

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: P580251

Luminaire Tested: **HVSL12-8-LD4-1HI-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580251  
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: HVSL12-8-LD4-1HI-30-UNV-O-EDD-90  
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

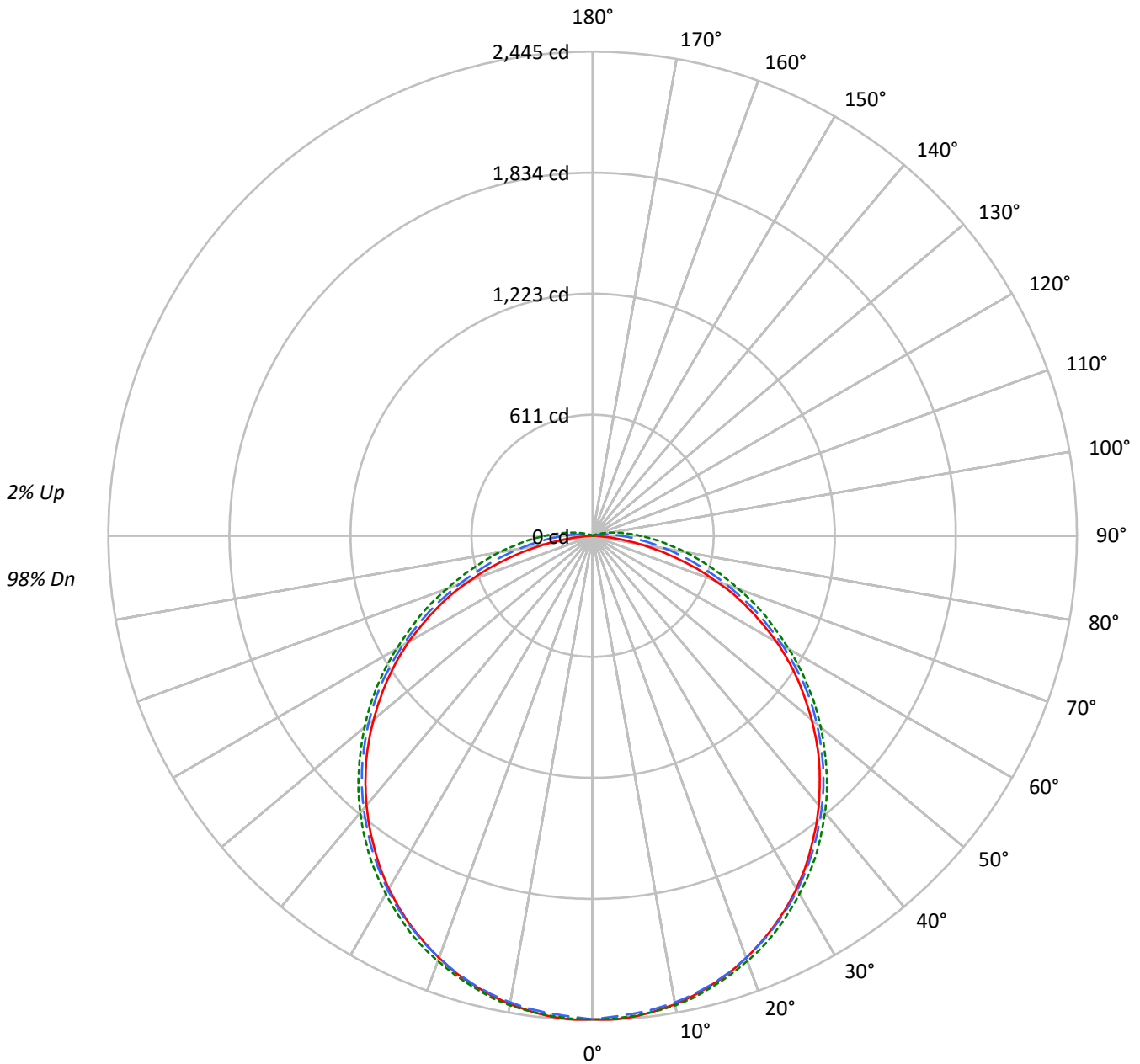
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7384.0 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 91  
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°	3285	3233	3239
10°	3270	3195	3196
15°	3247	3150	3140
20°	3223	3097	3085
25°	3194	3043	3028
30°	3159	2983	2960
35°	3113	2915	2893
40°	3066	2844	2812
45°	3016	2764	2723
50°	2948	2670	2626
55°	2876	2566	2518
60°	2790	2424	2388
65°	2644	2263	2262
70°	2429	2070	2113
75°	2119	1858	1989
80°	1644	1660	1896
85°	948	1480	1845



