

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: P580357

Luminaire Tested: **HVSL2-3-LD4-LO-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580357  
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: HVSL2-3-LD4-LO-35-UNV-O-EDD-90  
Description: 3 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

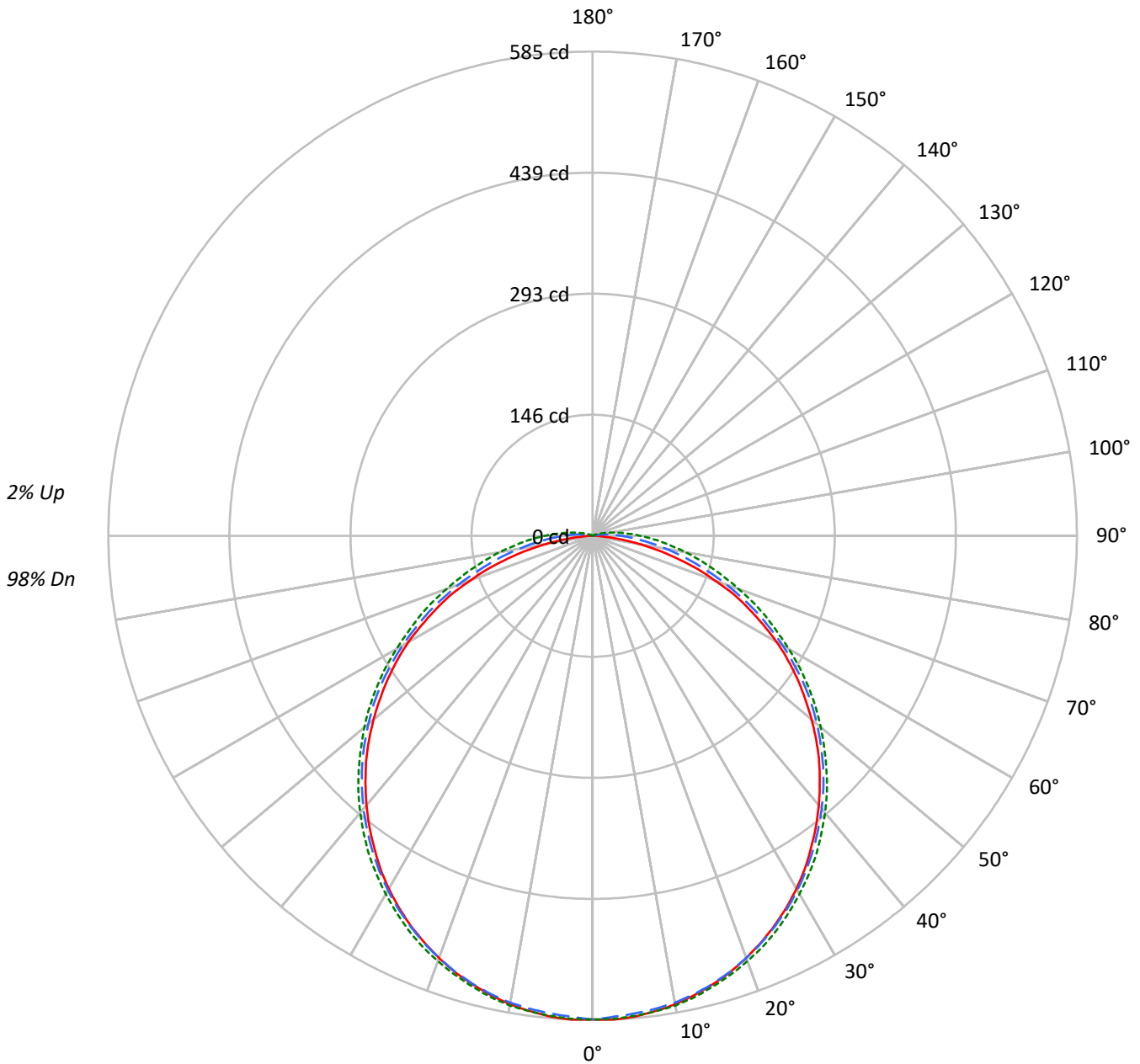
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1767.0 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 3' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 17.3  
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°	12581	12581	12581
5°	12542	11755	11569
10°	12443	11063	10709
15°	12320	10408	9904
20°	12189	9776	9184
25°	12035	9176	8520
30°	11860	8592	7876
35°	11639	8010	7277
40°	11412	7439	6672
45°	11165	6863	6081
50°	10849	6265	5499
55°	10505	5657	4915
60°	10098	4978	4311
65°	9449	4279	3738
70°	8530	3544	3147
75°	7240	2808	2610
80°	5354	2127	2116
85°	2749	1495	1651



