

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: P580120

Luminaire Tested: **HVSL12-2-LD4-1LO-40-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580120
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-LD4-1LO-40-UNV-O-EDD
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

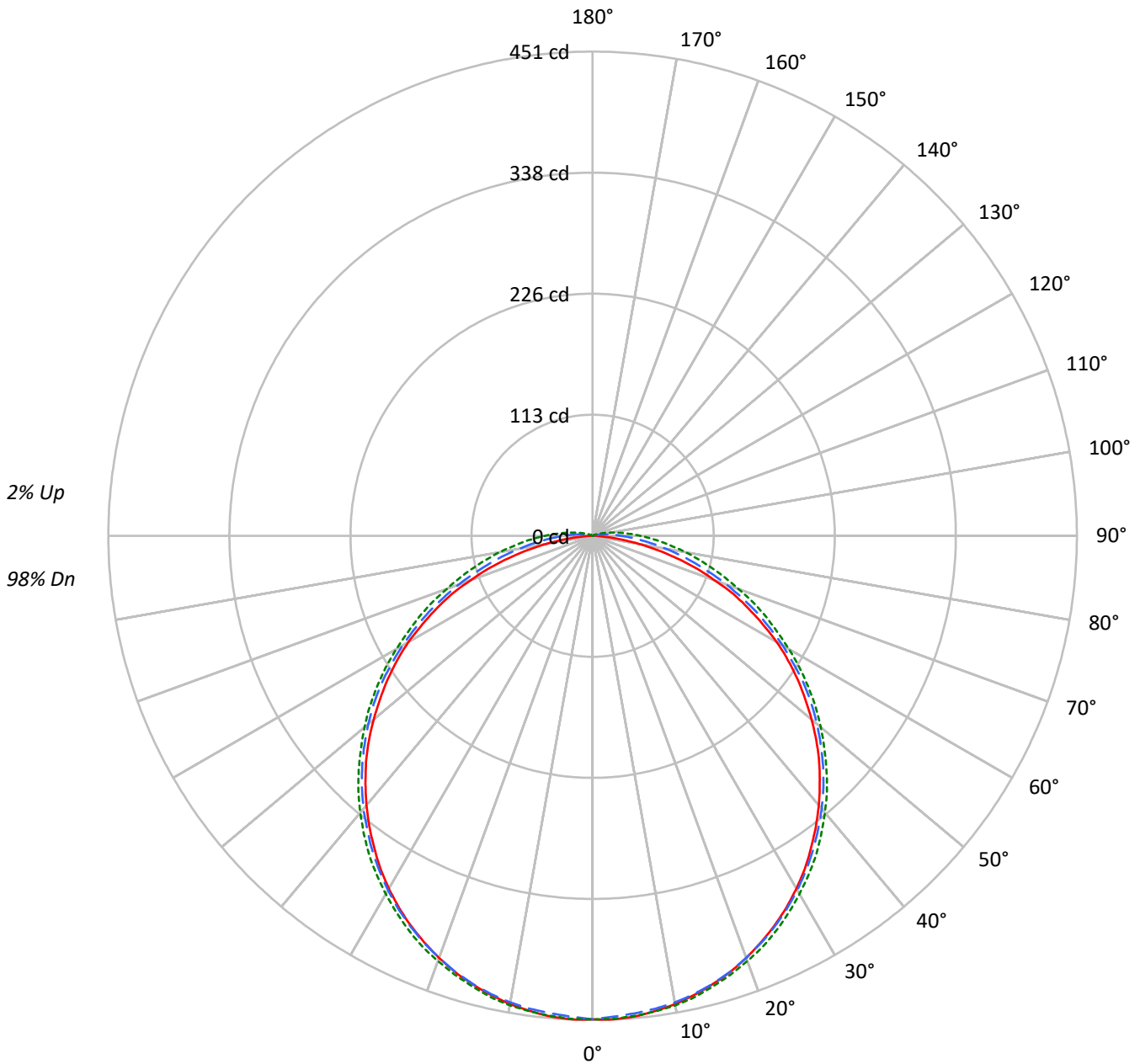
Lumens per Lamp: N/A
Luminaire Lumens: 1362.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 12.2
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°	2425	2425	2425
5°	2411	2376	2390
10°	2386	2339	2358
15°	2357	2298	2316
20°	2326	2251	2276
25°	2290	2202	2234
30°	2250	2150	2184
35°	2202	2092	2135
40°	2151	2031	2075
45°	2096	1963	2009
50°	2027	1885	1938
55°	1953	1798	1858
60°	1864	1684	1762
65°	1729	1555	1669
70°	1542	1402	1558
75°	1285	1234	1468
80°	922	1071	1399
85°	443	910	1360



