

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: P292890

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292890  
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-LD5-36-FGW080-UNV-L92765-W2A1-U-6500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2868.0 lumens  
Efficiency: N/A  
Efficacy: 97.6 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

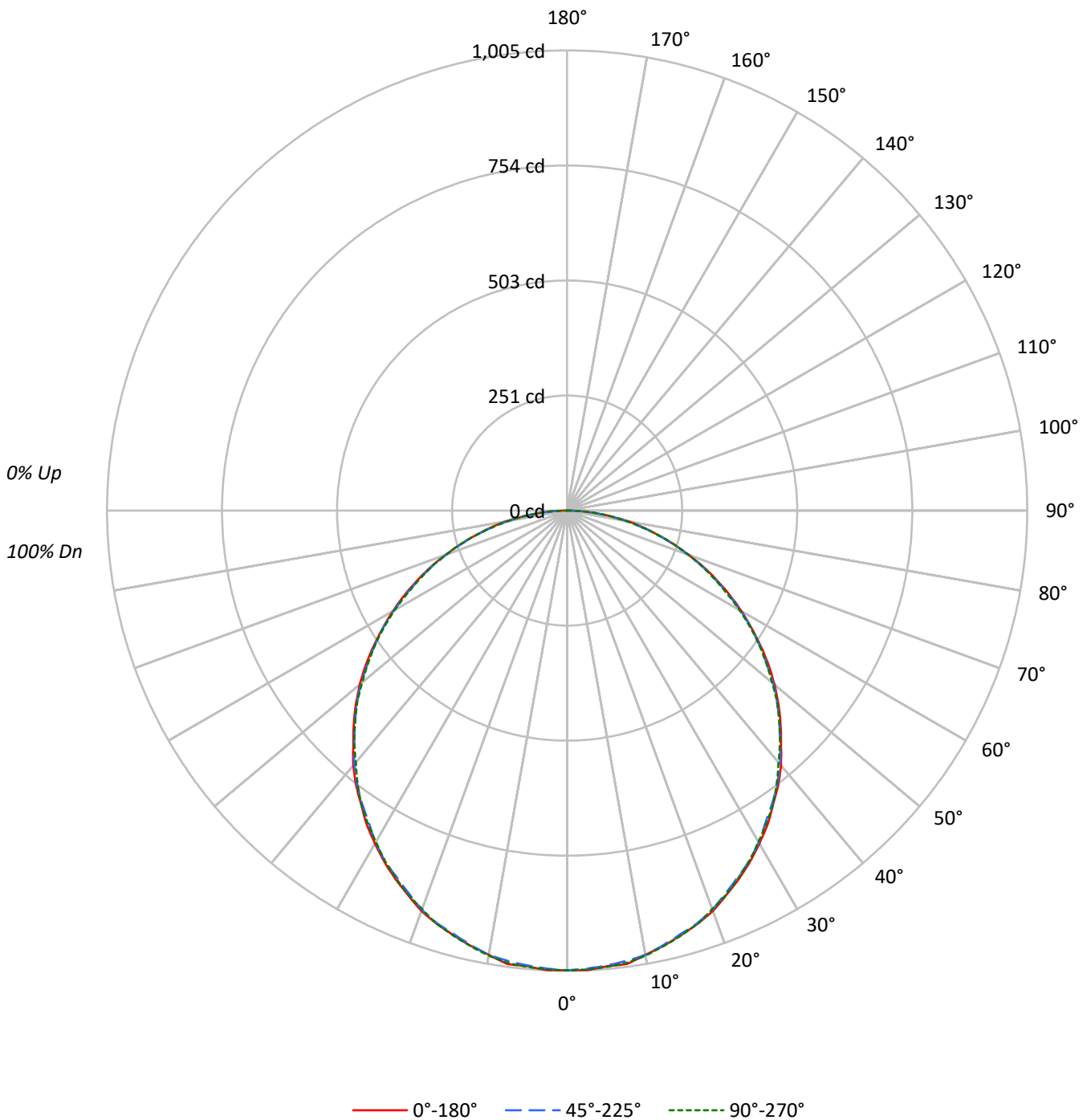
Input Watts (W): 29.388  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2701	2701	2701
5°	2698	2693	2703
10°	2692	2692	2697
15°	2674	2668	2677
20°	2665	2657	2653
25°	2635	2621	2628
30°	2609	2601	2596
35°	2576	2565	2576
40°	2553	2541	2523
45°	2509	2493	2493
50°	2475	2461	2447
55°	2422	2406	2402
60°	2366	2352	2343
65°	2306	2279	2268
70°	2213	2206	2213
75°	2137	2111	2127
80°	2114	2010	1996
85°	1871	1819	1846



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.0	3.3
10°-20°	271.0	9.4
20°-30°	408.0	14.2
30°-40°	489.6	17.1
40°-50°	506.6	17.7
50°-60°	459.1	16.0
60°-70°	355.9	12.4
70°-80°	216.0	7.5
80°-90°	66.8	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°	773.9	27.0
0°-40°	1263.5	44.1
0°-60°	2229.3	77.7
0°-90°	2868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2868.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1004	1004	1004	1004	1004	
5°	999	999	997	1000	1000	95
15°	960	960	958	962	961	271
25°	888	886	883	886	885	409
35°	784	784	781	782	784	492
45°	659	659	655	655	655	509
55°	516	515	513	512	512	462
65°	362	362	358	360	356	358
75°	206	205	203	203	205	219
85°	61	60	59	59	60	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1003.8	1003.8	1003.8	1003.8	1003.8
2.5°	1004.7	1000.5	1001.3	1003.0	1003.0
5°	998.8	998.8	997.1	999.6	1000.5
7.5°	998.8	994.6	992.0	994.6	996.2
10°	985.3	983.6	985.3	984.5	987.0
12.5°	973.5	971.8	971.8	974.4	974.4
15°	960.0	960.0	957.5	961.7	960.9
17.5°	946.6	946.6	944.9	944.9	946.6
20°	930.6	926.4	928.0	927.2	926.4
22.5°	908.7	906.1	904.5	907.0	907.8
25°	887.6	885.9	882.6	885.9	885.1
27.5°	864.9	863.2	862.3	860.7	862.3
30°	839.6	837.9	837.1	835.4	835.4
32.5°	814.3	811.0	806.8	811.0	810.1
35°	784.0	784.0	780.7	781.5	784.0
37.5°	757.1	755.4	753.7	751.2	752.0
40°	726.8	724.2	723.4	721.7	718.3
42.5°	691.4	691.4	688.0	688.9	688.0
45°	659.4	658.6	655.2	655.2	655.2
47.5°	625.7	624.9	622.3	620.7	622.3
50°	591.2	587.8	587.8	585.3	584.4
52.5°	555.0	552.4	549.1	549.9	548.2
55°	516.2	515.4	512.9	512.0	512.0
57.5°	477.5	478.3	476.6	473.3	474.1
60°	439.6	438.8	437.1	435.4	435.4
62.5°	400.9	400.9	397.5	397.5	394.1
65°	362.1	362.1	357.9	359.6	356.2
67.5°	323.4	322.5	320.0	319.2	320.0
70°	281.3	282.1	280.4	280.4	281.3
72.5°	243.4	242.5	241.7	241.7	243.4
75°	205.5	204.6	203.0	203.0	204.6
77.5°	171.0	166.7	165.9	167.6	165.1
80°	136.4	130.5	129.7	128.8	128.8
82.5°	96.0	93.5	94.3	93.5	95.2
85°	60.6	59.8	58.9	58.9	59.8
87.5°	28.6	26.9	26.9	26.1	26.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)