

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: P292880

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292880
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-L92765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2538.0 lumens
Efficiency: N/A
Efficacy: 100.3 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

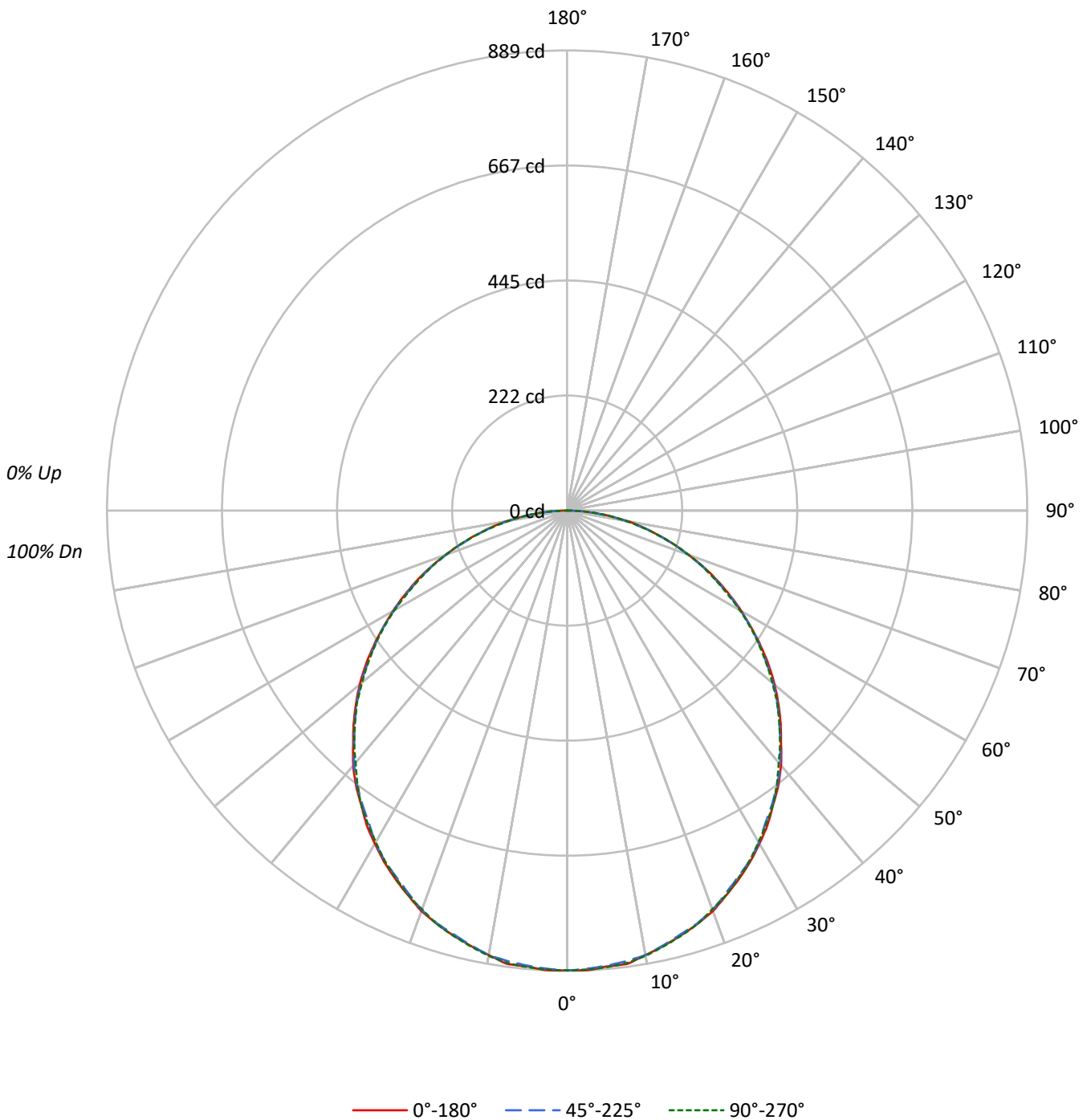
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292880

