

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: P291568

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291568
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-L83050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3337.0 lumens
Efficiency: N/A
Efficacy: 91.3 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

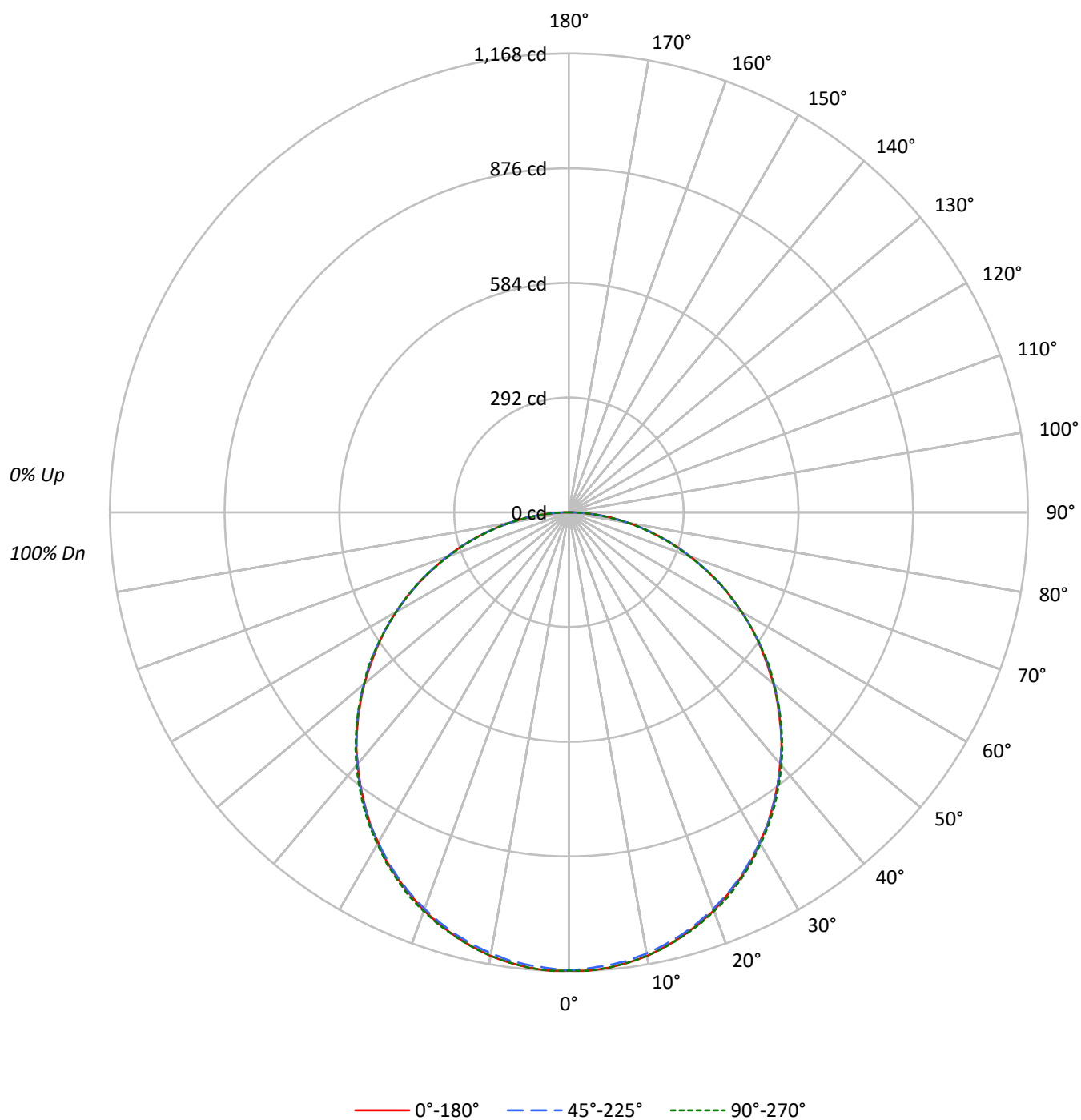
Input Watts (W): 36.549
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	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	40	68	55	47	40	53	46	40		52	45	40		50
7	64	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°	3140	3140	3140
5°	3144	3126	3144
10°	3133	3116	3133
15°	3112	3100	3114
20°	3088	3076	3094
25°	3056	3050	3066
30°	3016	3016	3030
35°	2979	2982	2996
40°	2938	2942	2957
45°	2895	2903	2907
50°	2845	2853	2849
55°	2788	2803	2798
60°	2733	2733	2733
65°	2669	2669	2683
70°	2585	2585	2560
75°	2495	2485	2473
80°	2380	2363	2348
85°	2238	2208	2140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	3.3
10°-20°	314.9	9.4
20°-30°	474.6	14.2
30°-40°	568.8	17.0
40°-50°	588.2	17.6
50°-60°	533.3	16.0
60°-70°	414.5	12.4
70°-80°	253.2	7.6
80°-90°	79.2	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°	899.9	27.0
0°-40°	1468.7	44.0
0°-60°	2590.2	77.6
0°-90°	3337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3337.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1167	1167	1167	1167	1167	
5°	1164	1163	1157	1163	1164	111
15°	1117	1117	1113	1118	1118	315
25°	1029	1029	1027	1034	1033	474
35°	907	908	908	912	912	567
