

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: P291711

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291711
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-LD5-36-FGW080-UNV-L92765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2584.0 lumens
Efficiency: N/A
Efficacy: 86.3 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

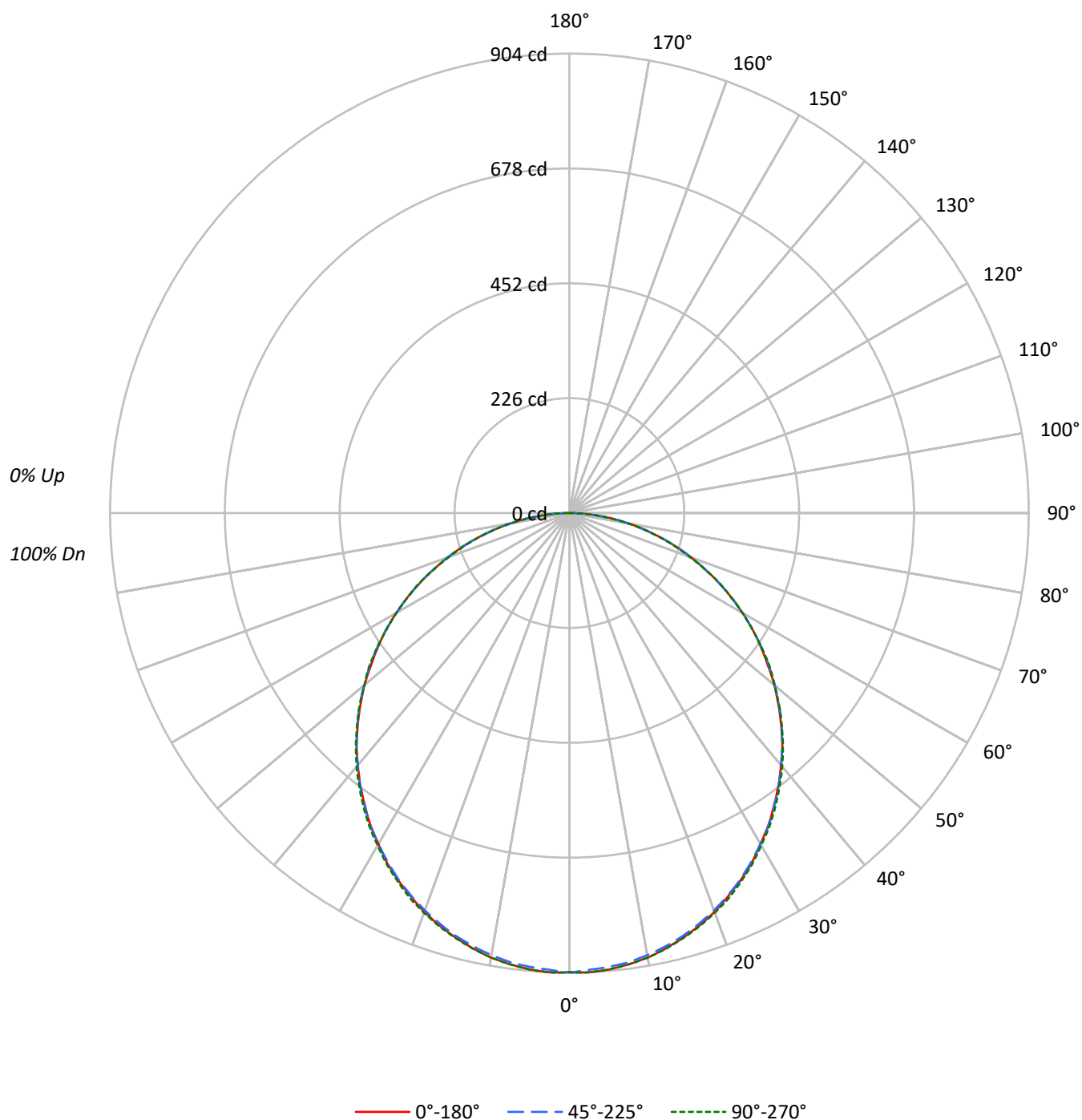
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100			
1	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2432	2432	2432
5°	2434	2421	2434
10°	2426	2413	2426
15°	2410	2400	2412
20°	2391	2382	2396
25°	2367	2362	2374
30°	2336	2336	2346
35°	2306	2309	2320
40°	2275	2278	2289
45°	2242	2248	2251
50°	2203	2210	2206
55°	2159	2170	2167
60°	2116	2116	2116
65°	2067	2067	2078
70°	2002	2002	1982
75°	1933	1923	1915
80°	1843	1830	1818
85°	1735	1707	1658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	3.3
10°-20°	243.9	9.4
20°-30°	367.5	14.2
30°-40°	440.4	17.0
40°-50°	455.4	17.6
50°-60°	413.0	16.0
60°-70°	320.9	12.4
70°-80°	196.0	7.6
80°-90°	61.3	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°	696.9	27.0
0°-40°	1137.3	44.0
0°-60°	2005.7	77.6
0°-90°	2584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2584.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	901	900	896	900	901	86
15°	865	865	862	866	866	244
25°	797	797	796	800	800	367
35°	702	703	703	706	706	439
45°	589	590	591	591	591	454
55°	460	462	463	463	462	412
65°	325	325	325	323	326	321
75°	186	186	185	184	184	197
85°	56	54	55	54	54	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	903.7	903.7	903.7	903.7	903.7
2.5°	904.5	903.7	899.5	903.7	904.5
5°	901.2	900.4	896.2	900.4	901.2
7.5°	895.4	895.4	891.3	895.4	895.4
10°	888.0	887.2	883.0	887.2	888.0
12.5°	877.2	877.2	873.1	877.2	878.1
15°	864.9	864.9	861.5	865.7	865.7
17.5°	850.8	851.6	847.5	852.5	852.5
20°	835.1	834.3	831.8	835.9	836.8
22.5°	816.1	816.9	814.5	819.4	820.2
25°	797.1	797.1	795.5	800.4	799.6
27.5°	776.5	776.5	774.0	778.1	778.9
30°	751.7	752.5	751.7	755.8	755.0
32.5°	728.6	729.4	729.4	731.0	731.9
35°	702.1	703.0	703.0	706.3	706.3
37.5°	675.7	675.7	676.5	679.0	679.0
40°	647.6	648.4	648.4	650.9	651.7
42.5°	620.3	618.7	619.5	622.0	622.0
45°	589.0	589.8	590.6	591.4	591.4
47.5°	557.6	559.2	560.0	560.9	560.0
50°	526.2	527.8	527.8	527.0	527.0
52.5°	492.3	496.4	495.6	495.6	497.3
55°	460.1	461.8	462.6	462.6	461.8
57.5°	427.9	429.5	427.9	428.7	427.1
60°	393.2	394.0	393.2	393.2	393.2
62.5°	359.3	360.1	358.5	358.5	358.5
65°	324.6	324.6	324.6	323.0	326.3
67.5°	288.3	289.9	289.9	290.8	287.5
70°	254.4	255.2	254.4	253.6	251.9
72.5°	220.5	221.4	222.2	218.9	218.1
75°	185.9	185.9	185.0	184.2	184.2
77.5°	152.0	152.0	152.0	150.3	150.3
80°	118.9	119.8	118.1	118.1	117.3
82.5°	86.7	86.7	86.7	85.9	84.3
85°	56.2	54.5	55.3	53.7	53.7
87.5°	25.6	25.6	25.6	24.0	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)