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.1	3.1
10°-20°	662.9	9.0
20°-30°	1005.9	13.6
30°-40°	1216.3	16.5
40°-50°	1269.1	17.2
50°-60°	1160.3	15.7
60°-70°	904.5	12.2
70°-80°	565.8	7.7
80°-90°	257.0	3.5
90°-100°	86.1	1.2
100°-110°	21.6	0.3
110°-120°	3.4	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°	1899.9	25.7
0°-40°	3116.1	42.2
0°-60°	5545.5	75.1
0°-90°	7272.8	98.5
90°-120°	111.2	1.5
90°-150°	111.2	1.5
90°-180°	111.0	1.5
0°-180°	7384.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2442	2442	2442	2442	2442	
5°	2437	2432	2422	2433	2433	231
15°	2344	2348	2342	2355	2355	662
25°	2172	2174	2176	2195	2198	1001
35°	1923	1932	1940	1959	1967	1204
45°	1618	1632	1645	1662	1670	1247
55°	1262	1278	1301	1320	1329	1128
65°	868	883	913	949	964	858
75°	439	466	534	598	621	468
85°	76	140	241	319	347	96
90°	1	52	142	214	240	3
95°	1	14	74	134	154	0
105°	1	2	12	36	48	1
115°	2	2	2	6	9	1
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: P580251

CATALOG NUMBER: HVSL12-8-LD4-1HI-30-UNV-O-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2442.2	2442.2	2442.2	2442.2	2442.2
2.5°	2445.1	2441.6	2430.7	2441.6	2441.0
5°	2437.0	2432.4	2421.5	2433.0	2433.0
7.5°	2420.9	2419.2	2409.4	2422.6	2422.6
10°	2401.9	2401.3	2393.2	2407.6	2408.2
12.5°	2375.4	2377.7	2370.2	2384.0	2385.8
15°	2344.3	2348.3	2342.0	2355.2	2354.7
17.5°	2310.3	2312.6	2308.0	2323.0	2322.4
20°	2268.3	2271.2	2267.7	2283.3	2285.0
22.5°	2221.7	2225.7	2225.1	2241.3	2245.9
25°	2172.2	2173.9	2176.2	2194.6	2198.1
27.5°	2117.5	2120.4	2124.4	2141.1	2144.5
30°	2057.6	2062.2	2066.8	2084.1	2088.7
32.5°	1994.3	1998.9	2004.6	2027.1	2029.4
35°	1922.9	1931.5	1939.6	1959.2	1967.2
37.5°	1851.5	1862.4	1869.9	1890.6	1897.0
40°	1776.1	1787.0	1799.1	1821.0	1825.0
42.5°	1697.2	1709.9	1724.3	1743.8	1750.7
45°	1617.8	1632.2	1645.4	1661.5	1669.6
47.5°	1532.0	1546.4	1562.5	1580.9	1586.1
50°	1443.3	1460.0	1477.3	1494.6	1503.8
52.5°	1352.4	1372.5	1392.1	1410.5	1419.1
55°	1262.5	1277.5	1301.1	1320.1	1328.7
57.5°	1169.3	1181.9	1203.2	1234.3	1238.9
60°	1074.3	1085.8	1107.7	1133.0	1143.4
62.5°	969.5	985.0	1008.1	1040.3	1049.5
65°	867.6	882.6	913.1	949.4	964.3
67.5°	769.2	774.3	813.5	851.5	875.7
70°	652.9	672.4	717.9	764.5	783.0
72.5°	552.7	572.3	622.3	677.0	700.1
75°	439.3	466.3	534.3	598.2	620.6
77.5°	339.7	369.6	453.7	518.1	544.1
80°	237.2	283.8	375.4	447.9	476.1
82.5°	149.1	206.7	304.6	380.5	405.3
85°	76.0	140.5	241.2	318.9	347.2
87.5°	20.2	91.0	187.7	262.0	290.7
90°	0.6	52.4	142.2	213.6	239.5
92.5°	0.6	29.4	105.9	169.8	196.3
95°	0.6	13.8	73.7	133.6	154.3
97.5°	0.6	5.8	50.7	100.8	121.5
100°	0.6	2.9	32.2	73.1	91.0
102.5°	1.2	1.7	20.2	52.4	66.8
105°	1.2	1.7	12.1	35.7	47.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	1.7	2.3	9.8	14.4
115°	1.7	1.7	2.3	6.3	9.2
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°	1.2	1.7	6.9	24.2	32.8
110°	1.7	1.7	4.0	15.0	21.9



(END OF REPORT)