

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: P580836

Luminaire Tested: **HVSL8-8-LD4-2LO-30-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580836  
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-30-UNV-O-EDD  
Description: 8 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

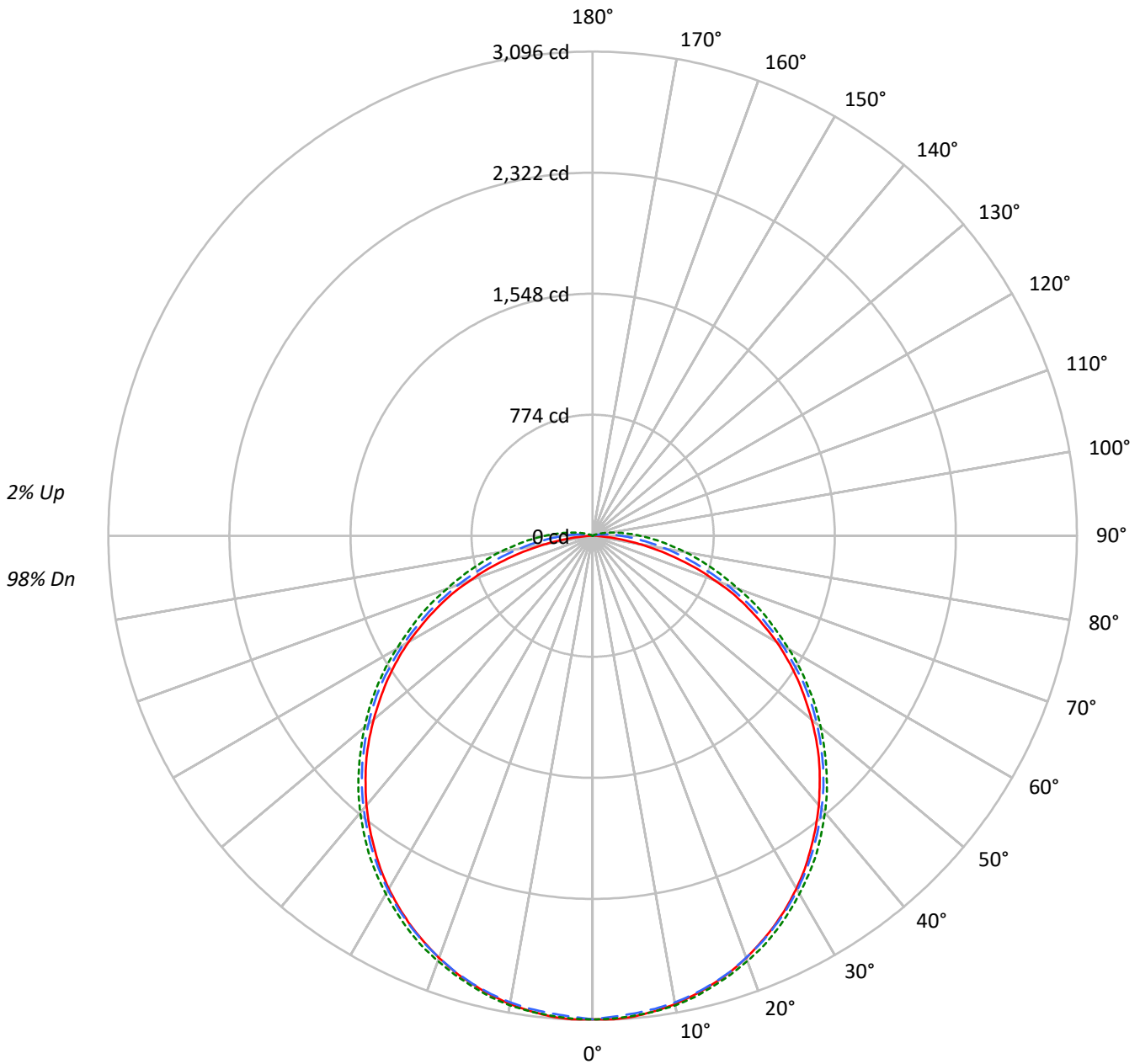
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9349.0 lumens  
Efficiency: N/A  
Efficacy: 98.3 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): 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

TEST NUMBER: P580836

CATALOG NUMBER: HVSL8-8-LD4-2LO-30-UNV-O-EDD

### 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°	6241	6241	6241
5°	6240	6109	6107
10°	6210	6007	5985
15°	6167	5893	5838
20°	6122	5765	5695
25°	6065	5633	5550
30°	5999	5491	5385
35°	5912	5335	5222
40°	5823	5170	5032
45°	5727	4990	4827
50°	5599	4781	4605
55°	5462	4552	4362
60°	5299	4251	4077
65°	5022	3913	3795
70°	4614	3514	3467
75°	4024	3076	3170
80°	3121	2648	2897
85°	1799	2217	2638



