

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: P292739

Luminaire Tested: **22GR-LD5-40-FGW080-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292739
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-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: 3406.0 lumens
Efficiency: N/A
Efficacy: 105.2 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

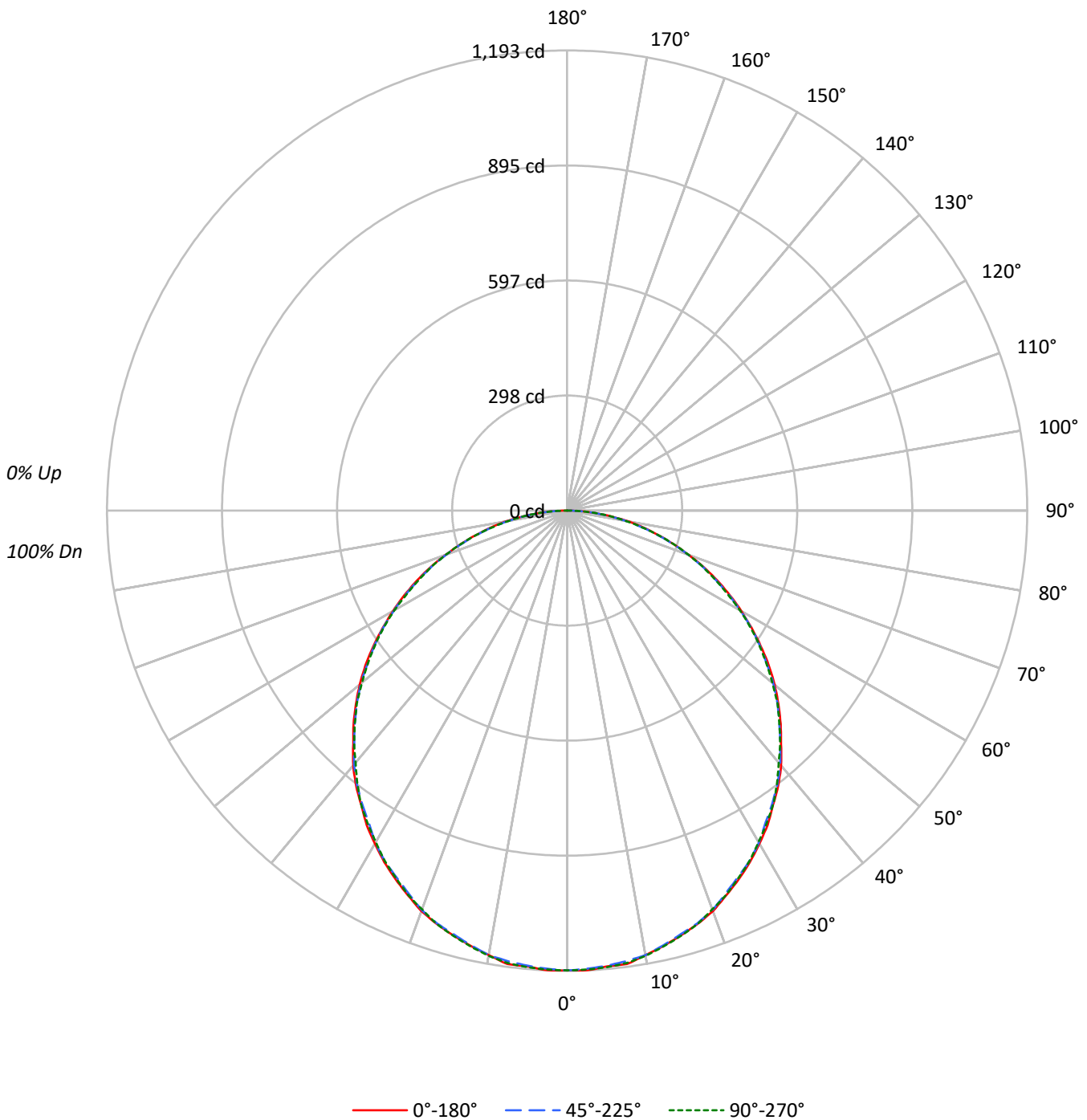
Input Watts (W): 32.364
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292739

