

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: P580113

Luminaire Tested: **HVSL12-2-LD4-1HI-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580113
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-90
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

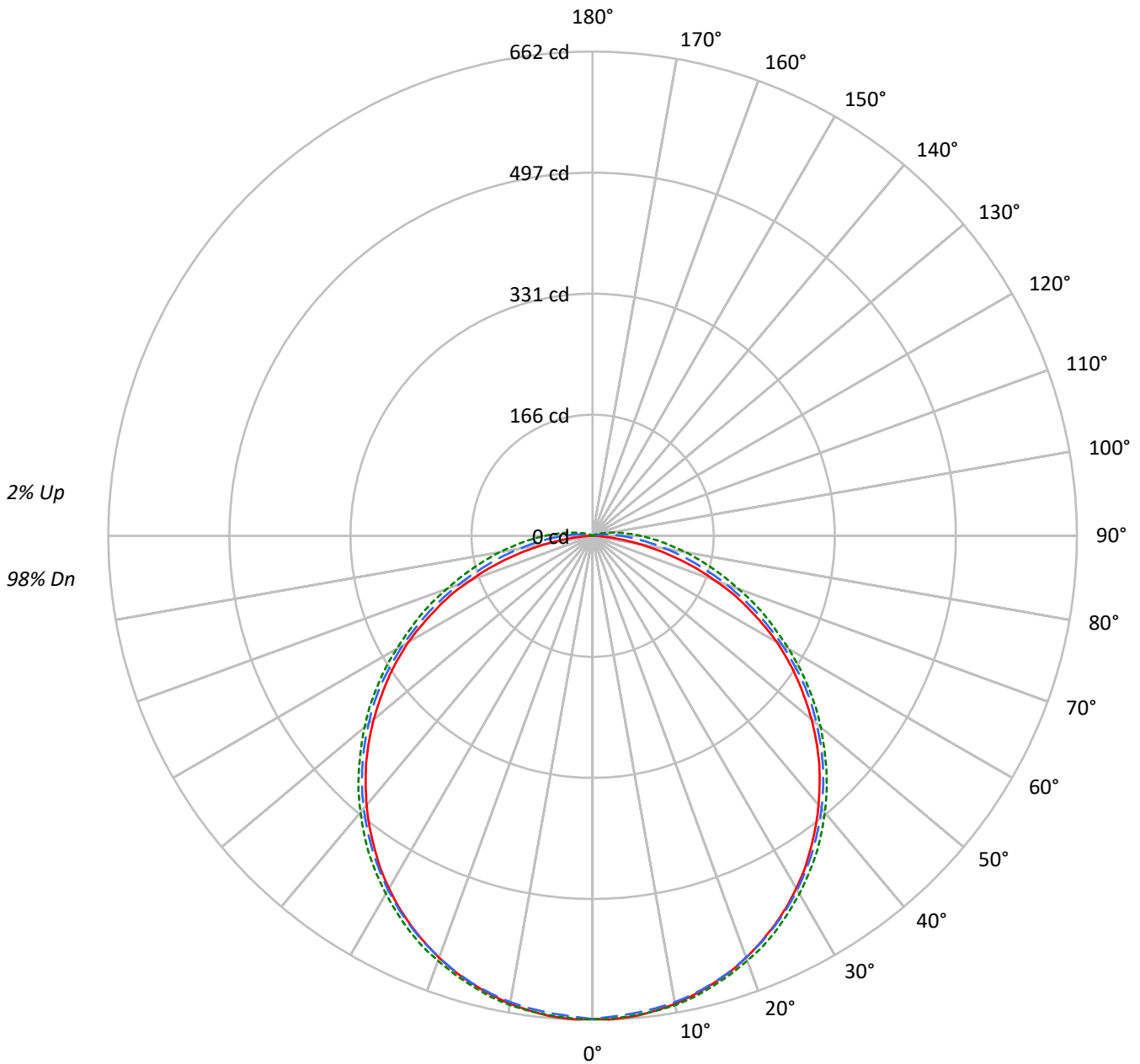
Lumens per Lamp: N/A
Luminaire Lumens: 1998.0 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

