

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: P580753

Luminaire Tested: **HVSL8-4-LD4-1STD-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580753  
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: HVSL8-4-LD4-1STD-50-UNV-O-EDD-90  
Description: 4 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

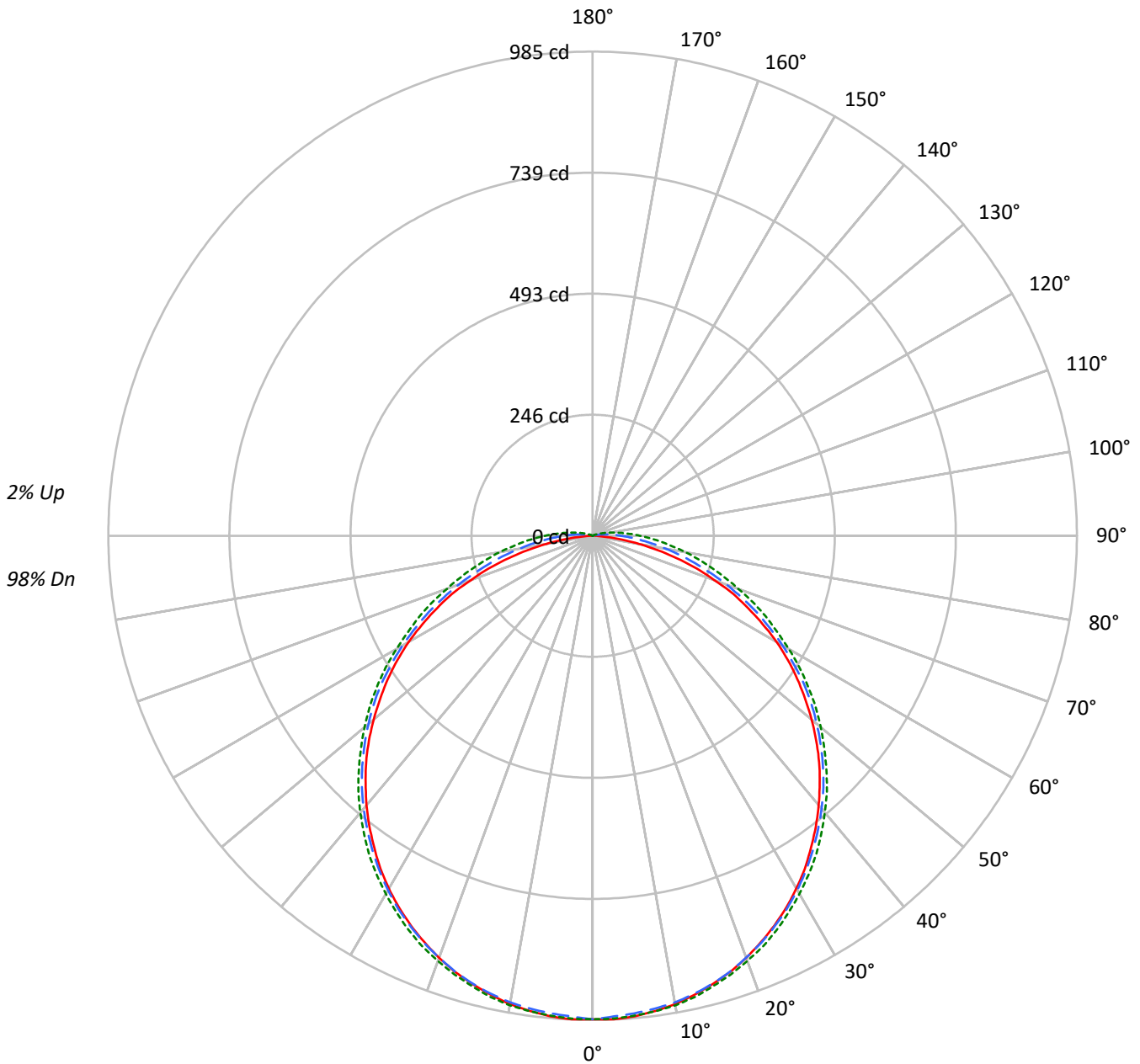
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2974.0 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 4' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 33.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	3970	3970	3970
5°	3962	3882	3885
10°	3936	3812	3807
15°	3902	3735	3714
20°	3866	3650	3623
25°	3822	3561	3531
30°	3772	3467	3426
35°	3708	3364	3322
40°	3642	3255	3201
45°	3571	3136	3071
50°	3478	2999	2930
55°	3377	2848	2775
60°	3258	2653	2594
65°	3063	2436	2415
70°	2784	2178	2206
75°	2388	1896	2017
80°	1796	1620	1844
85°	960	1341	1678



