

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: P580334

Luminaire Tested: **HVSL2-2-LD4-LO-35-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580334  
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: HVSL2-2-LD4-LO-35-UNV-O-EDD  
Description: 2 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

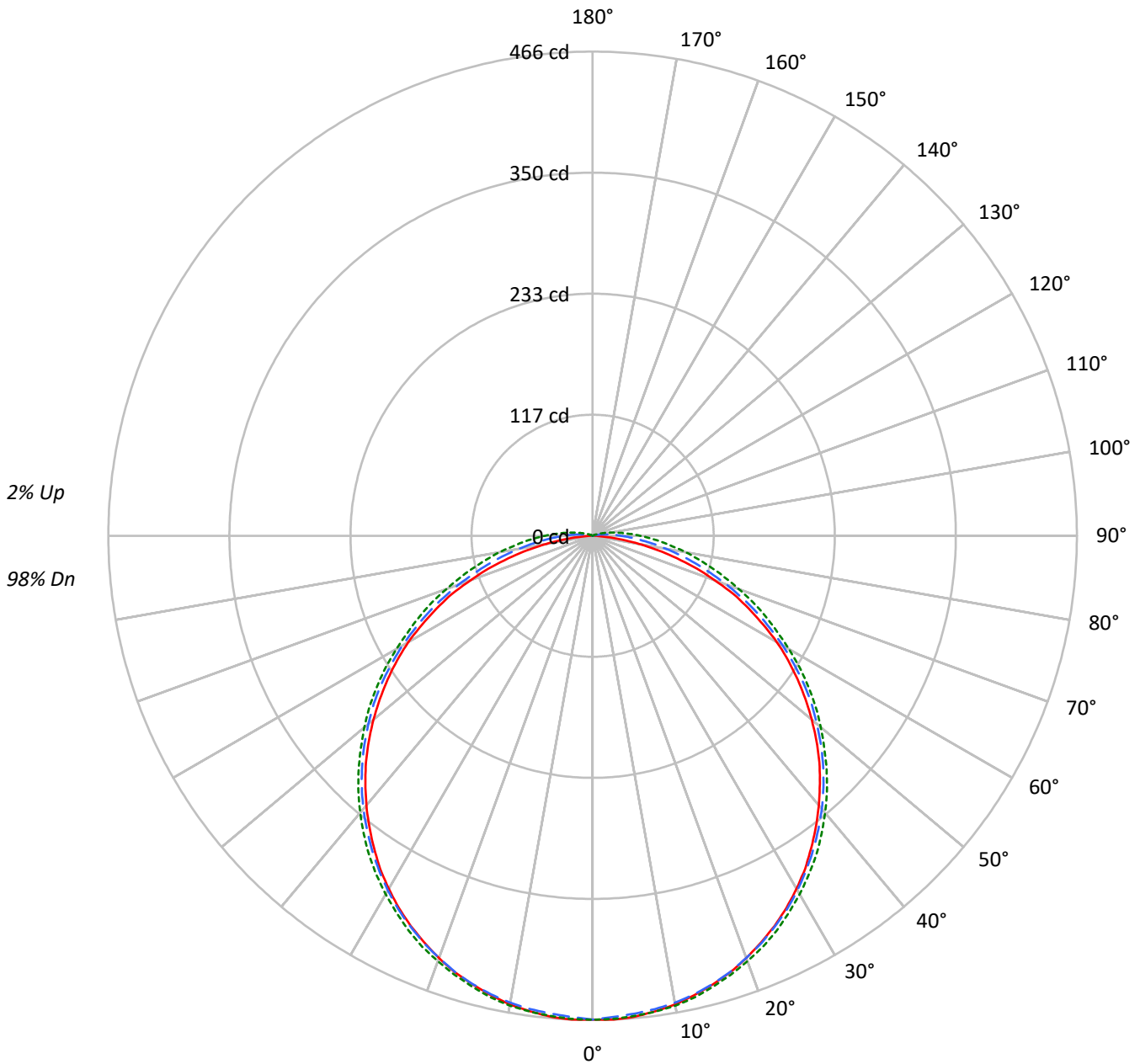
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1408.0 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 2' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 11.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	15038	15038	15038
5°	14954	14026	13827
10°	14800	13184	12800
15°	14617	12387	11838
20°	14425	11619	10977
25°	14206	10894	10183
30°	13956	10188	9415
35°	13659	9488	8696
40°	13344	8803	7976
45°	13004	8111	7270
50°	12576	7397	6571
55°	12110	6670	5875
60°	11558	5861	5153
65°	10722	5033	4468
70°	9564	4163	3761
75°	7975	3294	3119
80°	5707	2491	2531
85°	2751	1747	1973



