

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: P292878

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292878  
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-LD5-32-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: 2488.0 lumens  
Efficiency: N/A  
Efficacy: 99.1 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

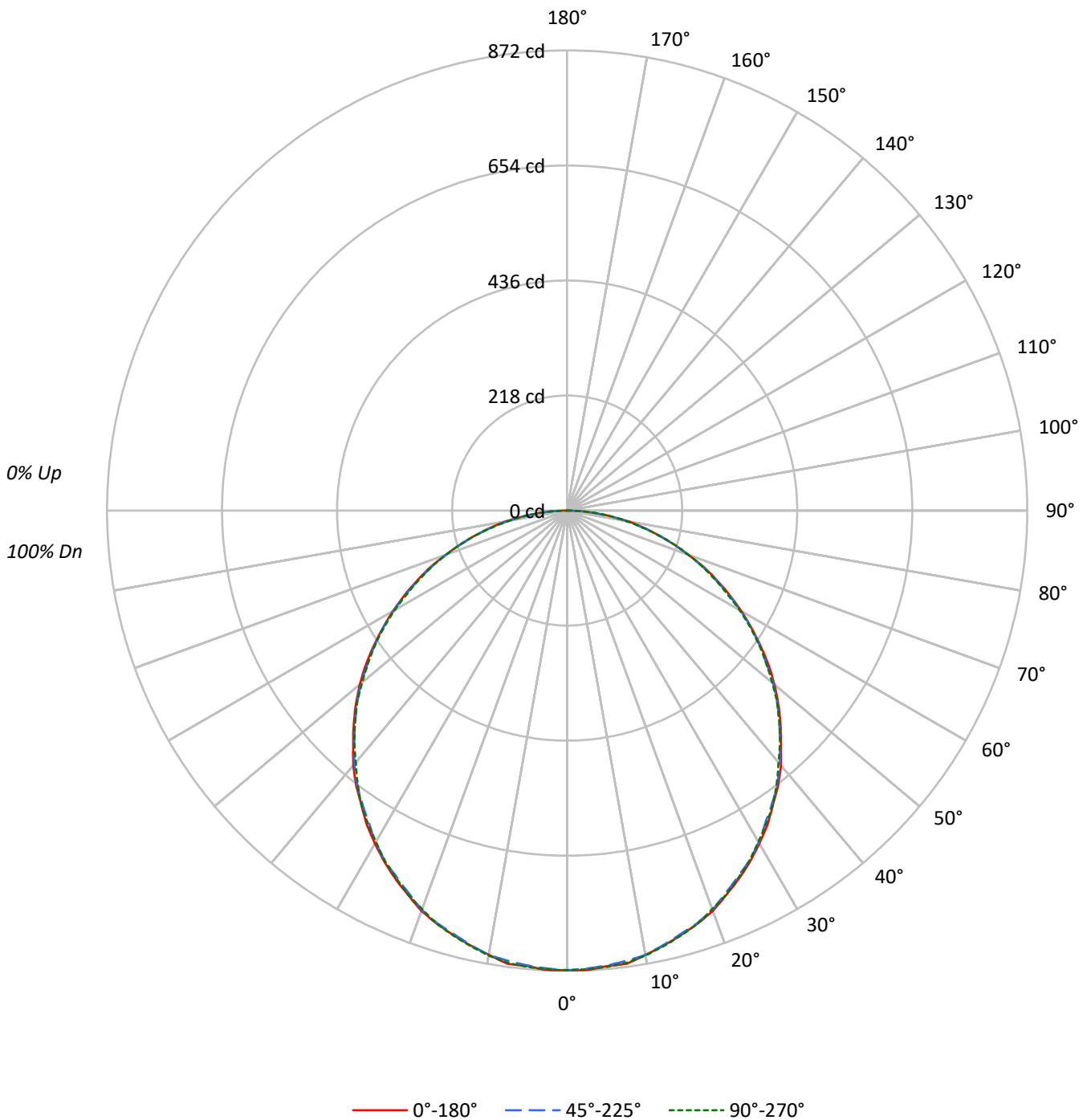
Input Watts (W): 25.11  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2343	2343	2343
5°	2340	2337	2344
10°	2336	2336	2340
15°	2320	2314	2322
20°	2312	2306	2301
25°	2286	2273	2280
30°	2263	2257	2252
35°	2234	2225	2234
40°	2215	2204	2189
45°	2177	2163	2163
50°	2147	2135	2123
55°	2101	2087	2084
60°	2053	2041	2033
65°	2000	1977	1968
70°	1920	1914	1920
75°	1854	1831	1845
80°	1835	1743	1733
85°	1624	1578	1602



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.4	3.3
10°-20°	235.0	9.4
20°-30°	353.9	14.2
30°-40°	424.7	17.1
40°-50°	439.5	17.7
50°-60°	398.3	16.0
60°-70°	308.7	12.4
70°-80°	187.4	7.5
80°-90°	58.0	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°	671.4	27.0
0°-40°	1096.1	44.1
0°-60°	1933.9	77.7
0°-90°	2488.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2488.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	871	871	871	871	871	
5°	866	866	865	867	868	83
15°	833	833	831	834	834	235
25°	770	768	766	768	768	355
35°	680	680	677	678	680	426
45°	572	571	568	568	568	441
55°	448	447	445	444	444	400
65°	314	314	310	312	309	311
75°	178	178	176	176	178	190
85°	53	52	51	51	52	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	870.8	870.8	870.8	870.8	870.8
2.5°	871.6	867.9	868.6	870.1	870.1
5°	866.4	866.4	865.0	867.2	867.9
7.5°	866.4	862.8	860.6	862.8	864.2
10°	854.8	853.3	854.8	854.0	856.2
12.5°	844.5	843.1	843.1	845.3	845.3
15°	832.8	832.8	830.6	834.3	833.6
17.5°	821.1	821.1	819.7	819.7	821.1
20°	807.3	803.6	805.1	804.3	803.6
22.5°	788.3	786.1	784.6	786.8	787.5
25°	770.0	768.5	765.6	768.5	767.8
27.5°	750.3	748.8	748.1	746.6	748.1
30°	728.4	726.9	726.2	724.7	724.7
32.5°	706.4	703.5	699.9	703.5	702.8
35°	680.1	680.1	677.2	678.0	680.1
37.5°	656.8	655.3	653.8	651.7	652.4
40°	630.5	628.3	627.5	626.1	623.2
42.5°	599.8	599.8	596.9	597.6	596.9
45°	572.0	571.3	568.4	568.4	568.4
47.5°	542.8	542.1	539.9	538.4	539.9
50°	512.9	509.9	509.9	507.7	507.0
52.5°	481.4	479.2	476.3	477.1	475.6
55°	447.8	447.1	444.9	444.2	444.2
57.5°	414.2	415.0	413.5	410.6	411.3
60°	381.4	380.6	379.2	377.7	377.7
62.5°	347.7	347.7	344.8	344.8	341.9
65°	314.1	314.1	310.5	311.9	309.0
67.5°	280.5	279.8	277.6	276.9	277.6
70°	244.0	244.7	243.3	243.3	244.0
72.5°	211.1	210.4	209.7	209.7	211.1
75°	178.3	177.5	176.1	176.1	177.5
77.5°	148.3	144.7	143.9	145.4	143.2
80°	118.4	113.2	112.5	111.8	111.8
82.5°	83.3	81.1	81.8	81.1	82.6
85°	52.6	51.9	51.1	51.1	51.9
87.5°	24.8	23.4	23.4	22.6	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)