

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: P580354

Luminaire Tested: **HVSL2-3-LD4-HI-50-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580354  
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: HVSL2-3-LD4-HI-50-UNV-O-EDD  
Description: 3 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

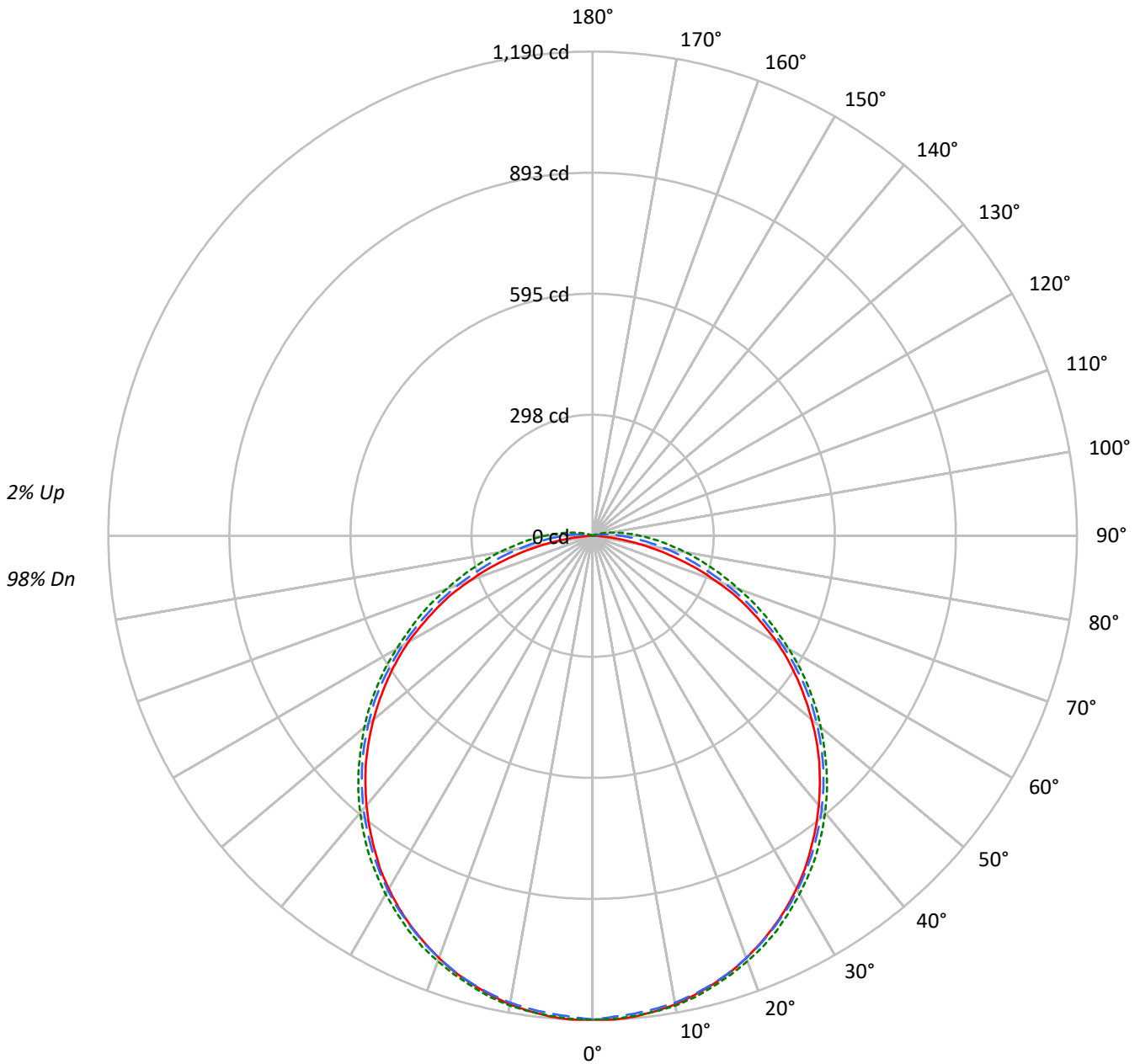
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3595.0 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 3' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 32.3  
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°	25597	25597	25597
5°	25516	23914	23537
10°	25315	22508	21788
15°	25065	21176	20150
20°	24800	19890	18685
25°	24487	18668	17336
30°	24129	17480	16025
35°	23682	16298	14804
40°	23218	15134	13576
45°	22716	13964	12373
50°	22073	12747	11186
55°	21375	11508	9998
60°	20541	10126	8772
65°	19226	8705	7605
70°	17359	7210	6402
75°	14736	5714	5311
80°	10888	4330	4307
85°	5589	3042	3358