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.1	3.1
10°-20°	126.4	9.0
20°-30°	191.8	13.6
30°-40°	231.9	16.5
40°-50°	242.0	17.2
50°-60°	221.2	15.7
60°-70°	172.5	12.2
70°-80°	107.9	7.7
80°-90°	49.0	3.5
90°-100°	16.4	1.2
100°-110°	4.1	0.3
110°-120°	0.6	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°	362.3	25.7
0°-40°	594.2	42.2
0°-60°	1057.4	75.1
0°-90°	1386.8	98.5
90°-120°	21.2	1.5
90°-150°	21.2	1.5
90°-180°	21.0	1.5
0°-180°	1408.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	466	466	466	466	466	
5°	465	464	462	464	464	44
15°	447	448	447	449	449	126
25°	414	414	415	418	419	191
35°	367	368	370	374	375	229
45°	308	311	314	317	318	238
55°	241	244	248	252	253	215
65°	165	168	174	181	184	164
75°	84	89	102	114	118	89
85°	14	27	46	61	66	18
90°	0	10	27	41	46	1
95°	0	3	14	26	29	0
105°	0	0	2	7	9	0
115°	0	0	0	1	2	0
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: HVSL2-2-LD4-LO-35-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	465.7	465.7	465.7	465.7	465.7
2.5°	466.2	465.6	463.5	465.6	465.5
5°	464.7	463.8	461.7	463.9	463.9
7.5°	461.6	461.3	459.4	461.9	461.9
10°	458.0	457.9	456.4	459.1	459.2
12.5°	452.9	453.4	452.0	454.6	454.9
15°	447.0	447.8	446.6	449.1	449.0
17.5°	440.5	441.0	440.1	443.0	442.8
20°	432.5	433.1	432.4	435.4	435.7
22.5°	423.6	424.4	424.3	427.4	428.2
25°	414.2	414.5	415.0	418.5	419.1
27.5°	403.8	404.3	405.1	408.3	408.9
30°	392.3	393.2	394.1	397.4	398.3
32.5°	380.3	381.2	382.2	386.5	387.0
35°	366.7	368.3	369.8	373.6	375.1
37.5°	353.0	355.1	356.6	360.5	361.7
40°	338.7	340.8	343.1	347.2	348.0
42.5°	323.6	326.0	328.8	332.5	333.8
45°	308.5	311.2	313.7	316.8	318.4
47.5°	292.1	294.9	297.9	301.5	302.4
50°	275.2	278.4	281.7	285.0	286.7
52.5°	257.9	261.7	265.4	269.0	270.6
55°	240.7	243.6	248.1	251.7	253.4
57.5°	223.0	225.4	229.4	235.4	236.2
60°	204.8	207.0	211.2	216.0	218.0
62.5°	184.9	187.8	192.2	198.4	200.1
65°	165.4	168.3	174.1	181.0	183.9
67.5°	146.7	147.7	155.1	162.4	167.0
70°	124.5	128.2	136.9	145.8	149.3
72.5°	105.4	109.1	118.7	129.1	133.5
75°	83.8	88.9	101.9	114.1	118.3
77.5°	64.8	70.5	86.5	98.8	103.7
80°	45.2	54.1	71.6	85.4	90.8
82.5°	28.4	39.4	58.1	72.6	77.3
85°	14.5	26.8	46.0	60.8	66.2
87.5°	3.8	17.3	35.8	49.9	55.4
90°	0.1	10.0	27.1	40.7	45.7
92.5°	0.1	5.6	20.2	32.4	37.4
95°	0.1	2.6	14.1	25.5	29.4
97.5°	0.1	1.1	9.7	19.2	23.2
100°	0.1	0.5	6.1	13.9	17.3
102.5°	0.2	0.3	3.8	10.0	12.7
105°	0.2	0.3	2.3	6.8	9.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.4	1.9	2.7
115°	0.3	0.3	0.4	1.2	1.8
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°	0.2	0.3	1.3	4.6	6.3
110°	0.3	0.3	0.8	2.9	4.2



(END OF REPORT)