

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: P580850

Luminaire Tested: **HVSL8-8-LD4-2STD-50-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

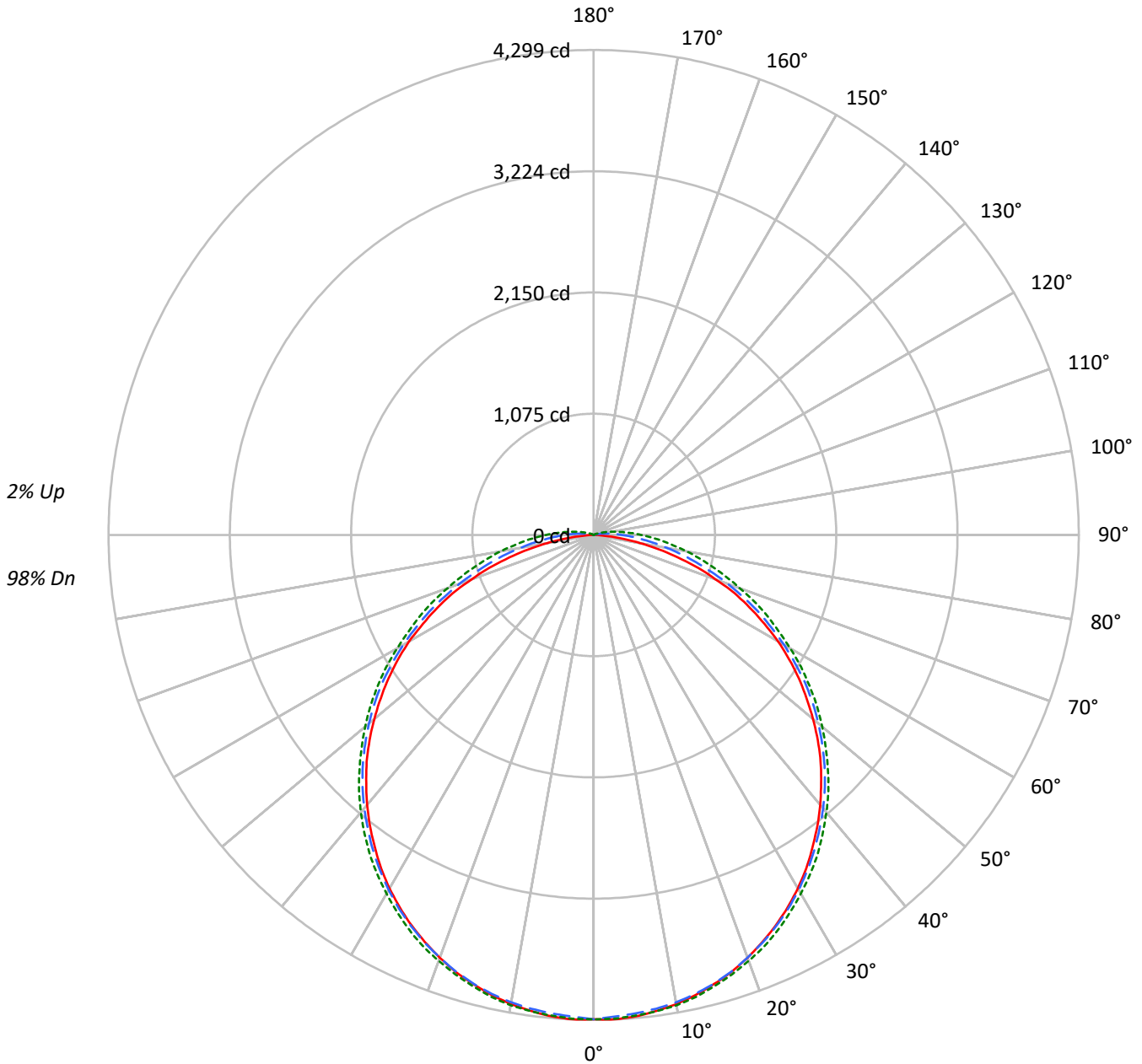
Test Method: LM-79-08  
Report Number: P580850  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-135-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/16/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: HVSL8-8-LD4-2STD-50-UNV-O-EDD  
Description: 8 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12983.0 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 134.8  
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°	8666	8666	8666
5°	8665	8483	8481
10°	8623	8342	8311
15°	8565	8184	8107
20°	8501	8006	7909
25°	8423	7822	7708
30°	8331	7626	7479
35°	8210	7409	7252
40°	8086	7180	6988
45°	7953	6930	6703
50°	7775	6640	6396
55°	7585	6321	6058
60°	7359	5903	5662
65°	6973	5434	5271
70°	6407	4880	4816
75°	5588	4272	4402
80°	4334	3677	4023
85°	2499	3079	3664



