

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: P580842

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

Issue Date: 12/16/2022



**Test Information**

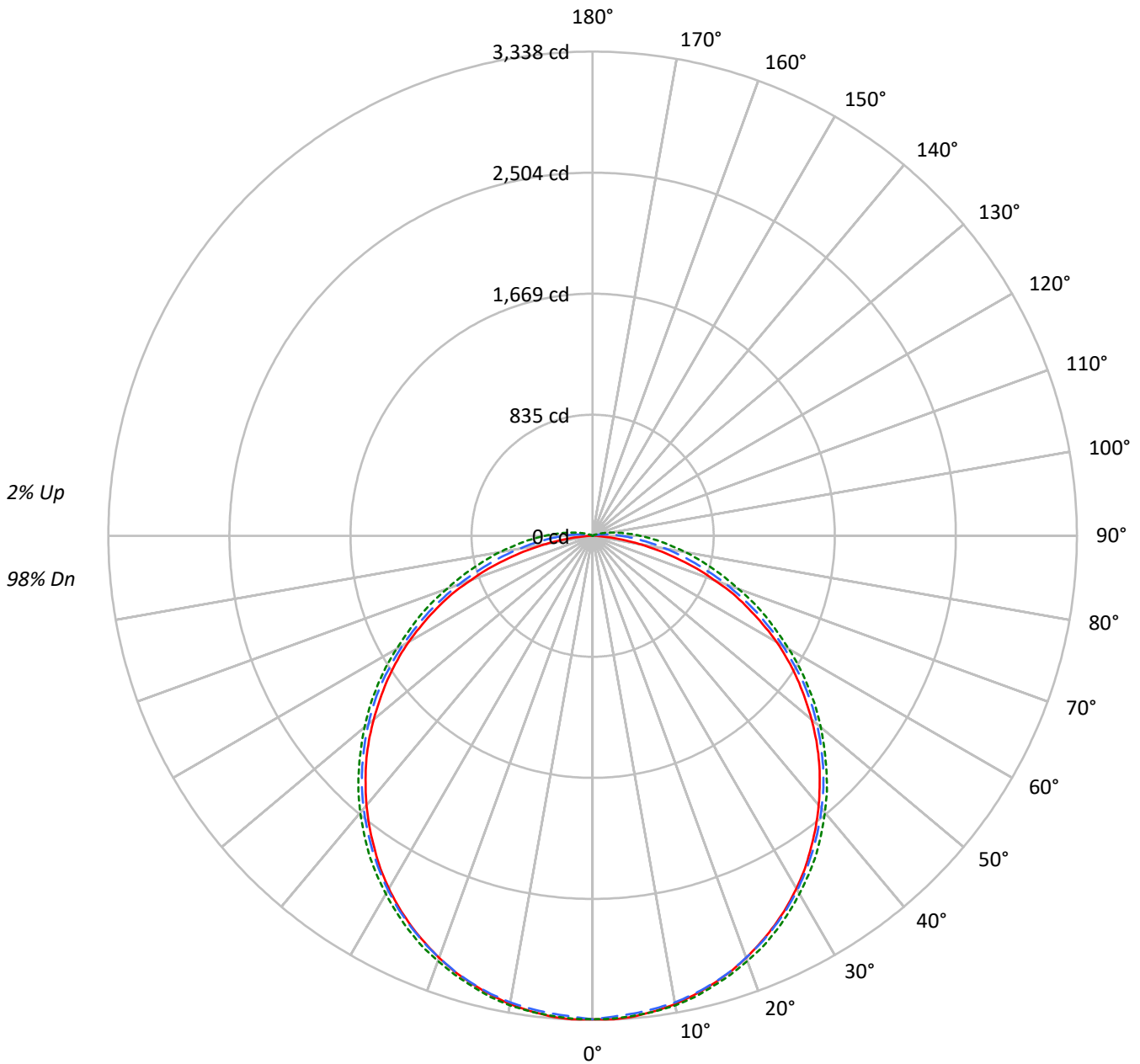
Test Method: LM-79-08  
Report Number: P580842  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-135-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/16/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: HVSL8-8-LD4-2LO-50-UNV-O-EDD  
Description: 8 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10079.0 lumens  
Efficiency: N/A  
Efficacy: 106.0 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): 95.1  
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				20				20
RC	80				70				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°	6728	6728	6728
5°	6727	6586	6584
10°	6694	6476	6452
15°	6649	6353	6294
20°	6600	6215	6140
25°	6539	6073	5984
30°	6468	5920	5806
35°	6374	5752	5630
40°	6277	5574	5425
45°	6174	5380	5203
50°	6036	5155	4965
55°	5889	4907	4703
60°	5713	4583	4396
65°	5414	4219	4092
70°	4974	3789	3738
75°	4338	3316	3417
80°	3366	2855	3124
85°	1939	2391	2844



