

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: P580824

Luminaire Tested: **HVSL8-8-LD4-1STD-40-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580824  
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: HVSL8-8-LD4-1STD-40-UNV-O-EDD  
Description: 8 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

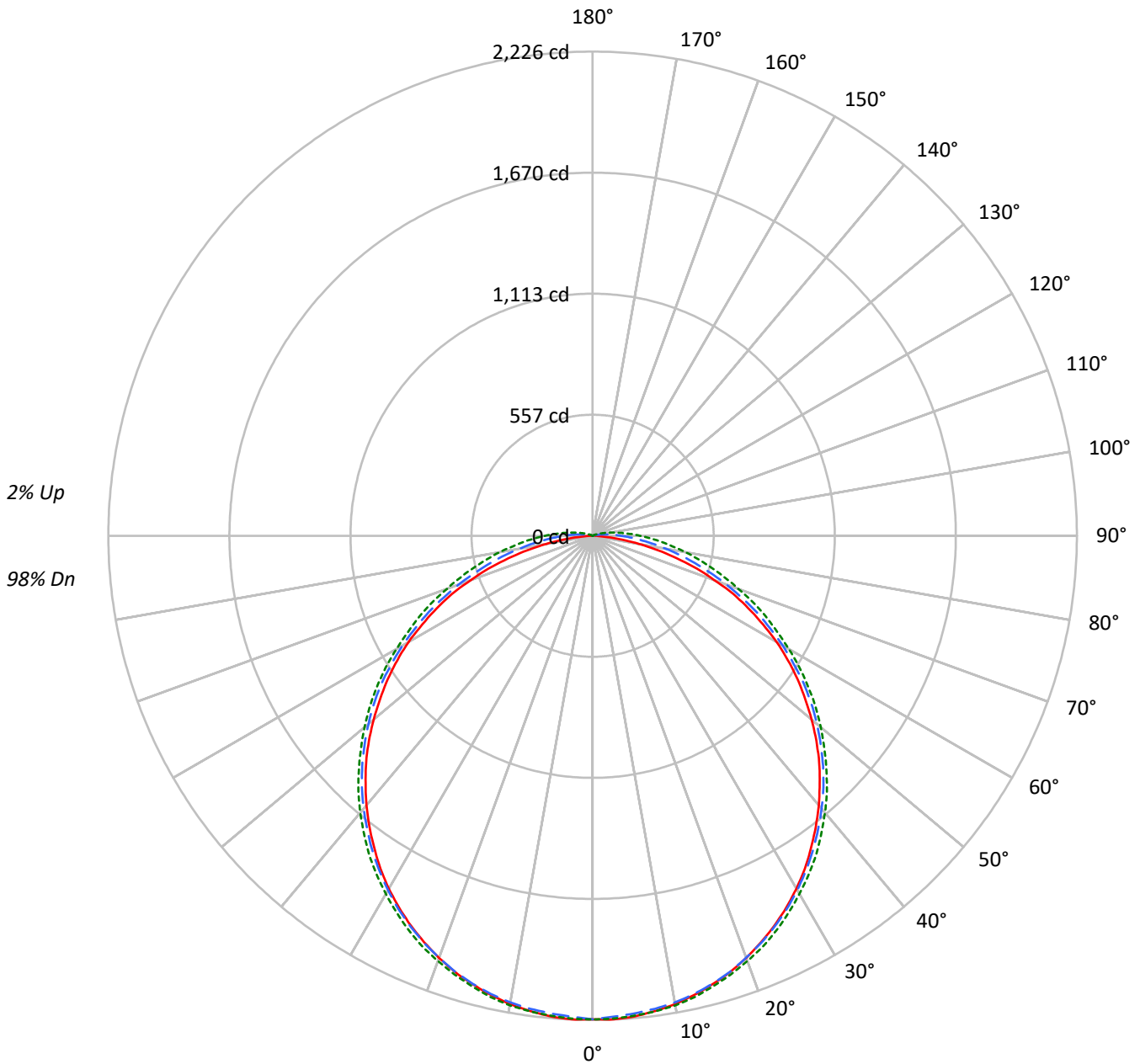
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6722.0 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 67.2  
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°	4487	4487	4487
5°	4486	4392	4391
10°	4465	4319	4303
15°	4434	4237	4198
20°	4402	4145	4095
25°	4361	4050	3991
30°	4313	3948	3872
35°	4251	3836	3755
40°	4186	3717	3618
45°	4118	3588	3470
50°	4025	3438	3311
55°	3927	3273	3136
60°	3810	3056	2932
65°	3610	2814	2729
70°	3317	2527	2493
75°	2893	2212	2279
80°	2244	1904	2083
85°	1294	1594	1897



