

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: P580772

Luminaire Tested: **HVSL8-4-LD4-2STD-30-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580772  
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: HVSL8-4-LD4-2STD-30-UNV-O-EDD  
Description: 4 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

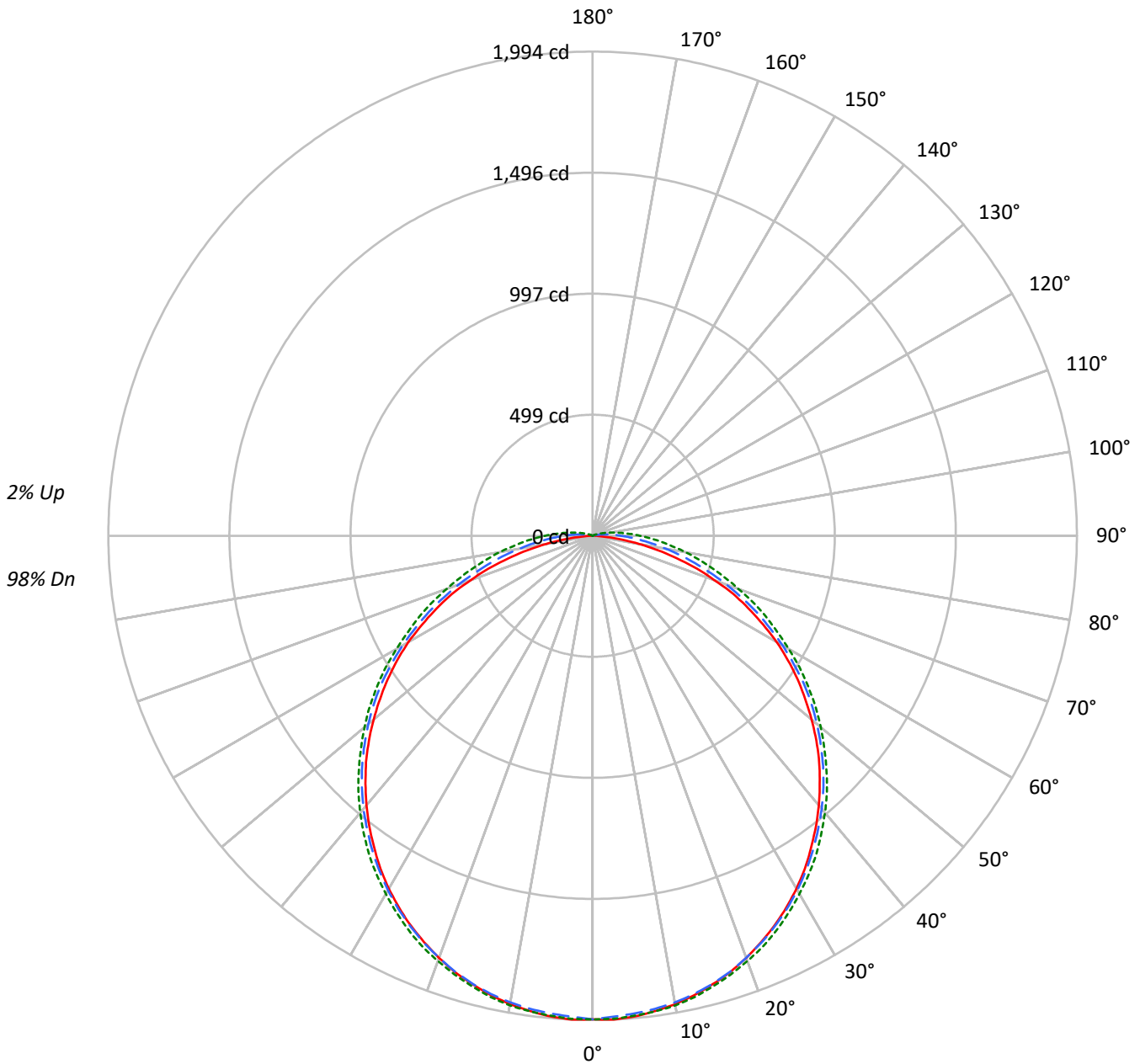
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6022.0 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 4' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 67.4  
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

TEST NUMBER: P580772

CATALOG NUMBER: HVSL8-4-LD4-2STD-30-UNV-O-EDD

### 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°	8039	8039	8039
5°	8024	7860	7868
10°	7970	7719	7710
15°	7901	7564	7521
20°	7828	7389	7337
25°	7739	7211	7150
30°	7638	7020	6938
35°	7508	6811	6728
40°	7375	6591	6483
45°	7230	6350	6218
50°	7042	6073	5933
55°	6839	5768	5620
60°	6597	5373	5253
65°	6204	4931	4889
70°	5638	4410	4467
75°	4834	3839	4083
80°	3636	3279	3733
85°	1945	2713	3398



