

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: FAIL-SAFE

Report Number: P580107

Luminaire Tested: **HVSL12-2-LD4-1HI-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-135-6)
Test Lab: INNOVATION CENTER
Issue Date: 12/16/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: HVSL12-2-LD4-1HI-30-UNV-O-EDD-90
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

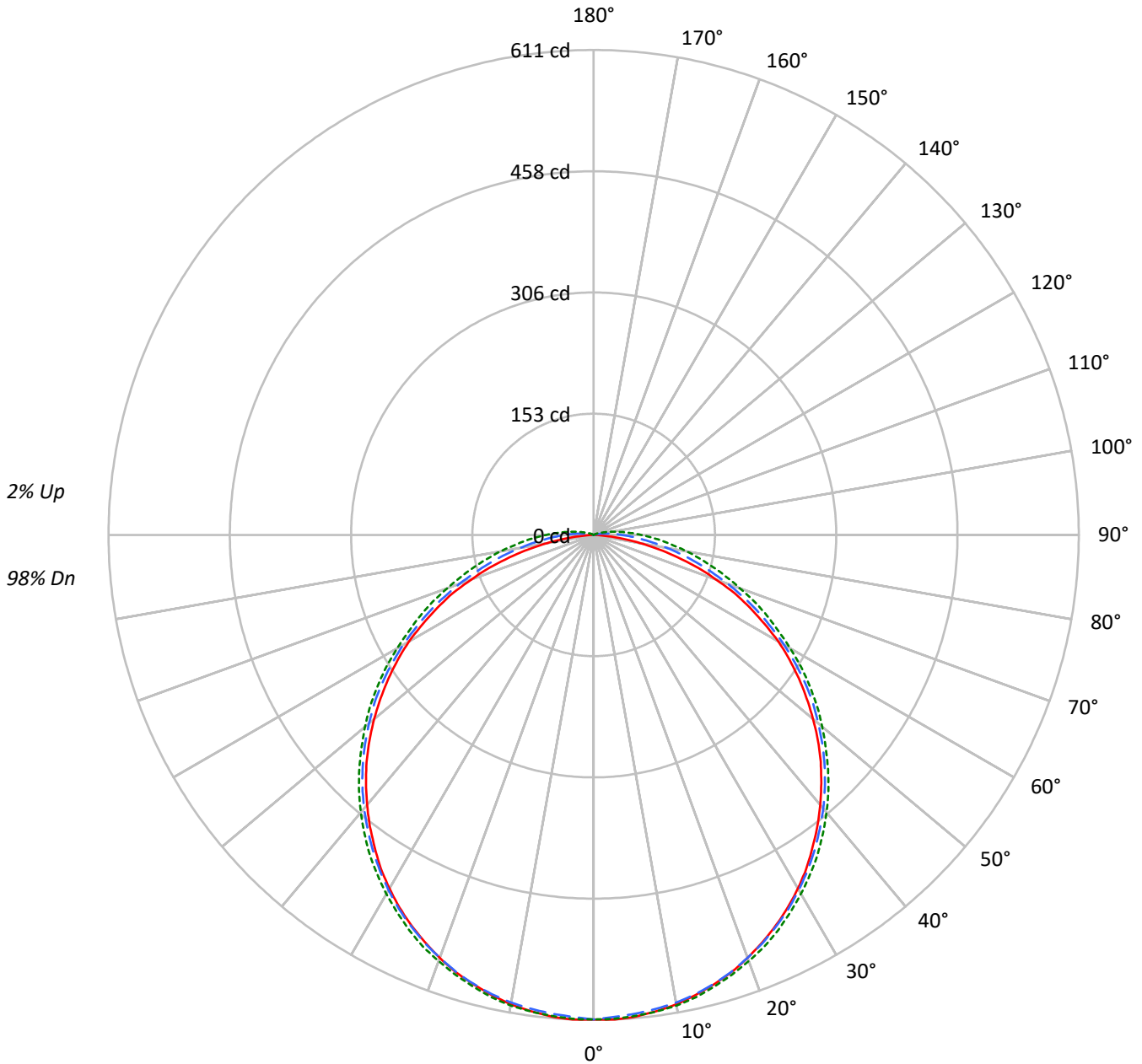
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1846.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 22.8
Input Voltage (V): NR
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101				98																
1	108	102	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83				81																
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69				67																
3	89	78	69	63	86	76	68	62	73	66	61	70	64	59	67	62	58				56																
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	54	50				47																
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43				41																
6	69	55	46	40	67	54	46	39	52	45	39	50	44	38	49	43	38				36																
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	34				32																
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30				28																
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27				25																
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25				23																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3286	3286	3286
5°	3267	3221	3239
10°	3234	3171	3197
15°	3194	3115	3140
20°	3152	3051	3085
25°	3104	2985	3028
30°	3050	2914	2960
35°	2984	2835	2893
40°	2915	2752	2812
45°	2841	2660	2723
50°	2748	2554	2626
55°	2646	2437	2518
60°	2526	2282	2387
65°	2343	2108	2262
70°	2090	1901	2112
75°	1741	1674	1990
80°	1248	1452	1896
85°	601	1233	1845



