

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: P580681

Luminaire Tested: **HVSL8-2-LD4-1STD-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580681  
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-LD4-1STD-50-UNV-O-EDD-90  
Description: 2 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

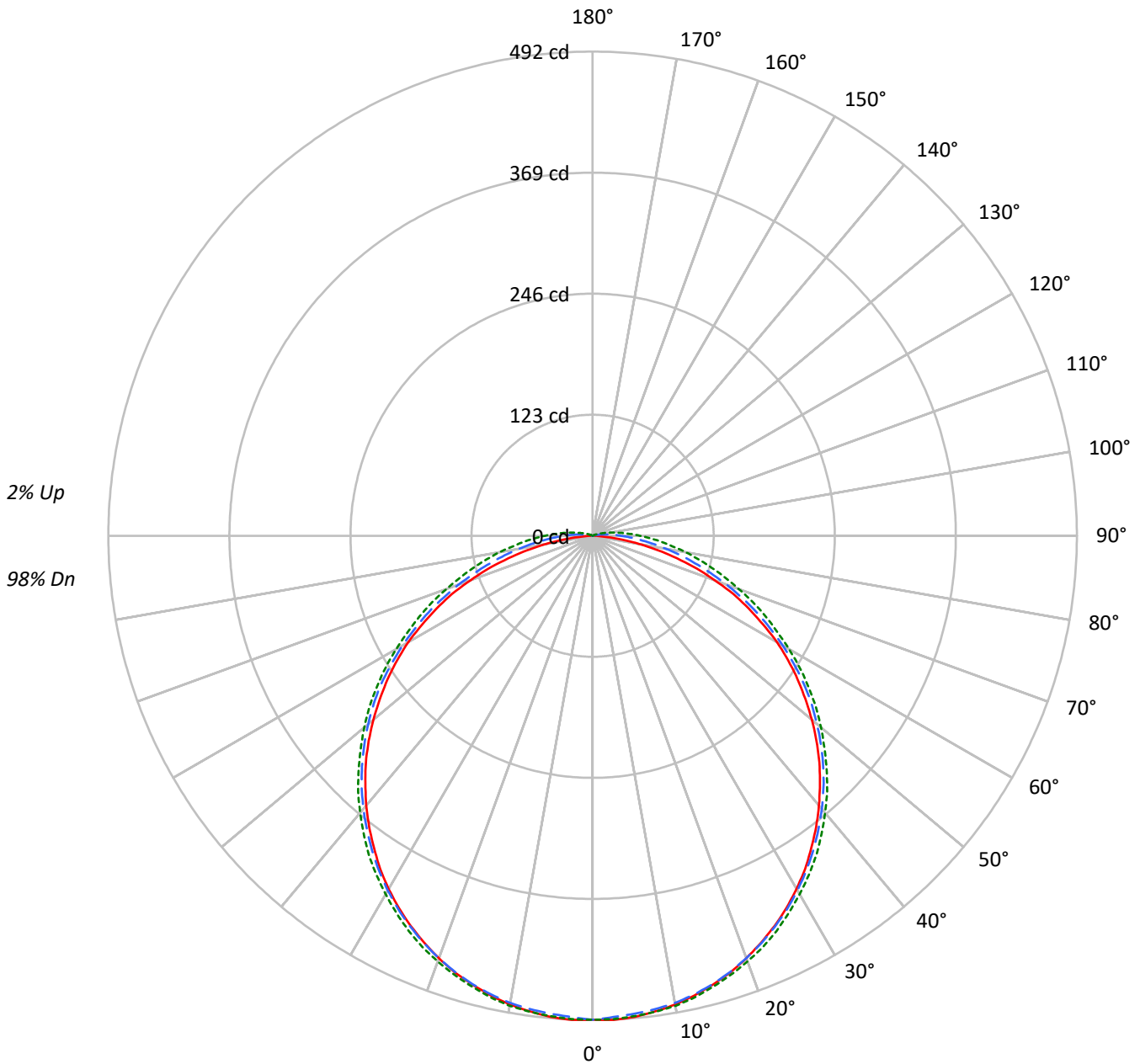
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1487.0 lumens  
Efficiency: N/A  
Efficacy: 88.5 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): 16.8  
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°	3970	3970	3970
5°	3949	3872	3886
10°	3908	3793	3808
15°	3859	3707	3714
20°	3809	3613	3624
25°	3750	3517	3532
30°	3686	3415	3426
35°	3606	3304	3323
40°	3523	3188	3201
45°	3433	3062	3071
50°	3321	2917	2930
55°	3198	2759	2775
60°	3052	2558	2595
65°	2831	2333	2415
70°	2526	2071	2206
75°	2105	1785	2017
80°	1509	1504	1844
85°	726	1218	1678



