

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: P580116

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

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580116  
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  
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

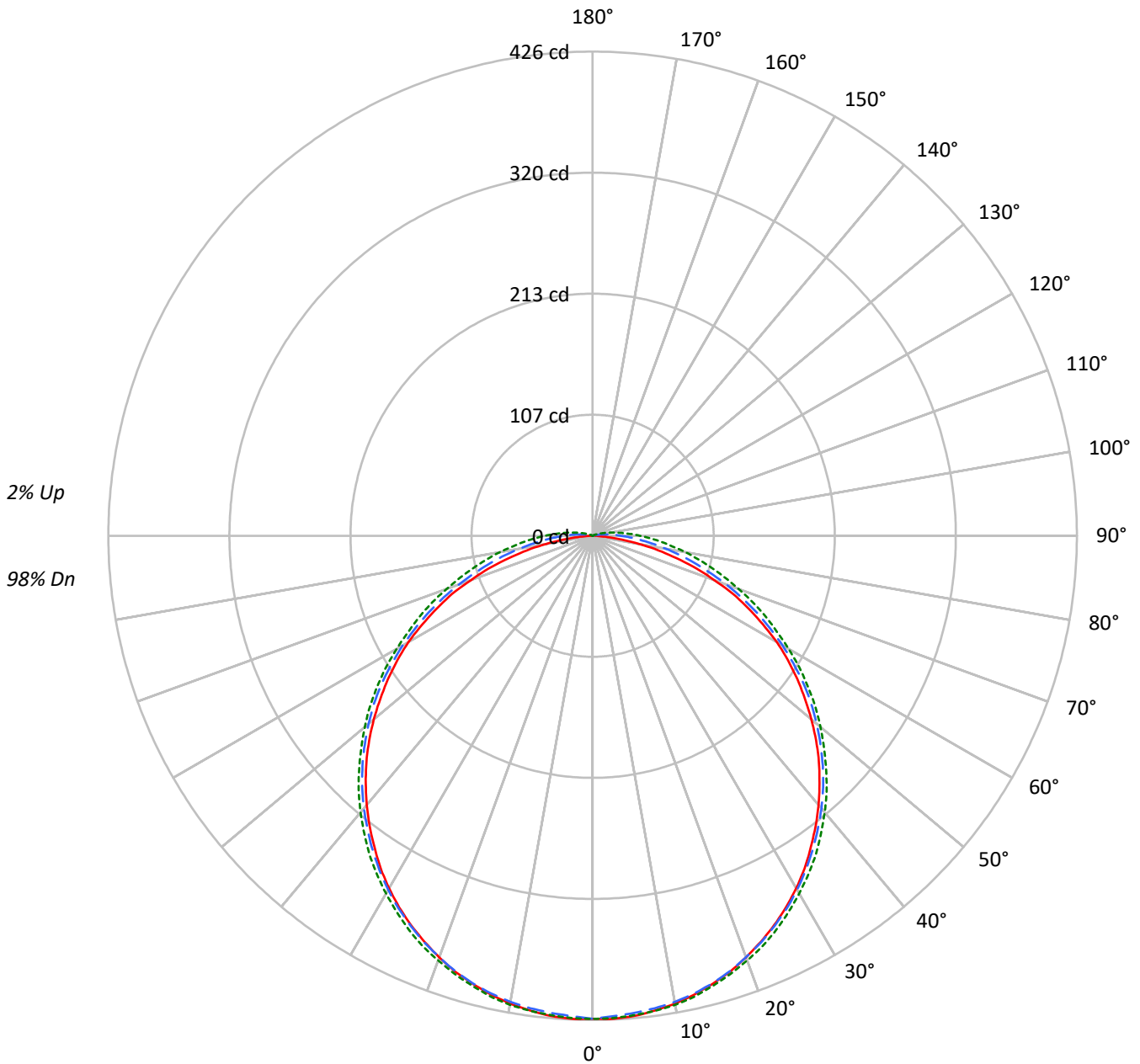
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1285.0 lumens  
Efficiency: N/A  
Efficacy: 105.3 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°	2287	2287	2287
5°	2275	2242	2255
10°	2251	2207	2225
15°	2224	2168	2186
20°	2194	2123	2147
25°	2161	2078	2108
30°	2123	2028	2061
35°	2077	1973	2014
40°	2030	1916	1958
45°	1978	1852	1895
50°	1913	1778	1828
55°	1842	1696	1752
60°	1759	1589	1662
65°	1631	1467	1574
70°	1455	1323	1471
75°	1212	1165	1384
80°	869	1011	1321
85°	417	859	1284



