

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: P292882

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292882
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-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2368.0 lumens
Efficiency: N/A
Efficacy: 84.6 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

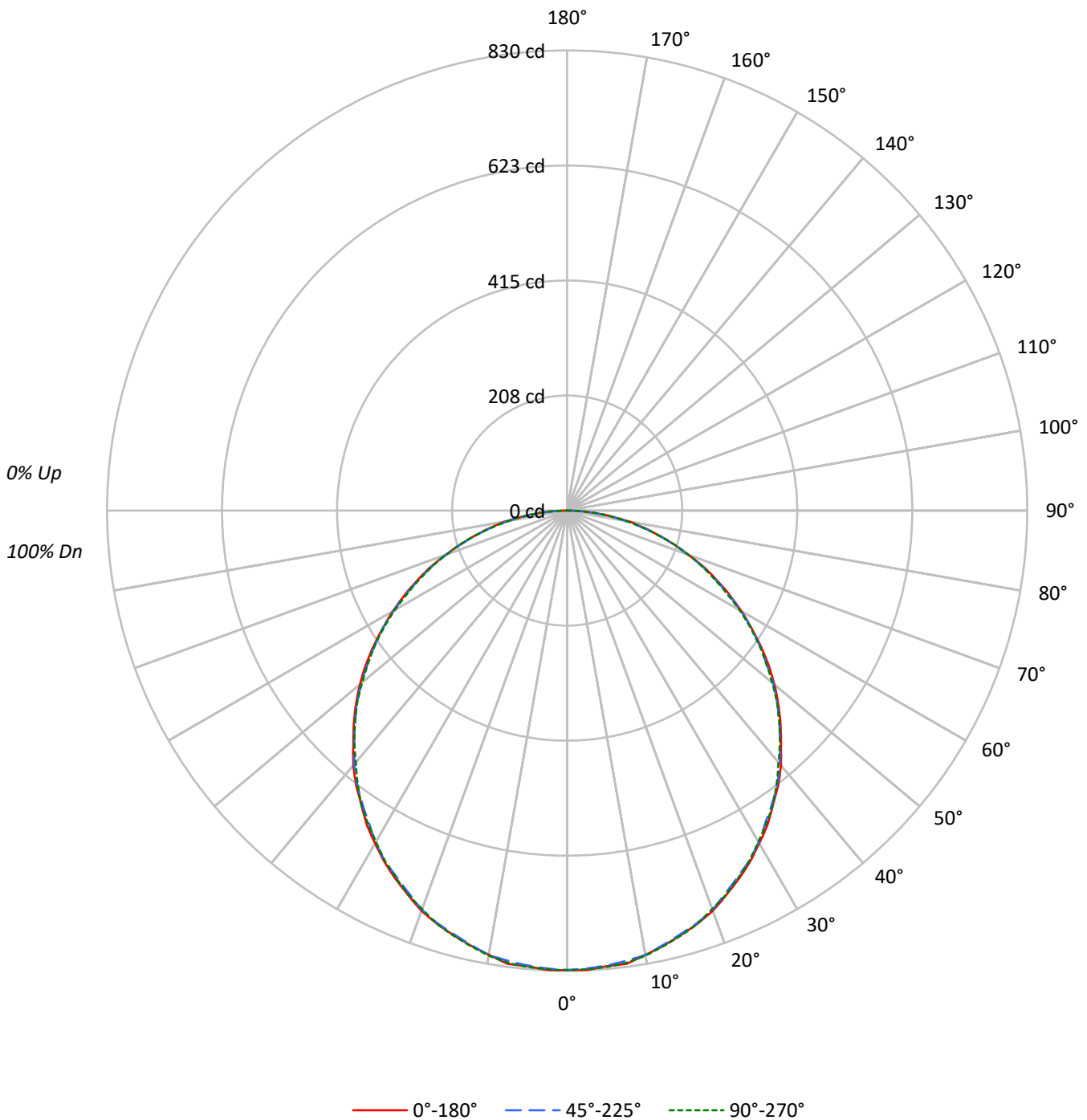
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292882