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.3	3.1
10°-20°	158.6	9.0
20°-30°	240.7	13.6
30°-40°	291.0	16.5
40°-50°	303.7	17.2
50°-60°	277.7	15.7
60°-70°	216.5	12.3
70°-80°	135.4	7.7
80°-90°	61.5	3.5
90°-100°	20.6	1.2
100°-110°	5.2	0.3
110°-120°	0.8	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°	454.6	25.7
0°-40°	745.7	42.2
0°-60°	1327.0	75.1
0°-90°	1740.4	98.5
90°-120°	26.6	1.5
90°-150°	26.6	1.5
90°-180°	27.0	1.5
0°-180°	1767.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	584	584	584	584	584	
5°	583	582	580	582	582	55
15°	561	562	560	564	564	158
25°	520	520	521	525	526	240
35°	460	462	464	469	471	288
45°	387	391	394	398	400	298
55°	302	306	311	316	318	270
65°	208	211	218	227	231	205
75°	105	112	128	143	148	112
85°	18	34	58	76	83	23
90°	0	12	34	51	57	1
95°	0	3	18	32	37	0
105°	0	0	3	8	11	0
115°	0	0	1	2	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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	584.4	584.4	584.4	584.4	584.4
2.5°	585.1	584.3	581.7	584.3	584.1
5°	583.2	582.1	579.5	582.2	582.2
7.5°	579.3	578.9	576.6	579.7	579.7
10°	574.8	574.6	572.7	576.2	576.3
12.5°	568.4	569.0	567.2	570.5	570.9
15°	561.0	562.0	560.4	563.6	563.5
17.5°	552.9	553.4	552.3	555.9	555.8
20°	542.8	543.5	542.7	546.4	546.8
22.5°	531.7	532.6	532.5	536.3	537.4
25°	519.8	520.2	520.8	525.2	526.0
27.5°	506.7	507.4	508.4	512.4	513.2
30°	492.4	493.5	494.6	498.7	499.8
32.5°	477.2	478.3	479.7	485.1	485.6
35°	460.1	462.2	464.1	468.8	470.8
37.5°	443.1	445.7	447.5	452.4	453.9
40°	425.0	427.6	430.5	435.8	436.7
42.5°	406.1	409.2	412.6	417.3	419.0
45°	387.1	390.6	393.7	397.6	399.5
47.5°	366.6	370.0	373.9	378.3	379.6
50°	345.4	349.4	353.5	357.6	359.9
52.5°	323.6	328.4	333.1	337.5	339.6
55°	302.1	305.7	311.4	315.9	318.0
57.5°	279.8	282.8	287.9	295.4	296.5
60°	257.1	259.8	265.1	271.1	273.6
62.5°	232.0	235.7	241.2	248.9	251.2
65°	207.6	211.2	218.5	227.2	230.8
67.5°	184.1	185.3	194.7	203.8	209.5
70°	156.2	160.9	171.8	183.0	187.4
72.5°	132.3	136.9	148.9	162.0	167.5
75°	105.1	111.6	127.8	143.1	148.5
77.5°	81.3	88.4	108.6	124.0	130.2
80°	56.8	67.9	89.8	107.2	113.9
82.5°	35.7	49.5	72.9	91.1	97.0
85°	18.2	33.6	57.7	76.3	83.1
87.5°	4.8	21.8	44.9	62.7	69.6
90°	0.1	12.5	34.0	51.1	57.3
92.5°	0.1	7.0	25.3	40.6	47.0
95°	0.1	3.3	17.6	32.0	36.9
97.5°	0.1	1.4	12.1	24.1	29.1
100°	0.1	0.7	7.7	17.5	21.8
102.5°	0.3	0.4	4.8	12.5	16.0
105°	0.3	0.4	2.9	8.5	11.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	0.4	0.6	2.3	3.4
115°	0.4	0.4	0.6	1.5	2.2
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°	0.3	0.4	1.7	5.8	7.9
110°	0.4	0.4	1.0	3.6	5.2



(END OF REPORT)