

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: P291565

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291565
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-LD5-40-FGW080-UNV-L83050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3315.0 lumens
Efficiency: N/A
Efficacy: 93.8 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

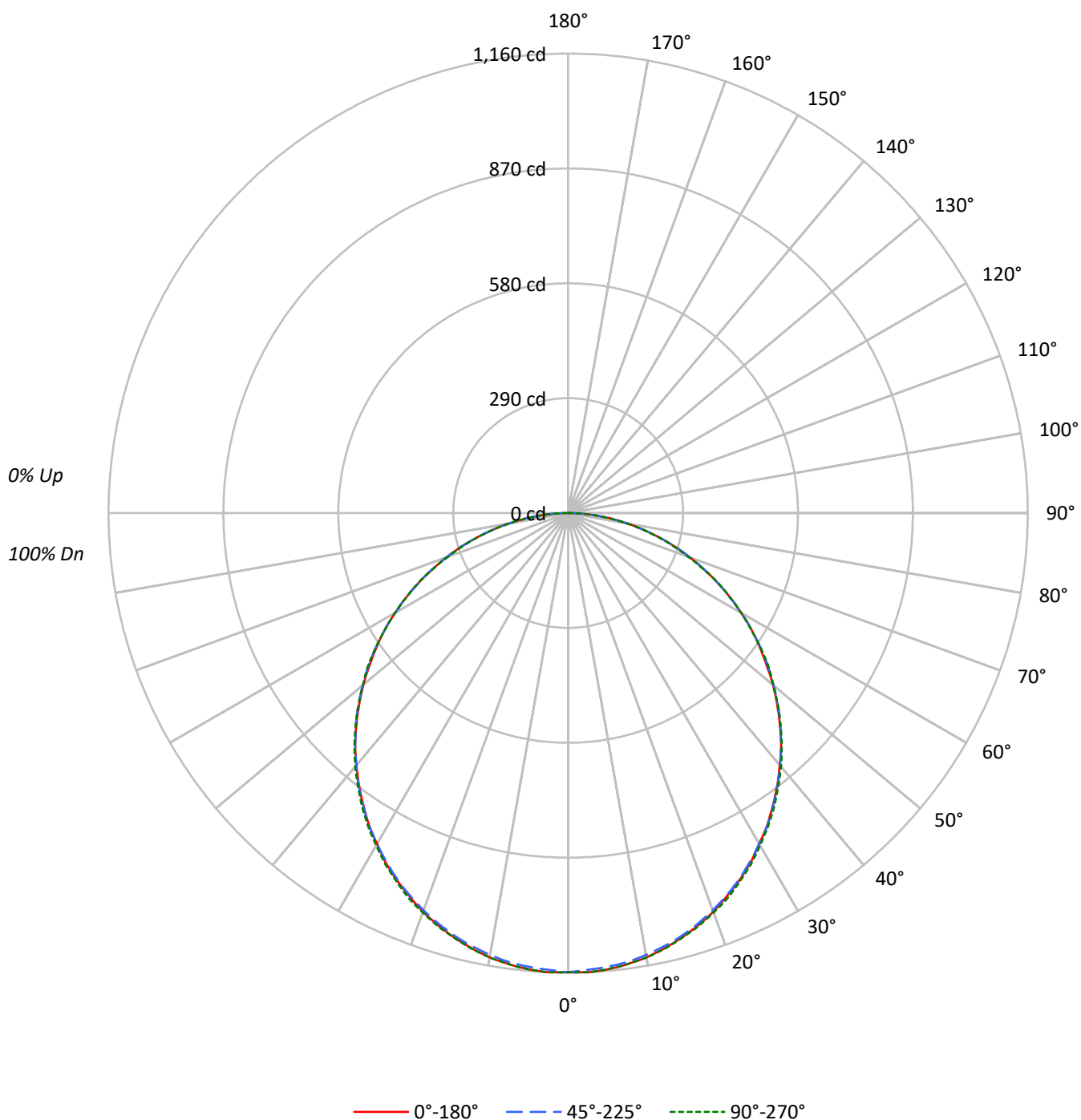
Input Watts (W): 35.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3120	3120	3120
5°	3123	3106	3123
10°	3113	3095	3113
15°	3091	3079	3094
20°	3068	3056	3074
25°	3036	3030	3046
30°	2996	2996	3010
35°	2959	2962	2977
40°	2918	2922	2937
45°	2876	2884	2888
50°	2826	2835	2830
55°	2769	2784	2779
60°	2715	2715	2715
65°	2652	2652	2665
70°	2568	2568	2543
75°	2479	2468	2457
80°	2365	2348	2332
85°	2226	2192	2127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	3.3
10°-20°	312.9	9.4
20°-30°	471.5	14.2
30°-40°	565.0	17.0
40°-50°	584.3	17.6
50°-60°	529.8	16.0
60°-70°	411.7	12.4
70°-80°	251.5	7.6
80°-90°	78.7	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°	894.0	27.0
0°-40°	1459.0	44.0
0°-60°	2573.1	77.6
0°-90°	3315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3315.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1159	1159	1159	1159	1159	
5°	1156	1155	1150	1155	1156	110
15°	1110	1110	1105	1111	1111	313
25°	1023	1023	1020	1027	1026	471
35°	901	902	902	906	906	564
45°	756	757	758	759	759	583
55°	590	592	593	593	592	528
65°	416	416	416	414	419	411
