

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: P292903

Luminaire Tested: **22GR-LD5-43-FGW080-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292903
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-L92765-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: 3212.0 lumens
Efficiency: N/A
Efficacy: 90.4 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

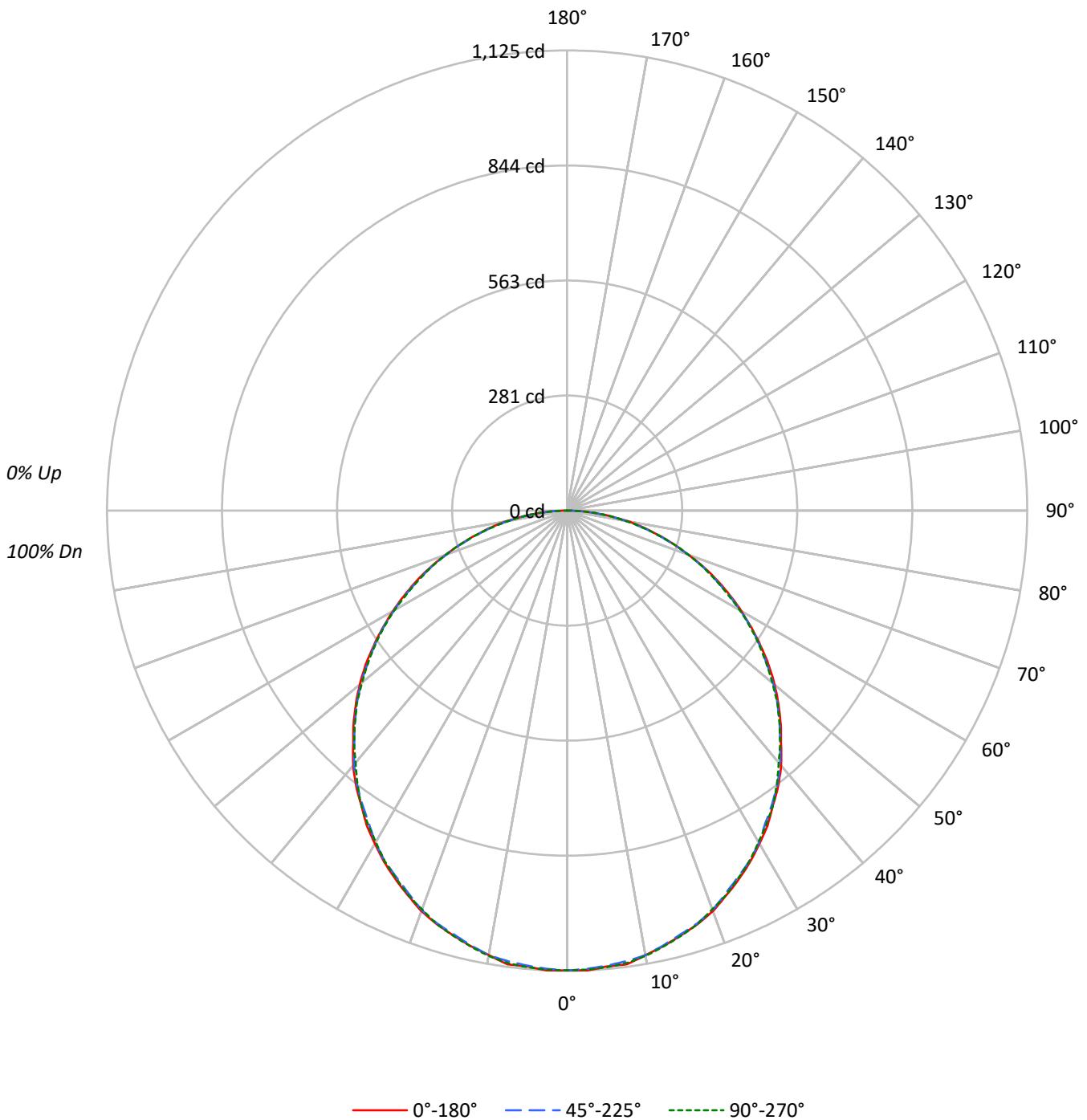
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3025	3025	3025
5°	3022	3016	3027
10°	3015	3015	3020
15°	2995	2988	2998
20°	2985	2976	2971
25°	2952	2935	2943
30°	2922	2913	2907
35°	2885	2872	2885
40°	2859	2846	2826
45°	2810	2793	2793
50°	2772	2756	2740
55°	2712	2695	2690
60°	2650	2634	2624
65°	2583	2552	2541
70°	2478	2471	2478
75°	2392	2363	2383
80°	2368	2250	2236
85°	2096	2038	2069



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	3.3
10°-20°	303.5	9.4
20°-30°	456.9	14.2
30°-40°	548.3	17.1
40°-50°	567.4	17.7
50°-60°	514.1	16.0
60°-70°	398.6	12.4
70°-80°	242.0	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°	866.7	27.0
0°-40°	1415.1	44.1
0°-60°	2496.6	77.7
0°-90°	3212.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3212.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1119	1119	1117	1120	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	738	734	734	734	570
55°	578	577	574	573	573	517
65°	406	406	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°	1124.2	1124.2	1124.2	1124.2	1124.2
2.5°	1125.2	1120.5	1121.4	1123.3	1123.3
5°	1118.6	1118.6	1116.7	1119.5	1120.5
7.5°	1118.6	1113.9	1111.0	1113.9	1115.7
10°	1103.5	1101.6	1103.5	1102.5	1105.4
12.5°	1090.3	1088.4	1088.4	1091.2	1091.2
15°	1075.2	1075.2	1072.4	1077.1	1076.1
17.5°	1060.1	1060.1	1058.2	1058.2	1060.1
20°	1042.2	1037.5	1039.3	1038.4	1037.5
22.5°	1017.7	1014.8	1012.9	1015.8	1016.7
25°	994.1	992.2	988.4	992.2	991.2
27.5°	968.6	966.7	965.8	963.9	965.8
30°	940.3	938.4	937.5	935.6	935.6
32.5°	912.0	908.2	903.5	908.2	907.3
35°	878.1	878.1	874.3	875.2	878.1
37.5°	847.9	846.0	844.1	841.3	842.2
40°	813.9	811.1	810.2	808.3	804.5
42.5°	774.3	774.3	770.6	771.5	770.6
45°	738.5	737.5	733.8	733.8	733.8
47.5°	700.8	699.8	697.0	695.1	697.0
50°	662.1	658.3	658.3	655.5	654.5
52.5°	621.5	618.7	614.9	615.9	614.0
55°	578.1	577.2	574.4	573.4	573.4
57.5°	534.8	535.7	533.8	530.0	531.0
60°	492.3	491.4	489.5	487.6	487.6
62.5°	448.9	448.9	445.2	445.2	441.4
65°	405.6	405.6	400.8	402.7	399.0
67.5°	362.2	361.2	358.4	357.5	358.4
70°	315.0	316.0	314.1	314.1	315.0
72.5°	272.6	271.6	270.7	270.7	272.6
75°	230.1	229.2	227.3	227.3	229.2
77.5°	191.5	186.7	185.8	187.7	184.9
80°	152.8	146.2	145.2	144.3	144.3
82.5°	107.5	104.7	105.6	104.7	106.6
85°	67.9	67.0	66.0	66.0	67.0
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)