

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: P292794

Luminaire Tested: **22GR-LD5-40-FGW080-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292794  
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-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: 3216.0 lumens  
Efficiency: N/A  
Efficacy: 99.9 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

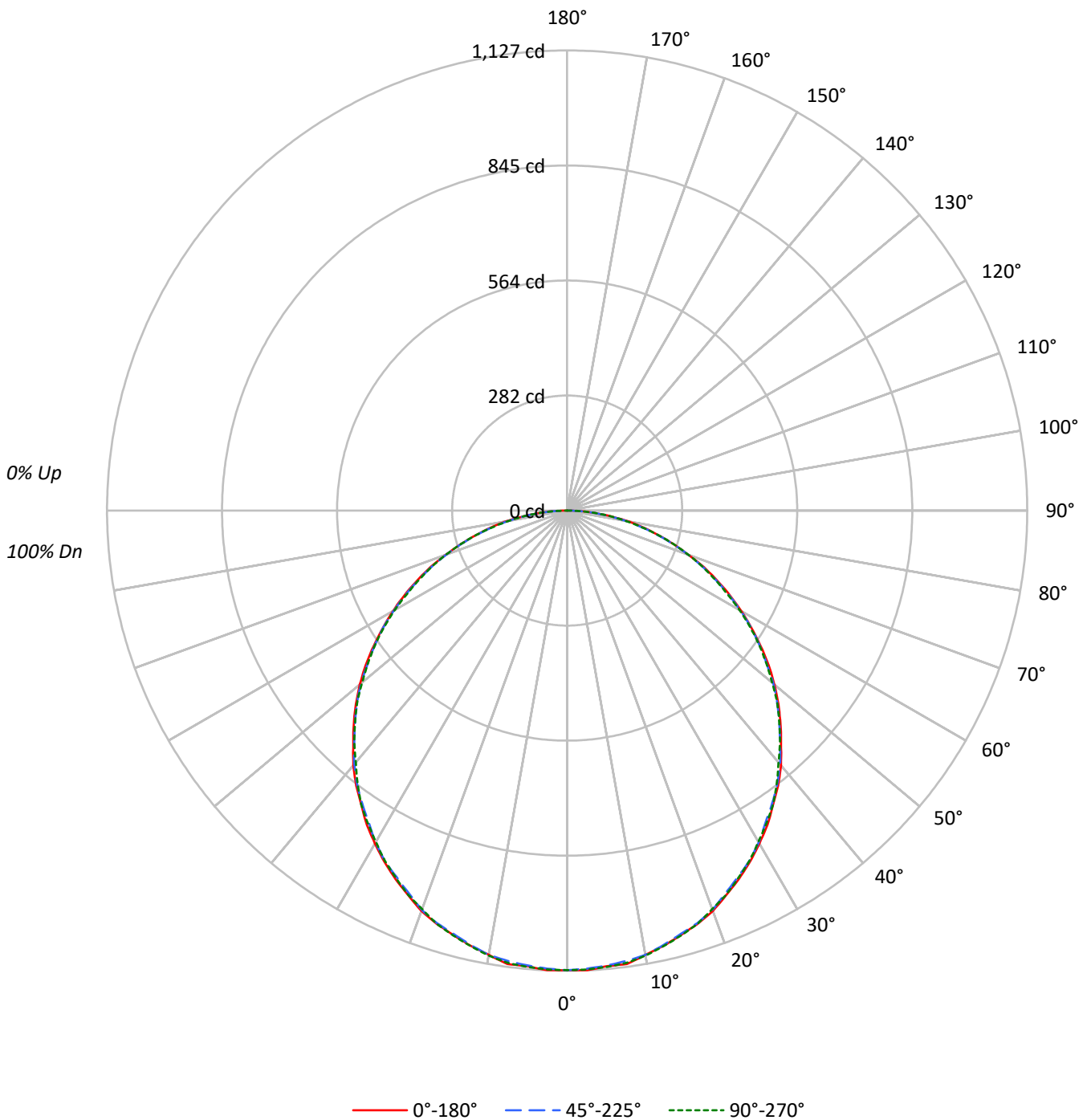
Input Watts (W): 32.178  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3029	3029	3029
5°	3025	3020	3031
10°	3019	3019	3024
15°	2999	2991	3002
20°	2988	2980	2975
25°	2955	2938	2947
30°	2925	2917	2911
35°	2888	2876	2888
40°	2863	2850	2830
45°	2814	2796	2796
50°	2775	2759	2744
55°	2716	2698	2693
60°	2653	2638	2627
65°	2586	2555	2543
70°	2482	2474	2482
75°	2396	2366	2386
80°	2371	2253	2239
85°	2100	2041	2069



