

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: P580256

Luminaire Tested: **HVSL12-8-LD4-1HI-40-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

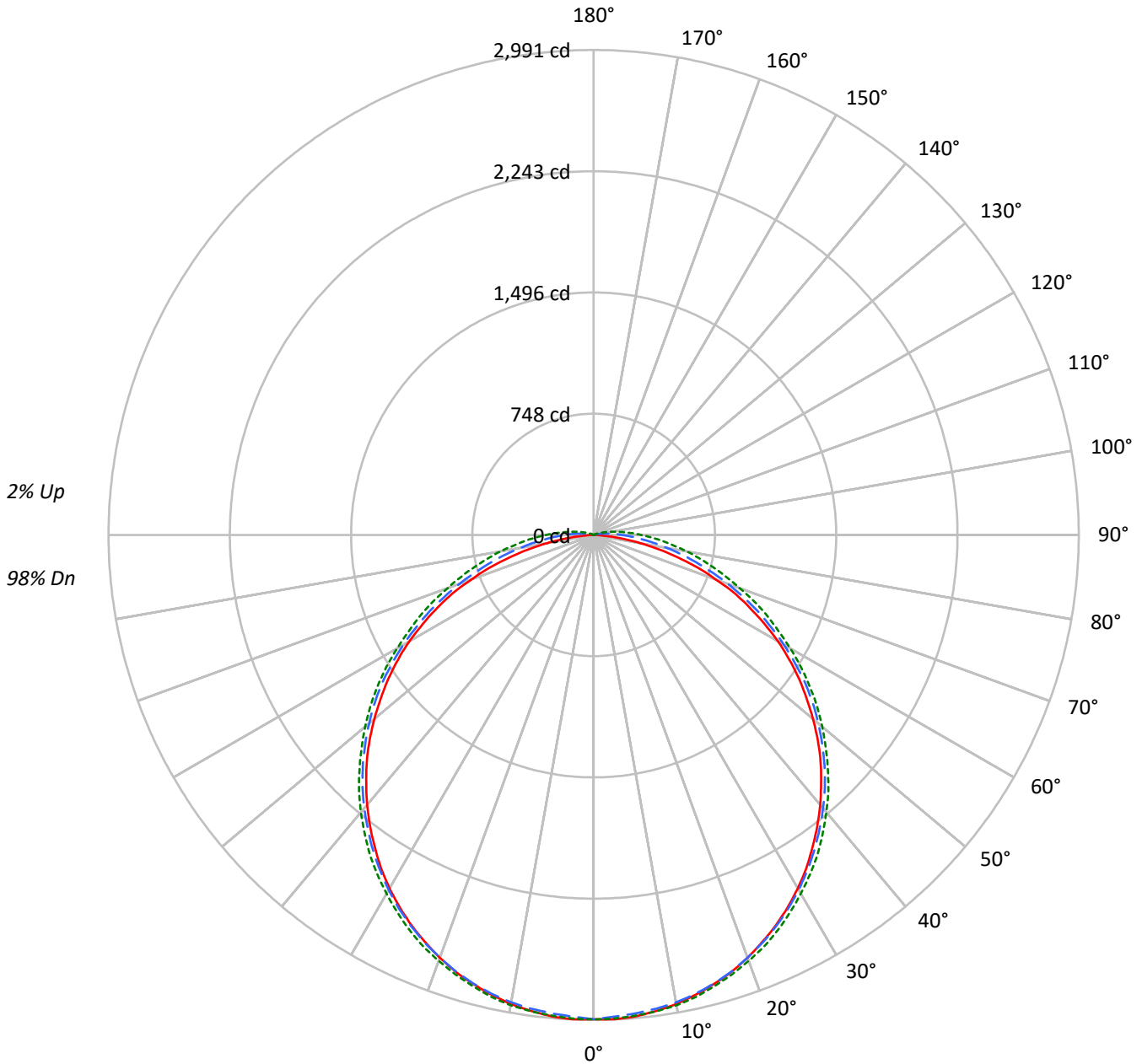
Test Method: LM-79-08  
Report Number: P580256  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-135-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/16/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: HVSL12-8-LD4-1HI-40-UNV-O-EDD  
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9032.0 lumens  
Efficiency: N/A  
Efficacy: 99.3 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): 91  
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: P580256  
CATALOG NUMBER: HVSL12-8-LD4-1HI-40-UNV-O-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P580256

CATALOG NUMBER: HVSL12-8-LD4-1HI-40-UNV-O-EDD

**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°	4019	4019	4019
5°	4019	3955	3962
10°	3999	3908	3910
15°	3972	3853	3840
20°	3943	3789	3773
25°	3907	3722	3704
30°	3864	3648	3621
35°	3808	3566	3539
40°	3750	3478	3440
45°	3688	3381	3331
50°	3606	3266	3212
55°	3518	3139	3079
60°	3413	2965	2920
65°	3234	2769	2766
70°	2972	2532	2584
75°	2592	2273	2433
80°	2010	2030	2320
85°	1160	1811	2256



