

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: P291563

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291563
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-LD5-40-FGW080-UNV-L83050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3128.0 lumens
Efficiency: N/A
Efficacy: 92.9 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

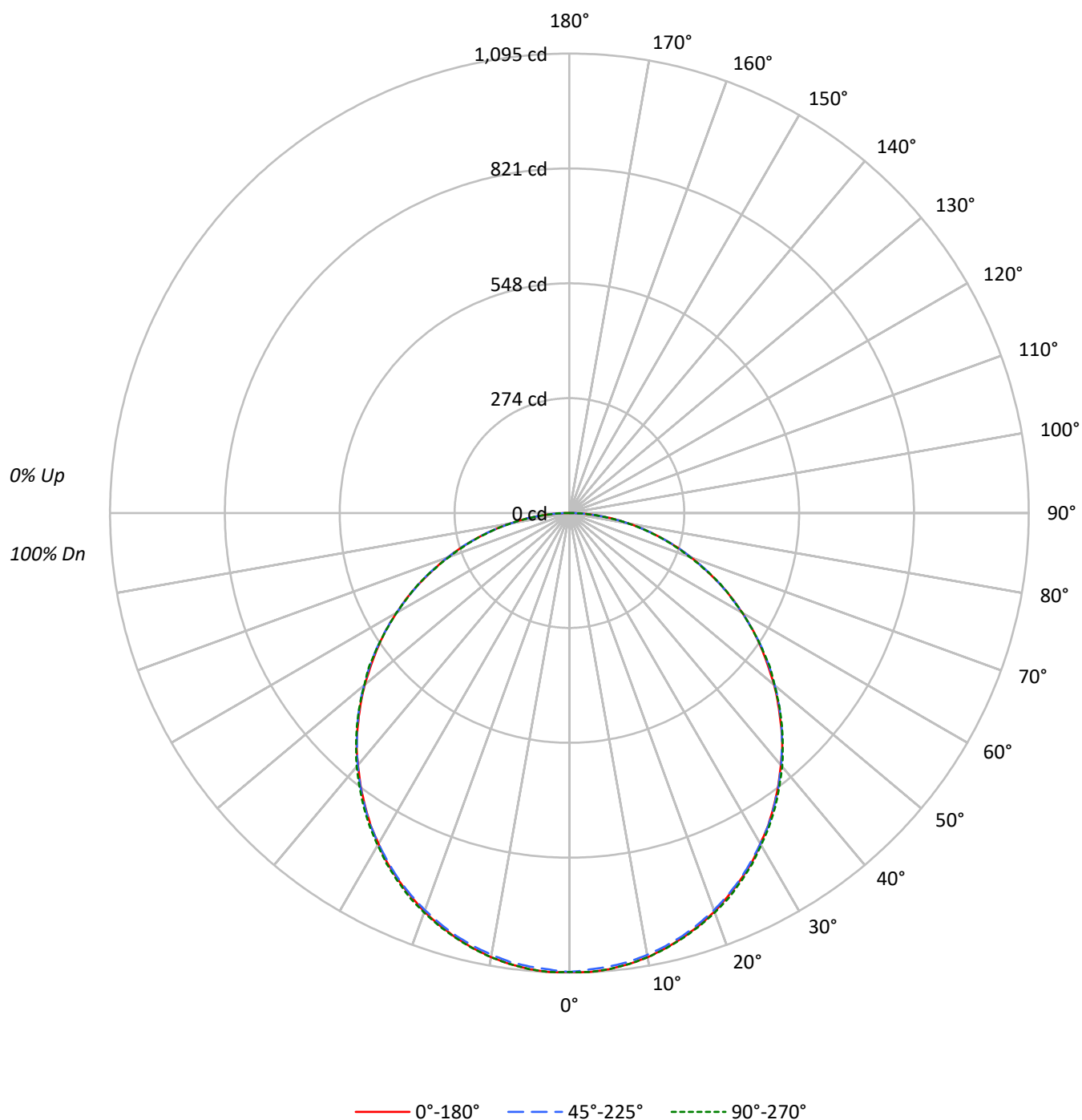
Input Watts (W): 33.666
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2944	2944	2944
5°	2947	2931	2947
10°	2937	2921	2937
15°	2917	2905	2919
20°	2895	2883	2901
25°	2865	2859	2874
30°	2827	2827	2840
35°	2792	2795	2808
40°	2754	2757	2771
45°	2713	2721	2725
50°	2667	2675	2671
55°	2613	2627	2623
60°	2562	2562	2562
65°	2502	2502	2515
70°	2423	2423	2400
75°	2339	2329	2319
80°	2232	2216	2201
85°	2100	2069	2007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	3.3
10°-20°	295.2	9.4
20°-30°	444.9	14.2
30°-40°	533.1	17.0
40°-50°	551.3	17.6
50°-60°	499.9	16.0
60°-70°	388.5	12.4
70°-80°	237.3	7.6
80°-90°	74.3	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°	843.5	27.0
0°-40°	1376.7	44.0
0°-60°	2427.9	77.6
0°-90°	3128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3128.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1094	1094	1094	1094	1094	
5°	1091	1090	1085	1090	1091	104
15°	1047	1047	1043	1048	1048	295
25°	965	965	963	969	968	445
35°	850	851	851	855	855	532
45°	713	714	715	716	716	550
55°	557	559	560	560	559	498
