

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: P580721

Luminaire Tested: **HVSL8-2-LD4-3LO-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580721
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-LD4-3LO-50-UNV-O-EDD-90
Description: 2 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

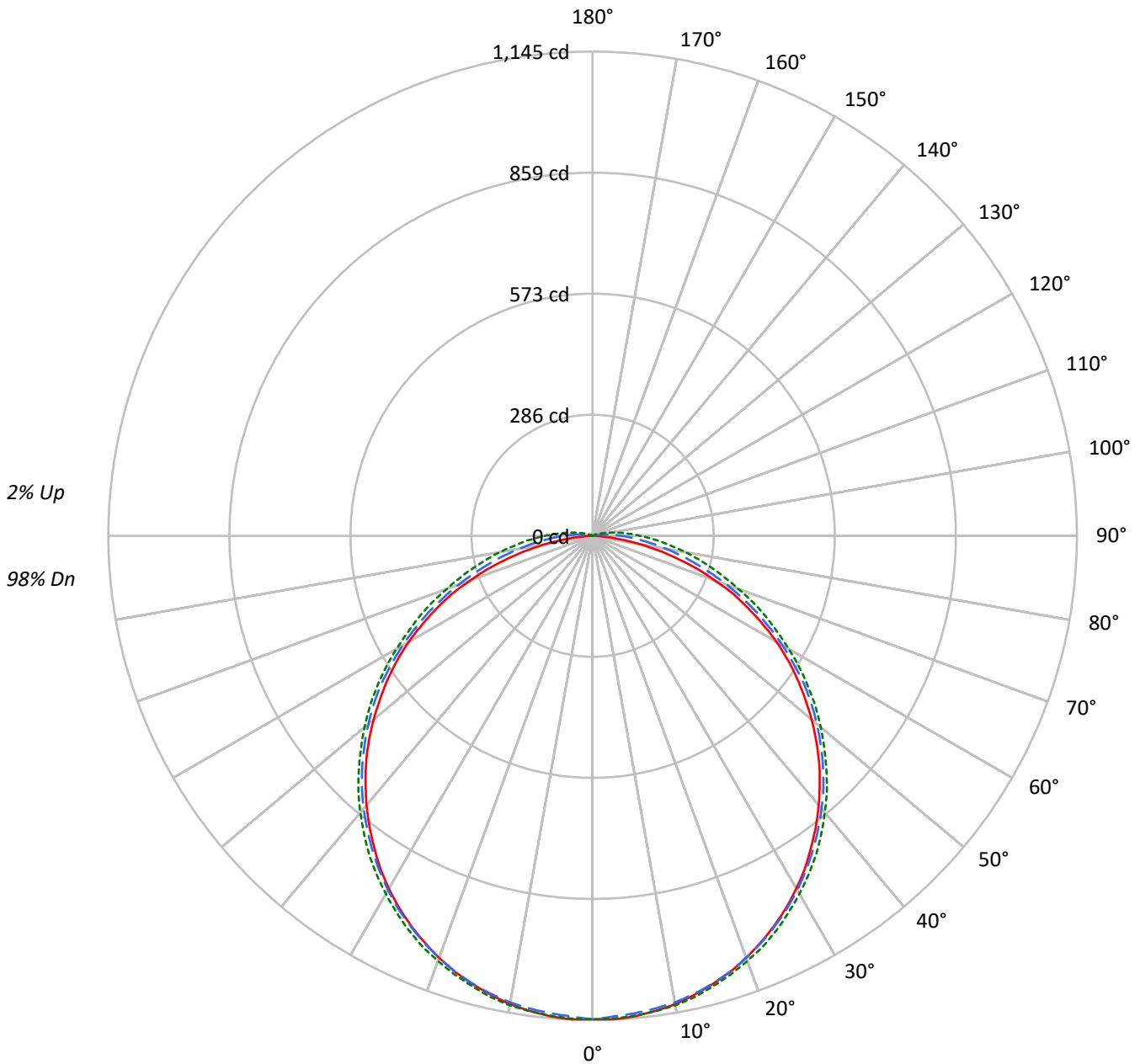
Lumens per Lamp: N/A
Luminaire Lumens: 3457.0 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 34.7
Input Voltage (V): NR
Input Current (A_{in}): 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				20				20
RC	80				70				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°	9231	9231	9231
5°	9179	9002	9033
10°	9085	8819	8852
15°	8972	8620	8635
20°	8855	8400	8424
25°	8720	8176	8209
30°	8567	7939	7966
35°	8382	7682	7724
40°	8190	7411	7443
45°	7982	7117	7139
50°	7719	6781	6812
55°	7435	6414	6452
60°	7097	5946	6031
65°	6583	5424	5614
70°	5871	4815	5129
75°	4894	4150	4689
80°	3504	3495	4285
85°	1689	2830	3901



