

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: P580128

Luminaire Tested: **HVSL12-2-LD4-1STD-40-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580128  
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-40-UNV-O-EDD  
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

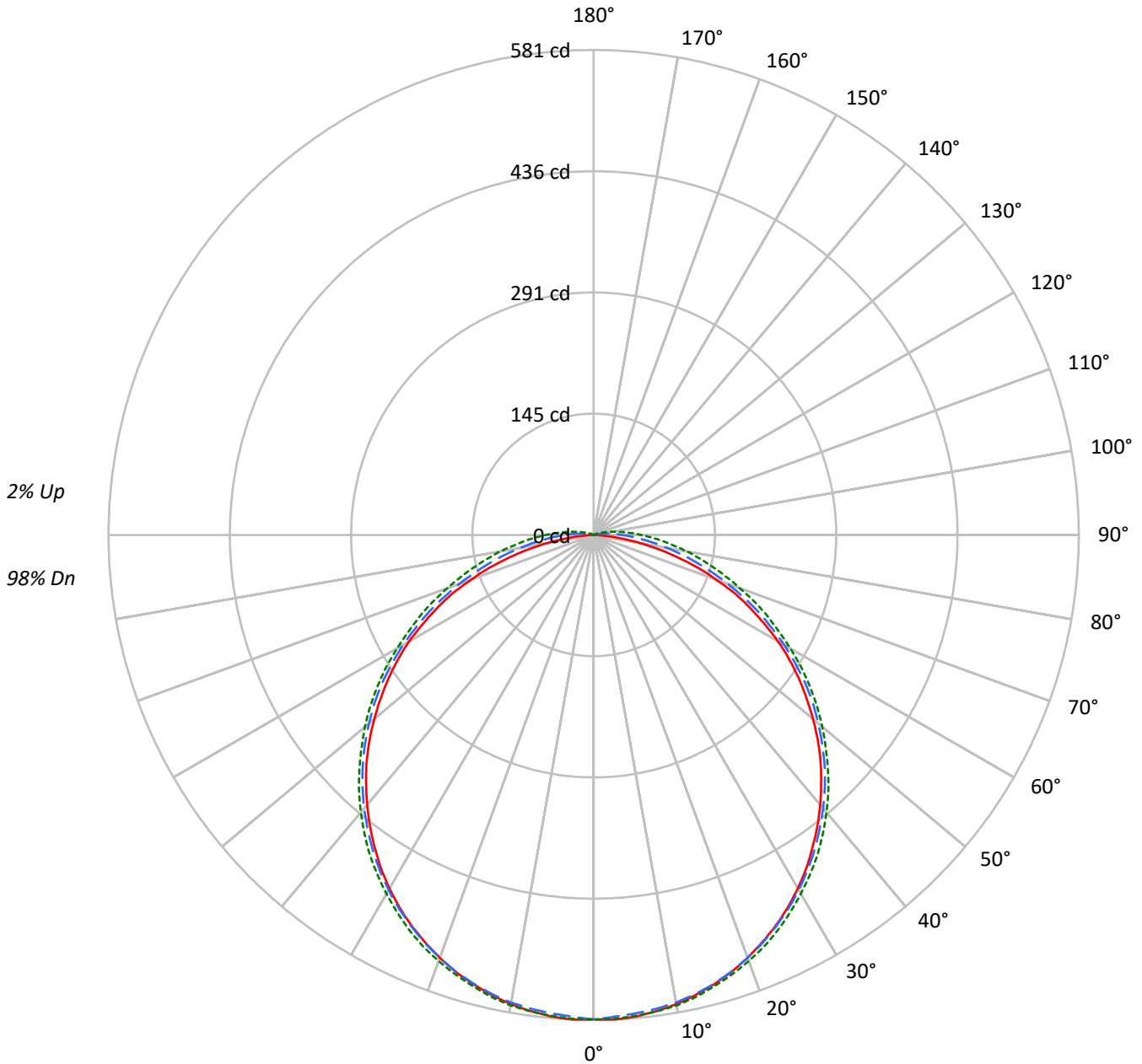
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1755.0 lumens  
Efficiency: N/A  
Efficacy: 101.4 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°	3124	3124	3124
5°	3106	3062	3079
10°	3075	3015	3039
15°	3037	2961	2985
20°	2997	2900	2933
25°	2951	2837	2878
30°	2899	2770	2814
35°	2837	2695	2751
40°	2772	2616	2674
45°	2701	2530	2589
50°	2612	2428	2496
55°	2516	2316	2393
60°	2401	2170	2270
65°	2228	2004	2150
70°	1987	1807	2009
75°	1656	1591	1891
80°	1187	1380	1803
85°	572	1171	1753



