

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: P291621

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291621
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3178.0 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

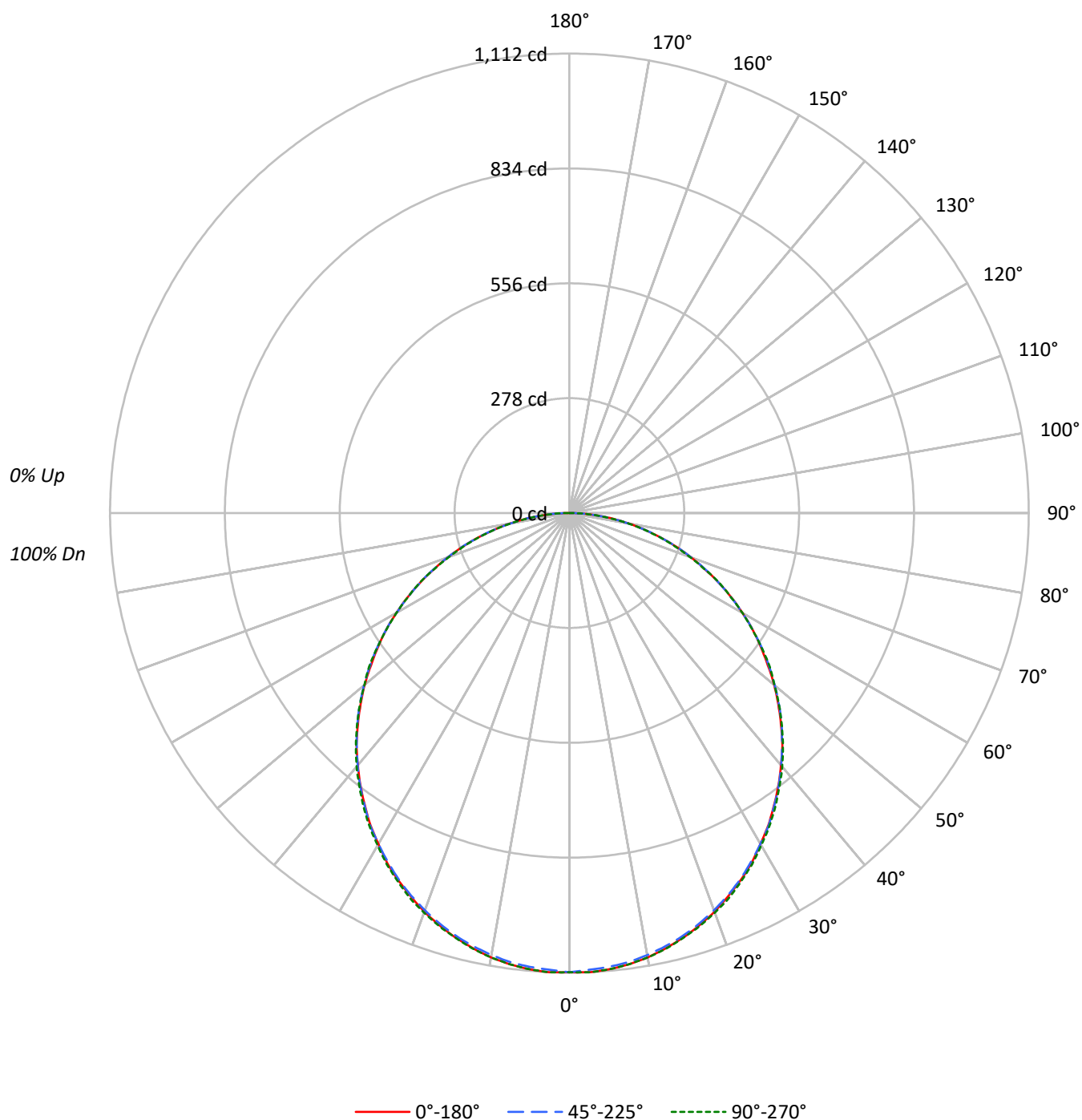
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291621

CATALOG NUMBER: 14GR-LD5-40-FGW080-UNV-L82765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P291621

