

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: P580706

Luminaire Tested: **HVSL8-2-LD4-2STD-50-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580706  
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-LD4-2STD-50-UNV-O-EDD  
Description: 2 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

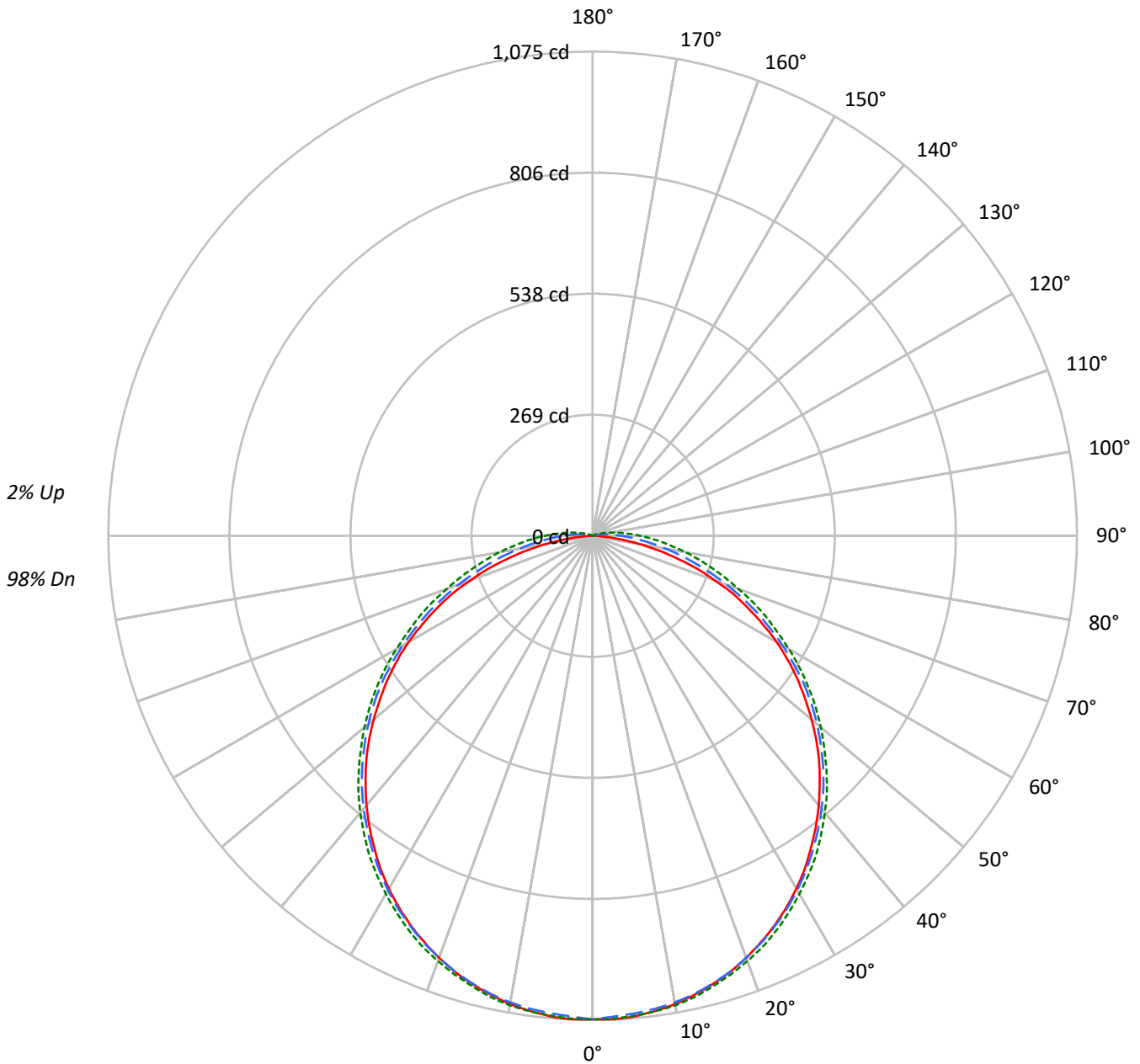
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3246.0 lumens  
Efficiency: N/A  
Efficacy: 96.3 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): 33.7  
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°	8667	8667	8667
5°	8619	8452	8481
10°	8530	8280	8311
15°	8425	8093	8108
20°	8314	7888	7910
25°	8188	7678	7709
30°	8044	7455	7480
35°	7871	7212	7253
40°	7691	6958	6989
45°	7495	6682	6703
50°	7249	6367	6397
55°	6981	6023	6058
60°	6664	5582	5662
65°	6181	5093	5271
70°	5512	4521	4816
75°	4594	3898	4402
80°	3293	3282	4024
85°	1584	2657	3664



