

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: P292897

Luminaire Tested: **22GR-LD5-40-FGW080-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292897
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-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3197.0 lumens
Efficiency: N/A
Efficacy: 96.0 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

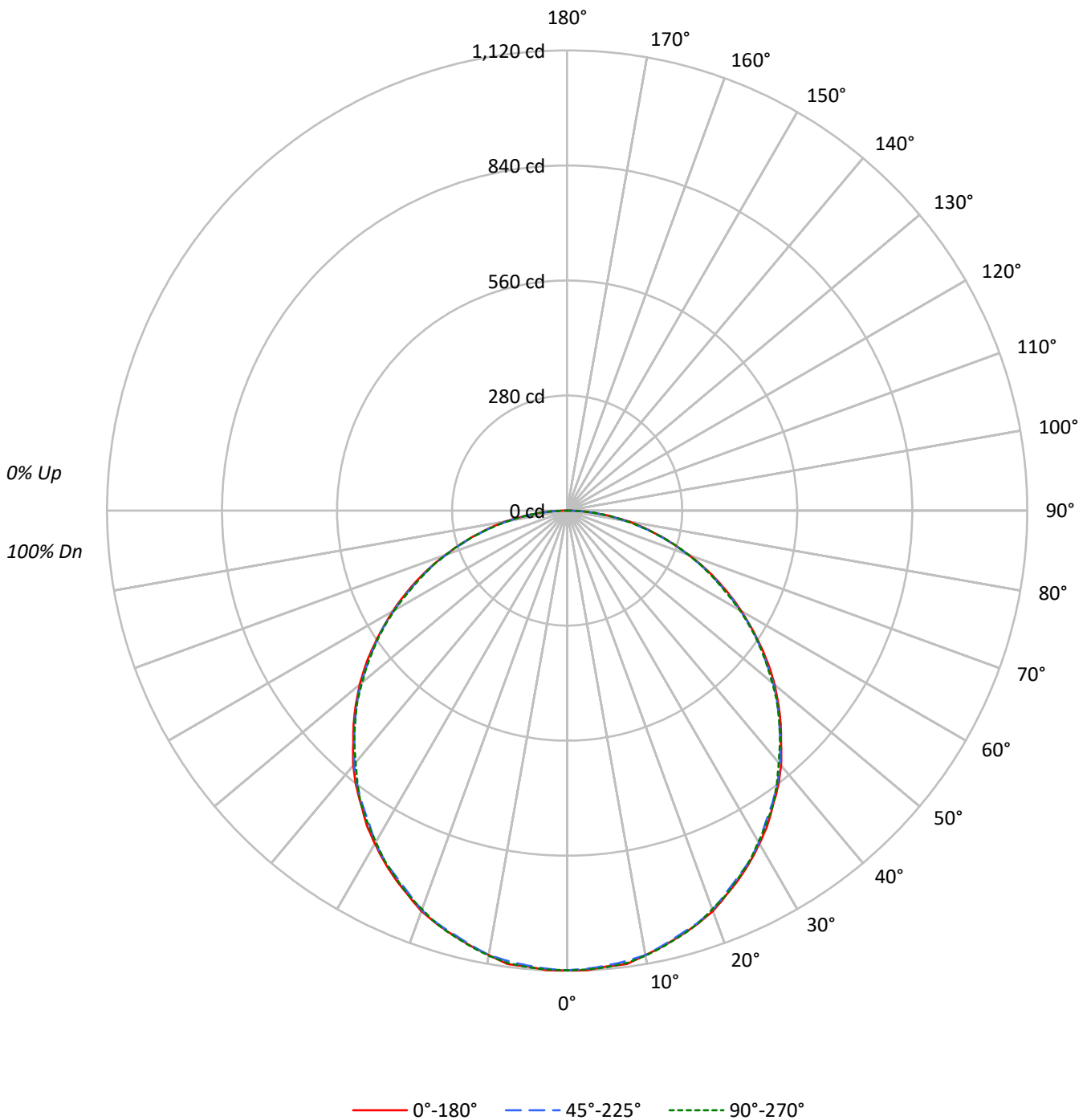
Input Watts (W): 33.294
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3011	3011	3011
5°	3007	3002	3012
10°	3001	3001	3006
15°	2981	2973	2984
20°	2970	2962	2957
25°	2938	2921	2929
30°	2908	2899	2893
35°	2871	2859	2871
40°	2846	2833	2813
45°	2797	2779	2779
50°	2759	2743	2727
55°	2700	2682	2678
60°	2637	2622	2612
65°	2571	2541	2528
70°	2467	2460	2467
75°	2382	2352	2372
80°	2357	2241	2225
85°	2087	2029	2059



