

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: P580263

Luminaire Tested: **HVSL12-8-LD4-1LO-40-UNV-O-EDD-90**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580263  
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: HVSL12-8-LD4-1LO-40-UNV-O-EDD-90  
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

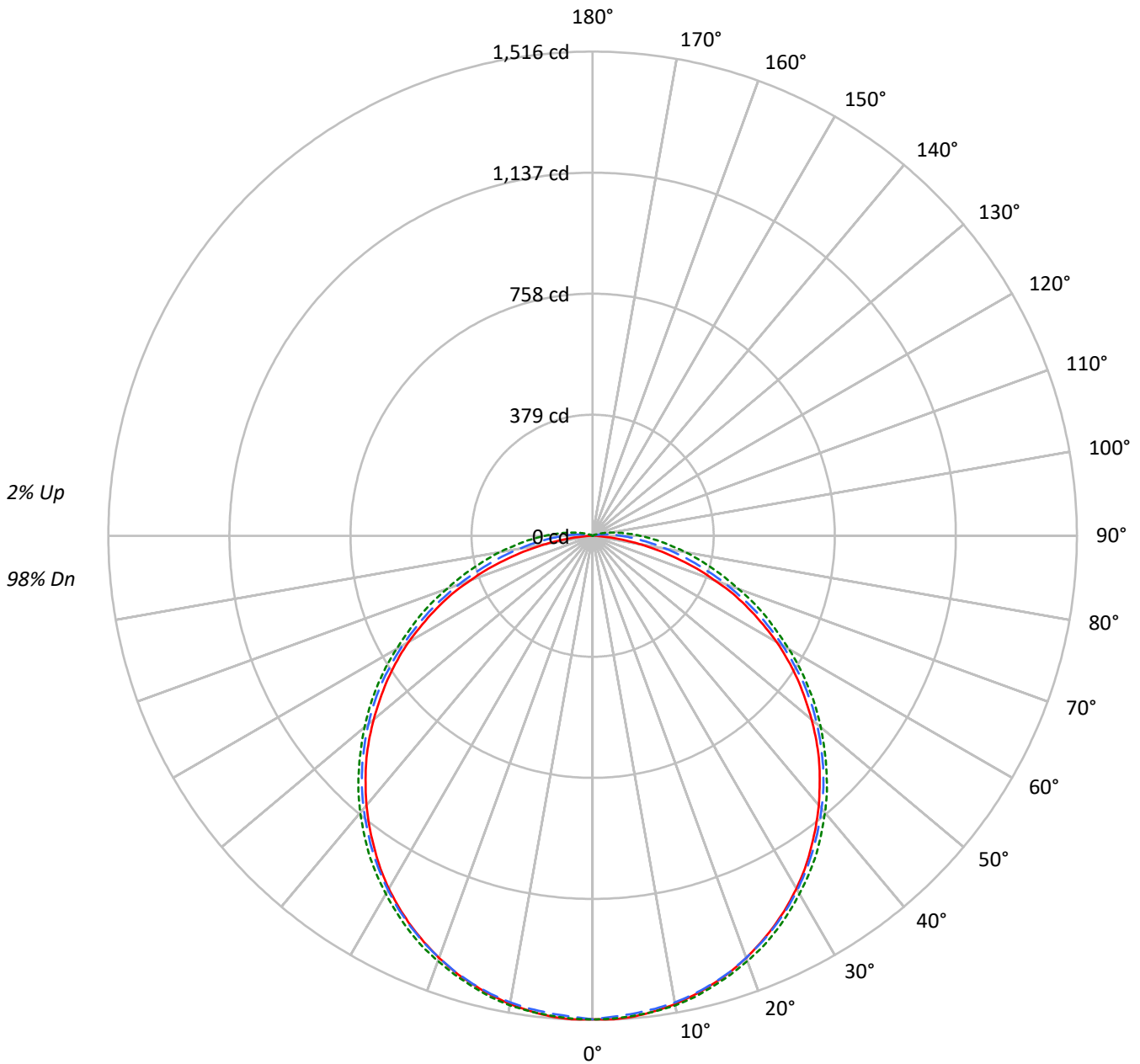
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4578.0 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 48.7  
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°	2037	2037	2037
5°	2037	2004	2008
10°	2027	1981	1982
15°	2013	1953	1947
20°	1998	1920	1912
25°	1980	1886	1877
30°	1958	1849	1835
35°	1930	1807	1794
40°	1901	1763	1744
45°	1870	1714	1688
50°	1828	1656	1628
55°	1783	1591	1561
60°	1730	1503	1480
65°	1639	1403	1402
70°	1506	1283	1310
75°	1313	1152	1233
80°	1019	1029	1176
85°	587	918	1143



