

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: P292898

Luminaire Tested: **22GR-LD5-40-FGW080-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292898
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-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: 3211.0 lumens
Efficiency: N/A
Efficacy: 96.2 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

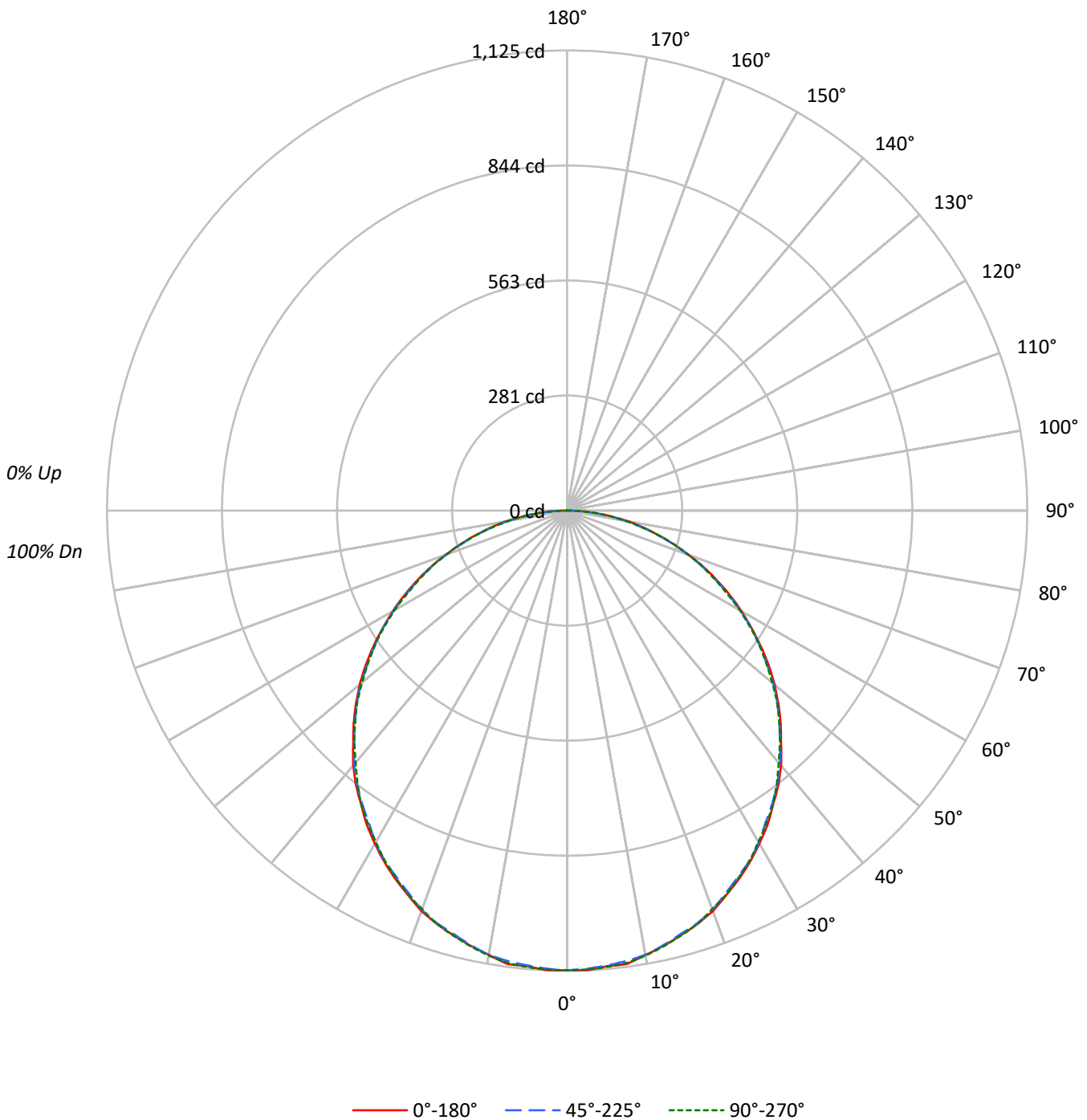
Input Watts (W): 33.387
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3024	3024	3024
5°	3021	3015	3026
10°	3014	3014	3019
15°	2995	2986	2997
20°	2984	2975	2970
25°	2951	2934	2942
30°	2921	2912	2906
35°	2884	2871	2884
40°	2858	2845	2825
45°	2810	2791	2791
50°	2771	2755	2739
55°	2712	2694	2690
60°	2649	2633	2624
65°	2581	2551	2539
70°	2478	2471	2478
75°	2392	2362	2382
80°	2366	2250	2236
85°	2096	2038	2066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	3.3
10°-20°	303.4	9.4
20°-30°	456.8	14.2
30°-40°	548.2	17.1
40°-50°	567.2	17.7
50°-60°	514.0	16.0
60°-70°	398.4	12.4
70°-80°	241.9	7.5
80°-90°	74.9	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°	866.5	27.0
0°-40°	1414.6	44.1
0°-60°	2495.9	77.7
0°-90°	3211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1118	1118	1116	1119	1120	107
15°	1075	1075	1072	1077	1076	304
25°	994	992	988	992	991	458
35°	878	878	874	875	878	550
45°	738	737	734	734	734	570
55°	578	577	574	573	573	517
65°	405	405	401	403	399	401
75°	230	229	227	227	229	245
