

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: P580277

Luminaire Tested: **HVSL12-8-LD4-2HI-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580277  
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: HVSL12-8-LD4-2HI-35-UNV-O-EDD-90  
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

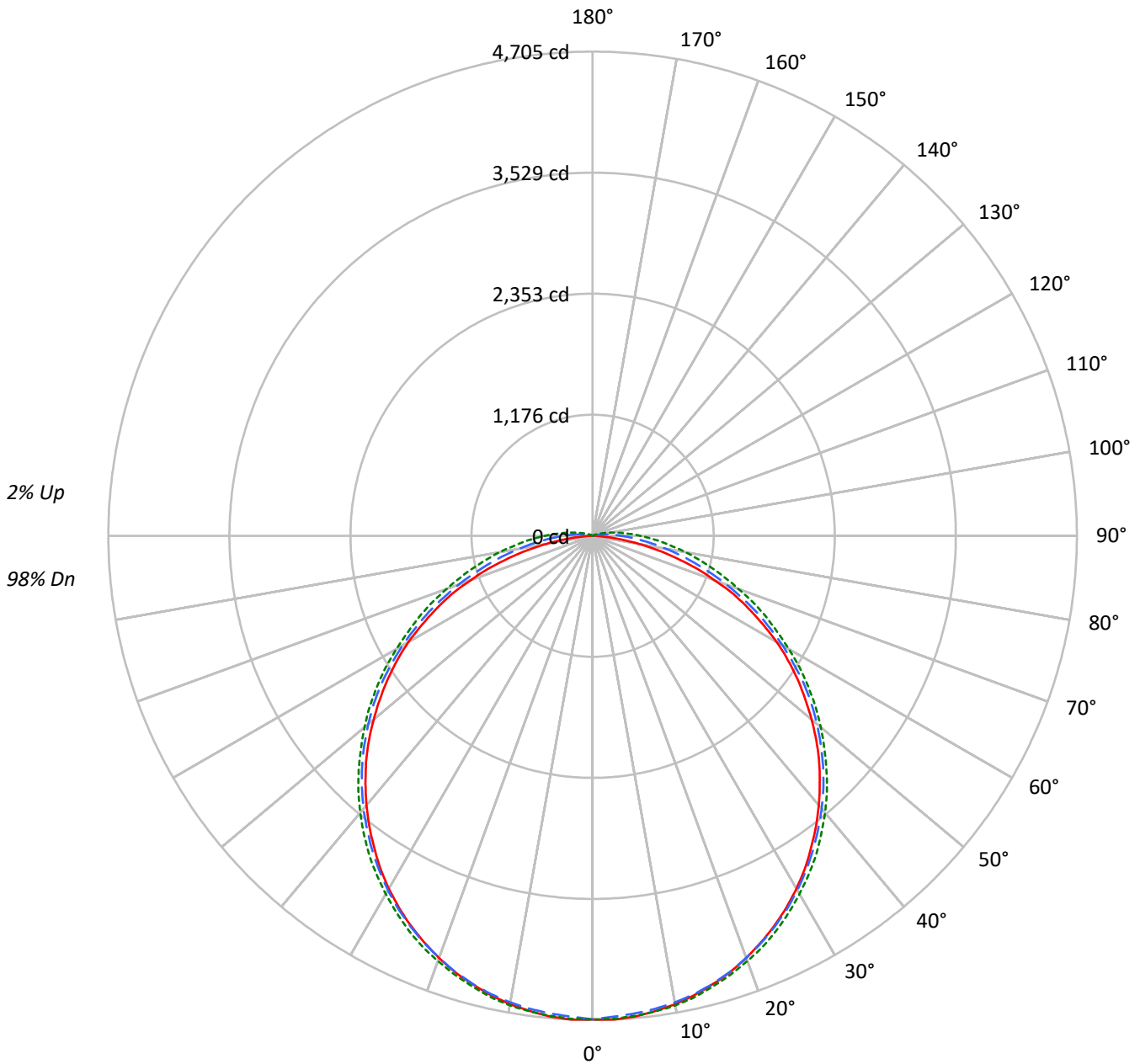
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14210.0 lumens  
Efficiency: N/A  
Efficacy: 77.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 182.4  
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°	6324	6324	6324
5°	6323	6222	6233
10°	6292	6149	6151
15°	6249	6063	6042
20°	6203	5961	5936
25°	6146	5855	5827
30°	6079	5740	5697
35°	5991	5610	5568
40°	5900	5472	5412
45°	5803	5320	5240
50°	5673	5139	5054
55°	5535	4938	4845
60°	5370	4665	4594
65°	5088	4356	4352
70°	4675	3984	4066
75°	4077	3576	3827
80°	3163	3195	3650
85°	1823	2849	3550