65°	393	393	393	391	395	388
75°	225	225	224	223	223	238
85°	68	66	67	65	65	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1093.9	1093.9	1093.9	1093.9	1093.9
2.5°	1094.9	1093.9	1088.9	1093.9	1094.9
5°	1090.9	1089.9	1084.9	1089.9	1090.9
7.5°	1083.9	1083.9	1078.9	1083.9	1083.9
10°	1074.9	1073.9	1068.9	1073.9	1074.9
12.5°	1061.9	1061.9	1056.9	1061.9	1062.9
15°	1046.9	1046.9	1042.9	1047.9	1047.9
17.5°	1029.9	1030.9	1025.9	1031.9	1031.9
20°	1010.9	1009.9	1006.9	1011.9	1012.9
22.5°	987.9	988.9	985.9	991.9	992.9
25°	964.9	964.9	962.9	968.9	967.9
27.5°	939.9	939.9	936.9	941.9	942.9
30°	909.9	910.9	909.9	914.9	913.9
32.5°	881.9	882.9	882.9	884.9	885.9
35°	849.9	850.9	850.9	854.9	854.9
37.5°	817.9	817.9	818.9	821.9	821.9
40°	783.9	784.9	784.9	787.9	788.9
42.5°	750.9	748.9	749.9	752.9	752.9
45°	713.0	714.0	715.0	716.0	716.0
47.5°	675.0	677.0	678.0	679.0	678.0
50°	637.0	639.0	639.0	638.0	638.0
52.5°	596.0	601.0	600.0	600.0	602.0
55°	557.0	559.0	560.0	560.0	559.0
57.5°	518.0	520.0	518.0	519.0	517.0
60°	476.0	477.0	476.0	476.0	476.0
62.5°	435.0	436.0	434.0	434.0	434.0
65°	393.0	393.0	393.0	391.0	395.0
67.5°	349.0	351.0	351.0	352.0	348.0
70°	308.0	309.0	308.0	307.0	305.0
72.5°	267.0	268.0	269.0	265.0	264.0
75°	225.0	225.0	224.0	223.0	223.0
77.5°	184.0	184.0	184.0	182.0	182.0
80°	144.0	145.0	143.0	143.0	142.0
82.5°	105.0	105.0	105.0	104.0	102.0
85°	68.0	66.0	67.0	65.0	65.0
87.5°	31.0	31.0	31.0	29.0	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)