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.1	3.1
10°-20°	267.0	9.0
20°-30°	405.1	13.6
30°-40°	489.9	16.5
40°-50°	511.1	17.2
50°-60°	467.3	15.7
60°-70°	364.3	12.2
70°-80°	227.9	7.7
80°-90°	103.5	3.5
90°-100°	34.7	1.2
100°-110°	8.7	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°	765.2	25.7
0°-40°	1255.0	42.2
0°-60°	2233.5	75.1
0°-90°	2929.2	98.5
90°-120°	44.8	1.5
90°-150°	44.8	1.5
90°-180°	45.0	1.5
0°-180°	2974.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	982	980	975	980	980	93
15°	944	946	943	949	948	267
25°	875	876	876	884	885	403
35°	774	778	781	789	792	485
45°	652	657	663	669	672	502
55°	508	514	524	532	535	454
65°	349	356	368	382	388	346
75°	177	188	215	241	250	189
85°	31	57	97	128	140	39
90°	0	21	57	86	96	1
95°	0	6	30	54	62	0
105°	0	1	5	14	19	1
115°	1	1	1	3	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°	983.6	983.6	983.6	983.6	983.6
2.5°	984.8	983.4	979.0	983.4	983.2
5°	981.5	979.7	975.3	979.9	979.9
7.5°	975.0	974.3	970.4	975.7	975.7
10°	967.4	967.2	963.9	969.7	969.9
12.5°	956.7	957.6	954.6	960.2	960.9
15°	944.2	945.8	943.3	948.6	948.4
17.5°	930.5	931.4	929.6	935.6	935.4
20°	913.6	914.8	913.4	919.6	920.3
22.5°	894.8	896.4	896.2	902.7	904.5
25°	874.9	875.6	876.5	883.9	885.3
27.5°	852.8	854.0	855.6	862.3	863.7
30°	828.7	830.6	832.4	839.4	841.2
32.5°	803.2	805.1	807.4	816.4	817.4
35°	774.5	777.9	781.2	789.1	792.3
37.5°	745.7	750.1	753.1	761.5	764.0
40°	715.3	719.7	724.6	733.4	735.0
42.5°	683.6	688.7	694.5	702.4	705.1
45°	651.6	657.4	662.7	669.2	672.4
47.5°	617.0	622.8	629.3	636.7	638.8
50°	581.3	588.0	595.0	602.0	605.7
52.5°	544.7	552.8	560.7	568.1	571.6
55°	508.5	514.5	524.0	531.7	535.2
57.5°	470.9	476.0	484.6	497.1	499.0
60°	432.7	437.3	446.1	456.3	460.5
62.5°	390.5	396.7	406.0	419.0	422.7
65°	349.4	355.5	367.8	382.4	388.4
67.5°	309.8	311.9	327.6	342.9	352.7
70°	262.9	270.8	289.1	307.9	315.4
72.5°	222.6	230.5	250.7	272.7	282.0
75°	176.9	187.8	215.2	240.9	250.0
77.5°	136.8	148.9	182.7	208.7	219.1
80°	95.5	114.3	151.2	180.4	191.8
82.5°	60.1	83.2	122.7	153.3	163.2
85°	30.6	56.6	97.2	128.5	139.8
87.5°	8.1	36.6	75.6	105.5	117.1
90°	0.2	21.1	57.3	86.0	96.5
92.5°	0.2	11.8	42.7	68.4	79.1
95°	0.2	5.6	29.7	53.8	62.1
97.5°	0.2	2.3	20.4	40.6	48.9
100°	0.2	1.2	13.0	29.4	36.6
102.5°	0.5	0.7	8.1	21.1	26.9
105°	0.5	0.7	4.9	14.4	19.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	0.7	0.9	3.9	5.8
115°	0.7	0.7	0.9	2.6	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	13.2
110°	0.7	0.7	1.6	6.0	8.8



(END OF REPORT)