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.2	3.1
10°-20°	115.4	9.0
20°-30°	175.0	13.6
30°-40°	211.7	16.5
40°-50°	220.8	17.2
50°-60°	201.9	15.7
60°-70°	157.4	12.3
70°-80°	98.5	7.7
80°-90°	44.7	3.5
90°-100°	15.0	1.2
100°-110°	3.8	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°	330.6	25.7
0°-40°	542.3	42.2
0°-60°	965.1	75.1
0°-90°	1265.7	98.5
90°-120°	19.3	1.5
90°-150°	19.3	1.5
90°-180°	19.0	1.5
0°-180°	1285.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	425	425	425	425	425	
5°	424	423	421	423	423	40
15°	408	409	408	410	410	115
25°	378	378	379	382	382	174
35°	335	336	338	341	342	209
45°	282	284	286	289	290	217
55°	220	222	226	230	231	196
65°	151	154	159	165	168	149
75°	76	81	93	104	108	81
85°	13	24	42	56	60	17
90°	0	9	25	37	42	1
95°	0	2	13	23	27	0
105°	0	0	2	6	8	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



TEST NUMBER: P580116

CATALOG NUMBER: HVSL12-2-LD4-1LO-30-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	425.0	425.0	425.0	425.0	425.0
2.5°	425.5	424.9	423.0	424.9	424.8
5°	424.1	423.3	421.4	423.4	423.4
7.5°	421.3	421.0	419.3	421.6	421.6
10°	418.0	417.9	416.5	419.0	419.1
12.5°	413.4	413.8	412.5	414.9	415.2
15°	408.0	408.7	407.6	409.9	409.8
17.5°	402.1	402.5	401.7	404.3	404.2
20°	394.7	395.2	394.6	397.3	397.6
22.5°	386.6	387.3	387.2	390.0	390.8
25°	378.0	378.3	378.7	381.9	382.5
27.5°	368.5	369.0	369.7	372.6	373.2
30°	358.1	358.9	359.7	362.7	363.5
32.5°	347.1	347.9	348.9	352.8	353.2
35°	334.6	336.1	337.5	340.9	342.3
37.5°	322.2	324.1	325.4	329.0	330.1
40°	309.1	311.0	313.1	316.9	317.6
42.5°	295.4	297.6	300.1	303.5	304.7
45°	281.5	284.0	286.3	289.1	290.5
47.5°	266.6	269.1	271.9	275.1	276.0
50°	251.2	254.1	257.1	260.1	261.7
52.5°	235.3	238.8	242.3	245.5	247.0
55°	219.7	222.3	226.4	229.7	231.2
57.5°	203.5	205.7	209.4	214.8	215.6
60°	187.0	189.0	192.8	197.2	199.0
62.5°	168.7	171.4	175.4	181.0	182.6
65°	151.0	153.6	158.9	165.2	167.8
67.5°	133.9	134.8	141.6	148.2	152.4
70°	113.6	117.0	124.9	133.1	136.3
72.5°	96.2	99.6	108.3	117.8	121.8
75°	76.4	81.2	93.0	104.1	108.0
77.5°	59.1	64.3	78.9	90.2	94.7
80°	41.3	49.4	65.3	77.9	82.9
82.5°	25.9	36.0	53.0	66.2	70.5
85°	13.2	24.4	42.0	55.5	60.4
87.5°	3.5	15.8	32.7	45.6	50.6
90°	0.1	9.1	24.7	37.2	41.7
92.5°	0.1	5.1	18.4	29.6	34.2
95°	0.1	2.4	12.8	23.2	26.9
97.5°	0.1	1.0	8.8	17.5	21.1
100°	0.1	0.5	5.6	12.7	15.8
102.5°	0.2	0.3	3.5	9.1	11.6
105°	0.2	0.3	2.1	6.2	8.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.4	1.7	2.5
115°	0.3	0.3	0.4	1.1	1.6
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	1.2	4.2	5.7
110°	0.3	0.3	0.7	2.6	3.8



(END OF REPORT)