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	3.3
10°-20°	302.0	9.4
20°-30°	454.8	14.2
30°-40°	545.8	17.1
40°-50°	564.7	17.7
50°-60°	511.7	16.0
60°-70°	396.7	12.4
70°-80°	240.8	7.5
80°-90°	74.5	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°	862.7	27.0
0°-40°	1408.5	44.1
0°-60°	2485.0	77.7
0°-90°	3197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3197.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1119	1119	1119	1119	1119	
5°	1113	1113	1112	1114	1115	106
15°	1070	1070	1067	1072	1071	302
25°	989	988	984	988	987	456
35°	874	874	870	871	874	548
45°	735	734	730	730	730	567
55°	575	574	572	571	571	515
65°	404	404	399	401	397	399
75°	229	228	226	226	228	244
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°	1119.0	1119.0	1119.0	1119.0	1119.0
2.5°	1119.9	1115.2	1116.2	1118.0	1118.0
5°	1113.3	1113.3	1111.5	1114.3	1115.2
7.5°	1113.3	1108.7	1105.8	1108.7	1110.5
10°	1098.3	1096.5	1098.3	1097.4	1100.2
12.5°	1085.2	1083.3	1083.3	1086.1	1086.1
15°	1070.2	1070.2	1067.3	1072.0	1071.1
17.5°	1055.1	1055.1	1053.3	1053.3	1055.1
20°	1037.3	1032.6	1034.5	1033.6	1032.6
22.5°	1012.9	1010.1	1008.2	1011.0	1012.0
25°	989.4	987.6	983.8	987.6	986.6
27.5°	964.1	962.2	961.3	959.4	961.3
30°	935.9	934.0	933.1	931.2	931.2
32.5°	907.8	904.0	899.3	904.0	903.1
35°	874.0	874.0	870.2	871.2	874.0
37.5°	843.9	842.1	840.2	837.4	838.3
40°	810.1	807.3	806.4	804.5	800.7
42.5°	770.7	770.7	767.0	767.9	767.0
45°	735.0	734.1	730.3	730.3	730.3
47.5°	697.5	696.5	693.7	691.9	693.7
50°	659.0	655.2	655.2	652.4	651.5
52.5°	618.6	615.8	612.1	613.0	611.1
55°	575.4	574.5	571.7	570.8	570.8
57.5°	532.3	533.2	531.3	527.6	528.5
60°	490.0	489.1	487.2	485.3	485.3
62.5°	446.8	446.8	443.1	443.1	439.3
65°	403.7	403.7	399.0	400.8	397.1
67.5°	360.5	359.5	356.7	355.8	356.7
70°	313.5	314.5	312.6	312.6	313.5
72.5°	271.3	270.4	269.4	269.4	271.3
75°	229.1	228.1	226.2	226.2	228.1
77.5°	190.6	185.9	184.9	186.8	184.0
80°	152.1	145.5	144.6	143.6	143.6
82.5°	107.0	104.2	105.1	104.2	106.1
85°	67.6	66.7	65.7	65.7	66.7
87.5°	31.9	30.0	30.0	29.1	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)