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.5	3.1
10°-20°	540.6	9.0
20°-30°	820.3	13.6
30°-40°	991.9	16.5
40°-50°	1035.0	17.2
50°-60°	946.3	15.7
60°-70°	737.7	12.2
70°-80°	461.4	7.7
80°-90°	209.6	3.5
90°-100°	70.2	1.2
100°-110°	17.6	0.3
110°-120°	2.8	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°	1549.4	25.7
0°-40°	2541.4	42.2
0°-60°	4522.6	75.1
0°-90°	5931.3	98.5
90°-120°	90.7	1.5
90°-150°	90.7	1.5
90°-180°	91.0	1.5
0°-180°	6022.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1992	1992	1992	1992	1992	
5°	1988	1984	1975	1984	1984	189
15°	1912	1915	1910	1921	1920	540
25°	1772	1773	1775	1790	1793	816
35°	1568	1575	1582	1598	1604	982
45°	1319	1331	1342	1355	1362	1017
55°	1030	1042	1061	1077	1084	920
65°	708	720	745	774	786	700
75°	358	380	436	488	506	382
85°	62	115	197	260	283	78
90°	0	43	116	174	195	2
95°	0	11	60	109	126	0
105°	1	1	10	29	39	1
115°	1	1	2	5	8	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: P580772

CATALOG NUMBER: HVSL8-4-LD4-2STD-30-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1991.7	1991.7	1991.7	1991.7	1991.7
2.5°	1994.1	1991.2	1982.3	1991.2	1990.8
5°	1987.5	1983.7	1974.8	1984.2	1984.2
7.5°	1974.3	1972.9	1965.0	1975.8	1975.8
10°	1958.8	1958.4	1951.8	1963.5	1964.0
12.5°	1937.2	1939.1	1933.0	1944.3	1945.7
15°	1911.9	1915.2	1910.0	1920.8	1920.3
17.5°	1884.2	1886.1	1882.3	1894.5	1894.1
20°	1849.9	1852.3	1849.4	1862.1	1863.5
22.5°	1811.9	1815.2	1814.7	1827.9	1831.6
25°	1771.5	1772.9	1774.8	1789.8	1792.6
27.5°	1726.9	1729.3	1732.5	1746.2	1749.0
30°	1678.1	1681.8	1685.6	1699.7	1703.4
32.5°	1626.4	1630.2	1634.9	1653.2	1655.1
35°	1568.2	1575.2	1581.8	1597.8	1604.4
37.5°	1510.0	1518.9	1525.0	1541.9	1547.1
40°	1448.5	1457.4	1467.3	1485.1	1488.4
42.5°	1384.2	1394.5	1406.2	1422.2	1427.8
45°	1319.4	1331.1	1341.9	1355.0	1361.6
47.5°	1249.4	1261.1	1274.3	1289.3	1293.5
50°	1177.1	1190.7	1204.8	1218.9	1226.4
52.5°	1102.9	1119.3	1135.3	1150.3	1157.4
55°	1029.7	1041.9	1061.1	1076.6	1083.7
57.5°	953.6	963.9	981.3	1006.7	1010.4
60°	876.1	885.5	903.4	924.0	932.5
62.5°	790.7	803.4	822.1	848.4	855.9
65°	707.6	719.8	744.7	774.2	786.4
67.5°	627.3	631.5	663.4	694.4	714.1
70°	532.4	548.4	585.5	623.5	638.6
72.5°	450.7	466.7	507.6	552.2	570.9
75°	358.2	380.3	435.7	487.8	506.1
77.5°	277.0	301.4	370.0	422.6	443.7
80°	193.4	231.5	306.1	365.3	388.3
82.5°	121.6	168.6	248.4	310.4	330.5
85°	62.0	114.6	196.7	260.1	283.1
87.5°	16.4	74.2	153.1	213.6	237.1
90°	0.5	42.7	116.0	174.2	195.3
92.5°	0.5	23.9	86.4	138.5	160.1
95°	0.5	11.3	60.1	108.9	125.8
97.5°	0.5	4.7	41.3	82.2	99.1
100°	0.5	2.3	26.3	59.6	74.2
102.5°	0.9	1.4	16.4	42.7	54.5
105°	0.9	1.4	9.9	29.1	39.0



TEST NUMBER: P580772

CATALOG NUMBER: HVSL8-4-LD4-2STD-30-UNV-O-EDD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	1.4	1.9	8.0	11.7
115°	1.4	1.4	1.9	5.2	7.5
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	1.4	5.6	19.7	26.8
110°	1.4	1.4	3.3	12.2	17.8



(END OF REPORT)