

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: P580726

Luminaire Tested: **HVSL8-2-LD4-3STD-35-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580726  
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: HVSL8-2-LD4-3STD-35-UNV-O-EDD  
Description: 2 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

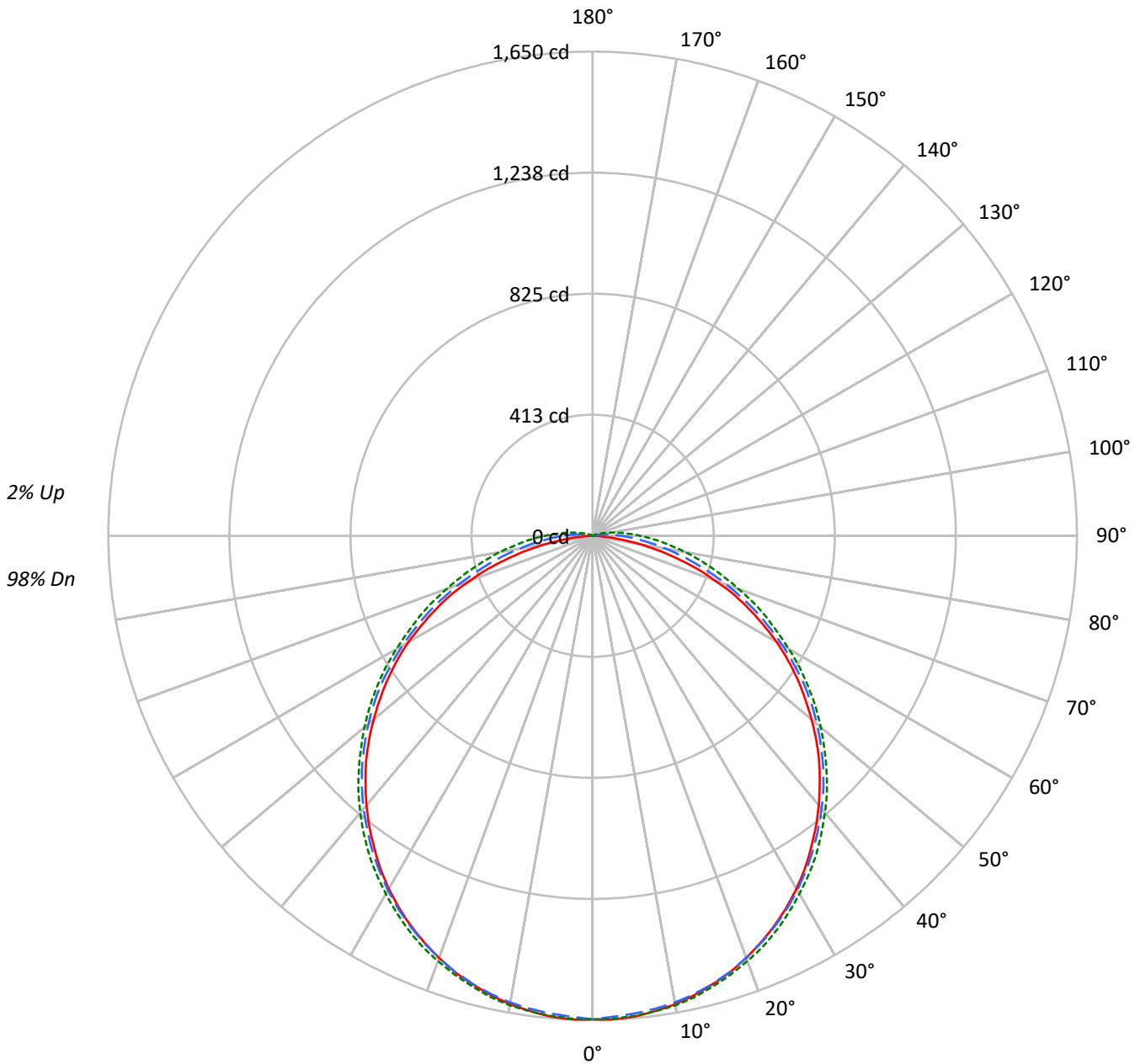
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4983.0 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 2' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 49.2  
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°	13305	13305	13305
5°	13231	12975	13021
10°	13095	12711	12760
15°	12933	12425	12446
20°	12763	12109	12142
25°	12569	11786	11833
30°	12349	11444	11482
35°	12083	11072	11134
40°	11806	10682	10728
45°	11505	10259	10290
50°	11127	9774	9819
55°	10716	9245	9300
60°	10229	8570	8693
65°	9488	7818	8092
70°	8462	6941	7393
75°	7052	5982	6757
80°	5054	5039	6177
85°	2433	4081	5625