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.6	3.1
10°-20°	839.3	9.0
20°-30°	1273.5	13.6
30°-40°	1539.9	16.5
40°-50°	1606.8	17.2
50°-60°	1469.1	15.7
60°-70°	1145.2	12.2
70°-80°	716.4	7.7
80°-90°	325.4	3.5
90°-100°	109.0	1.2
100°-110°	27.4	0.3
110°-120°	4.3	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°	2405.5	25.7
0°-40°	3945.4	42.2
0°-60°	7021.2	75.1
0°-90°	9208.2	98.5
90°-120°	140.7	1.5
90°-150°	140.7	1.5
90°-180°	141.0	1.5
0°-180°	9349.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3092	3092	3092	3092	3092	
5°	3086	3080	3066	3080	3080	293
15°	2968	2973	2965	2982	2981	838
25°	2750	2752	2755	2779	2783	1267
35°	2435	2446	2456	2480	2491	1524
45°	2048	2066	2083	2104	2114	1578
55°	1598	1618	1647	1671	1682	1428
65°	1098	1117	1156	1202	1221	1087
75°	556	590	676	757	786	593
85°	96	178	305	404	440	122
90°	1	66	180	270	303	4
95°	1	18	93	169	195	1
105°	2	2	15	45	60	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: P580836

CATALOG NUMBER: HVSL8-8-LD4-2LO-30-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3092.1	3092.1	3092.1	3092.1	3092.1
2.5°	3095.7	3091.4	3077.5	3091.4	3090.6
5°	3085.5	3079.7	3065.8	3080.4	3080.4
7.5°	3065.1	3062.9	3050.5	3067.3	3067.3
10°	3041.1	3040.3	3030.1	3048.3	3049.1
12.5°	3007.5	3010.4	3001.0	3018.5	3020.7
15°	2968.2	2973.3	2965.3	2982.0	2981.3
17.5°	2925.2	2928.1	2922.2	2941.2	2940.5
20°	2872.0	2875.6	2871.2	2890.9	2893.1
22.5°	2812.9	2818.0	2817.3	2837.7	2843.5
25°	2750.2	2752.4	2755.3	2778.6	2783.0
27.5°	2681.0	2684.6	2689.7	2710.9	2715.2
30°	2605.2	2611.0	2616.8	2638.7	2644.5
32.5°	2525.0	2530.8	2538.1	2566.5	2569.4
35°	2434.6	2445.5	2455.7	2480.5	2490.7
37.5°	2344.2	2358.1	2367.5	2393.8	2401.8
40°	2248.7	2262.6	2277.9	2305.6	2310.7
42.5°	2148.9	2164.9	2183.1	2207.9	2216.6
45°	2048.3	2066.5	2083.3	2103.7	2113.9
47.5°	1939.7	1957.9	1978.3	2001.6	2008.2
50°	1827.4	1848.5	1870.4	1892.3	1903.9
52.5°	1712.2	1737.7	1762.5	1785.9	1796.8
55°	1598.5	1617.5	1647.4	1671.4	1682.4
57.5°	1480.4	1496.5	1523.4	1562.8	1568.6
60°	1360.2	1374.7	1402.4	1434.5	1447.6
62.5°	1227.5	1247.2	1276.3	1317.2	1328.8
65°	1098.5	1117.4	1156.1	1202.0	1220.9
67.5°	973.8	980.4	1030.0	1078.1	1108.7
70°	826.6	851.4	909.0	968.0	991.3
72.5°	699.8	724.5	788.0	857.2	886.4
75°	556.2	590.4	676.4	757.3	785.8
77.5°	430.1	468.0	574.4	656.0	688.8
80°	300.3	359.4	475.3	567.1	602.8
82.5°	188.8	261.7	385.6	481.8	513.2
85°	96.2	177.9	305.4	403.8	439.5
87.5°	25.5	115.2	237.6	331.7	368.1
90°	0.7	66.3	180.0	270.4	303.2
92.5°	0.7	37.2	134.1	215.0	248.6
95°	0.7	17.5	93.3	169.1	195.4
97.5°	0.7	7.3	64.1	127.6	153.8
100°	0.7	3.6	40.8	92.6	115.2
102.5°	1.5	2.2	25.5	66.3	84.6
105°	1.5	2.2	15.3	45.2	60.5



TEST NUMBER: P580836

CATALOG NUMBER: HVSL8-8-LD4-2LO-30-UNV-O-EDD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	2.2	2.9	12.4	18.2
115°	2.2	2.2	2.9	8.0	11.7
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	2.2	8.7	30.6	41.5
110°	2.2	2.2	5.1	19.0	27.7



(END OF REPORT)