CATALOG NUMBER: 14GR-LD5-40-FGW080-UNV-L82765-W2A1-U-4500K

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°	2991	2991	2991
5°	2994	2978	2994
10°	2984	2967	2984
15°	2963	2952	2966
20°	2941	2930	2947
25°	2911	2905	2920
30°	2873	2873	2885
35°	2837	2840	2853
40°	2798	2801	2816
45°	2756	2764	2768
50°	2709	2718	2714
55°	2655	2669	2664
60°	2603	2603	2603
65°	2543	2543	2555
70°	2462	2462	2438
75°	2377	2366	2355
80°	2267	2252	2236
85°	2133	2103	2038



TEST NUMBER: P291621

CATALOG NUMBER: 14GR-LD5-40-FGW080-UNV-L82765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	3.3
10°-20°	299.9	9.4
20°-30°	452.0	14.2
30°-40°	541.7	17.0
40°-50°	560.1	17.6
50°-60°	507.9	16.0
60°-70°	394.7	12.4
70°-80°	241.1	7.6
80°-90°	75.5	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°	857.1	27.0
0°-40°	1398.7	44.0
0°-60°	2466.8	77.6
0°-90°	3178.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3178.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1111	1111	1111	1111	1111	
5°	1108	1107	1102	1107	1108	105
15°	1064	1064	1060	1065	1065	300
25°	980	980	978	984	983	452
35°	864	864	864	869	869	540
45°	724	725	726	727	727	559
55°	566	568	569	569	568	506
65°	399	399	399	397	401	394
75°	229	229	228	226	226	242
85°	69	67	68	66	66	76
90°	0	0	0	0	0	



TEST NUMBER: P291621

CATALOG NUMBER: 14GR-LD5-40-FGW080-UNV-L82765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1111.4	1111.4	1111.4	1111.4	1111.4
2.5°	1112.4	1111.4	1106.3	1111.4	1112.4
5°	1108.4	1107.3	1102.3	1107.3	1108.4
7.5°	1101.3	1101.3	1096.2	1101.3	1101.3
10°	1092.1	1091.1	1086.0	1091.1	1092.1
12.5°	1078.9	1078.9	1073.8	1078.9	1079.9
15°	1063.7	1063.7	1059.6	1064.7	1064.7
17.5°	1046.4	1047.4	1042.3	1048.4	1048.4
20°	1027.1	1026.1	1023.0	1028.1	1029.1
22.5°	1003.7	1004.7	1001.7	1007.8	1008.8
25°	980.4	980.4	978.3	984.4	983.4
27.5°	955.0	955.0	951.9	957.0	958.0
30°	924.5	925.5	924.5	929.6	928.5
32.5°	896.0	897.1	897.1	899.1	900.1
35°	863.5	864.5	864.5	868.6	868.6
37.5°	831.0	831.0	832.0	835.1	835.1
40°	796.5	797.5	797.5	800.5	801.6
42.5°	763.0	760.9	761.9	765.0	765.0
45°	724.3	725.4	726.4	727.4	727.4
47.5°	685.7	687.8	688.8	689.8	688.8
50°	647.1	649.2	649.2	648.2	648.2
52.5°	605.5	610.6	609.5	609.5	611.6
55°	565.9	567.9	568.9	568.9	567.9
57.5°	526.2	528.3	526.2	527.3	525.2
60°	483.6	484.6	483.6	483.6	483.6
62.5°	441.9	442.9	440.9	440.9	440.9
65°	399.3	399.3	399.3	397.2	401.3
67.5°	354.6	356.6	356.6	357.6	353.5
70°	312.9	313.9	312.9	311.9	309.9
72.5°	271.2	272.3	273.3	269.2	268.2
75°	228.6	228.6	227.6	226.5	226.5
77.5°	186.9	186.9	186.9	184.9	184.9
80°	146.3	147.3	145.3	145.3	144.3
82.5°	106.7	106.7	106.7	105.7	103.6
85°	69.1	67.1	68.1	66.0	66.0
87.5°	31.5	31.5	31.5	29.5	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)