

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: P580675

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

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580675  
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-30-UNV-O-EDD-90  
Description: 2 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

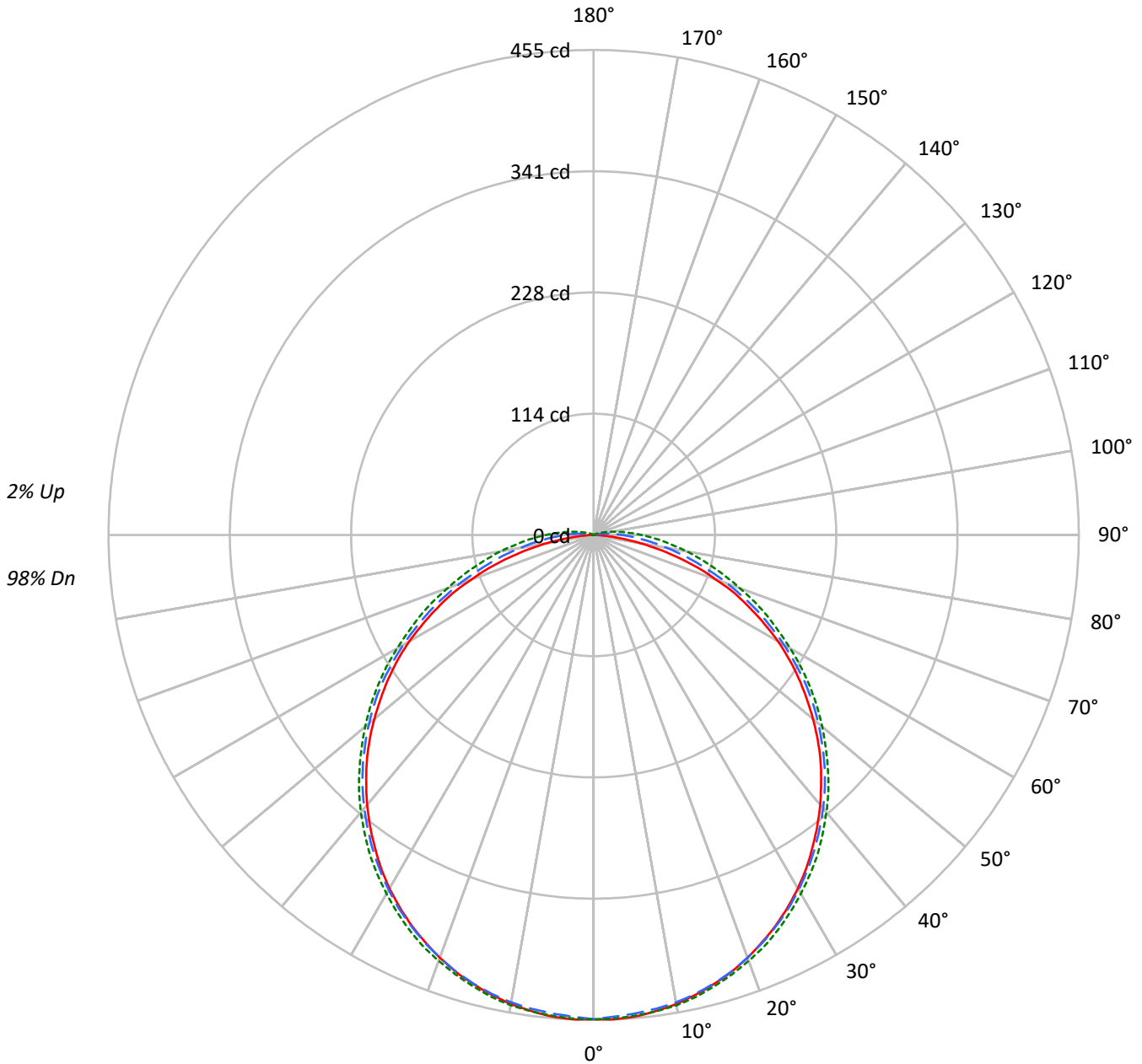
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1373.9 lumens  
Efficiency: N/A  
Efficacy: 81.8 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°	3668	3668	3668
5°	3648	3578	3590
10°	3610	3505	3518
15°	3566	3426	3432
20°	3520	3339	3348
25°	3466	3249	3263
30°	3405	3156	3166
35°	3332	3053	3070
40°	3255	2946	2958
45°	3172	2829	2838
50°	3069	2695	2707
55°	2954	2549	2565
60°	2820	2363	2397
65°	2616	2156	2231
70°	2333	1914	2039
75°	1944	1649	1864
80°	1392	1389	1703
85°	669	1126	1551



