

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: P291633

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291633
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3479.0 lumens
Efficiency: N/A
Efficacy: 92.6 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

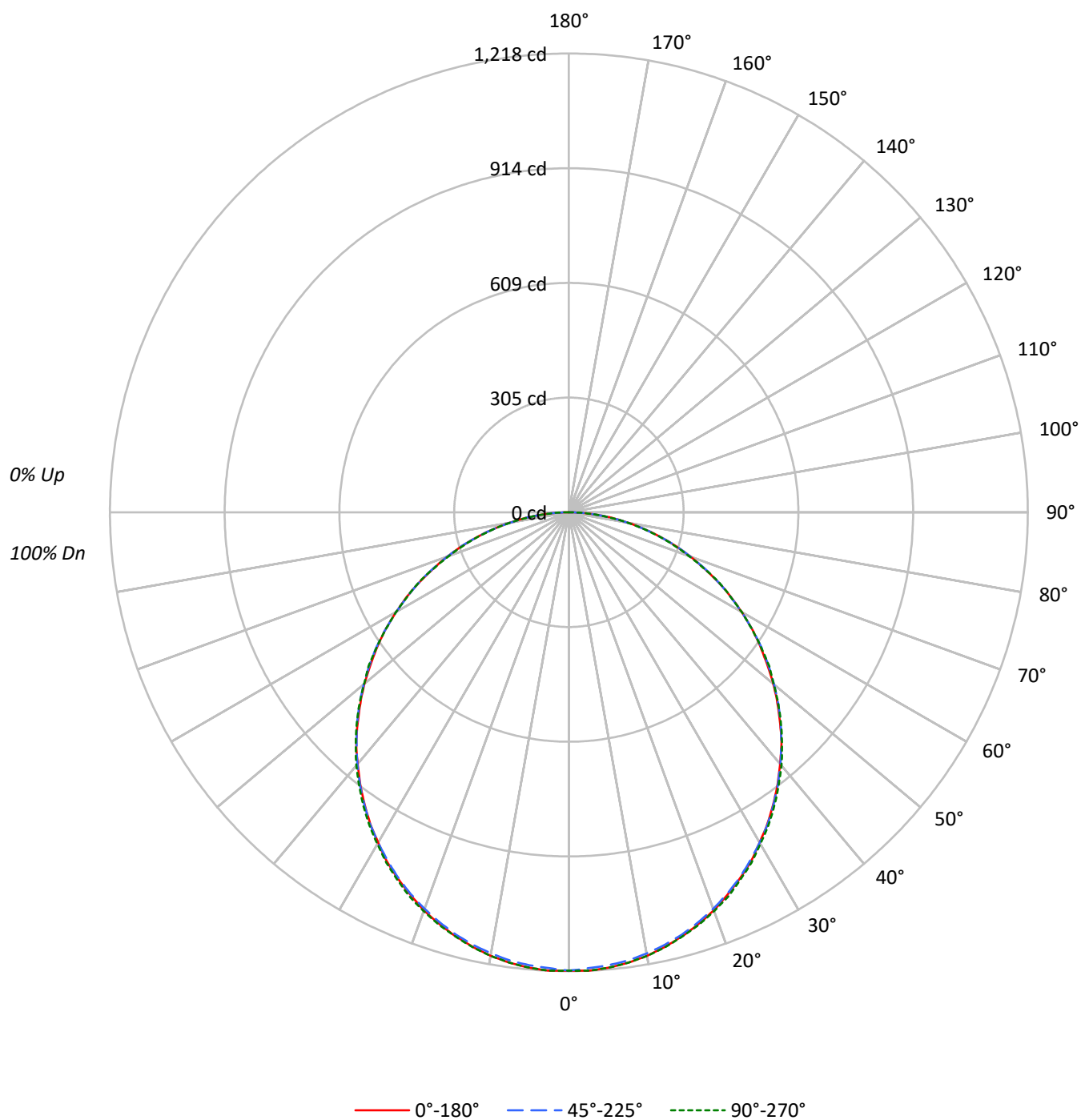
Input Watts (W): 37.572
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3274	3274	3274
5°	3277	3260	3277
10°	3267	3249	3267
15°	3244	3232	3247
20°	3220	3207	3226
25°	3187	3180	3196
30°	3145	3145	3159
35°	3105	3109	3124
40°	3063	3067	3083
45°	3018	3026	3030
50°	2966	2975	2970
55°	2906	2922	2917
60°	2849	2849	2849
65°	2783	2783	2797
70°	2695	2695	2669
75°	2601	2590	2578
80°	2481	2464	2447
85°	2334	2300	2232



