

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: P580115

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580115
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-30-UNV-O-EDD-90
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

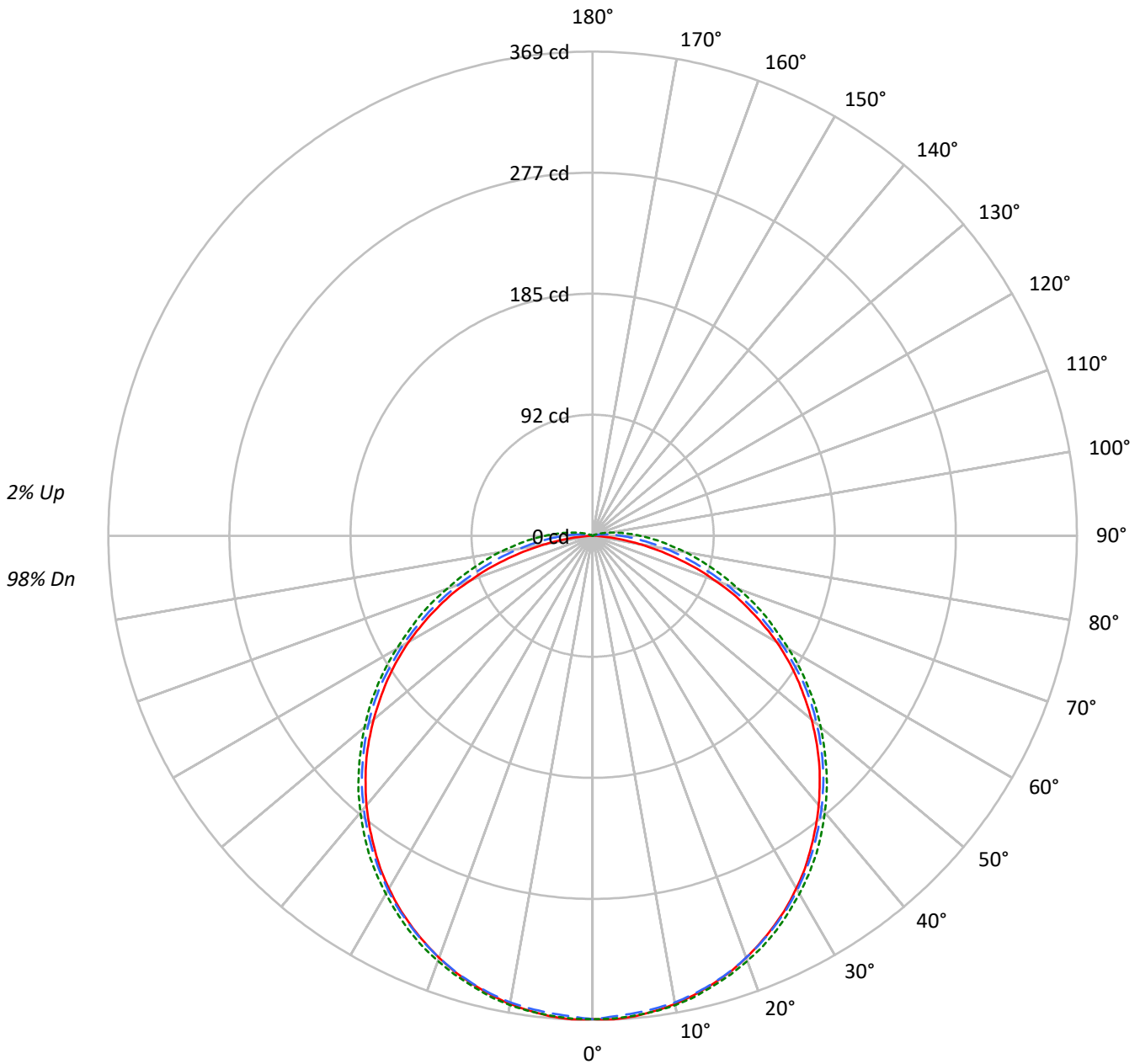
Lumens per Lamp: N/A
Luminaire Lumens: 1114.0 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

