

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: P580284

Luminaire Tested: **HVSL12-8-LD4-2LO-30-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580284  
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-30-UNV-O-EDD  
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

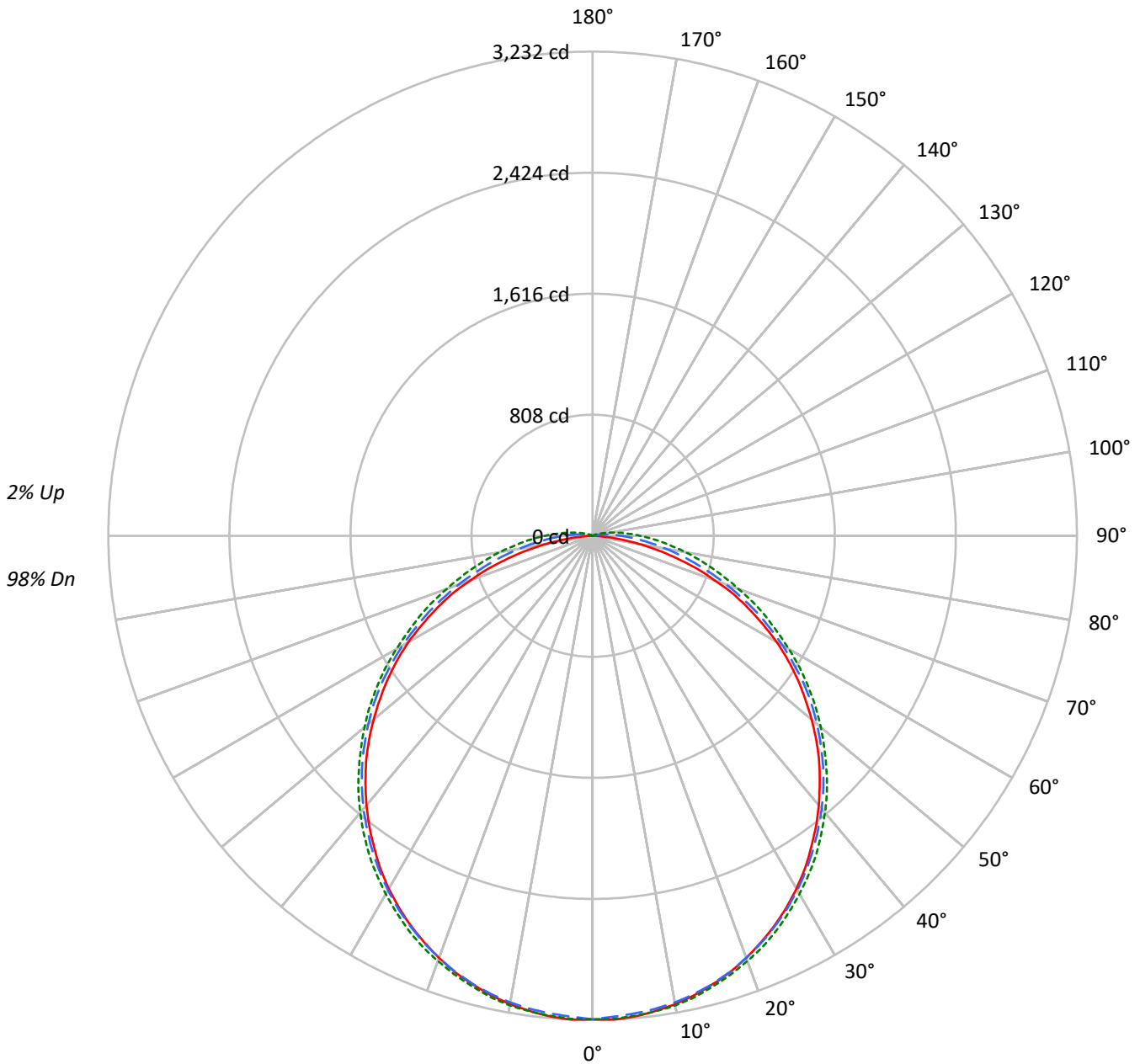
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9761.0 lumens  
Efficiency: N/A  
Efficacy: 99.9 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: P580284

CATALOG NUMBER: HVSL12-8-LD4-2LO-30-UNV-O-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P580284

CATALOG NUMBER: HVSL12-8-LD4-2LO-30-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°	4344	4344	4344
5°	4343	4274	4281
10°	4322	4224	4225
15°	4293	4164	4150
20°	4261	4095	4078
25°	4222	4022	4003
30°	4176	3943	3913
35°	4115	3854	3825
40°	4053	3759	3717
45°	3986	3654	3599
50°	3897	3530	3471
55°	3802	3392	3328
60°	3688	3204	3156
65°	3495	2992	2990
70°	3211	2736	2793
75°	2801	2456	2629
80°	2173	2194	2507
85°	1253	1957	2438



