

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: P580174

Luminaire Tested: **HVSL12-2-LD4-3STD-35-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580174  
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: HVSL12-2-LD4-3STD-35-UNV-O-EDD  
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

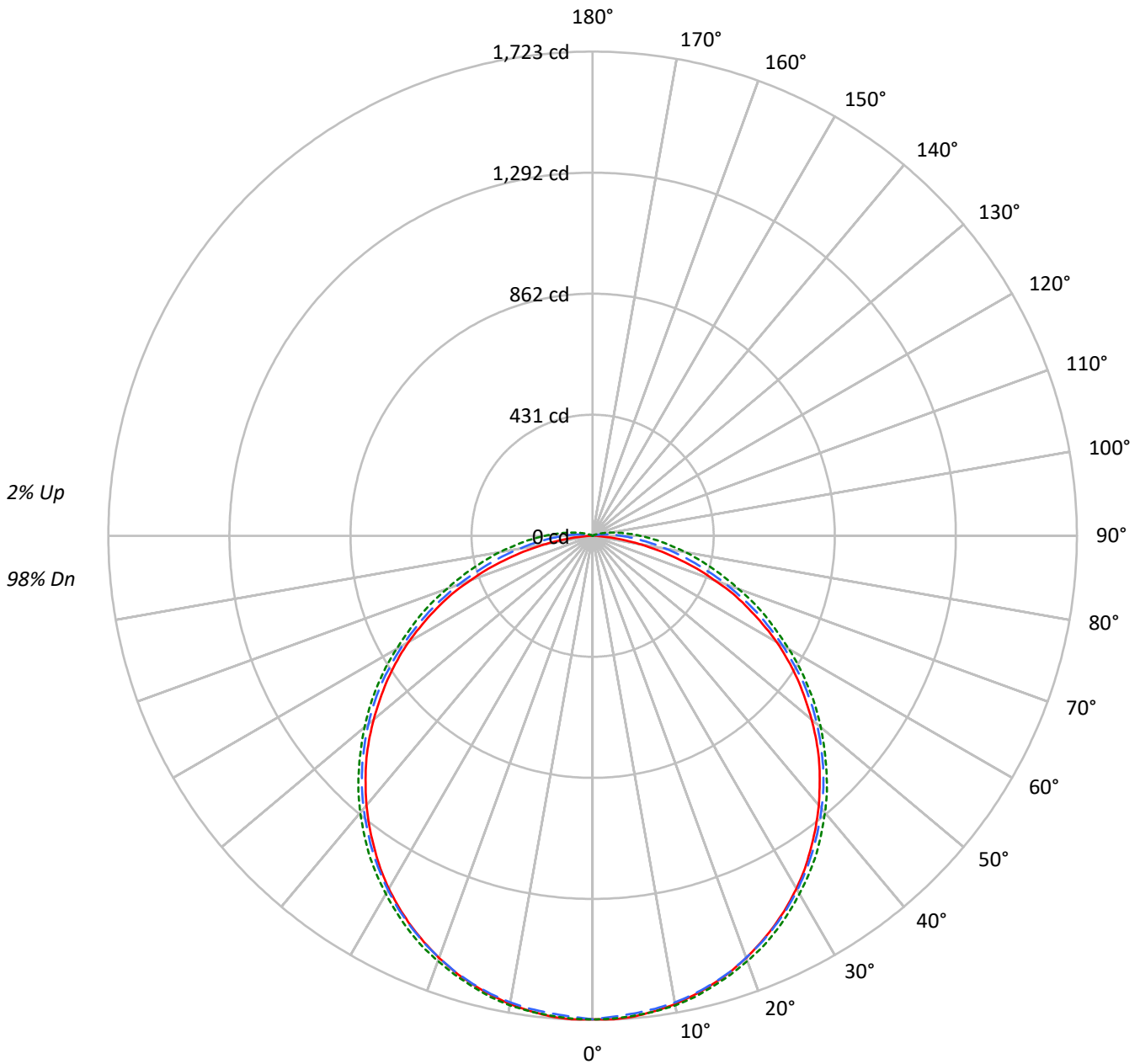
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5203.0 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 50.6  
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°	9261	9261	9261
5°	9210	9077	9128
10°	9115	8938	9009
15°	9003	8779	8849
20°	8885	8598	8694
25°	8749	8412	8534
30°	8597	8212	8344
35°	8411	7990	8156
40°	8218	7756	7926
45°	8009	7499	7675
50°	7746	7198	7401
55°	7459	6868	7096
60°	7120	6432	6729
65°	6604	5941	6374
70°	5890	5358	5954
75°	4909	4717	5606
80°	3517	4093	5345
85°	1692	3475	5199