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	406.3	3.1
10°-20°	1165.6	9.0
20°-30°	1768.6	13.6
30°-40°	2138.5	16.5
40°-50°	2231.4	17.2
50°-60°	2040.1	15.7
60°-70°	1590.4	12.2
70°-80°	994.9	7.7
80°-90°	451.8	3.5
90°-100°	151.4	1.2
100°-110°	38.0	0.3
110°-120°	6.0	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°	3340.5	25.7
0°-40°	5479.0	42.2
0°-60°	9750.5	75.1
0°-90°	12787.5	98.5
90°-120°	195.4	1.5
90°-150°	195.4	1.5
90°-180°	195.0	1.5
0°-180°	12983.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4294	4294	4294	4294	4294	
5°	4285	4277	4258	4278	4278	407
15°	4122	4129	4118	4141	4140	1164
25°	3819	3822	3826	3859	3865	1760
35°	3381	3396	3410	3445	3459	2116
45°	2844	2870	2893	2921	2936	2192
55°	2220	2246	2288	2321	2336	1983
65°	1526	1552	1605	1669	1696	1509
75°	772	820	939	1052	1091	823
85°	134	247	424	561	610	169
90°	1	92	250	376	421	5
95°	1	24	130	235	271	1
105°	2	3	21	63	84	2
115°	3	3	4	11	16	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



TEST NUMBER: P580850

CATALOG NUMBER: HVSL8-8-LD4-2STD-50-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4294.0	4294.0	4294.0	4294.0	4294.0
2.5°	4299.1	4293.0	4273.7	4293.0	4292.0
5°	4284.9	4276.8	4257.6	4277.8	4277.8
7.5°	4256.5	4253.5	4236.3	4259.6	4259.6
10°	4223.1	4222.1	4208.0	4233.3	4234.3
12.5°	4176.6	4180.6	4167.5	4191.8	4194.8
15°	4121.9	4129.0	4117.9	4141.1	4140.1
17.5°	4062.2	4066.2	4058.1	4084.5	4083.4
20°	3988.3	3993.4	3987.3	4014.6	4017.6
22.5°	3906.3	3913.4	3912.4	3940.7	3948.8
25°	3819.2	3822.3	3826.3	3858.7	3864.8
27.5°	3723.1	3728.1	3735.2	3764.6	3770.7
30°	3617.8	3625.9	3634.0	3664.4	3672.5
32.5°	3506.5	3514.6	3524.7	3564.2	3568.2
35°	3380.9	3396.1	3410.3	3444.7	3458.9
37.5°	3255.4	3274.6	3287.8	3324.3	3335.4
40°	3122.8	3142.0	3163.3	3201.8	3208.9
42.5°	2984.1	3006.4	3031.7	3066.1	3078.3
45°	2844.4	2869.7	2893.0	2921.4	2935.5
47.5°	2693.6	2718.9	2747.3	2779.7	2788.8
50°	2537.7	2567.1	2597.5	2627.8	2644.0
52.5°	2377.8	2413.2	2447.6	2480.0	2495.2
55°	2219.9	2246.2	2287.7	2321.1	2336.3
57.5°	2055.9	2078.2	2115.6	2170.3	2178.4
60°	1888.9	1909.1	1947.6	1992.1	2010.3
62.5°	1704.6	1732.0	1772.5	1829.1	1845.3
65°	1525.5	1551.8	1605.4	1669.2	1695.5
67.5°	1352.4	1361.5	1430.3	1497.1	1539.6
70°	1147.9	1182.3	1262.3	1344.3	1376.7
72.5°	971.8	1006.2	1094.2	1190.4	1230.9
75°	772.4	819.9	939.4	1051.7	1091.2
77.5°	597.2	649.9	797.7	911.0	956.6
80°	417.0	499.0	660.0	787.5	837.1
82.5°	262.2	363.4	535.5	669.1	712.6
85°	133.6	247.0	424.1	560.8	610.4
87.5°	35.4	159.9	330.0	460.6	511.2
90°	1.0	92.1	250.0	375.5	421.1
92.5°	1.0	51.6	186.3	298.6	345.2
95°	1.0	24.3	129.6	234.8	271.3
97.5°	1.0	10.1	89.1	177.1	213.6
100°	1.0	5.1	56.7	128.6	159.9
102.5°	2.0	3.0	35.4	92.1	117.4
105°	2.0	3.0	21.3	62.8	84.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	3.0	4.0	17.2	25.3
115°	3.0	3.0	4.0	11.1	16.2
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°	2.0	3.0	12.1	42.5	57.7
110°	3.0	3.0	7.1	26.3	38.5



(END OF REPORT)