

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: P580131

Luminaire Tested: **HVSL12-2-LD4-2HI-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580131  
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-LD4-2HI-30-UNV-O-EDD-90  
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

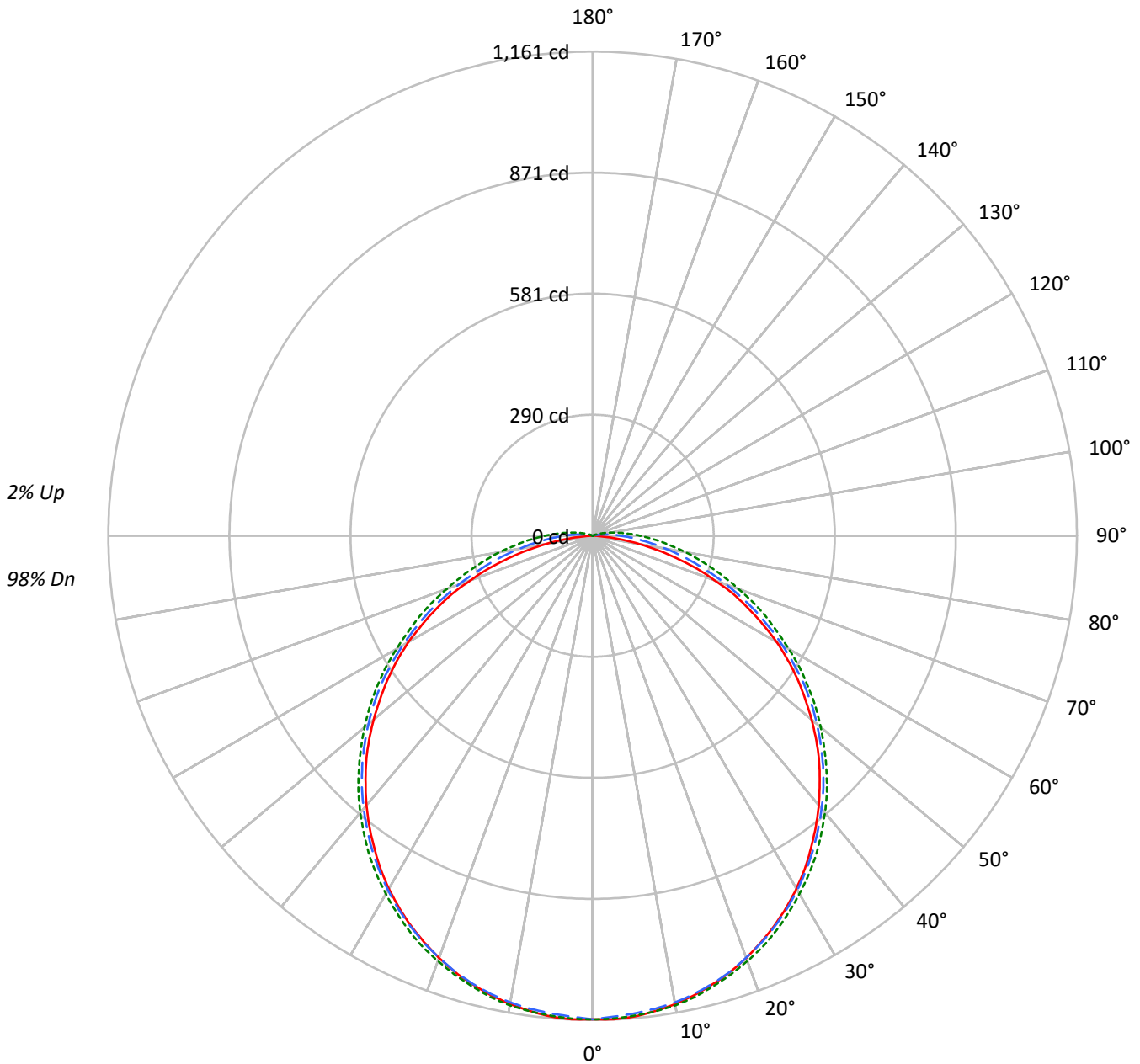
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3506.0 lumens  
Efficiency: N/A  
Efficacy: 76.9 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): 45.6  
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

