

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: P580118

Luminaire Tested: **HVSL12-2-LD4-1LO-35-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580118  
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-LD4-1LO-35-UNV-O-EDD  
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

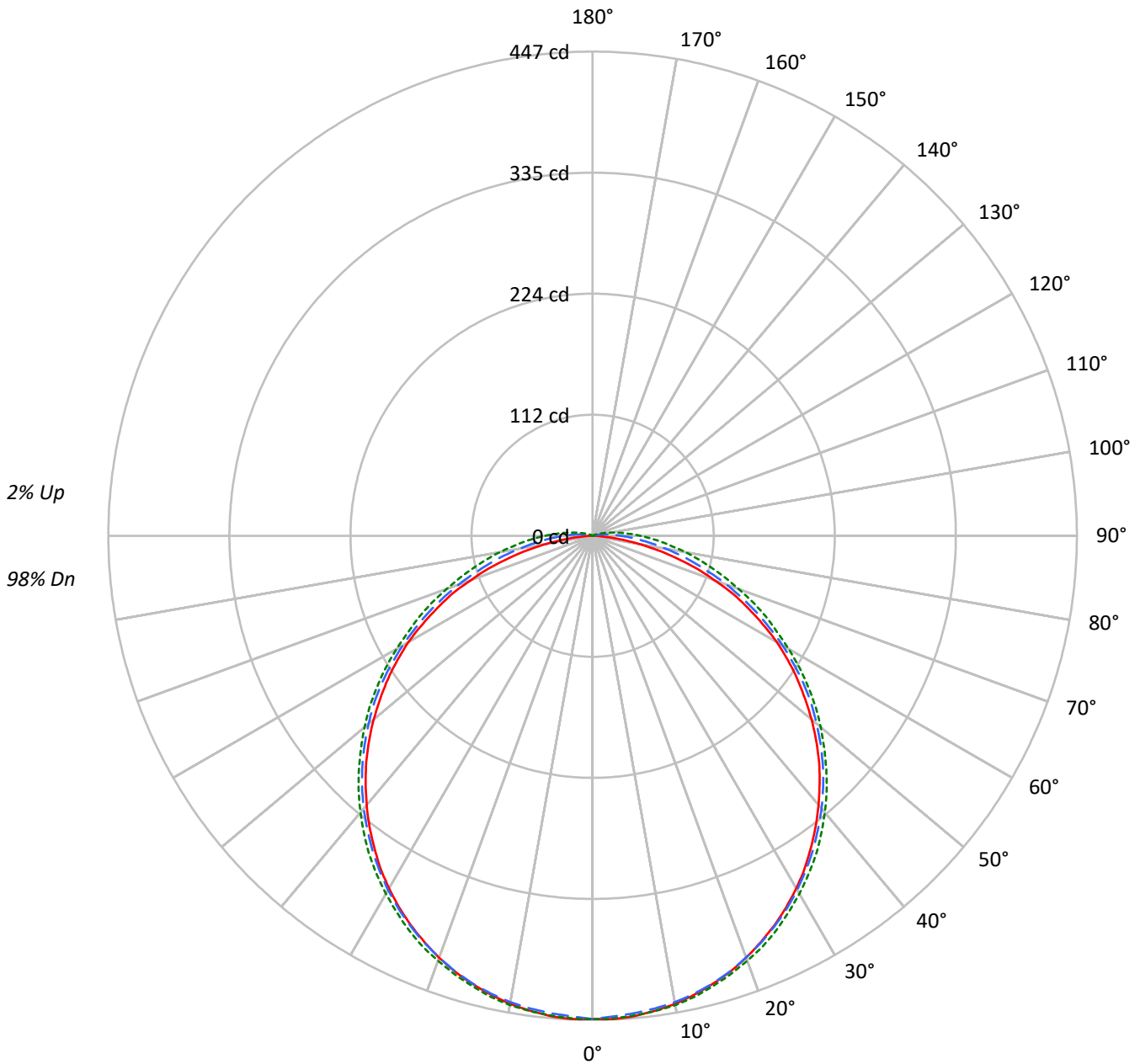
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1349.0 lumens  
Efficiency: N/A  
Efficacy: 110.6 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): 12.2  
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

TEST NUMBER: P580118

CATALOG NUMBER: HVSL12-2-LD4-1LO-35-UNV-O-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P580118

CATALOG NUMBER: HVSL12-2-LD4-1LO-35-UNV-O-EDD

**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°	2401	2401	2401
5°	2388	2354	2367
10°	2363	2317	2336
15°	2334	2276	2295
20°	2304	2229	2254
25°	2268	2181	2213
30°	2229	2129	2163
35°	2181	2071	2115
40°	2131	2011	2055
45°	2077	1944	1990
50°	2008	1867	1919
55°	1934	1781	1840
60°	1846	1668	1745
65°	1712	1540	1653
70°	1527	1390	1543
75°	1274	1223	1454
80°	911	1062	1386
85°	440	901	1348



