

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: P292801

Luminaire Tested: **22GR-LD5-40-FGW080-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292801  
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-6500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3560.0 lumens  
Efficiency: N/A  
Efficacy: 105.5 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

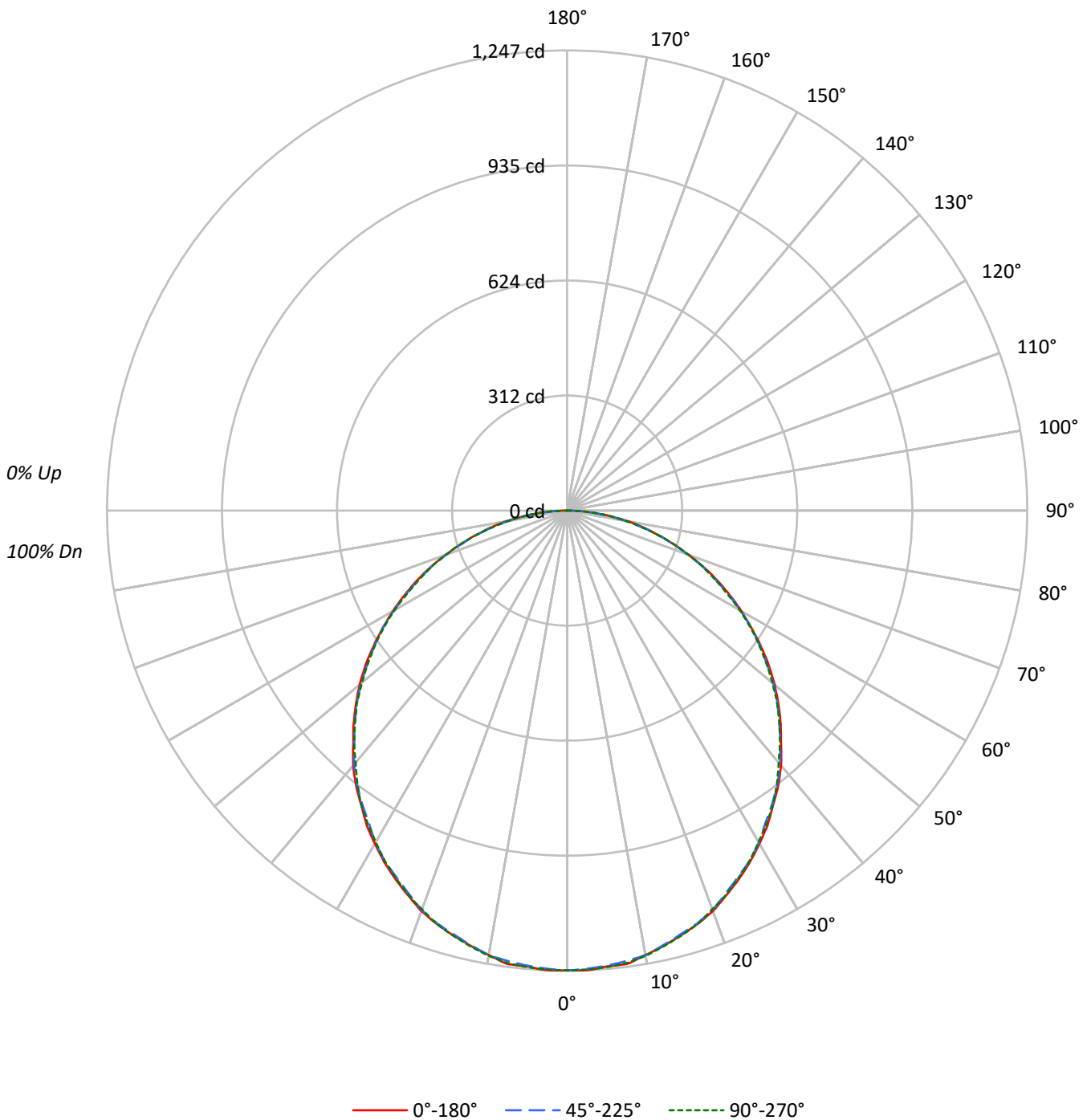
Input Watts (W): 33.759  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3353	3353	3353
5°	3349	3343	3355
10°	3342	3342	3348
15°	3320	3311	3323
20°	3308	3299	3293
25°	3271	3253	3262
30°	3238	3229	3222
35°	3197	3183	3197
40°	3169	3154	3132
45°	3115	3095	3095
50°	3072	3054	3037
55°	3006	2987	2982
60°	2937	2920	2908
65°	2862	2829	2816
70°	2747	2739	2747
75°	2652	2619	2641
80°	2624	2495	2478
85°	2325	2260	2291



