

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: P292896

Luminaire Tested: **22GR-LD5-40-FGW080-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292896  
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-LD5-40-FGW080-UNV-L92765-W2A1-U-5000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3149.0 lumens  
Efficiency: N/A  
Efficacy: 95.1 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

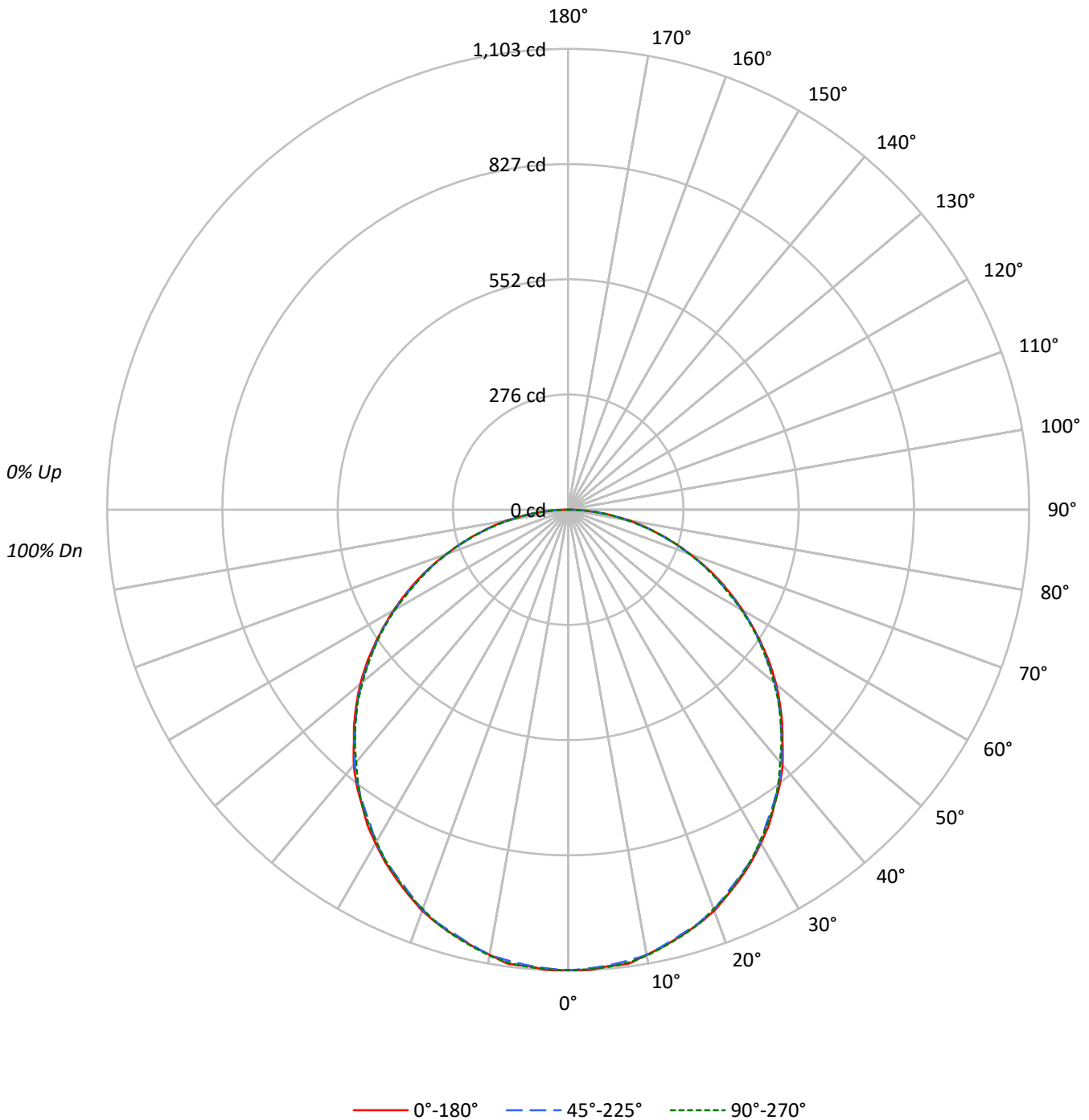
Input Watts (W): 33.108  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2966	2966	2966
5°	2962	2957	2967
10°	2956	2956	2961
15°	2937	2929	2939
20°	2926	2918	2913
25°	2894	2877	2885
30°	2865	2856	2850
35°	2828	2816	2828
40°	2803	2790	2771
45°	2755	2738	2738
50°	2717	2702	2686
55°	2659	2642	2638
60°	2598	2583	2573
65°	2532	2502	2490
70°	2430	2423	2430
75°	2346	2316	2336
80°	2321	2207	2193
85°	2056	1998	2025



