

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: P292838

Luminaire Tested: **22GR-LD5-40-FGW080-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292838
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-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: 3127.0 lumens
Efficiency: N/A
Efficacy: 94.2 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

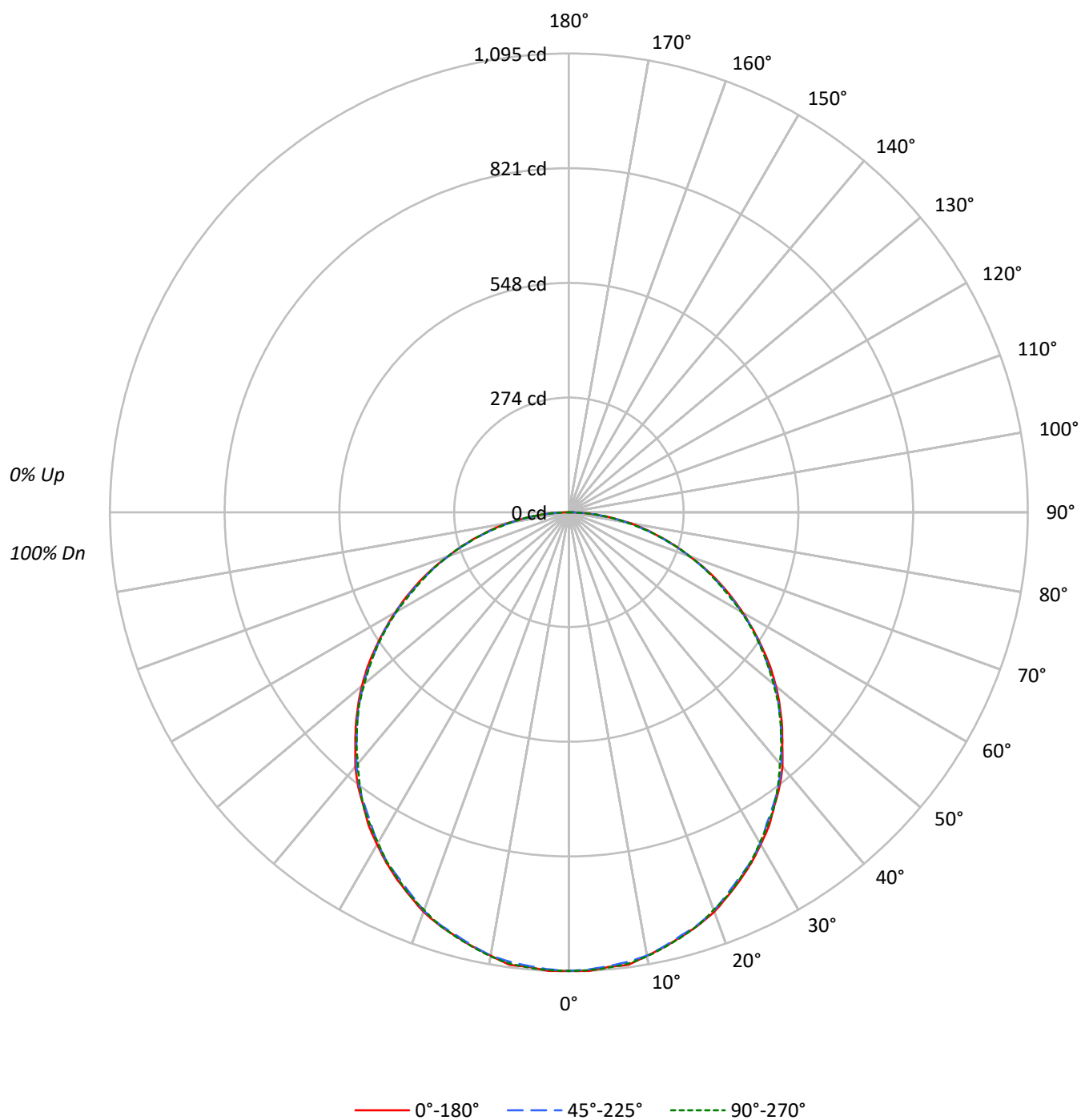
Input Watts (W): 33.201
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	94	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	85	79	74		81	77	73		78
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2945	2945	2945
5°	2942	2937	2947
10°	2936	2936	2940
15°	2916	2908	2919
20°	2905	2897	2892
25°	2874	2857	2865
30°	2844	2836	2830
35°	2808	2796	2808
40°	2784	2771	2751
45°	2736	2718	2718
50°	2699	2683	2668
55°	2640	2624	2619
60°	2580	2565	2555
65°	2514	2485	2473
70°	2413	2406	2413
75°	2329	2301	2320
80°	2304	2191	2177
85°	2041	1985	2013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	3.3
10°-20°	295.4	9.4
20°-30°	444.8	14.2
30°-40°	533.8	17.1
40°-50°	552.4	17.7
50°-60°	500.5	16.0
60°-70°	388.0	12.4
70°-80°	235.5	7.5
80°-90°	72.9	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°	843.8	27.0
0°-40°	1377.6	44.1
0°-60°	2430.5	77.7
0°-90°	3127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3127.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1094	1094	1094	1094	1094	
5°	1089	1089	1087	1090	1091	104
15°	1047	1047	1044	1049	1048	296
25°	968	966	962	966	965	446
35°	855	855	851	852	855	536
