

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: P580153

Luminaire Tested: **HVSL12-2-LD4-2STD-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580153  
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-50-UNV-O-EDD-90  
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

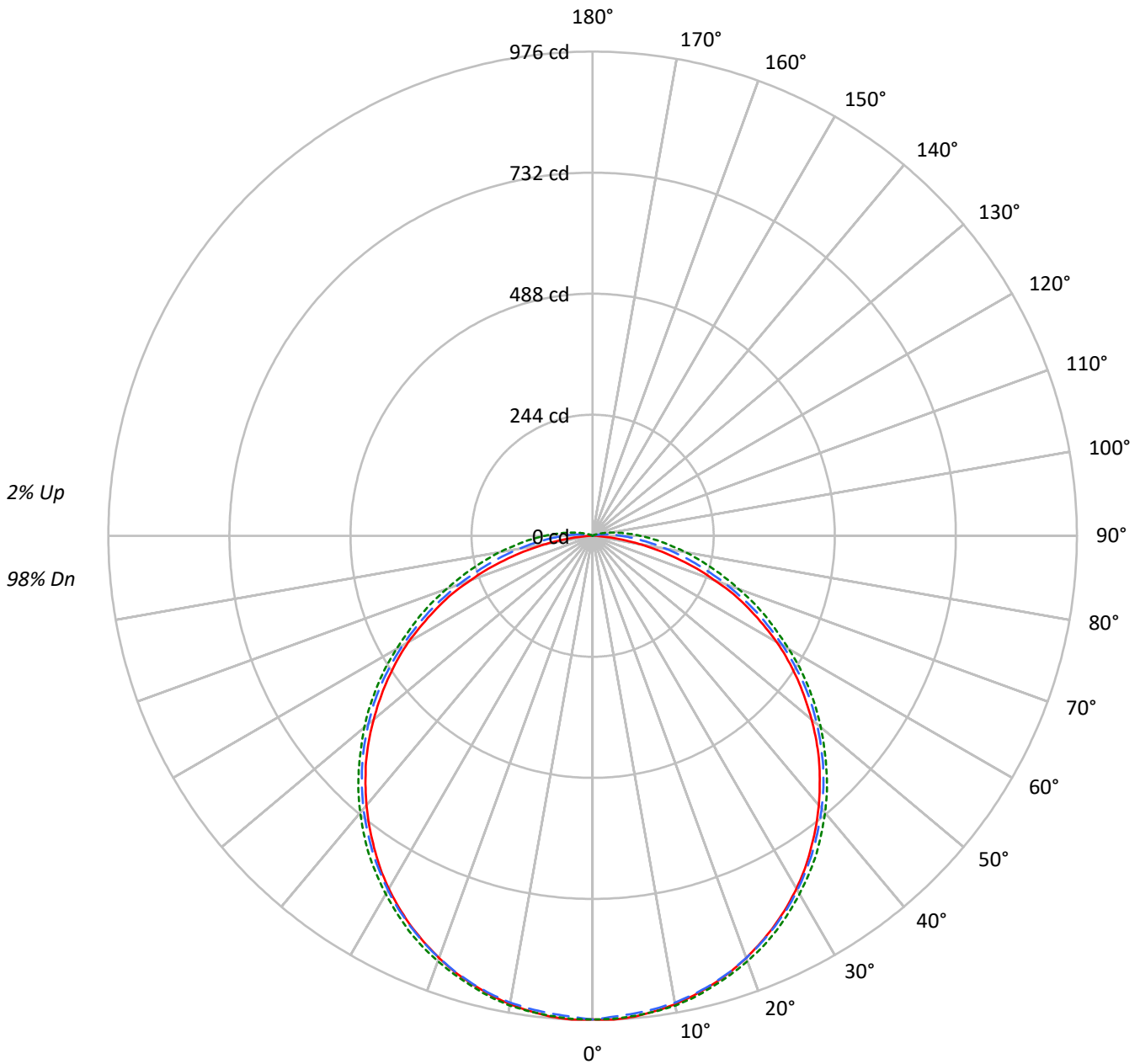
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2948.0 lumens  
Efficiency: N/A  
Efficacy: 85.2 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									
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°	5247	5247	5247
5°	5219	5143	5172
10°	5164	5064	5105
15°	5101	4974	5014
20°	5034	4872	4926
25°	4957	4766	4836
30°	4871	4653	4727
35°	4766	4527	4621
40°	4656	4395	4491
45°	4538	4249	4349
50°	4389	4079	4194
55°	4227	3892	4021
60°	4034	3644	3813
65°	3742	3366	3612
70°	3337	3035	3374
75°	2782	2672	3177
80°	1993	2320	3029
85°	958	1968	2946