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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°	6241	6241	6241
5°	6206	6117	6151
10°	6142	6022	6070
15°	6066	5916	5963
20°	5987	5794	5858
25°	5896	5669	5751
30°	5793	5533	5622
35°	5668	5384	5496
40°	5537	5226	5341
45°	5396	5053	5171
50°	5219	4851	4987
55°	5027	4628	4781
60°	4798	4334	4534
65°	4450	4003	4296
70°	3969	3610	4013
75°	3309	3178	3778
80°	2370	2758	3602
85°	1142	2340	3503



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.7	3.1
10°-20°	314.8	9.0
20°-30°	477.6	13.6
30°-40°	577.5	16.5
40°-50°	602.6	17.2
50°-60°	550.9	15.7
60°-70°	429.5	12.2
70°-80°	268.7	7.7
80°-90°	122.0	3.5
90°-100°	40.9	1.2
100°-110°	10.3	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°	902.1	25.7
0°-40°	1479.6	42.2
0°-60°	2633.1	75.1
0°-90°	3453.2	98.5
90°-120°	52.8	1.5
90°-150°	52.8	1.5
90°-180°	53.0	1.5
0°-180°	3506.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1160	1160	1160	1160	1160	
5°	1157	1155	1150	1155	1155	110
15°	1113	1115	1112	1118	1118	314
25°	1031	1032	1033	1042	1044	475
35°	913	917	921	930	934	571
45°	768	775	781	789	793	592
55°	600	607	618	627	631	536
65°	412	419	434	451	458	408
75°	209	221	254	284	295	222
85°	36	67	114	151	165	46
90°	0	25	68	101	114	1
95°	0	7	35	63	73	0
105°	0	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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1159.6	1159.6	1159.6	1159.6	1159.6
2.5°	1160.9	1159.3	1154.1	1159.3	1159.0
5°	1157.1	1154.9	1149.7	1155.2	1155.2
7.5°	1149.5	1148.6	1144.0	1150.3	1150.3
10°	1140.4	1140.2	1136.3	1143.2	1143.4
12.5°	1127.9	1129.0	1125.4	1132.0	1132.8
15°	1113.1	1115.0	1112.0	1118.3	1118.0
17.5°	1097.0	1098.1	1095.9	1103.0	1102.7
20°	1077.0	1078.4	1076.7	1084.1	1084.9
22.5°	1054.9	1056.8	1056.5	1064.2	1066.4
25°	1031.4	1032.2	1033.3	1042.0	1043.7
27.5°	1005.4	1006.8	1008.7	1016.6	1018.2
30°	977.0	979.2	981.3	989.5	991.7
32.5°	946.9	949.1	951.8	962.5	963.6
35°	913.0	917.1	920.9	930.2	934.1
37.5°	879.1	884.3	887.9	897.7	900.7
40°	843.3	848.5	854.2	864.6	866.5
42.5°	805.9	811.9	818.7	828.0	831.3
45°	768.1	775.0	781.2	788.9	792.7
47.5°	727.4	734.2	741.9	750.6	753.1
50°	685.3	693.2	701.4	709.6	714.0
52.5°	642.1	651.7	661.0	669.7	673.8
55°	599.5	606.6	617.8	626.8	630.9
57.5°	555.2	561.2	571.3	586.1	588.3
60°	510.1	515.5	525.9	538.0	542.9
62.5°	460.3	467.7	478.6	494.0	498.3
65°	411.9	419.1	433.5	450.8	457.9
67.5°	365.2	367.7	386.3	404.3	415.8
70°	310.0	319.3	340.9	363.0	371.8
72.5°	262.4	271.7	295.5	321.5	332.4
75°	208.6	221.4	253.7	284.0	294.7
77.5°	161.3	175.5	215.4	246.0	258.3
80°	112.6	134.8	178.2	212.7	226.1
82.5°	70.8	98.1	144.6	180.7	192.4
85°	36.1	66.7	114.5	151.4	164.8
87.5°	9.6	43.2	89.1	124.4	138.0
90°	0.3	24.9	67.5	101.4	113.7
92.5°	0.3	13.9	50.3	80.6	93.2
95°	0.3	6.6	35.0	63.4	73.3
97.5°	0.3	2.7	24.1	47.8	57.7
100°	0.3	1.4	15.3	34.7	43.2
102.5°	0.5	0.8	9.6	24.9	31.7
105°	0.5	0.8	5.7	16.9	22.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	1.1	4.6	6.8
115°	0.8	0.8	1.1	3.0	4.4
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	3.3	11.5	15.6
110°	0.8	0.8	1.9	7.1	10.4



(END OF REPORT)