

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: P580698

Luminaire Tested: **HVSL8-2-LD4-2LO-50-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580698  
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-LD4-2LO-50-UNV-O-EDD  
Description: 2 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

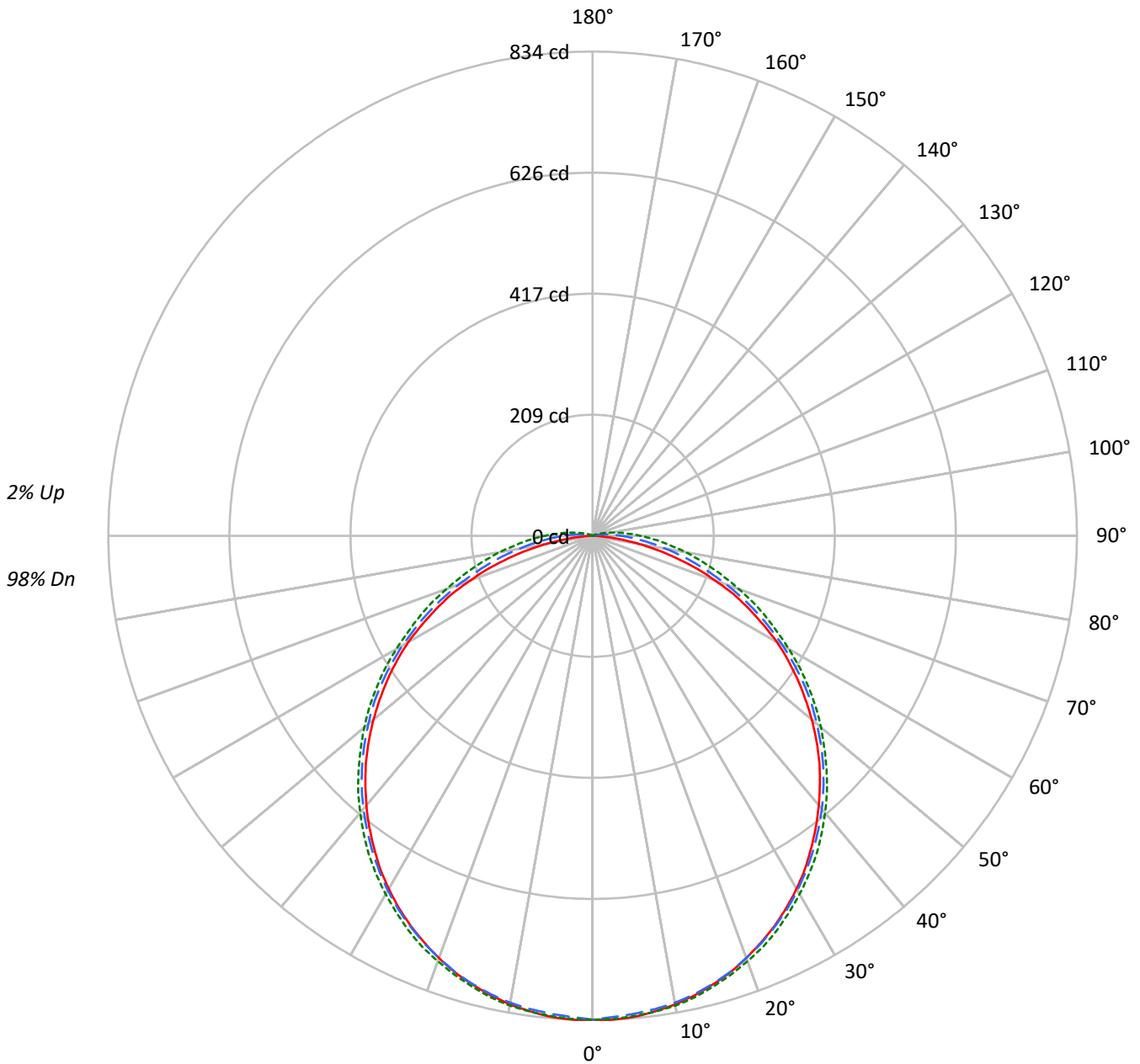
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2520.0 lumens  
Efficiency: N/A  
Efficacy: 105.9 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): 23.8  
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°	6729	6729	6729
5°	6691	6562	6585
10°	6622	6428	6453
15°	6541	6283	6295
20°	6455	6123	6140
25°	6356	5960	5985
30°	6245	5788	5806
35°	6110	5599	5631
40°	5970	5402	5425
45°	5818	5188	5204
50°	5628	4943	4966
55°	5420	4675	4703
60°	5172	4334	4396
65°	4798	3953	4092
70°	4279	3510	3739
75°	3566	3025	3417
80°	2554	2548	3124
85°	1229	2063	2845