75°	238	238	237	236	236	252
85°	72	70	71	69	69	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1159.3	1159.3	1159.3	1159.3	1159.3
2.5°	1160.4	1159.3	1154.0	1159.3	1160.4
5°	1156.1	1155.1	1149.8	1155.1	1156.1
7.5°	1148.7	1148.7	1143.4	1148.7	1148.7
10°	1139.2	1138.1	1132.8	1138.1	1139.2
12.5°	1125.4	1125.4	1120.1	1125.4	1126.5
15°	1109.5	1109.5	1105.3	1110.6	1110.6
17.5°	1091.5	1092.6	1087.3	1093.6	1093.6
20°	1071.4	1070.3	1067.1	1072.4	1073.5
22.5°	1047.0	1048.1	1044.9	1051.2	1052.3
25°	1022.6	1022.6	1020.5	1026.9	1025.8
27.5°	996.1	996.1	992.9	998.2	999.3
30°	964.3	965.4	964.3	969.6	968.6
32.5°	934.7	935.7	935.7	937.8	938.9
35°	900.8	901.8	901.8	906.1	906.1
37.5°	866.8	866.8	867.9	871.1	871.1
40°	830.8	831.9	831.9	835.1	836.1
42.5°	795.8	793.7	794.8	798.0	798.0
45°	755.6	756.6	757.7	758.8	758.8
47.5°	715.3	717.4	718.5	719.5	718.5
50°	675.0	677.2	677.2	676.1	676.1
52.5°	631.6	636.9	635.8	635.8	637.9
55°	590.3	592.4	593.4	593.4	592.4
57.5°	548.9	551.0	548.9	550.0	547.9
60°	504.4	505.5	504.4	504.4	504.4
62.5°	461.0	462.0	459.9	459.9	459.9
65°	416.5	416.5	416.5	414.3	418.6
67.5°	369.8	372.0	372.0	373.0	368.8
70°	326.4	327.5	326.4	325.3	323.2
72.5°	282.9	284.0	285.1	280.8	279.8
75°	238.4	238.4	237.4	236.3	236.3
77.5°	195.0	195.0	195.0	192.9	192.9
80°	152.6	153.7	151.5	151.5	150.5
82.5°	111.3	111.3	111.3	110.2	108.1
85°	72.1	69.9	71.0	68.9	68.9
87.5°	32.9	32.9	32.9	30.7	35.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)