

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: P580139

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

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580139  
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-LD4-2LO-30-UNV-O-EDD-90  
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

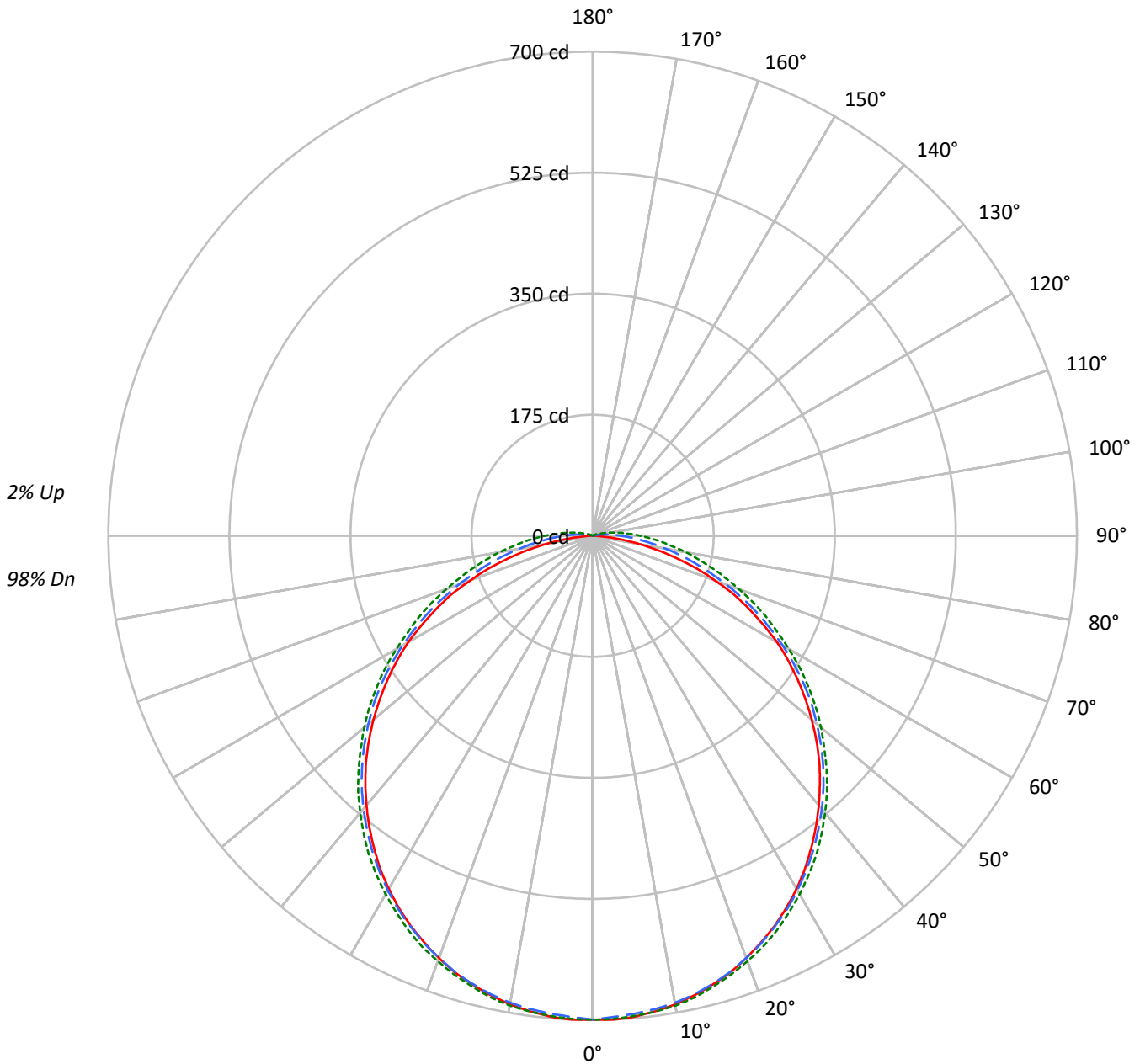
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2115.0 lumens  
Efficiency: N/A  
Efficacy: 86.7 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): 24.4  
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				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	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°	3765	3765	3765
5°	3744	3690	3711
10°	3705	3633	3662
15°	3660	3569	3597
20°	3612	3495	3534
25°	3557	3419	3469
30°	3495	3338	3392
35°	3419	3248	3315
40°	3340	3153	3222
45°	3256	3048	3120
50°	3149	2926	3008
55°	3032	2792	2885
60°	2894	2615	2735
65°	2685	2415	2591
70°	2394	2177	2421
75°	1995	1917	2279
80°	1429	1664	2173
85°	689	1412	2113



