

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: P292799

Luminaire Tested: **22GR-LD5-40-FGW080-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292799
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-LD5-40-FGW080-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3542.0 lumens
Efficiency: N/A
Efficacy: 106.4 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

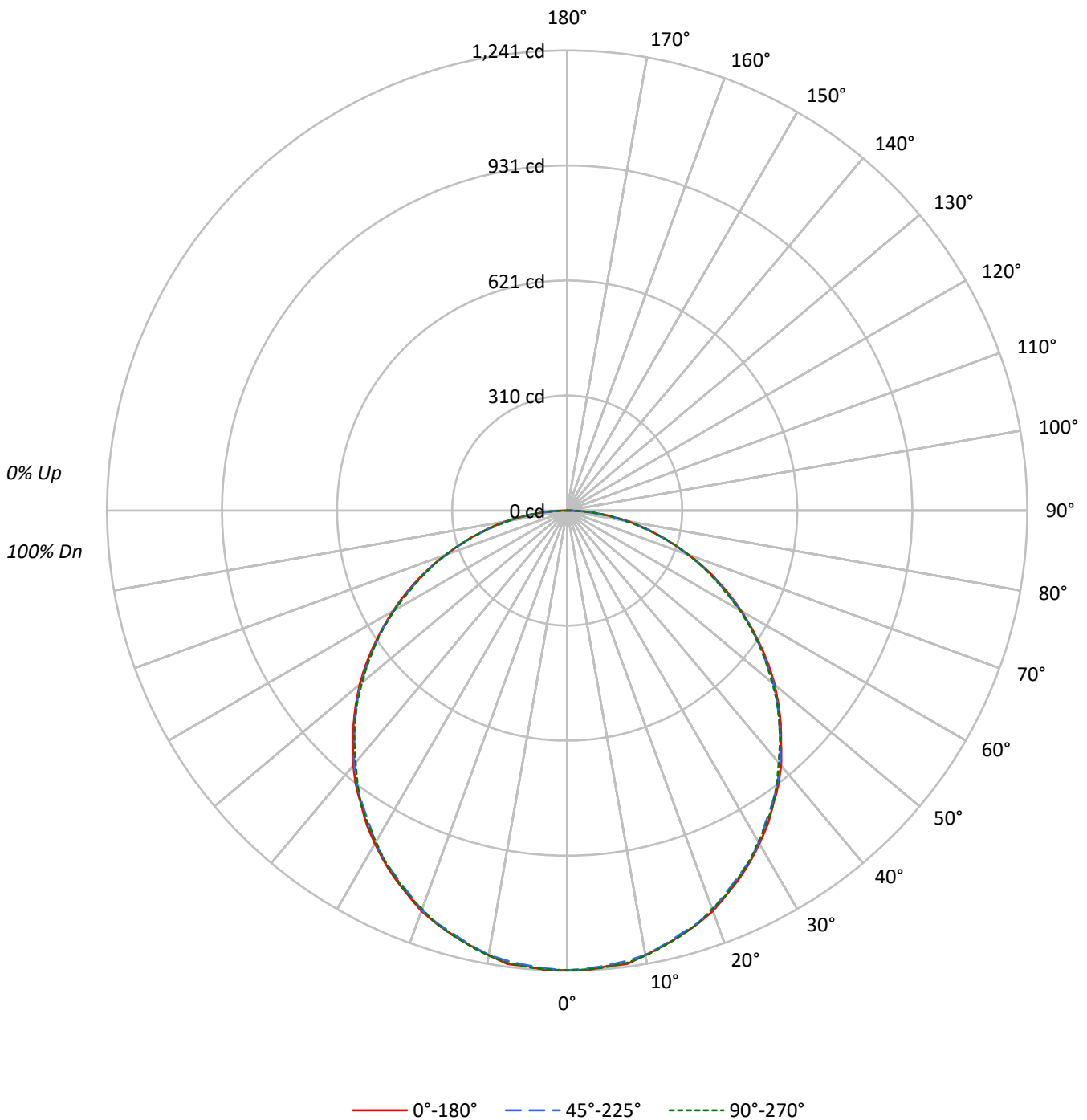
Input Watts (W): 33.294
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292799

