

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: P580114

Luminaire Tested: **HVSL12-2-LD4-1HI-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580114
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: HVSL12-2-LD4-1HI-50-UNV-O-EDD
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

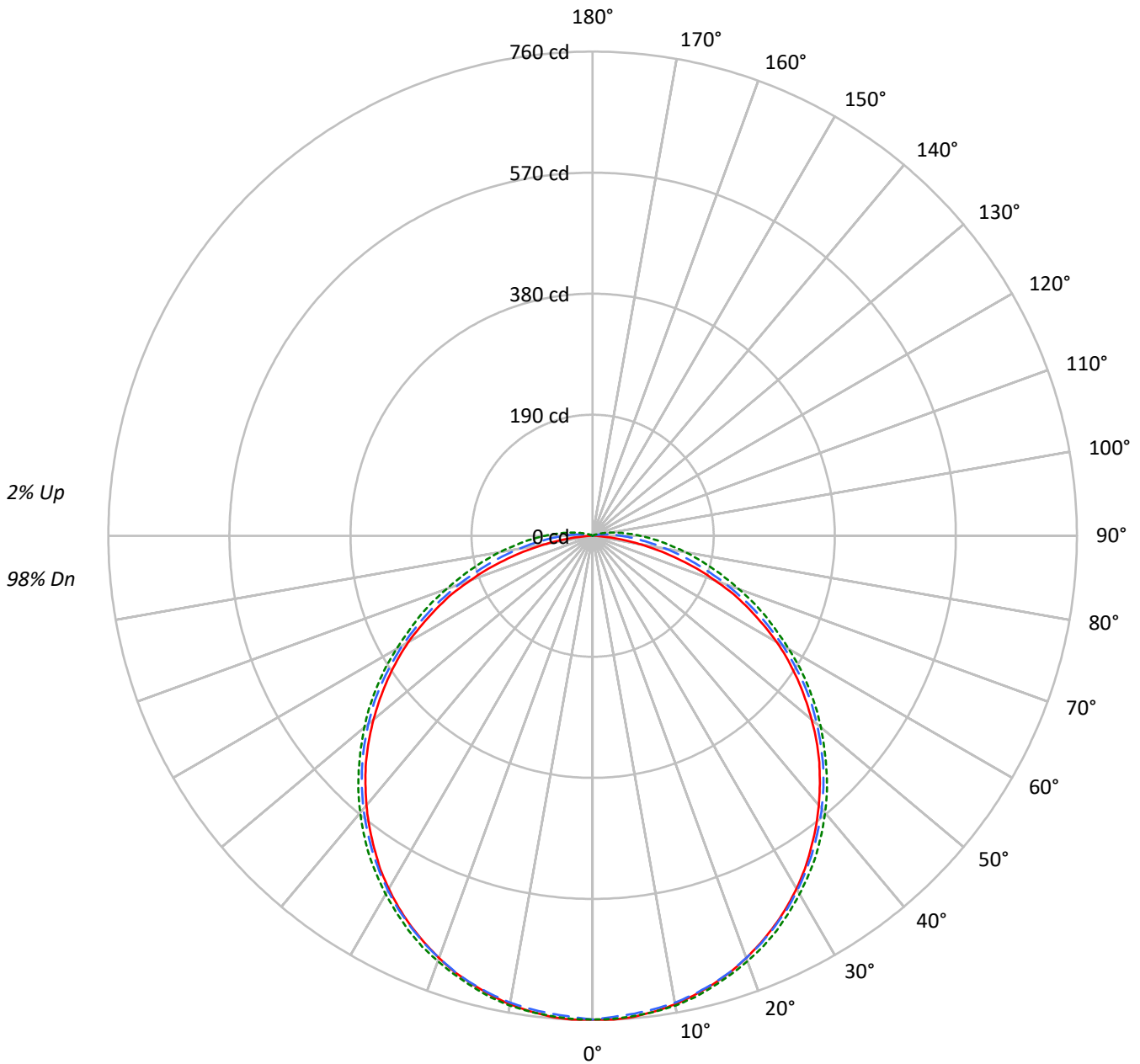
Lumens per Lamp: N/A
Luminaire Lumens: 2296.0 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 22.8
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: P580114

CATALOG NUMBER: HVSL12-2-LD4-1HI-50-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580114

CATALOG NUMBER: HVSL12-2-LD4-1HI-50-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°	4087	4087	4087
5°	4064	4006	4028
10°	4022	3944	3975
15°	3973	3874	3905
20°	3921	3794	3837
25°	3861	3712	3766
30°	3794	3624	3682
35°	3712	3526	3599
40°	3627	3422	3498
45°	3534	3309	3386
50°	3418	3177	3266
55°	3292	3031	3132
60°	3142	2838	2969
65°	2915	2621	2812
70°	2599	2364	2628
75°	2167	2081	2474
80°	1553	1806	2358
85°	746	1533	2293



