

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: P292906

Luminaire Tested: **22GR-LD5-43-FGW080-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292906  
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-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: 3412.9 lumens  
Efficiency: N/A  
Efficacy: 94.3 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

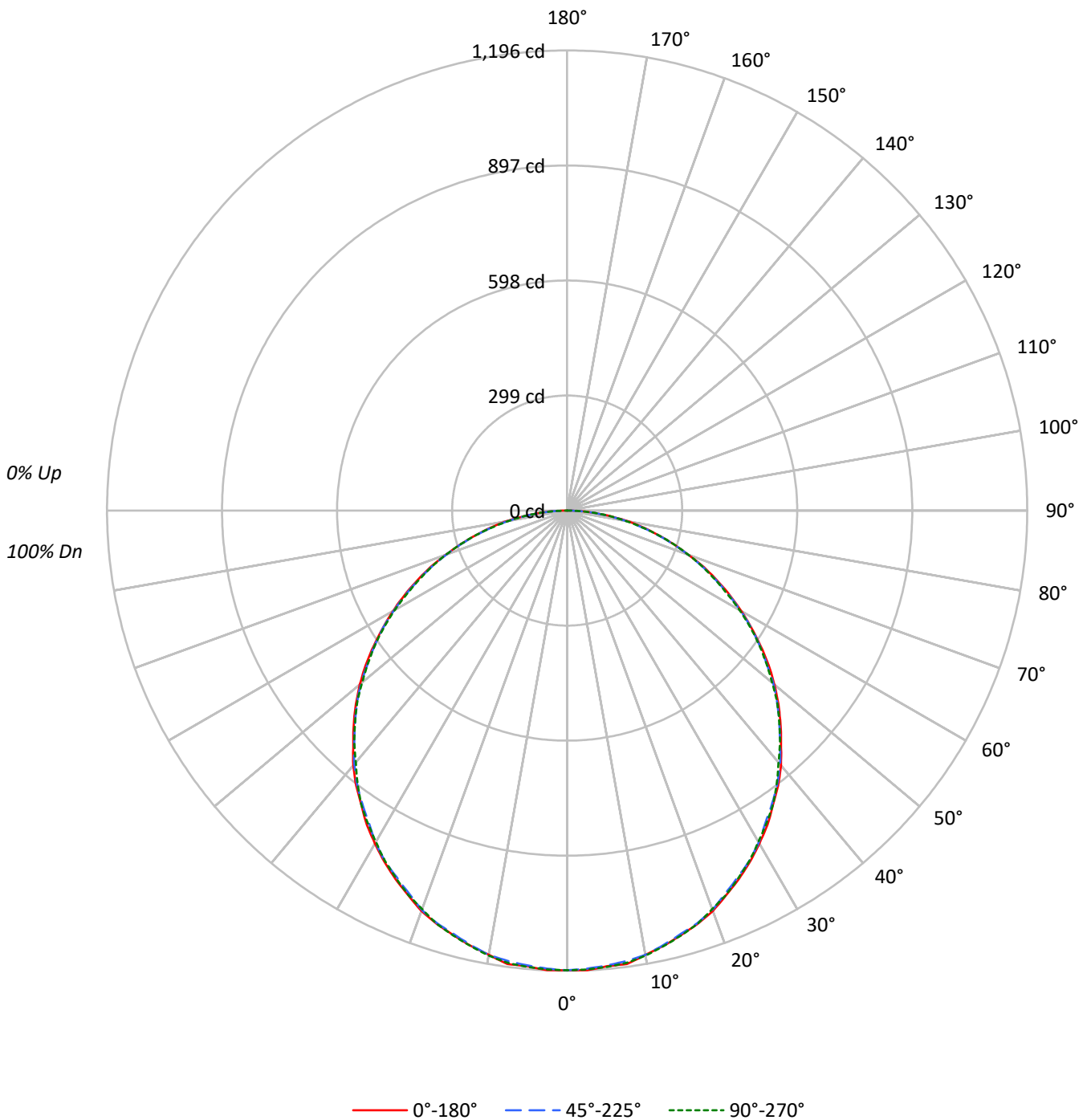
Input Watts (W): 36.177  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3215	3215	3215
5°	3211	3205	3216
10°	3204	3204	3209
15°	3183	3175	3186
20°	3171	3163	3157
25°	3136	3119	3127
30°	3105	3095	3089
35°	3065	3052	3065
40°	3038	3024	3003
45°	2986	2967	2967
50°	2945	2928	2912
55°	2882	2863	2859
60°	2815	2799	2788
65°	2744	2712	2699
70°	2633	2626	2633
75°	2542	2511	2532
80°	2517	2391	2376
85°	2229	2167	2198