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.4	3.1
10°-20°	603.5	9.0
20°-30°	915.7	13.6
30°-40°	1107.2	16.5
40°-50°	1155.3	17.2
50°-60°	1056.3	15.7
60°-70°	823.4	12.2
70°-80°	515.1	7.7
80°-90°	234.0	3.5
90°-100°	78.4	1.2
100°-110°	19.7	0.3
110°-120°	3.1	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°	1729.5	25.7
0°-40°	2836.8	42.2
0°-60°	5048.3	75.1
0°-90°	6620.8	98.5
90°-120°	101.2	1.5
90°-150°	101.2	1.5
90°-180°	101.0	1.5
0°-180°	6722.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2223	2223	2223	2223	2223	
5°	2218	2214	2204	2215	2215	211
15°	2134	2138	2132	2144	2144	602
25°	1977	1979	1981	1998	2001	911
35°	1750	1758	1766	1784	1791	1096
45°	1473	1486	1498	1513	1520	1135
55°	1149	1163	1184	1202	1210	1027
65°	790	803	831	864	878	781
75°	400	424	486	544	565	426
85°	69	128	220	290	316	88
90°	0	48	130	194	218	3
95°	0	13	67	122	140	0
105°	1	2	11	32	44	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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2223.2	2223.2	2223.2	2223.2	2223.2
2.5°	2225.9	2222.7	2212.7	2222.7	2222.2
5°	2218.5	2214.3	2204.4	2214.8	2214.8
7.5°	2203.8	2202.3	2193.4	2205.4	2205.4
10°	2186.5	2186.0	2178.7	2191.8	2192.3
12.5°	2162.4	2164.5	2157.7	2170.3	2171.9
15°	2134.1	2137.8	2132.0	2144.1	2143.6
17.5°	2103.2	2105.3	2101.1	2114.7	2114.2
20°	2065.0	2067.6	2064.4	2078.6	2080.2
22.5°	2022.5	2026.2	2025.6	2040.3	2044.5
25°	1977.4	1979.0	1981.1	1997.9	2001.0
27.5°	1927.6	1930.3	1933.9	1949.1	1952.3
30°	1873.1	1877.3	1881.5	1897.2	1901.4
32.5°	1815.5	1819.7	1824.9	1845.4	1847.5
35°	1750.5	1758.4	1765.7	1783.5	1790.8
37.5°	1685.5	1695.5	1702.3	1721.1	1726.9
40°	1616.8	1626.8	1637.8	1657.7	1661.4
42.5°	1545.0	1556.6	1569.7	1587.5	1593.8
45°	1472.7	1485.8	1497.9	1512.6	1519.9
47.5°	1394.6	1407.7	1422.4	1439.2	1443.9
50°	1313.9	1329.1	1344.8	1360.6	1368.9
52.5°	1231.1	1249.5	1267.3	1284.0	1291.9
55°	1149.4	1163.0	1184.5	1201.8	1209.6
57.5°	1064.4	1076.0	1095.4	1123.7	1127.9
60°	978.0	988.5	1008.4	1031.4	1040.9
62.5°	882.6	896.7	917.7	947.0	955.4
65°	789.8	803.4	831.2	864.2	877.9
67.5°	700.2	704.9	740.6	775.1	797.2
70°	594.3	612.1	653.6	696.0	712.8
72.5°	503.1	521.0	566.6	616.3	637.3
75°	399.9	424.5	486.4	544.5	565.0
77.5°	309.2	336.5	413.0	471.7	495.3
80°	215.9	258.4	341.7	407.7	433.4
82.5°	135.7	188.2	277.2	346.4	369.0
85°	69.2	127.9	219.6	290.4	316.0
87.5°	18.3	82.8	170.9	238.5	264.7
90°	0.5	47.7	129.5	194.4	218.0
92.5°	0.5	26.7	96.4	154.6	178.7
95°	0.5	12.6	67.1	121.6	140.5
97.5°	0.5	5.2	46.1	91.7	110.6
100°	0.5	2.6	29.3	66.6	82.8
102.5°	1.0	1.6	18.3	47.7	60.8
105°	1.0	1.6	11.0	32.5	43.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	1.6	2.1	8.9	13.1
115°	1.6	1.6	2.1	5.8	8.4
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	1.6	6.3	22.0	29.9
110°	1.6	1.6	3.7	13.6	19.9



(END OF REPORT)