

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: P580267

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

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580267  
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-LD4-1STD-30-UNV-O-EDD-90  
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

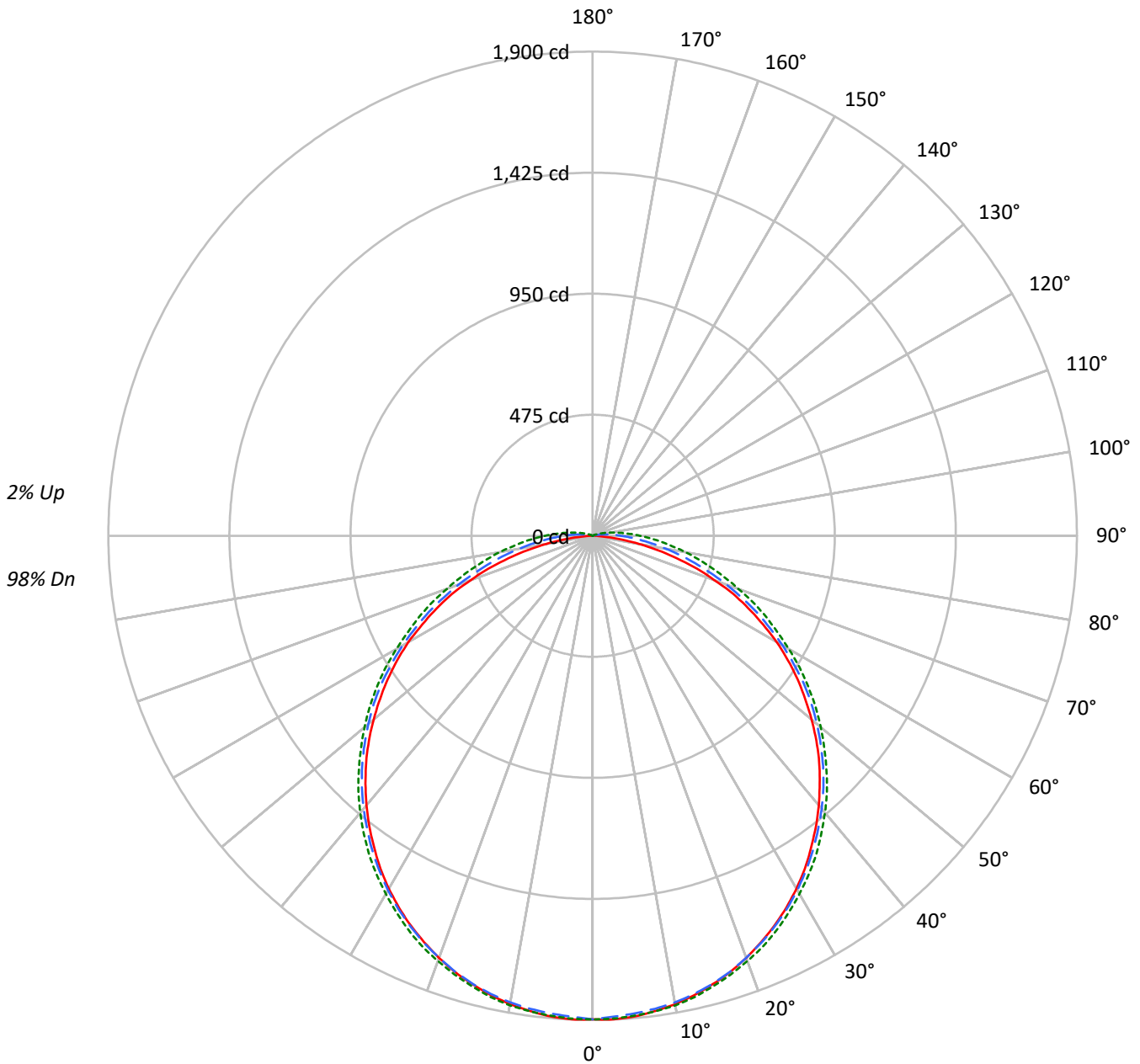
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5738.0 lumens  
Efficiency: N/A  
Efficacy: 83.0 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): 69.1  
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°	2553	2553	2553
5°	2553	2512	2517
10°	2541	2483	2484
15°	2523	2448	2440
20°	2505	2407	2397
25°	2482	2364	2353
30°	2455	2318	2300
35°	2419	2265	2248
40°	2383	2210	2185
45°	2343	2148	2116
50°	2291	2075	2041
55°	2235	1994	1956
60°	2168	1884	1855
65°	2055	1759	1758
70°	1888	1609	1642
75°	1647	1444	1546
80°	1277	1290	1474
85°	737	1151	1434