CATALOG NUMBER: 22GR-LD5-40-FGW080-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P292739

CATALOG NUMBER: 22GR-LD5-40-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°	3208	3208	3208
5°	3204	3199	3209
10°	3197	3197	3203
15°	3176	3168	3179
20°	3165	3156	3150
25°	3130	3112	3121
30°	3098	3089	3083
35°	3059	3046	3059
40°	3032	3018	2997
45°	2980	2961	2961
50°	2939	2923	2906
55°	2876	2858	2853
60°	2810	2794	2783
65°	2738	2706	2693
70°	2628	2620	2628
75°	2537	2506	2527
80°	2510	2386	2371
85°	2223	2161	2192



TEST NUMBER: P292739

CATALOG NUMBER: 22GR-LD5-40-FGW080-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	3.3
10°-20°	321.8	9.4
20°-30°	484.5	14.2
30°-40°	581.5	17.1
40°-50°	601.7	17.7
50°-60°	545.2	16.0
60°-70°	422.6	12.4
70°-80°	256.5	7.5
80°-90°	79.4	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°	919.1	27.0
0°-40°	1500.5	44.1
0°-60°	2647.4	77.7
0°-90°	3406.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3406.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1192	1192	1192	1192	1192	
5°	1186	1186	1184	1187	1188	113
15°	1140	1140	1137	1142	1141	322
25°	1054	1052	1048	1052	1051	486
35°	931	931	927	928	931	584
45°	783	782	778	778	778	604
55°	613	612	609	608	608	548
65°	430	430	425	427	423	425
75°	244	243	241	241	243	260
85°	72	71	70	70	71	82
90°	0	0	0	0	0	



TEST NUMBER: P292739

CATALOG NUMBER: 22GR-LD5-40-FGW080-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1192.1	1192.1	1192.1	1192.1	1192.1
2.5°	1193.1	1188.1	1189.1	1191.1	1191.1
5°	1186.1	1186.1	1184.1	1187.1	1188.1
7.5°	1186.1	1181.1	1178.1	1181.1	1183.1
10°	1170.1	1168.1	1170.1	1169.1	1172.1
12.5°	1156.1	1154.1	1154.1	1157.1	1157.1
15°	1140.1	1140.1	1137.1	1142.1	1141.1
17.5°	1124.1	1124.1	1122.1	1122.1	1124.1
20°	1105.1	1100.1	1102.1	1101.1	1100.1
22.5°	1079.1	1076.1	1074.1	1077.1	1078.1
25°	1054.1	1052.1	1048.1	1052.1	1051.1
27.5°	1027.1	1025.1	1024.1	1022.1	1024.1
30°	997.1	995.1	994.1	992.1	992.1
32.5°	967.1	963.1	958.1	963.1	962.1
35°	931.1	931.1	927.1	928.1	931.1
37.5°	899.1	897.1	895.1	892.1	893.1
40°	863.1	860.1	859.1	857.1	853.1
42.5°	821.1	821.1	817.1	818.1	817.1
45°	783.1	782.1	778.1	778.1	778.1
47.5°	743.1	742.1	739.1	737.1	739.1
50°	702.1	698.1	698.1	695.1	694.1
52.5°	659.1	656.1	652.1	653.1	651.1
55°	613.1	612.1	609.1	608.1	608.1
57.5°	567.1	568.1	566.1	562.1	563.1
60°	522.1	521.1	519.1	517.1	517.1
62.5°	476.1	476.1	472.1	472.1	468.1
65°	430.0	430.0	425.0	427.0	423.0
67.5°	384.0	383.0	380.0	379.0	380.0
70°	334.0	335.0	333.0	333.0	334.0
72.5°	289.0	288.0	287.0	287.0	289.0
75°	244.0	243.0	241.0	241.0	243.0
77.5°	203.0	198.0	197.0	199.0	196.0
80°	162.0	155.0	154.0	153.0	153.0
82.5°	114.0	111.0	112.0	111.0	113.0
85°	72.0	71.0	70.0	70.0	71.0
87.5°	34.0	32.0	32.0	31.0	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)