

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: P580149

Luminaire Tested: **HVSL12-2-LD4-2STD-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580149  
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-LD4-2STD-35-UNV-O-EDD-90  
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

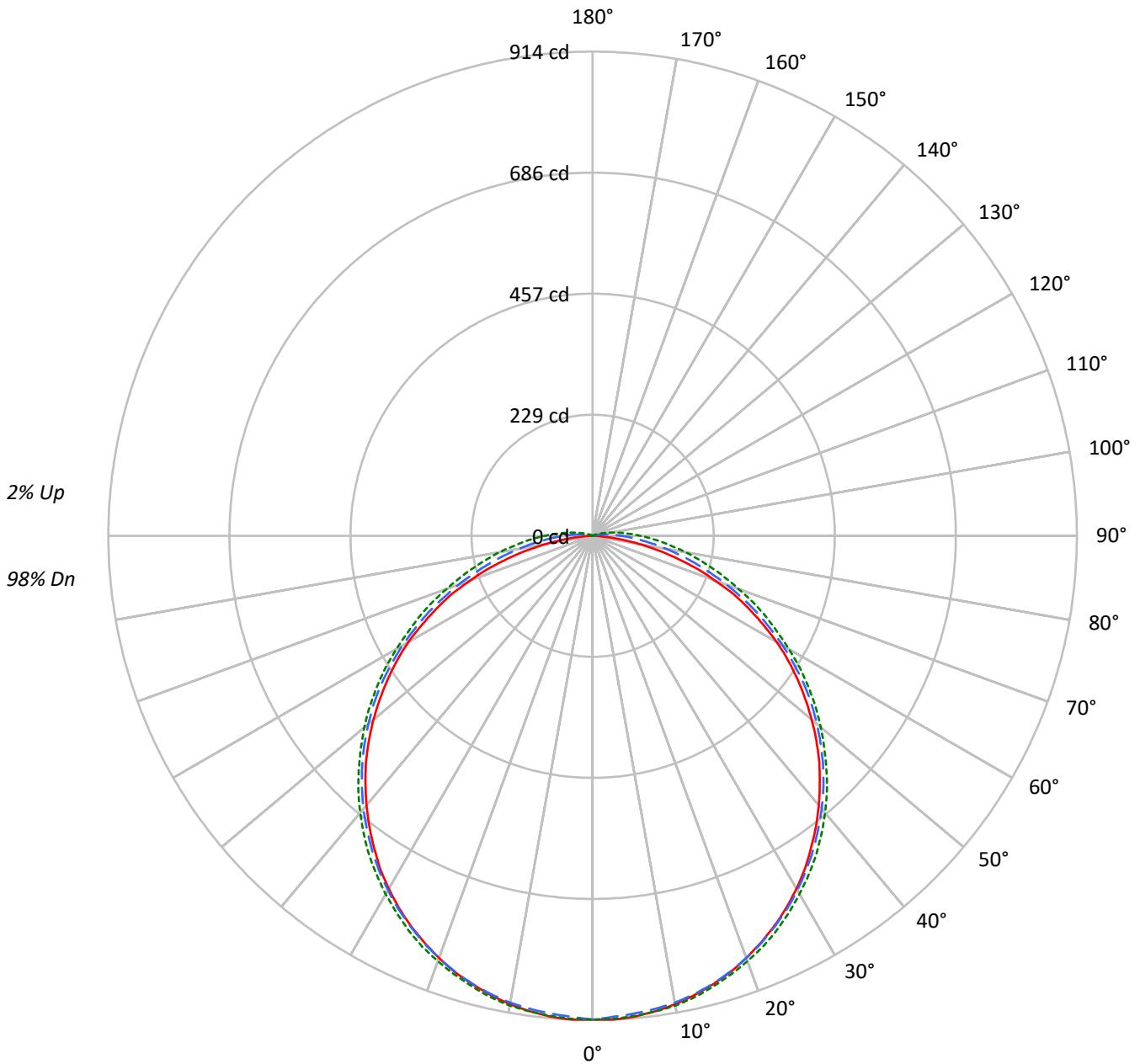
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2761.0 lumens  
Efficiency: N/A  
Efficacy: 79.8 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): 34.6  
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				20				20
RC	80				70				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°	4915	4915	4915
5°	4887	4817	4844
10°	4837	4743	4781
15°	4778	4659	4696
20°	4715	4563	4614
25°	4643	4464	4529
30°	4562	4358	4427
35°	4463	4240	4328
40°	4361	4116	4206
45°	4250	3979	4073
50°	4111	3820	3928
55°	3959	3645	3765
60°	3778	3413	3571
65°	3505	3152	3383
70°	3125	2843	3160
75°	2606	2503	2975
80°	1867	2173	2836
85°	898	1844	2759



