

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: P292803

Luminaire Tested: **22GR-LD5-43-FGW080-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292803  
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-L82765-W2A1-U-3000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3433.0 lumens  
Efficiency: N/A  
Efficacy: 98.4 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

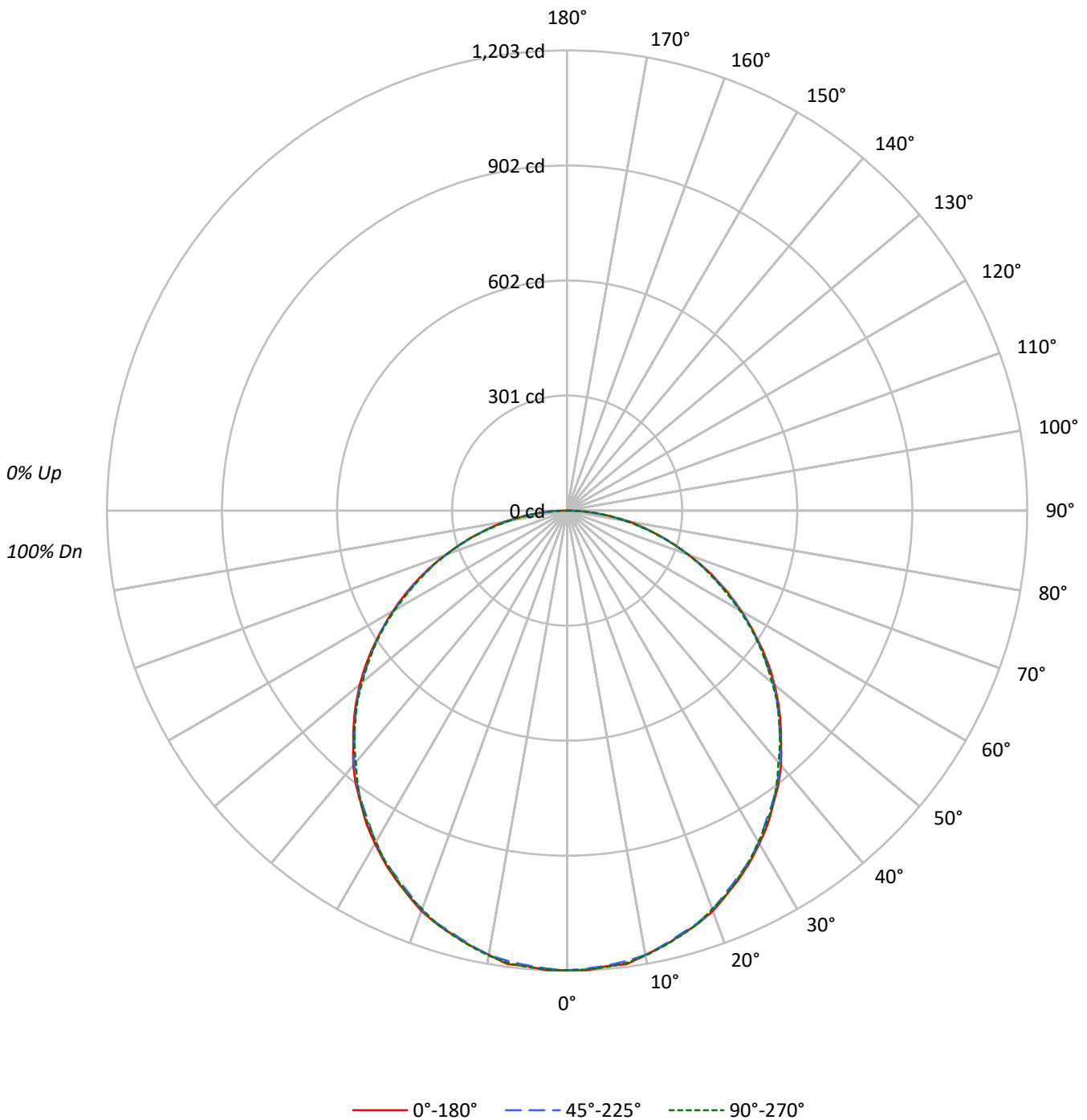
Input Watts (W): 34.875  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3233	3233	3233
5°	3229	3224	3235
10°	3223	3223	3228
15°	3202	3193	3204
20°	3190	3181	3175
25°	3155	3137	3146
30°	3123	3113	3107
35°	3083	3070	3083
40°	3056	3042	3021
45°	3004	2985	2985
50°	2962	2946	2929
55°	2899	2880	2875
60°	2832	2816	2805
65°	2760	2728	2715
70°	2649	2641	2649
75°	2558	2525	2547
80°	2531	2405	2390
85°	2242	2180	2211