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.3	3.1
10°-20°	411.0	9.0
20°-30°	623.6	13.6
30°-40°	754.1	16.5
40°-50°	786.8	17.2
50°-60°	719.4	15.7
60°-70°	560.8	12.2
70°-80°	350.8	7.7
80°-90°	159.3	3.5
90°-100°	53.4	1.2
100°-110°	13.4	0.3
110°-120°	2.1	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°	1177.9	25.7
0°-40°	1932.0	42.2
0°-60°	3438.1	75.1
0°-90°	4509.1	98.5
90°-120°	68.9	1.5
90°-150°	68.9	1.5
90°-180°	69.0	1.5
0°-180°	4578.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1514	1514	1514	1514	1514	
5°	1511	1508	1501	1508	1508	143
15°	1453	1456	1452	1460	1460	410
25°	1347	1348	1349	1361	1363	621
35°	1192	1198	1202	1215	1220	746
45°	1003	1012	1020	1030	1035	773
55°	783	792	807	818	824	699
65°	538	547	566	589	598	532
75°	272	289	331	371	385	290
85°	47	87	150	198	215	60
90°	0	32	88	132	148	2
95°	0	9	46	83	96	0
105°	1	1	8	22	30	1
115°	1	1	1	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°	1514.1	1514.1	1514.1	1514.1	1514.1
2.5°	1515.9	1513.8	1507.0	1513.8	1513.4
5°	1510.9	1508.1	1501.3	1508.4	1508.4
7.5°	1500.9	1499.8	1493.8	1502.0	1502.0
10°	1489.1	1488.8	1483.8	1492.7	1493.1
12.5°	1472.7	1474.1	1469.5	1478.1	1479.1
15°	1453.4	1455.9	1452.0	1460.2	1459.9
17.5°	1432.4	1433.8	1431.0	1440.2	1439.9
20°	1406.3	1408.1	1406.0	1415.6	1416.7
22.5°	1377.4	1379.9	1379.6	1389.6	1392.4
25°	1346.7	1347.8	1349.2	1360.6	1362.8
27.5°	1312.8	1314.6	1317.1	1327.4	1329.6
30°	1275.7	1278.5	1281.4	1292.1	1295.0
32.5°	1236.4	1239.3	1242.9	1256.8	1258.2
35°	1192.2	1197.5	1202.5	1214.7	1219.7
37.5°	1147.9	1154.7	1159.3	1172.2	1176.1
40°	1101.1	1107.9	1115.4	1129.0	1131.5
42.5°	1052.2	1060.1	1069.0	1081.2	1085.4
45°	1003.0	1011.9	1020.1	1030.1	1035.1
47.5°	949.8	958.7	968.7	980.1	983.4
50°	894.8	905.2	915.9	926.6	932.3
52.5°	838.4	850.9	863.1	874.5	879.8
55°	782.8	792.0	806.7	818.5	823.8
57.5°	724.9	732.8	746.0	765.3	768.1
60°	666.0	673.2	686.7	702.5	708.9
62.5°	601.1	610.7	625.0	645.0	650.7
65°	537.9	547.2	566.1	588.6	597.9
67.5°	476.9	480.1	504.4	527.9	542.9
70°	404.8	416.9	445.1	474.0	485.4
72.5°	342.7	354.8	385.8	419.8	434.0
75°	272.3	289.1	331.2	370.9	384.8
77.5°	210.6	229.2	281.3	321.2	337.3
80°	147.1	176.0	232.7	277.7	295.2
82.5°	92.4	128.1	188.8	235.9	251.3
85°	47.1	87.1	149.6	197.7	215.2
87.5°	12.5	56.4	116.4	162.4	180.3
90°	0.4	32.5	88.2	132.4	148.5
92.5°	0.4	18.2	65.7	105.3	121.7
95°	0.4	8.6	45.7	82.8	95.7
97.5°	0.4	3.6	31.4	62.5	75.3
100°	0.4	1.8	20.0	45.3	56.4
102.5°	0.7	1.1	12.5	32.5	41.4
105°	0.7	1.1	7.5	22.1	29.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	1.1	1.4	6.1	8.9
115°	1.1	1.1	1.4	3.9	5.7
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°	0.7	1.1	4.3	15.0	20.3
110°	1.1	1.1	2.5	9.3	13.6



(END OF REPORT)