

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: P291668

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-FGW080-UNV-L93050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3116.9 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

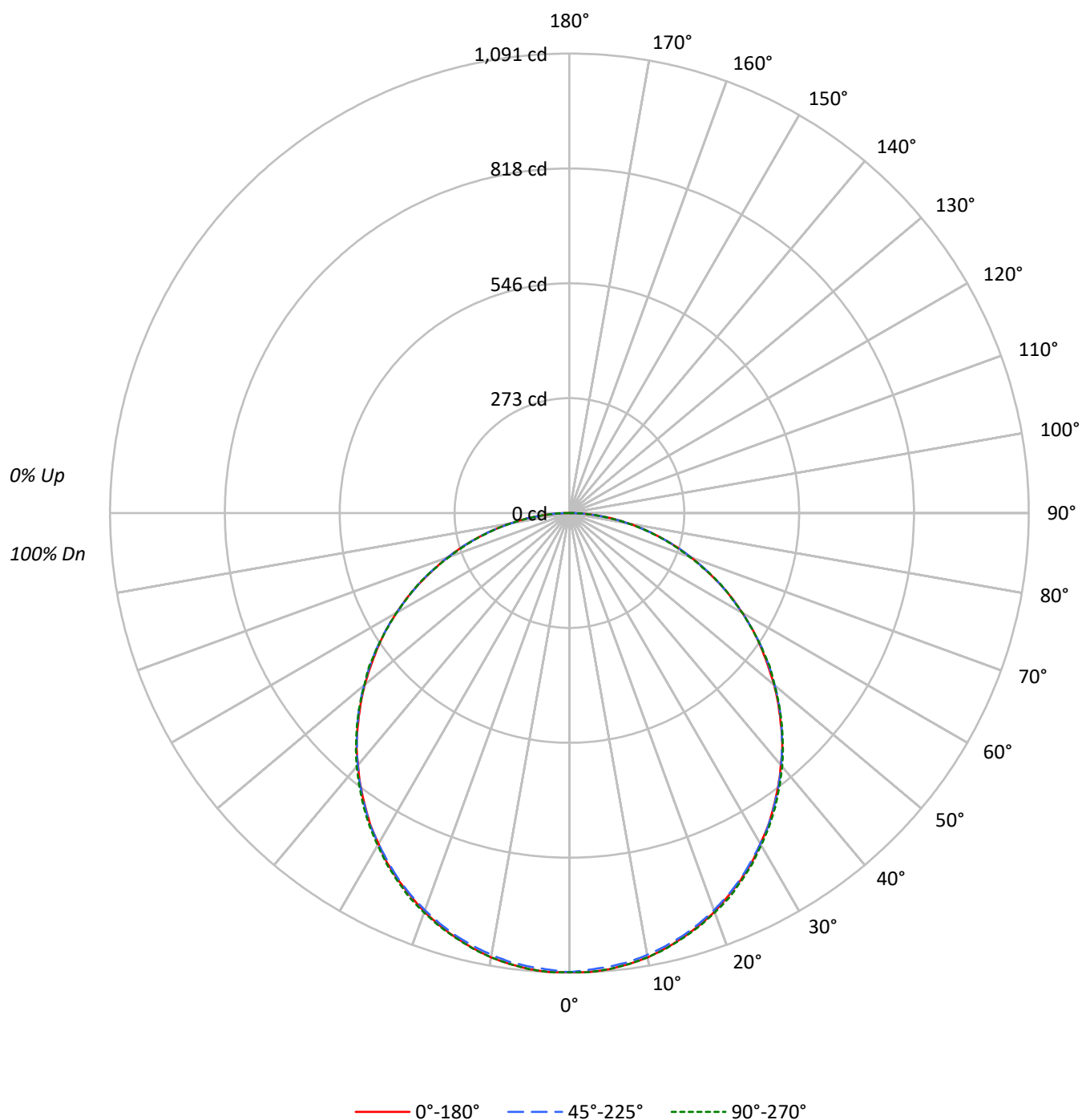
Input Watts (W): 38.13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	93		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	40	68	55	47	40		53	46	40		52	45	40		50	44	39
7	64	51	42	36	63	50	42	36		48	41	35		47	40	35		46	39	35
8	60	46	38	32	58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	28		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2933	2933	2933
5°	2937	2920	2937
10°	2927	2911	2927
15°	2906	2895	2909
20°	2885	2873	2891
25°	2855	2849	2864
30°	2817	2817	2830
35°	2782	2785	2799
40°	2744	2748	2762
45°	2704	2711	2715
50°	2657	2665	2661
55°	2604	2618	2613
60°	2553	2553	2553
65°	2493	2493	2506
70°	2415	2415	2391
75°	2331	2321	2310
80°	2224	2208	2193
85°	2093	2062	2001