CATALOG NUMBER: 22GR-LD5-32-FGW080-UNV-L92765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P292880

CATALOG NUMBER: 22GR-LD5-32-FGW080-UNV-L92765-W2A1-U-5700K

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°	2390	2390	2390
5°	2388	2384	2391
10°	2382	2382	2387
15°	2367	2360	2369
20°	2358	2352	2348
25°	2332	2319	2325
30°	2309	2302	2297
35°	2279	2269	2279
40°	2259	2249	2233
45°	2221	2206	2206
50°	2190	2178	2165
55°	2143	2129	2126
60°	2094	2082	2074
65°	2041	2017	2007
70°	1958	1953	1958
75°	1890	1867	1883
80°	1870	1779	1767
85°	1658	1612	1633



TEST NUMBER: P292880

CATALOG NUMBER: 22GR-LD5-32-FGW080-UNV-L92765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	3.3
10°-20°	239.8	9.4
20°-30°	361.1	14.2
30°-40°	433.3	17.1
40°-50°	448.3	17.7
50°-60°	406.3	16.0
60°-70°	314.9	12.4
70°-80°	191.2	7.5
80°-90°	59.2	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°	684.9	27.0
0°-40°	1118.2	44.1
0°-60°	1972.7	77.7
0°-90°	2538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2538.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	888	888	888	888	888	
5°	884	884	882	885	885	84
15°	850	850	847	851	850	240
25°	786	784	781	784	783	362
35°	694	694	691	692	694	435
45°	584	583	580	580	580	450
55°	457	456	454	453	453	409
65°	320	320	317	318	315	317
75°	182	181	180	180	181	193
85°	54	53	52	52	53	61
90°	0	0	0	0	0	



TEST NUMBER: P292880

CATALOG NUMBER: 22GR-LD5-32-FGW080-UNV-L92765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	888.3	888.3	888.3	888.3	888.3
2.5°	889.1	885.3	886.1	887.6	887.6
5°	883.9	883.9	882.4	884.6	885.3
7.5°	883.9	880.1	877.9	880.1	881.6
10°	871.9	870.4	871.9	871.2	873.4
12.5°	861.5	860.0	860.0	862.2	862.2
15°	849.6	849.6	847.3	851.1	850.3
17.5°	837.6	837.6	836.2	836.2	837.6
20°	823.5	819.8	821.3	820.5	819.8
22.5°	804.1	801.9	800.4	802.6	803.4
25°	785.5	784.0	781.0	784.0	783.2
27.5°	765.4	763.9	763.1	761.6	763.1
30°	743.0	741.5	740.8	739.3	739.3
32.5°	720.6	717.7	713.9	717.7	716.9
35°	693.8	693.8	690.8	691.6	693.8
37.5°	670.0	668.5	667.0	664.8	665.5
40°	643.1	640.9	640.2	638.7	635.7
42.5°	611.8	611.8	608.9	609.6	608.9
45°	583.5	582.8	579.8	579.8	579.8
47.5°	553.7	553.0	550.7	549.2	550.7
50°	523.2	520.2	520.2	517.9	517.2
52.5°	491.1	488.9	485.9	486.6	485.1
55°	456.8	456.1	453.8	453.1	453.1
57.5°	422.5	423.3	421.8	418.8	419.6
60°	389.0	388.3	386.8	385.3	385.3
62.5°	354.7	354.7	351.8	351.8	348.8
65°	320.5	320.5	316.7	318.2	315.2
67.5°	286.2	285.4	283.2	282.4	283.2
70°	248.9	249.7	248.2	248.2	248.9
72.5°	215.4	214.6	213.9	213.9	215.4
75°	181.8	181.1	179.6	179.6	181.1
77.5°	151.3	147.6	146.8	148.3	146.1
80°	120.7	115.5	114.8	114.0	114.0
82.5°	85.0	82.7	83.5	82.7	84.2
85°	53.7	52.9	52.2	52.2	52.9
87.5°	25.3	23.8	23.8	23.1	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)