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	444.7	3.1
10°-20°	1275.7	9.0
20°-30°	1935.7	13.6
30°-40°	2340.6	16.5
40°-50°	2442.2	17.2
50°-60°	2232.9	15.7
60°-70°	1740.7	12.2
70°-80°	1088.9	7.7
80°-90°	494.6	3.5
90°-100°	165.8	1.2
100°-110°	41.6	0.3
110°-120°	6.5	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°	3656.2	25.7
0°-40°	5996.8	42.2
0°-60°	10672.0	75.1
0°-90°	13996.1	98.5
90°-120°	213.9	1.5
90°-150°	213.9	1.5
90°-180°	214.0	1.5
0°-180°	14210.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4700	4700	4700	4700	4700	
5°	4690	4681	4660	4682	4682	445
15°	4512	4519	4507	4532	4531	1274
25°	4180	4184	4188	4223	4230	1926
35°	3700	3717	3733	3770	3786	2316
45°	3113	3141	3166	3198	3213	2399
55°	2430	2458	2504	2540	2557	2171
65°	1670	1698	1757	1827	1856	1652
75°	845	897	1028	1151	1194	901
85°	146	270	464	614	668	185
90°	1	101	274	411	461	6
95°	1	27	142	257	297	1
105°	2	3	23	69	92	2
115°	3	3	4	12	18	2
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°	4699.8	4699.8	4699.8	4699.8	4699.8
2.5°	4705.3	4698.7	4677.7	4698.7	4697.6
5°	4689.8	4681.0	4659.9	4682.1	4682.1
7.5°	4658.8	4655.5	4636.7	4662.1	4662.1
10°	4622.3	4621.1	4605.6	4633.3	4634.4
12.5°	4571.3	4575.7	4561.3	4587.9	4591.2
15°	4511.5	4519.2	4507.0	4532.5	4531.4
17.5°	4446.1	4450.5	4441.7	4470.5	4469.4
20°	4365.2	4370.8	4364.1	4394.0	4397.3
22.5°	4275.5	4283.2	4282.1	4313.1	4322.0
25°	4180.2	4183.5	4187.9	4223.4	4230.1
27.5°	4074.9	4080.5	4088.2	4120.4	4127.0
30°	3959.7	3968.6	3977.4	4010.7	4019.5
32.5°	3837.8	3846.7	3857.8	3901.0	3905.4
35°	3700.5	3717.1	3732.6	3770.3	3785.8
37.5°	3563.1	3584.1	3598.5	3638.4	3650.6
40°	3417.9	3439.0	3462.3	3504.4	3512.1
42.5°	3266.2	3290.5	3318.2	3355.9	3369.2
45°	3113.3	3141.0	3166.4	3197.5	3213.0
47.5°	2948.2	2975.9	3006.9	3042.4	3052.3
50°	2777.6	2809.7	2842.9	2876.2	2893.9
52.5°	2602.5	2641.3	2679.0	2714.4	2731.0
55°	2429.7	2458.5	2503.9	2540.5	2557.1
57.5°	2250.2	2274.6	2315.6	2375.4	2384.3
60°	2067.4	2089.5	2131.6	2180.4	2200.3
62.5°	1865.7	1895.7	1940.0	2002.0	2019.7
65°	1669.6	1698.4	1757.2	1827.0	1855.8
67.5°	1480.2	1490.2	1565.5	1638.6	1685.2
70°	1256.4	1294.1	1381.6	1471.3	1506.8
72.5°	1063.6	1101.3	1197.7	1302.9	1347.2
75°	845.3	897.4	1028.2	1151.1	1194.3
77.5°	653.7	711.3	873.0	997.1	1047.0
80°	456.5	546.2	722.4	862.0	916.3
82.5°	287.0	397.7	586.1	732.3	780.0
85°	146.2	270.3	464.2	613.8	668.1
87.5°	38.8	175.1	361.2	504.1	559.5
90°	1.1	100.8	273.7	411.0	460.9
92.5°	1.1	56.5	203.9	326.8	377.8
95°	1.1	26.6	141.8	257.0	296.9
97.5°	1.1	11.1	97.5	193.9	233.8
100°	1.1	5.5	62.0	140.7	175.1
102.5°	2.2	3.3	38.8	100.8	128.5
105°	2.2	3.3	23.3	68.7	92.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.3	3.3	4.4	18.8	27.7
115°	3.3	3.3	4.4	12.2	17.7
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°	2.2	3.3	13.3	46.5	63.2
110°	3.3	3.3	7.8	28.8	42.1



(END OF REPORT)