

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: P580130

Luminaire Tested: **HVSL12-2-LD4-1STD-50-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580130  
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-LD4-1STD-50-UNV-O-EDD  
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

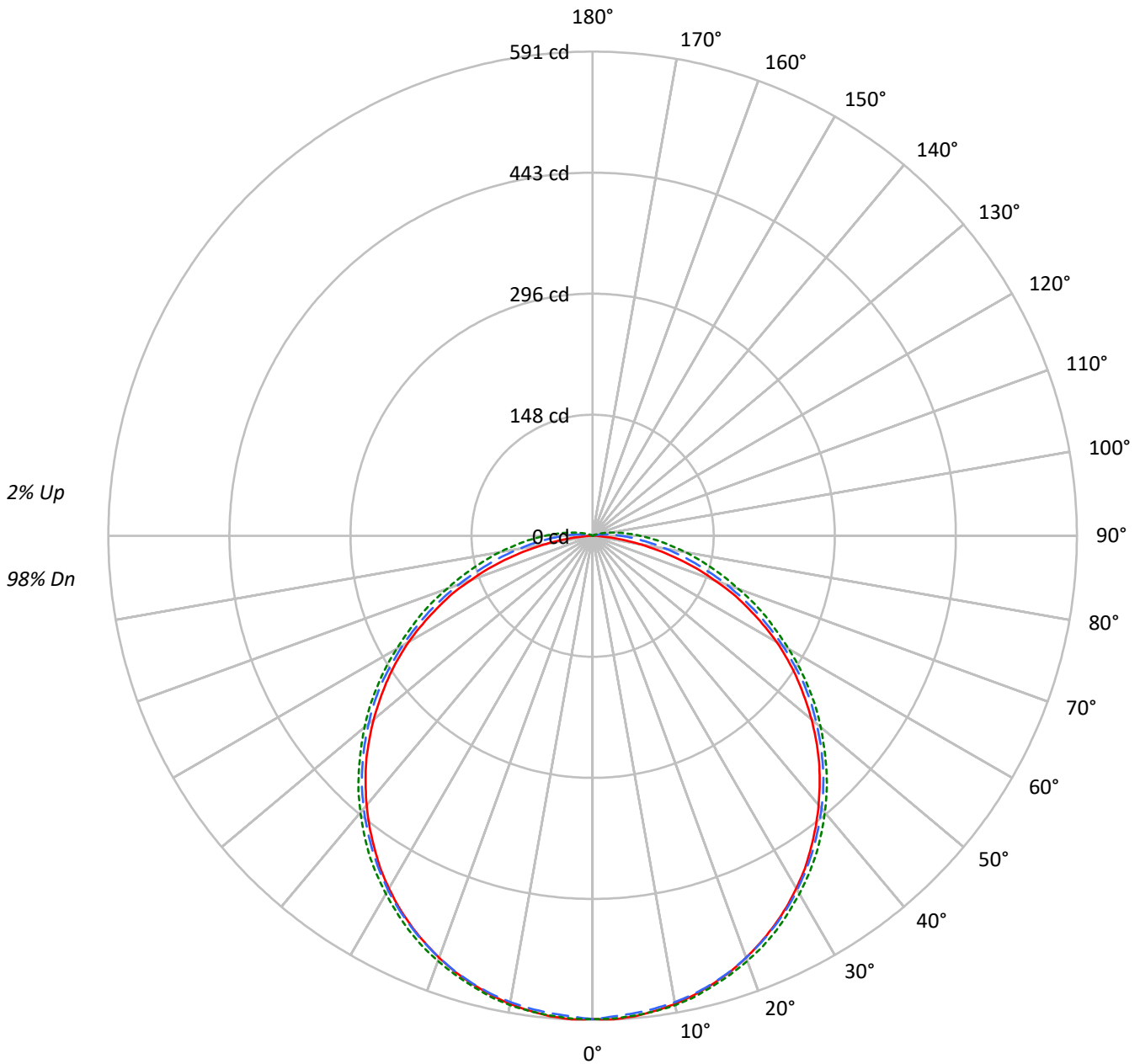
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1784.0 lumens  
Efficiency: N/A  
Efficacy: 103.1 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): 17.3  
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									
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°	3175	3175	3175
5°	3158	3112	3130
10°	3125	3064	3089
15°	3087	3010	3034
20°	3046	2948	2981
25°	3000	2885	2926
30°	2947	2816	2861
35°	2884	2740	2796
40°	2818	2659	2717
45°	2746	2571	2632
50°	2656	2468	2538
55°	2557	2355	2433
60°	2442	2205	2307
65°	2264	2037	2186
70°	2019	1838	2042
75°	1683	1617	1922
80°	1206	1404	1832
85°	582	1192	1783