TEST NUMBER: P580284

CATALOG NUMBER: HVSL12-8-LD4-2LO-30-UNV-O-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.5	3.1
10°-20°	876.3	9.0
20°-30°	1329.7	13.6
30°-40°	1607.8	16.5
40°-50°	1677.6	17.2
50°-60°	1533.8	15.7
60°-70°	1195.7	12.2
70°-80°	748.0	7.7
80°-90°	339.7	3.5
90°-100°	113.9	1.2
100°-110°	28.6	0.3
110°-120°	4.5	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°	2511.5	25.7
0°-40°	4119.3	42.2
0°-60°	7330.7	75.1
0°-90°	9614.1	98.5
90°-120°	147.0	1.5
90°-150°	147.0	1.5
90°-180°	147.0	1.5
0°-180°	9761.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3228	3228	3228	3228	3228	
5°	3222	3215	3201	3216	3216	306
15°	3099	3104	3096	3113	3113	875
25°	2871	2874	2877	2901	2906	1323
35°	2542	2553	2564	2590	2600	1591
45°	2138	2158	2175	2196	2207	1648
55°	1669	1689	1720	1745	1756	1491
65°	1147	1167	1207	1255	1275	1135
75°	581	616	706	791	820	619
85°	100	186	319	422	459	127
90°	1	69	188	282	317	4
95°	1	18	97	177	204	1
105°	2	2	16	47	63	2
115°	2	2	3	8	12	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: P580284

CATALOG NUMBER: HVSL12-8-LD4-2LO-30-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3228.3	3228.3	3228.3	3228.3	3228.3
2.5°	3232.2	3227.6	3213.1	3227.6	3226.8
5°	3221.5	3215.4	3201.0	3216.2	3216.2
7.5°	3200.2	3197.9	3185.0	3202.5	3202.5
10°	3175.1	3174.3	3163.7	3182.7	3183.4
12.5°	3140.1	3143.1	3133.2	3151.5	3153.8
15°	3099.0	3104.3	3095.9	3113.4	3112.7
17.5°	3054.1	3057.1	3051.0	3070.8	3070.1
20°	2998.5	3002.3	2997.8	3018.3	3020.6
22.5°	2936.9	2942.2	2941.4	2962.7	2968.8
25°	2871.4	2873.7	2876.7	2901.1	2905.7
27.5°	2799.1	2802.9	2808.3	2830.3	2834.9
30°	2720.0	2726.1	2732.1	2755.0	2761.1
32.5°	2636.3	2642.3	2650.0	2679.6	2682.7
35°	2541.9	2553.3	2564.0	2589.8	2600.5
37.5°	2447.5	2462.0	2471.9	2499.3	2507.6
40°	2347.8	2362.3	2378.3	2407.2	2412.5
42.5°	2243.6	2260.3	2279.3	2305.2	2314.3
45°	2138.5	2157.6	2175.1	2196.4	2207.0
47.5°	2025.1	2044.2	2065.5	2089.8	2096.7
50°	1907.9	1930.0	1952.8	1975.7	1987.8
52.5°	1787.7	1814.3	1840.2	1864.6	1876.0
55°	1669.0	1688.8	1720.0	1745.1	1756.5
57.5°	1545.7	1562.4	1590.6	1631.7	1637.8
60°	1420.1	1435.3	1464.2	1497.7	1511.4
62.5°	1281.6	1302.1	1332.6	1375.2	1387.4
65°	1146.9	1166.7	1207.0	1255.0	1274.7
67.5°	1016.8	1023.6	1075.4	1125.6	1157.5
70°	863.0	888.9	949.0	1010.7	1035.0
72.5°	730.6	756.5	822.7	895.0	925.4
75°	580.7	616.4	706.2	790.7	820.4
77.5°	449.0	488.6	599.7	684.9	719.2
80°	313.6	375.2	496.2	592.1	629.4
82.5°	197.1	273.2	402.6	503.1	535.8
85°	100.5	185.7	318.9	421.6	458.9
87.5°	26.6	120.2	248.1	346.3	384.3
90°	0.8	69.3	188.0	282.3	316.6
92.5°	0.8	38.8	140.0	224.5	259.5
95°	0.8	18.3	97.4	176.6	204.0
97.5°	0.8	7.6	67.0	133.2	160.6
100°	0.8	3.8	42.6	96.7	120.2
102.5°	1.5	2.3	26.6	69.3	88.3
105°	1.5	2.3	16.0	47.2	63.2



TEST NUMBER: P580284

CATALOG NUMBER: HVSL12-8-LD4-2LO-30-UNV-O-EDD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	2.3	3.0	12.9	19.0
115°	2.3	2.3	3.0	8.4	12.2
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°	1.5	2.3	9.1	32.0	43.4
110°	2.3	2.3	5.3	19.8	28.9



(END OF REPORT)