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°	1983	1983	1983
5°	1972	1943	1955
10°	1952	1914	1929
15°	1928	1879	1894
20°	1902	1841	1861
25°	1873	1801	1827
30°	1840	1758	1786
35°	1801	1711	1746
40°	1760	1660	1697
45°	1715	1605	1643
50°	1658	1541	1585
55°	1597	1471	1520
60°	1525	1377	1441
65°	1414	1272	1365
70°	1261	1147	1275
75°	1052	1010	1200
80°	753	876	1144
85°	364	744	1114



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.9	3.1
10°-20°	100.0	9.0
20°-30°	151.7	13.6
30°-40°	183.5	16.5
40°-50°	191.5	17.2
50°-60°	175.1	15.7
60°-70°	136.5	12.2
70°-80°	85.4	7.7
80°-90°	38.8	3.5
90°-100°	13.0	1.2
100°-110°	3.3	0.3
110°-120°	0.5	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°	286.6	25.7
0°-40°	470.1	42.2
0°-60°	836.6	75.1
0°-90°	1097.2	98.5
90°-120°	16.8	1.5
90°-150°	16.8	1.5
90°-180°	17.0	1.5
0°-180°	1114.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	368	368	368	368	368	
5°	368	367	365	367	367	35
15°	354	354	353	355	355	100
25°	328	328	328	331	332	151
35°	290	291	293	296	297	182
45°	244	246	248	251	252	188
55°	190	193	196	199	200	170
65°	131	133	138	143	146	130
75°	66	70	81	90	94	71
85°	12	21	36	48	52	15
90°	0	8	22	32	36	0
95°	0	2	11	20	23	0
105°	0	0	2	5	7	0
115°	0	0	0	1	1	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	368.4	368.4	368.4	368.4	368.4
2.5°	368.9	368.4	366.7	368.4	368.3
5°	367.7	367.0	365.3	367.1	367.1
7.5°	365.2	365.0	363.5	365.5	365.5
10°	362.4	362.3	361.1	363.2	363.3
12.5°	358.4	358.7	357.6	359.7	359.9
15°	353.7	354.3	353.3	355.3	355.2
17.5°	348.6	348.9	348.2	350.5	350.4
20°	342.2	342.6	342.1	344.5	344.7
22.5°	335.2	335.8	335.7	338.1	338.8
25°	327.7	328.0	328.3	331.1	331.6
27.5°	319.5	319.9	320.5	323.0	323.5
30°	310.4	311.1	311.8	314.4	315.1
32.5°	300.9	301.6	302.4	305.8	306.2
35°	290.1	291.4	292.6	295.6	296.8
37.5°	279.3	281.0	282.1	285.2	286.2
40°	268.0	269.6	271.4	274.7	275.3
42.5°	256.1	258.0	260.1	263.1	264.1
45°	244.1	246.2	248.2	250.7	251.9
47.5°	231.1	233.3	235.7	238.5	239.3
50°	217.7	220.3	222.9	225.5	226.9
52.5°	204.0	207.1	210.0	212.8	214.1
55°	190.5	192.7	196.3	199.2	200.5
57.5°	176.4	178.3	181.5	186.2	186.9
60°	162.1	163.8	167.1	170.9	172.5
62.5°	146.3	148.6	152.1	156.9	158.3
65°	130.9	133.2	137.8	143.2	145.5
67.5°	116.0	116.8	122.7	128.5	132.1
70°	98.5	101.4	108.3	115.3	118.1
72.5°	83.4	86.3	93.9	102.1	105.6
75°	66.3	70.4	80.6	90.2	93.6
77.5°	51.2	55.8	68.4	78.2	82.1
80°	35.8	42.8	56.6	67.6	71.8
82.5°	22.5	31.2	45.9	57.4	61.1
85°	11.5	21.2	36.4	48.1	52.4
87.5°	3.0	13.7	28.3	39.5	43.9
90°	0.1	7.9	21.5	32.2	36.1
92.5°	0.1	4.4	16.0	25.6	29.6
95°	0.1	2.1	11.1	20.2	23.3
97.5°	0.1	0.9	7.6	15.2	18.3
100°	0.1	0.4	4.9	11.0	13.7
102.5°	0.2	0.3	3.0	7.9	10.1
105°	0.2	0.3	1.8	5.4	7.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.3	1.5	2.2
115°	0.3	0.3	0.3	1.0	1.4
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	1.0	3.6	5.0
110°	0.3	0.3	0.6	2.3	3.3



(END OF REPORT)