

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: P291567

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291567
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3153.0 lumens
Efficiency: N/A
Efficacy: 86.5 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

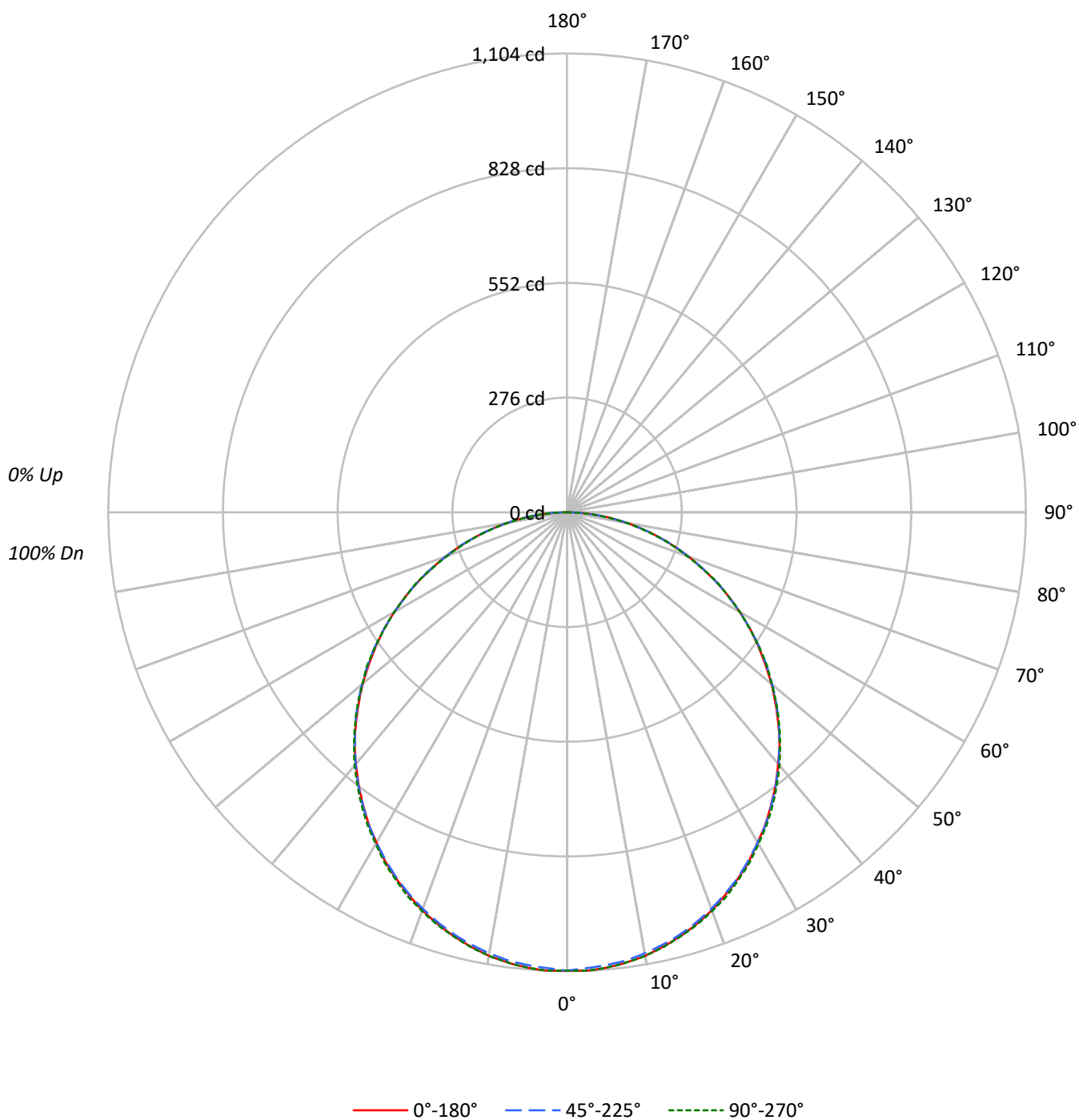
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2967	2967	2967
5°	2970	2954	2970
10°	2961	2944	2961
15°	2940	2929	2943
20°	2918	2907	2924
25°	2888	2882	2897
30°	2850	2850	2862
35°	2814	2818	2831
40°	2776	2779	2794
45°	2735	2743	2747
50°	2688	2696	2692
55°	2634	2648	2643
60°	2582	2582	2582
65°	2522	2522	2535
70°	2442	2442	2419
75°	2358	2348	2337
80°	2249	2233	2218
85°	2115	2084	2022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	3.3
10°-20°	297.6	9.4
20°-30°	448.4	14.2
30°-40°	537.4	17.0
40°-50°	555.7	17.6
50°-60°	503.9	16.0
60°-70°	391.6	12.4
70°-80°	239.2	7.6
80°-90°	74.8	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°	850.3	27.0
0°-40°	1387.7	44.0
0°-60°	2447.4	77.6
0°-90°	3153.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3153.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1103	1103	1103	1103	1103	
5°	1100	1099	1094	1099	1100	104
15°	1055	1055	1051	1056	1056	298
25°	973	973	971	977	976	448
35°	857	858	858	862	862	536
45°	719	720	721	722	722	554
55°	561	563	564	564	563	502
65°	396	396	396	394	398	391
75°	227	227	226	225	225	240
85°	68	66	68	66	66	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1102.7	1102.7	1102.7	1102.7	1102.7
2.5°	1103.7	1102.7	1097.6	1102.7	1103.7
5°	1099.6	1098.6	1093.6	1098.6	1099.6
7.5°	1092.6	1092.6	1087.5	1092.6	1092.6
10°	1083.5	1082.5	1077.5	1082.5	1083.5
12.5°	1070.4	1070.4	1065.4	1070.4	1071.4
15°	1055.3	1055.3	1051.3	1056.3	1056.3
17.5°	1038.2	1039.2	1034.1	1040.2	1040.2
20°	1019.0	1018.0	1015.0	1020.0	1021.0
22.5°	995.8	996.8	993.8	999.9	1000.9
25°	972.6	972.6	970.6	976.7	975.7
27.5°	947.4	947.4	944.4	949.5	950.5
30°	917.2	918.2	917.2	922.2	921.2
32.5°	889.0	890.0	890.0	892.0	893.0
35°	856.7	857.7	857.7	861.8	861.8
37.5°	824.5	824.5	825.5	828.5	828.5
40°	790.2	791.2	791.2	794.2	795.3
42.5°	756.9	754.9	755.9	759.0	759.0
45°	718.6	719.7	720.7	721.7	721.7
47.5°	680.3	682.4	683.4	684.4	683.4
50°	642.0	644.1	644.1	643.1	643.1
52.5°	600.7	605.8	604.8	604.8	606.8
55°	561.4	563.4	564.4	564.4	563.4
57.5°	522.1	524.1	522.1	523.1	521.1
60°	479.8	480.8	479.8	479.8	479.8
62.5°	438.4	439.5	437.4	437.4	437.4
65°	396.1	396.1	396.1	394.1	398.1
67.5°	351.8	353.8	353.8	354.8	350.8
70°	310.4	311.4	310.4	309.4	307.4
72.5°	269.1	270.1	271.1	267.1	266.1
75°	226.8	226.8	225.8	224.8	224.8
77.5°	185.5	185.5	185.5	183.4	183.4
80°	145.1	146.1	144.1	144.1	143.1
82.5°	105.8	105.8	105.8	104.8	102.8
85°	68.5	66.5	67.5	65.5	65.5
87.5°	31.2	31.2	31.2	29.2	33.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)