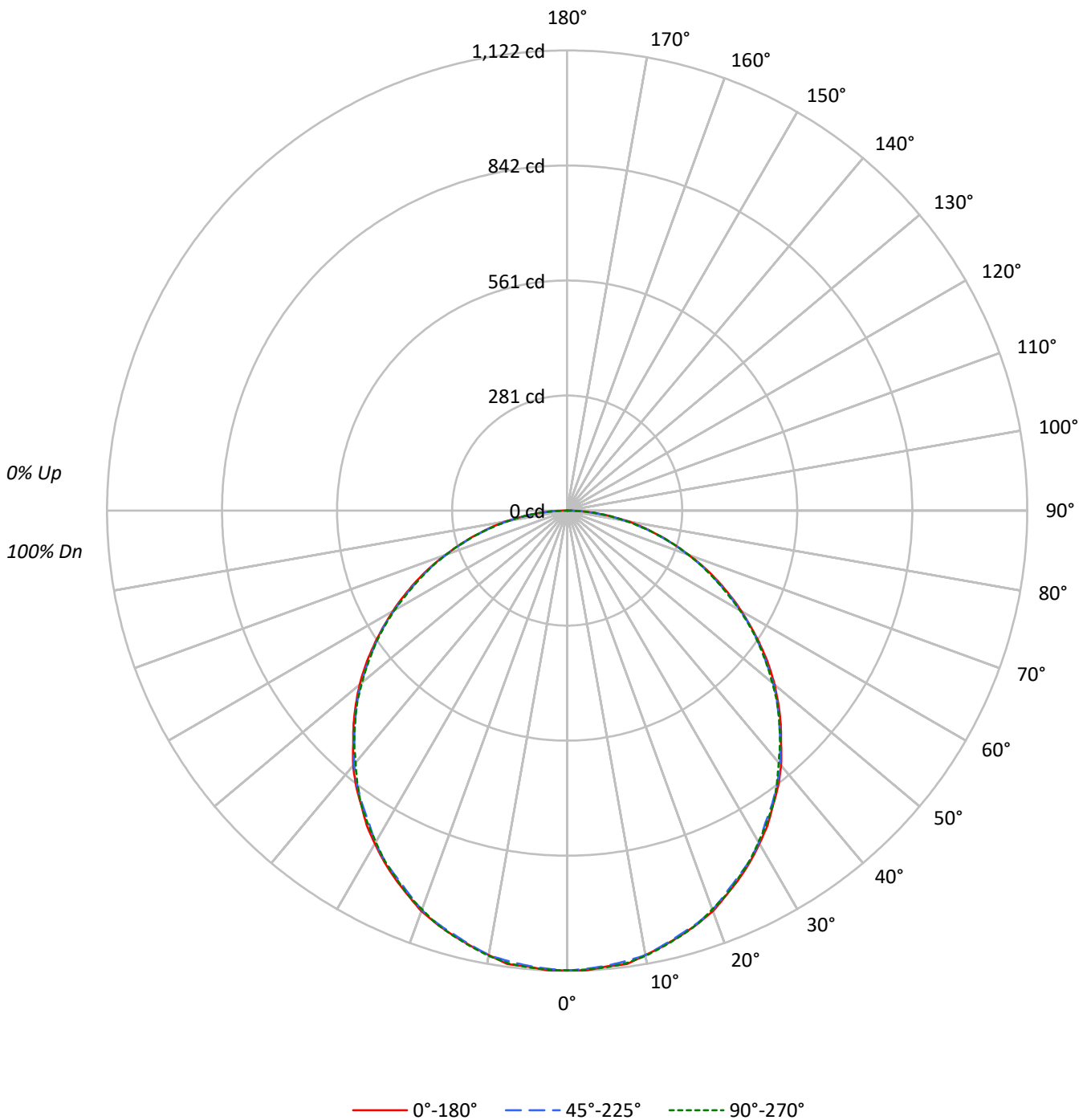
Input Watts (W): 29.481  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3017	3017	3017
5°	3013	3008	3018
10°	3007	3007	3012
15°	2987	2979	2990
20°	2976	2968	2963
25°	2943	2926	2935
30°	2914	2905	2899
35°	2876	2864	2876
40°	2851	2838	2818
45°	2802	2785	2785
50°	2764	2748	2732
55°	2705	2687	2683
60°	2642	2627	2617
65°	2575	2545	2533
70°	2471	2464	2471
75°	2386	2357	2376
80°	2362	2244	2230
85°	2090	2032	2062



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.0	3.3
10°-20°	302.6	9.4
20°-30°	455.7	14.2
30°-40°	546.8	17.1
40°-50°	565.8	17.7
50°-60°	512.7	16.0
60°-70°	397.4	12.4
70°-80°	241.3	7.5
80°-90°	74.7	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°	864.3	27.0
0°-40°	1411.1	44.1
0°-60°	2489.6	77.7
0°-90°	3203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3203.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1121	1121	1121	1121	1121	
5°	1115	1115	1114	1116	1117	106
15°	1072	1072	1069	1074	1073	303
25°	991	989	986	989	988	457
35°	876	876	872	873	876	549
45°	736	736	732	732	732	568
55°	576	576	573	572	572	516
65°	404	404	400	402	398	400
75°	230	228	227	227	228	244
85°	68	67	66	66	67	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1121.1	1121.1	1121.1	1121.1	1121.1
2.5°	1122.0	1117.3	1118.3	1120.1	1120.1
5°	1115.4	1115.4	1113.6	1116.4	1117.3
7.5°	1115.4	1110.7	1107.9	1110.7	1112.6
10°	1100.4	1098.5	1100.4	1099.4	1102.3
12.5°	1087.2	1085.3	1085.3	1088.2	1088.2
15°	1072.2	1072.2	1069.4	1074.1	1073.1
17.5°	1057.1	1057.1	1055.2	1055.2	1057.1
20°	1039.3	1034.6	1036.4	1035.5	1034.6
22.5°	1014.8	1012.0	1010.1	1012.9	1013.9
25°	991.3	989.4	985.6	989.4	988.5
27.5°	965.9	964.0	963.1	961.2	963.1
30°	937.7	935.8	934.9	933.0	933.0
32.5°	909.5	905.7	901.0	905.7	904.8
35°	875.6	875.6	871.8	872.8	875.6
37.5°	845.5	843.6	841.8	838.9	839.9
40°	811.7	808.8	807.9	806.0	802.2
42.5°	772.2	772.2	768.4	769.3	768.4
45°	736.4	735.5	731.7	731.7	731.7
47.5°	698.8	697.9	695.0	693.2	695.0
50°	660.2	656.5	656.5	653.6	652.7
52.5°	619.8	617.0	613.2	614.1	612.3
55°	576.5	575.6	572.8	571.8	571.8
57.5°	533.3	534.2	532.3	528.6	529.5
60°	490.9	490.0	488.1	486.2	486.2
62.5°	447.7	447.7	443.9	443.9	440.2
65°	404.4	404.4	399.7	401.6	397.8
67.5°	361.2	360.2	357.4	356.5	357.4
70°	314.1	315.1	313.2	313.2	314.1
72.5°	271.8	270.9	269.9	269.9	271.8
75°	229.5	228.5	226.7	226.7	228.5
77.5°	190.9	186.2	185.3	187.2	184.3
80°	152.4	145.8	144.8	143.9	143.9
82.5°	107.2	104.4	105.3	104.4	106.3
85°	67.7	66.8	65.8	65.8	66.8
87.5°	32.0	30.1	30.1	29.2	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)