

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: P580110

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

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580110  
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-LD4-1HI-35-UNV-O-EDD  
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

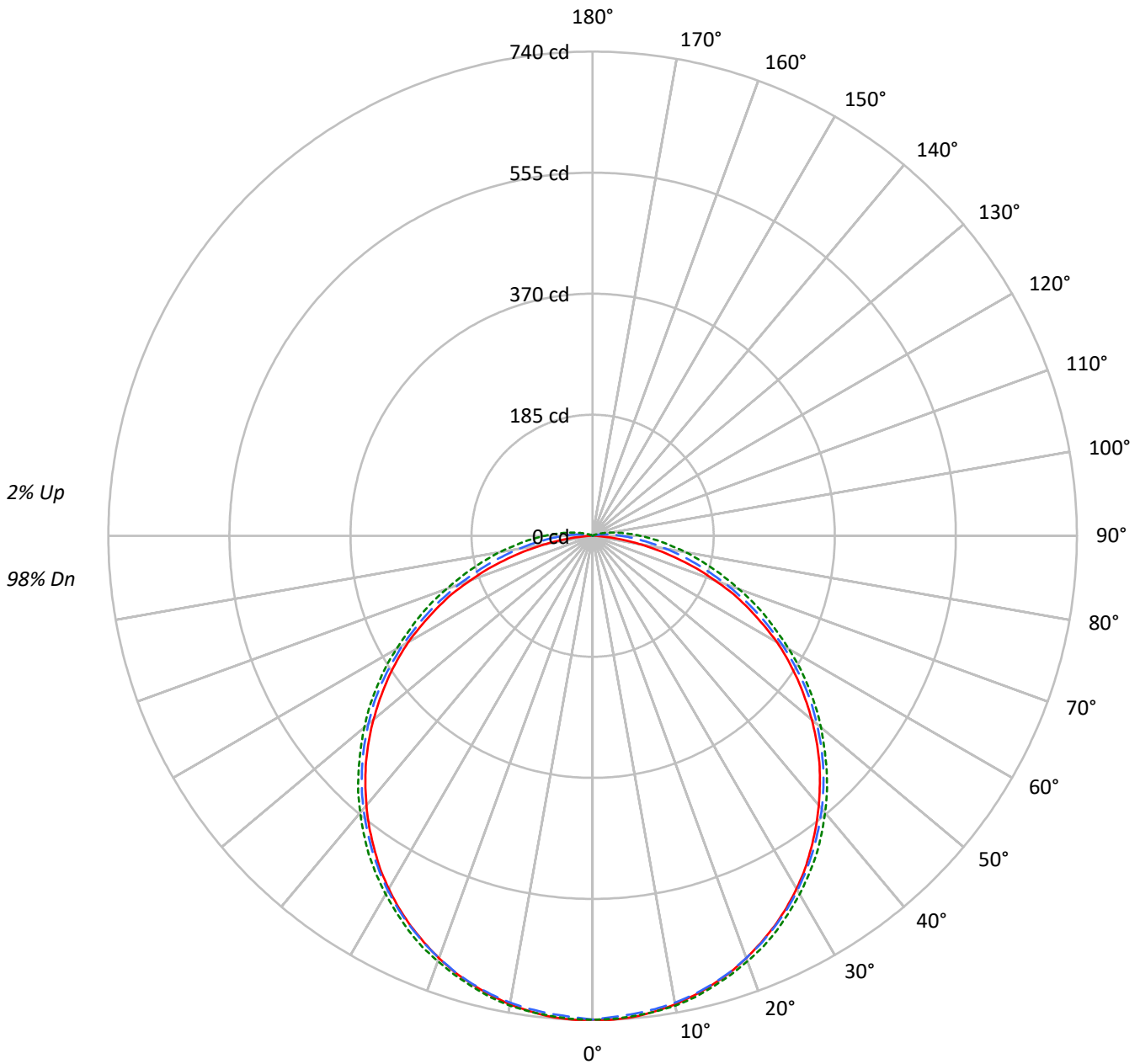
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2236.0 lumens  
Efficiency: N/A  
Efficacy: 98.1 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): 22.8  
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°	3980	3980	3980
5°	3958	3901	3923
10°	3917	3841	3871
15°	3869	3773	3803
20°	3818	3695	3736
25°	3760	3615	3667
30°	3694	3529	3586
35°	3615	3434	3505
40°	3531	3333	3406
45°	3442	3223	3298
50°	3329	3093	3181
55°	3206	2952	3050
60°	3060	2764	2892
65°	2838	2553	2739
70°	2531	2302	2559
75°	2109	2027	2409
80°	1511	1760	2297
85°	727	1492	2234



