

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: P580778

Luminaire Tested: **HVSL8-4-LD4-2STD-50-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580778  
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-50-UNV-O-EDD  
Description: 4 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

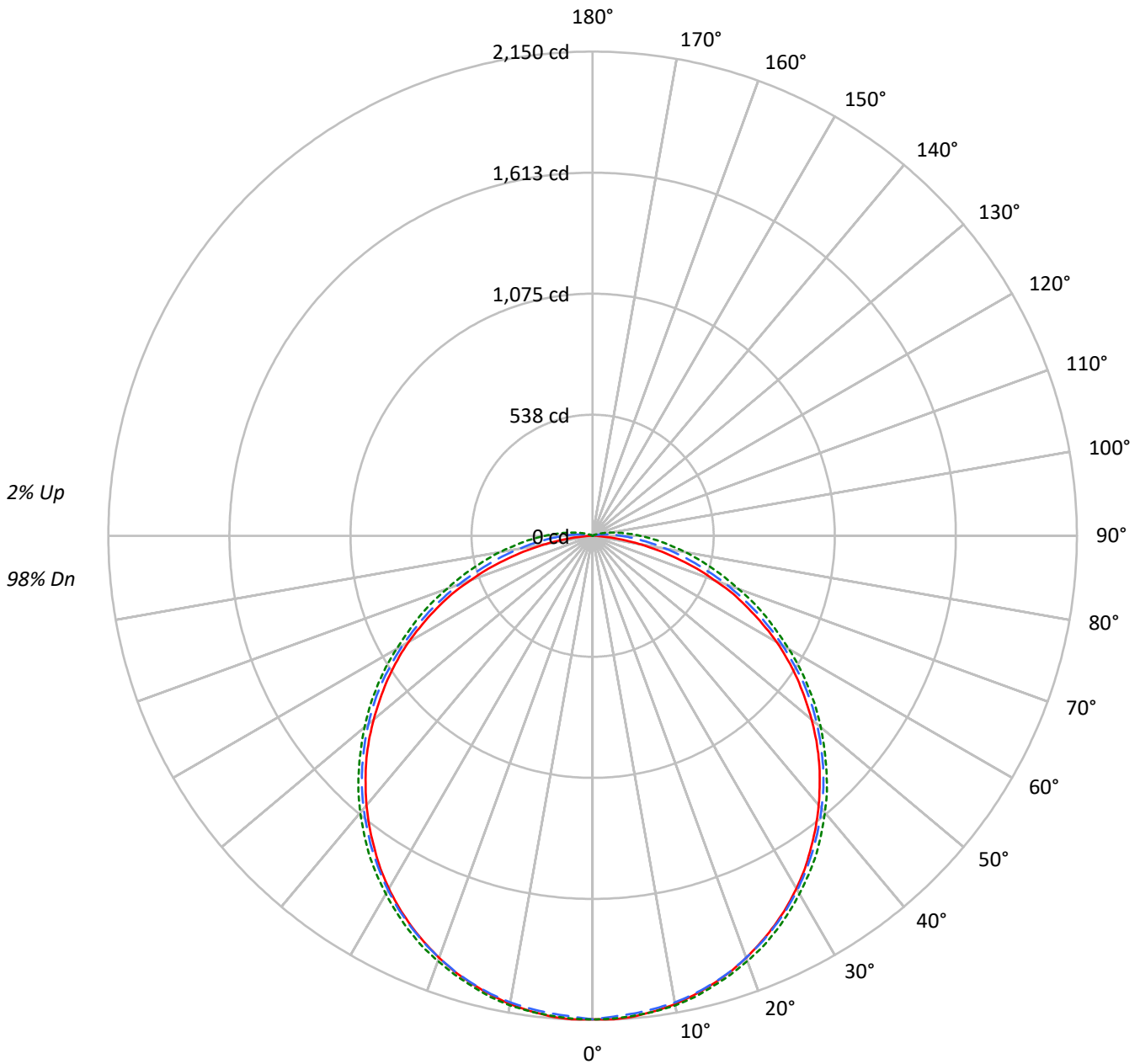
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6492.0 lumens  
Efficiency: N/A  
Efficacy: 96.3 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 (A<sub>in</sub>): 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°	8667	8667	8667
5°	8650	8473	8482
10°	8592	8321	8312
15°	8518	8154	8108
20°	8439	7966	7910
25°	8344	7774	7708
30°	8233	7568	7480
35°	8094	7343	7253
40°	7950	7105	6989
45°	7794	6846	6703
50°	7592	6547	6396
55°	7373	6218	6058
60°	7112	5793	5662
65°	6688	5316	5271
70°	6078	4755	4816
75°	5212	4139	4402
80°	3920	3535	4024
85°	2096	2925	3664