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.5	3.3
10°-20°	303.8	9.4
20°-30°	457.5	14.2
30°-40°	549.0	17.1
40°-50°	568.1	17.7
50°-60°	514.8	16.0
60°-70°	399.0	12.4
70°-80°	242.3	7.5
80°-90°	75.0	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°	867.8	27.0
0°-40°	1416.9	44.1
0°-60°	2499.8	77.7
0°-90°	3216.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3216.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1120	1120	1118	1121	1122	107
15°	1076	1076	1074	1078	1078	304
25°	995	993	990	993	992	459
35°	879	879	875	876	879	551
45°	739	738	735	735	735	571
55°	579	578	575	574	574	518
65°	406	406	401	403	399	401
75°	230	230	228	228	230	245
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°	1125.6	1125.6	1125.6	1125.6	1125.6
2.5°	1126.6	1121.9	1122.8	1124.7	1124.7
5°	1120.0	1120.0	1118.1	1120.9	1121.9
7.5°	1120.0	1115.2	1112.4	1115.2	1117.1
10°	1104.9	1103.0	1104.9	1103.9	1106.7
12.5°	1091.6	1089.7	1089.7	1092.6	1092.6
15°	1076.5	1076.5	1073.7	1078.4	1077.5
17.5°	1061.4	1061.4	1059.5	1059.5	1061.4
20°	1043.5	1038.8	1040.6	1039.7	1038.8
22.5°	1018.9	1016.1	1014.2	1017.0	1018.0
25°	995.3	993.4	989.6	993.4	992.5
27.5°	969.8	967.9	967.0	965.1	967.0
30°	941.5	939.6	938.7	936.8	936.8
32.5°	913.2	909.4	904.7	909.4	908.4
35°	879.2	879.2	875.4	876.3	879.2
37.5°	848.9	847.1	845.2	842.3	843.3
40°	814.9	812.1	811.2	809.3	805.5
42.5°	775.3	775.3	771.5	772.5	771.5
45°	739.4	738.5	734.7	734.7	734.7
47.5°	701.6	700.7	697.9	696.0	697.9
50°	662.9	659.1	659.1	656.3	655.4
52.5°	622.3	619.5	615.7	616.6	614.8
55°	578.9	577.9	575.1	574.1	574.1
57.5°	535.4	536.4	534.5	530.7	531.7
60°	492.9	492.0	490.1	488.2	488.2
62.5°	449.5	449.5	445.7	445.7	441.9
65°	406.1	406.1	401.3	403.2	399.4
67.5°	362.6	361.7	358.8	357.9	358.8
70°	315.4	316.3	314.5	314.5	315.4
72.5°	272.9	272.0	271.0	271.0	272.9
75°	230.4	229.5	227.6	227.6	229.5
77.5°	191.7	187.0	186.0	187.9	185.1
80°	153.0	146.4	145.4	144.5	144.5
82.5°	107.7	104.8	105.8	104.8	106.7
85°	68.0	67.0	66.1	66.1	67.0
87.5°	32.1	30.2	30.2	29.3	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)