

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: P292777

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292777  
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-L82765-W2A1-U-3500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2629.0 lumens  
Efficiency: N/A  
Efficacy: 106.7 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

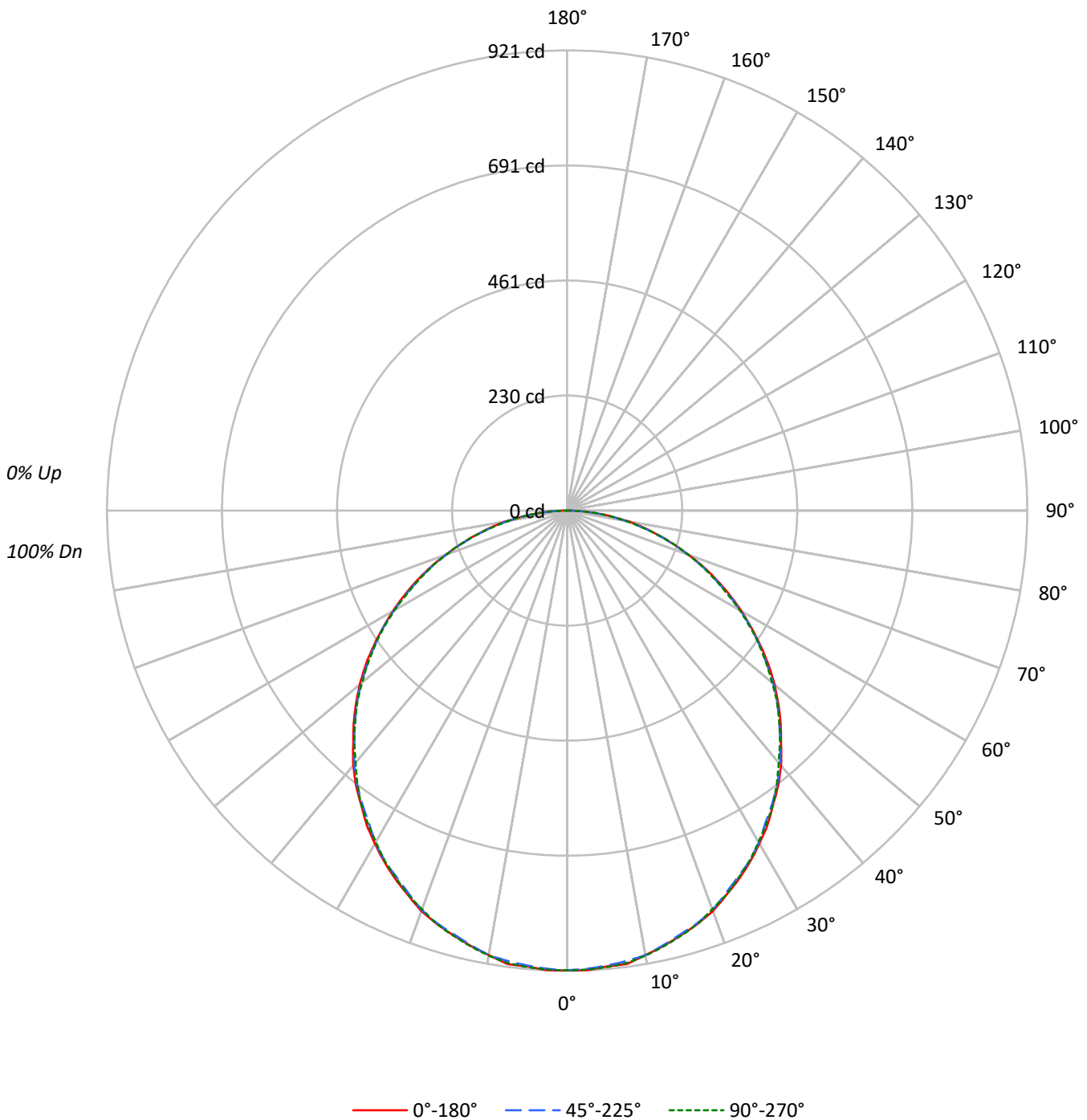
Input Watts (W): 24.645  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2476	2476	2476
5°	2473	2469	2477
10°	2468	2468	2472
15°	2452	2445	2454
20°	2443	2436	2432
25°	2416	2402	2409
30°	2391	2384	2380
35°	2361	2351	2361
40°	2340	2329	2313
45°	2300	2286	2286
50°	2269	2256	2243
55°	2220	2206	2202
60°	2169	2156	2148
65°	2113	2089	2079
70°	2028	2023	2028
75°	1959	1934	1951
80°	1939	1843	1830
85°	1717	1667	1692



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.0	3.3
10°-20°	248.4	9.4
20°-30°	374.0	14.2
30°-40°	448.8	17.1
40°-50°	464.4	17.7
50°-60°	420.8	16.0
60°-70°	326.2	12.4
70°-80°	198.0	7.5
80°-90°	61.3	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°	709.4	27.0
0°-40°	1158.2	44.1
0°-60°	2043.5	77.7
0°-90°	2629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2629.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	920	920	920	920	920	
5°	916	916	914	916	917	87
15°	880	880	878	882	881	249
25°	814	812	809	812	811	375
35°	719	719	716	716	719	451
45°	604	604	601	601	601	466
55°	473	472	470	469	469	423
65°	332	332	328	330	326	328
75°	188	188	186	186	188	200
85°	56	55	54	54	55	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	920.2	920.2	920.2	920.2	920.2
2.5°	920.9	917.1	917.9	919.4	919.4
5°	915.5	915.5	914.0	916.3	917.1
7.5°	915.5	911.7	909.4	911.7	913.2
10°	903.2	901.6	903.2	902.4	904.7
12.5°	892.4	890.8	890.8	893.2	893.2
15°	880.0	880.0	877.7	881.6	880.8
17.5°	867.7	867.7	866.1	866.1	867.7
20°	853.0	849.2	850.7	849.9	849.2
22.5°	832.9	830.6	829.1	831.4	832.2
25°	813.6	812.1	809.0	812.1	811.3
27.5°	792.8	791.3	790.5	788.9	790.5
30°	769.6	768.1	767.3	765.8	765.8
32.5°	746.5	743.4	739.5	743.4	742.6
35°	718.7	718.7	715.6	716.4	718.7
37.5°	694.0	692.4	690.9	688.6	689.4
40°	666.2	663.9	663.1	661.6	658.5
42.5°	633.8	633.8	630.7	631.5	630.7
45°	604.4	603.7	600.6	600.6	600.6
47.5°	573.6	572.8	570.5	568.9	570.5
50°	541.9	538.8	538.8	536.5	535.7
52.5°	508.7	506.4	503.3	504.1	502.5
55°	473.2	472.4	470.1	469.4	469.4
57.5°	437.7	438.5	436.9	433.8	434.6
60°	403.0	402.2	400.6	399.1	399.1
62.5°	367.5	367.5	364.4	364.4	361.3
65°	331.9	331.9	328.1	329.6	326.5
67.5°	296.4	295.7	293.3	292.6	293.3
70°	257.8	258.6	257.1	257.1	257.8
72.5°	223.1	222.3	221.6	221.6	223.1
75°	188.4	187.6	186.0	186.0	187.6
77.5°	156.7	152.8	152.1	153.6	151.3
80°	125.1	119.7	118.9	118.1	118.1
82.5°	88.0	85.7	86.5	85.7	87.2
85°	55.6	54.8	54.0	54.0	54.8
87.5°	26.2	24.7	24.7	23.9	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)