

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: P580257

Luminaire Tested: **HVSL12-8-LD4-1HI-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580257
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-50-UNV-O-EDD-90
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

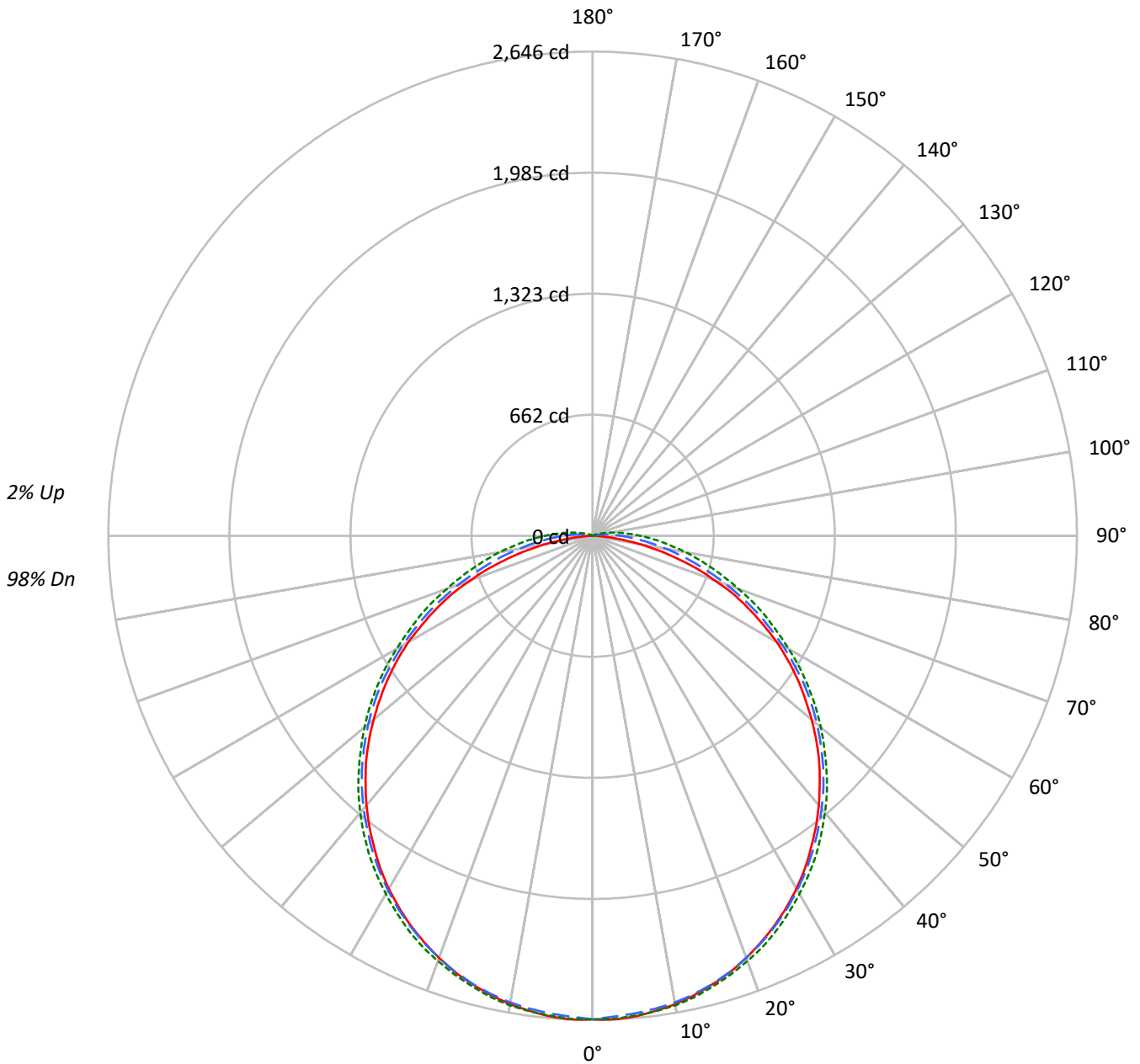
Lumens per Lamp: N/A
Luminaire Lumens: 7991.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 91
Input Voltage (V): NR
Input Current (A_{in}): 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: P580257

CATALOG NUMBER: HVSL12-8-LD4-1HI-50-UNV-O-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P580257

CATALOG NUMBER: HVSL12-8-LD4-1HI-50-UNV-O-EDD-90

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°	3556	3556	3556
5°	3556	3499	3505
10°	3538	3458	3459
15°	3514	3409	3398
20°	3488	3352	3338
25°	3456	3293	3277
30°	3418	3228	3204
35°	3369	3155	3131
40°	3318	3077	3043
45°	3263	2992	2947
50°	3190	2890	2842
55°	3112	2777	2725
60°	3020	2623	2584
65°	2861	2449	2448
70°	2629	2240	2286
75°	2293	2011	2152
80°	1779	1796	2052
85°	1025	1602	1996