45°	719	718	714	714	714	555
55°	563	562	559	558	558	503
65°	395	395	390	392	388	390
75°	224	223	221	221	223	238
85°	66	65	64	64	65	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1094.5	1094.5	1094.5	1094.5	1094.5
2.5°	1095.4	1090.8	1091.7	1093.6	1093.6
5°	1089.0	1089.0	1087.1	1089.9	1090.8
7.5°	1089.0	1084.4	1081.6	1084.4	1086.2
10°	1074.3	1072.4	1074.3	1073.4	1076.1
12.5°	1061.4	1059.6	1059.6	1062.3	1062.3
15°	1046.7	1046.7	1044.0	1048.6	1047.7
17.5°	1032.0	1032.0	1030.2	1030.2	1032.0
20°	1014.6	1010.0	1011.8	1010.9	1010.0
22.5°	990.7	988.0	986.1	988.9	989.8
25°	967.8	965.9	962.3	965.9	965.0
27.5°	943.0	941.1	940.2	938.4	940.2
30°	915.4	913.6	912.7	910.8	910.8
32.5°	887.9	884.2	879.6	884.2	883.3
35°	854.8	854.8	851.2	852.1	854.8
37.5°	825.5	823.6	821.8	819.0	819.9
40°	792.4	789.6	788.7	786.9	783.2
42.5°	753.8	753.8	750.2	751.1	750.2
45°	718.9	718.0	714.3	714.3	714.3
47.5°	682.2	681.3	678.5	676.7	678.5
50°	644.6	640.9	640.9	638.1	637.2
52.5°	605.1	602.3	598.7	599.6	597.7
55°	562.8	561.9	559.2	558.3	558.3
57.5°	520.6	521.5	519.7	516.0	516.9
60°	479.3	478.4	476.5	474.7	474.7
62.5°	437.1	437.1	433.4	433.4	429.7
65°	394.8	394.8	390.2	392.1	388.4
67.5°	352.6	351.7	348.9	348.0	348.9
70°	306.7	307.6	305.8	305.8	306.7
72.5°	265.4	264.4	263.5	263.5	265.4
75°	224.0	223.1	221.3	221.3	223.1
77.5°	186.4	181.8	180.9	182.7	180.0
80°	148.7	142.3	141.4	140.5	140.5
82.5°	104.7	101.9	102.8	101.9	103.8
85°	66.1	65.2	64.3	64.3	65.2
87.5°	31.2	29.4	29.4	28.5	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)