

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: P580659

Luminaire Tested: **HVSL8-2-LD4-1HI-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580659  
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-LD4-1HI-30-UNV-O-EDD-90  
Description: 2 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

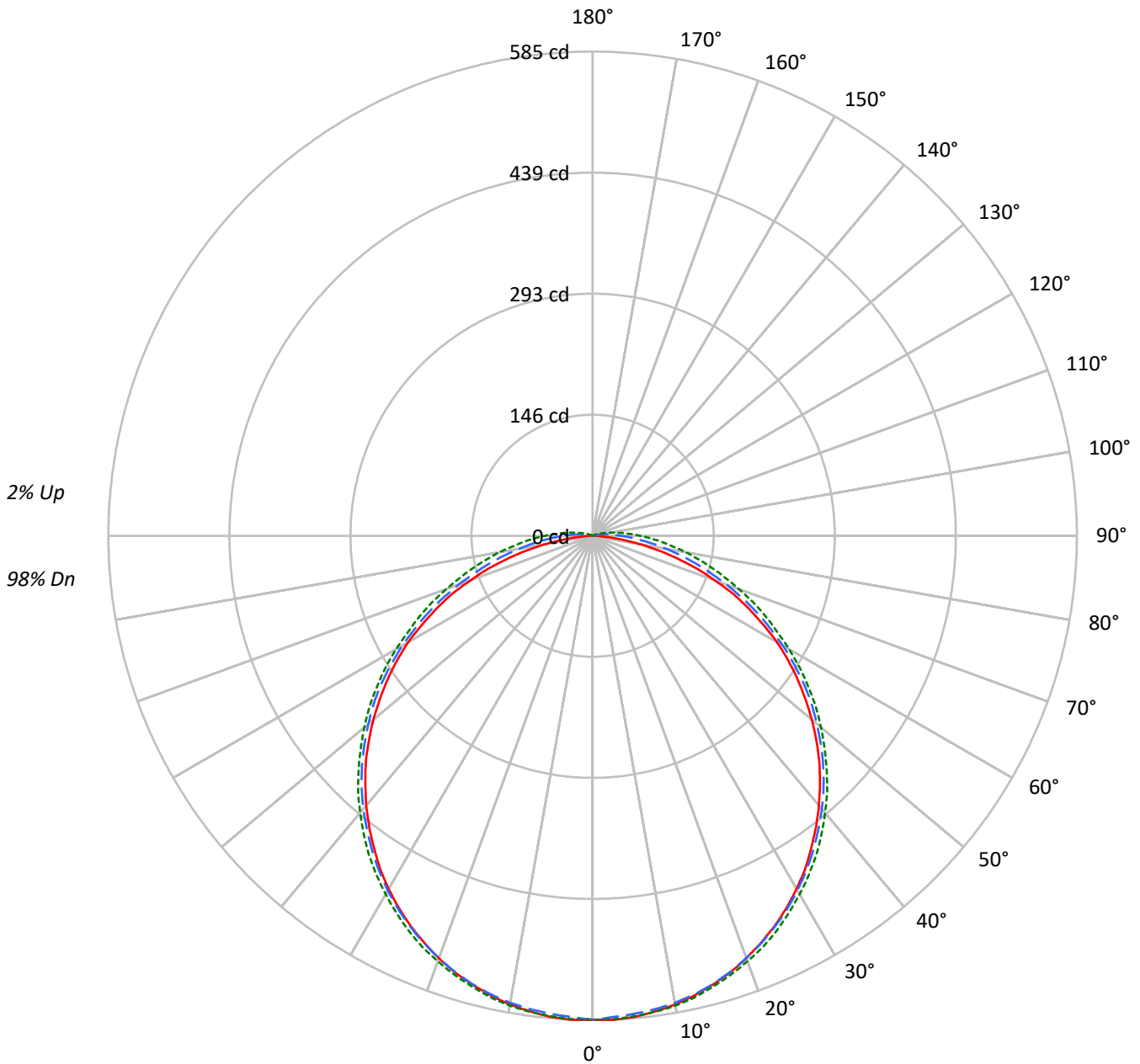
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1768.0 lumens  
Efficiency: N/A  
Efficacy: 79.6 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): 22.2  
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				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°	4720	4720	4720
5°	4694	4604	4619
10°	4646	4510	4527
15°	4589	4409	4416
20°	4528	4296	4308
25°	4459	4182	4198
30°	4382	4061	4074
35°	4287	3928	3950
40°	4189	3790	3807
45°	4083	3640	3651
50°	3948	3468	3484
55°	3802	3280	3300
60°	3629	3040	3085
65°	3366	2774	2871
70°	3002	2462	2623
75°	2503	2122	2398
80°	1793	1788	2192
85°	863	1449	1995



