

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: P292860

Luminaire Tested: **22GR-LD5-24-FGW080-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292860  
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-LD5-24-FGW080-UNV-L92765-W2A1-U-5000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1884.0 lumens  
Efficiency: N/A  
Efficacy: 101.3 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

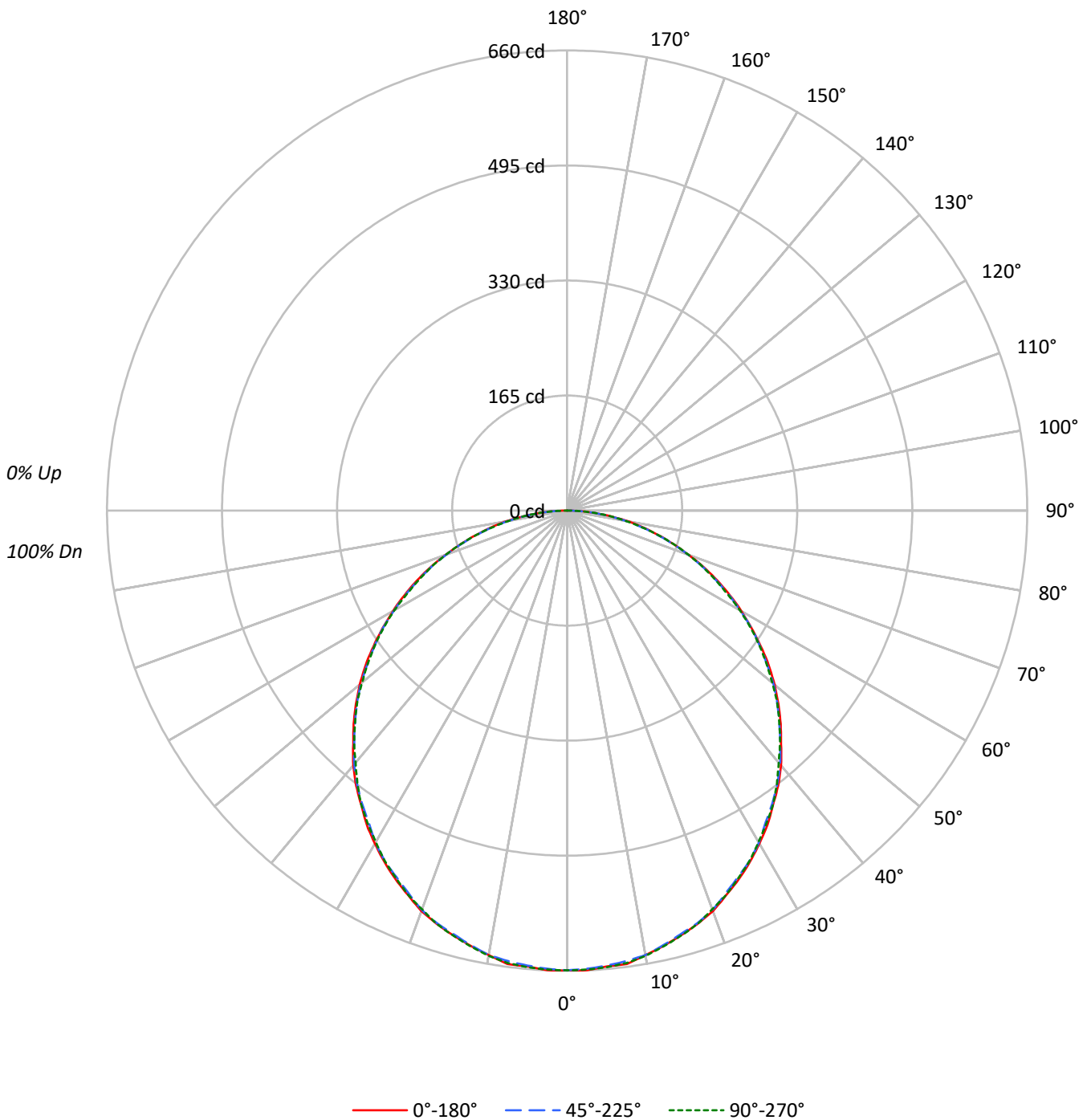
Input Watts (W): 18.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P292860