TEST NUMBER: P580118

CATALOG NUMBER: HVSL12-2-LD4-1LO-35-UNV-O-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.2	3.1
10°-20°	121.1	9.0
20°-30°	183.8	13.6
30°-40°	222.2	16.5
40°-50°	231.9	17.2
50°-60°	212.0	15.7
60°-70°	165.3	12.2
70°-80°	103.4	7.7
80°-90°	47.0	3.5
90°-100°	15.8	1.2
100°-110°	3.9	0.3
110°-120°	0.6	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°	347.1	25.7
0°-40°	569.3	42.2
0°-60°	1013.1	75.1
0°-90°	1328.7	98.5
90°-120°	20.3	1.5
90°-150°	20.3	1.5
90°-180°	20.0	1.5
0°-180°	1349.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	446	446	446	446	446	
5°	445	444	442	444	444	42
15°	428	429	428	430	430	121
25°	397	397	398	401	402	183
35°	351	353	354	358	359	220
45°	296	298	301	304	305	228
55°	231	233	238	241	243	206
65°	158	161	167	173	176	157
75°	80	85	98	109	113	86
85°	14	26	44	58	63	18
90°	0	10	26	39	44	1
95°	0	2	14	24	28	0
105°	0	0	2	6	9	0
115°	0	0	0	1	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	0



TEST NUMBER: P580118

CATALOG NUMBER: HVSL12-2-LD4-1LO-35-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	446.2	446.2	446.2	446.2	446.2
2.5°	446.7	446.1	444.1	446.1	446.0
5°	445.2	444.4	442.4	444.5	444.5
7.5°	442.3	442.0	440.2	442.6	442.6
10°	438.8	438.7	437.2	439.9	440.0
12.5°	434.0	434.4	433.0	435.5	435.9
15°	428.3	429.0	427.9	430.3	430.2
17.5°	422.1	422.5	421.7	424.4	424.3
20°	414.4	414.9	414.3	417.1	417.5
22.5°	405.9	406.6	406.5	409.5	410.3
25°	396.8	397.2	397.6	400.9	401.6
27.5°	386.8	387.4	388.1	391.2	391.8
30°	375.9	376.7	377.6	380.7	381.6
32.5°	364.3	365.2	366.2	370.3	370.8
35°	351.3	352.9	354.3	357.9	359.4
37.5°	338.3	340.3	341.6	345.4	346.6
40°	324.5	326.5	328.7	332.7	333.4
42.5°	310.1	312.4	315.0	318.6	319.8
45°	295.6	298.2	300.6	303.5	305.0
47.5°	279.9	282.5	285.5	288.8	289.8
50°	263.7	266.7	269.9	273.0	274.7
52.5°	247.1	250.7	254.3	257.7	259.3
55°	230.7	233.4	237.7	241.2	242.8
57.5°	213.6	215.9	219.8	225.5	226.3
60°	196.3	198.4	202.4	207.0	208.9
62.5°	177.1	180.0	184.2	190.1	191.7
65°	158.5	161.2	166.8	173.4	176.2
67.5°	140.5	141.5	148.6	155.6	160.0
70°	119.3	122.8	131.2	139.7	143.0
72.5°	101.0	104.5	113.7	123.7	127.9
75°	80.3	85.2	97.6	109.3	113.4
77.5°	62.1	67.5	82.9	94.7	99.4
80°	43.3	51.9	68.6	81.8	87.0
82.5°	27.2	37.8	55.6	69.5	74.0
85°	13.9	25.7	44.1	58.3	63.4
87.5°	3.7	16.6	34.3	47.9	53.1
90°	0.1	9.6	26.0	39.0	43.8
92.5°	0.1	5.4	19.4	31.0	35.9
95°	0.1	2.5	13.5	24.4	28.2
97.5°	0.1	1.1	9.3	18.4	22.2
100°	0.1	0.5	5.9	13.4	16.6
102.5°	0.2	0.3	3.7	9.6	12.2
105°	0.2	0.3	2.2	6.5	8.7



TEST NUMBER: P580118

CATALOG NUMBER: HVSL12-2-LD4-1LO-35-UNV-O-EDD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.4	1.8	2.6
115°	0.3	0.3	0.4	1.2	1.7
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°	0.2	0.3	1.3	4.4	6.0
110°	0.3	0.3	0.7	2.7	4.0



(END OF REPORT)