

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: P580769

Luminaire Tested: **HVSL8-4-LD4-2LO-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580769  
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-LD4-2LO-50-UNV-O-EDD-90  
Description: 4 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

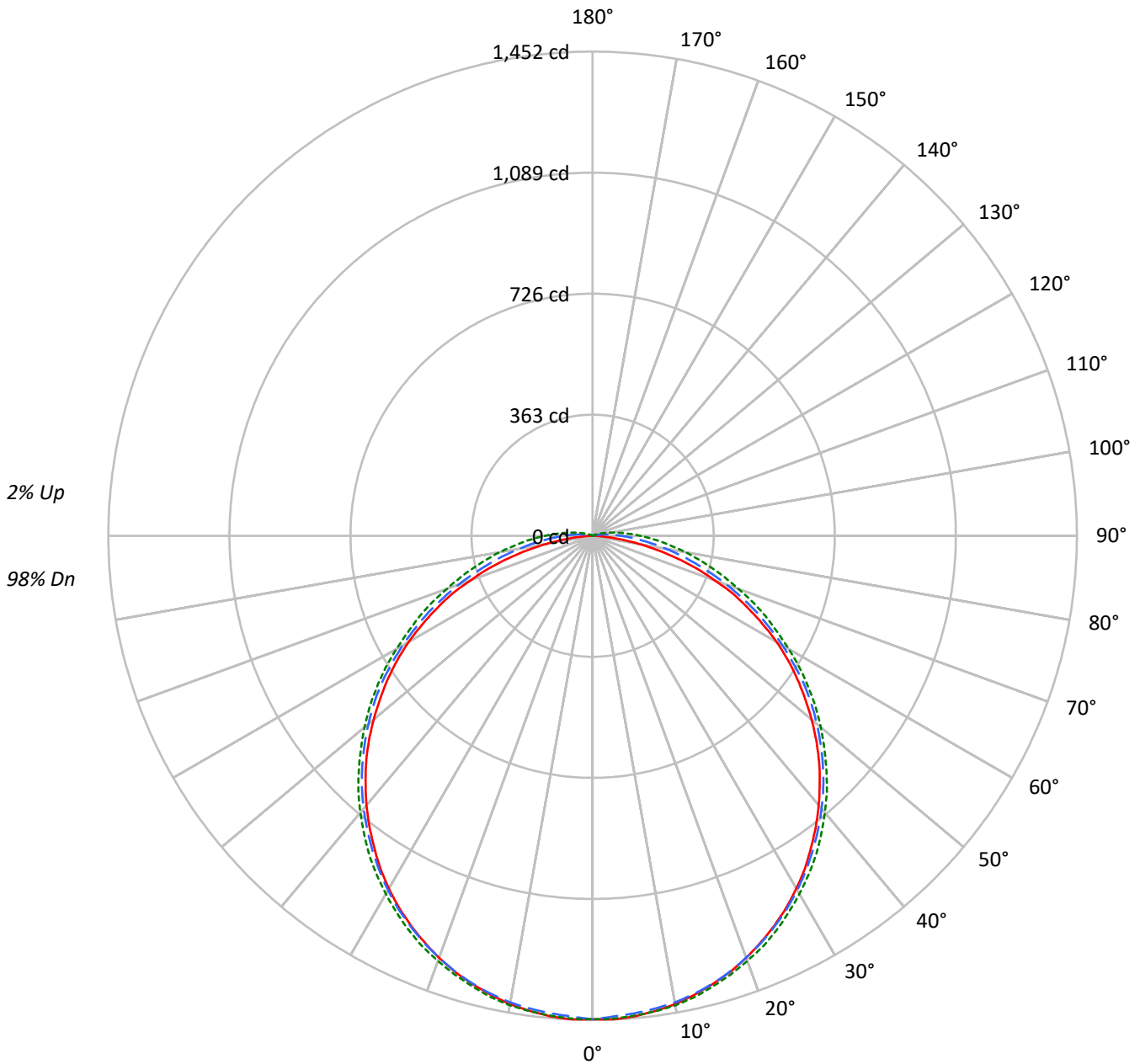
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4384.0 lumens  
Efficiency: N/A  
Efficacy: 92.3 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): 47.5  
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°	5853	5853	5853
5°	5841	5722	5728
10°	5802	5619	5613
15°	5752	5506	5475
20°	5698	5380	5341
25°	5635	5249	5205
30°	5560	5111	5051
35°	5466	4958	4898
40°	5369	4798	4719
45°	5264	4623	4527
50°	5126	4421	4319
55°	4979	4199	4091
60°	4802	3911	3824
65°	4516	3590	3559
70°	4104	3210	3252
75°	3520	2795	2973
80°	2647	2388	2718
85°	1415	1975	2474