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.5	3.1
10°-20°	133.5	9.0
20°-30°	202.6	13.6
30°-40°	244.9	16.5
40°-50°	255.6	17.2
50°-60°	233.7	15.7
60°-70°	182.2	12.3
70°-80°	113.9	7.7
80°-90°	51.7	3.5
90°-100°	17.3	1.2
100°-110°	4.3	0.3
110°-120°	0.7	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°	382.6	25.7
0°-40°	627.5	42.2
0°-60°	1116.8	75.1
0°-90°	1464.6	98.5
90°-120°	22.4	1.5
90°-150°	22.4	1.5
90°-180°	22.0	1.5
0°-180°	1487.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	491	490	488	490	490	47
15°	472	473	472	474	474	133
25°	437	438	438	442	443	202
35°	387	389	391	394	396	242
45°	326	329	331	335	336	251
55°	254	257	262	266	268	227
65°	175	178	184	191	194	173
75°	88	94	108	120	125	94
85°	15	28	49	64	70	19
90°	0	11	29	43	48	1
95°	0	3	15	27	31	0
105°	0	0	2	7	10	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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	491.8	491.8	491.8	491.8	491.8
2.5°	492.4	491.7	489.5	491.7	491.6
5°	490.8	489.8	487.6	490.0	490.0
7.5°	487.5	487.2	485.2	487.9	487.9
10°	483.7	483.6	482.0	484.9	485.0
12.5°	478.4	478.8	477.3	480.1	480.4
15°	472.1	472.9	471.6	474.3	474.2
17.5°	465.3	465.7	464.8	467.8	467.7
20°	456.8	457.4	456.7	459.8	460.2
22.5°	447.4	448.2	448.1	451.3	452.3
25°	437.4	437.8	438.2	442.0	442.7
27.5°	426.4	427.0	427.8	431.2	431.9
30°	414.4	415.3	416.2	419.7	420.6
32.5°	401.6	402.5	403.7	408.2	408.7
35°	387.2	389.0	390.6	394.5	396.2
37.5°	372.9	375.1	376.6	380.7	382.0
40°	357.7	359.9	362.3	366.7	367.5
42.5°	341.8	344.3	347.2	351.2	352.6
45°	325.8	328.7	331.4	334.6	336.2
47.5°	308.5	311.4	314.7	318.4	319.4
50°	290.7	294.0	297.5	301.0	302.8
52.5°	272.3	276.4	280.3	284.0	285.8
55°	254.3	257.3	262.0	265.8	267.6
57.5°	235.5	238.0	242.3	248.6	249.5
60°	216.3	218.7	223.1	228.2	230.3
62.5°	195.2	198.4	203.0	209.5	211.4
65°	174.7	177.7	183.9	191.2	194.2
67.5°	154.9	155.9	163.8	171.5	176.3
70°	131.5	135.4	144.6	154.0	157.7
72.5°	111.3	115.2	125.3	136.3	141.0
75°	88.5	93.9	107.6	120.5	125.0
77.5°	68.4	74.4	91.4	104.3	109.6
80°	47.8	57.2	75.6	90.2	95.9
82.5°	30.0	41.6	61.3	76.6	81.6
85°	15.3	28.3	48.6	64.2	69.9
87.5°	4.1	18.3	37.8	52.8	58.5
90°	0.1	10.6	28.6	43.0	48.2
92.5°	0.1	5.9	21.3	34.2	39.5
95°	0.1	2.8	14.8	26.9	31.1
97.5°	0.1	1.2	10.2	20.3	24.5
100°	0.1	0.6	6.5	14.7	18.3
102.5°	0.2	0.3	4.1	10.6	13.4
105°	0.2	0.3	2.4	7.2	9.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.5	2.0	2.9
115°	0.3	0.3	0.5	1.3	1.9
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	1.4	4.9	6.6
110°	0.3	0.3	0.8	3.0	4.4



(END OF REPORT)