

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: P292770

Luminaire Tested: **22GR-LD5-28-FGW080-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292770
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-L82765-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2476.0 lumens
Efficiency: N/A
Efficacy: 110.5 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

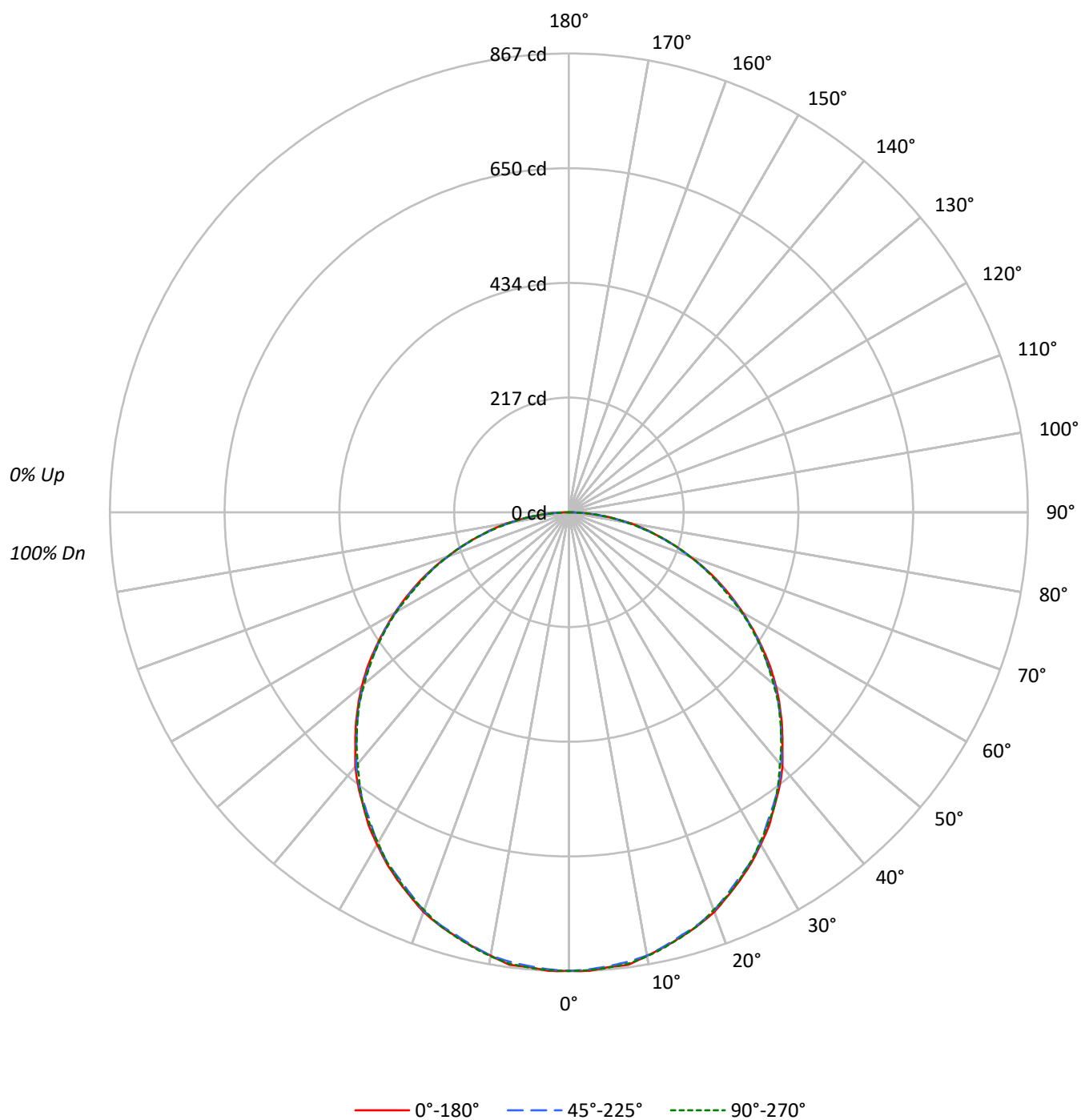
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	94	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	85	79	74		81	77	73		78
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2332	2332	2332
5°	2329	2325	2333
10°	2324	2324	2328
15°	2309	2303	2311
20°	2301	2294	2290
25°	2275	2262	2269
30°	2252	2246	2241
35°	2224	2214	2224
40°	2204	2194	2179
45°	2167	2152	2152
50°	2137	2125	2112
55°	2091	2077	2074
60°	2042	2031	2023
65°	1990	1968	1958
70°	1910	1905	1910
75°	1844	1822	1837
80°	1826	1736	1723
85°	1615	1572	1593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	3.3
10°-20°	233.9	9.4
20°-30°	352.2	14.2
30°-40°	422.7	17.1
40°-50°	437.4	17.7
50°-60°	396.3	16.0
60°-70°	307.2	12.4
70°-80°	186.5	7.5
80°-90°	57.7	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°	668.1	27.0
0°-40°	1090.8	44.1
0°-60°	1924.5	77.7
0°-90°	2476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2476.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	862	862	861	863	864	82
15°	829	829	827	830	830	234
25°	766	765	762	765	764	353
35°	677	677	674	675	677	424
45°	569	568	566	566	566	439
55°	446	445	443	442	442	399
65°	313	313	309	310	308	309
75°	177	177	175	175	177	189
85°	52	52	51	51	52	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	866.6	866.6	866.6	866.6	866.6
2.5°	867.4	863.7	864.4	865.9	865.9
5°	862.3	862.3	860.8	863.0	863.7
7.5°	862.3	858.6	856.4	858.6	860.1
10°	850.6	849.2	850.6	849.9	852.1
12.5°	840.4	839.0	839.0	841.2	841.2
15°	828.8	828.8	826.6	830.3	829.5
17.5°	817.2	817.2	815.7	815.7	817.2
20°	803.4	799.7	801.2	800.5	799.7
22.5°	784.5	782.3	780.8	783.0	783.7
25°	766.3	764.8	761.9	764.8	764.1
27.5°	746.7	745.2	744.5	743.0	744.5
30°	724.9	723.4	722.7	721.2	721.2
32.5°	703.0	700.1	696.5	700.1	699.4
35°	676.9	676.9	674.0	674.7	676.9
37.5°	653.6	652.1	650.7	648.5	649.2
40°	627.4	625.2	624.5	623.1	620.2
42.5°	596.9	596.9	594.0	594.7	594.0
45°	569.3	568.5	565.6	565.6	565.6
47.5°	540.2	539.5	537.3	535.8	537.3
50°	510.4	507.5	507.5	505.3	504.6
52.5°	479.1	476.9	474.0	474.8	473.3
55°	445.7	444.9	442.8	442.0	442.0
57.5°	412.2	413.0	411.5	408.6	409.3
60°	379.5	378.8	377.3	375.9	375.9
62.5°	346.1	346.1	343.2	343.2	340.3
65°	312.6	312.6	309.0	310.4	307.5
67.5°	279.2	278.5	276.3	275.5	276.3
70°	242.8	243.6	242.1	242.1	242.8
72.5°	210.1	209.4	208.7	208.7	210.1
75°	177.4	176.7	175.2	175.2	176.7
77.5°	147.6	144.0	143.2	144.7	142.5
80°	117.8	112.7	112.0	111.2	111.2
82.5°	82.9	80.7	81.4	80.7	82.2
85°	52.3	51.6	50.9	50.9	51.6
87.5°	24.7	23.3	23.3	22.5	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)