

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: P580671

Luminaire Tested: **HVSL8-2-LD4-1LO-40-UNV-O-EDD-90**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580671  
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-LD4-1LO-40-UNV-O-EDD-90  
Description: 2 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

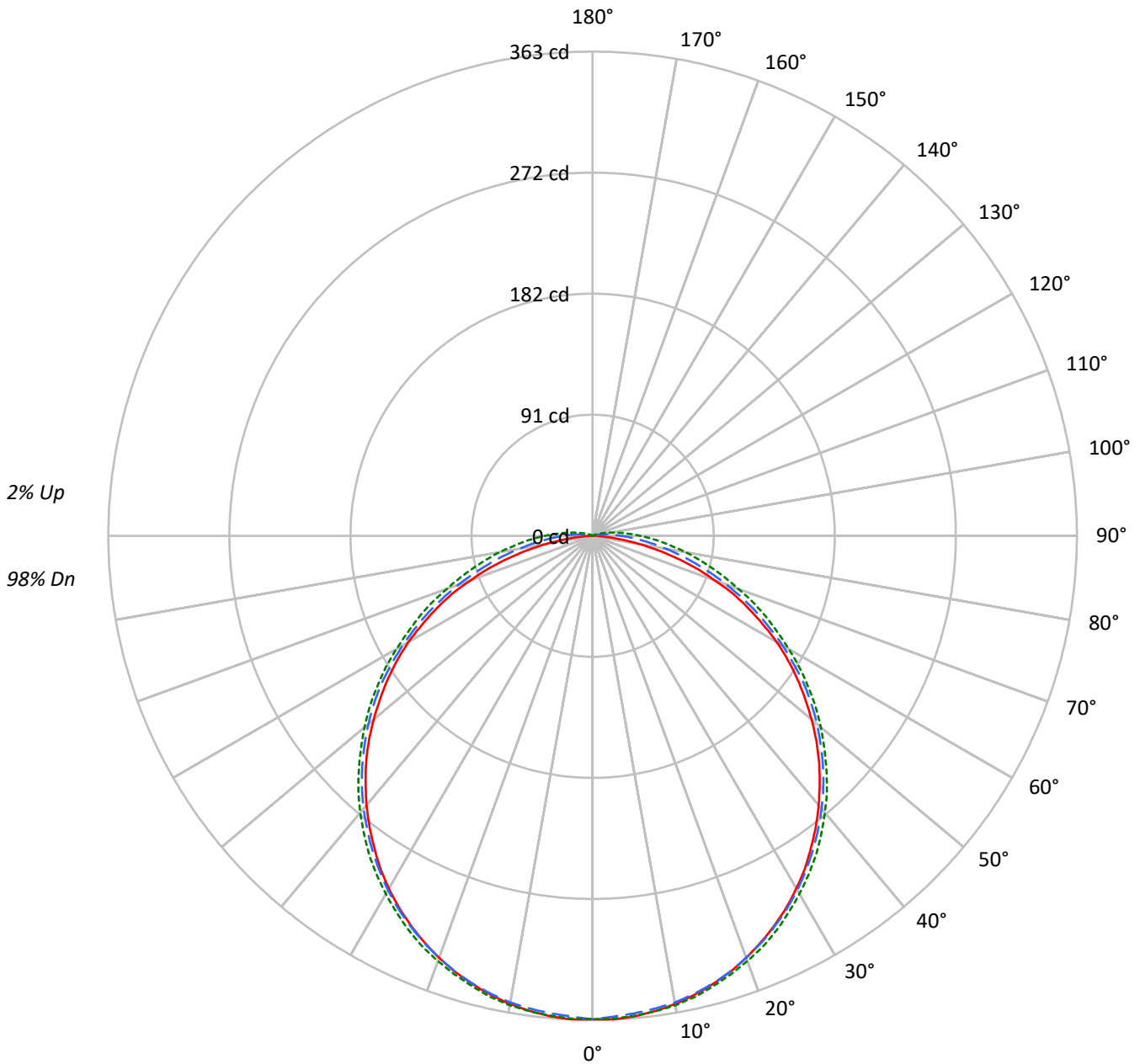
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1096.0 lumens  
Efficiency: N/A  
Efficacy: 92.1 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): 11.9  
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°	2926	2926	2926
5°	2910	2854	2864
10°	2880	2796	2806
15°	2845	2733	2738
20°	2807	2663	2671
25°	2764	2592	2603
30°	2716	2517	2525
35°	2658	2435	2449
40°	2596	2349	2360
45°	2530	2256	2263
50°	2447	2150	2160
55°	2357	2033	2045
60°	2250	1885	1912
65°	2087	1719	1779
70°	1861	1527	1626
75°	1551	1316	1486
80°	1111	1108	1359
85°	536	898	1236



