

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: P292757

Luminaire Tested: **22GR-LD5-24-FGW080-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292757  
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-L82765-W2A1-U-2700K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1870.0 lumens  
Efficiency: N/A  
Efficacy: 103.1 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

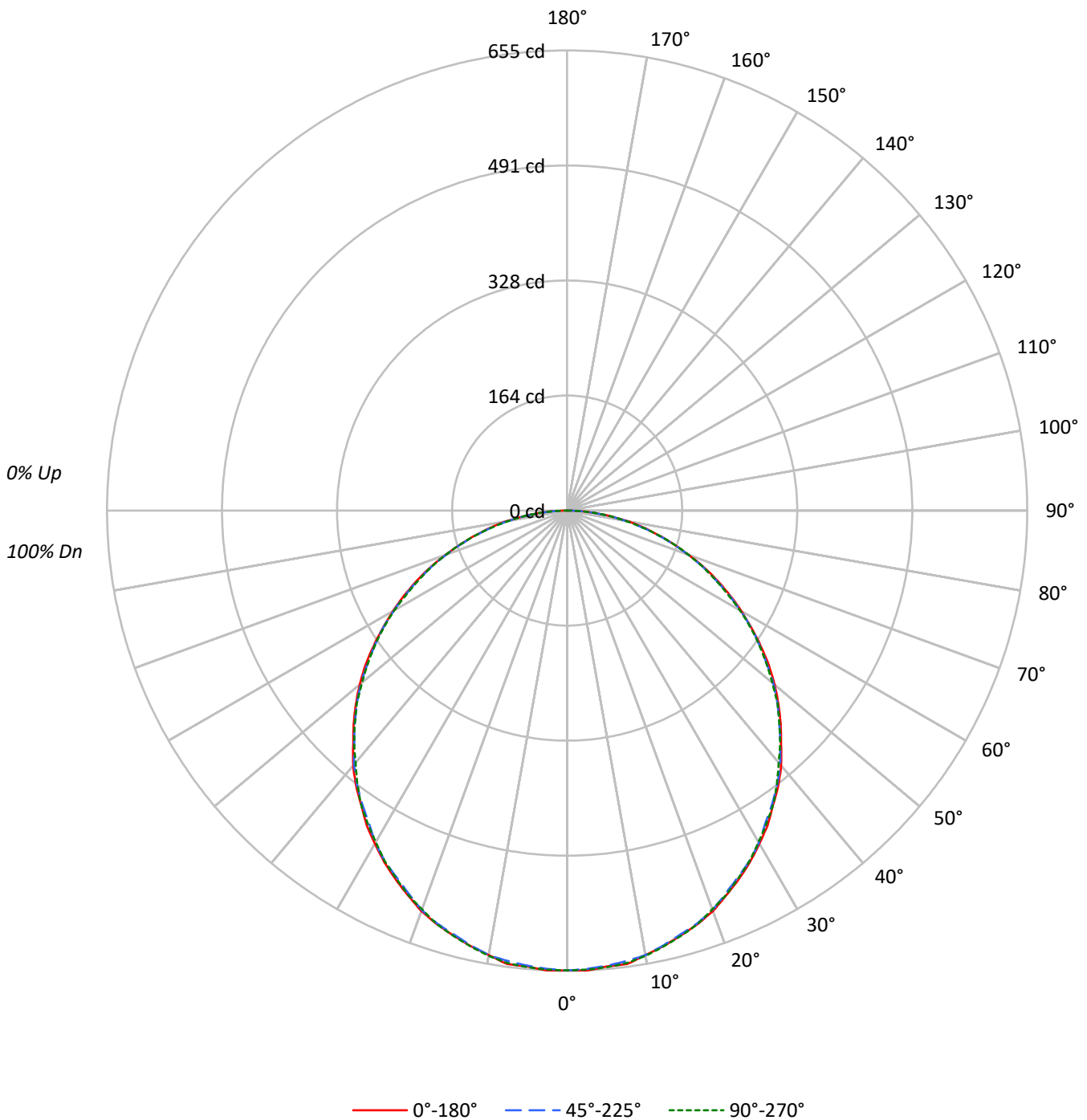
Input Watts (W): 18.135  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1761	1761	1761
5°	1759	1756	1762
10°	1755	1755	1758
15°	1744	1739	1745
20°	1737	1733	1730
25°	1718	1708	1714
30°	1701	1696	1693
35°	1679	1672	1679
40°	1665	1657	1645
45°	1636	1626	1626
50°	1614	1605	1595
55°	1579	1569	1566
60°	1542	1534	1528
65°	1503	1486	1479
70°	1443	1438	1443
75°	1393	1376	1387
80°	1379	1311	1302
85°	1220	1186	1204



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.9	3.3
10°-20°	176.7	9.4
20°-30°	266.0	14.2
30°-40°	319.2	17.1
40°-50°	330.3	17.7
50°-60°	299.3	16.0
60°-70°	232.0	12.4
70°-80°	140.9	7.5
80°-90°	43.6	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°	504.6	27.0
0°-40°	823.8	44.1
0°-60°	1453.5	77.7
0°-90°	1870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1870.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	654	654	654	654	654	
5°	651	651	650	652	652	62
15°	626	626	624	627	626	177
25°	579	578	575	578	577	267
35°	511	511	509	510	511	320
45°	430	429	427	427	427	332
55°	337	336	334	334	334	301
65°	236	236	233	234	232	233
75°	134	133	132	132	133	143
85°	40	39	38	38	39	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	654.5	654.5	654.5	654.5	654.5
2.5°	655.1	652.3	652.9	654.0	654.0
5°	651.2	651.2	650.1	651.8	652.3
7.5°	651.2	648.5	646.8	648.5	649.6
10°	642.4	641.3	642.4	641.9	643.5
12.5°	634.8	633.7	633.7	635.3	635.3
15°	626.0	626.0	624.3	627.1	626.5
17.5°	617.2	617.2	616.1	616.1	617.2
20°	606.7	604.0	605.1	604.6	604.0
22.5°	592.5	590.8	589.7	591.4	591.9
25°	578.7	577.6	575.4	577.6	577.1
27.5°	563.9	562.8	562.3	561.2	562.3
30°	547.4	546.3	545.8	544.7	544.7
32.5°	531.0	528.8	526.0	528.8	528.2
35°	511.2	511.2	509.0	509.6	511.2
37.5°	493.6	492.5	491.4	489.8	490.3
40°	473.9	472.2	471.7	470.6	468.4
42.5°	450.8	450.8	448.6	449.2	448.6
45°	429.9	429.4	427.2	427.2	427.2
47.5°	408.0	407.4	405.8	404.7	405.8
50°	385.5	383.3	383.3	381.6	381.1
52.5°	361.9	360.2	358.0	358.6	357.5
55°	336.6	336.0	334.4	333.8	333.8
57.5°	311.3	311.9	310.8	308.6	309.1
60°	286.6	286.1	285.0	283.9	283.9
62.5°	261.4	261.4	259.2	259.2	257.0
65°	236.1	236.1	233.4	234.5	232.3
67.5°	210.9	210.3	208.7	208.1	208.7
70°	183.4	183.9	182.8	182.8	183.4
72.5°	158.7	158.1	157.6	157.6	158.7
75°	134.0	133.4	132.3	132.3	133.4
77.5°	111.5	108.7	108.2	109.3	107.6
80°	89.0	85.1	84.6	84.0	84.0
82.5°	62.6	60.9	61.5	60.9	62.0
85°	39.5	39.0	38.4	38.4	39.0
87.5°	18.7	17.6	17.6	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)