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.9	3.3
10°-20°	336.3	9.4
20°-30°	506.4	14.2
30°-40°	607.8	17.1
40°-50°	628.9	17.7
50°-60°	569.9	16.0
60°-70°	441.7	12.4
70°-80°	268.2	7.5
80°-90°	83.0	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°	960.6	27.0
0°-40°	1568.4	44.1
0°-60°	2767.1	77.7
0°-90°	3560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3560.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1246	1246	1246	1246	1246	
5°	1240	1240	1238	1241	1242	118
15°	1192	1192	1188	1194	1193	337
25°	1102	1100	1096	1100	1099	508
35°	973	973	969	970	973	610
45°	818	817	813	813	813	632
55°	641	640	637	636	636	573
65°	450	450	444	446	442	444
75°	255	254	252	252	254	271
85°	75	74	73	73	74	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1246.0	1246.0	1246.0	1246.0	1246.0
2.5°	1247.1	1241.9	1242.9	1245.0	1245.0
5°	1239.8	1239.8	1237.7	1240.8	1241.9
7.5°	1239.8	1234.5	1231.4	1234.5	1236.6
10°	1223.0	1220.9	1223.0	1222.0	1225.1
12.5°	1208.4	1206.3	1206.3	1209.4	1209.4
15°	1191.7	1191.7	1188.5	1193.8	1192.7
17.5°	1175.0	1175.0	1172.9	1172.9	1175.0
20°	1155.1	1149.9	1152.0	1150.9	1149.9
22.5°	1127.9	1124.8	1122.7	1125.8	1126.9
25°	1101.8	1099.7	1095.5	1099.7	1098.6
27.5°	1073.6	1071.5	1070.4	1068.3	1070.4
30°	1042.2	1040.1	1039.1	1037.0	1037.0
32.5°	1010.8	1006.7	1001.4	1006.7	1005.6
35°	973.2	973.2	969.0	970.1	973.2
37.5°	939.8	937.7	935.6	932.4	933.5
40°	902.1	899.0	897.9	895.8	891.7
42.5°	858.2	858.2	854.0	855.1	854.0
45°	818.5	817.4	813.3	813.3	813.3
47.5°	776.7	775.6	772.5	770.4	772.5
50°	733.8	729.6	729.6	726.5	725.5
52.5°	688.9	685.7	681.6	682.6	680.5
55°	640.8	639.7	636.6	635.6	635.6
57.5°	592.7	593.7	591.7	587.5	588.5
60°	545.7	544.6	542.5	540.4	540.4
62.5°	497.6	497.6	493.4	493.4	489.2
65°	449.5	449.5	444.3	446.4	442.2
67.5°	401.4	400.4	397.2	396.2	397.2
70°	349.1	350.2	348.1	348.1	349.1
72.5°	302.1	301.1	300.0	300.0	302.1
75°	255.1	254.0	251.9	251.9	254.0
77.5°	212.2	207.0	205.9	208.0	204.9
80°	169.3	162.0	161.0	159.9	159.9
82.5°	119.2	116.0	117.1	116.0	118.1
85°	75.3	74.2	73.2	73.2	74.2
87.5°	35.5	33.5	33.5	32.4	32.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)