CATALOG NUMBER: 22GR-LD5-40-FGW080-UNV-L82765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P292799

CATALOG NUMBER: 22GR-LD5-40-FGW080-UNV-L82765-W2A1-U-5500K

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	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					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3336	3336	3336
5°	3332	3326	3338
10°	3325	3325	3331
15°	3303	3294	3306
20°	3291	3282	3276
25°	3255	3236	3246
30°	3222	3212	3206
35°	3181	3167	3181
40°	3153	3138	3117
45°	3099	3080	3080
50°	3057	3039	3022
55°	2991	2972	2966
60°	2922	2905	2894
65°	2848	2814	2801
70°	2733	2725	2733
75°	2639	2607	2627
80°	2611	2483	2466
85°	2313	2248	2279



TEST NUMBER: P292799

CATALOG NUMBER: 22GR-LD5-40-FGW080-UNV-L82765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	3.3
10°-20°	334.6	9.4
20°-30°	503.9	14.2
30°-40°	604.7	17.1
40°-50°	625.7	17.7
50°-60°	567.0	16.0
60°-70°	439.5	12.4
70°-80°	266.8	7.5
80°-90°	82.6	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°	955.8	27.0
0°-40°	1560.5	44.1
0°-60°	2753.1	77.7
0°-90°	3542.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3542.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1240	1240	1240	1240	1240	
5°	1234	1234	1231	1234	1236	118
15°	1186	1186	1182	1188	1187	335
25°	1096	1094	1090	1094	1093	505
35°	968	968	964	965	968	607
45°	814	813	809	809	809	628
55°	638	636	633	632	632	570
65°	447	447	442	444	440	442
75°	254	253	251	251	253	270
85°	75	74	73	73	74	85
90°	0	0	0	0	0	



TEST NUMBER: P292799

CATALOG NUMBER: 22GR-LD5-40-FGW080-UNV-L82765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1239.7	1239.7	1239.7	1239.7	1239.7
2.5°	1240.8	1235.6	1236.6	1238.7	1238.7
5°	1233.5	1233.5	1231.4	1234.5	1235.6
7.5°	1233.5	1228.3	1225.2	1228.3	1230.4
10°	1216.9	1214.8	1216.9	1215.8	1218.9
12.5°	1202.3	1200.2	1200.2	1203.3	1203.3
15°	1185.7	1185.7	1182.5	1187.7	1186.7
17.5°	1169.0	1169.0	1166.9	1166.9	1169.0
20°	1149.2	1144.0	1146.1	1145.1	1144.0
22.5°	1122.2	1119.1	1117.0	1120.1	1121.2
25°	1096.2	1094.1	1090.0	1094.1	1093.1
27.5°	1068.1	1066.0	1065.0	1062.9	1065.0
30°	1036.9	1034.8	1033.8	1031.7	1031.7
32.5°	1005.7	1001.6	996.4	1001.6	1000.5
35°	968.3	968.3	964.1	965.2	968.3
37.5°	935.0	932.9	930.8	927.7	928.8
40°	897.6	894.4	893.4	891.3	887.2
42.5°	853.9	853.9	849.7	850.8	849.7
45°	814.4	813.3	809.2	809.2	809.2
47.5°	772.8	771.7	768.6	766.5	768.6
50°	730.1	726.0	726.0	722.8	721.8
52.5°	685.4	682.3	678.1	679.1	677.1
55°	637.5	636.5	633.4	632.3	632.3
57.5°	589.7	590.7	588.7	584.5	585.5
60°	542.9	541.9	539.8	537.7	537.7
62.5°	495.1	495.1	490.9	490.9	486.7
65°	447.2	447.2	442.0	444.1	439.9
67.5°	399.4	398.3	395.2	394.2	395.2
70°	347.4	348.4	346.3	346.3	347.4
72.5°	300.6	299.5	298.5	298.5	300.6
75°	253.8	252.7	250.7	250.7	252.7
77.5°	211.1	205.9	204.9	207.0	203.8
80°	168.5	161.2	160.2	159.1	159.1
82.5°	118.6	115.4	116.5	115.4	117.5
85°	74.9	73.8	72.8	72.8	73.8
87.5°	35.4	33.3	33.3	32.2	32.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)