

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: P292744

Luminaire Tested: **22GR-LD5-43-FGW080-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292744
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-LD5-43-FGW080-UNV-L83050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3637.0 lumens
Efficiency: N/A
Efficacy: 103.5 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

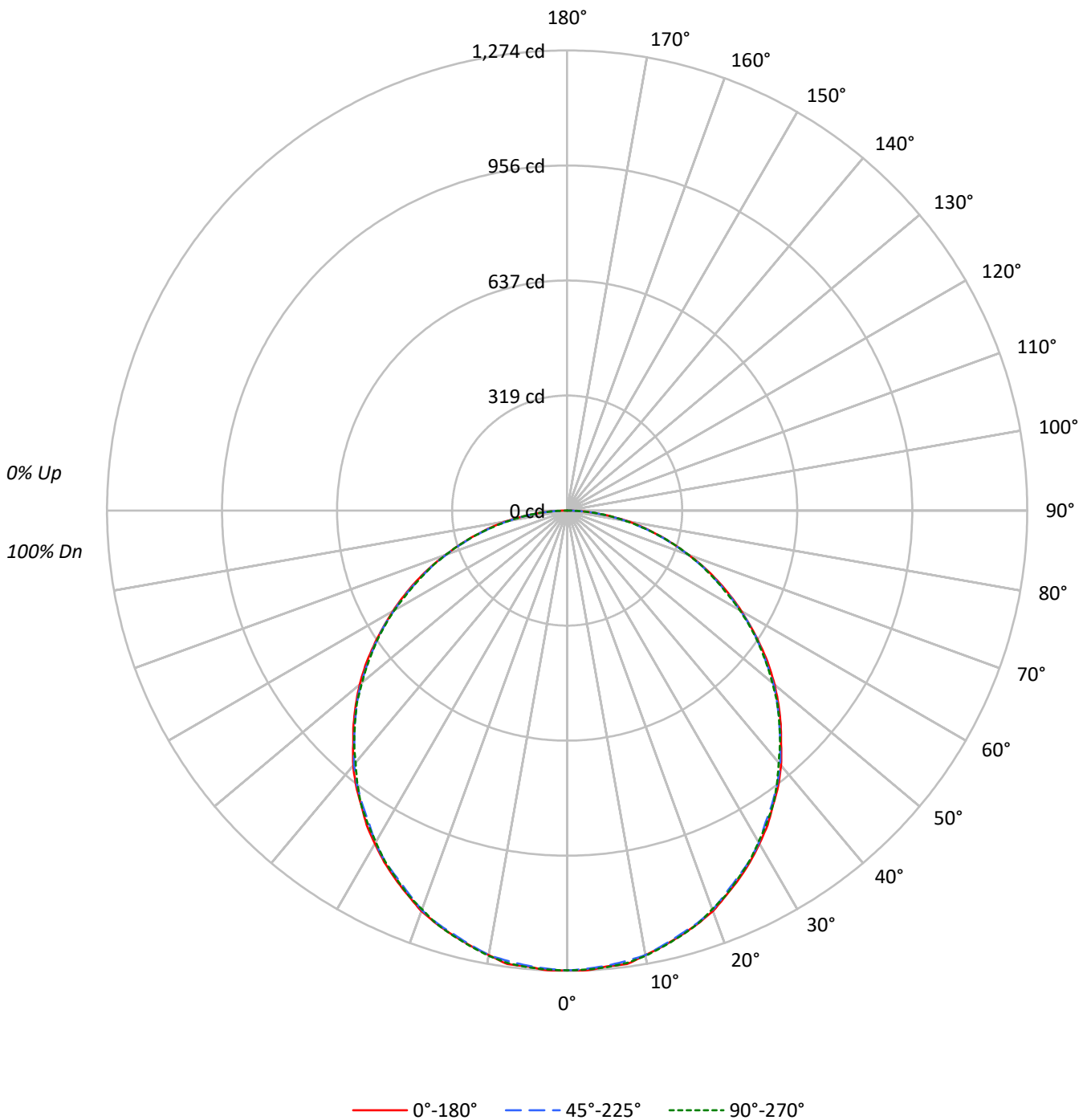
Input Watts (W): 35.154
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292744

