

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: P292867

Luminaire Tested: **22GR-LD5-28-FGW080-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292867  
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-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: 2153.0 lumens  
Efficiency: N/A  
Efficacy: 96.5 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

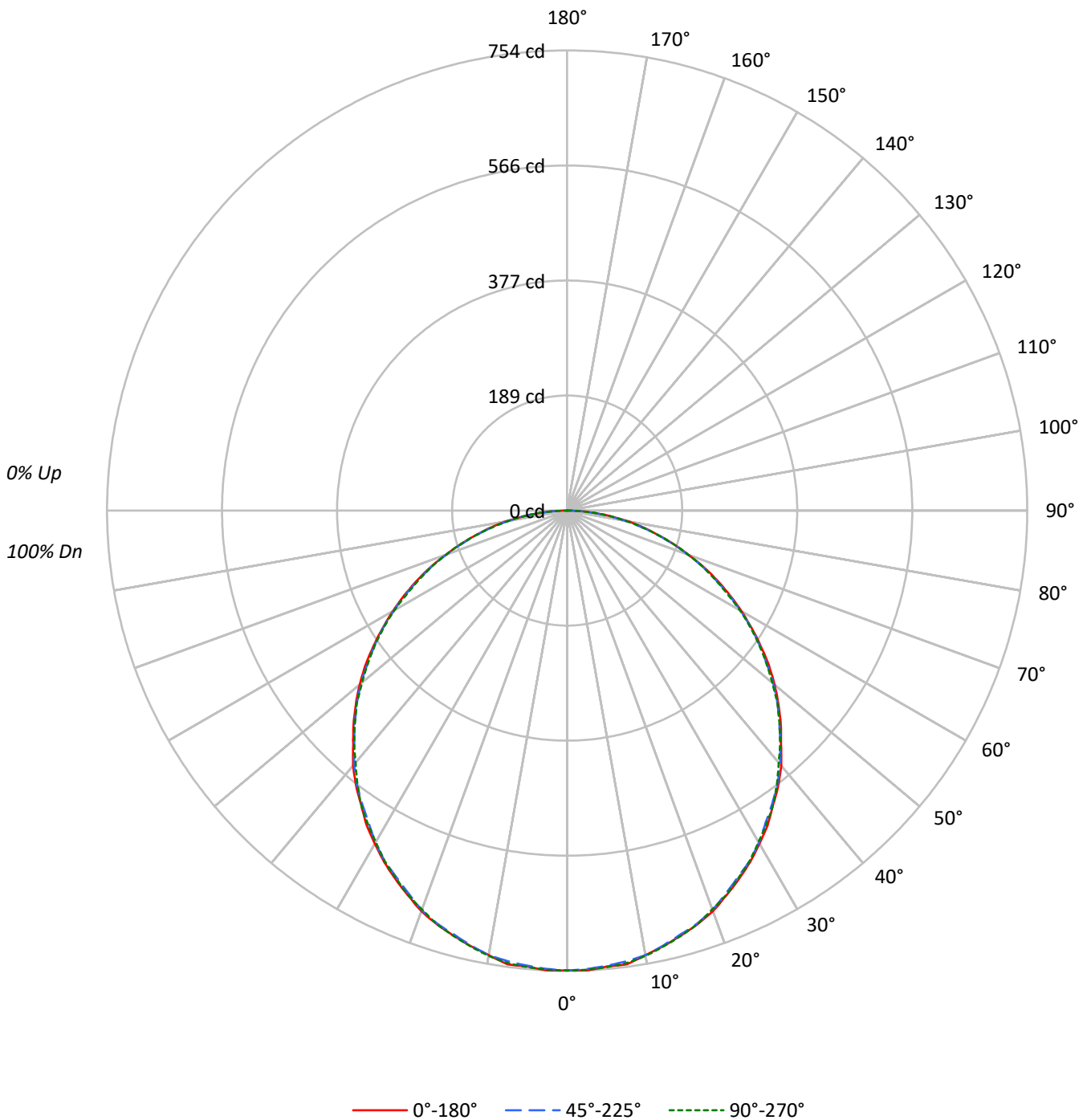
Input Watts (W): 22.32  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2028	2028	2028
5°	2025	2022	2029
10°	2021	2021	2025
15°	2008	2003	2009
20°	2001	1995	1991
25°	1978	1967	1973
30°	1959	1953	1949
35°	1934	1925	1934
40°	1917	1908	1894
45°	1884	1872	1872
50°	1858	1847	1837
55°	1818	1806	1803
60°	1776	1766	1759
65°	1731	1711	1703
70°	1662	1656	1662
75°	1604	1585	1597
80°	1587	1509	1499
85°	1405	1368	1386



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.3	3.3
10°-20°	203.4	9.4
20°-30°	306.3	14.2
30°-40°	367.6	17.1
40°-50°	380.3	17.7
50°-60°	344.6	16.0
60°-70°	267.1	12.4
70°-80°	162.2	7.5
80°-90°	50.2	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°	581.0	27.0
0°-40°	948.5	44.1
0°-60°	1673.5	77.7
0°-90°	2153.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2153.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	754	754	754	754	754	
5°	750	750	748	750	751	71
15°	721	721	719	722	721	204
25°	666	665	662	665	664	307
35°	589	589	586	587	589	369
45°	495	494	492	492	492	382
55°	388	387	385	384	384	347
65°	272	272	269	270	267	269
75°	154	154	152	152	154	164
85°	46	45	44	44	45	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	753.6	753.6	753.6	753.6	753.6
2.5°	754.2	751.0	751.7	752.9	752.9
5°	749.8	749.8	748.5	750.4	751.0
7.5°	749.8	746.6	744.7	746.6	747.9
10°	739.7	738.4	739.7	739.0	740.9
12.5°	730.8	729.5	729.5	731.4	731.4
15°	720.7	720.7	718.8	722.0	721.3
17.5°	710.6	710.6	709.3	709.3	710.6
20°	698.6	695.4	696.7	696.0	695.4
22.5°	682.1	680.2	679.0	680.9	681.5
25°	666.3	665.1	662.5	665.1	664.4
27.5°	649.3	648.0	647.4	646.1	647.4
30°	630.3	629.0	628.4	627.1	627.1
32.5°	611.3	608.8	605.6	608.8	608.2
35°	588.6	588.6	586.0	586.7	588.6
37.5°	568.3	567.1	565.8	563.9	564.5
40°	545.6	543.7	543.1	541.8	539.3
42.5°	519.0	519.0	516.5	517.1	516.5
45°	495.0	494.4	491.8	491.8	491.8
47.5°	469.7	469.1	467.2	465.9	467.2
50°	443.8	441.3	441.3	439.4	438.7
52.5°	416.6	414.7	412.2	412.8	411.6
55°	387.5	386.9	385.0	384.4	384.4
57.5°	358.5	359.1	357.8	355.3	355.9
60°	330.0	329.4	328.1	326.8	326.8
62.5°	300.9	300.9	298.4	298.4	295.9
65°	271.8	271.8	268.7	269.9	267.4
67.5°	242.8	242.1	240.2	239.6	240.2
70°	211.2	211.8	210.5	210.5	211.2
72.5°	182.7	182.1	181.4	181.4	182.7
75°	154.3	153.6	152.4	152.4	153.6
77.5°	128.3	125.2	124.5	125.8	123.9
80°	102.4	98.0	97.4	96.7	96.7
82.5°	72.1	70.2	70.8	70.2	71.4
85°	45.5	44.9	44.3	44.3	44.9
87.5°	21.5	20.2	20.2	19.6	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)