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.3	3.1
10°-20°	264.7	9.0
20°-30°	401.6	13.6
30°-40°	485.6	16.5
40°-50°	506.7	17.2
50°-60°	463.2	15.7
60°-70°	361.1	12.2
70°-80°	225.9	7.7
80°-90°	102.6	3.5
90°-100°	34.4	1.2
100°-110°	8.6	0.3
110°-120°	1.4	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°	758.5	25.7
0°-40°	1244.1	42.2
0°-60°	2214.0	75.1
0°-90°	2903.6	98.5
90°-120°	44.4	1.5
90°-150°	44.4	1.5
90°-180°	44.0	1.5
0°-180°	2948.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	975	975	975	975	975	
5°	973	971	967	971	971	92
15°	936	938	935	940	940	264
25°	867	868	869	876	878	400
35°	768	771	774	782	785	481
45°	646	652	657	663	667	498
55°	504	510	520	527	530	450
65°	346	352	364	379	385	343
75°	175	186	213	239	248	187
85°	30	56	96	127	139	38
90°	0	21	57	85	96	1
95°	0	6	29	53	62	0
105°	0	1	5	14	19	1
115°	1	1	1	2	4	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°	975.0	975.0	975.0	975.0	975.0
2.5°	976.2	974.8	970.4	974.8	974.6
5°	973.0	971.1	966.7	971.3	971.3
7.5°	966.5	965.8	961.9	967.2	967.2
10°	958.9	958.7	955.5	961.2	961.5
12.5°	948.4	949.3	946.3	951.8	952.5
15°	935.9	937.6	935.0	940.3	940.1
17.5°	922.4	923.3	921.5	927.4	927.2
20°	905.6	906.8	905.4	911.6	912.3
22.5°	887.0	888.6	888.4	894.8	896.6
25°	867.2	867.9	868.8	876.2	877.6
27.5°	845.4	846.5	848.1	854.8	856.2
30°	821.5	823.3	825.2	832.1	833.9
32.5°	796.2	798.0	800.3	809.3	810.2
35°	767.7	771.1	774.4	782.2	785.4
37.5°	739.2	743.6	746.6	754.8	757.4
40°	709.1	713.5	718.3	727.0	728.6
42.5°	677.6	682.7	688.4	696.2	699.0
45°	645.9	651.6	656.9	663.3	666.6
47.5°	611.6	617.4	623.8	631.2	633.2
50°	576.2	582.9	589.8	596.7	600.4
52.5°	539.9	548.0	555.8	563.1	566.6
55°	504.1	510.0	519.5	527.0	530.5
57.5°	466.8	471.9	480.4	492.8	494.6
60°	428.9	433.5	442.2	452.3	456.5
62.5°	387.1	393.3	402.5	415.3	419.0
65°	346.4	352.4	364.5	379.0	385.0
67.5°	307.1	309.1	324.8	339.9	349.6
70°	260.6	268.5	286.6	305.2	312.6
72.5°	220.7	228.5	248.5	270.3	279.5
75°	175.4	186.2	213.3	238.8	247.8
77.5°	135.6	147.6	181.1	206.9	217.2
80°	94.7	113.3	149.9	178.8	190.1
82.5°	59.5	82.5	121.6	151.9	161.8
85°	30.3	56.1	96.3	127.3	138.6
87.5°	8.0	36.3	74.9	104.6	116.1
90°	0.2	20.9	56.8	85.3	95.6
92.5°	0.2	11.7	42.3	67.8	78.4
95°	0.2	5.5	29.4	53.3	61.6
97.5°	0.2	2.3	20.2	40.2	48.5
100°	0.2	1.1	12.9	29.2	36.3
102.5°	0.5	0.7	8.0	20.9	26.7
105°	0.5	0.7	4.8	14.3	19.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	0.7	0.9	3.9	5.7
115°	0.7	0.7	0.9	2.5	3.7
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°	0.5	0.7	2.8	9.7	13.1
110°	0.7	0.7	1.6	6.0	8.7



(END OF REPORT)