

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: P580262

Luminaire Tested: **HVSL12-8-LD4-1LO-35-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580262  
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-LD4-1LO-35-UNV-O-EDD  
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

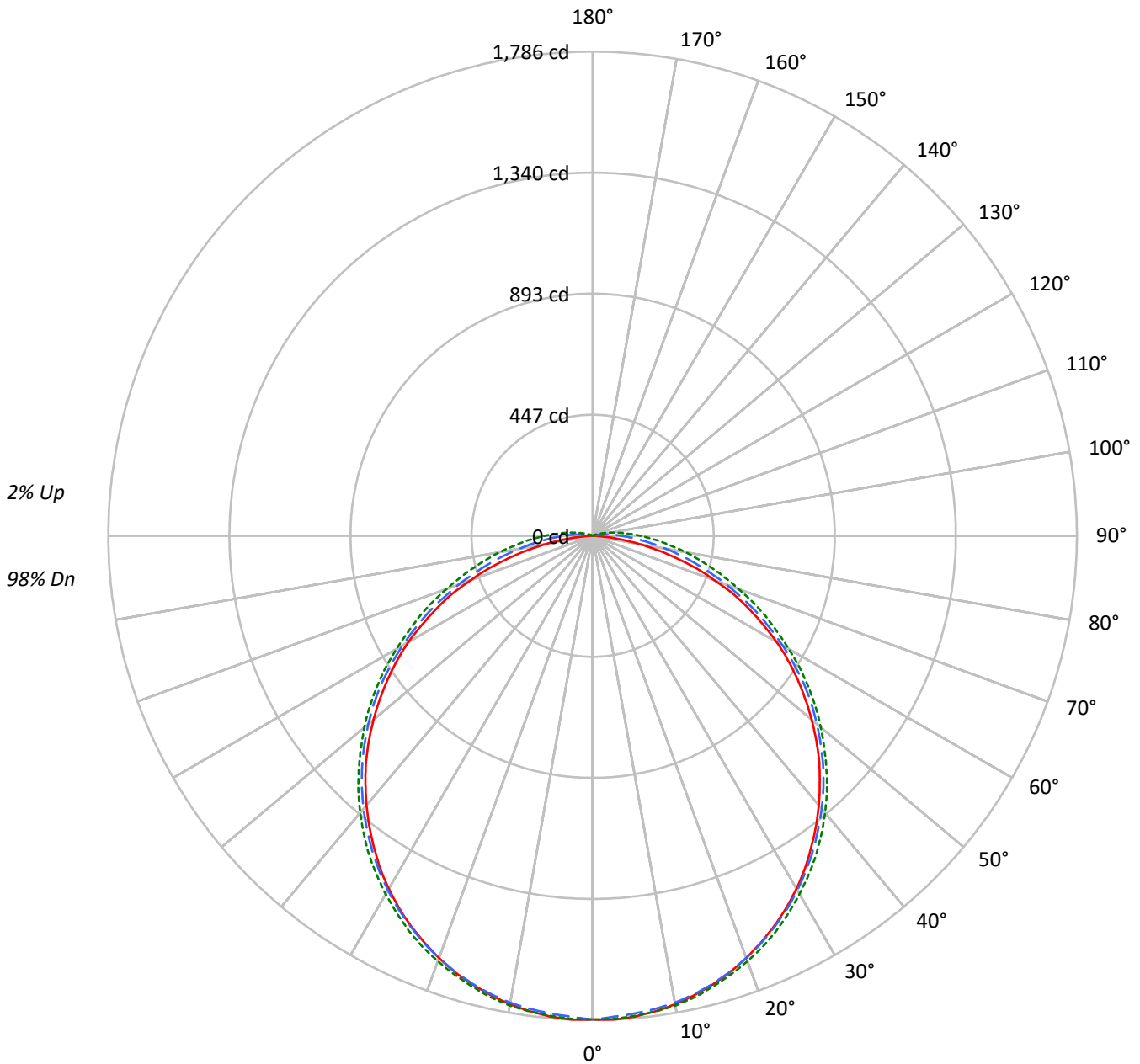
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5395.0 lumens  
Efficiency: N/A  
Efficacy: 110.8 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): 48.7  
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°	2401	2401	2401
5°	2401	2362	2366
10°	2389	2334	2335
15°	2373	2302	2294
20°	2355	2263	2254
25°	2334	2223	2212
30°	2308	2179	2163
35°	2274	2130	2114
40°	2240	2078	2055
45°	2203	2020	1989
50°	2154	1951	1919
55°	2101	1875	1839
60°	2039	1771	1744
65°	1932	1654	1652
70°	1775	1512	1544
75°	1548	1358	1453
80°	1201	1213	1386
85°	692	1081	1348