CATALOG NUMBER: 22GR-LD5-36-FGW080-UNV-L92765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P292882

CATALOG NUMBER: 22GR-LD5-36-FGW080-UNV-L92765-W2A1-U-2700K

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°	2230	2230	2230
5°	2228	2224	2231
10°	2223	2223	2227
15°	2208	2203	2210
20°	2200	2194	2190
25°	2176	2164	2170
30°	2154	2147	2143
35°	2126	2118	2126
40°	2108	2098	2083
45°	2072	2059	2059
50°	2043	2032	2020
55°	2000	1987	1984
60°	1954	1942	1935
65°	1904	1882	1873
70°	1827	1821	1827
75°	1764	1743	1757
80°	1745	1660	1649
85°	1547	1504	1525



TEST NUMBER: P292882

CATALOG NUMBER: 22GR-LD5-36-FGW080-UNV-L92765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	3.3
10°-20°	223.7	9.4
20°-30°	336.9	14.2
30°-40°	404.3	17.1
40°-50°	418.3	17.7
50°-60°	379.0	16.0
60°-70°	293.8	12.4
70°-80°	178.4	7.5
80°-90°	55.2	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°	639.0	27.0
0°-40°	1043.3	44.1
0°-60°	1840.6	77.7
0°-90°	2368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2368.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	829	829	829	829	829	
5°	825	825	823	825	826	79
15°	793	793	791	794	793	224
25°	733	732	729	732	731	338
35°	647	647	645	645	647	406
45°	544	544	541	541	541	420
55°	426	426	424	423	423	381
65°	299	299	296	297	294	296
75°	170	169	168	168	169	180
85°	50	49	49	49	49	57
90°	0	0	0	0	0	



TEST NUMBER: P292882

CATALOG NUMBER: 22GR-LD5-36-FGW080-UNV-L92765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	828.8	828.8	828.8	828.8	828.8
2.5°	829.5	826.0	826.7	828.1	828.1
5°	824.7	824.7	823.3	825.3	826.0
7.5°	824.7	821.2	819.1	821.2	822.6
10°	813.5	812.1	813.5	812.8	814.9
12.5°	803.8	802.4	802.4	804.5	804.5
15°	792.7	792.7	790.6	794.1	793.4
17.5°	781.5	781.5	780.1	780.1	781.5
20°	768.3	764.9	766.2	765.5	764.9
22.5°	750.3	748.2	746.8	748.9	749.6
25°	732.9	731.5	728.7	731.5	730.8
27.5°	714.1	712.7	712.0	710.6	712.0
30°	693.2	691.8	691.1	689.8	689.8
32.5°	672.4	669.6	666.1	669.6	668.9
35°	647.3	647.3	644.6	645.3	647.3
37.5°	625.1	623.7	622.3	620.2	620.9
40°	600.1	598.0	597.3	595.9	593.1
42.5°	570.9	570.9	568.1	568.8	568.1
45°	544.4	543.7	541.0	541.0	541.0
47.5°	516.6	515.9	513.8	512.5	513.8
50°	488.1	485.3	485.3	483.2	482.6
52.5°	458.2	456.1	453.3	454.0	452.7
55°	426.2	425.5	423.5	422.8	422.8
57.5°	394.2	394.9	393.6	390.8	391.5
60°	363.0	362.3	360.9	359.5	359.5
62.5°	331.0	331.0	328.2	328.2	325.4
65°	299.0	299.0	295.5	296.9	294.1
67.5°	267.0	266.3	264.2	263.5	264.2
70°	232.2	232.9	231.5	231.5	232.2
72.5°	200.9	200.3	199.6	199.6	200.9
75°	169.7	169.0	167.6	167.6	169.0
77.5°	141.2	137.7	137.0	138.4	136.3
80°	112.6	107.8	107.1	106.4	106.4
82.5°	79.3	77.2	77.9	77.2	78.6
85°	50.1	49.4	48.7	48.7	49.4
87.5°	23.6	22.3	22.3	21.6	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)