

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: P580123

Luminaire Tested: **HVSL12-2-LD4-1STD-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580123
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-LD4-1STD-30-UNV-O-EDD-90
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

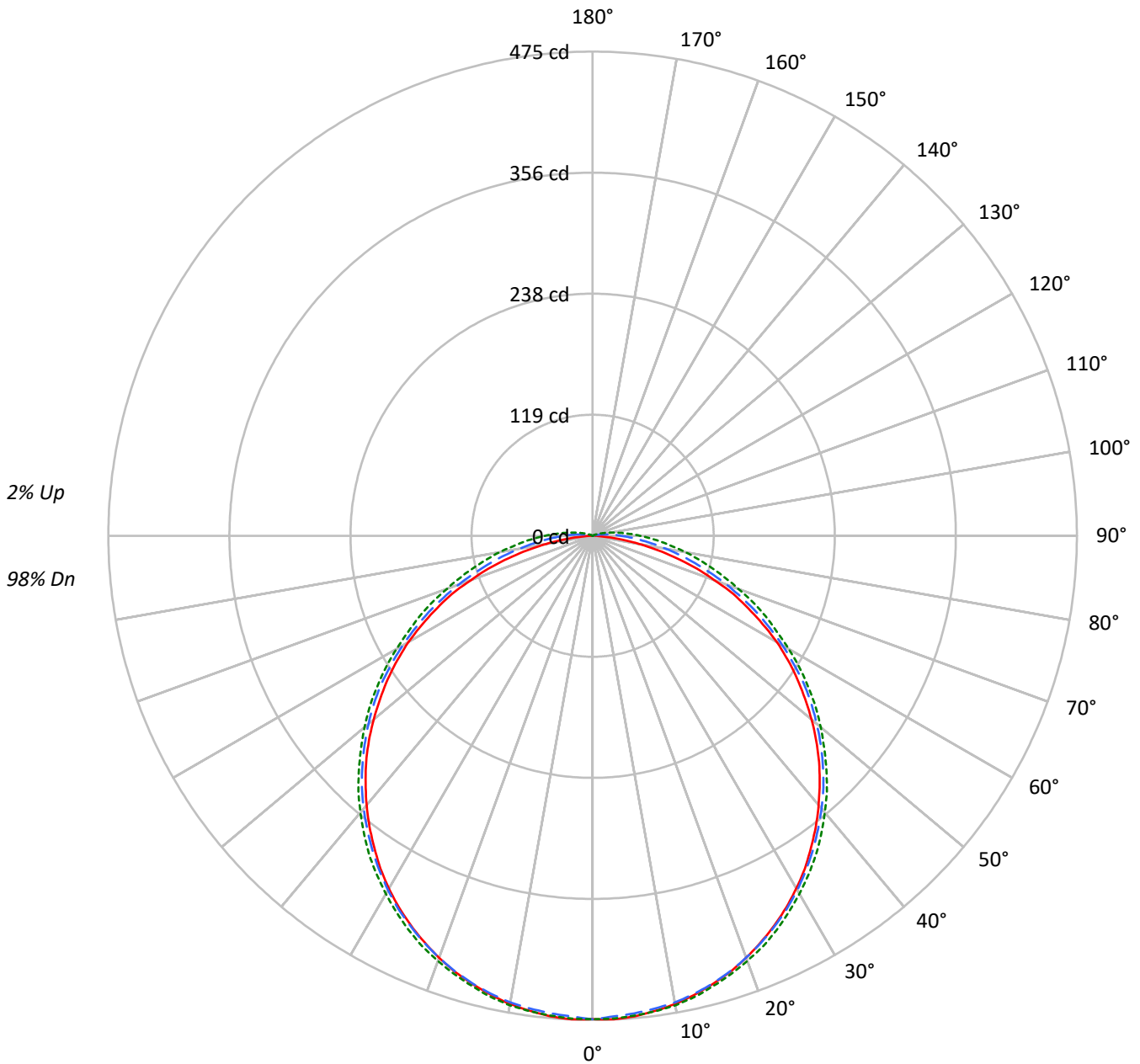
Lumens per Lamp: N/A
Luminaire Lumens: 1434.0 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 17.3
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				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°	2553	2553	2553
5°	2538	2502	2516
10°	2512	2463	2483
15°	2481	2419	2439
20°	2449	2370	2396
25°	2411	2318	2352
30°	2369	2263	2299
35°	2318	2202	2247
40°	2265	2138	2184
45°	2207	2066	2115
50°	2135	1984	2040
55°	2056	1893	1955
60°	1962	1772	1854
65°	1820	1637	1757
70°	1624	1476	1642
75°	1353	1300	1545
80°	970	1128	1474
85°	468	957	1433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	3.1
10°-20°	128.7	9.0
20°-30°	195.3	13.6
30°-40°	236.2	16.5
40°-50°	246.5	17.2
50°-60°	225.3	15.7
60°-70°	175.7	12.3
70°-80°	109.9	7.7
80°-90°	49.9	3.5
90°-100°	16.7	1.2
100°-110°	4.2	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°	369.0	25.7
0°-40°	605.2	42.2
0°-60°	1076.9	75.1
0°-90°	1412.4	98.5
90°-120°	21.6	1.5
90°-150°	21.6	1.5
90°-180°	22.0	1.5
0°-180°	1434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	474	474	474	474	474	
5°	473	472	470	472	472	45
15°	455	456	455	457	457	129
25°	422	422	423	426	427	194
35°	373	375	377	380	382	234
45°	314	317	320	323	324	242
55°	245	248	253	256	258	219
65°	168	171	177	184	187	167
75°	85	91	104	116	120	91
85°	15	27	47	62	67	19
90°	0	10	28	42	46	1
