

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: P580126

Luminaire Tested: **HVSL12-2-LD4-1STD-35-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580126  
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-35-UNV-O-EDD  
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

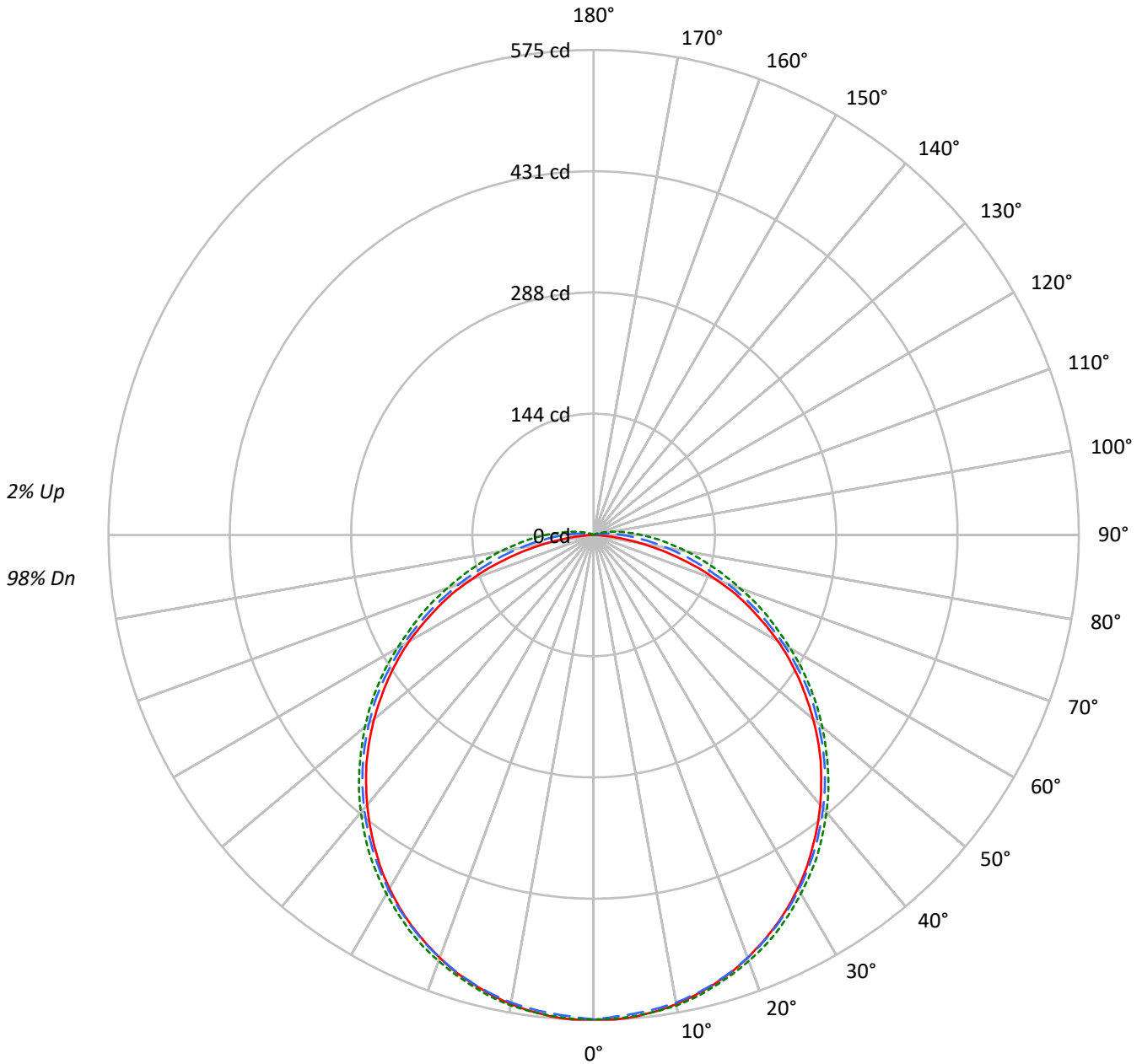
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1737.0 lumens  
Efficiency: N/A  
Efficacy: 100.4 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°	3092	3092	3092
5°	3075	3030	3047
10°	3043	2984	3008
15°	3006	2931	2954
20°	2966	2871	2902
25°	2921	2808	2849
30°	2870	2742	2785
35°	2808	2668	2723
40°	2743	2589	2646
45°	2674	2504	2562
50°	2586	2403	2471
55°	2490	2293	2369
60°	2377	2147	2247
65°	2205	1983	2128
70°	1967	1789	1988
75°	1638	1575	1872
80°	1174	1366	1784
85°	566	1159	1736