45°	761	762	763	764	764	587
55°	594	596	597	597	596	532
65°	419	419	419	417	421	414
75°	240	240	239	238	238	254
85°	72	70	72	69	69	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1167.0	1167.0	1167.0	1167.0	1167.0
2.5°	1168.1	1167.0	1161.7	1167.0	1168.1
5°	1163.8	1162.7	1157.4	1162.7	1163.8
7.5°	1156.3	1156.3	1151.0	1156.3	1156.3
10°	1146.7	1145.7	1140.3	1145.7	1146.7
12.5°	1132.9	1132.9	1127.5	1132.9	1133.9
15°	1116.9	1116.9	1112.6	1117.9	1117.9
17.5°	1098.7	1099.8	1094.5	1100.9	1100.9
20°	1078.5	1077.4	1074.2	1079.5	1080.6
22.5°	1053.9	1055.0	1051.8	1058.2	1059.3
25°	1029.4	1029.4	1027.3	1033.7	1032.6
27.5°	1002.7	1002.7	999.5	1004.9	1005.9
30°	970.7	971.8	970.7	976.1	975.0
32.5°	940.9	941.9	941.9	944.1	945.1
35°	906.7	907.8	907.8	912.1	912.1
37.5°	872.6	872.6	873.7	876.9	876.9
40°	836.3	837.4	837.4	840.6	841.7
42.5°	801.1	799.0	800.1	803.3	803.3
45°	760.6	761.7	762.7	763.8	763.8
47.5°	720.1	722.2	723.3	724.3	723.3
50°	679.5	681.6	681.6	680.6	680.6
52.5°	635.8	641.1	640.0	640.0	642.2
55°	594.2	596.3	597.4	597.4	596.3
57.5°	552.6	554.7	552.6	553.6	551.5
60°	507.8	508.8	507.8	507.8	507.8
62.5°	464.0	465.1	463.0	463.0	463.0
65°	419.2	419.2	419.2	417.1	421.4
67.5°	372.3	374.4	374.4	375.5	371.2
70°	328.6	329.6	328.6	327.5	325.4
72.5°	284.8	285.9	287.0	282.7	281.6
75°	240.0	240.0	239.0	237.9	237.9
77.5°	196.3	196.3	196.3	194.1	194.1
80°	153.6	154.7	152.5	152.5	151.5
82.5°	112.0	112.0	112.0	110.9	108.8
85°	72.5	70.4	71.5	69.3	69.3
87.5°	33.1	33.1	33.1	30.9	35.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)