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.3	3.1
10°-20°	158.7	9.0
20°-30°	240.8	13.6
30°-40°	291.2	16.5
40°-50°	303.9	17.2
50°-60°	277.8	15.7
60°-70°	216.6	12.3
70°-80°	135.5	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°	454.9	25.7
0°-40°	746.1	42.2
0°-60°	1327.8	75.1
0°-90°	1741.4	98.5
90°-120°	26.6	1.5
90°-150°	26.6	1.5
90°-180°	27.0	1.5
0°-180°	1768.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	585	585	585	585	585	
5°	584	582	580	582	582	55
15°	561	562	561	564	564	158
25°	520	520	521	526	526	240
35°	460	462	464	469	471	288
45°	387	391	394	398	400	298
55°	302	306	312	316	318	270
65°	208	211	219	227	231	206
75°	105	112	128	143	149	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°	584.7	584.7	584.7	584.7	584.7
2.5°	585.4	584.6	582.0	584.6	584.5
5°	583.5	582.4	579.8	582.5	582.5
7.5°	579.6	579.2	576.9	580.1	580.1
10°	575.1	575.0	573.0	576.5	576.6
12.5°	568.8	569.3	567.5	570.8	571.2
15°	561.3	562.3	560.8	563.9	563.8
17.5°	553.2	553.7	552.6	556.2	556.1
20°	543.1	543.8	543.0	546.7	547.1
22.5°	532.0	532.9	532.8	536.6	537.7
25°	520.1	520.5	521.1	525.5	526.3
27.5°	507.0	507.7	508.7	512.7	513.5
30°	492.7	493.8	494.9	499.0	500.1
32.5°	477.5	478.6	480.0	485.4	485.9
35°	460.4	462.5	464.4	469.1	471.0
37.5°	443.3	445.9	447.7	452.7	454.2
40°	425.3	427.9	430.8	436.0	437.0
42.5°	406.4	409.4	412.9	417.5	419.2
45°	387.4	390.8	394.0	397.8	399.8
47.5°	366.8	370.3	374.1	378.5	379.8
50°	345.6	349.6	353.7	357.9	360.1
52.5°	323.8	328.6	333.3	337.7	339.8
55°	302.3	305.9	311.5	316.1	318.2
57.5°	280.0	283.0	288.1	295.5	296.6
60°	257.2	260.0	265.2	271.3	273.8
62.5°	232.1	235.9	241.4	249.1	251.3
65°	207.7	211.3	218.6	227.3	230.9
67.5°	184.2	185.4	194.8	203.9	209.7
70°	156.3	161.0	171.9	183.1	187.5
72.5°	132.3	137.0	149.0	162.1	167.6
75°	105.2	111.7	127.9	143.2	148.6
77.5°	81.3	88.5	108.6	124.1	130.3
80°	56.8	68.0	89.9	107.2	114.0
82.5°	35.7	49.5	72.9	91.1	97.0
85°	18.2	33.6	57.8	76.4	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	25.4	40.7	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)