95°	0	3	14	26	30	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°	474.3	474.3	474.3	474.3	474.3
2.5°	474.8	474.2	472.0	474.2	474.1
5°	473.3	472.4	470.3	472.5	472.5
7.5°	470.1	469.8	467.9	470.5	470.5
10°	466.5	466.3	464.8	467.6	467.7
12.5°	461.3	461.8	460.3	463.0	463.3
15°	455.3	456.1	454.8	457.4	457.3
17.5°	448.7	449.1	448.2	451.1	451.0
20°	440.5	441.1	440.4	443.4	443.8
22.5°	431.5	432.2	432.1	435.3	436.2
25°	421.8	422.2	422.6	426.2	426.9
27.5°	411.2	411.8	412.6	415.8	416.5
30°	399.6	400.5	401.4	404.7	405.6
32.5°	387.3	388.2	389.3	393.7	394.1
35°	373.4	375.1	376.7	380.5	382.0
37.5°	359.6	361.7	363.1	367.2	368.4
40°	344.9	347.0	349.4	353.6	354.4
42.5°	329.6	332.1	334.9	338.7	340.0
45°	314.2	317.0	319.5	322.7	324.2
47.5°	297.5	300.3	303.4	307.0	308.0
50°	280.3	283.5	286.9	290.2	292.0
52.5°	262.6	266.5	270.3	273.9	275.6
55°	245.2	248.1	252.7	256.4	258.0
57.5°	227.1	229.5	233.7	239.7	240.6
60°	208.6	210.9	215.1	220.0	222.0
62.5°	188.3	191.3	195.8	202.0	203.8
65°	168.5	171.4	177.3	184.4	187.3
67.5°	149.4	150.4	158.0	165.4	170.1
70°	126.8	130.6	139.4	148.5	152.1
72.5°	107.3	111.1	120.9	131.5	136.0
75°	85.3	90.6	103.8	116.2	120.5
77.5°	66.0	71.8	88.1	100.6	105.7
80°	46.1	55.1	72.9	87.0	92.5
82.5°	29.0	40.1	59.1	73.9	78.7
85°	14.8	27.3	46.8	61.9	67.4
87.5°	3.9	17.7	36.4	50.9	56.5
90°	0.1	10.2	27.6	41.5	46.5
92.5°	0.1	5.7	20.6	33.0	38.1
95°	0.1	2.7	14.3	25.9	30.0
97.5°	0.1	1.1	9.8	19.6	23.6
100°	0.1	0.6	6.3	14.2	17.7
102.5°	0.2	0.3	3.9	10.2	13.0
105°	0.2	0.3	2.3	6.9	9.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.4	1.9	2.8
115°	0.3	0.3	0.4	1.2	1.8
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	4.7	6.4
110°	0.3	0.3	0.8	2.9	4.2



(END OF REPORT)