

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: P580289

Luminaire Tested: **HVSL12-8-LD4-2LO-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580289  
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-LD4-2LO-50-UNV-O-EDD-90  
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

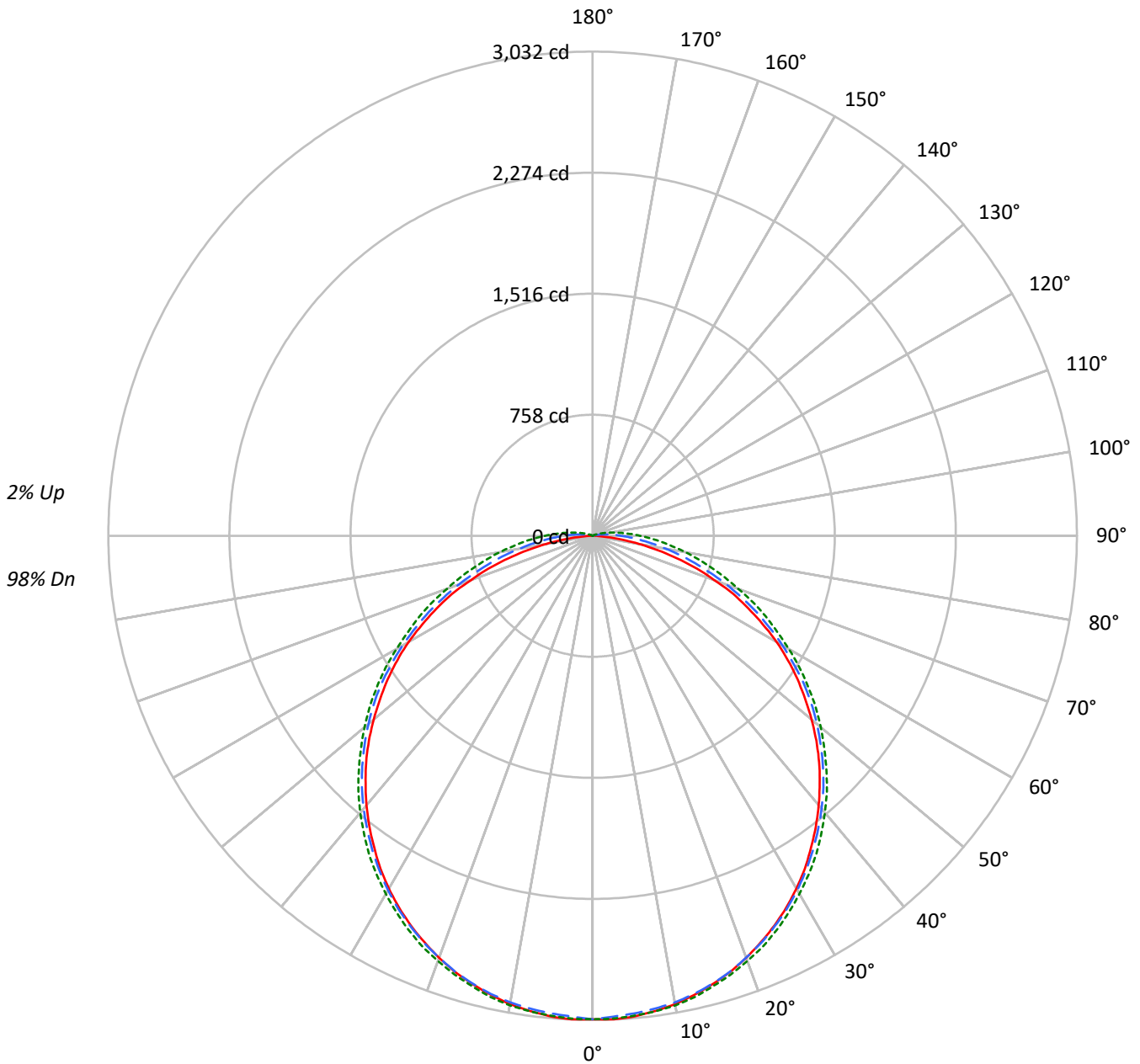
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9155.0 lumens  
Efficiency: N/A  
Efficacy: 93.7 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): 97.7  
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

TEST NUMBER: P580289

CATALOG NUMBER: HVSL12-8-LD4-2LO-50-UNV-O-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P580289

CATALOG NUMBER: HVSL12-8-LD4-2LO-50-UNV-O-EDD-90

**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°	4074	4074	4074
5°	4073	4008	4016
10°	4054	3961	3963
15°	4026	3906	3893
20°	3997	3840	3824
25°	3960	3772	3754
30°	3916	3698	3670
35°	3860	3614	3587
40°	3801	3526	3487
45°	3739	3427	3376
50°	3655	3311	3256
55°	3566	3182	3121
60°	3459	3005	2960
65°	3278	2806	2804
70°	3012	2567	2619
75°	2627	2304	2466
80°	2038	2058	2351
85°	1175	1835	2287



