

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: P291602

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291602
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-L82765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2496.0 lumens
Efficiency: N/A
Efficacy: 96.2 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

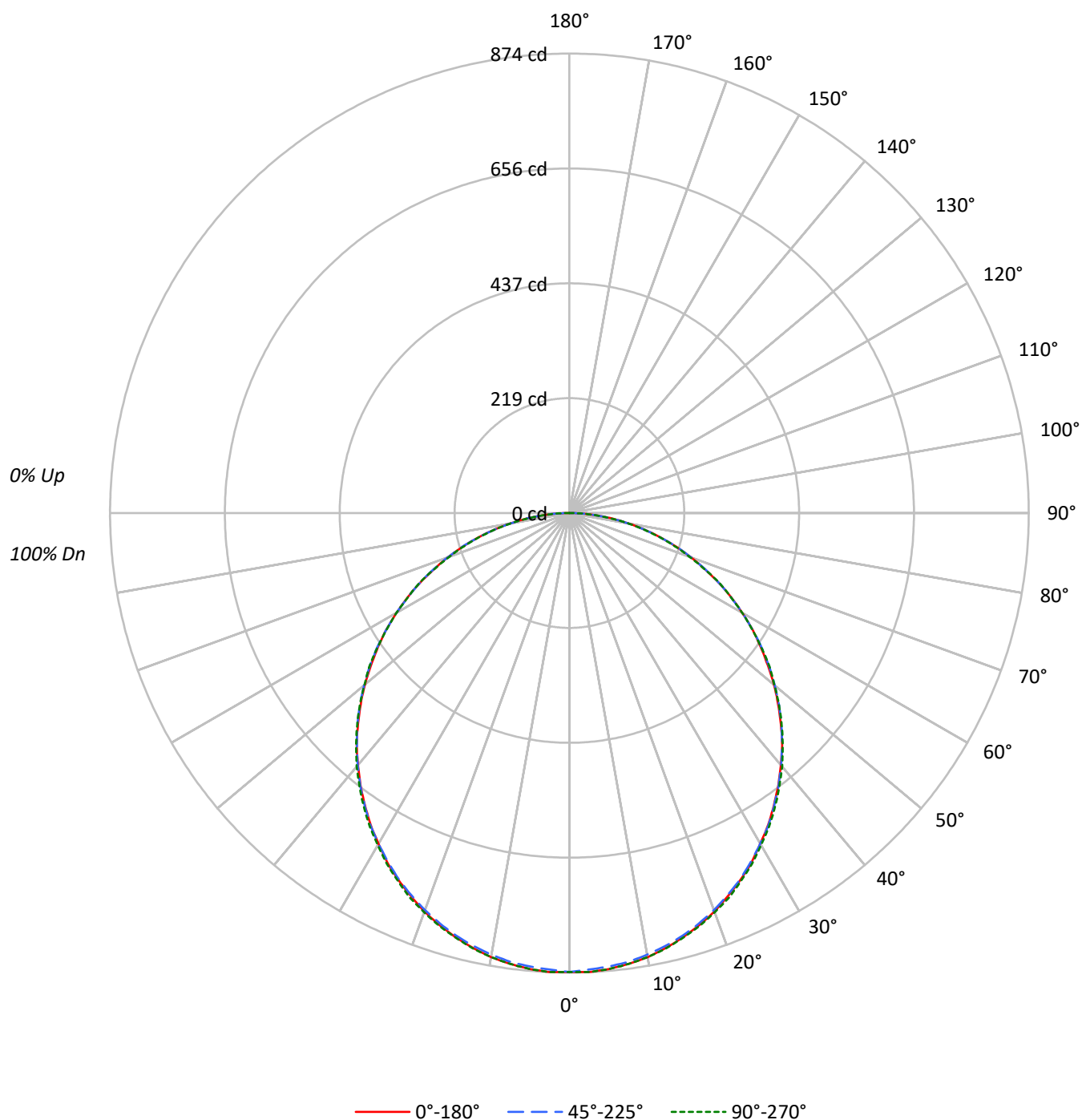
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	2349	2349	2349
5°	2351	2338	2351
10°	2344	2331	2344
15°	2327	2318	2330
20°	2310	2301	2315
25°	2286	2282	2293
30°	2256	2256	2266
35°	2228	2231	2241
40°	2198	2200	2211
45°	2165	2171	2174
50°	2128	2135	2131
55°	2085	2096	2092
60°	2044	2044	2044
65°	1997	1997	2007
70°	1934	1934	1915
75°	1866	1858	1850
80°	1781	1768	1756
85°	1677	1652	1602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	3.3
10°-20°	235.6	9.4
20°-30°	355.0	14.2
30°-40°	425.4	17.0
40°-50°	439.9	17.6
50°-60°	398.9	16.0
60°-70°	310.0	12.4
70°-80°	189.3	7.6
80°-90°	59.3	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°	673.1	27.0
0°-40°	1098.6	44.0
0°-60°	1937.4	77.6
0°-90°	2496.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2496.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	870	870	866	870	870	83
15°	835	835	832	836	836	236
25°	770	770	768	773	772	355
35°	678	679	679	682	682	424
45°	569	570	570	571	571	439
55°	444	446	447	447	446	398
65°	314	314	314	312	315	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°	872.9	872.9	872.9	872.9	872.9
2.5°	873.7	872.9	868.9	872.9	873.7
5°	870.5	869.7	865.7	869.7	870.5
7.5°	864.9	864.9	860.9	864.9	864.9
10°	857.7	856.9	853.0	856.9	857.7
12.5°	847.4	847.4	843.4	847.4	848.2
15°	835.4	835.4	832.2	836.2	836.2
17.5°	821.8	822.6	818.6	823.4	823.4
20°	806.7	805.9	803.5	807.5	808.3
22.5°	788.3	789.1	786.7	791.5	792.3
25°	770.0	770.0	768.4	773.2	772.4
27.5°	750.0	750.0	747.6	751.6	752.4
30°	726.1	726.9	726.1	730.1	729.3
32.5°	703.7	704.5	704.5	706.1	706.9
35°	678.2	679.0	679.0	682.2	682.2
37.5°	652.7	652.7	653.5	655.9	655.9
40°	625.6	626.4	626.4	628.7	629.5
42.5°	599.2	597.6	598.4	600.8	600.8
45°	568.9	569.7	570.5	571.3	571.3
47.5°	538.6	540.2	541.0	541.8	541.0
50°	508.3	509.9	509.9	509.1	509.1
52.5°	475.5	479.5	478.7	478.7	480.3
55°	444.4	446.0	446.8	446.8	446.0
57.5°	413.3	414.9	413.3	414.1	412.5
60°	379.8	380.6	379.8	379.8	379.8
62.5°	347.1	347.9	346.3	346.3	346.3
65°	313.6	313.6	313.6	312.0	315.2
67.5°	278.5	280.1	280.1	280.9	277.7
70°	245.8	246.6	245.8	245.0	243.4
72.5°	213.0	213.8	214.6	211.4	210.6
75°	179.5	179.5	178.7	177.9	177.9
77.5°	146.8	146.8	146.8	145.2	145.2
80°	114.9	115.7	114.1	114.1	113.3
82.5°	83.8	83.8	83.8	83.0	81.4
85°	54.3	52.7	53.5	51.9	51.9
87.5°	24.7	24.7	24.7	23.1	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)