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	3.1
10°-20°	165.7	9.0
20°-30°	251.5	13.6
30°-40°	304.1	16.5
40°-50°	317.3	17.2
50°-60°	290.1	15.7
60°-70°	226.1	12.3
70°-80°	141.5	7.7
80°-90°	64.2	3.5
90°-100°	21.5	1.2
100°-110°	5.4	0.3
110°-120°	0.8	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°	475.0	25.7
0°-40°	779.0	42.2
0°-60°	1386.4	75.1
0°-90°	1818.2	98.5
90°-120°	27.8	1.5
90°-150°	27.8	1.5
90°-180°	28.0	1.5
0°-180°	1846.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	610	610	610	610	610	
5°	609	608	605	608	608	58
15°	586	587	586	589	589	165
25°	543	544	544	549	550	250
35°	481	483	485	490	492	301
45°	404	408	411	415	417	312
55°	316	319	325	330	332	282
65°	217	221	228	237	241	215
75°	110	117	134	150	155	117
85°	19	35	60	80	87	24
90°	0	13	36	53	60	1
95°	0	4	18	33	39	0
105°	0	0	3	9	12	0
115°	0	0	1	2	2	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	610.5	610.5	610.5	610.5	610.5
2.5°	611.3	610.4	607.7	610.4	610.3
5°	609.2	608.1	605.4	608.2	608.2
7.5°	605.2	604.8	602.3	605.7	605.7
10°	600.5	600.3	598.3	601.9	602.1
12.5°	593.8	594.4	592.6	596.0	596.4
15°	586.1	587.1	585.5	588.8	588.7
17.5°	577.6	578.2	577.0	580.8	580.6
20°	567.1	567.8	566.9	570.8	571.3
22.5°	555.4	556.4	556.3	560.3	561.5
25°	543.0	543.5	544.1	548.7	549.5
27.5°	529.4	530.1	531.1	535.3	536.1
30°	514.4	515.6	516.7	521.0	522.2
32.5°	498.6	499.7	501.2	506.8	507.3
35°	480.7	482.9	484.9	489.8	491.8
37.5°	462.9	465.6	467.5	472.7	474.2
40°	444.0	446.8	449.8	455.2	456.3
42.5°	424.3	427.5	431.1	436.0	437.7
45°	404.4	408.0	411.3	415.4	417.4
47.5°	383.0	386.6	390.6	395.2	396.5
50°	360.8	365.0	369.3	373.6	375.9
52.5°	338.1	343.1	348.0	352.6	354.8
55°	315.6	319.4	325.3	330.0	332.2
57.5°	292.3	295.5	300.8	308.6	309.7
60°	268.6	271.4	276.9	283.3	285.8
62.5°	242.4	246.3	252.0	260.1	262.4
65°	216.9	220.6	228.3	237.3	241.1
67.5°	192.3	193.6	203.4	212.9	218.9
70°	163.2	168.1	179.5	191.1	195.7
72.5°	138.2	143.1	155.6	169.3	175.0
75°	109.8	116.6	133.6	149.5	155.2
77.5°	84.9	92.4	113.4	129.5	136.0
80°	59.3	71.0	93.8	112.0	119.0
82.5°	37.3	51.7	76.1	95.1	101.3
85°	19.0	35.1	60.3	79.7	86.8
87.5°	5.0	22.7	46.9	65.5	72.7
90°	0.1	13.1	35.6	53.4	59.9
92.5°	0.1	7.3	26.5	42.5	49.1
95°	0.1	3.5	18.4	33.4	38.6
97.5°	0.1	1.4	12.7	25.2	30.4
100°	0.1	0.7	8.1	18.3	22.7
102.5°	0.3	0.4	5.0	13.1	16.7
105°	0.3	0.4	3.0	8.9	11.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	0.4	0.6	2.4	3.6
115°	0.4	0.4	0.6	1.6	2.3
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	0.3	0.4	1.7	6.0	8.2
110°	0.4	0.4	1.0	3.7	5.5



(END OF REPORT)