

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: P580152

Luminaire Tested: **HVSL12-2-LD4-2STD-40-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580152  
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: HVSL12-2-LD4-2STD-40-UNV-O-EDD  
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

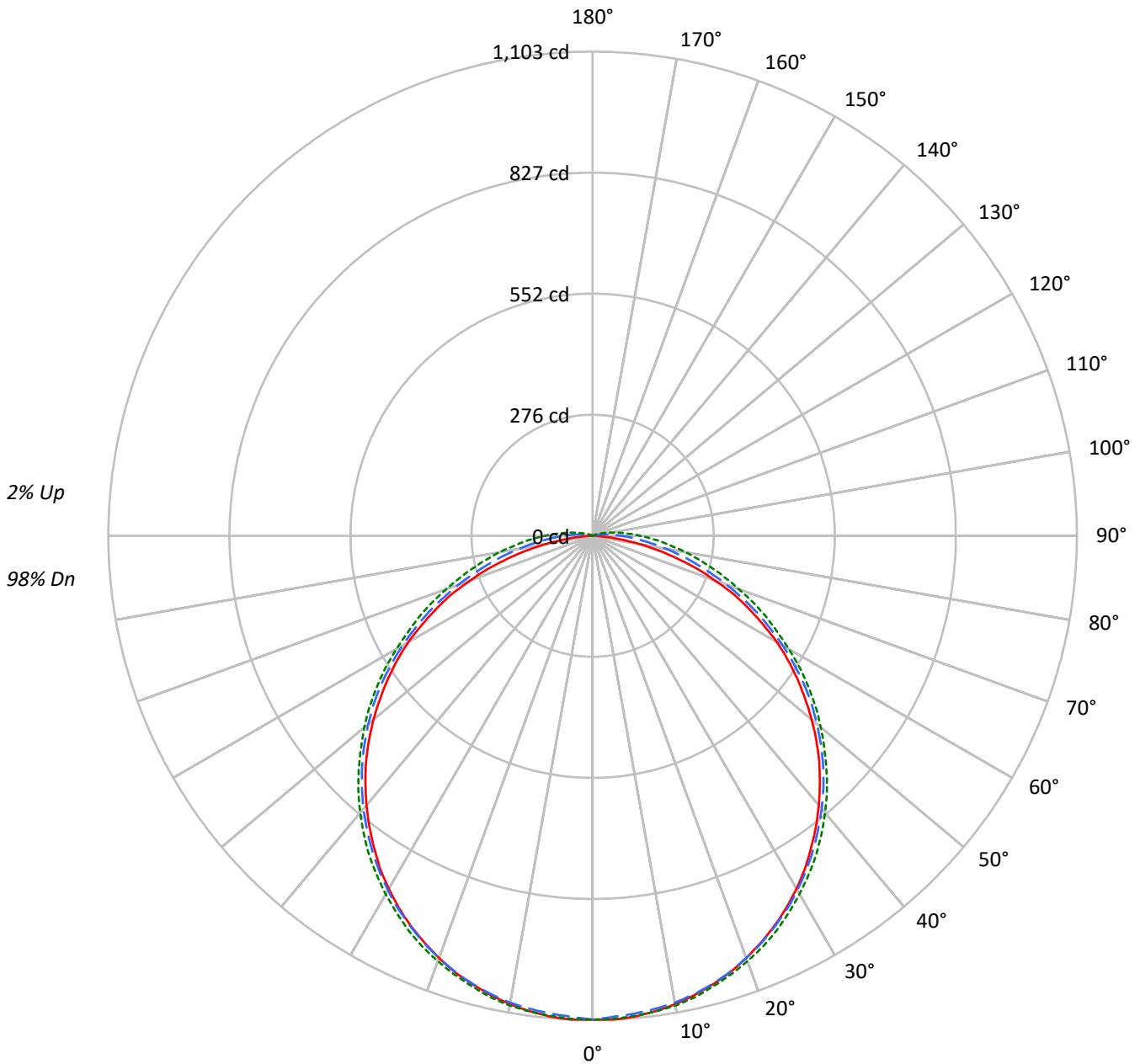
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3332.0 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: 1' x L: 2' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 34.6  
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

TEST NUMBER: P580152

CATALOG NUMBER: HVSL12-2-LD4-2STD-40-UNV-O-EDD

### 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°	5931	5931	5931
5°	5898	5813	5846
10°	5837	5723	5769
15°	5766	5622	5667
20°	5690	5506	5568
25°	5603	5387	5465
30°	5505	5259	5343
35°	5387	5117	5223
40°	5262	4967	5076
45°	5129	4802	4915
50°	4960	4610	4740
55°	4777	4398	4544
60°	4560	4119	4309
65°	4230	3804	4082
70°	3772	3431	3813
75°	3144	3020	3591
80°	2252	2622	3422
85°	1085	2226	3330



