

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: P291562

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291562
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2956.0 lumens
Efficiency: N/A
Efficacy: 88.0 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

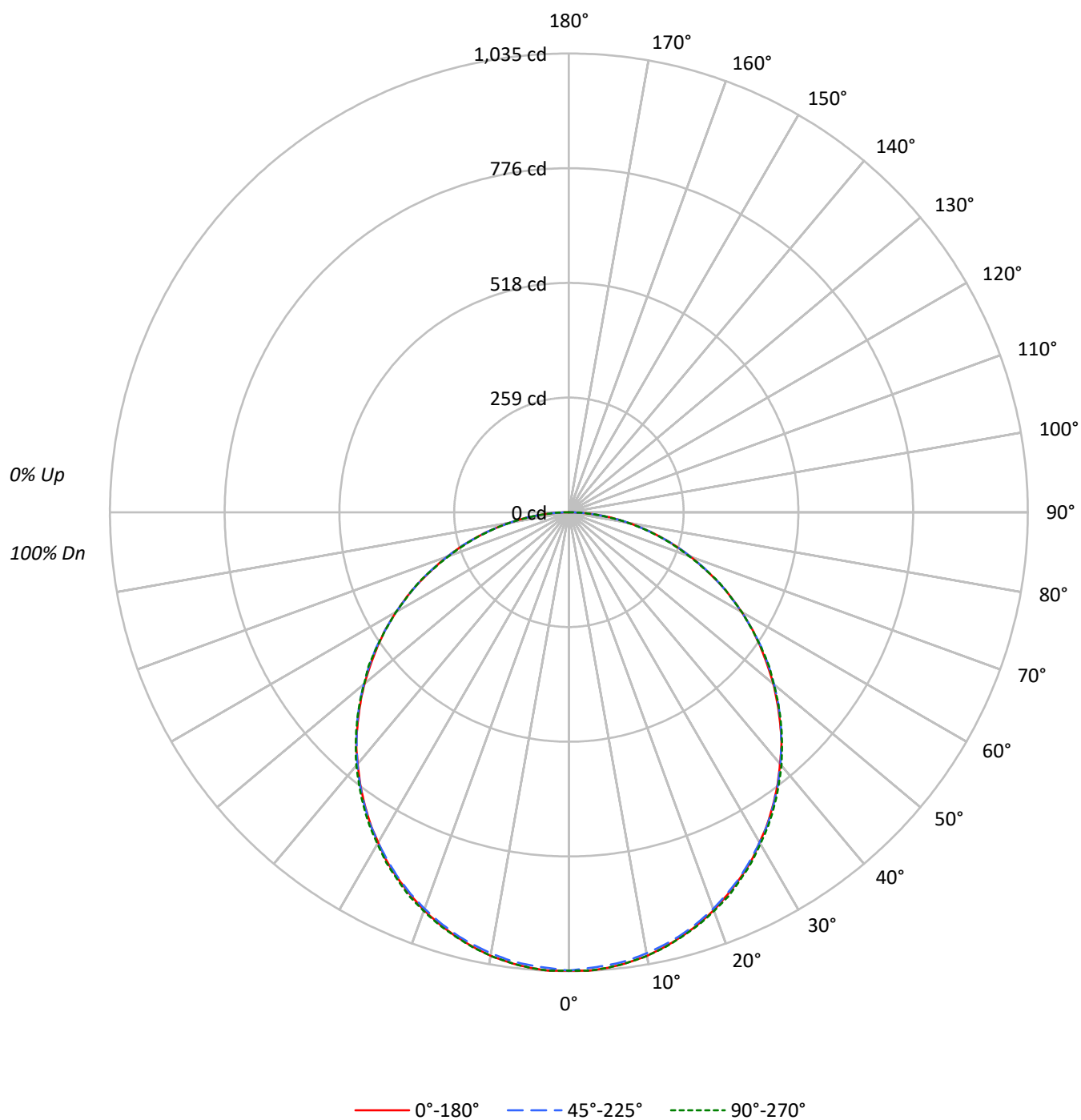
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2782	2782	2782
5°	2785	2770	2785
10°	2776	2760	2776
15°	2756	2746	2759
20°	2736	2725	2741
25°	2708	2702	2716
30°	2672	2672	2684
35°	2639	2642	2654
40°	2602	2606	2619
45°	2564	2571	2575
50°	2520	2528	2524
55°	2469	2483	2478
60°	2421	2421	2421
65°	2365	2365	2377
70°	2290	2290	2268
75°	2210	2201	2191
80°	2109	2094	2080
85°	1985	1954	1896



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.8	3.3
10°-20°	279.0	9.4
20°-30°	420.4	14.2
30°-40°	503.8	17.0
40°-50°	521.0	17.6
50°-60°	472.4	16.0
60°-70°	367.1	12.4
70°-80°	224.2	7.6
80°-90°	70.2	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°	797.2	27.0
0°-40°	1301.0	44.0
0°-60°	2294.4	77.6
0°-90°	2956.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2956.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1034	1034	1034	1034	1034	
5°	1031	1030	1025	1030	1031	98
15°	989	989	986	990	990	279
25°	912	912	910	916	915	420
35°	803	804	804	808	808	503
45°	674	675	676	677	677	520
55°	526	528	529	529	528	471
65°	371	371	371	370	373	367
75°	213	213	212	211	211	225
85°	64	62	63	61	61	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1033.8	1033.8	1033.8	1033.8	1033.8
2.5°	1034.7	1033.8	1029.0	1033.8	1034.7
5°	1030.9	1030.0	1025.3	1030.0	1030.9
7.5°	1024.3	1024.3	1019.6	1024.3	1024.3
10°	1015.8	1014.9	1010.1	1014.9	1015.8
12.5°	1003.5	1003.5	998.8	1003.5	1004.5
15°	989.4	989.4	985.6	990.3	990.3
17.5°	973.3	974.2	969.5	975.2	975.2
20°	955.3	954.4	951.6	956.3	957.2
22.5°	933.6	934.6	931.7	937.4	938.3
25°	911.9	911.9	910.0	915.7	914.7
27.5°	888.3	888.3	885.4	890.1	891.1
30°	859.9	860.8	859.9	864.6	863.7
32.5°	833.4	834.4	834.4	836.3	837.2
35°	803.2	804.2	804.2	807.9	807.9
37.5°	773.0	773.0	773.9	776.7	776.7
40°	740.8	741.8	741.8	744.6	745.6
42.5°	709.7	707.8	708.7	711.5	711.5
45°	673.7	674.7	675.6	676.6	676.6
47.5°	637.8	639.7	640.7	641.6	640.7
50°	601.9	603.8	603.8	602.9	602.9
52.5°	563.2	567.9	567.0	567.0	568.9
55°	526.3	528.2	529.2	529.2	528.2
57.5°	489.5	491.4	489.5	490.4	488.5
60°	449.8	450.7	449.8	449.8	449.8
62.5°	411.1	412.0	410.1	410.1	410.1
65°	371.4	371.4	371.4	369.5	373.3
67.5°	329.8	331.7	331.7	332.6	328.8
70°	291.0	292.0	291.0	290.1	288.2
72.5°	252.3	253.2	254.2	250.4	249.5
75°	212.6	212.6	211.7	210.7	210.7
77.5°	173.9	173.9	173.9	172.0	172.0
80°	136.1	137.0	135.1	135.1	134.2
82.5°	99.2	99.2	99.2	98.3	96.4
85°	64.3	62.4	63.3	61.4	61.4
87.5°	29.3	29.3	29.3	27.4	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)