

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: P291728

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291728
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3023.0 lumens
Efficiency: N/A
Efficacy: 81.3 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

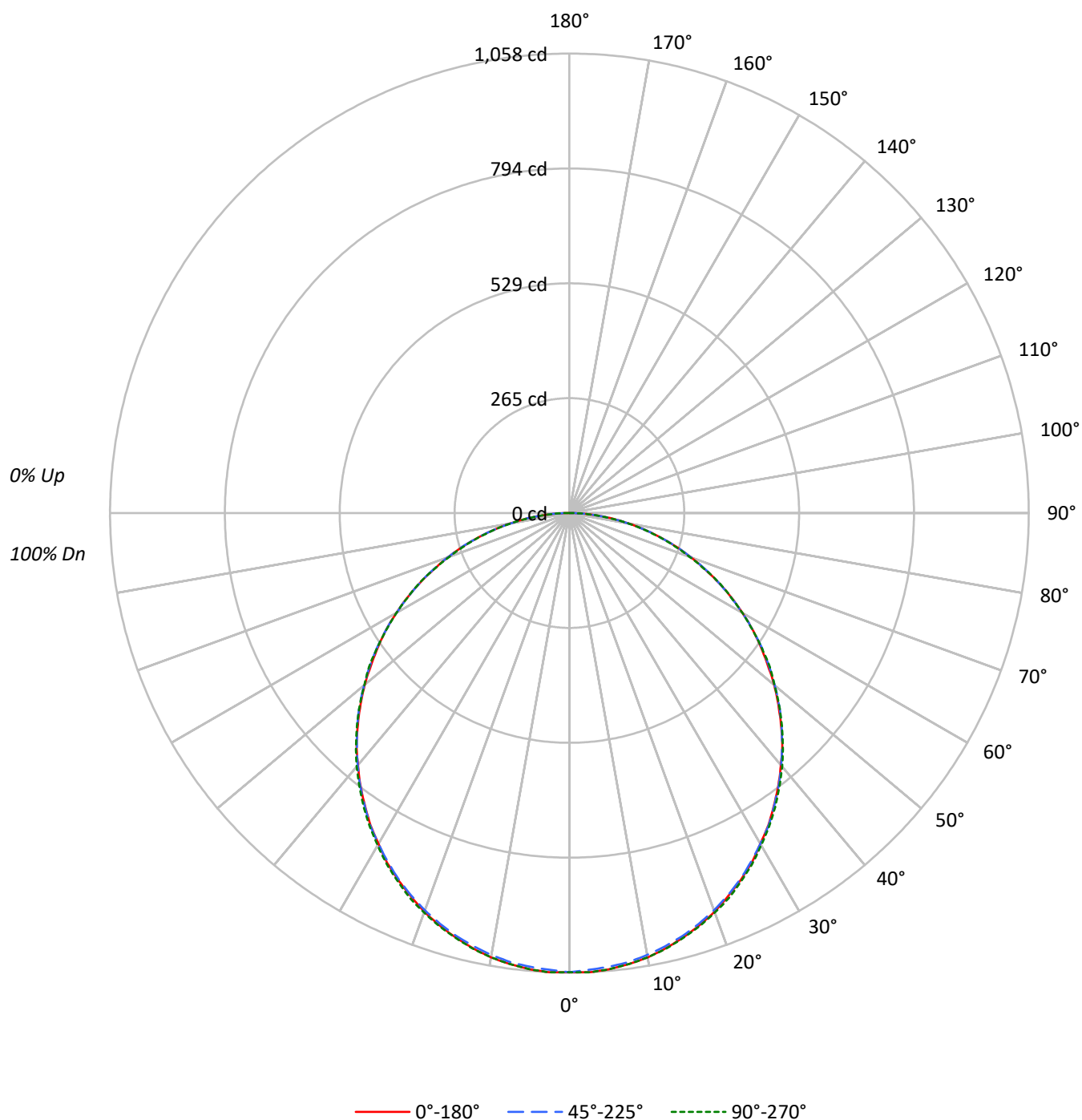
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2845	2845	2845
5°	2848	2832	2848
10°	2839	2823	2839
15°	2819	2808	2822
20°	2798	2787	2803
25°	2769	2763	2777
30°	2733	2733	2745
35°	2698	2702	2714
40°	2661	2665	2679
45°	2622	2630	2633
50°	2577	2585	2581
55°	2525	2539	2534
60°	2476	2476	2476
65°	2418	2418	2430
70°	2341	2341	2319
75°	2260	2251	2241
80°	2157	2142	2126
85°	2029	1998	1939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.0	3.3
10°-20°	285.3	9.4
20°-30°	430.0	14.2
30°-40°	515.3	17.0
40°-50°	532.8	17.6
50°-60°	483.1	16.0
60°-70°	375.5	12.4
70°-80°	229.3	7.6
80°-90°	71.8	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°	815.2	27.0
0°-40°	1330.5	44.0
0°-60°	2346.5	77.6
0°-90°	3023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3023.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1054	1053	1048	1053	1054	100
15°	1012	1012	1008	1013	1013	286
25°	932	932	931	936	935	430
35°	821	822	822	826	826	514
45°	689	690	691	692	692	532
55°	538	540	541	541	540	482
65°	380	380	380	378	382	375
75°	217	217	216	216	216	230
85°	66	64	65	63	63	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1057.2	1057.2	1057.2	1057.2	1057.2
2.5°	1058.2	1057.2	1052.4	1057.2	1058.2
5°	1054.3	1053.3	1048.5	1053.3	1054.3
7.5°	1047.5	1047.5	1042.7	1047.5	1047.5
10°	1038.8	1037.9	1033.0	1037.9	1038.8
12.5°	1026.3	1026.3	1021.4	1026.3	1027.2
15°	1011.8	1011.8	1007.9	1012.8	1012.8
17.5°	995.4	996.3	991.5	997.3	997.3
20°	977.0	976.0	973.1	978.0	978.9
22.5°	954.8	955.7	952.8	958.6	959.6
25°	932.5	932.5	930.6	936.4	935.4
27.5°	908.4	908.4	905.5	910.3	911.3
30°	879.4	880.4	879.4	884.2	883.3
32.5°	852.3	853.3	853.3	855.2	856.2
35°	821.4	822.4	822.4	826.2	826.2
37.5°	790.5	790.5	791.5	794.4	794.4
40°	757.6	758.6	758.6	761.5	762.5
42.5°	725.7	723.8	724.8	727.7	727.7
45°	689.0	690.0	691.0	691.9	691.9
47.5°	652.3	654.2	655.2	656.2	655.2
50°	615.6	617.5	617.5	616.5	616.5
52.5°	576.0	580.8	579.8	579.8	581.8
55°	538.3	540.2	541.2	541.2	540.2
57.5°	500.6	502.5	500.6	501.5	499.6
60°	460.0	461.0	460.0	460.0	460.0
62.5°	420.4	421.3	419.4	419.4	419.4
65°	379.8	379.8	379.8	377.8	381.7
67.5°	337.3	339.2	339.2	340.2	336.3
70°	297.6	298.6	297.6	296.7	294.7
72.5°	258.0	259.0	260.0	256.1	255.1
75°	217.4	217.4	216.5	215.5	215.5
77.5°	177.8	177.8	177.8	175.9	175.9
80°	139.2	140.1	138.2	138.2	137.2
82.5°	101.5	101.5	101.5	100.5	98.6
85°	65.7	63.8	64.7	62.8	62.8
87.5°	30.0	30.0	30.0	28.0	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)