

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: P292883

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292883
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-LD5-36-FGW080-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2462.0 lumens
Efficiency: N/A
Efficacy: 88.5 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

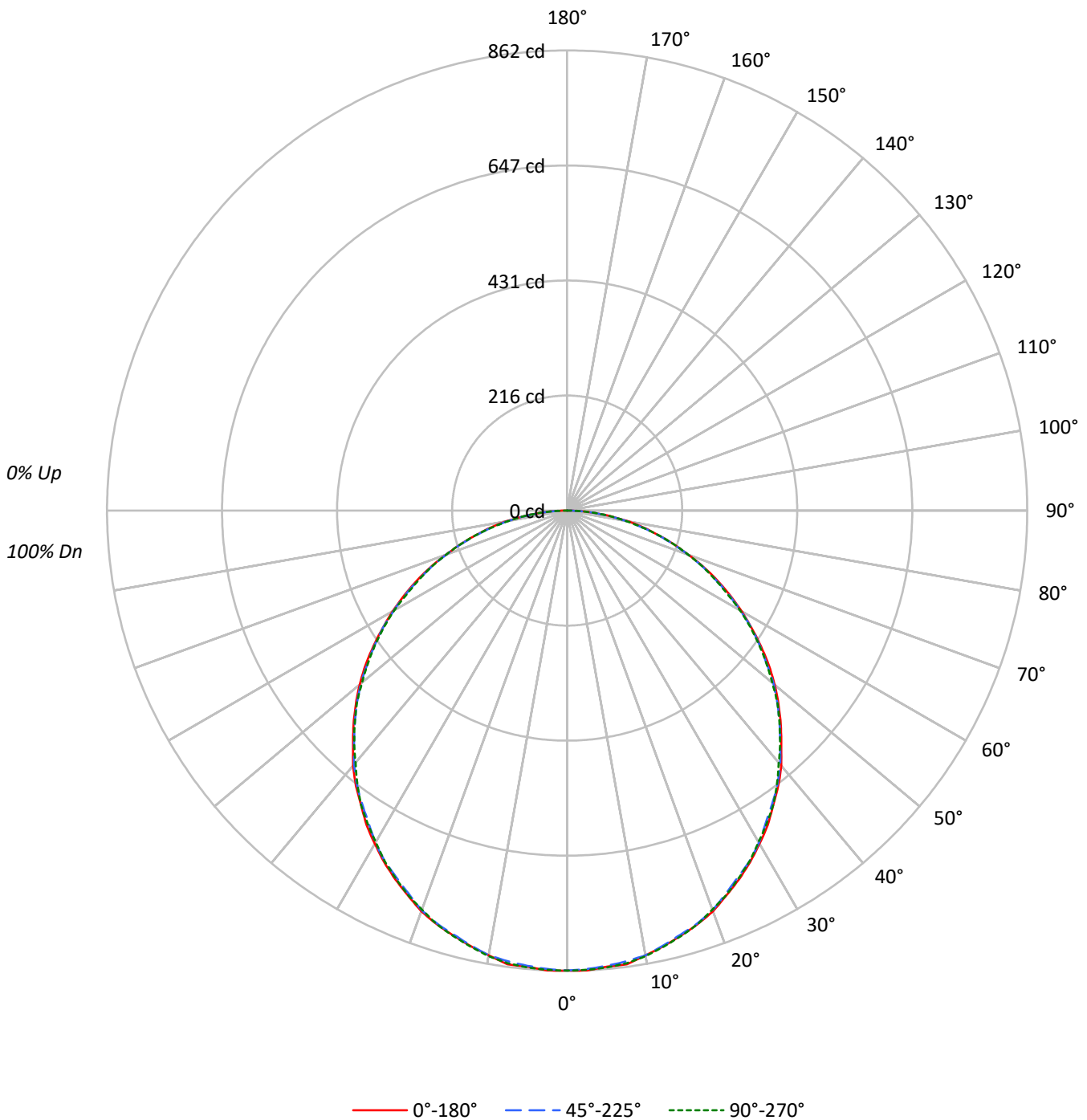
Input Watts (W): 27.807
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2319	2319	2319
5°	2316	2312	2320
10°	2311	2311	2315
15°	2296	2290	2298
20°	2288	2281	2277
25°	2263	2249	2256
30°	2240	2233	2228
35°	2211	2201	2211
40°	2192	2181	2166
45°	2154	2140	2140
50°	2125	2112	2100
55°	2079	2066	2062
60°	2031	2019	2012
65°	1980	1956	1947
70°	1900	1894	1900
75°	1834	1811	1827
80°	1815	1725	1714
85°	1609	1562	1584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	3.3
10°-20°	232.6	9.4
20°-30°	350.2	14.2
30°-40°	420.3	17.1
40°-50°	434.9	17.7
50°-60°	394.1	16.0
60°-70°	305.5	12.4
70°-80°	185.5	7.5
80°-90°	57.4	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°	664.4	27.0
0°-40°	1084.7	44.1
0°-60°	1913.7	77.7
0°-90°	2462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2462.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	862	862	862	862	862	
5°	857	857	856	858	859	82
15°	824	824	822	826	825	233
25°	762	760	758	760	760	351
35°	673	673	670	671	673	422
45°	566	565	562	562	562	437
55°	443	442	440	440	440	396
65°	311	311	307	309	306	307
75°	176	176	174	174	176	188
85°	52	51	51	51	51	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	861.7	861.7	861.7	861.7	861.7
2.5°	862.4	858.8	859.6	861.0	861.0
5°	857.4	857.4	855.9	858.1	858.8
7.5°	857.4	853.8	851.6	853.8	855.2
10°	845.8	844.4	845.8	845.1	847.3
12.5°	835.7	834.3	834.3	836.4	836.4
15°	824.1	824.1	822.0	825.6	824.9
17.5°	812.6	812.6	811.1	811.1	812.6
20°	798.8	795.2	796.7	795.9	795.2
22.5°	780.0	777.9	776.4	778.6	779.3
25°	762.0	760.5	757.6	760.5	759.8
27.5°	742.4	741.0	740.3	738.8	740.3
30°	720.8	719.3	718.6	717.1	717.1
32.5°	699.1	696.2	692.6	696.2	695.5
35°	673.0	673.0	670.1	670.9	673.0
37.5°	649.9	648.5	647.0	644.8	645.6
40°	623.9	621.7	621.0	619.5	616.7
42.5°	593.5	593.5	590.6	591.4	590.6
45°	566.0	565.3	562.4	562.4	562.4
47.5°	537.1	536.4	534.2	532.8	534.2
50°	507.5	504.6	504.6	502.4	501.7
52.5°	476.4	474.2	471.3	472.1	470.6
55°	443.2	442.4	440.3	439.5	439.5
57.5°	409.9	410.6	409.2	406.3	407.0
60°	377.4	376.6	375.2	373.8	373.8
62.5°	344.1	344.1	341.2	341.2	338.3
65°	310.9	310.9	307.2	308.7	305.8
67.5°	277.6	276.9	274.7	274.0	274.7
70°	241.5	242.2	240.7	240.7	241.5
72.5°	208.9	208.2	207.5	207.5	208.9
75°	176.4	175.7	174.2	174.2	175.7
77.5°	146.8	143.1	142.4	143.9	141.7
80°	117.1	112.1	111.3	110.6	110.6
82.5°	82.4	80.2	81.0	80.2	81.7
85°	52.1	51.3	50.6	50.6	51.3
87.5°	24.6	23.1	23.1	22.4	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)