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.5	3.1
10°-20°	904.9	9.0
20°-30°	1373.0	13.6
30°-40°	1660.2	16.5
40°-50°	1732.3	17.2
50°-60°	1583.8	15.7
60°-70°	1234.7	12.2
70°-80°	772.3	7.7
80°-90°	350.8	3.5
90°-100°	117.6	1.2
100°-110°	29.5	0.3
110°-120°	4.7	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°	2593.3	25.7
0°-40°	4253.4	42.2
0°-60°	7569.5	75.1
0°-90°	9927.3	98.5
90°-120°	151.8	1.5
90°-150°	151.8	1.5
90°-180°	152.0	1.5
0°-180°	10079.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3334	3334	3334	3334	3334	
5°	3326	3320	3305	3321	3321	316
15°	3200	3205	3197	3215	3214	903
25°	2965	2967	2970	2996	3000	1366
35°	2625	2636	2648	2674	2685	1643
45°	2208	2228	2246	2268	2279	1702
55°	1723	1744	1776	1802	1814	1540
65°	1184	1205	1246	1296	1316	1172
75°	600	636	729	816	847	639
85°	104	192	329	435	474	131
90°	1	72	194	292	327	4
95°	1	19	101	182	211	1
105°	2	2	16	49	65	2
115°	2	2	3	9	13	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°	3333.5	3333.5	3333.5	3333.5	3333.5
2.5°	3337.5	3332.7	3317.8	3332.7	3332.0
5°	3326.5	3320.2	3305.2	3321.0	3321.0
7.5°	3304.4	3302.1	3288.7	3306.8	3306.8
10°	3278.5	3277.7	3266.7	3286.4	3287.2
12.5°	3242.4	3245.5	3235.3	3254.2	3256.5
15°	3199.9	3205.4	3196.8	3214.9	3214.1
17.5°	3153.6	3156.7	3150.4	3170.9	3170.1
20°	3096.2	3100.1	3095.4	3116.6	3119.0
22.5°	3032.5	3038.0	3037.3	3059.3	3065.6
25°	2965.0	2967.3	2970.5	2995.6	3000.3
27.5°	2890.3	2894.2	2899.7	2922.5	2927.2
30°	2808.6	2814.9	2821.2	2844.7	2851.0
32.5°	2722.1	2728.4	2736.3	2766.9	2770.1
35°	2624.7	2636.5	2647.5	2674.2	2685.2
37.5°	2527.3	2542.2	2552.4	2580.7	2589.3
40°	2424.3	2439.2	2455.7	2485.6	2491.1
42.5°	2316.7	2333.9	2353.6	2380.3	2389.7
45°	2208.2	2227.9	2245.9	2267.9	2278.9
47.5°	2091.1	2110.8	2132.8	2157.9	2165.0
50°	1970.1	1992.9	2016.5	2040.0	2052.6
52.5°	1845.9	1873.4	1900.2	1925.3	1937.1
55°	1723.3	1743.8	1776.0	1801.9	1813.7
57.5°	1596.0	1613.3	1642.4	1684.8	1691.1
60°	1466.4	1482.1	1512.0	1546.5	1560.7
62.5°	1323.4	1344.6	1376.0	1420.0	1432.6
65°	1184.3	1204.7	1246.3	1295.8	1316.3
67.5°	1049.9	1057.0	1110.4	1162.3	1195.3
70°	891.1	917.9	979.9	1043.6	1068.7
72.5°	754.4	781.1	849.5	924.1	955.6
75°	599.6	636.5	729.3	816.5	847.1
77.5°	463.6	504.5	619.2	707.3	742.6
80°	323.8	387.4	512.4	611.4	649.9
82.5°	203.5	282.1	415.7	519.4	553.2
85°	103.7	191.7	329.3	435.4	473.9
87.5°	27.5	124.2	256.2	357.6	396.8
90°	0.8	71.5	194.1	291.5	326.9
92.5°	0.8	40.1	144.6	231.8	268.0
95°	0.8	18.9	100.6	182.3	210.6
97.5°	0.8	7.9	69.2	137.5	165.8
100°	0.8	3.9	44.0	99.8	124.2
102.5°	1.6	2.4	27.5	71.5	91.2
105°	1.6	2.4	16.5	48.7	65.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	2.4	3.1	13.4	19.6
115°	2.4	2.4	3.1	8.6	12.6
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°	1.6	2.4	9.4	33.0	44.8
110°	2.4	2.4	5.5	20.4	29.9



(END OF REPORT)