

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: P291732

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291732
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-L92765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3167.0 lumens
Efficiency: N/A
Efficacy: 82.9 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

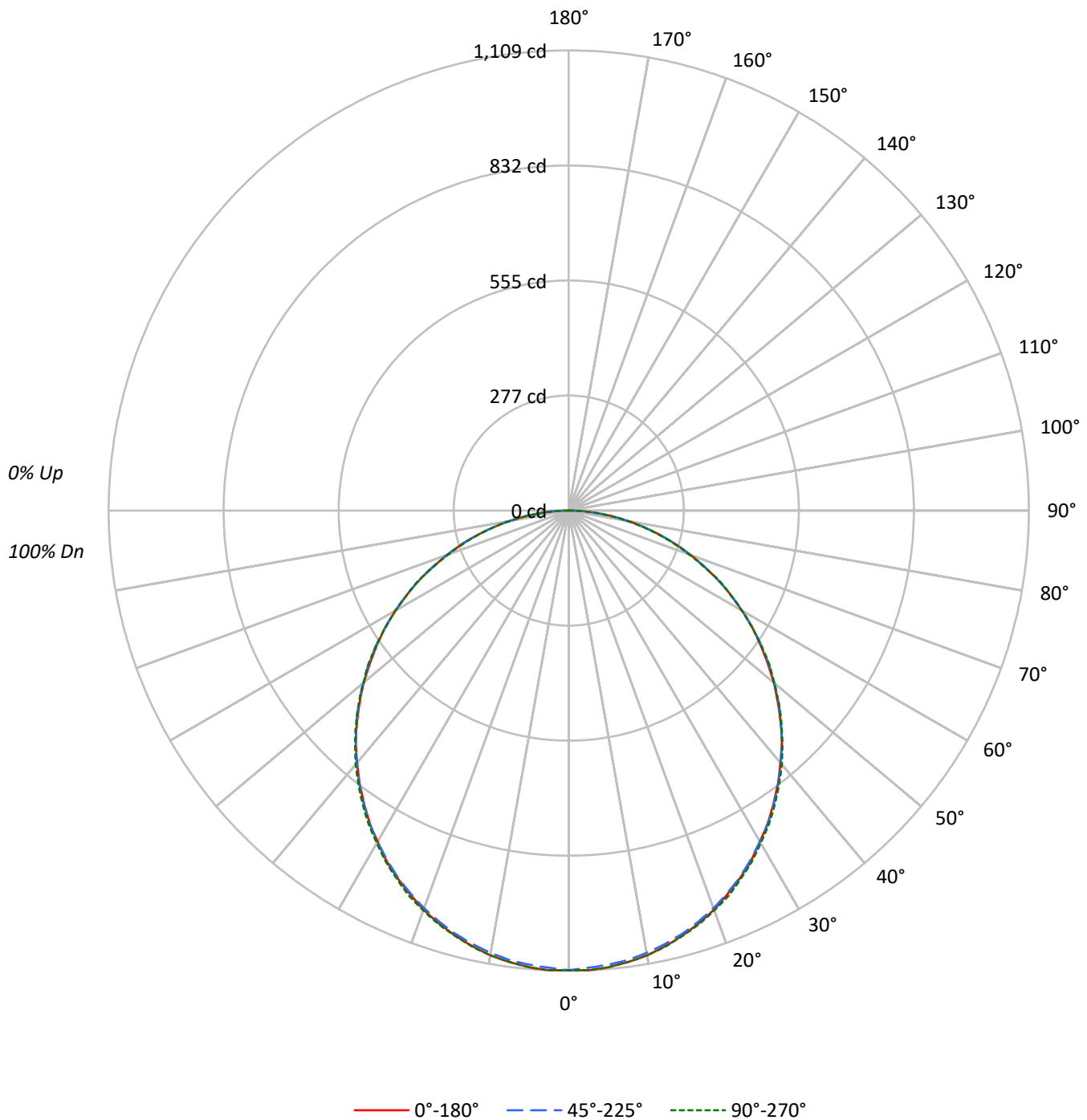
Input Watts (W): 38.223
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2981	2981	2981
5°	2984	2967	2984
10°	2974	2957	2974
15°	2953	2942	2956
20°	2931	2920	2937
25°	2901	2895	2910
30°	2863	2863	2875
35°	2827	2830	2844
40°	2788	2792	2806
45°	2747	2755	2759
50°	2700	2708	2704
55°	2646	2660	2655
60°	2594	2594	2594
65°	2534	2534	2546
70°	2453	2453	2430
75°	2368	2358	2348
80°	2259	2244	2228
85°	2124	2093	2032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.7	3.3
10°-20°	298.9	9.4
20°-30°	450.4	14.2
30°-40°	539.8	17.0
40°-50°	558.2	17.6
50°-60°	506.1	16.0
60°-70°	393.3	12.4
70°-80°	240.3	7.6
80°-90°	75.2	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°	854.1	27.0
0°-40°	1393.9	44.0
0°-60°	2458.2	77.6
0°-90°	3167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3167.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1108	1108	1108	1108	1108	
5°	1104	1104	1098	1104	1104	105
15°	1060	1060	1056	1061	1061	299
25°	977	977	975	981	980	450
35°	860	862	862	866	866	539
45°	722	723	724	725	725	557
55°	564	566	567	567	566	504
65°	398	398	398	396	400	393