TEST NUMBER: P580114

CATALOG NUMBER: HVSL12-2-LD4-1HI-50-UNV-O-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	3.1
10°-20°	206.1	9.0
20°-30°	312.8	13.6
30°-40°	378.2	16.5
40°-50°	394.6	17.2
50°-60°	360.8	15.7
60°-70°	281.3	12.2
70°-80°	175.9	7.7
80°-90°	79.9	3.5
90°-100°	26.8	1.2
100°-110°	6.7	0.3
110°-120°	1.1	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°	590.8	25.7
0°-40°	968.9	42.2
0°-60°	1724.3	75.1
0°-90°	2261.4	98.5
90°-120°	34.6	1.5
90°-150°	34.6	1.5
90°-180°	35.0	1.5
0°-180°	2296.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	759	759	759	759	759	
5°	758	756	753	756	756	72
15°	729	730	728	732	732	206
25°	675	676	677	682	684	311
35°	598	601	603	609	612	374
45°	503	508	512	517	519	388
55°	393	397	405	410	413	351
65°	270	274	284	295	300	267
75°	137	145	166	186	193	146
85°	24	44	75	99	108	30
90°	0	16	44	66	74	1
95°	0	4	23	42	48	0
105°	0	0	4	11	15	0
115°	0	0	1	2	3	0
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: P580114

CATALOG NUMBER: HVSL12-2-LD4-1HI-50-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	759.4	759.4	759.4	759.4	759.4
2.5°	760.3	759.2	755.8	759.2	759.0
5°	757.8	756.3	752.9	756.5	756.5
7.5°	752.8	752.2	749.2	753.3	753.3
10°	746.8	746.7	744.2	748.6	748.8
12.5°	738.6	739.3	737.0	741.3	741.8
15°	728.9	730.2	728.2	732.3	732.2
17.5°	718.4	719.1	717.7	722.3	722.1
20°	705.3	706.2	705.1	710.0	710.5
22.5°	690.8	692.1	691.9	696.9	698.3
25°	675.4	676.0	676.7	682.4	683.5
27.5°	658.4	659.3	660.6	665.8	666.8
30°	639.8	641.2	642.7	648.0	649.5
32.5°	620.1	621.5	623.3	630.3	631.0
35°	597.9	600.6	603.1	609.2	611.7
37.5°	575.7	579.1	581.4	587.9	589.9
40°	552.3	555.7	559.4	566.2	567.5
42.5°	527.7	531.7	536.1	542.2	544.4
45°	503.0	507.5	511.6	516.6	519.1
47.5°	476.4	480.8	485.8	491.6	493.2
50°	448.8	454.0	459.4	464.7	467.6
52.5°	420.5	426.8	432.9	438.6	441.3
55°	392.6	397.2	404.6	410.5	413.2
57.5°	363.6	367.5	374.1	383.8	385.2
60°	334.0	337.6	344.4	352.3	355.5
62.5°	301.5	306.3	313.5	323.5	326.3
65°	269.8	274.4	283.9	295.2	299.8
67.5°	239.2	240.8	252.9	264.8	272.3
70°	203.0	209.1	223.2	237.7	243.5
72.5°	171.9	177.9	193.5	210.5	217.7
75°	136.6	145.0	166.1	186.0	193.0
77.5°	105.6	114.9	141.1	161.1	169.2
80°	73.8	88.3	116.7	139.3	148.0
82.5°	46.4	64.3	94.7	118.3	126.0
85°	23.6	43.7	75.0	99.2	107.9
87.5°	6.3	28.3	58.4	81.5	90.4
90°	0.2	16.3	44.2	66.4	74.5
92.5°	0.2	9.1	32.9	52.8	61.0
95°	0.2	4.3	22.9	41.5	48.0
97.5°	0.2	1.8	15.8	31.3	37.8
100°	0.2	0.9	10.0	22.7	28.3
102.5°	0.4	0.5	6.3	16.3	20.8
105°	0.4	0.5	3.8	11.1	14.9



TEST NUMBER: P580114

CATALOG NUMBER: HVSL12-2-LD4-1HI-50-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	0.5	0.7	3.0	4.5
115°	0.5	0.5	0.7	2.0	2.9
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°	0.4	0.5	2.1	7.5	10.2
110°	0.5	0.5	1.3	4.7	6.8



(END OF REPORT)