

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: P292877

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292877  
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-4500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2439.0 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

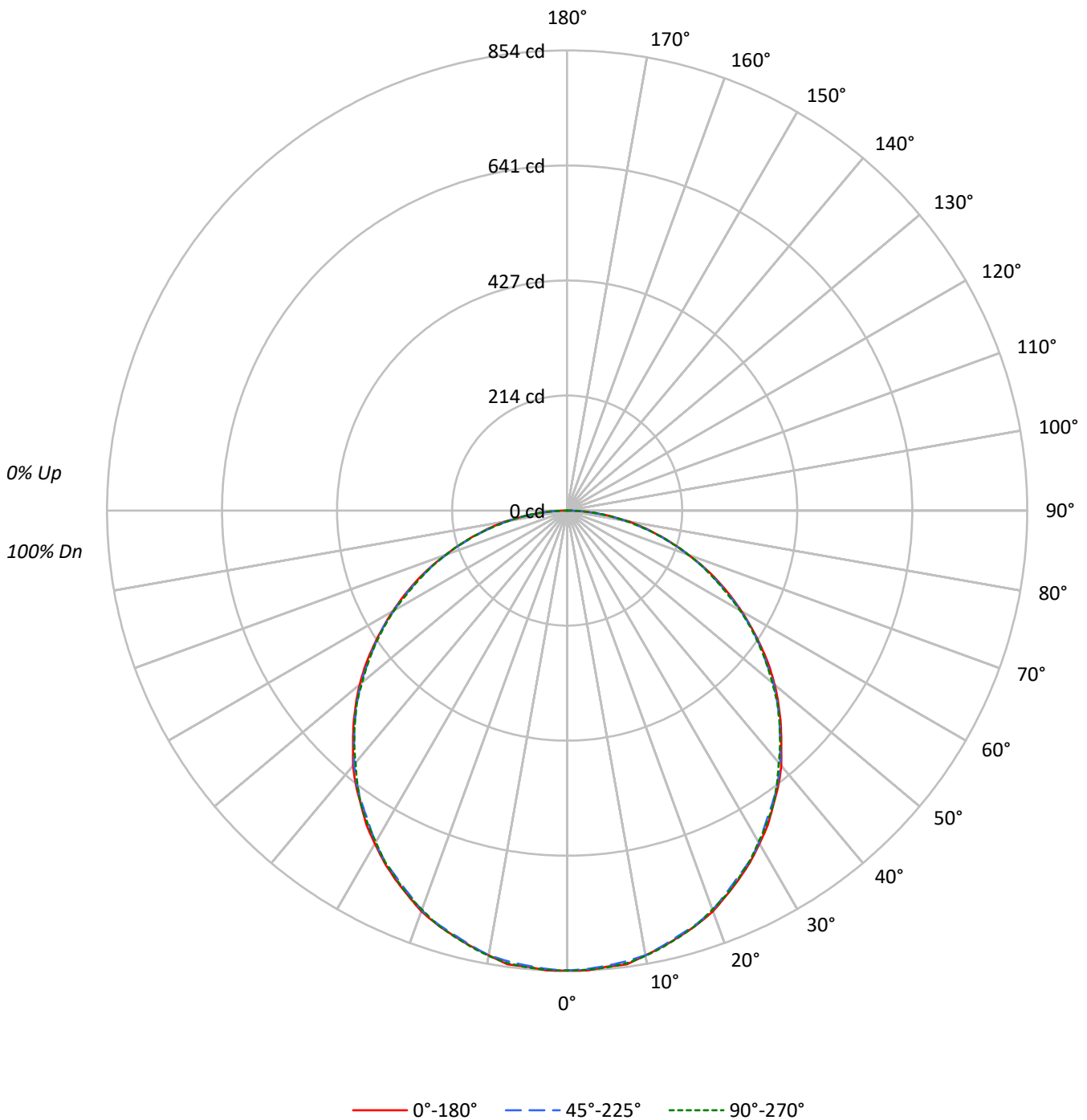
Input Watts (W): 25.017  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P292877

