

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: P291627

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291627
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-L82765-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: 3150.0 lumens
Efficiency: N/A
Efficacy: 86.8 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

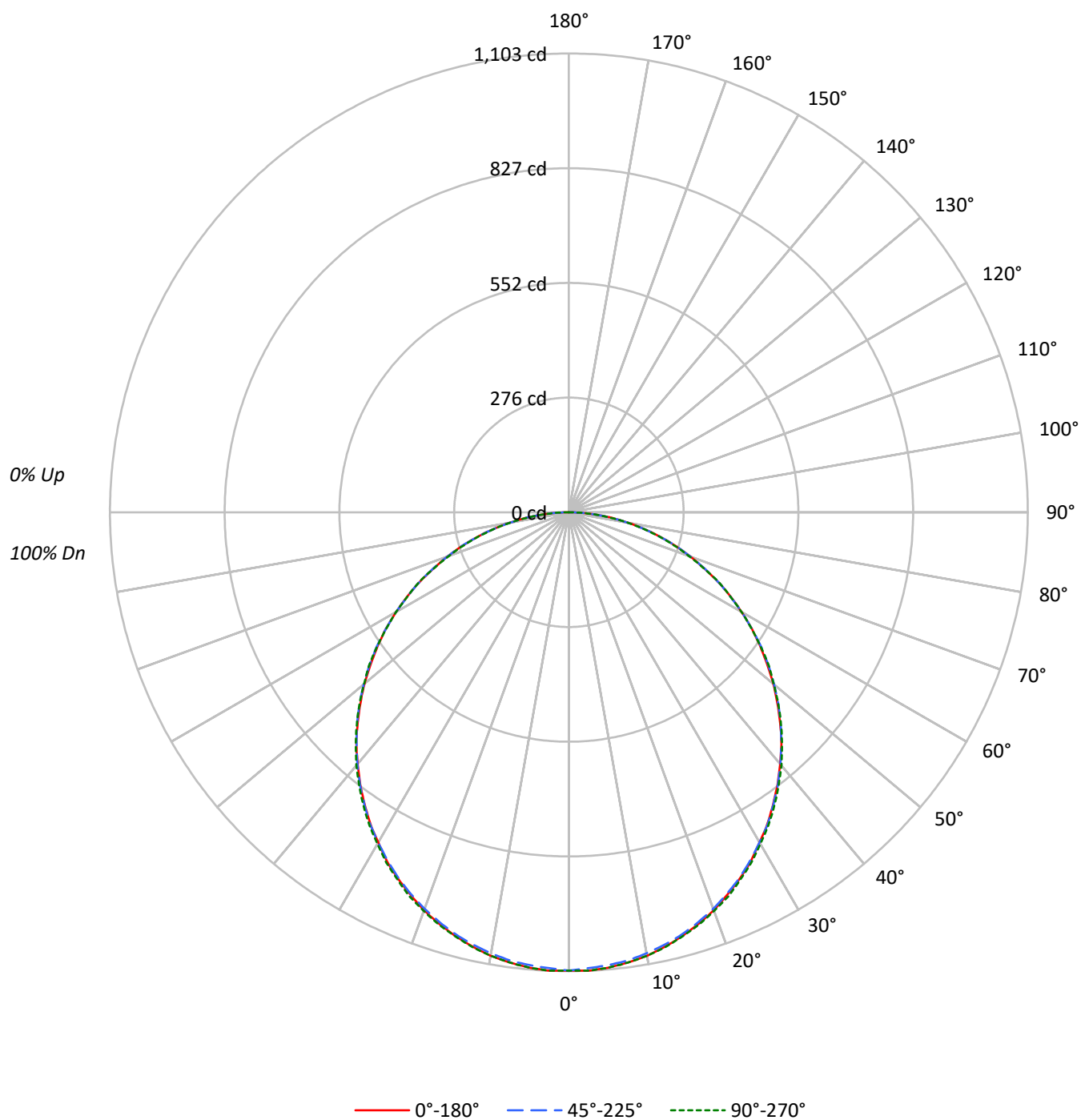
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2964	2964	2964
5°	2968	2951	2968
10°	2958	2941	2958
15°	2937	2926	2940
20°	2915	2904	2921
25°	2885	2879	2894
30°	2847	2847	2860
35°	2812	2815	2828
40°	2773	2777	2791
45°	2732	2740	2744
50°	2685	2694	2689
55°	2632	2646	2641
60°	2580	2580	2580
65°	2520	2520	2533
70°	2440	2440	2416
75°	2356	2346	2335
80°	2247	2232	2216
85°	2115	2084	2022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	3.3
10°-20°	297.3	9.4
20°-30°	448.0	14.2
30°-40°	536.9	17.0
40°-50°	555.2	17.6
50°-60°	503.4	16.0
60°-70°	391.2	12.4
70°-80°	239.0	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°	849.5	27.0
0°-40°	1386.4	44.0
0°-60°	2445.0	77.6
0°-90°	3150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3150.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1099	1098	1093	1098	1099	104
15°	1054	1054	1050	1055	1055	298
25°	972	972	970	976	975	448
35°	856	857	857	861	861	536
45°	718	719	720	721	721	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°	1101.6	1101.6	1101.6	1101.6	1101.6
2.5°	1102.6	1101.6	1096.6	1101.6	1102.6
5°	1098.6	1097.6	1092.6	1097.6	1098.6
7.5°	1091.5	1091.5	1086.5	1091.5	1091.5
10°	1082.5	1081.5	1076.4	1081.5	1082.5
12.5°	1069.4	1069.4	1064.4	1069.4	1070.4
15°	1054.3	1054.3	1050.3	1055.3	1055.3
17.5°	1037.2	1038.2	1033.1	1039.2	1039.2
20°	1018.0	1017.0	1014.0	1019.0	1020.1
22.5°	994.9	995.9	992.9	998.9	999.9
25°	971.7	971.7	969.7	975.7	974.7
27.5°	946.5	946.5	943.5	948.6	949.6
30°	916.3	917.3	916.3	921.4	920.4
32.5°	888.1	889.1	889.1	891.2	892.2
35°	855.9	856.9	856.9	861.0	861.0
37.5°	823.7	823.7	824.7	827.7	827.7
40°	789.5	790.5	790.5	793.5	794.5
42.5°	756.2	754.2	755.2	758.2	758.2
45°	718.0	719.0	720.0	721.0	721.0
47.5°	679.7	681.7	682.7	683.7	682.7
50°	641.4	643.4	643.4	642.4	642.4
52.5°	600.2	605.2	604.2	604.2	606.2
55°	560.9	562.9	563.9	563.9	562.9
57.5°	521.6	523.6	521.6	522.6	520.6
60°	479.3	480.3	479.3	479.3	479.3
62.5°	438.0	439.0	437.0	437.0	437.0
65°	395.7	395.7	395.7	393.7	397.8
67.5°	351.4	353.4	353.4	354.5	350.4
70°	310.1	311.2	310.1	309.1	307.1
72.5°	268.9	269.9	270.9	266.8	265.8
75°	226.6	226.6	225.6	224.6	224.6
77.5°	185.3	185.3	185.3	183.3	183.3
80°	145.0	146.0	144.0	144.0	143.0
82.5°	105.7	105.7	105.7	104.7	102.7
85°	68.5	66.5	67.5	65.5	65.5
87.5°	31.2	31.2	31.2	29.2	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)