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.0	3.1
10°-20°	447.4	9.0
20°-30°	678.8	13.6
30°-40°	820.8	16.5
40°-50°	856.4	17.2
50°-60°	783.0	15.7
60°-70°	610.4	12.2
70°-80°	381.8	7.7
80°-90°	173.4	3.5
90°-100°	58.1	1.2
100°-110°	14.6	0.3
110°-120°	2.3	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°	1282.1	25.7
0°-40°	2102.9	42.2
0°-60°	3742.3	75.1
0°-90°	4908.0	98.5
90°-120°	75.0	1.5
90°-150°	75.0	1.5
90°-180°	75.0	1.5
0°-180°	4983.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1648	1648	1648	1648	1648	
5°	1645	1642	1634	1642	1642	156
15°	1582	1585	1580	1589	1589	447
25°	1466	1467	1469	1481	1483	675
35°	1298	1304	1309	1322	1328	812
45°	1092	1101	1110	1121	1127	841
55°	852	862	878	891	897	761
65°	586	596	616	641	651	579
75°	296	315	360	404	419	316
85°	51	95	163	215	234	65
90°	0	35	96	144	162	2
95°	0	9	50	90	104	0
105°	1	1	8	24	32	1
115°	1	1	2	4	6	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°	1648.1	1648.1	1648.1	1648.1	1648.1
2.5°	1650.0	1647.7	1640.3	1647.7	1647.3
5°	1644.6	1641.5	1634.1	1641.9	1641.9
7.5°	1633.7	1632.5	1625.9	1634.9	1634.9
10°	1620.9	1620.5	1615.1	1624.8	1625.2
12.5°	1603.0	1604.6	1599.5	1608.8	1610.0
15°	1582.0	1584.7	1580.5	1589.4	1589.0
17.5°	1559.1	1560.7	1557.6	1567.7	1567.3
20°	1530.7	1532.7	1530.4	1540.8	1542.0
22.5°	1499.3	1502.0	1501.6	1512.5	1515.6
25°	1465.9	1467.0	1468.6	1481.0	1483.3
27.5°	1429.0	1430.9	1433.6	1444.9	1447.2
30°	1388.5	1391.7	1394.8	1406.4	1409.5
32.5°	1345.8	1348.9	1352.8	1368.0	1369.5
35°	1297.6	1303.5	1308.9	1322.1	1327.6
37.5°	1249.5	1256.8	1261.9	1275.9	1280.2
40°	1198.6	1205.9	1214.1	1228.9	1231.6
42.5°	1145.3	1153.9	1163.6	1176.8	1181.5
45°	1091.7	1101.4	1110.4	1121.3	1126.7
47.5°	1033.8	1043.5	1054.4	1066.9	1070.4
50°	974.0	985.3	996.9	1008.6	1014.8
52.5°	912.6	926.2	939.4	951.9	957.7
55°	852.0	862.1	878.0	890.9	896.7
57.5°	789.1	797.6	812.0	833.0	836.1
60°	725.0	732.7	747.5	764.6	771.6
62.5°	654.3	664.7	680.3	702.0	708.3
65°	585.5	595.6	616.2	640.7	650.8
67.5°	519.1	522.6	549.0	574.6	590.9
70°	440.6	453.8	484.5	515.9	528.4
72.5°	373.0	386.2	420.0	456.9	472.4
75°	296.4	314.7	360.5	403.7	418.8
77.5°	229.2	249.4	306.1	349.7	367.1
80°	160.1	191.5	253.3	302.3	321.3
82.5°	100.6	139.5	205.5	256.8	273.5
85°	51.3	94.8	162.8	215.2	234.3
87.5°	13.6	61.4	126.7	176.8	196.2
90°	0.4	35.4	96.0	144.1	161.6
92.5°	0.4	19.8	71.5	114.6	132.5
95°	0.4	9.3	49.7	90.1	104.1
97.5°	0.4	3.9	34.2	68.0	82.0
100°	0.4	1.9	21.8	49.3	61.4
102.5°	0.8	1.2	13.6	35.4	45.1
105°	0.8	1.2	8.2	24.1	32.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	1.2	1.6	6.6	9.7
115°	1.2	1.2	1.6	4.3	6.2
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°	0.8	1.2	4.7	16.3	22.1
110°	1.2	1.2	2.7	10.1	14.8



(END OF REPORT)