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.0	3.1
10°-20°	123.4	9.0
20°-30°	187.2	13.6
30°-40°	226.3	16.5
40°-50°	236.1	17.2
50°-60°	215.9	15.7
60°-70°	168.3	12.3
70°-80°	105.3	7.7
80°-90°	47.8	3.5
90°-100°	16.0	1.2
100°-110°	4.0	0.3
110°-120°	0.6	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°	353.5	25.7
0°-40°	579.8	42.2
0°-60°	1031.9	75.1
0°-90°	1353.3	98.5
90°-120°	20.7	1.5
90°-150°	20.7	1.5
90°-180°	21.0	1.5
0°-180°	1373.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	454	454	454	454	454	
5°	454	453	451	453	453	43
15°	436	437	436	438	438	123
25°	404	404	405	408	409	186
35°	358	359	361	365	366	224
45°	301	304	306	309	311	232
55°	235	238	242	246	247	210
65°	161	164	170	177	179	160
75°	82	87	99	111	116	87
85°	14	26	45	59	65	18
90°	0	10	26	40	45	1
95°	0	3	14	25	29	0
105°	0	0	2	7	9	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°	454.4	454.4	454.4	454.4	454.4
2.5°	455.0	454.3	452.3	454.3	454.2
5°	453.5	452.6	450.6	452.7	452.7
7.5°	450.5	450.2	448.3	450.8	450.8
10°	446.9	446.8	445.3	448.0	448.1
12.5°	442.0	442.4	441.0	443.6	443.9
15°	436.2	437.0	435.8	438.3	438.2
17.5°	429.9	430.3	429.5	432.3	432.2
20°	422.1	422.6	422.0	424.9	425.2
22.5°	413.4	414.2	414.0	417.0	417.9
25°	404.2	404.5	404.9	408.4	409.0
27.5°	394.0	394.6	395.3	398.4	399.1
30°	382.9	383.7	384.6	387.8	388.7
32.5°	371.1	371.9	373.0	377.2	377.6
35°	357.8	359.4	360.9	364.6	366.1
37.5°	344.5	346.6	348.0	351.8	353.0
40°	330.5	332.5	334.8	338.8	339.6
42.5°	315.8	318.2	320.8	324.5	325.8
45°	301.0	303.7	306.2	309.2	310.7
47.5°	285.1	287.7	290.7	294.2	295.1
50°	268.6	271.7	274.9	278.1	279.8
52.5°	251.6	255.4	259.0	262.5	264.1
55°	234.9	237.7	242.1	245.6	247.3
57.5°	217.6	219.9	223.9	229.7	230.5
60°	199.9	202.0	206.1	210.8	212.8
62.5°	180.4	183.3	187.6	193.6	195.3
65°	161.4	164.2	169.9	176.7	179.4
67.5°	143.1	144.1	151.4	158.4	162.9
70°	121.5	125.1	133.6	142.3	145.7
72.5°	102.8	106.5	115.8	126.0	130.3
75°	81.7	86.8	99.4	111.3	115.5
77.5°	63.2	68.8	84.4	96.4	101.2
80°	44.1	52.8	69.8	83.3	88.6
82.5°	27.7	38.5	56.7	70.8	75.4
85°	14.1	26.1	44.9	59.3	64.6
87.5°	3.7	16.9	34.9	48.7	54.1
90°	0.1	9.7	26.5	39.7	44.6
92.5°	0.1	5.5	19.7	31.6	36.5
95°	0.1	2.6	13.7	24.9	28.7
97.5°	0.1	1.1	9.4	18.7	22.6
100°	0.1	0.5	6.0	13.6	16.9
102.5°	0.2	0.3	3.7	9.7	12.4
105°	0.2	0.3	2.2	6.6	8.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.4	1.8	2.7
115°	0.3	0.3	0.4	1.2	1.7
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	1.3	4.5	6.1
110°	0.3	0.3	0.7	2.8	4.1



(END OF REPORT)