

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: P292753

Luminaire Tested: **22GR-LD5-20-FGW080-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292753  
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-5000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1788.0 lumens  
Efficiency: N/A  
Efficacy: 113.1 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

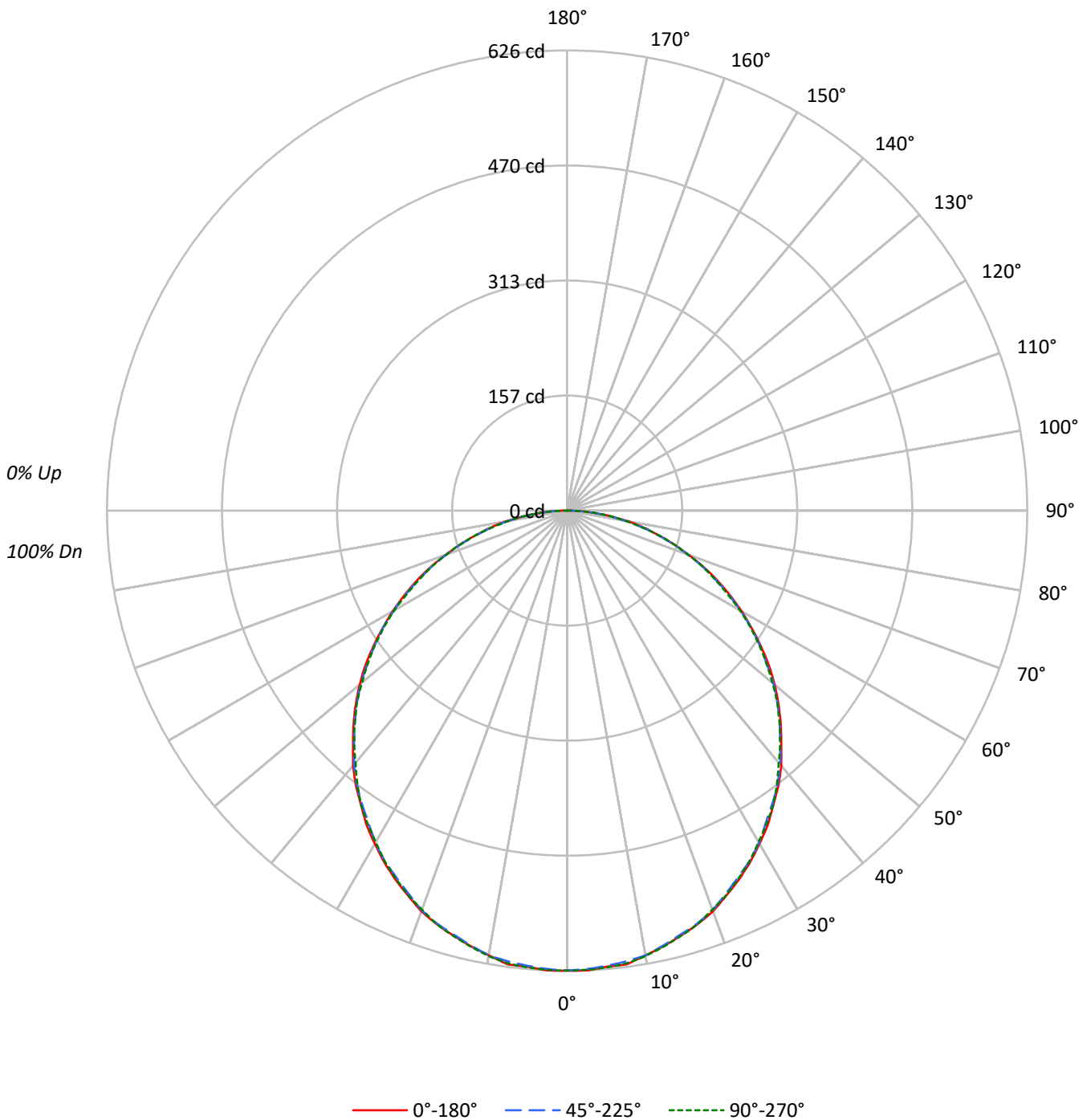
Input Watts (W): 15.81  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1684	1684	1684
5°	1682	1679	1685
10°	1679	1679	1681
15°	1667	1663	1669
20°	1661	1657	1654
25°	1643	1634	1638
30°	1626	1622	1618
35°	1606	1599	1606
40°	1592	1584	1573
45°	1564	1555	1555
50°	1543	1534	1526
55°	1510	1500	1498
60°	1475	1467	1461
65°	1438	1421	1414
70°	1380	1375	1380
75°	1332	1315	1327
80°	1319	1254	1244
85°	1167	1136	1152



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.2	3.3
10°-20°	168.9	9.4
20°-30°	254.4	14.2
30°-40°	305.2	17.1
40°-50°	315.9	17.7
50°-60°	286.2	16.0
60°-70°	221.9	12.4
70°-80°	134.7	7.5
80°-90°	41.7	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°	482.5	27.0
0°-40°	787.7	44.1
0°-60°	1389.8	77.7
0°-90°	1788.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1788.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	623	623	622	623	624	59
15°	598	598	597	600	599	169
25°	553	552	550	552	552	255
35°	489	489	487	487	489	306
45°	411	411	408	408	408	317
55°	322	321	320	319	319	288
65°	226	226	223	224	222	223
75°	128	128	126	126	128	136
85°	38	37	37	37	37	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	625.8	625.8	625.8	625.8	625.8
2.5°	626.3	623.7	624.2	625.3	625.3
5°	622.7	622.7	621.6	623.2	623.7
7.5°	622.7	620.0	618.5	620.0	621.1
10°	614.3	613.2	614.3	613.7	615.3
12.5°	606.9	605.9	605.9	607.4	607.4
15°	598.5	598.5	596.9	599.6	599.0
17.5°	590.1	590.1	589.1	589.1	590.1
20°	580.1	577.5	578.6	578.0	577.5
22.5°	566.5	564.9	563.9	565.4	566.0
25°	553.4	552.3	550.2	552.3	551.8
27.5°	539.2	538.1	537.6	536.6	537.6
30°	523.4	522.4	521.9	520.8	520.8
32.5°	507.7	505.6	503.0	505.6	505.1
35°	488.8	488.8	486.7	487.2	488.8
37.5°	472.0	470.9	469.9	468.3	468.8
40°	453.1	451.5	451.0	449.9	447.8
42.5°	431.0	431.0	428.9	429.5	428.9
45°	411.1	410.6	408.5	408.5	408.5
47.5°	390.1	389.6	388.0	386.9	388.0
50°	368.6	366.5	366.5	364.9	364.4
52.5°	346.0	344.4	342.3	342.8	341.8
55°	321.8	321.3	319.7	319.2	319.2
57.5°	297.7	298.2	297.2	295.1	295.6
60°	274.1	273.5	272.5	271.4	271.4
62.5°	249.9	249.9	247.8	247.8	245.7
65°	225.8	225.8	223.1	224.2	222.1
67.5°	201.6	201.1	199.5	199.0	199.5
70°	175.4	175.9	174.8	174.8	175.4
72.5°	151.7	151.2	150.7	150.7	151.7
75°	128.1	127.6	126.5	126.5	127.6
77.5°	106.6	104.0	103.4	104.5	102.9
80°	85.1	81.4	80.9	80.3	80.3
82.5°	59.9	58.3	58.8	58.3	59.3
85°	37.8	37.3	36.8	36.8	37.3
87.5°	17.9	16.8	16.8	16.3	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)