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.6	3.1
10°-20°	515.1	9.0
20°-30°	781.6	13.6
30°-40°	945.1	16.5
40°-50°	986.2	17.2
50°-60°	901.7	15.7
60°-70°	702.9	12.2
70°-80°	439.7	7.7
80°-90°	199.7	3.5
90°-100°	66.9	1.2
100°-110°	16.8	0.3
110°-120°	2.6	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°	1476.4	25.7
0°-40°	2421.5	42.2
0°-60°	4309.3	75.1
0°-90°	5651.6	98.5
90°-120°	86.4	1.5
90°-150°	86.4	1.5
90°-180°	86.0	1.5
0°-180°	5738.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1898	1898	1898	1898	1898	
5°	1894	1890	1882	1891	1891	180
15°	1822	1825	1820	1830	1830	514
25°	1688	1689	1691	1705	1708	778
35°	1494	1501	1507	1522	1529	935
45°	1257	1268	1279	1291	1297	969
55°	981	993	1011	1026	1033	876
65°	674	686	710	738	749	667
75°	341	362	415	465	482	364
85°	59	109	188	248	270	75
90°	0	41	110	166	186	2
95°	0	11	57	104	120	0
105°	1	1	9	28	37	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°	1897.8	1897.8	1897.8	1897.8	1897.8
2.5°	1900.0	1897.3	1888.8	1897.3	1896.9
5°	1893.8	1890.2	1881.7	1890.6	1890.6
7.5°	1881.2	1879.9	1872.3	1882.6	1882.6
10°	1866.5	1866.0	1859.8	1870.9	1871.4
12.5°	1845.9	1847.7	1841.9	1852.6	1853.9
15°	1821.7	1824.9	1819.9	1830.2	1829.8
17.5°	1795.3	1797.1	1793.5	1805.2	1804.7
20°	1762.7	1764.9	1762.2	1774.3	1775.6
22.5°	1726.4	1729.6	1729.1	1741.6	1745.2
25°	1688.0	1689.3	1691.1	1705.4	1708.1
27.5°	1645.5	1647.7	1650.8	1663.8	1666.5
30°	1598.9	1602.5	1606.1	1619.5	1623.1
32.5°	1549.7	1553.3	1557.8	1575.2	1577.0
35°	1494.2	1501.0	1507.2	1522.4	1528.7
37.5°	1438.8	1447.3	1453.1	1469.2	1474.1
40°	1380.2	1388.7	1398.1	1415.1	1418.2
42.5°	1318.9	1328.7	1339.9	1355.1	1360.5
45°	1257.1	1268.3	1278.6	1291.1	1297.4
47.5°	1190.5	1201.7	1214.2	1228.5	1232.5
50°	1121.6	1134.6	1148.0	1161.4	1168.6
52.5°	1050.9	1066.6	1081.8	1096.1	1102.8
55°	981.1	992.7	1011.1	1025.8	1032.6
57.5°	908.6	918.5	935.0	959.2	962.8
60°	834.8	843.8	860.8	880.4	888.5
62.5°	753.4	765.5	783.4	808.4	815.6
65°	674.2	685.8	709.5	737.7	749.4
67.5°	597.7	601.7	632.1	661.7	680.5
70°	507.3	522.5	557.9	594.1	608.4
72.5°	429.5	444.7	483.6	526.1	544.0
75°	341.4	362.4	415.2	464.8	482.3
77.5°	264.0	287.2	352.5	402.6	422.8
80°	184.3	220.6	291.7	348.1	370.0
82.5°	115.9	160.6	236.7	295.7	315.0
85°	59.1	109.2	187.5	247.8	269.8
87.5°	15.7	70.7	145.8	203.6	225.9
90°	0.4	40.7	110.5	166.0	186.1
92.5°	0.4	22.8	82.3	132.0	152.6
95°	0.4	10.7	57.3	103.8	119.9
97.5°	0.4	4.5	39.4	78.3	94.4
100°	0.4	2.2	25.1	56.8	70.7
102.5°	0.9	1.3	15.7	40.7	51.9
105°	0.9	1.3	9.4	27.7	37.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	1.3	1.8	7.6	11.2
115°	1.3	1.3	1.8	4.9	7.2
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°	0.9	1.3	5.4	18.8	25.5
110°	1.3	1.3	3.1	11.6	17.0



(END OF REPORT)