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.2	3.1
10°-20°	393.6	9.0
20°-30°	597.2	13.6
30°-40°	722.1	16.5
40°-50°	753.5	17.2
50°-60°	688.9	15.7
60°-70°	537.0	12.2
70°-80°	335.9	7.7
80°-90°	152.6	3.5
90°-100°	51.1	1.2
100°-110°	12.8	0.3
110°-120°	2.0	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°	1128.0	25.7
0°-40°	1850.1	42.2
0°-60°	3292.5	75.1
0°-90°	4318.0	98.5
90°-120°	66.0	1.5
90°-150°	66.0	1.5
90°-180°	66.0	1.5
0°-180°	4384.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1450	1450	1450	1450	1450	
5°	1447	1444	1438	1444	1444	137
15°	1392	1394	1390	1398	1398	393
25°	1290	1291	1292	1303	1305	594
35°	1142	1147	1152	1163	1168	715
45°	960	969	977	986	991	740
55°	750	758	772	784	789	670
65°	515	524	542	564	572	510
75°	261	277	317	355	368	278
85°	45	83	143	189	206	57
90°	0	31	84	127	142	2
95°	0	8	44	79	92	0
105°	1	1	7	21	28	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°	1450.0	1450.0	1450.0	1450.0	1450.0
2.5°	1451.7	1449.6	1443.1	1449.6	1449.3
5°	1446.9	1444.2	1437.7	1444.5	1444.5
7.5°	1437.3	1436.3	1430.5	1438.3	1438.3
10°	1426.0	1425.7	1420.9	1429.5	1429.8
12.5°	1410.3	1411.7	1407.2	1415.4	1416.5
15°	1391.9	1394.2	1390.5	1398.3	1398.0
17.5°	1371.7	1373.1	1370.3	1379.2	1378.9
20°	1346.7	1348.4	1346.4	1355.6	1356.6
22.5°	1319.0	1321.4	1321.1	1330.7	1333.4
25°	1289.7	1290.7	1292.0	1303.0	1305.0
27.5°	1257.2	1258.9	1261.3	1271.2	1273.2
30°	1221.6	1224.4	1227.1	1237.4	1240.1
32.5°	1184.0	1186.8	1190.2	1203.5	1204.9
35°	1141.6	1146.8	1151.6	1163.2	1168.0
37.5°	1099.3	1105.8	1110.2	1122.5	1126.3
40°	1054.5	1061.0	1068.2	1081.1	1083.5
42.5°	1007.7	1015.2	1023.7	1035.3	1039.4
45°	960.5	969.0	976.9	986.5	991.3
47.5°	909.6	918.1	927.7	938.6	941.7
50°	856.9	866.8	877.1	887.3	892.8
52.5°	802.9	814.9	826.5	837.4	842.6
55°	749.6	758.5	772.5	783.8	788.9
57.5°	694.2	701.7	714.4	732.8	735.6
60°	637.8	644.7	657.6	672.7	678.8
62.5°	575.6	584.8	598.5	617.7	623.1
65°	515.1	524.0	542.1	563.6	572.5
67.5°	456.7	459.7	483.0	505.5	519.9
70°	387.6	399.2	426.2	453.9	464.9
72.5°	328.1	339.8	369.5	402.0	415.6
75°	260.8	276.9	317.2	355.1	368.5
77.5°	201.7	219.4	269.3	307.6	323.0
80°	140.8	168.5	222.9	265.9	282.7
82.5°	88.5	122.7	180.8	225.9	240.6
85°	45.1	83.4	143.2	189.4	206.1
87.5°	12.0	54.0	111.4	155.5	172.6
90°	0.3	31.1	84.4	126.8	142.2
92.5°	0.3	17.4	62.9	100.8	116.6
95°	0.3	8.2	43.8	79.3	91.6
97.5°	0.3	3.4	30.1	59.8	72.1
100°	0.3	1.7	19.1	43.4	54.0
102.5°	0.7	1.0	12.0	31.1	39.7
105°	0.7	1.0	7.2	21.2	28.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	1.0	1.4	5.8	8.5
115°	1.0	1.0	1.4	3.8	5.5
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°	0.7	1.0	4.1	14.4	19.5
110°	1.0	1.0	2.4	8.9	13.0



(END OF REPORT)