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.3	3.3
10°-20°	297.5	9.4
20°-30°	448.0	14.2
30°-40°	537.6	17.1
40°-50°	556.3	17.7
50°-60°	504.1	16.0
60°-70°	390.7	12.4
70°-80°	237.2	7.5
80°-90°	73.4	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°	849.7	27.0
0°-40°	1387.3	44.1
0°-60°	2447.7	77.7
0°-90°	3149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3149.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1097	1097	1095	1098	1098	104
15°	1054	1054	1051	1056	1055	298
25°	975	973	969	973	972	449
35°	861	861	857	858	861	540
45°	724	723	719	719	719	559
55°	567	566	563	562	562	507
65°	398	398	393	395	391	393
75°	226	225	223	223	225	240
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°	1102.2	1102.2	1102.2	1102.2	1102.2
2.5°	1103.1	1098.5	1099.4	1101.3	1101.3
5°	1096.6	1096.6	1094.8	1097.6	1098.5
7.5°	1096.6	1092.0	1089.2	1092.0	1093.9
10°	1081.8	1080.0	1081.8	1080.9	1083.7
12.5°	1068.9	1067.0	1067.0	1069.8	1069.8
15°	1054.1	1054.1	1051.3	1055.9	1055.0
17.5°	1039.3	1039.3	1037.5	1037.5	1039.3
20°	1021.7	1017.1	1019.0	1018.0	1017.1
22.5°	997.7	994.9	993.1	995.8	996.8
25°	974.6	972.7	969.0	972.7	971.8
27.5°	949.6	947.8	946.8	945.0	946.8
30°	921.9	920.0	919.1	917.2	917.2
32.5°	894.1	890.4	885.8	890.4	889.5
35°	860.8	860.8	857.1	858.1	860.8
37.5°	831.3	829.4	827.6	824.8	825.7
40°	798.0	795.2	794.3	792.4	788.7
42.5°	759.1	759.1	755.4	756.4	755.4
45°	724.0	723.1	719.4	719.4	719.4
47.5°	687.0	686.1	683.3	681.5	683.3
50°	649.1	645.4	645.4	642.6	641.7
52.5°	609.3	606.6	602.9	603.8	601.9
55°	566.8	565.9	563.1	562.2	562.2
57.5°	524.3	525.2	523.4	519.7	520.6
60°	482.7	481.7	479.9	478.0	478.0
62.5°	440.1	440.1	436.4	436.4	432.7
65°	397.6	397.6	393.0	394.8	391.1
67.5°	355.1	354.1	351.4	350.4	351.4
70°	308.8	309.8	307.9	307.9	308.8
72.5°	267.2	266.3	265.4	265.4	267.2
75°	225.6	224.7	222.8	222.8	224.7
77.5°	187.7	183.1	182.2	184.0	181.2
80°	149.8	143.3	142.4	141.5	141.5
82.5°	105.4	102.6	103.6	102.6	104.5
85°	66.6	65.6	64.7	64.7	65.6
87.5°	31.4	29.6	29.6	28.7	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)