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.6	3.1
10°-20°	291.4	9.0
20°-30°	442.2	13.6
30°-40°	534.7	16.5
40°-50°	557.9	17.2
50°-60°	510.1	15.7
60°-70°	397.6	12.2
70°-80°	248.7	7.7
80°-90°	113.0	3.5
90°-100°	37.9	1.2
100°-110°	9.5	0.3
110°-120°	1.5	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°	835.2	25.7
0°-40°	1369.8	42.2
0°-60°	2437.8	75.1
0°-90°	3197.1	98.5
90°-120°	48.9	1.5
90°-150°	48.9	1.5
90°-180°	49.0	1.5
0°-180°	3246.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1071	1069	1064	1070	1070	102
15°	1031	1032	1030	1035	1035	291
25°	955	956	957	965	966	440
35°	845	849	853	861	865	529
45°	711	718	723	730	734	548
55°	555	562	572	580	584	496
65°	381	388	401	417	424	377
75°	193	205	235	263	273	206
85°	33	62	106	140	153	42
90°	0	23	62	94	105	1
95°	0	6	32	59	68	0
105°	0	1	5	16	21	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°	1073.6	1073.6	1073.6	1073.6	1073.6
2.5°	1074.8	1073.3	1068.5	1073.3	1073.1
5°	1071.3	1069.3	1064.5	1069.5	1069.5
7.5°	1064.2	1063.5	1059.2	1065.0	1065.0
10°	1055.9	1055.6	1052.1	1058.4	1058.6
12.5°	1044.2	1045.2	1041.9	1048.0	1048.8
15°	1030.6	1032.3	1029.5	1035.4	1035.1
17.5°	1015.6	1016.6	1014.6	1021.2	1020.9
20°	997.1	998.4	996.9	1003.7	1004.5
22.5°	976.6	978.4	978.2	985.3	987.3
25°	954.9	955.6	956.7	964.8	966.3
27.5°	930.8	932.1	933.9	941.2	942.7
30°	904.5	906.5	908.6	916.2	918.2
32.5°	876.7	878.7	881.2	891.1	892.1
35°	845.3	849.1	852.6	861.2	864.8
37.5°	813.9	818.7	822.0	831.1	833.9
40°	780.8	785.6	790.9	800.5	802.3
42.5°	746.1	751.7	758.0	766.6	769.6
45°	711.2	717.5	723.3	730.4	733.9
47.5°	673.5	679.8	686.9	695.0	697.2
50°	634.5	641.8	649.4	657.0	661.1
52.5°	594.5	603.4	612.0	620.1	623.9
55°	555.0	561.6	572.0	580.3	584.1
57.5°	514.0	519.6	528.9	542.6	544.6
60°	472.3	477.3	486.9	498.1	502.6
62.5°	426.2	433.0	443.1	457.3	461.4
65°	381.4	388.0	401.4	417.3	423.9
67.5°	338.1	340.4	357.6	374.3	384.9
70°	287.0	295.6	315.6	336.1	344.2
72.5°	243.0	251.6	273.6	297.6	307.7
75°	193.1	205.0	234.9	263.0	272.8
77.5°	149.3	162.5	199.4	227.8	239.2
80°	104.3	124.8	165.0	196.9	209.3
82.5°	65.5	90.9	133.9	167.3	178.2
85°	33.4	61.8	106.0	140.2	152.6
87.5°	8.9	40.0	82.5	115.2	127.8
90°	0.3	23.0	62.5	93.9	105.3
92.5°	0.3	12.9	46.6	74.7	86.3
95°	0.3	6.1	32.4	58.7	67.8
97.5°	0.3	2.5	22.3	44.3	53.4
100°	0.3	1.3	14.2	32.1	40.0
102.5°	0.5	0.8	8.9	23.0	29.4
105°	0.5	0.8	5.3	15.7	21.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	1.0	4.3	6.3
115°	0.8	0.8	1.0	2.8	4.0
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	3.0	10.6	14.4
110°	0.8	0.8	1.8	6.6	9.6



(END OF REPORT)