TEST NUMBER: P580289

CATALOG NUMBER: HVSL12-8-LD4-2LO-50-UNV-O-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.5	3.1
10°-20°	821.9	9.0
20°-30°	1247.1	13.6
30°-40°	1508.0	16.5
40°-50°	1573.4	17.2
50°-60°	1438.6	15.7
60°-70°	1121.5	12.2
70°-80°	701.5	7.7
80°-90°	318.6	3.5
90°-100°	106.8	1.2
100°-110°	26.8	0.3
110°-120°	4.2	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°	2355.5	25.7
0°-40°	3863.5	42.2
0°-60°	6875.5	75.1
0°-90°	9017.2	98.5
90°-120°	137.8	1.5
90°-150°	137.8	1.5
90°-180°	138.0	1.5
0°-180°	9155.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3028	3028	3028	3028	3028	
5°	3022	3016	3002	3016	3016	287
15°	2907	2912	2904	2920	2919	820
25°	2693	2695	2698	2721	2725	1241
35°	2384	2395	2405	2429	2439	1492
45°	2006	2024	2040	2060	2070	1546
55°	1565	1584	1613	1637	1647	1398
65°	1076	1094	1132	1177	1196	1064
75°	545	578	662	742	770	581
85°	94	174	299	395	430	119
90°	1	65	176	265	297	4
95°	1	17	91	166	191	1
105°	1	2	15	44	59	1
115°	2	2	3	8	11	1
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: P580289

CATALOG NUMBER: HVSL12-8-LD4-2LO-50-UNV-O-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3027.9	3027.9	3027.9	3027.9	3027.9
2.5°	3031.5	3027.2	3013.6	3027.2	3026.5
5°	3021.5	3015.8	3002.2	3016.5	3016.5
7.5°	3001.5	2999.4	2987.2	3003.7	3003.7
10°	2978.0	2977.2	2967.2	2985.1	2985.8
12.5°	2945.1	2948.0	2938.7	2955.8	2958.0
15°	2906.6	2911.6	2903.7	2920.1	2919.4
17.5°	2864.5	2867.3	2861.6	2880.2	2879.5
20°	2812.4	2815.9	2811.6	2830.9	2833.1
22.5°	2754.5	2759.5	2758.8	2778.8	2784.5
25°	2693.2	2695.3	2698.1	2721.0	2725.3
27.5°	2625.3	2628.9	2633.9	2654.6	2658.9
30°	2551.1	2556.8	2562.5	2583.9	2589.7
32.5°	2472.6	2478.3	2485.4	2513.3	2516.1
35°	2384.1	2394.8	2404.8	2429.0	2439.0
37.5°	2295.6	2309.1	2318.4	2344.1	2352.0
40°	2202.1	2215.6	2230.6	2257.7	2262.7
42.5°	2104.3	2120.0	2137.8	2162.1	2170.7
45°	2005.8	2023.6	2040.0	2060.0	2070.0
47.5°	1899.4	1917.3	1937.2	1960.1	1966.5
50°	1789.5	1810.2	1831.6	1853.0	1864.4
52.5°	1676.7	1701.7	1726.0	1748.8	1759.5
55°	1565.4	1583.9	1613.2	1636.7	1647.4
57.5°	1449.7	1465.4	1491.8	1530.4	1536.1
60°	1331.9	1346.2	1373.3	1404.7	1417.6
62.5°	1202.0	1221.3	1249.9	1289.8	1301.2
65°	1075.7	1094.2	1132.1	1177.0	1195.6
67.5°	953.6	960.1	1008.6	1055.7	1085.7
70°	809.4	833.7	890.1	947.9	970.8
72.5°	685.2	709.5	771.6	839.4	868.0
75°	544.6	578.2	662.4	741.6	769.5
77.5°	421.1	458.3	562.5	642.4	674.5
80°	294.1	351.9	465.4	555.3	590.3
82.5°	184.9	256.3	377.6	471.8	502.5
85°	94.2	174.2	299.1	395.4	430.4
87.5°	25.0	112.8	232.7	324.8	360.5
90°	0.7	65.0	176.3	264.8	296.9
92.5°	0.7	36.4	131.3	210.6	243.4
95°	0.7	17.1	91.4	165.6	191.3
97.5°	0.7	7.1	62.8	124.9	150.6
100°	0.7	3.6	40.0	90.7	112.8
102.5°	1.4	2.1	25.0	65.0	82.8
105°	1.4	2.1	15.0	44.3	59.2



TEST NUMBER: P580289

CATALOG NUMBER: HVSL12-8-LD4-2LO-50-UNV-O-EDD-90

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.1	2.1	2.9	12.1	17.8
115°	2.1	2.1	2.9	7.9	11.4
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°	1.4	2.1	8.6	30.0	40.7
110°	2.1	2.1	5.0	18.6	27.1



(END OF REPORT)