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.9	3.1
10°-20°	484.3	9.0
20°-30°	734.9	13.6
30°-40°	888.6	16.5
40°-50°	927.2	17.2
50°-60°	847.8	15.7
60°-70°	660.9	12.2
70°-80°	413.4	7.7
80°-90°	187.8	3.5
90°-100°	62.9	1.2
100°-110°	15.8	0.3
110°-120°	2.5	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°	1388.1	25.7
0°-40°	2276.7	42.2
0°-60°	4051.7	75.1
0°-90°	5313.8	98.5
90°-120°	81.2	1.5
90°-150°	81.2	1.5
90°-180°	81.0	1.5
0°-180°	5395.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1781	1777	1769	1778	1778	169
15°	1713	1716	1711	1721	1720	484
25°	1587	1588	1590	1604	1606	731
35°	1405	1411	1417	1431	1437	879
45°	1182	1192	1202	1214	1220	911
55°	922	933	951	964	971	824
65°	634	645	667	694	705	627
75°	321	341	390	437	453	342
85°	56	103	176	233	254	70
90°	0	38	104	156	175	2
95°	0	10	54	98	113	0
105°	1	1	9	26	35	1
115°	1	1	2	5	7	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1784.3	1784.3	1784.3	1784.3	1784.3
2.5°	1786.4	1783.9	1775.9	1783.9	1783.5
5°	1780.6	1777.2	1769.2	1777.6	1777.6
7.5°	1768.8	1767.5	1760.4	1770.0	1770.0
10°	1754.9	1754.5	1748.6	1759.1	1759.5
12.5°	1735.5	1737.2	1731.8	1741.9	1743.1
15°	1712.8	1715.8	1711.1	1720.8	1720.4
17.5°	1688.0	1689.7	1686.3	1697.3	1696.8
20°	1657.3	1659.4	1656.9	1668.2	1669.5
22.5°	1623.2	1626.2	1625.8	1637.5	1640.9
25°	1587.1	1588.3	1590.0	1603.5	1606.0
27.5°	1547.1	1549.2	1552.1	1564.3	1566.9
30°	1503.4	1506.7	1510.1	1522.7	1526.1
32.5°	1457.1	1460.4	1464.7	1481.1	1482.7
35°	1404.9	1411.2	1417.1	1431.4	1437.3
37.5°	1352.8	1360.8	1366.2	1381.4	1386.0
40°	1297.7	1305.7	1314.5	1330.5	1333.4
42.5°	1240.0	1249.3	1259.8	1274.1	1279.2
45°	1182.0	1192.5	1202.2	1214.0	1219.8
47.5°	1119.3	1129.8	1141.6	1155.1	1158.9
50°	1054.5	1066.7	1079.4	1092.0	1098.7
52.5°	988.1	1002.8	1017.1	1030.6	1036.9
55°	922.5	933.4	950.6	964.5	970.8
57.5°	854.3	863.6	879.1	901.8	905.2
60°	784.9	793.3	809.3	827.8	835.4
62.5°	708.4	719.7	736.5	760.1	766.8
65°	633.9	644.8	667.1	693.6	704.6
67.5°	562.0	565.8	594.4	622.1	639.8
70°	477.0	491.3	524.5	558.6	572.1
72.5°	403.8	418.1	454.7	494.7	511.5
75°	320.9	340.7	390.4	437.0	453.4
77.5°	248.2	270.0	331.5	378.6	397.5
80°	173.3	207.4	274.3	327.3	347.9
82.5°	108.9	151.0	222.5	278.0	296.1
85°	55.5	102.6	176.2	233.0	253.6
87.5°	14.7	66.5	137.1	191.4	212.4
90°	0.4	38.3	103.9	156.1	175.0
92.5°	0.4	21.5	77.4	124.1	143.4
95°	0.4	10.1	53.8	97.6	112.7
97.5°	0.4	4.2	37.0	73.6	88.8
100°	0.4	2.1	23.6	53.4	66.5
102.5°	0.8	1.3	14.7	38.3	48.8
105°	0.8	1.3	8.8	26.1	34.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	1.3	1.7	7.2	10.5
115°	1.3	1.3	1.7	4.6	6.7
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°	0.8	1.3	5.0	17.7	24.0
110°	1.3	1.3	2.9	10.9	16.0



(END OF REPORT)