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.3	3.1
10°-20°	98.4	9.0
20°-30°	149.3	13.6
30°-40°	180.5	16.5
40°-50°	188.4	17.2
50°-60°	172.2	15.7
60°-70°	134.3	12.2
70°-80°	84.0	7.7
80°-90°	38.2	3.5
90°-100°	12.8	1.2
100°-110°	3.2	0.3
110°-120°	0.5	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°	282.0	25.7
0°-40°	462.5	42.2
0°-60°	823.1	75.1
0°-90°	1079.5	98.5
90°-120°	16.5	1.5
90°-150°	16.5	1.5
90°-180°	17.0	1.6
0°-180°	1096.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	362	362	362	362	362	
5°	362	361	359	361	361	34
15°	348	349	348	350	350	98
25°	322	323	323	326	326	149
35°	285	287	288	291	292	179
45°	240	242	244	247	248	185
55°	187	190	193	196	197	167
65°	129	131	136	141	143	127
75°	65	69	79	89	92	69
85°	11	21	36	47	52	14
90°	0	8	21	32	36	0
95°	0	2	11	20	23	0
105°	0	0	2	5	7	0
115°	0	0	0	1	1	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	362.5	362.5	362.5	362.5	362.5
2.5°	362.9	362.4	360.8	362.4	362.3
5°	361.7	361.0	359.4	361.1	361.1
7.5°	359.3	359.1	357.6	359.6	359.6
10°	356.5	356.4	355.2	357.4	357.4
12.5°	352.6	352.9	351.8	353.9	354.1
15°	348.0	348.6	347.6	349.6	349.5
17.5°	342.9	343.3	342.6	344.8	344.7
20°	336.7	337.1	336.6	338.9	339.2
22.5°	329.8	330.4	330.3	332.7	333.4
25°	322.4	322.7	323.0	325.7	326.3
27.5°	314.3	314.7	315.3	317.8	318.3
30°	305.4	306.1	306.8	309.3	310.0
32.5°	296.0	296.7	297.5	300.9	301.2
35°	285.4	286.7	287.9	290.8	292.0
37.5°	274.8	276.4	277.6	280.6	281.6
40°	263.6	265.2	267.0	270.3	270.9
42.5°	251.9	253.8	255.9	258.8	259.9
45°	240.1	242.3	244.2	246.6	247.8
47.5°	227.4	229.5	231.9	234.7	235.4
50°	214.2	216.7	219.3	221.8	223.2
52.5°	200.7	203.7	206.6	209.4	210.6
55°	187.4	189.6	193.1	195.9	197.2
57.5°	173.6	175.4	178.6	183.2	183.9
60°	159.5	161.2	164.4	168.2	169.7
62.5°	143.9	146.2	149.6	154.4	155.8
65°	128.8	131.0	135.5	140.9	143.1
67.5°	114.2	114.9	120.7	126.4	130.0
70°	96.9	99.8	106.6	113.5	116.2
72.5°	82.0	84.9	92.4	100.5	103.9
75°	65.2	69.2	79.3	88.8	92.1
77.5°	50.4	54.9	67.3	76.9	80.8
80°	35.2	42.1	55.7	66.5	70.7
82.5°	22.1	30.7	45.2	56.5	60.2
85°	11.3	20.9	35.8	47.3	51.5
87.5°	3.0	13.5	27.9	38.9	43.2
90°	0.1	7.8	21.1	31.7	35.5
92.5°	0.1	4.4	15.7	25.2	29.1
95°	0.1	2.1	10.9	19.8	22.9
97.5°	0.1	0.9	7.5	15.0	18.0
100°	0.1	0.4	4.8	10.9	13.5
102.5°	0.2	0.3	3.0	7.8	9.9
105°	0.2	0.3	1.8	5.3	7.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.3	1.5	2.1
115°	0.3	0.3	0.3	0.9	1.4
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	1.0	3.6	4.9
110°	0.3	0.3	0.6	2.2	3.2



(END OF REPORT)