CATALOG NUMBER: 22GR-LD5-32-FGW080-UNV-L92765-W2A1-U-4500K

### Luminous Intensity Polar Plot





TEST NUMBER: P292877

CATALOG NUMBER: 22GR-LD5-32-FGW080-UNV-L92765-W2A1-U-4500K

**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°	2297	2297	2297
5°	2294	2290	2298
10°	2290	2290	2293
15°	2274	2269	2276
20°	2266	2260	2256
25°	2241	2228	2235
30°	2219	2212	2207
35°	2190	2181	2190
40°	2171	2161	2146
45°	2134	2120	2120
50°	2105	2093	2081
55°	2060	2046	2043
60°	2012	2000	1993
65°	1961	1938	1929
70°	1882	1876	1882
75°	1816	1795	1809
80°	1798	1709	1698
85°	1593	1547	1568



TEST NUMBER: P292877

CATALOG NUMBER: 22GR-LD5-32-FGW080-UNV-L92765-W2A1-U-4500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.8	3.3
10°-20°	230.4	9.4
20°-30°	347.0	14.2
30°-40°	416.4	17.1
40°-50°	430.8	17.7
50°-60°	390.4	16.0
60°-70°	302.6	12.4
70°-80°	183.7	7.5
80°-90°	56.8	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°	658.1	27.0
0°-40°	1074.5	44.1
0°-60°	1895.8	77.7
0°-90°	2439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2439.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	854	854	854	854	854	
5°	849	849	848	850	851	81
15°	816	816	814	818	817	231
25°	755	753	750	753	753	348
35°	667	667	664	665	667	418
45°	561	560	557	557	557	433
55°	439	438	436	435	435	393
65°	308	308	304	306	303	304
75°	175	174	173	173	174	186
85°	52	51	50	50	51	59
90°	0	0	0	0	0	



TEST NUMBER: P292877

CATALOG NUMBER: 22GR-LD5-32-FGW080-UNV-L92765-W2A1-U-4500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	853.7	853.7	853.7	853.7	853.7
2.5°	854.4	850.8	851.5	853.0	853.0
5°	849.4	849.4	847.9	850.1	850.8
7.5°	849.4	845.8	843.6	845.8	847.2
10°	837.9	836.5	837.9	837.2	839.3
12.5°	827.9	826.5	826.5	828.6	828.6
15°	816.4	816.4	814.3	817.9	817.1
17.5°	805.0	805.0	803.5	803.5	805.0
20°	791.4	787.8	789.2	788.5	787.8
22.5°	772.7	770.6	769.2	771.3	772.0
25°	754.8	753.4	750.5	753.4	752.7
27.5°	735.5	734.1	733.4	731.9	733.4
30°	714.0	712.6	711.9	710.4	710.4
32.5°	692.5	689.7	686.1	689.7	689.0
35°	666.8	666.8	663.9	664.6	666.8
37.5°	643.8	642.4	641.0	638.8	639.5
40°	618.1	615.9	615.2	613.8	610.9
42.5°	588.0	588.0	585.1	585.8	585.1
45°	560.8	560.0	557.2	557.2	557.2
47.5°	532.1	531.4	529.2	527.8	529.2
50°	502.8	499.9	499.9	497.7	497.0
52.5°	472.0	469.8	466.9	467.7	466.2
55°	439.0	438.3	436.1	435.4	435.4
57.5°	406.1	406.8	405.4	402.5	403.2
60°	373.8	373.1	371.7	370.3	370.3
62.5°	340.9	340.9	338.0	338.0	335.2
65°	308.0	308.0	304.4	305.8	302.9
67.5°	275.0	274.3	272.1	271.4	272.1
70°	239.2	239.9	238.5	238.5	239.2
72.5°	207.0	206.3	205.5	205.5	207.0
75°	174.7	174.0	172.6	172.6	174.0
77.5°	145.4	141.8	141.1	142.5	140.4
80°	116.0	111.0	110.3	109.6	109.6
82.5°	81.6	79.5	80.2	79.5	80.9
85°	51.6	50.8	50.1	50.1	50.8
87.5°	24.3	22.9	22.9	22.2	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)