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.8	3.1
10°-20°	160.2	9.0
20°-30°	243.0	13.6
30°-40°	293.8	16.5
40°-50°	306.6	17.2
50°-60°	280.3	15.7
60°-70°	218.5	12.2
70°-80°	136.7	7.7
80°-90°	62.1	3.5
90°-100°	20.8	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°	459.0	25.7
0°-40°	752.9	42.2
0°-60°	1339.8	75.1
0°-90°	1757.1	98.5
90°-120°	26.8	1.5
90°-150°	26.8	1.5
90°-180°	27.0	1.5
0°-180°	1784.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	589	588	585	588	588	56
15°	566	567	566	569	569	160
25°	525	525	526	530	531	242
35°	465	467	469	473	475	291
45°	391	394	398	401	403	301
55°	305	309	314	319	321	273
65°	210	213	221	229	233	207
75°	106	113	129	144	150	113
85°	18	34	58	77	84	23
90°	0	13	34	52	58	1
95°	0	3	18	32	37	0
105°	0	0	3	9	12	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°	590.0	590.0	590.0	590.0	590.0
2.5°	590.7	589.9	587.3	589.9	589.8
5°	588.8	587.7	585.0	587.8	587.8
7.5°	584.9	584.5	582.1	585.3	585.3
10°	580.3	580.2	578.2	581.7	581.8
12.5°	573.9	574.5	572.7	576.0	576.4
15°	566.4	567.4	565.8	569.0	568.9
17.5°	558.2	558.7	557.6	561.2	561.1
20°	548.0	548.7	547.9	551.6	552.1
22.5°	536.8	537.7	537.6	541.5	542.6
25°	524.8	525.2	525.8	530.2	531.1
27.5°	511.6	512.3	513.3	517.3	518.1
30°	497.1	498.2	499.3	503.5	504.6
32.5°	481.8	482.9	484.3	489.8	490.3
35°	464.6	466.7	468.6	473.3	475.3
37.5°	447.3	450.0	451.8	456.8	458.3
40°	429.1	431.7	434.7	440.0	440.9
42.5°	410.1	413.1	416.6	421.3	423.0
45°	390.9	394.3	397.5	401.4	403.4
47.5°	370.1	373.6	377.5	382.0	383.2
50°	348.7	352.7	356.9	361.1	363.3
52.5°	326.7	331.6	336.3	340.8	342.9
55°	305.0	308.7	314.4	318.9	321.0
57.5°	282.5	285.6	290.7	298.2	299.3
60°	259.6	262.3	267.6	273.7	276.2
62.5°	234.2	238.0	243.6	251.3	253.6
65°	209.6	213.2	220.6	229.4	233.0
67.5°	185.8	187.1	196.5	205.7	211.6
70°	157.7	162.5	173.5	184.7	189.2
72.5°	133.5	138.3	150.4	163.6	169.1
75°	106.1	112.7	129.1	144.5	149.9
77.5°	82.1	89.3	109.6	125.2	131.4
80°	57.3	68.6	90.7	108.2	115.0
82.5°	36.0	49.9	73.6	91.9	97.9
85°	18.4	33.9	58.3	77.1	83.9
87.5°	4.9	22.0	45.3	63.3	70.2
90°	0.1	12.7	34.4	51.6	57.9
92.5°	0.1	7.1	25.6	41.0	47.4
95°	0.1	3.3	17.8	32.3	37.3
97.5°	0.1	1.4	12.2	24.3	29.3
100°	0.1	0.7	7.8	17.7	22.0
102.5°	0.3	0.4	4.9	12.7	16.1
105°	0.3	0.4	2.9	8.6	11.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	0.4	0.6	2.4	3.5
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	5.3



(END OF REPORT)