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.4	3.1
10°-20°	247.9	9.0
20°-30°	376.1	13.6
30°-40°	454.8	16.5
40°-50°	474.5	17.2
50°-60°	433.8	15.7
60°-70°	338.2	12.2
70°-80°	211.6	7.7
80°-90°	96.1	3.5
90°-100°	32.2	1.2
100°-110°	8.1	0.3
110°-120°	1.3	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°	710.4	25.7
0°-40°	1165.2	42.2
0°-60°	2073.5	75.1
0°-90°	2719.4	98.5
90°-120°	41.6	1.5
90°-150°	41.6	1.5
90°-180°	42.0	1.5
0°-180°	2761.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	913	913	913	913	913	
5°	911	910	905	910	910	87
15°	877	878	876	881	880	247
25°	812	813	814	821	822	374
35°	719	722	725	733	736	450
45°	605	610	615	621	624	466
55°	472	478	486	494	497	422
65°	324	330	341	355	361	321
75°	164	174	200	224	232	175
85°	28	52	90	119	130	36
90°	0	20	53	80	90	1
95°	0	5	28	50	58	0
105°	0	1	4	13	18	0
115°	1	1	1	2	3	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: P580149

CATALOG NUMBER: HVSL12-2-LD4-2STD-35-UNV-O-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	913.2	913.2	913.2	913.2	913.2
2.5°	914.2	913.0	908.9	913.0	912.7
5°	911.2	909.5	905.4	909.7	909.7
7.5°	905.2	904.6	900.9	905.9	905.9
10°	898.1	897.9	894.9	900.3	900.5
12.5°	888.2	889.1	886.3	891.4	892.1
15°	876.6	878.1	875.7	880.7	880.5
17.5°	863.9	864.7	863.0	868.6	868.4
20°	848.2	849.2	847.9	853.8	854.4
22.5°	830.7	832.2	832.0	838.0	839.8
25°	812.2	812.9	813.7	820.6	821.9
27.5°	791.8	792.8	794.3	800.6	801.9
30°	769.4	771.1	772.8	779.3	781.0
32.5°	745.7	747.4	749.6	758.0	758.8
35°	719.0	722.2	725.2	732.6	735.6
37.5°	692.3	696.4	699.2	706.9	709.3
40°	664.1	668.2	672.7	680.9	682.4
42.5°	634.6	639.3	644.7	652.1	654.6
45°	604.9	610.3	615.2	621.3	624.3
47.5°	572.8	578.2	584.2	591.1	593.1
50°	539.7	545.9	552.4	558.8	562.3
52.5°	505.7	513.2	520.5	527.4	530.6
55°	472.1	477.7	486.5	493.6	496.8
57.5°	437.2	441.9	449.9	461.5	463.3
60°	401.7	406.0	414.2	423.6	427.5
62.5°	362.5	368.3	376.9	389.0	392.4
65°	324.4	330.0	341.4	355.0	360.6
67.5°	287.6	289.5	304.2	318.4	327.4
70°	244.1	251.4	268.4	285.9	292.8
72.5°	206.7	214.0	232.7	253.2	261.8
75°	164.3	174.4	199.8	223.7	232.1
77.5°	127.0	138.2	169.6	193.7	203.4
80°	88.7	106.1	140.4	167.5	178.0
82.5°	55.8	77.3	113.9	142.3	151.5
85°	28.4	52.5	90.2	119.3	129.8
87.5°	7.5	34.0	70.2	97.9	108.7
90°	0.2	19.6	53.2	79.9	89.6
92.5°	0.2	11.0	39.6	63.5	73.4
95°	0.2	5.2	27.6	49.9	57.7
97.5°	0.2	2.2	18.9	37.7	45.4
100°	0.2	1.1	12.1	27.3	34.0
102.5°	0.4	0.6	7.5	19.6	25.0
105°	0.4	0.6	4.5	13.3	17.9



TEST NUMBER: P580149

CATALOG NUMBER: HVSL12-2-LD4-2STD-35-UNV-O-EDD-90

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	0.9	3.7	5.4
115°	0.6	0.6	0.9	2.4	3.4
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°	0.4	0.6	2.6	9.0	12.3
110°	0.6	0.6	1.5	5.6	8.2



(END OF REPORT)