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.7	3.3
10°-20°	324.3	9.4
20°-30°	488.4	14.2
30°-40°	586.1	17.1
40°-50°	606.4	17.7
50°-60°	549.5	16.0
60°-70°	426.0	12.4
70°-80°	258.6	7.5
80°-90°	80.0	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°	926.4	27.0
0°-40°	1512.5	44.1
0°-60°	2668.4	77.7
0°-90°	3433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3433.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1202	1202	1202	1202	1202	
5°	1196	1196	1194	1196	1198	114
15°	1149	1149	1146	1151	1150	325
25°	1062	1060	1056	1060	1059	490
35°	938	938	934	936	938	588
45°	789	788	784	784	784	609
55°	618	617	614	613	613	553
65°	434	434	428	430	426	429
75°	246	245	243	243	245	262
85°	73	72	71	71	72	83
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1201.6	1201.6	1201.6	1201.6	1201.6
2.5°	1202.6	1197.5	1198.6	1200.6	1200.6
5°	1195.5	1195.5	1193.5	1196.5	1197.5
7.5°	1195.5	1190.5	1187.5	1190.5	1192.5
10°	1179.4	1177.4	1179.4	1178.4	1181.4
12.5°	1165.3	1163.3	1163.3	1166.3	1166.3
15°	1149.2	1149.2	1146.1	1151.2	1150.2
17.5°	1133.0	1133.0	1131.0	1131.0	1133.0
20°	1113.9	1108.8	1110.9	1109.9	1108.8
22.5°	1087.7	1084.6	1082.6	1085.7	1086.7
25°	1062.5	1060.5	1056.4	1060.5	1059.4
27.5°	1035.3	1033.2	1032.2	1030.2	1032.2
30°	1005.0	1003.0	1002.0	1000.0	1000.0
32.5°	974.8	970.7	965.7	970.7	969.7
35°	938.5	938.5	934.5	935.5	938.5
37.5°	906.2	904.2	902.2	899.2	900.2
40°	869.9	866.9	865.9	863.9	859.9
42.5°	827.6	827.6	823.6	824.6	823.6
45°	789.3	788.3	784.3	784.3	784.3
47.5°	749.0	748.0	744.9	742.9	744.9
50°	707.6	703.6	703.6	700.6	699.6
52.5°	664.3	661.3	657.2	658.2	656.2
55°	617.9	616.9	613.9	612.9	612.9
57.5°	571.6	572.6	570.5	566.5	567.5
60°	526.2	525.2	523.2	521.2	521.2
62.5°	479.8	479.8	475.8	475.8	471.8
65°	433.5	433.5	428.4	430.4	426.4
67.5°	387.1	386.1	383.1	382.0	383.1
70°	336.7	337.7	335.7	335.7	336.7
72.5°	291.3	290.3	289.3	289.3	291.3
75°	246.0	245.0	242.9	242.9	245.0
77.5°	204.6	199.6	198.6	200.6	197.6
80°	163.3	156.2	155.2	154.2	154.2
82.5°	114.9	111.9	112.9	111.9	113.9
85°	72.6	71.6	70.6	70.6	71.6
87.5°	34.3	32.3	32.3	31.2	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)