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.0	3.3
10°-20°	322.4	9.4
20°-30°	485.5	14.2
30°-40°	582.7	17.1
40°-50°	602.9	17.7
50°-60°	546.3	16.0
60°-70°	423.5	12.4
70°-80°	257.1	7.5
80°-90°	79.6	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°	921.0	27.0
0°-40°	1503.6	44.1
0°-60°	2652.9	77.7
0°-90°	3412.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3412.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1195	1195	1195	1195	1195	
5°	1189	1189	1187	1190	1191	113
15°	1142	1142	1140	1144	1144	323
25°	1056	1054	1050	1054	1053	487
35°	933	933	929	930	933	585
45°	785	784	780	780	780	606
55°	614	613	610	609	609	549
65°	431	431	426	428	424	426
75°	244	244	242	242	244	260
85°	72	71	70	70	71	82
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1194.6	1194.6	1194.6	1194.6	1194.6
2.5°	1195.6	1190.6	1191.6	1193.6	1193.6
5°	1188.6	1188.6	1186.6	1189.6	1190.6
7.5°	1188.6	1183.6	1180.6	1183.6	1185.6
10°	1172.5	1170.5	1172.5	1171.5	1174.5
12.5°	1158.5	1156.5	1156.5	1159.5	1159.5
15°	1142.5	1142.5	1139.5	1144.5	1143.5
17.5°	1126.4	1126.4	1124.4	1124.4	1126.4
20°	1107.4	1102.4	1104.4	1103.4	1102.4
22.5°	1081.3	1078.3	1076.3	1079.3	1080.3
25°	1056.3	1054.3	1050.3	1054.3	1053.3
27.5°	1029.2	1027.2	1026.2	1024.2	1026.2
30°	999.2	997.2	996.2	994.1	994.1
32.5°	969.1	965.1	960.1	965.1	964.1
35°	933.0	933.0	929.0	930.0	933.0
37.5°	900.9	898.9	896.9	893.9	894.9
40°	864.9	861.9	860.9	858.9	854.8
42.5°	822.8	822.8	818.8	819.8	818.8
45°	784.7	783.7	779.7	779.7	779.7
47.5°	744.6	743.6	740.6	738.6	740.6
50°	703.5	699.5	699.5	696.5	695.5
52.5°	660.4	657.4	653.4	654.4	652.4
55°	614.3	613.3	610.3	609.3	609.3
57.5°	568.2	569.2	567.2	563.2	564.2
60°	523.1	522.1	520.1	518.1	518.1
62.5°	477.0	477.0	473.0	473.0	469.0
65°	430.9	430.9	425.9	427.9	423.9
67.5°	384.8	383.8	380.8	379.8	380.8
70°	334.7	335.7	333.7	333.7	334.7
72.5°	289.6	288.6	287.6	287.6	289.6
75°	244.5	243.5	241.5	241.5	243.5
77.5°	203.4	198.4	197.4	199.4	196.4
80°	162.4	155.3	154.3	153.3	153.3
82.5°	114.2	111.2	112.2	111.2	113.2
85°	72.2	71.2	70.2	70.2	71.2
87.5°	34.1	32.1	32.1	31.1	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)