

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: P292872

Luminaire Tested: **22GR-LD5-28-FGW080-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292872  
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-LD5-28-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: 2313.0 lumens  
Efficiency: N/A  
Efficacy: 100.3 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

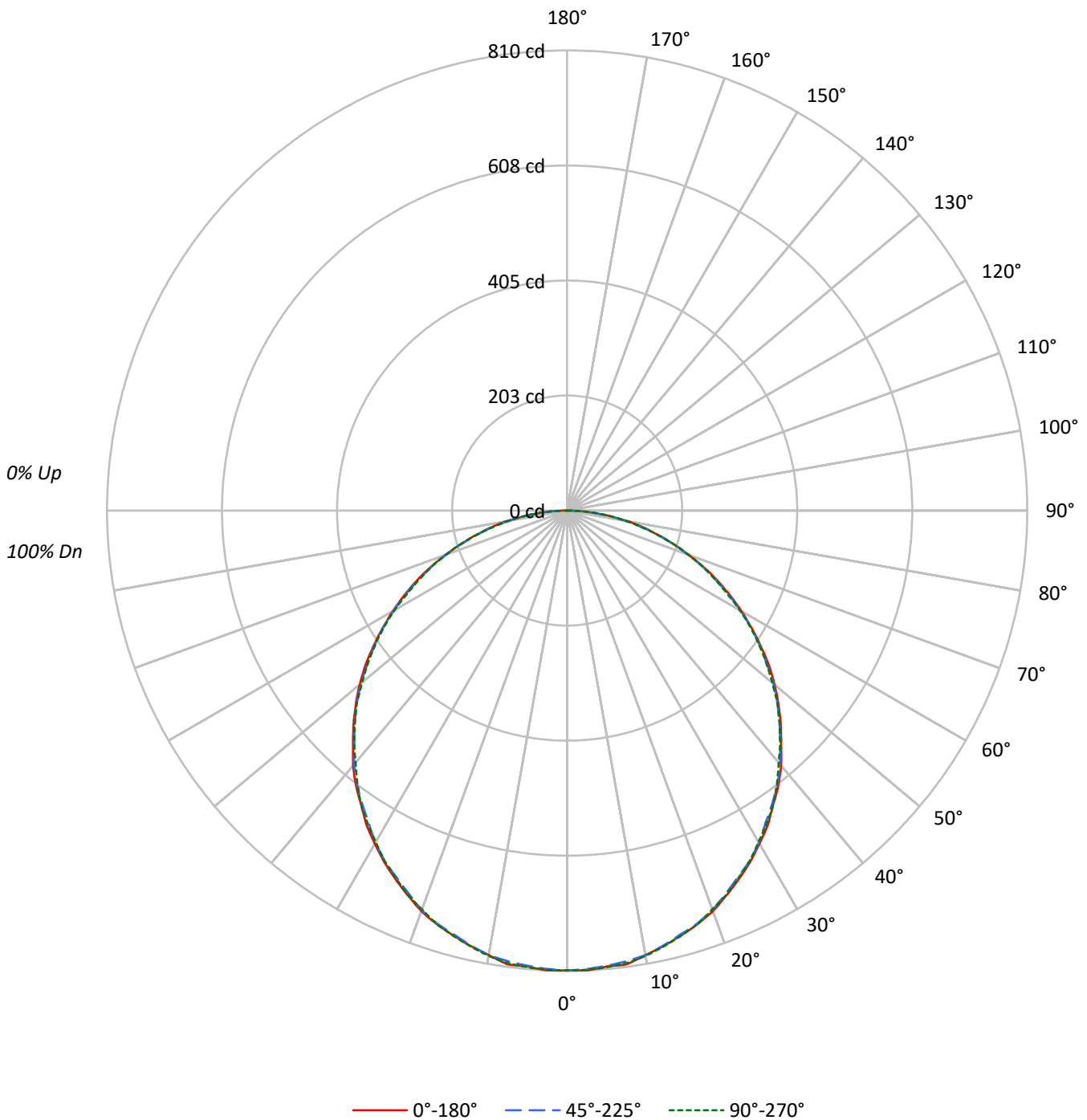
Input Watts (W): 23.064  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2179	2179	2179
5°	2176	2172	2180
10°	2171	2171	2175
15°	2157	2151	2159
20°	2149	2143	2139
25°	2125	2113	2119
30°	2104	2098	2093
35°	2077	2068	2077
40°	2059	2049	2035
45°	2024	2011	2011
50°	1996	1985	1973
55°	1953	1940	1937
60°	1908	1897	1890
65°	1859	1838	1829
70°	1784	1780	1784
75°	1723	1702	1716
80°	1705	1621	1610
85°	1510	1467	1488



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.6	3.3
10°-20°	218.5	9.4
20°-30°	329.0	14.2
30°-40°	394.9	17.1
40°-50°	408.6	17.7
50°-60°	370.2	16.0
60°-70°	287.0	12.4
70°-80°	174.2	7.5
80°-90°	53.9	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°	624.1	27.0
0°-40°	1019.0	44.1
0°-60°	1797.8	77.7
0°-90°	2313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2313.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	810	810	810	810	810	
5°	806	806	804	806	807	77
15°	774	774	772	776	775	219
25°	716	714	712	714	714	330
35°	632	632	630	630	632	396
45°	532	531	528	528	528	410
55°	416	416	414	413	413	372
65°	292	292	289	290	287	289
75°	166	165	164	164	165	176
85°	49	48	48	48	48	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	809.6	809.6	809.6	809.6	809.6
2.5°	810.3	806.9	807.5	808.9	808.9
5°	805.5	805.5	804.1	806.2	806.9
7.5°	805.5	802.1	800.1	802.1	803.5
10°	794.6	793.3	794.6	794.0	796.0
12.5°	785.1	783.8	783.8	785.8	785.8
15°	774.3	774.3	772.2	775.6	774.9
17.5°	763.4	763.4	762.0	762.0	763.4
20°	750.5	747.1	748.4	747.8	747.1
22.5°	732.8	730.8	729.4	731.5	732.1
25°	715.8	714.5	711.8	714.5	713.8
27.5°	697.5	696.2	695.5	694.1	695.5
30°	677.1	675.8	675.1	673.7	673.7
32.5°	656.8	654.0	650.6	654.0	653.4
35°	632.3	632.3	629.6	630.3	632.3
37.5°	610.6	609.2	607.9	605.8	606.5
40°	586.1	584.1	583.4	582.0	579.3
42.5°	557.6	557.6	554.9	555.6	554.9
45°	531.8	531.1	528.4	528.4	528.4
47.5°	504.6	503.9	501.9	500.5	501.9
50°	476.8	474.1	474.1	472.0	471.3
52.5°	447.6	445.5	442.8	443.5	442.1
55°	416.3	415.7	413.6	412.9	412.9
57.5°	385.1	385.8	384.4	381.7	382.4
60°	354.5	353.8	352.5	351.1	351.1
62.5°	323.3	323.3	320.6	320.6	317.9
65°	292.0	292.0	288.6	290.0	287.3
67.5°	260.8	260.1	258.1	257.4	258.1
70°	226.8	227.5	226.2	226.2	226.8
72.5°	196.3	195.6	194.9	194.9	196.3
75°	165.7	165.0	163.7	163.7	165.0
77.5°	137.9	134.5	133.8	135.2	133.1
80°	110.0	105.3	104.6	103.9	103.9
82.5°	77.4	75.4	76.1	75.4	76.7
85°	48.9	48.2	47.5	47.5	48.2
87.5°	23.1	21.7	21.7	21.1	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)