75°	228	228	227	226	226	241
85°	69	67	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°	1107.6	1107.6	1107.6	1107.6	1107.6
2.5°	1108.6	1107.6	1102.5	1107.6	1108.6
5°	1104.5	1103.5	1098.5	1103.5	1104.5
7.5°	1097.4	1097.4	1092.4	1097.4	1097.4
10°	1088.3	1087.3	1082.3	1087.3	1088.3
12.5°	1075.2	1075.2	1070.1	1075.2	1076.2
15°	1060.0	1060.0	1055.9	1061.0	1061.0
17.5°	1042.8	1043.8	1038.7	1044.8	1044.8
20°	1023.5	1022.5	1019.5	1024.5	1025.6
22.5°	1000.2	1001.3	998.2	1004.3	1005.3
25°	977.0	977.0	974.9	981.0	980.0
27.5°	951.7	951.7	948.6	953.7	954.7
30°	921.3	922.3	921.3	926.3	925.3
32.5°	892.9	893.9	893.9	896.0	897.0
35°	860.5	861.6	861.6	865.6	865.6
37.5°	828.1	828.1	829.2	832.2	832.2
40°	793.7	794.7	794.7	797.8	798.8
42.5°	760.3	758.3	759.3	762.3	762.3
45°	721.8	722.9	723.9	724.9	724.9
47.5°	683.4	685.4	686.4	687.4	686.4
50°	644.9	646.9	646.9	645.9	645.9
52.5°	603.4	608.5	607.4	607.4	609.5
55°	563.9	565.9	566.9	566.9	565.9
57.5°	524.4	526.4	524.4	525.4	523.4
60°	481.9	482.9	481.9	481.9	481.9
62.5°	440.4	441.4	439.4	439.4	439.4
65°	397.9	397.9	397.9	395.8	399.9
67.5°	353.3	355.4	355.4	356.4	352.3
70°	311.8	312.8	311.8	310.8	308.8
72.5°	270.3	271.3	272.3	268.3	267.3
75°	227.8	227.8	226.8	225.8	225.8
77.5°	186.3	186.3	186.3	184.3	184.3
80°	145.8	146.8	144.8	144.8	143.8
82.5°	106.3	106.3	106.3	105.3	103.3
85°	68.8	66.8	67.8	65.8	65.8
87.5°	31.4	31.4	31.4	29.4	33.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)