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.9	3.1
10°-20°	157.6	9.0
20°-30°	239.1	13.6
30°-40°	289.1	16.5
40°-50°	301.6	17.2
50°-60°	275.8	15.7
60°-70°	215.0	12.2
70°-80°	134.5	7.7
80°-90°	61.1	3.5
90°-100°	20.5	1.2
100°-110°	5.1	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°	451.6	25.7
0°-40°	740.6	42.2
0°-60°	1318.0	75.1
0°-90°	1728.6	98.5
90°-120°	26.4	1.5
90°-150°	26.4	1.5
90°-180°	26.0	1.5
0°-180°	1755.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	580	580	580	580	580	
5°	579	578	576	578	578	55
15°	557	558	557	560	560	157
25°	516	517	517	522	522	238
35°	457	459	461	466	468	286
45°	384	388	391	395	397	296
55°	300	304	309	314	316	268
65°	206	210	217	226	229	204
75°	104	111	127	142	148	111
85°	18	33	57	76	82	23
90°	0	12	34	51	57	1
95°	0	3	18	32	37	0
105°	0	0	3	8	11	0
115°	0	0	0	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°	580.4	580.4	580.4	580.4	580.4
2.5°	581.1	580.3	577.7	580.3	580.2
5°	579.2	578.1	575.5	578.3	578.3
7.5°	575.4	575.0	572.6	575.8	575.8
10°	570.9	570.7	568.8	572.2	572.4
12.5°	564.6	565.1	563.3	566.6	567.0
15°	557.2	558.1	556.6	559.8	559.6
17.5°	549.1	549.7	548.6	552.1	552.0
20°	539.1	539.8	539.0	542.7	543.1
22.5°	528.0	529.0	528.9	532.7	533.8
25°	516.3	516.7	517.2	521.6	522.4
27.5°	503.3	504.0	504.9	508.9	509.7
30°	489.0	490.1	491.2	495.3	496.4
32.5°	474.0	475.1	476.5	481.8	482.3
35°	457.0	459.1	461.0	465.6	467.6
37.5°	440.1	442.7	444.4	449.4	450.9
40°	422.1	424.7	427.6	432.8	433.8
42.5°	403.4	406.4	409.8	414.5	416.1
45°	384.5	387.9	391.1	394.9	396.8
47.5°	364.1	367.5	371.4	375.7	377.0
50°	343.0	347.0	351.1	355.2	357.4
52.5°	321.4	326.2	330.9	335.2	337.3
55°	300.1	303.6	309.2	313.8	315.8
57.5°	277.9	280.9	286.0	293.4	294.5
60°	255.3	258.1	263.3	269.3	271.8
62.5°	230.4	234.1	239.6	247.3	249.4
65°	206.2	209.8	217.0	225.6	229.2
67.5°	182.8	184.0	193.3	202.4	208.1
70°	155.2	159.8	170.6	181.7	186.1
72.5°	131.4	136.0	147.9	160.9	166.4
75°	104.4	110.8	127.0	142.2	147.5
77.5°	80.7	87.8	107.8	123.2	129.3
80°	56.4	67.5	89.2	106.5	113.2
82.5°	35.4	49.1	72.4	90.4	96.3
85°	18.1	33.4	57.3	75.8	82.5
87.5°	4.8	21.6	44.6	62.3	69.1
90°	0.1	12.5	33.8	50.8	56.9
92.5°	0.1	7.0	25.2	40.4	46.7
95°	0.1	3.3	17.5	31.7	36.7
97.5°	0.1	1.4	12.0	23.9	28.9
100°	0.1	0.7	7.7	17.4	21.6
102.5°	0.3	0.4	4.8	12.5	15.9
105°	0.3	0.4	2.9	8.5	11.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	0.4	0.5	2.3	3.4
115°	0.4	0.4	0.5	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	1.6	5.7	7.8
110°	0.4	0.4	1.0	3.6	5.2



(END OF REPORT)