

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: P580332

Luminaire Tested: **HVSL2-2-LD4-LO-30-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

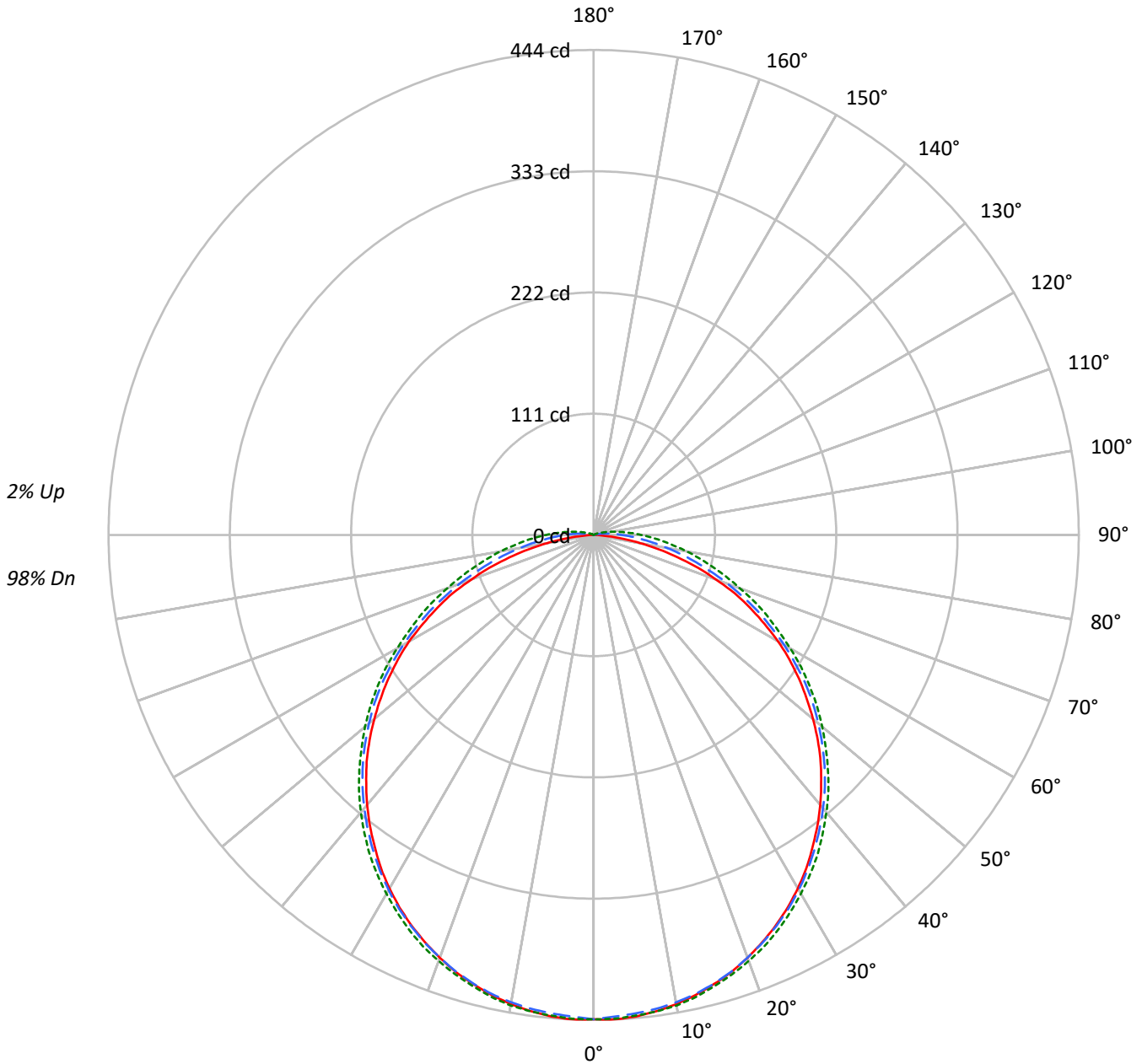
Test Method: LM-79-08  
Report Number: P580332  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-135-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/16/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: HVSL2-2-LD4-LO-30-UNV-O-EDD  
Description: 2 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1341.0 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 2' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 11.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	14321	14321	14321
5°	14243	13361	13169
10°	14096	12554	12192
15°	13921	11796	11274
20°	13738	11065	10455
25°	13530	10374	9700
30°	13295	9705	8966
35°	13007	9036	8284
40°	12710	8383	7595
45°	12385	7726	6922
50°	11977	7045	6259
55°	11536	6352	5594
60°	11011	5584	4907
65°	10216	4793	4254
70°	9111	3965	3582
75°	7594	3136	2971
80°	5442	2373	2411
85°	2618	1663	1878