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	3.1
10°-20°	310.4	9.0
20°-30°	470.9	13.6
30°-40°	569.4	16.5
40°-50°	594.1	17.2
50°-60°	543.2	15.7
60°-70°	423.5	12.2
70°-80°	264.9	7.7
80°-90°	120.3	3.5
90°-100°	40.3	1.2
100°-110°	10.1	0.3
110°-120°	1.6	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°	889.5	25.7
0°-40°	1458.9	42.2
0°-60°	2596.2	75.1
0°-90°	3404.9	98.5
90°-120°	52.0	1.5
90°-150°	52.0	1.5
90°-180°	52.0	1.5
0°-180°	3457.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1143	1143	1143	1143	1143	
5°	1141	1139	1134	1139	1139	108
15°	1098	1099	1096	1103	1102	310
25°	1017	1018	1019	1028	1029	469
35°	900	904	908	917	921	563
45°	757	764	770	778	782	584
55°	591	598	609	618	622	528
65°	406	413	428	444	452	402
75°	206	218	250	280	291	219
85°	36	66	113	149	162	45
90°	0	24	67	100	112	1
95°	0	6	34	62	72	0
105°	0	1	6	17	22	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1143.4	1143.4	1143.4	1143.4	1143.4
2.5°	1144.7	1143.1	1138.0	1143.1	1142.8
5°	1140.9	1138.8	1133.7	1139.1	1139.1
7.5°	1133.4	1132.6	1128.0	1134.2	1134.2
10°	1124.5	1124.2	1120.5	1127.2	1127.5
12.5°	1112.1	1113.2	1109.7	1116.1	1117.0
15°	1097.5	1099.4	1096.5	1102.7	1102.4
17.5°	1081.6	1082.7	1080.6	1087.6	1087.3
20°	1062.0	1063.3	1061.7	1069.0	1069.8
22.5°	1040.1	1042.0	1041.8	1049.3	1051.5
25°	1017.0	1017.8	1018.8	1027.5	1029.1
27.5°	991.3	992.7	994.6	1002.4	1004.0
30°	963.3	965.5	967.6	975.7	977.9
32.5°	933.7	935.8	938.5	949.0	950.1
35°	900.2	904.3	908.1	917.2	921.0
37.5°	866.8	871.9	875.4	885.2	888.1
40°	831.5	836.6	842.3	852.5	854.4
42.5°	794.6	800.5	807.3	816.4	819.7
45°	757.4	764.1	770.3	777.9	781.7
47.5°	717.2	724.0	731.5	740.1	742.6
50°	675.7	683.5	691.6	699.7	704.0
52.5°	633.1	642.6	651.7	660.4	664.4
55°	591.1	598.1	609.1	618.0	622.1
57.5°	547.4	553.4	563.3	577.9	580.0
60°	503.0	508.3	518.6	530.4	535.3
62.5°	453.9	461.2	472.0	487.0	491.4
65°	406.2	413.2	427.5	444.5	451.5
67.5°	360.1	362.5	380.9	398.6	410.0
70°	305.7	314.8	336.1	357.9	366.6
72.5°	258.8	267.9	291.4	317.0	327.8
75°	205.7	218.3	250.1	280.0	290.6
77.5°	159.0	173.0	212.4	242.6	254.7
80°	111.0	132.9	175.7	209.7	222.9
82.5°	69.8	96.8	142.6	178.2	189.8
85°	35.6	65.8	112.9	149.3	162.5
87.5°	9.4	42.6	87.9	122.6	136.1
90°	0.3	24.5	66.6	100.0	112.1
92.5°	0.3	13.7	49.6	79.5	91.9
95°	0.3	6.5	34.5	62.5	72.2
97.5°	0.3	2.7	23.7	47.2	56.9
100°	0.3	1.3	15.1	34.2	42.6
102.5°	0.5	0.8	9.4	24.5	31.3
105°	0.5	0.8	5.7	16.7	22.4



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CATALOG NUMBER: HVSL8-2-LD4-3LO-50-UNV-O-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	1.1	4.6	6.7
115°	0.8	0.8	1.1	3.0	4.3
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°	0.5	0.8	3.2	11.3	15.4
110°	0.8	0.8	1.9	7.0	10.2



(END OF REPORT)