TEST NUMBER: P580257

CATALOG NUMBER: HVSL12-8-LD4-1HI-50-UNV-O-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.1	3.1
10°-20°	717.4	9.0
20°-30°	1088.5	13.6
30°-40°	1316.2	16.5
40°-50°	1373.4	17.2
50°-60°	1255.7	15.7
60°-70°	978.9	12.2
70°-80°	612.3	7.7
80°-90°	278.1	3.5
90°-100°	93.2	1.2
100°-110°	23.4	0.3
110°-120°	3.7	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°	2056.1	25.7
0°-40°	3372.3	42.2
0°-60°	6001.4	75.1
0°-90°	7870.7	98.5
90°-120°	120.3	1.5
90°-150°	120.3	1.5
90°-180°	120.0	1.5
0°-180°	7991.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2643	2643	2643	2643	2643	
5°	2637	2632	2620	2633	2633	250
15°	2537	2541	2534	2549	2548	716
25°	2351	2353	2355	2375	2379	1083
35°	2081	2090	2099	2120	2129	1302
45°	1751	1766	1781	1798	1807	1349
55°	1366	1382	1408	1429	1438	1221
65°	939	955	988	1027	1044	929
75°	475	505	578	647	672	507
85°	82	152	261	345	376	104
90°	1	57	154	231	259	3
95°	1	15	80	144	167	0
105°	1	2	13	39	52	1
115°	2	2	2	7	10	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: P580257

CATALOG NUMBER: HVSL12-8-LD4-1HI-50-UNV-O-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2642.9	2642.9	2642.9	2642.9	2642.9
2.5°	2646.1	2642.3	2630.5	2642.3	2641.7
5°	2637.3	2632.3	2620.5	2633.0	2633.0
7.5°	2619.9	2618.0	2607.4	2621.8	2621.8
10°	2599.3	2598.7	2590.0	2605.6	2606.2
12.5°	2570.7	2573.2	2565.1	2580.0	2581.9
15°	2537.0	2541.4	2534.5	2548.9	2548.2
17.5°	2500.3	2502.8	2497.8	2514.0	2513.3
20°	2454.8	2457.9	2454.2	2471.0	2472.8
22.5°	2404.3	2408.7	2408.1	2425.5	2430.5
25°	2350.7	2352.6	2355.1	2375.0	2378.8
27.5°	2291.5	2294.7	2299.0	2317.1	2320.8
30°	2226.7	2231.7	2236.7	2255.4	2260.4
32.5°	2158.2	2163.2	2169.4	2193.7	2196.2
35°	2081.0	2090.3	2099.0	2120.2	2128.9
37.5°	2003.7	2015.5	2023.6	2046.1	2052.9
40°	1922.1	1933.9	1947.0	1970.7	1975.0
42.5°	1836.7	1850.4	1866.0	1887.2	1894.7
45°	1750.7	1766.3	1780.7	1798.1	1806.8
47.5°	1657.9	1673.5	1690.9	1710.9	1716.5
50°	1562.0	1580.0	1598.7	1617.4	1627.4
52.5°	1463.5	1485.3	1506.5	1526.5	1535.8
55°	1366.3	1382.5	1408.1	1428.6	1438.0
57.5°	1265.4	1279.1	1302.2	1335.8	1340.8
60°	1162.6	1175.1	1198.7	1226.1	1237.4
62.5°	1049.2	1066.0	1090.9	1125.8	1135.8
65°	938.9	955.1	988.1	1027.4	1043.6
67.5°	832.4	838.0	880.4	921.5	947.6
70°	706.5	727.7	776.9	827.4	847.3
72.5°	598.1	619.3	673.5	732.7	757.6
75°	475.4	504.7	578.2	647.3	671.6
77.5°	367.6	400.0	491.0	560.7	588.8
80°	256.7	307.2	406.2	484.7	515.3
82.5°	161.4	223.7	329.6	411.8	438.6
85°	82.2	152.0	261.1	345.2	375.7
87.5°	21.8	98.4	203.1	283.5	314.6
90°	0.6	56.7	153.9	231.1	259.2
92.5°	0.6	31.8	114.6	183.8	212.5
95°	0.6	15.0	79.7	144.5	167.0
97.5°	0.6	6.2	54.8	109.0	131.5
100°	0.6	3.1	34.9	79.1	98.4
102.5°	1.2	1.9	21.8	56.7	72.3
105°	1.2	1.9	13.1	38.6	51.7



TEST NUMBER: P580257

CATALOG NUMBER: HVSL12-8-LD4-1HI-50-UNV-O-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	1.9	2.5	10.6	15.6
115°	1.9	1.9	2.5	6.9	10.0
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°	1.2	1.9	7.5	26.2	35.5
110°	1.9	1.9	4.4	16.2	23.7



(END OF REPORT)