

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: P291622

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291622
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-L82765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3221.0 lumens
Efficiency: N/A
Efficacy: 93.6 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

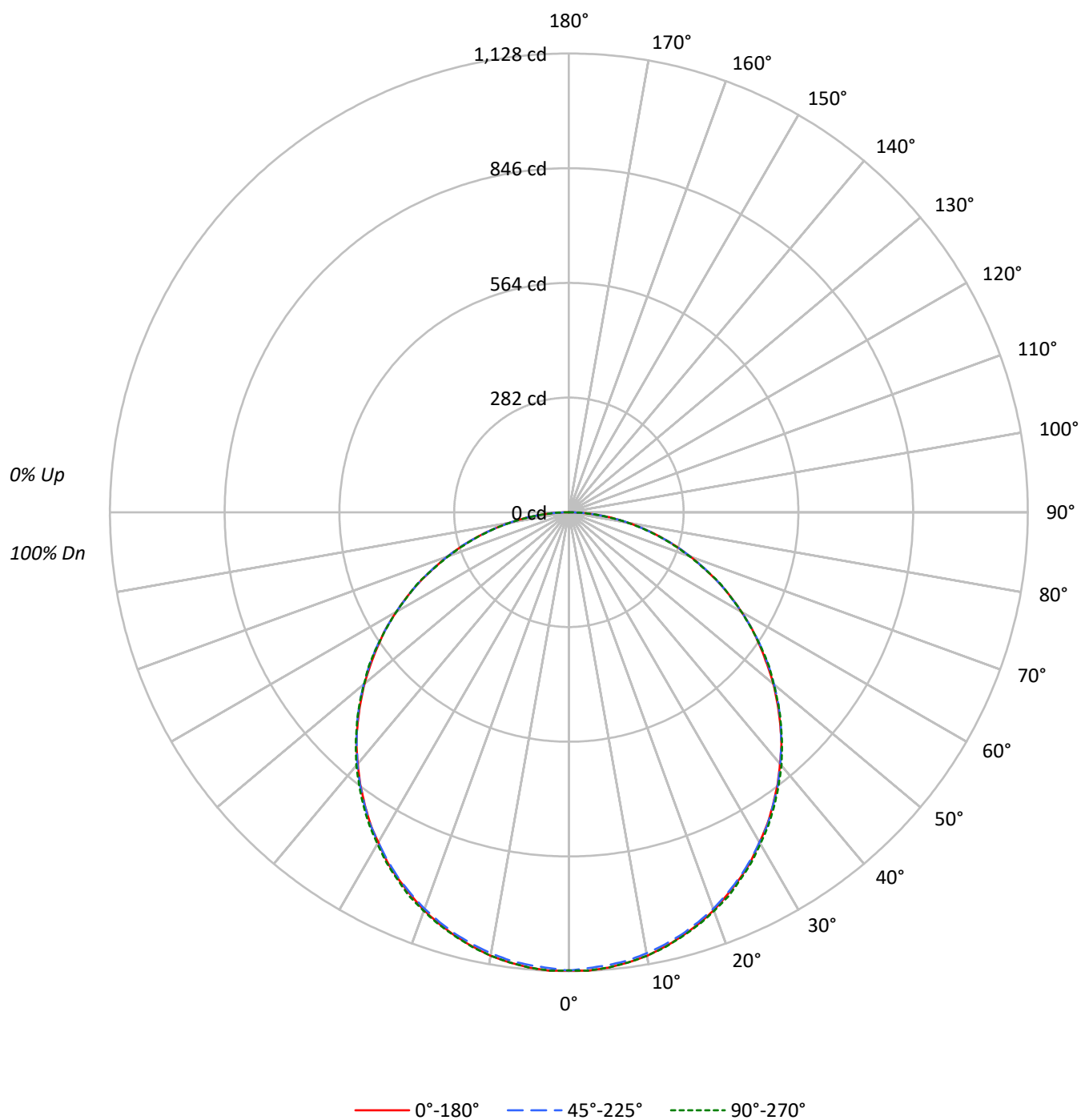
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	103	99	95	106	101	97	93	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		42
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		37
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3031	3031	3031
5°	3035	3018	3035
10°	3025	3008	3025
15°	3003	2992	3006
20°	2981	2969	2987
25°	2950	2944	2959
30°	2912	2912	2924
35°	2875	2878	2892
40°	2836	2839	2854
45°	2794	2802	2806
50°	2746	2755	2750
55°	2691	2705	2700
60°	2638	2638	2638
65°	2577	2577	2590
70°	2495	2495	2471
75°	2409	2398	2387
80°	2298	2281	2266
85°	2161	2130	2066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	3.3
10°-20°	304.0	9.4
20°-30°	458.1	14.2
30°-40°	549.0	17.0
40°-50°	567.7	17.6
50°-60°	514.8	16.0
60°-70°	400.0	12.4
70°-80°	244.3	7.6
80°-90°	76.5	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°	868.7	27.0
0°-40°	1417.7	44.0
0°-60°	2500.1	77.6
0°-90°	3221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3221.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1123	1122	1117	1122	1123	107
15°	1078	1078	1074	1079	1079	304
25°	994	994	992	998	997	458
35°	875	876	876	880	880	548
45°	734	735	736	737	737	566
55°	574	576	577	577	576	513
65°	405	405	405	403	407	400
75°	232	232	231	230	230	245
85°	70	68	69	67	67	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1126.4	1126.4	1126.4	1126.4	1126.4
2.5°	1127.5	1126.4	1121.3	1126.4	1127.5
5°	1123.4	1122.3	1117.2	1122.3	1123.4
7.5°	1116.2	1116.2	1111.0	1116.2	1116.2
10°	1106.9	1105.9	1100.7	1105.9	1106.9
12.5°	1093.5	1093.5	1088.4	1093.5	1094.5
15°	1078.1	1078.1	1073.9	1079.1	1079.1
17.5°	1060.5	1061.6	1056.4	1062.6	1062.6
20°	1041.0	1040.0	1036.9	1042.0	1043.0
22.5°	1017.3	1018.3	1015.2	1021.4	1022.5
25°	993.6	993.6	991.6	997.7	996.7
27.5°	967.9	967.9	964.8	969.9	971.0
30°	937.0	938.0	937.0	942.1	941.1
32.5°	908.2	909.2	909.2	911.2	912.3
35°	875.2	876.2	876.2	880.4	880.4
37.5°	842.3	842.3	843.3	846.4	846.4
40°	807.3	808.3	808.3	811.4	812.4
42.5°	773.3	771.2	772.2	775.3	775.3
45°	734.1	735.2	736.2	737.2	737.2
47.5°	695.0	697.1	698.1	699.1	698.1
50°	655.9	658.0	658.0	656.9	656.9
52.5°	613.7	618.8	617.8	617.8	619.9
55°	573.5	575.6	576.6	576.6	575.6
57.5°	533.4	535.4	533.4	534.4	532.3
60°	490.1	491.1	490.1	490.1	490.1
62.5°	447.9	448.9	446.9	446.9	446.9
65°	404.7	404.7	404.7	402.6	406.7
67.5°	359.4	361.4	361.4	362.4	358.3
70°	317.1	318.2	317.1	316.1	314.0
72.5°	274.9	275.9	277.0	272.9	271.8
75°	231.7	231.7	230.6	229.6	229.6
77.5°	189.5	189.5	189.5	187.4	187.4
80°	148.3	149.3	147.2	147.2	146.2
82.5°	108.1	108.1	108.1	107.1	105.0
85°	70.0	68.0	69.0	66.9	66.9
87.5°	31.9	31.9	31.9	29.9	34.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)