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.3	3.1
10°-20°	299.1	9.0
20°-30°	453.9	13.6
30°-40°	548.8	16.5
40°-50°	572.7	17.2
50°-60°	523.6	15.7
60°-70°	408.2	12.2
70°-80°	255.3	7.7
80°-90°	116.0	3.5
90°-100°	38.9	1.2
100°-110°	9.8	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°	857.3	25.7
0°-40°	1406.1	42.2
0°-60°	2502.4	75.1
0°-90°	3281.8	98.5
90°-120°	50.2	1.5
90°-150°	50.2	1.5
90°-180°	50.0	1.5
0°-180°	3332.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1100	1098	1093	1098	1098	104
15°	1058	1060	1057	1063	1062	299
25°	980	981	982	990	992	452
35°	868	872	875	884	888	543
45°	730	736	742	750	753	563
55°	570	576	587	596	600	509
65°	392	398	412	428	435	387
75°	198	210	241	270	280	211
85°	34	63	109	144	157	43
90°	0	24	64	96	108	1
95°	0	6	33	60	70	0
105°	0	1	6	16	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	0



TEST NUMBER: P580152

CATALOG NUMBER: HVSL12-2-LD4-2STD-40-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1102.0	1102.0	1102.0	1102.0	1102.0
2.5°	1103.3	1101.8	1096.8	1101.8	1101.5
5°	1099.7	1097.6	1092.7	1097.9	1097.9
7.5°	1092.4	1091.6	1087.2	1093.2	1093.2
10°	1083.8	1083.6	1079.9	1086.4	1086.7
12.5°	1071.9	1072.9	1069.6	1075.8	1076.6
15°	1057.9	1059.7	1056.8	1062.8	1062.5
17.5°	1042.5	1043.6	1041.5	1048.2	1048.0
20°	1023.6	1024.9	1023.3	1030.3	1031.1
22.5°	1002.5	1004.3	1004.1	1011.4	1013.4
25°	980.2	981.0	982.0	990.3	991.9
27.5°	955.5	956.8	958.6	966.2	967.7
30°	928.5	930.6	932.6	940.4	942.5
32.5°	899.9	902.0	904.6	914.7	915.8
35°	867.7	871.6	875.2	884.1	887.7
37.5°	835.5	840.4	843.8	853.1	856.0
40°	801.4	806.4	811.8	821.7	823.5
42.5°	765.9	771.6	778.1	786.9	790.0
45°	730.0	736.5	742.5	749.8	753.4
47.5°	691.3	697.8	705.1	713.4	715.7
50°	651.3	658.8	666.6	674.4	678.6
52.5°	610.2	619.3	628.2	636.5	640.4
55°	569.7	576.5	587.1	595.7	599.6
57.5°	527.6	533.3	543.0	557.0	559.1
60°	484.8	490.0	499.8	511.3	515.9
62.5°	437.5	444.5	454.9	469.4	473.6
65°	391.5	398.3	412.0	428.4	435.1
67.5°	347.1	349.4	367.1	384.2	395.1
70°	294.6	303.4	324.0	345.0	353.3
72.5°	249.4	258.2	280.8	305.5	315.9
75°	198.2	210.4	241.1	269.9	280.1
77.5°	153.3	166.8	204.7	233.8	245.5
80°	107.0	128.1	169.4	202.1	214.8
82.5°	67.3	93.3	137.4	171.7	182.9
85°	34.3	63.4	108.9	143.9	156.7
87.5°	9.1	41.0	84.7	118.2	131.2
90°	0.3	23.6	64.2	96.4	108.1
92.5°	0.3	13.2	47.8	76.6	88.6
95°	0.3	6.2	33.3	60.3	69.6
97.5°	0.3	2.6	22.9	45.5	54.8
100°	0.3	1.3	14.5	33.0	41.0
102.5°	0.5	0.8	9.1	23.6	30.1
105°	0.5	0.8	5.5	16.1	21.6



TEST NUMBER: P580152

CATALOG NUMBER: HVSL12-2-LD4-2STD-40-UNV-O-EDD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	1.0	4.4	6.5
115°	0.8	0.8	1.0	2.9	4.2
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	3.1	10.9	14.8
110°	0.8	0.8	1.8	6.8	9.9



(END OF REPORT)