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.2	3.1
10°-20°	189.9	9.0
20°-30°	288.1	13.6
30°-40°	348.4	16.5
40°-50°	363.5	17.2
50°-60°	332.3	15.7
60°-70°	259.1	12.2
70°-80°	162.1	7.7
80°-90°	73.6	3.5
90°-100°	24.7	1.2
100°-110°	6.2	0.3
110°-120°	1.0	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°	544.2	25.7
0°-40°	892.6	42.2
0°-60°	1588.4	75.1
0°-90°	2083.1	98.5
90°-120°	31.8	1.5
90°-150°	31.8	1.5
90°-180°	32.0	1.5
0°-180°	2115.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	700	700	700	700	700	
5°	698	697	694	697	697	66
15°	672	673	671	675	674	190
25°	622	623	623	629	630	287
35°	551	553	556	561	564	345
45°	463	468	471	476	478	357
55°	362	366	373	378	381	323
65°	248	253	262	272	276	246
75°	126	134	153	171	178	134
85°	22	40	69	91	99	28
90°	0	15	41	61	69	1
95°	0	4	21	38	44	0
105°	0	0	4	10	14	0
115°	0	0	1	2	3	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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	699.5	699.5	699.5	699.5	699.5
2.5°	700.3	699.3	696.2	699.3	699.2
5°	698.0	696.7	693.6	696.9	696.9
7.5°	693.4	692.9	690.1	693.9	693.9
10°	688.0	687.8	685.5	689.6	689.8
12.5°	680.4	681.0	678.9	682.9	683.4
15°	671.5	672.6	670.8	674.6	674.4
17.5°	661.8	662.4	661.1	665.4	665.2
20°	649.7	650.5	649.5	654.0	654.5
22.5°	636.4	637.5	637.3	642.0	643.3
25°	622.2	622.7	623.3	628.6	629.6
27.5°	606.5	607.3	608.5	613.3	614.3
30°	589.4	590.7	592.0	596.9	598.3
32.5°	571.2	572.5	574.2	580.6	581.3
35°	550.8	553.2	555.6	561.2	563.5
37.5°	530.3	533.5	535.6	541.5	543.4
40°	508.7	511.9	515.3	521.6	522.7
42.5°	486.1	489.8	493.9	499.5	501.5
45°	463.4	467.5	471.3	475.9	478.2
47.5°	438.8	442.9	447.5	452.8	454.3
50°	413.4	418.2	423.1	428.1	430.7
52.5°	387.4	393.1	398.7	404.0	406.5
55°	361.6	365.9	372.7	378.1	380.6
57.5°	334.9	338.5	344.6	353.5	354.9
60°	307.7	311.0	317.3	324.5	327.5
62.5°	277.7	282.1	288.7	298.0	300.6
65°	248.5	252.8	261.5	271.9	276.2
67.5°	220.3	221.8	233.0	243.9	250.8
70°	187.0	192.6	205.6	219.0	224.3
72.5°	158.3	163.9	178.3	193.9	200.5
75°	125.8	133.6	153.0	171.3	177.8
77.5°	97.3	105.9	129.9	148.4	155.8
80°	67.9	81.3	107.5	128.3	136.4
82.5°	42.7	59.2	87.2	109.0	116.1
85°	21.8	40.2	69.1	91.4	99.4
87.5°	5.8	26.1	53.8	75.0	83.3
90°	0.2	15.0	40.7	61.2	68.6
92.5°	0.2	8.4	30.3	48.6	56.2
95°	0.2	4.0	21.1	38.3	44.2
97.5°	0.2	1.6	14.5	28.9	34.8
100°	0.2	0.8	9.2	20.9	26.1
102.5°	0.3	0.5	5.8	15.0	19.1
105°	0.3	0.5	3.5	10.2	13.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	0.5	0.7	2.8	4.1
115°	0.5	0.5	0.7	1.8	2.6
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	0.5	2.0	6.9	9.4
110°	0.5	0.5	1.2	4.3	6.3



(END OF REPORT)