

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: P291609

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291609
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-L82765-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: 2639.0 lumens
Efficiency: N/A
Efficacy: 90.7 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

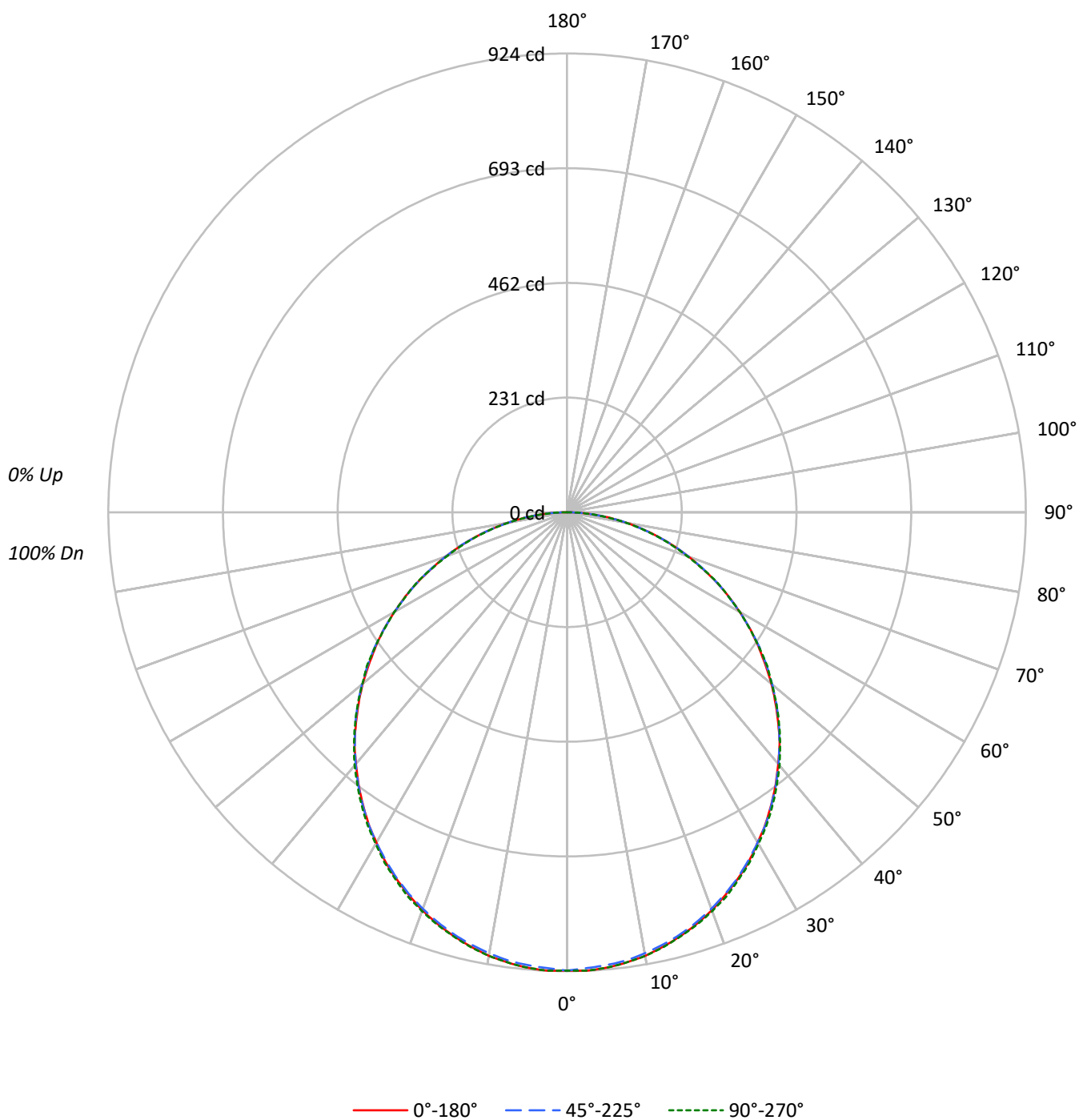
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2484	2484	2484
5°	2486	2472	2486
10°	2478	2464	2478
15°	2461	2451	2463
20°	2442	2433	2447
25°	2417	2412	2425
30°	2385	2385	2396
35°	2356	2358	2370
40°	2323	2326	2338
45°	2289	2296	2299
50°	2250	2257	2253
55°	2205	2216	2213
60°	2161	2161	2161
65°	2111	2111	2122
70°	2044	2044	2024
75°	1973	1965	1956
80°	1883	1869	1857
85°	1772	1744	1692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.3	3.3
10°-20°	249.1	9.4
20°-30°	375.3	14.2
30°-40°	449.8	17.0
40°-50°	465.1	17.6
50°-60°	421.8	16.0
60°-70°	327.8	12.4
70°-80°	200.2	7.6
80°-90°	62.7	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°	711.7	27.0
0°-40°	1161.5	44.0
0°-60°	2048.4	77.6
0°-90°	2639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2639.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	920	920	915	920	920	87
15°	883	883	880	884	884	249
25°	814	814	812	818	817	375
35°	717	718	718	721	721	449
45°	602	602	603	604	604	464
55°	470	472	472	472	472	420
65°	332	332	332	330	333	328
75°	190	190	189	188	188	201
85°	57	56	56	55	55	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	922.9	922.9	922.9	922.9	922.9
2.5°	923.8	922.9	918.7	922.9	923.8
5°	920.4	919.5	915.3	919.5	920.4
7.5°	914.5	914.5	910.3	914.5	914.5
10°	906.9	906.0	901.8	906.0	906.9
12.5°	895.9	895.9	891.7	895.9	896.8
15°	883.3	883.3	879.9	884.1	884.1
17.5°	868.9	869.8	865.5	870.6	870.6
20°	852.9	852.0	849.5	853.7	854.6
22.5°	833.5	834.3	831.8	836.9	837.7
25°	814.1	814.1	812.4	817.5	816.6
27.5°	793.0	793.0	790.5	794.7	795.5
30°	767.7	768.5	767.7	771.9	771.1
32.5°	744.1	744.9	744.9	746.6	747.4
35°	717.1	717.9	717.9	721.3	721.3
37.5°	690.1	690.1	690.9	693.4	693.4
40°	661.4	662.2	662.2	664.8	665.6
42.5°	633.6	631.9	632.7	635.2	635.2
45°	601.5	602.3	603.2	604.0	604.0
47.5°	569.4	571.1	572.0	572.8	572.0
50°	537.4	539.1	539.1	538.2	538.2
52.5°	502.8	507.0	506.2	506.2	507.9
55°	469.9	471.6	472.4	472.4	471.6
57.5°	437.0	438.7	437.0	437.8	436.1
60°	401.6	402.4	401.6	401.6	401.6
62.5°	367.0	367.8	366.1	366.1	366.1
65°	331.5	331.5	331.5	329.9	333.2
67.5°	294.4	296.1	296.1	297.0	293.6
70°	259.8	260.7	259.8	259.0	257.3
72.5°	225.2	226.1	226.9	223.6	222.7
75°	189.8	189.8	189.0	188.1	188.1
77.5°	155.2	155.2	155.2	153.5	153.5
80°	121.5	122.3	120.6	120.6	119.8
82.5°	88.6	88.6	88.6	87.7	86.0
85°	57.4	55.7	56.5	54.8	54.8
87.5°	26.2	26.2	26.2	24.5	27.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)