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.9	3.1
10°-20°	226.2	9.0
20°-30°	343.3	13.6
30°-40°	415.1	16.5
40°-50°	433.1	17.2
50°-60°	396.0	15.7
60°-70°	308.7	12.2
70°-80°	193.1	7.7
80°-90°	87.7	3.5
90°-100°	29.4	1.2
100°-110°	7.4	0.3
110°-120°	1.2	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°	648.4	25.7
0°-40°	1063.5	42.2
0°-60°	1892.6	75.1
0°-90°	2482.0	98.5
90°-120°	38.0	1.5
90°-150°	38.0	1.5
90°-180°	38.0	1.5
0°-180°	2520.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	834	834	834	834	834	
5°	832	830	826	830	830	79
15°	800	801	799	804	804	226
25°	741	742	743	749	750	342
35°	656	659	662	669	671	411
45°	552	557	562	567	570	425
55°	431	436	444	450	454	385
65°	296	301	312	324	329	293
75°	150	159	182	204	212	160
85°	26	48	82	109	118	33
90°	0	18	48	73	82	1
95°	0	5	25	46	53	0
105°	0	1	4	12	16	0
115°	1	1	1	2	3	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°	833.5	833.5	833.5	833.5	833.5
2.5°	834.4	833.3	829.5	833.3	833.1
5°	831.7	830.1	826.4	830.3	830.3
7.5°	826.2	825.6	822.3	826.8	826.8
10°	819.7	819.5	816.8	821.7	821.9
12.5°	810.7	811.5	808.9	813.6	814.2
15°	800.1	801.4	799.3	803.8	803.6
17.5°	788.5	789.3	787.7	792.8	792.6
20°	774.1	775.1	773.9	779.2	779.8
22.5°	758.2	759.6	759.4	764.9	766.5
25°	741.3	741.9	742.7	749.0	750.2
27.5°	722.6	723.6	725.0	730.7	731.9
30°	702.2	703.8	705.4	711.3	712.8
32.5°	680.6	682.2	684.1	691.8	692.6
35°	656.2	659.2	661.9	668.6	671.4
37.5°	631.9	635.6	638.2	645.2	647.4
40°	606.1	609.9	614.0	621.5	622.8
42.5°	579.2	583.5	588.5	595.1	597.5
45°	552.1	557.0	561.5	567.0	569.8
47.5°	522.8	527.7	533.2	539.5	541.3
50°	492.6	498.3	504.2	510.1	513.2
52.5°	461.5	468.4	475.1	481.4	484.3
55°	430.9	436.0	444.0	450.5	453.5
57.5°	399.0	403.4	410.6	421.3	422.8
60°	366.6	370.6	378.0	386.7	390.2
62.5°	330.9	336.2	344.0	355.0	358.2
65°	296.1	301.2	311.6	324.0	329.1
67.5°	262.5	264.3	277.6	290.6	298.8
70°	222.8	229.5	245.0	260.9	267.2
72.5°	188.6	195.3	212.4	231.1	238.9
75°	149.9	159.1	182.3	204.1	211.8
77.5°	115.9	126.1	154.8	176.8	185.7
80°	80.9	96.9	128.1	152.9	162.5
82.5°	50.9	70.5	103.9	129.9	138.3
85°	25.9	47.9	82.3	108.8	118.5
87.5°	6.9	31.0	64.1	89.4	99.2
90°	0.2	17.9	48.5	72.9	81.7
92.5°	0.2	10.0	36.2	58.0	67.0
95°	0.2	4.7	25.1	45.6	52.7
97.5°	0.2	2.0	17.3	34.4	41.5
100°	0.2	1.0	11.0	25.0	31.0
102.5°	0.4	0.6	6.9	17.9	22.8
105°	0.4	0.6	4.1	12.2	16.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	0.8	3.3	4.9
115°	0.6	0.6	0.8	2.2	3.1
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°	0.4	0.6	2.4	8.3	11.2
110°	0.6	0.6	1.4	5.1	7.5



(END OF REPORT)