85°	68	67	66	66	67	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1123.9	1123.9	1123.9	1123.9	1123.9
2.5°	1124.8	1120.1	1121.1	1122.9	1122.9
5°	1118.2	1118.2	1116.3	1119.2	1120.1
7.5°	1118.2	1113.5	1110.7	1113.5	1115.4
10°	1103.1	1101.3	1103.1	1102.2	1105.0
12.5°	1089.9	1088.1	1088.1	1090.9	1090.9
15°	1074.9	1074.9	1072.0	1076.7	1075.8
17.5°	1059.8	1059.8	1057.9	1057.9	1059.8
20°	1041.9	1037.1	1039.0	1038.1	1037.1
22.5°	1017.3	1014.5	1012.6	1015.5	1016.4
25°	993.8	991.9	988.1	991.9	990.9
27.5°	968.3	966.4	965.5	963.6	965.5
30°	940.0	938.1	937.2	935.3	935.3
32.5°	911.7	908.0	903.3	908.0	907.0
35°	877.8	877.8	874.0	875.0	877.8
37.5°	847.6	845.7	843.9	841.0	842.0
40°	813.7	810.9	809.9	808.0	804.3
42.5°	774.1	774.1	770.3	771.3	770.3
45°	738.3	737.3	733.5	733.5	733.5
47.5°	700.5	699.6	696.8	694.9	696.8
50°	661.9	658.1	658.1	655.3	654.3
52.5°	621.3	618.5	614.7	615.7	613.8
55°	578.0	577.0	574.2	573.3	573.3
57.5°	534.6	535.5	533.7	529.9	530.8
60°	492.2	491.2	489.3	487.5	487.5
62.5°	448.8	448.8	445.0	445.0	441.3
65°	405.4	405.4	400.7	402.6	398.8
67.5°	362.1	361.1	358.3	357.3	358.3
70°	314.9	315.9	314.0	314.0	314.9
72.5°	272.5	271.5	270.6	270.6	272.5
75°	230.1	229.1	227.2	227.2	229.1
77.5°	191.4	186.7	185.7	187.6	184.8
80°	152.7	146.1	145.2	144.3	144.3
82.5°	107.5	104.7	105.6	104.7	106.5
85°	67.9	66.9	66.0	66.0	66.9
87.5°	32.1	30.2	30.2	29.2	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)