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.4	3.1
10°-20°	155.9	9.0
20°-30°	236.6	13.6
30°-40°	286.1	16.5
40°-50°	298.5	17.2
50°-60°	272.9	15.7
60°-70°	212.8	12.2
70°-80°	133.1	7.7
80°-90°	60.4	3.5
90°-100°	20.3	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°	446.9	25.7
0°-40°	733.0	42.2
0°-60°	1304.5	75.1
0°-90°	1710.8	98.5
90°-120°	26.1	1.5
90°-150°	26.1	1.5
90°-180°	26.0	1.5
0°-180°	1737.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	574	574	574	574	574	
5°	573	572	570	572	572	54
15°	552	552	551	554	554	156
25°	511	511	512	516	517	235
35°	452	454	456	461	463	283
45°	381	384	387	391	393	293
55°	297	300	306	310	313	265
65°	204	208	215	223	227	202
75°	103	110	126	141	146	110
85°	18	33	57	75	82	23
90°	0	12	34	50	56	1
95°	0	3	17	31	36	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



TEST NUMBER: P580126

CATALOG NUMBER: HVSL12-2-LD4-1STD-35-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	574.5	574.5	574.5	574.5	574.5
2.5°	575.2	574.4	571.8	574.4	574.2
5°	573.3	572.2	569.6	572.3	572.3
7.5°	569.5	569.1	566.8	569.9	569.9
10°	565.0	564.9	563.0	566.4	566.5
12.5°	558.8	559.3	557.6	560.8	561.2
15°	551.5	552.4	550.9	554.0	553.9
17.5°	543.5	544.0	542.9	546.5	546.3
20°	533.6	534.3	533.5	537.1	537.5
22.5°	522.6	523.6	523.4	527.2	528.3
25°	511.0	511.4	511.9	516.3	517.1
27.5°	498.1	498.8	499.7	503.7	504.5
30°	484.0	485.1	486.2	490.3	491.3
32.5°	469.1	470.2	471.6	476.8	477.4
35°	452.3	454.4	456.3	460.9	462.8
37.5°	435.5	438.1	439.9	444.8	446.2
40°	417.8	420.4	423.2	428.4	429.3
42.5°	399.2	402.2	405.6	410.2	411.8
45°	380.6	383.9	387.1	390.9	392.7
47.5°	360.4	363.8	367.6	371.9	373.1
50°	339.5	343.5	347.5	351.6	353.7
52.5°	318.1	322.9	327.5	331.8	333.8
55°	297.0	300.5	306.1	310.5	312.6
57.5°	275.1	278.0	283.0	290.4	291.4
60°	252.7	255.4	260.6	266.5	269.0
62.5°	228.1	231.7	237.1	244.7	246.9
65°	204.1	207.6	214.8	223.3	226.8
67.5°	180.9	182.2	191.4	200.3	206.0
70°	153.6	158.2	168.9	179.9	184.2
72.5°	130.0	134.6	146.4	159.3	164.7
75°	103.3	109.7	125.7	140.7	146.0
77.5°	79.9	86.9	106.7	121.9	128.0
80°	55.8	66.8	88.3	105.4	112.0
82.5°	35.1	48.6	71.6	89.5	95.3
85°	17.9	33.0	56.7	75.0	81.7
87.5°	4.7	21.4	44.2	61.6	68.4
90°	0.1	12.3	33.5	50.2	56.3
92.5°	0.1	6.9	24.9	40.0	46.2
95°	0.1	3.3	17.3	31.4	36.3
97.5°	0.1	1.4	11.9	23.7	28.6
100°	0.1	0.7	7.6	17.2	21.4
102.5°	0.3	0.4	4.7	12.3	15.7
105°	0.3	0.4	2.8	8.4	11.2



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CATALOG NUMBER: HVSL12-2-LD4-1STD-35-UNV-O-EDD

**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	7.7
110°	0.4	0.4	0.9	3.5	5.1



(END OF REPORT)