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.2	3.1
10°-20°	582.8	9.0
20°-30°	884.3	13.6
30°-40°	1069.3	16.5
40°-50°	1115.8	17.2
50°-60°	1020.1	15.7
60°-70°	795.3	12.2
70°-80°	497.5	7.7
80°-90°	225.9	3.5
90°-100°	75.7	1.2
100°-110°	19.0	0.3
110°-120°	3.0	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°	1670.4	25.7
0°-40°	2739.7	42.2
0°-60°	4875.6	75.1
0°-90°	6394.3	98.5
90°-120°	97.7	1.5
90°-150°	97.7	1.5
90°-180°	98.0	1.5
0°-180°	6492.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2147	2147	2147	2147	2147	
5°	2143	2139	2129	2139	2139	203
15°	2061	2065	2059	2071	2070	582
25°	1910	1911	1913	1930	1932	880
35°	1691	1698	1705	1722	1730	1058
45°	1422	1435	1447	1461	1468	1096
55°	1110	1123	1144	1161	1168	992
65°	763	776	803	835	848	755
75°	386	410	470	526	546	412
85°	67	124	212	280	305	85
90°	0	46	125	188	211	3
95°	0	12	65	117	136	0
105°	1	2	11	31	42	1
115°	2	2	2	6	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



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CATALOG NUMBER: HVSL8-4-LD4-2STD-50-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2147.2	2147.2	2147.2	2147.2	2147.2
2.5°	2149.7	2146.7	2137.0	2146.7	2146.1
5°	2142.6	2138.6	2128.9	2139.1	2139.1
7.5°	2128.4	2126.9	2118.3	2130.0	2130.0
10°	2111.7	2111.2	2104.1	2116.8	2117.3
12.5°	2088.4	2090.5	2083.9	2096.0	2097.6
15°	2061.1	2064.7	2059.1	2070.7	2070.2
17.5°	2031.2	2033.3	2029.2	2042.4	2041.9
20°	1994.3	1996.8	1993.8	2007.5	2009.0
22.5°	1953.3	1956.8	1956.3	1970.5	1974.6
25°	1909.8	1911.3	1913.3	1929.5	1932.5
27.5°	1861.7	1864.2	1867.8	1882.4	1885.5
30°	1809.0	1813.1	1817.1	1832.3	1836.4
32.5°	1753.4	1757.4	1762.5	1782.2	1784.2
35°	1690.6	1698.2	1705.3	1722.5	1729.6
37.5°	1627.8	1637.5	1644.0	1662.3	1667.8
40°	1561.5	1571.1	1581.8	1601.0	1604.6
42.5°	1492.2	1503.3	1516.0	1533.2	1539.3
45°	1422.3	1435.0	1446.6	1460.8	1467.9
47.5°	1346.9	1359.6	1373.7	1389.9	1394.5
50°	1269.0	1283.6	1298.8	1314.0	1322.1
52.5°	1189.0	1206.7	1223.9	1240.1	1247.7
55°	1110.0	1123.2	1143.9	1160.6	1168.2
57.5°	1028.0	1039.2	1057.9	1085.2	1089.3
60°	944.5	954.6	973.9	996.1	1005.2
62.5°	852.4	866.1	886.3	914.6	922.7
65°	762.8	776.0	802.8	834.7	847.8
67.5°	676.2	680.8	715.2	748.6	769.9
70°	574.0	591.2	631.2	672.2	688.4
72.5°	485.9	503.1	547.2	595.3	615.5
75°	386.2	410.0	469.7	525.9	545.6
77.5°	298.6	325.0	398.9	455.6	478.3
80°	208.5	249.5	330.0	393.8	418.6
82.5°	131.1	181.7	267.8	334.6	356.3
85°	66.8	123.5	212.1	280.4	305.2
87.5°	17.7	80.0	165.0	230.3	255.6
90°	0.5	46.1	125.0	187.8	210.6
92.5°	0.5	25.8	93.1	149.3	172.6
95°	0.5	12.1	64.8	117.4	135.7
97.5°	0.5	5.1	44.5	88.6	106.8
100°	0.5	2.5	28.3	64.3	80.0
102.5°	1.0	1.5	17.7	46.1	58.7
105°	1.0	1.5	10.6	31.4	42.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	1.5	2.0	8.6	12.7
115°	1.5	1.5	2.0	5.6	8.1
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°	1.0	1.5	6.1	21.3	28.9
110°	1.5	1.5	3.5	13.2	19.2



(END OF REPORT)