

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: P292756

Luminaire Tested: **22GR-LD5-20-FGW080-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292756  
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-LD5-20-FGW080-UNV-L82765-W2A1-U-6500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1815.0 lumens  
Efficiency: N/A  
Efficacy: 112.8 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

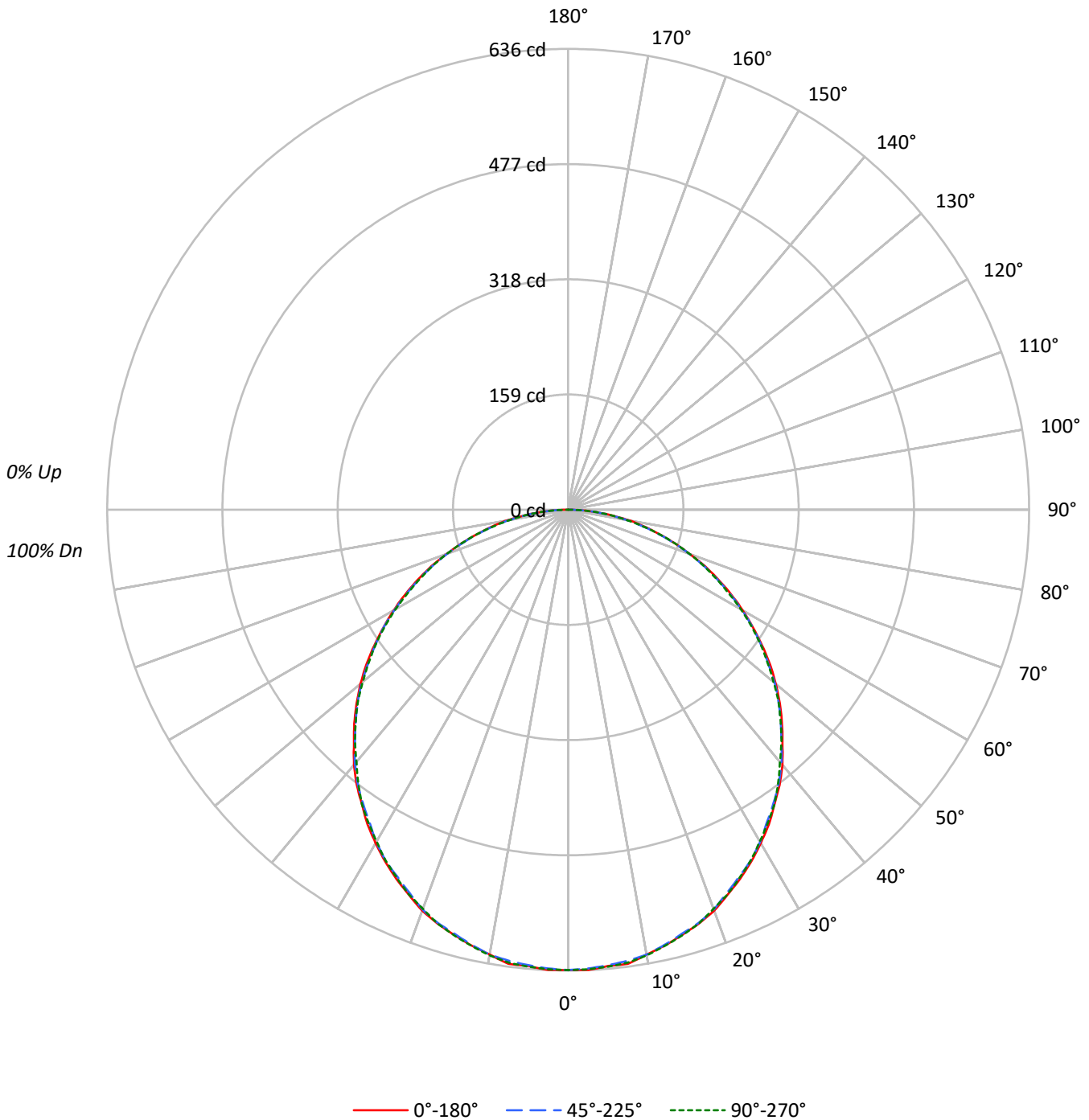
Input Watts (W): 16.089  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1710	1710	1710
5°	1707	1704	1710
10°	1704	1704	1707
15°	1693	1688	1694
20°	1686	1682	1679
25°	1668	1658	1663
30°	1651	1646	1643
35°	1630	1623	1630
40°	1616	1608	1597
45°	1588	1578	1578
50°	1566	1557	1549
55°	1533	1523	1520
60°	1497	1489	1483
65°	1459	1442	1435
70°	1400	1397	1400
75°	1352	1335	1346
80°	1337	1272	1263
85°	1186	1152	1167



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.1	3.3
10°-20°	171.5	9.4
20°-30°	258.2	14.2
30°-40°	309.9	17.1
40°-50°	320.6	17.7
50°-60°	290.5	16.0
60°-70°	225.2	12.4
70°-80°	136.7	7.5
80°-90°	42.3	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°	489.8	27.0
0°-40°	799.6	44.1
0°-60°	1410.8	77.7
0°-90°	1815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1815.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	635	635	635	635	635	
5°	632	632	631	633	633	60
15°	608	608	606	609	608	172
25°	562	561	558	561	560	259
35°	496	496	494	495	496	311
45°	417	417	415	415	415	322
55°	327	326	325	324	324	292
65°	229	229	226	228	225	227
75°	130	130	128	128	130	138
85°	38	38	37	37	38	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	635.3	635.3	635.3	635.3	635.3
2.5°	635.8	633.1	633.7	634.7	634.7
5°	632.1	632.1	631.0	632.6	633.1
7.5°	632.1	629.4	627.8	629.4	630.5
10°	623.5	622.5	623.5	623.0	624.6
12.5°	616.1	615.0	615.0	616.6	616.6
15°	607.6	607.6	606.0	608.6	608.1
17.5°	599.0	599.0	598.0	598.0	599.0
20°	588.9	586.2	587.3	586.8	586.2
22.5°	575.0	573.4	572.4	574.0	574.5
25°	561.7	560.7	558.5	560.7	560.1
27.5°	547.3	546.3	545.7	544.7	545.7
30°	531.3	530.3	529.7	528.7	528.7
32.5°	515.4	513.2	510.6	513.2	512.7
35°	496.2	496.2	494.0	494.6	496.2
37.5°	479.1	478.0	477.0	475.4	475.9
40°	459.9	458.3	457.8	456.7	454.6
42.5°	437.5	437.5	435.4	435.9	435.4
45°	417.3	416.8	414.6	414.6	414.6
47.5°	396.0	395.4	393.8	392.8	393.8
50°	374.1	372.0	372.0	370.4	369.9
52.5°	351.2	349.6	347.5	348.0	346.9
55°	326.7	326.2	324.6	324.0	324.0
57.5°	302.2	302.7	301.6	299.5	300.0
60°	278.2	277.7	276.6	275.5	275.5
62.5°	253.7	253.7	251.5	251.5	249.4
65°	229.2	229.2	226.5	227.6	225.4
67.5°	204.6	204.1	202.5	202.0	202.5
70°	178.0	178.5	177.5	177.5	178.0
72.5°	154.0	153.5	153.0	153.0	154.0
75°	130.0	129.5	128.4	128.4	129.5
77.5°	108.2	105.5	105.0	106.1	104.5
80°	86.3	82.6	82.1	81.5	81.5
82.5°	60.8	59.2	59.7	59.2	60.2
85°	38.4	37.8	37.3	37.3	37.8
87.5°	18.1	17.1	17.1	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)