

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: P291553

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291553
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-LD5-32-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: 2501.0 lumens
Efficiency: N/A
Efficacy: 97.4 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

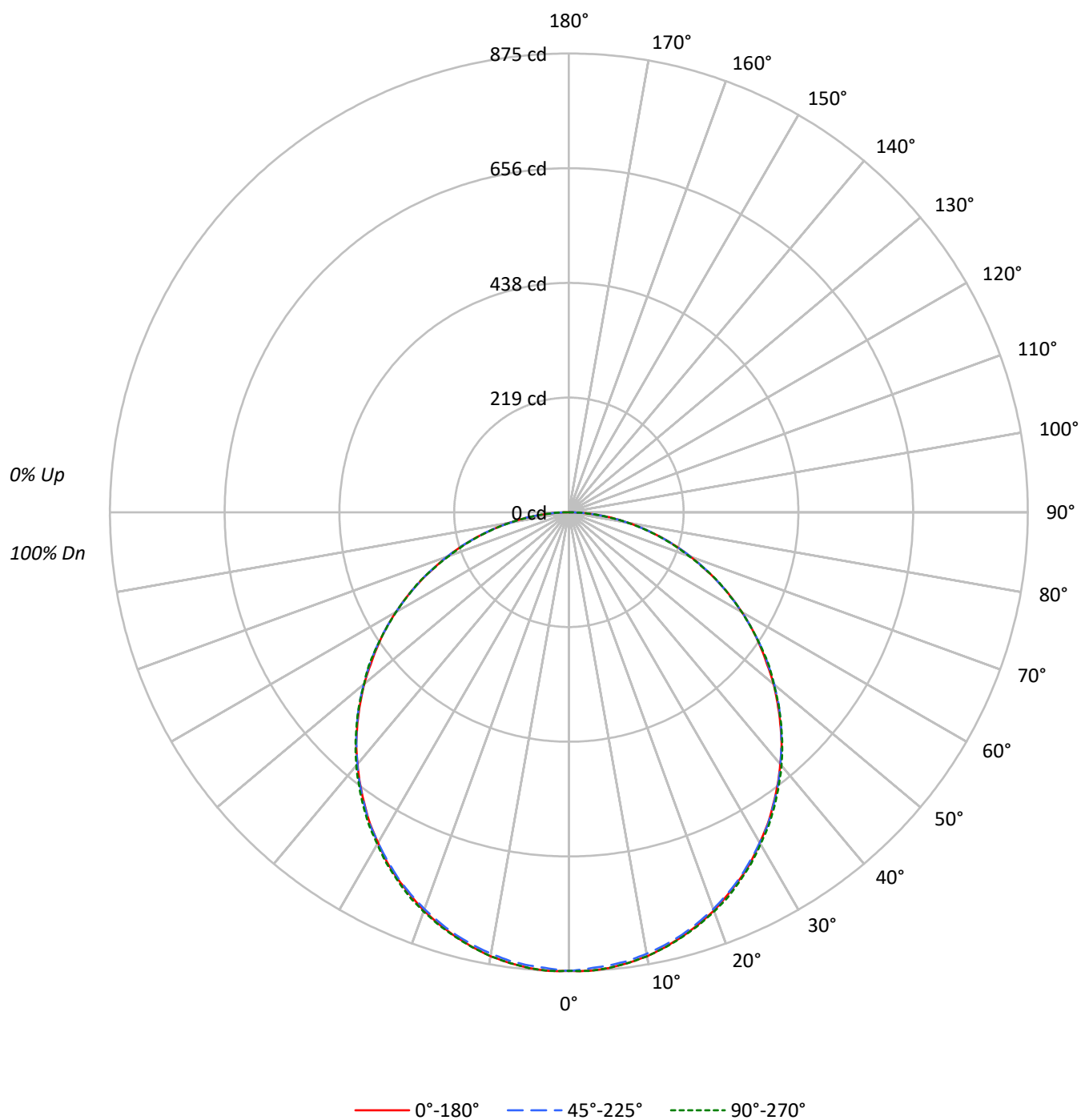
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2354	2354	2354
5°	2356	2343	2356
10°	2349	2335	2349
15°	2332	2323	2334
20°	2315	2306	2319
25°	2291	2286	2298
30°	2261	2261	2270
35°	2233	2235	2246
40°	2202	2205	2216
45°	2169	2175	2178
50°	2132	2139	2135
55°	2089	2100	2097
60°	2048	2048	2048
65°	2001	2001	2011
70°	1937	1937	1918
75°	1870	1862	1854
80°	1784	1771	1759
85°	1680	1655	1606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	3.3
10°-20°	236.1	9.4
20°-30°	355.7	14.2
30°-40°	426.3	17.0
40°-50°	440.8	17.6
50°-60°	399.7	16.0
60°-70°	310.6	12.4
70°-80°	189.7	7.6
80°-90°	59.4	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°	674.5	27.0
0°-40°	1100.8	44.0
0°-60°	1941.3	77.6
0°-90°	2501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2501.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	875	875	875	875	875	
5°	872	872	868	872	872	83
15°	837	837	834	838	838	236
25°	772	772	770	775	774	355
35°	680	680	680	684	684	425
45°	570	571	572	572	572	440
55°	445	447	448	448	447	398
65°	314	314	314	313	316	310
75°	180	180	179	178	178	190
85°	54	53	54	52	52	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	874.6	874.6	874.6	874.6	874.6
2.5°	875.4	874.6	870.7	874.6	875.4
5°	872.3	871.5	867.5	871.5	872.3
7.5°	866.7	866.7	862.7	866.7	866.7
10°	859.5	858.7	854.7	858.7	859.5
12.5°	849.1	849.1	845.1	849.1	849.9
15°	837.1	837.1	833.9	837.9	837.9
17.5°	823.5	824.3	820.3	825.1	825.1
20°	808.3	807.5	805.1	809.1	809.9
22.5°	789.9	790.7	788.3	793.1	793.9
25°	771.5	771.5	769.9	774.7	773.9
27.5°	751.5	751.5	749.1	753.1	753.9
30°	727.5	728.3	727.5	731.5	730.7
32.5°	705.2	706.0	706.0	707.6	708.4
35°	679.6	680.4	680.4	683.6	683.6
37.5°	654.0	654.0	654.8	657.2	657.2
40°	626.8	627.6	627.6	630.0	630.8
42.5°	600.4	598.8	599.6	602.0	602.0
45°	570.0	570.8	571.6	572.4	572.4
47.5°	539.7	541.3	542.1	542.9	542.1
50°	509.3	510.9	510.9	510.1	510.1
52.5°	476.5	480.5	479.7	479.7	481.3
55°	445.3	446.9	447.7	447.7	446.9
57.5°	414.1	415.7	414.1	414.9	413.3
60°	380.6	381.4	380.6	380.6	380.6
62.5°	347.8	348.6	347.0	347.0	347.0
65°	314.2	314.2	314.2	312.6	315.8
67.5°	279.0	280.6	280.6	281.4	278.2
70°	246.2	247.0	246.2	245.4	243.8
72.5°	213.5	214.3	215.1	211.9	211.1
75°	179.9	179.9	179.1	178.3	178.3
77.5°	147.1	147.1	147.1	145.5	145.5
80°	115.1	115.9	114.3	114.3	113.5
82.5°	83.9	83.9	83.9	83.1	81.5
85°	54.4	52.8	53.6	52.0	52.0
87.5°	24.8	24.8	24.8	23.2	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)