

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: P292828

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292828
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-LD5-32-FGW080-UNV-L93050-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2471.0 lumens
Efficiency: N/A
Efficacy: 98.0 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

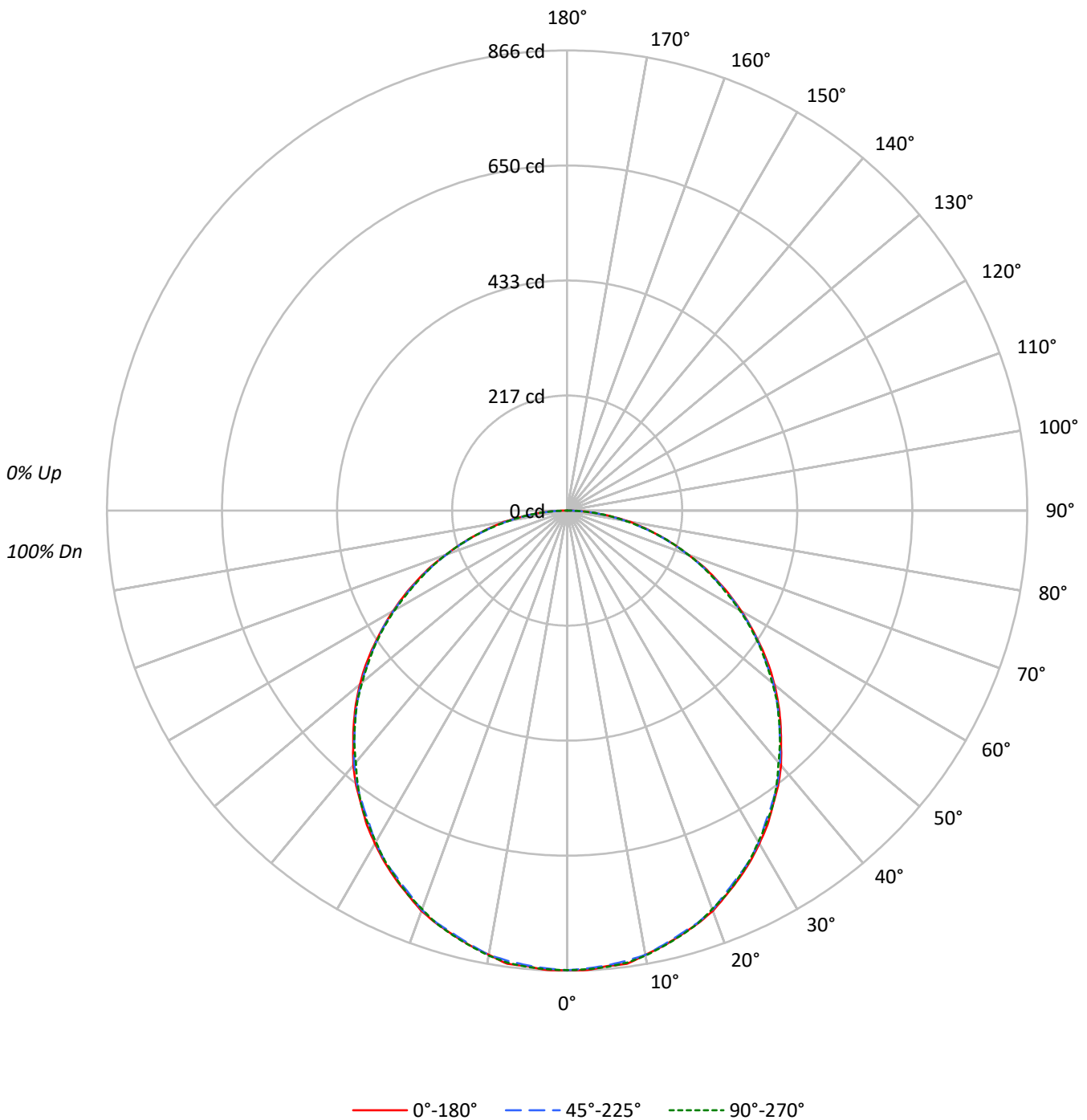
Input Watts (W): 25.203
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292828

