

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: P292738

Luminaire Tested: **22GR-LD5-40-FGW080-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292738  
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-L83050-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: 3219.0 lumens  
Efficiency: N/A  
Efficacy: 99.7 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

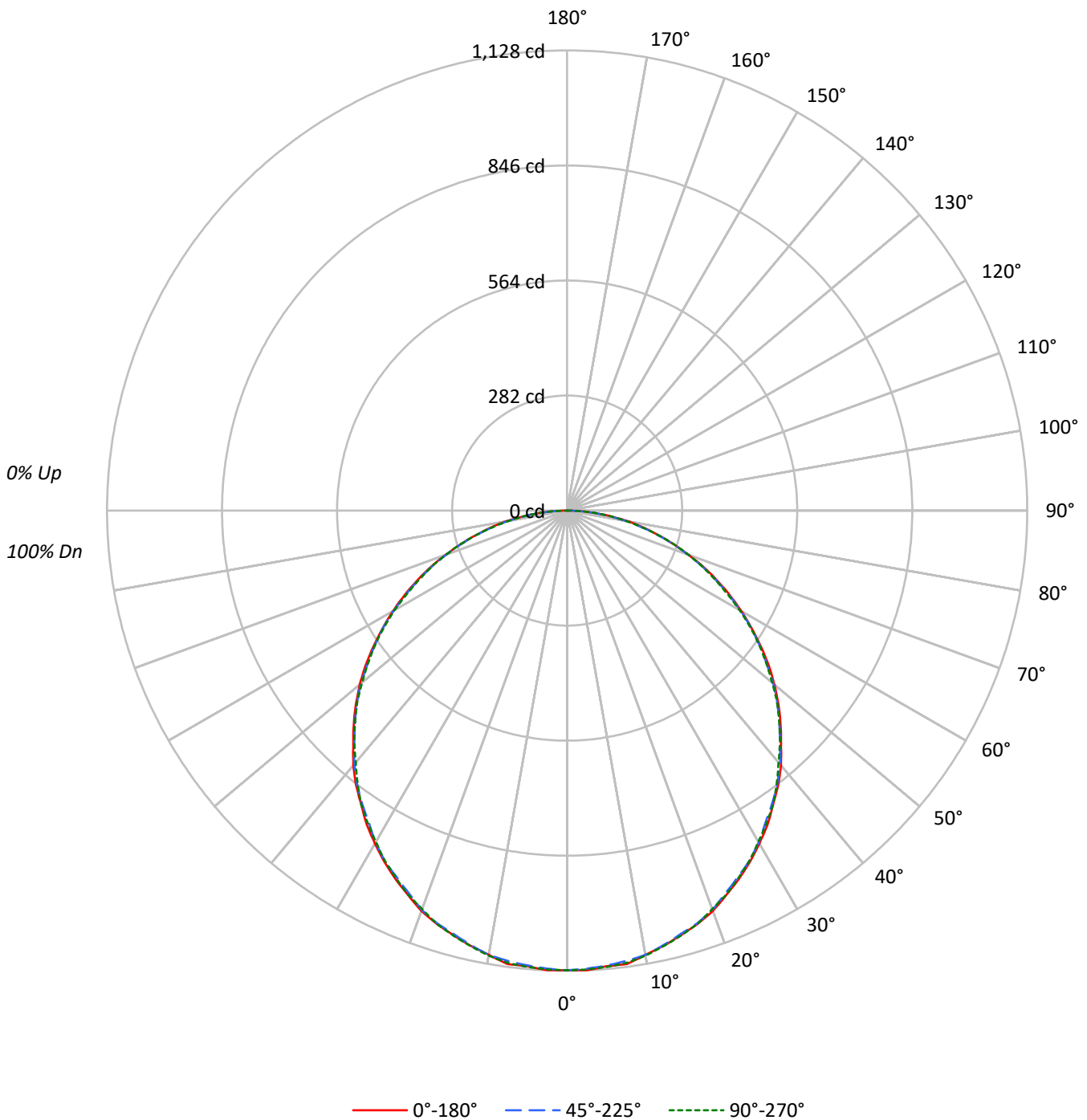
Input Watts (W): 32.271  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3032	3032	3032
5°	3028	3023	3033
10°	3022	3022	3027
15°	3002	2994	3005
20°	2991	2983	2977
25°	2958	2941	2950
30°	2928	2919	2913
35°	2891	2878	2891
40°	2865	2852	2832
45°	2817	2799	2799
50°	2778	2762	2746
55°	2718	2700	2696
60°	2655	2640	2630
65°	2588	2558	2546
70°	2484	2477	2484
75°	2398	2368	2388
80°	2373	2256	2241
85°	2103	2044	2072



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.6	3.3
10°-20°	304.1	9.4
20°-30°	457.9	14.2
30°-40°	549.5	17.1
40°-50°	568.6	17.7
50°-60°	515.3	16.0
60°-70°	399.4	12.4
70°-80°	242.5	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°	868.6	27.0
0°-40°	1418.2	44.1
0°-60°	2502.1	77.7
0°-90°	3219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3219.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1127	1127	1127	1127	1127	
5°	1121	1121	1119	1122	1123	107
15°	1078	1078	1075	1079	1078	304
25°	996	994	991	994	993	459
35°	880	880	876	877	880	552
45°	740	739	735	735	735	571
55°	579	578	576	575	575	518
65°	406	406	402	404	400	402
75°	231	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°	1126.7	1126.7	1126.7	1126.7	1126.7
2.5°	1127.6	1122.9	1123.8	1125.7	1125.7
5°	1121.0	1121.0	1119.1	1122.0	1122.9
7.5°	1121.0	1116.3	1113.4	1116.3	1118.2
10°	1105.9	1104.0	1105.9	1104.9	1107.8
12.5°	1092.7	1090.8	1090.8	1093.6	1093.6
15°	1077.5	1077.5	1074.7	1079.4	1078.5
17.5°	1062.4	1062.4	1060.5	1060.5	1062.4
20°	1044.4	1039.7	1041.6	1040.7	1039.7
22.5°	1019.9	1017.0	1015.1	1018.0	1018.9
25°	996.2	994.4	990.6	994.4	993.4
27.5°	970.7	968.8	967.9	966.0	967.9
30°	942.4	940.5	939.5	937.6	937.6
32.5°	914.0	910.2	905.5	910.2	909.3
35°	880.0	880.0	876.2	877.1	880.0
37.5°	849.7	847.8	846.0	843.1	844.1
40°	815.7	812.9	811.9	810.0	806.3
42.5°	776.0	776.0	772.2	773.2	772.2
45°	740.1	739.1	735.4	735.4	735.4
47.5°	702.3	701.3	698.5	696.6	698.5
50°	663.5	659.8	659.8	656.9	656.0
52.5°	622.9	620.1	616.3	617.2	615.3
55°	579.4	578.5	575.6	574.7	574.7
57.5°	535.9	536.9	535.0	531.2	532.1
60°	493.4	492.4	490.6	488.7	488.7
62.5°	449.9	449.9	446.1	446.1	442.4
65°	406.4	406.4	401.7	403.6	399.8
67.5°	363.0	362.0	359.2	358.2	359.2
70°	315.7	316.6	314.8	314.8	315.7
72.5°	273.2	272.2	271.3	271.3	273.2
75°	230.6	229.7	227.8	227.8	229.7
77.5°	191.9	187.1	186.2	188.1	185.3
80°	153.1	146.5	145.6	144.6	144.6
82.5°	107.8	104.9	105.9	104.9	106.8
85°	68.1	67.1	66.2	66.2	67.1
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)