CATALOG NUMBER: 22GR-LD5-43-FGW080-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P292744

CATALOG NUMBER: 22GR-LD5-43-FGW080-UNV-L83050-W2A1-U-3500K

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°	3426	3426	3426
5°	3421	3415	3427
10°	3414	3414	3420
15°	3392	3383	3395
20°	3379	3370	3364
25°	3342	3323	3333
30°	3308	3298	3292
35°	3266	3252	3266
40°	3237	3223	3200
45°	3182	3162	3162
50°	3139	3121	3103
55°	3071	3051	3046
60°	3000	2983	2971
65°	2924	2890	2876
70°	2806	2798	2806
75°	2709	2676	2698
80°	2681	2549	2532
85°	2374	2309	2340



TEST NUMBER: P292744

CATALOG NUMBER: 22GR-LD5-43-FGW080-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	3.3
10°-20°	343.6	9.4
20°-30°	517.4	14.2
30°-40°	620.9	17.1
40°-50°	642.5	17.7
50°-60°	582.2	16.0
60°-70°	451.3	12.4
70°-80°	274.0	7.5
80°-90°	84.8	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°	981.4	27.0
0°-40°	1602.3	44.1
0°-60°	2827.0	77.7
0°-90°	3637.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3637.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1273	1273	1273	1273	1273	
5°	1267	1267	1264	1268	1269	121
15°	1218	1218	1214	1220	1218	344
25°	1126	1124	1119	1124	1122	519
35°	994	994	990	991	994	623
45°	836	835	831	831	831	645
55°	655	654	650	649	649	585
65°	459	459	454	456	452	454
75°	261	260	257	257	260	277
85°	77	76	75	75	76	87
90°	0	0	0	0	0	



TEST NUMBER: P292744

CATALOG NUMBER: 22GR-LD5-43-FGW080-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1273.0	1273.0	1273.0	1273.0	1273.0
2.5°	1274.1	1268.7	1269.8	1271.9	1271.9
5°	1266.6	1266.6	1264.4	1267.6	1268.7
7.5°	1266.6	1261.2	1258.0	1261.2	1263.4
10°	1249.5	1247.4	1249.5	1248.4	1251.6
12.5°	1234.5	1232.4	1232.4	1235.6	1235.6
15°	1217.5	1217.5	1214.2	1219.6	1218.5
17.5°	1200.4	1200.4	1198.2	1198.2	1200.4
20°	1180.1	1174.7	1176.9	1175.8	1174.7
22.5°	1152.3	1149.1	1147.0	1150.2	1151.2
25°	1125.6	1123.5	1119.2	1123.5	1122.4
27.5°	1096.8	1094.6	1093.6	1091.4	1093.6
30°	1064.7	1062.6	1061.5	1059.4	1059.4
32.5°	1032.7	1028.4	1023.1	1028.4	1027.4
35°	994.3	994.3	990.0	991.0	994.3
37.5°	960.1	957.9	955.8	952.6	953.7
40°	921.6	918.4	917.4	915.2	911.0
42.5°	876.8	876.8	872.5	873.6	872.5
45°	836.2	835.1	830.9	830.9	830.9
47.5°	793.5	792.4	789.2	787.1	789.2
50°	749.7	745.4	745.4	742.2	741.2
52.5°	703.8	700.6	696.3	697.4	695.2
55°	654.6	653.6	650.4	649.3	649.3
57.5°	605.5	606.6	604.5	600.2	601.2
60°	557.5	556.4	554.3	552.1	552.1
62.5°	508.3	508.3	504.1	504.1	499.8
65°	459.2	459.2	453.9	456.0	451.7
67.5°	410.1	409.0	405.8	404.7	405.8
70°	356.7	357.8	355.6	355.6	356.7
72.5°	308.6	307.6	306.5	306.5	308.6
75°	260.6	259.5	257.4	257.4	259.5
77.5°	216.8	211.5	210.4	212.5	209.3
80°	173.0	165.5	164.5	163.4	163.4
82.5°	121.7	118.5	119.6	118.5	120.7
85°	76.9	75.8	74.8	74.8	75.8
87.5°	36.3	34.2	34.2	33.1	33.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)