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.8	3.1
10°-20°	467.1	9.0
20°-30°	708.8	13.6
30°-40°	857.0	16.5
40°-50°	894.2	17.2
50°-60°	817.6	15.7
60°-70°	637.3	12.2
70°-80°	398.7	7.7
80°-90°	181.1	3.5
90°-100°	60.7	1.2
100°-110°	15.2	0.3
110°-120°	2.4	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°	1338.7	25.7
0°-40°	2195.7	42.2
0°-60°	3907.5	75.1
0°-90°	5124.7	98.5
90°-120°	78.3	1.5
90°-150°	78.3	1.5
90°-180°	78.0	1.5
0°-180°	5203.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1721	1721	1721	1721	1721	
5°	1717	1714	1706	1714	1714	163
15°	1652	1655	1650	1660	1659	466
25°	1531	1532	1533	1546	1549	705
35°	1355	1361	1367	1380	1386	848
45°	1140	1150	1159	1171	1176	878
55°	890	900	917	930	936	795
65°	611	622	643	669	680	605
75°	310	329	376	422	437	330
85°	54	99	170	225	245	68
90°	0	37	100	150	169	2
95°	0	10	52	94	109	0
105°	1	1	8	25	34	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°	1720.8	1720.8	1720.8	1720.8	1720.8
2.5°	1722.9	1720.4	1712.7	1720.4	1720.0
5°	1717.2	1713.9	1706.2	1714.3	1714.3
7.5°	1705.8	1704.6	1697.7	1707.0	1707.0
10°	1692.4	1692.0	1686.4	1696.5	1696.9
12.5°	1673.8	1675.4	1670.1	1679.9	1681.1
15°	1651.9	1654.7	1650.3	1659.6	1659.2
17.5°	1627.9	1629.6	1626.3	1636.9	1636.5
20°	1598.3	1600.4	1597.9	1608.9	1610.1
22.5°	1565.5	1568.3	1567.9	1579.3	1582.5
25°	1530.6	1531.8	1533.4	1546.4	1548.8
27.5°	1492.0	1494.1	1496.9	1508.7	1511.1
30°	1449.9	1453.1	1456.3	1468.5	1471.8
32.5°	1405.2	1408.5	1412.5	1428.4	1430.0
35°	1354.9	1361.0	1366.7	1380.5	1386.2
37.5°	1304.6	1312.3	1317.6	1332.2	1336.7
40°	1251.5	1259.2	1267.7	1283.1	1286.0
42.5°	1195.9	1204.8	1215.0	1228.8	1233.6
45°	1139.9	1150.1	1159.4	1170.8	1176.4
47.5°	1079.5	1089.6	1101.0	1114.0	1117.6
50°	1017.0	1028.8	1040.9	1053.1	1059.6
52.5°	952.9	967.1	980.9	993.9	1000.0
55°	889.6	900.2	916.8	930.2	936.3
57.5°	823.9	832.8	847.8	869.7	873.0
60°	757.0	765.1	780.5	798.4	805.7
62.5°	683.1	694.1	710.3	733.0	739.5
65°	611.3	621.9	643.4	668.9	679.5
67.5°	542.0	545.6	573.2	600.0	617.0
70°	460.0	473.8	505.9	538.7	551.7
72.5°	389.4	403.2	438.5	477.1	493.3
75°	309.5	328.6	376.5	421.5	437.3
77.5°	239.3	260.4	319.7	365.1	383.4
80°	167.1	200.0	264.5	315.6	335.5
82.5°	105.1	145.6	214.6	268.1	285.6
85°	53.5	99.0	170.0	224.7	244.6
87.5°	14.2	64.1	132.2	184.6	204.9
90°	0.4	36.9	100.2	150.5	168.8
92.5°	0.4	20.7	74.6	119.7	138.3
95°	0.4	9.7	51.9	94.1	108.7
97.5°	0.4	4.1	35.7	71.0	85.6
100°	0.4	2.0	22.7	51.5	64.1
102.5°	0.8	1.2	14.2	36.9	47.1
105°	0.8	1.2	8.5	25.2	33.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	1.2	1.6	6.9	10.1
115°	1.2	1.2	1.6	4.5	6.5
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°	0.8	1.2	4.9	17.0	23.1
110°	1.2	1.2	2.8	10.5	15.4



(END OF REPORT)