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.5	3.1
10°-20°	322.7	9.0
20°-30°	489.7	13.6
30°-40°	592.2	16.5
40°-50°	617.9	17.2
50°-60°	564.9	15.7
60°-70°	440.4	12.2
70°-80°	275.5	7.7
80°-90°	125.1	3.5
90°-100°	41.9	1.2
100°-110°	10.5	0.3
110°-120°	1.7	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°	925.0	25.7
0°-40°	1517.1	42.2
0°-60°	2699.9	75.1
0°-90°	3540.9	98.5
90°-120°	54.1	1.5
90°-150°	54.1	1.5
90°-180°	54.0	1.5
0°-180°	3595.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1189	1189	1189	1189	1189	
5°	1186	1184	1179	1184	1184	113
15°	1141	1143	1140	1147	1146	322
25°	1058	1058	1060	1068	1070	487
35°	936	940	944	954	958	586
45°	788	795	801	809	813	607
55°	615	622	634	643	647	549
65°	422	430	444	462	470	418
75°	214	227	260	291	302	228
85°	37	68	117	155	169	47
90°	0	26	69	104	117	1
95°	0	7	36	65	75	0
105°	1	1	6	17	23	1
115°	1	1	1	3	4	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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CATALOG NUMBER: HVSL2-3-LD4-HI-50-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1189.0	1189.0	1189.0	1189.0	1189.0
2.5°	1190.4	1188.7	1183.4	1188.7	1188.4
5°	1186.5	1184.2	1178.9	1184.5	1184.5
7.5°	1178.6	1177.8	1173.0	1179.5	1179.5
10°	1169.4	1169.1	1165.2	1172.2	1172.5
12.5°	1156.5	1157.6	1154.0	1160.7	1161.5
15°	1141.4	1143.3	1140.2	1146.7	1146.4
17.5°	1124.8	1125.9	1123.7	1131.0	1130.7
20°	1104.4	1105.8	1104.1	1111.6	1112.5
22.5°	1081.7	1083.6	1083.3	1091.2	1093.4
25°	1057.6	1058.4	1059.5	1068.5	1070.2
27.5°	1030.9	1032.3	1034.3	1042.4	1044.1
30°	1001.8	1004.0	1006.3	1014.7	1016.9
32.5°	970.9	973.2	976.0	986.9	988.0
35°	936.2	940.4	944.3	953.8	957.8
37.5°	901.4	906.8	910.4	920.5	923.6
40°	864.7	870.0	875.9	886.6	888.5
42.5°	826.3	832.5	839.5	849.0	852.4
45°	787.6	794.6	801.1	808.9	812.9
47.5°	745.9	752.9	760.7	769.7	772.2
50°	702.7	710.8	719.2	727.6	732.1
52.5°	658.4	668.2	677.8	686.7	690.9
55°	614.7	622.0	633.5	642.7	646.9
57.5°	569.3	575.4	585.8	601.0	603.2
60°	523.0	528.6	539.3	551.6	556.7
62.5°	472.0	479.6	490.8	506.5	511.0
65°	422.4	429.7	444.5	462.2	469.5
67.5°	374.5	377.0	396.1	414.6	426.3
70°	317.9	327.4	349.5	372.2	381.2
72.5°	269.1	278.6	303.0	329.6	340.8
75°	213.9	227.0	260.1	291.2	302.2
77.5°	165.4	179.9	220.9	252.3	264.9
80°	115.5	138.2	182.8	218.1	231.8
82.5°	72.6	100.6	148.3	185.3	197.3
85°	37.0	68.4	117.4	155.3	169.0
87.5°	9.8	44.3	91.4	127.5	141.5
90°	0.3	25.5	69.2	104.0	116.6
92.5°	0.3	14.3	51.6	82.7	95.6
95°	0.3	6.7	35.9	65.0	75.1
97.5°	0.3	2.8	24.7	49.1	59.1
100°	0.3	1.4	15.7	35.6	44.3
102.5°	0.6	0.8	9.8	25.5	32.5
105°	0.6	0.8	5.9	17.4	23.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	1.1	4.8	7.0
115°	0.8	0.8	1.1	3.1	4.5
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°	0.6	0.8	3.4	11.8	16.0
110°	0.8	0.8	2.0	7.3	10.7



(END OF REPORT)