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.0	3.1
10°-20°	120.4	9.0
20°-30°	182.7	13.6
30°-40°	220.9	16.5
40°-50°	230.5	17.2
50°-60°	210.7	15.7
60°-70°	164.3	12.2
70°-80°	102.8	7.7
80°-90°	46.7	3.5
90°-100°	15.6	1.2
100°-110°	3.9	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°	345.0	25.7
0°-40°	565.9	42.2
0°-60°	1007.1	75.1
0°-90°	1320.8	98.5
90°-120°	20.2	1.5
90°-150°	20.2	1.5
90°-180°	20.0	1.5
0°-180°	1341.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	444	444	444	444	444	
5°	443	442	440	442	442	42
15°	426	426	425	428	428	120
25°	394	395	395	399	399	182
35°	349	351	352	356	357	219
45°	294	296	299	302	303	226
55°	229	232	236	240	241	205
65°	158	160	166	172	175	156
75°	80	85	97	109	113	85
85°	14	26	44	58	63	17
90°	0	10	26	39	44	1
95°	0	2	13	24	28	0
105°	0	0	2	6	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



TEST NUMBER: P580332

CATALOG NUMBER: HVSL2-2-LD4-LO-30-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	443.5	443.5	443.5	443.5	443.5
2.5°	444.0	443.4	441.4	443.4	443.3
5°	442.6	441.7	439.8	441.8	441.8
7.5°	439.7	439.3	437.6	440.0	440.0
10°	436.2	436.1	434.6	437.2	437.4
12.5°	431.4	431.8	430.5	433.0	433.3
15°	425.7	426.5	425.3	427.7	427.6
17.5°	419.6	420.0	419.2	421.9	421.8
20°	411.9	412.5	411.8	414.7	415.0
22.5°	403.5	404.2	404.1	407.0	407.9
25°	394.5	394.8	395.2	398.6	399.2
27.5°	384.6	385.1	385.8	388.8	389.5
30°	373.7	374.5	375.4	378.5	379.3
32.5°	362.2	363.0	364.1	368.1	368.6
35°	349.2	350.8	352.2	355.8	357.3
37.5°	336.2	338.2	339.6	343.4	344.5
40°	322.6	324.5	326.7	330.7	331.4
42.5°	308.2	310.5	313.1	316.7	318.0
45°	293.8	296.4	298.8	301.7	303.2
47.5°	278.2	280.8	283.8	287.1	288.0
50°	262.1	265.2	268.3	271.4	273.1
52.5°	245.6	249.3	252.8	256.2	257.7
55°	229.3	232.0	236.3	239.7	241.3
57.5°	212.4	214.7	218.5	224.2	225.0
60°	195.1	197.2	201.2	205.8	207.6
62.5°	176.1	178.9	183.1	188.9	190.6
65°	157.6	160.3	165.8	172.4	175.1
67.5°	139.7	140.6	147.7	154.6	159.0
70°	118.6	122.1	130.4	138.8	142.2
72.5°	100.4	103.9	113.0	123.0	127.1
75°	79.8	84.7	97.0	108.6	112.7
77.5°	61.7	67.1	82.4	94.1	98.8
80°	43.1	51.5	68.2	81.3	86.5
82.5°	27.1	37.5	55.3	69.1	73.6
85°	13.8	25.5	43.8	57.9	63.0
87.5°	3.7	16.5	34.1	47.6	52.8
90°	0.1	9.5	25.8	38.8	43.5
92.5°	0.1	5.3	19.2	30.8	35.7
95°	0.1	2.5	13.4	24.3	28.0
97.5°	0.1	1.0	9.2	18.3	22.1
100°	0.1	0.5	5.9	13.3	16.5
102.5°	0.2	0.3	3.7	9.5	12.1
105°	0.2	0.3	2.2	6.5	8.7



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CATALOG NUMBER: HVSL2-2-LD4-LO-30-UNV-O-EDD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.4	1.8	2.6
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	4.4	6.0
110°	0.3	0.3	0.7	2.7	4.0



(END OF REPORT)