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

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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°	3556	3556	3556
5°	3537	3486	3505
10°	3500	3432	3459
15°	3457	3371	3398
20°	3412	3302	3339
25°	3360	3230	3277
30°	3301	3153	3204
35°	3230	3068	3132
40°	3156	2978	3044
45°	3075	2879	2947
50°	2974	2764	2842
55°	2864	2638	2725
60°	2734	2470	2584
65°	2537	2282	2448
70°	2262	2058	2287
75°	1886	1811	2152
80°	1351	1572	2052
85°	651	1335	1996



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.5	3.1
10°-20°	179.4	9.0
20°-30°	272.2	13.6
30°-40°	329.1	16.5
40°-50°	343.4	17.2
50°-60°	314.0	15.7
60°-70°	244.8	12.2
70°-80°	153.1	7.7
80°-90°	69.5	3.5
90°-100°	23.3	1.2
100°-110°	5.9	0.3
110°-120°	0.9	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°	514.1	25.7
0°-40°	843.2	42.2
0°-60°	1500.5	75.1
0°-90°	1967.9	98.5
90°-120°	30.1	1.5
90°-150°	30.1	1.5
90°-180°	30.0	1.5
0°-180°	1998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	661	661	661	661	661	
5°	659	658	655	658	658	63
15°	634	635	634	637	637	179
25°	588	588	589	594	595	271
35°	520	523	525	530	532	326
45°	438	442	445	450	452	337
55°	342	346	352	357	360	305
65°	235	239	247	257	261	232
75°	119	126	145	162	168	127
85°	21	38	65	86	94	26
90°	0	14	38	58	65	1
95°	0	4	20	36	42	0
105°	0	0	3	10	13	0
115°	0	0	1	2	2	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	660.8	660.8	660.8	660.8	660.8
2.5°	661.6	660.7	657.7	660.7	660.5
5°	659.4	658.2	655.2	658.3	658.3
7.5°	655.1	654.6	651.9	655.5	655.5
10°	649.9	649.8	647.6	651.5	651.6
12.5°	642.7	643.4	641.3	645.1	645.6
15°	634.3	635.4	633.7	637.3	637.1
17.5°	625.1	625.8	624.5	628.6	628.4
20°	613.8	614.6	613.6	617.8	618.3
22.5°	601.2	602.2	602.1	606.5	607.7
25°	587.8	588.2	588.8	593.8	594.8
27.5°	573.0	573.7	574.8	579.3	580.3
30°	556.8	558.0	559.2	563.9	565.2
32.5°	539.6	540.9	542.4	548.5	549.1
35°	520.3	522.6	524.8	530.1	532.3
37.5°	501.0	503.9	506.0	511.6	513.3
40°	480.6	483.5	486.8	492.7	493.8
42.5°	459.2	462.7	466.6	471.9	473.7
45°	437.7	441.6	445.2	449.6	451.8
47.5°	414.5	418.4	422.8	427.8	429.2
50°	390.5	395.1	399.7	404.4	406.9
52.5°	365.9	371.4	376.7	381.7	384.0
55°	341.6	345.7	352.1	357.2	359.5
57.5°	316.4	319.8	325.6	334.0	335.2
60°	290.7	293.8	299.7	306.6	309.4
62.5°	262.3	266.5	272.8	281.5	284.0
65°	234.8	238.8	247.1	256.9	260.9
67.5°	208.1	209.5	220.1	230.4	236.9
70°	176.7	182.0	194.3	206.9	211.9
72.5°	149.5	154.8	168.4	183.2	189.4
75°	118.9	126.2	144.6	161.9	167.9
77.5°	91.9	100.0	122.8	140.2	147.2
80°	64.2	76.8	101.6	121.2	128.8
82.5°	40.3	55.9	82.4	103.0	109.7
85°	20.6	38.0	65.3	86.3	93.9
87.5°	5.5	24.6	50.8	70.9	78.7
90°	0.2	14.2	38.5	57.8	64.8
92.5°	0.2	7.9	28.7	46.0	53.1
95°	0.2	3.7	19.9	36.1	41.7
97.5°	0.2	1.6	13.7	27.3	32.9
100°	0.2	0.8	8.7	19.8	24.6
102.5°	0.3	0.5	5.5	14.2	18.1
105°	0.3	0.5	3.3	9.7	12.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	0.5	0.6	2.6	3.9
115°	0.5	0.5	0.6	1.7	2.5
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°	0.3	0.5	1.9	6.5	8.9
110°	0.5	0.5	1.1	4.1	5.9



(END OF REPORT)