CATALOG NUMBER: 22GR-LD5-32-FGW080-UNV-L93050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P292828

CATALOG NUMBER: 22GR-LD5-32-FGW080-UNV-L93050-W2A1-U-4000K

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°	2327	2327	2327
5°	2324	2321	2328
10°	2320	2320	2324
15°	2304	2298	2306
20°	2296	2290	2286
25°	2271	2258	2264
30°	2248	2241	2237
35°	2219	2210	2219
40°	2200	2190	2174
45°	2162	2148	2148
50°	2132	2120	2108
55°	2087	2073	2069
60°	2038	2027	2019
65°	1987	1964	1954
70°	1906	1901	1906
75°	1840	1818	1833
80°	1821	1731	1720
85°	1612	1568	1590



TEST NUMBER: P292828

CATALOG NUMBER: 22GR-LD5-32-FGW080-UNV-L93050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	3.3
10°-20°	233.4	9.4
20°-30°	351.5	14.2
30°-40°	421.8	17.1
40°-50°	436.5	17.7
50°-60°	395.5	16.0
60°-70°	306.6	12.4
70°-80°	186.1	7.5
80°-90°	57.6	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°	666.8	27.0
0°-40°	1088.6	44.1
0°-60°	1920.7	77.7
0°-90°	2471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2471.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	865	865	865	865	865	
5°	860	860	859	861	862	82
15°	827	827	825	829	828	234
25°	765	763	760	763	763	353
35°	676	676	673	673	676	423
45°	568	567	564	564	564	438
55°	445	444	442	441	441	398
65°	312	312	308	310	307	308
75°	177	176	175	175	176	188
85°	52	52	51	51	52	59
90°	0	0	0	0	0	



TEST NUMBER: P292828

CATALOG NUMBER: 22GR-LD5-32-FGW080-UNV-L93050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	864.9	864.9	864.9	864.9	864.9
2.5°	865.6	862.0	862.7	864.1	864.1
5°	860.5	860.5	859.1	861.2	862.0
7.5°	860.5	856.9	854.7	856.9	858.3
10°	848.9	847.5	848.9	848.2	850.4
12.5°	838.8	837.3	837.3	839.5	839.5
15°	827.1	827.1	825.0	828.6	827.9
17.5°	815.5	815.5	814.1	814.1	815.5
20°	801.7	798.1	799.6	798.8	798.1
22.5°	782.9	780.7	779.3	781.4	782.2
25°	764.7	763.3	760.4	763.3	762.6
27.5°	745.2	743.7	743.0	741.5	743.0
30°	723.4	721.9	721.2	719.8	719.8
32.5°	701.6	698.7	695.1	698.7	698.0
35°	675.5	675.5	672.6	673.3	675.5
37.5°	652.3	650.8	649.4	647.2	647.9
40°	626.2	624.0	623.3	621.8	618.9
42.5°	595.7	595.7	592.8	593.5	592.8
45°	568.1	567.4	564.5	564.5	564.5
47.5°	539.1	538.4	536.2	534.7	536.2
50°	509.3	506.4	506.4	504.3	503.5
52.5°	478.1	476.0	473.1	473.8	472.3
55°	444.8	444.0	441.9	441.1	441.1
57.5°	411.4	412.1	410.7	407.8	408.5
60°	378.7	378.0	376.6	375.1	375.1
62.5°	345.4	345.4	342.5	342.5	339.6
65°	312.0	312.0	308.4	309.8	306.9
67.5°	278.6	277.9	275.7	275.0	275.7
70°	242.3	243.1	241.6	241.6	242.3
72.5°	209.7	209.0	208.2	208.2	209.7
75°	177.0	176.3	174.9	174.9	176.3
77.5°	147.3	143.7	142.9	144.4	142.2
80°	117.5	112.5	111.7	111.0	111.0
82.5°	82.7	80.5	81.3	80.5	82.0
85°	52.2	51.5	50.8	50.8	51.5
87.5°	24.7	23.2	23.2	22.5	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)