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.1	3.3
10°-20°	294.2	9.4
20°-30°	443.3	14.2
30°-40°	531.3	17.0
40°-50°	549.4	17.6
50°-60°	498.1	16.0
60°-70°	387.1	12.4
70°-80°	236.4	7.6
80°-90°	74.0	2.4
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°	840.6	27.0
0°-40°	1371.9	44.0
0°-60°	2419.4	77.6
0°-90°	3116.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3116.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1087	1086	1081	1086	1087	103
15°	1043	1043	1039	1044	1044	294
25°	962	962	960	966	964	443
35°	847	848	848	852	852	530
45°	710	711	712	713	713	548
55°	555	557	558	558	557	496
65°	392	392	392	390	394	387
75°	224	224	223	222	222	237
85°	68	66	67	65	65	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1090.1	1090.1	1090.1	1090.1	1090.1
2.5°	1091.1	1090.1	1085.1	1090.1	1091.1
5°	1087.1	1086.1	1081.1	1086.1	1087.1
7.5°	1080.1	1080.1	1075.1	1080.1	1080.1
10°	1071.1	1070.1	1065.2	1070.1	1071.1
12.5°	1058.2	1058.2	1053.2	1058.2	1059.2
15°	1043.2	1043.2	1039.3	1044.2	1044.2
17.5°	1026.3	1027.3	1022.3	1028.3	1028.3
20°	1007.4	1006.4	1003.4	1008.4	1009.4
22.5°	984.5	985.5	982.5	988.4	989.4
25°	961.5	961.5	959.5	965.5	964.5
27.5°	936.6	936.6	933.6	938.6	939.6
30°	906.7	907.7	906.7	911.7	910.7
32.5°	878.8	879.8	879.8	881.8	882.8
35°	847.0	847.9	847.9	851.9	851.9
37.5°	815.1	815.1	816.1	819.1	819.1
40°	781.2	782.2	782.2	785.2	786.2
42.5°	748.3	746.3	747.3	750.3	750.3
45°	710.4	711.4	712.4	713.4	713.4
47.5°	672.6	674.6	675.6	676.6	675.6
50°	634.7	636.7	636.7	635.7	635.7
52.5°	593.9	598.8	597.8	597.8	599.8
55°	555.0	557.0	558.0	558.0	557.0
57.5°	516.1	518.1	516.1	517.1	515.1
60°	474.3	475.3	474.3	474.3	474.3
62.5°	433.4	434.4	432.4	432.4	432.4
65°	391.6	391.6	391.6	389.6	393.6
67.5°	347.7	349.7	349.7	350.7	346.8
70°	306.9	307.9	306.9	305.9	303.9
72.5°	266.0	267.0	268.0	264.0	263.1
75°	224.2	224.2	223.2	222.2	222.2
77.5°	183.3	183.3	183.3	181.3	181.3
80°	143.5	144.5	142.5	142.5	141.5
82.5°	104.6	104.6	104.6	103.6	101.6
85°	67.8	65.8	66.8	64.8	64.8
87.5°	30.9	30.9	30.9	28.9	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)