CATALOG NUMBER: 22GR-LD5-24-FGW080-UNV-L92765-W2A1-U-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P292860

CATALOG NUMBER: 22GR-LD5-24-FGW080-UNV-L92765-W2A1-U-5000K

**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°	1774	1774	1774
5°	1772	1769	1775
10°	1768	1768	1772
15°	1757	1752	1758
20°	1751	1746	1743
25°	1731	1722	1726
30°	1714	1709	1705
35°	1692	1685	1692
40°	1677	1669	1658
45°	1649	1638	1638
50°	1626	1616	1607
55°	1591	1581	1578
60°	1554	1545	1539
65°	1515	1497	1490
70°	1454	1449	1454
75°	1404	1386	1397
80°	1389	1320	1311
85°	1229	1195	1213



TEST NUMBER: P292860

CATALOG NUMBER: 22GR-LD5-24-FGW080-UNV-L92765-W2A1-U-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.4	3.3
10°-20°	178.0	9.4
20°-30°	268.0	14.2
30°-40°	321.6	17.1
40°-50°	332.8	17.7
50°-60°	301.6	16.0
60°-70°	233.8	12.4
70°-80°	141.9	7.5
80°-90°	43.9	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°	508.4	27.0
0°-40°	830.0	44.1
0°-60°	1464.4	77.7
0°-90°	1884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1884.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	659	659	659	659	659	
5°	656	656	655	657	657	62
15°	631	631	629	632	631	178
25°	583	582	580	582	581	269
35°	515	515	513	513	515	323
45°	433	433	430	430	430	334
55°	339	339	337	336	336	303
65°	238	238	235	236	234	235
75°	135	134	133	133	134	144
85°	40	39	39	39	39	45
90°	0	0	0	0	0	



TEST NUMBER: P292860

CATALOG NUMBER: 22GR-LD5-24-FGW080-UNV-L92765-W2A1-U-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	659.4	659.4	659.4	659.4	659.4
2.5°	660.0	657.2	657.8	658.9	658.9
5°	656.1	656.1	655.0	656.7	657.2
7.5°	656.1	653.3	651.7	653.3	654.4
10°	647.2	646.1	647.2	646.7	648.4
12.5°	639.5	638.4	638.4	640.1	640.1
15°	630.7	630.7	629.0	631.8	631.2
17.5°	621.8	621.8	620.7	620.7	621.8
20°	611.3	608.5	609.6	609.1	608.5
22.5°	596.9	595.2	594.1	595.8	596.4
25°	583.1	582.0	579.8	582.0	581.4
27.5°	568.1	567.0	566.5	565.4	566.5
30°	551.5	550.4	549.9	548.8	548.8
32.5°	534.9	532.7	530.0	532.7	532.2
35°	515.0	515.0	512.8	513.4	515.0
37.5°	497.3	496.2	495.1	493.5	494.0
40°	477.4	475.8	475.2	474.1	471.9
42.5°	454.2	454.2	452.0	452.5	452.0
45°	433.2	432.6	430.4	430.4	430.4
47.5°	411.0	410.5	408.8	407.7	408.8
50°	388.3	386.1	386.1	384.5	383.9
52.5°	364.6	362.9	360.7	361.2	360.1
55°	339.1	338.6	336.9	336.3	336.3
57.5°	313.7	314.2	313.1	310.9	311.5
60°	288.8	288.2	287.1	286.0	286.0
62.5°	263.3	263.3	261.1	261.1	258.9
65°	237.9	237.9	235.1	236.2	234.0
67.5°	212.4	211.9	210.2	209.7	210.2
70°	184.8	185.3	184.2	184.2	184.8
72.5°	159.9	159.3	158.8	158.8	159.9
75°	135.0	134.4	133.3	133.3	134.4
77.5°	112.3	109.5	109.0	110.1	108.4
80°	89.6	85.7	85.2	84.6	84.6
82.5°	63.1	61.4	62.0	61.4	62.5
85°	39.8	39.3	38.7	38.7	39.3
87.5°	18.8	17.7	17.7	17.1	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)