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.1	3.3
10°-20°	328.4	9.4
20°-30°	494.8	14.2
30°-40°	593.0	17.0
40°-50°	613.2	17.6
50°-60°	556.0	16.0
60°-70°	432.1	12.4
70°-80°	263.9	7.6
80°-90°	82.6	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°	938.2	27.0
0°-40°	1531.2	44.0
0°-60°	2700.4	77.6
0°-90°	3479.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3479.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1217	1217	1217	1217	1217	
5°	1213	1212	1207	1212	1213	115
15°	1164	1164	1160	1166	1166	329
25°	1073	1073	1071	1078	1076	494
35°	945	946	946	951	951	592
45°	793	794	795	796	796	612
55°	620	622	623	623	622	554
65°	437	437	437	435	439	432
75°	250	250	249	248	248	265
85°	76	73	74	72	72	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1216.7	1216.7	1216.7	1216.7	1216.7
2.5°	1217.8	1216.7	1211.1	1216.7	1217.8
5°	1213.3	1212.2	1206.7	1212.2	1213.3
7.5°	1205.6	1205.6	1200.0	1205.6	1205.6
10°	1195.5	1194.4	1188.9	1194.4	1195.5
12.5°	1181.1	1181.1	1175.5	1181.1	1182.2
15°	1164.4	1164.4	1160.0	1165.5	1165.5
17.5°	1145.5	1146.6	1141.1	1147.7	1147.7
20°	1124.4	1123.3	1119.9	1125.5	1126.6
22.5°	1098.8	1099.9	1096.6	1103.2	1104.4
25°	1073.2	1073.2	1071.0	1077.7	1076.5
27.5°	1045.4	1045.4	1042.1	1047.6	1048.7
30°	1012.0	1013.2	1012.0	1017.6	1016.5
32.5°	980.9	982.0	982.0	984.2	985.4
35°	945.3	946.4	946.4	950.9	950.9
37.5°	909.7	909.7	910.8	914.2	914.2
40°	871.9	873.0	873.0	876.4	877.5
42.5°	835.2	833.0	834.1	837.4	837.4
45°	793.0	794.1	795.2	796.3	796.3
47.5°	750.7	752.9	754.0	755.1	754.0
50°	708.4	710.7	710.7	709.5	709.5
52.5°	662.8	668.4	667.3	667.3	669.5
55°	619.5	621.7	622.8	622.8	621.7
57.5°	576.1	578.3	576.1	577.2	575.0
60°	529.4	530.5	529.4	529.4	529.4
62.5°	483.8	484.9	482.7	482.7	482.7
65°	437.1	437.1	437.1	434.8	439.3
67.5°	388.1	390.4	390.4	391.5	387.0
70°	342.5	343.6	342.5	341.4	339.2
72.5°	296.9	298.1	299.2	294.7	293.6
75°	250.2	250.2	249.1	248.0	248.0
77.5°	204.6	204.6	204.6	202.4	202.4
80°	160.1	161.3	159.0	159.0	157.9
82.5°	116.8	116.8	116.8	115.7	113.4
85°	75.6	73.4	74.5	72.3	72.3
87.5°	34.5	34.5	34.5	32.3	36.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)