TEST NUMBER: P580256

CATALOG NUMBER: HVSL12-8-LD4-1HI-40-UNV-O-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.7	3.1
10°-20°	810.9	9.0
20°-30°	1230.4	13.6
30°-40°	1487.7	16.5
40°-50°	1552.3	17.2
50°-60°	1419.3	15.7
60°-70°	1106.4	12.2
70°-80°	692.1	7.7
80°-90°	314.3	3.5
90°-100°	105.3	1.2
100°-110°	26.4	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°	2323.9	25.7
0°-40°	3811.6	42.2
0°-60°	6783.2	75.1
0°-90°	8896.0	98.5
90°-120°	136.0	1.5
90°-150°	136.0	1.5
90°-180°	136.0	1.5
0°-180°	9032.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2987	2987	2987	2987	2987	
5°	2981	2975	2962	2976	2976	283
15°	2868	2872	2865	2881	2880	809
25°	2657	2659	2662	2684	2689	1224
35°	2352	2363	2372	2396	2406	1472
45°	1979	1996	2013	2032	2042	1525
55°	1544	1563	1592	1615	1625	1380
65°	1061	1080	1117	1161	1180	1050
75°	537	570	654	732	759	573
85°	93	172	295	390	425	118
90°	1	64	174	261	293	4
95°	1	17	90	163	189	1
105°	1	2	15	44	58	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: P580256

CATALOG NUMBER: HVSL12-8-LD4-1HI-40-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2987.2	2987.2	2987.2	2987.2	2987.2
2.5°	2990.8	2986.5	2973.2	2986.5	2985.8
5°	2980.9	2975.3	2961.9	2976.0	2976.0
7.5°	2961.2	2959.1	2947.1	2963.3	2963.3
10°	2937.9	2937.2	2927.4	2945.0	2945.7
12.5°	2905.6	2908.4	2899.2	2916.1	2918.2
15°	2867.5	2872.5	2864.7	2880.9	2880.2
17.5°	2826.0	2828.8	2823.2	2841.5	2840.8
20°	2774.6	2778.1	2773.9	2792.9	2795.0
22.5°	2717.5	2722.5	2721.8	2741.5	2747.1
25°	2657.0	2659.1	2661.9	2684.4	2688.7
27.5°	2590.1	2593.6	2598.5	2618.9	2623.2
30°	2516.8	2522.5	2528.1	2549.2	2554.9
32.5°	2439.4	2445.0	2452.0	2479.5	2482.3
35°	2352.0	2362.6	2372.5	2396.4	2406.3
37.5°	2264.7	2278.1	2287.3	2312.6	2320.4
40°	2172.5	2185.9	2200.6	2227.4	2232.3
42.5°	2076.0	2091.5	2109.1	2133.0	2141.5
45°	1978.8	1996.4	2012.6	2032.3	2042.2
47.5°	1873.9	1891.5	1911.2	1933.7	1940.1
50°	1765.4	1785.9	1807.0	1828.1	1839.4
52.5°	1654.2	1678.8	1702.8	1725.3	1735.9
55°	1544.3	1562.6	1591.5	1614.7	1625.3
57.5°	1430.2	1445.7	1471.8	1509.8	1515.5
60°	1314.0	1328.1	1354.9	1385.9	1398.6
62.5°	1185.9	1204.9	1233.1	1272.5	1283.8
65°	1061.2	1079.5	1116.9	1161.2	1179.5
67.5°	940.8	947.2	995.0	1041.5	1071.1
70°	798.6	822.5	878.1	935.2	957.7
72.5°	676.0	700.0	761.2	828.1	856.3
75°	537.3	570.4	653.5	731.7	759.1
77.5°	415.5	452.1	554.9	633.8	665.5
80°	290.1	347.2	459.1	547.9	582.4
82.5°	182.4	252.8	372.5	465.5	495.8
85°	93.0	171.8	295.1	390.1	424.6
87.5°	24.6	111.3	229.6	320.4	355.6
90°	0.7	64.1	173.9	261.3	292.9
92.5°	0.7	35.9	129.6	207.7	240.1
95°	0.7	16.9	90.1	163.4	188.7
97.5°	0.7	7.0	62.0	123.2	148.6
100°	0.7	3.5	39.4	89.4	111.3
102.5°	1.4	2.1	24.6	64.1	81.7
105°	1.4	2.1	14.8	43.7	58.4



TEST NUMBER: P580256

CATALOG NUMBER: HVSL12-8-LD4-1HI-40-UNV-O-EDD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.1	2.1	2.8	12.0	17.6
115°	2.1	2.1	2.8	7.7	11.3
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	8.5	29.6	40.1
110°	2.1	2.1	4.9	18.3	26.8



(END OF REPORT)