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	3.1
10°-20°	122.3	9.0
20°-30°	185.5	13.6
30°-40°	224.3	16.5
40°-50°	234.1	17.2
50°-60°	214.0	15.7
60°-70°	166.8	12.2
70°-80°	104.4	7.7
80°-90°	47.4	3.5
90°-100°	15.9	1.2
100°-110°	4.0	0.3
110°-120°	0.6	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°	350.4	25.7
0°-40°	574.8	42.2
0°-60°	1022.9	75.1
0°-90°	1341.5	98.5
90°-120°	20.5	1.5
90°-150°	20.5	1.5
90°-180°	20.0	1.5
0°-180°	1362.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	450	450	450	450	450	
5°	450	449	447	449	449	43
15°	432	433	432	434	434	122
25°	401	401	401	405	405	185
35°	355	356	358	361	363	222
45°	298	301	304	306	308	230
55°	233	236	240	244	245	208
65°	160	163	168	175	178	158
75°	81	86	98	110	114	86
85°	14	26	44	59	64	18
90°	0	10	26	39	44	1
95°	0	2	14	25	28	0
105°	0	0	2	7	9	0
115°	0	0	0	1	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°	450.5	450.5	450.5	450.5	450.5
2.5°	451.0	450.4	448.3	450.4	450.3
5°	449.5	448.7	446.6	448.8	448.8
7.5°	446.5	446.2	444.4	446.9	446.9
10°	443.0	442.9	441.4	444.1	444.2
12.5°	438.1	438.6	437.2	439.7	440.1
15°	432.4	433.2	432.0	434.4	434.3
17.5°	426.1	426.6	425.7	428.5	428.4
20°	418.4	418.9	418.3	421.2	421.5
22.5°	409.8	410.5	410.4	413.4	414.3
25°	400.7	401.0	401.4	404.8	405.4
27.5°	390.6	391.1	391.8	394.9	395.6
30°	379.5	380.4	381.2	384.4	385.3
32.5°	367.8	368.7	369.8	373.9	374.3
35°	354.7	356.3	357.8	361.4	362.9
37.5°	341.5	343.5	344.9	348.7	349.9
40°	327.6	329.6	331.9	335.9	336.6
42.5°	313.1	315.4	318.0	321.7	322.9
45°	298.4	301.1	303.5	306.5	308.0
47.5°	282.6	285.2	288.2	291.6	292.6
50°	266.2	269.3	272.5	275.7	277.4
52.5°	249.4	253.2	256.8	260.2	261.8
55°	232.9	235.6	240.0	243.5	245.1
57.5°	215.7	218.0	221.9	227.7	228.5
60°	198.2	200.3	204.3	209.0	210.9
62.5°	178.8	181.7	185.9	191.9	193.6
65°	160.0	162.8	168.4	175.1	177.9
67.5°	141.9	142.8	150.0	157.1	161.5
70°	120.4	124.0	132.4	141.0	144.4
72.5°	101.9	105.6	114.8	124.9	129.1
75°	81.0	86.0	98.5	110.3	114.5
77.5°	62.7	68.2	83.7	95.6	100.4
80°	43.8	52.4	69.2	82.6	87.8
82.5°	27.5	38.1	56.2	70.2	74.8
85°	14.0	25.9	44.5	58.8	64.0
87.5°	3.7	16.8	34.6	48.3	53.6
90°	0.1	9.7	26.2	39.4	44.2
92.5°	0.1	5.4	19.5	31.3	36.2
95°	0.1	2.5	13.6	24.6	28.5
97.5°	0.1	1.1	9.3	18.6	22.4
100°	0.1	0.5	5.9	13.5	16.8
102.5°	0.2	0.3	3.7	9.7	12.3
105°	0.2	0.3	2.2	6.6	8.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.4	1.8	2.7
115°	0.3	0.3	0.4	1.2	1.7
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°	0.2	0.3	1.3	4.5	6.1
110°	0.3	0.3	0.7	2.8	4.0



(END OF REPORT)