

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: P292876

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292876  
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-4000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2377.0 lumens  
Efficiency: N/A  
Efficacy: 95.7 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

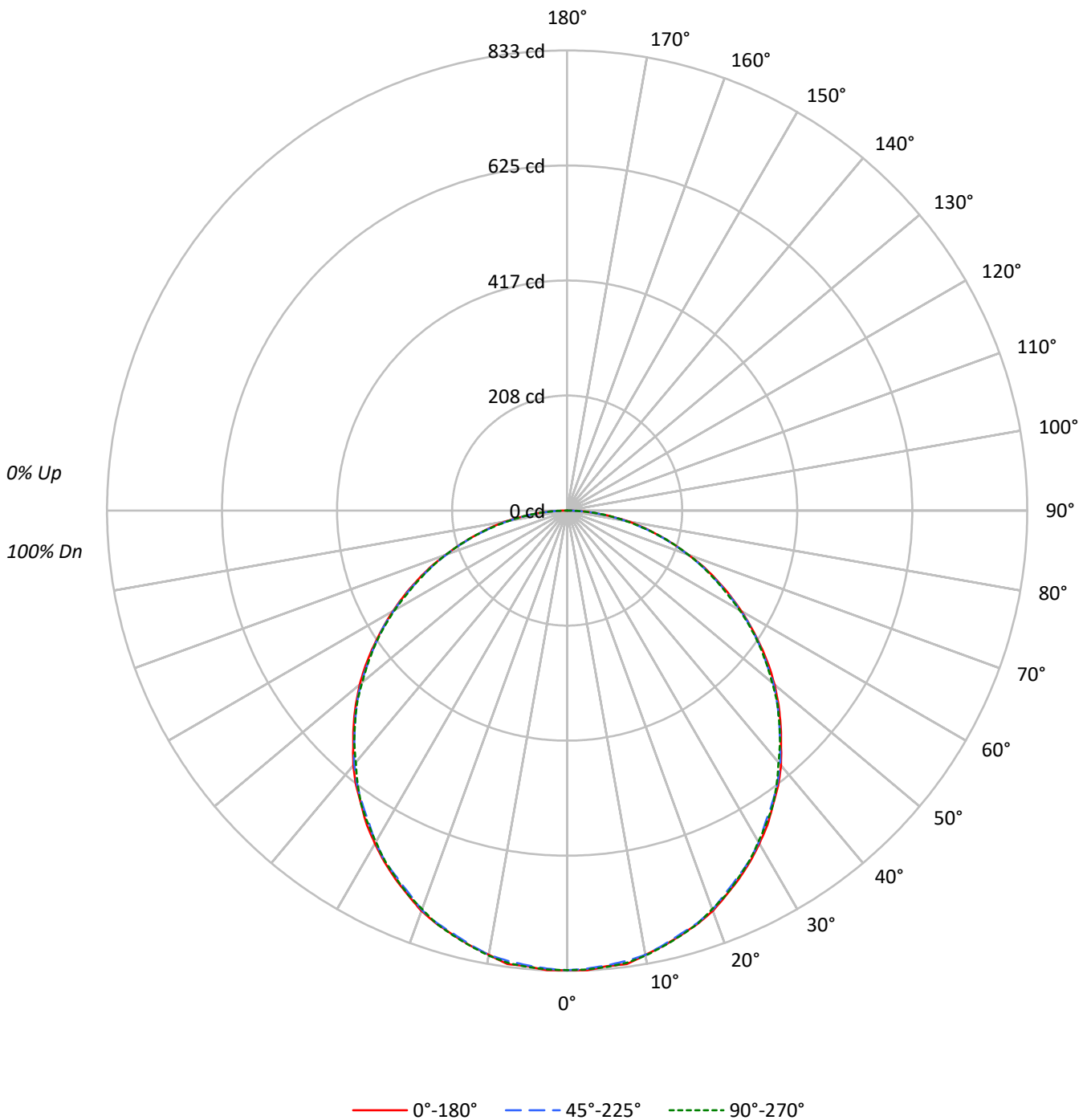
Input Watts (W): 24.831  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2239	2239	2239
5°	2236	2232	2240
10°	2231	2231	2235
15°	2217	2211	2219
20°	2208	2203	2199
25°	2184	2172	2178
30°	2162	2156	2151
35°	2135	2125	2135
40°	2116	2106	2092
45°	2080	2066	2066
50°	2051	2040	2028
55°	2008	1994	1991
60°	1961	1949	1942
65°	1911	1889	1880
70°	1834	1828	1834
75°	1771	1749	1763
80°	1753	1666	1655
85°	1553	1510	1531



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.7	3.3
10°-20°	224.6	9.4
20°-30°	338.2	14.2
30°-40°	405.8	17.1
40°-50°	419.9	17.7
50°-60°	380.5	16.0
60°-70°	294.9	12.4
70°-80°	179.0	7.5
80°-90°	55.4	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°	641.4	27.0
0°-40°	1047.2	44.1
0°-60°	1847.6	77.7
0°-90°	2377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2377.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	832	832	832	832	832	
5°	828	828	826	828	829	79
15°	796	796	794	797	796	225
25°	736	734	732	734	734	339
35°	650	650	647	648	650	407
45°	546	546	543	543	543	422
55°	428	427	425	424	424	383
65°	300	300	297	298	295	297
75°	170	170	168	168	170	181
85°	50	50	49	49	50	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	832.0	832.0	832.0	832.0	832.0
2.5°	832.7	829.2	829.9	831.3	831.3
5°	827.8	827.8	826.4	828.5	829.2
7.5°	827.8	824.3	822.2	824.3	825.7
10°	816.6	815.2	816.6	815.9	818.0
12.5°	806.8	805.4	805.4	807.5	807.5
15°	795.7	795.7	793.6	797.1	796.4
17.5°	784.5	784.5	783.1	783.1	784.5
20°	771.2	767.8	769.2	768.5	767.8
22.5°	753.1	751.0	749.6	751.7	752.4
25°	735.7	734.3	731.5	734.3	733.6
27.5°	716.8	715.4	714.7	713.3	714.7
30°	695.9	694.5	693.8	692.4	692.4
32.5°	674.9	672.1	668.6	672.1	671.4
35°	649.8	649.8	647.0	647.7	649.8
37.5°	627.5	626.1	624.7	622.6	623.3
40°	602.3	600.2	599.6	598.2	595.4
42.5°	573.0	573.0	570.2	570.9	570.2
45°	546.5	545.8	543.0	543.0	543.0
47.5°	518.6	517.9	515.8	514.4	515.8
50°	490.0	487.2	487.2	485.1	484.4
52.5°	460.0	457.9	455.1	455.8	454.4
55°	427.9	427.2	425.1	424.4	424.4
57.5°	395.7	396.4	395.0	392.3	393.0
60°	364.3	363.6	362.2	360.8	360.8
62.5°	332.2	332.2	329.4	329.4	326.6
65°	300.1	300.1	296.6	298.0	295.2
67.5°	268.0	267.3	265.2	264.5	265.2
70°	233.1	233.8	232.4	232.4	233.1
72.5°	201.7	201.0	200.3	200.3	201.7
75°	170.3	169.6	168.2	168.2	169.6
77.5°	141.7	138.2	137.5	138.9	136.8
80°	113.1	108.2	107.5	106.8	106.8
82.5°	79.6	77.5	78.2	77.5	78.9
85°	50.3	49.6	48.9	48.9	49.6
87.5°	23.7	22.3	22.3	21.6	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)