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.0	3.1
10°-20°	200.7	9.0
20°-30°	304.6	13.6
30°-40°	368.3	16.5
40°-50°	384.3	17.2
50°-60°	351.4	15.7
60°-70°	273.9	12.2
70°-80°	171.3	7.7
80°-90°	77.8	3.5
90°-100°	26.1	1.2
100°-110°	6.5	0.3
110°-120°	1.0	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°	575.3	25.7
0°-40°	943.6	42.2
0°-60°	1679.3	75.1
0°-90°	2202.3	98.5
90°-120°	33.6	1.5
90°-150°	33.6	1.5
90°-180°	34.0	1.5
0°-180°	2236.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	740	740	740	740	740	
5°	738	737	733	737	737	70
15°	710	711	709	713	713	200
25°	658	658	659	665	666	303
35°	582	585	587	593	596	364
45°	490	494	498	503	506	377
55°	382	387	394	400	402	342
65°	263	267	276	288	292	260
75°	133	141	162	181	188	142
85°	23	42	73	97	105	29
90°	0	16	43	65	72	1
95°	0	4	22	40	47	0
105°	0	0	4	11	14	0
115°	0	0	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



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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	739.5	739.5	739.5	739.5	739.5
2.5°	740.4	739.4	736.0	739.4	739.2
5°	738.0	736.6	733.3	736.7	736.7
7.5°	733.1	732.6	729.6	733.6	733.6
10°	727.3	727.2	724.7	729.1	729.2
12.5°	719.3	720.0	717.7	721.9	722.4
15°	709.9	711.1	709.2	713.2	713.0
17.5°	699.6	700.3	698.9	703.4	703.3
20°	686.9	687.8	686.7	691.4	691.9
22.5°	672.8	674.0	673.8	678.7	680.1
25°	657.8	658.3	659.0	664.6	665.6
27.5°	641.2	642.1	643.3	648.4	649.4
30°	623.1	624.5	625.9	631.1	632.5
32.5°	603.9	605.3	607.0	613.8	614.5
35°	582.3	584.9	587.3	593.3	595.7
37.5°	560.7	564.0	566.2	572.5	574.4
40°	537.8	541.1	544.8	551.4	552.6
42.5°	513.9	517.8	522.1	528.1	530.2
45°	489.9	494.2	498.3	503.1	505.6
47.5°	463.9	468.3	473.1	478.7	480.3
50°	437.1	442.1	447.3	452.6	455.4
52.5°	409.5	415.6	421.5	427.1	429.7
55°	382.3	386.9	394.0	399.8	402.4
57.5°	354.1	357.9	364.4	373.8	375.2
60°	325.3	328.8	335.4	343.1	346.2
62.5°	293.6	298.3	305.3	315.0	317.8
65°	262.7	267.3	276.5	287.5	292.0
67.5°	232.9	234.5	246.3	257.8	265.2
70°	197.7	203.6	217.4	231.5	237.1
72.5°	167.4	173.3	188.5	205.0	212.0
75°	133.0	141.2	161.8	181.1	187.9
77.5°	102.9	111.9	137.4	156.9	164.7
80°	71.8	85.9	113.7	135.6	144.2
82.5°	45.2	62.6	92.2	115.2	122.7
85°	23.0	42.5	73.0	96.6	105.1
87.5°	6.1	27.5	56.8	79.3	88.0
90°	0.2	15.9	43.1	64.7	72.5
92.5°	0.2	8.9	32.1	51.4	59.4
95°	0.2	4.2	22.3	40.4	46.7
97.5°	0.2	1.7	15.3	30.5	36.8
100°	0.2	0.9	9.8	22.1	27.5
102.5°	0.3	0.5	6.1	15.9	20.2
105°	0.3	0.5	3.7	10.8	14.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	0.5	0.7	3.0	4.4
115°	0.5	0.5	0.7	1.9	2.8
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	0.5	2.1	7.3	9.9
110°	0.5	0.5	1.2	4.5	6.6



(END OF REPORT)