

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: P580340

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

Issue Date: 12/16/2022



**Test Information**

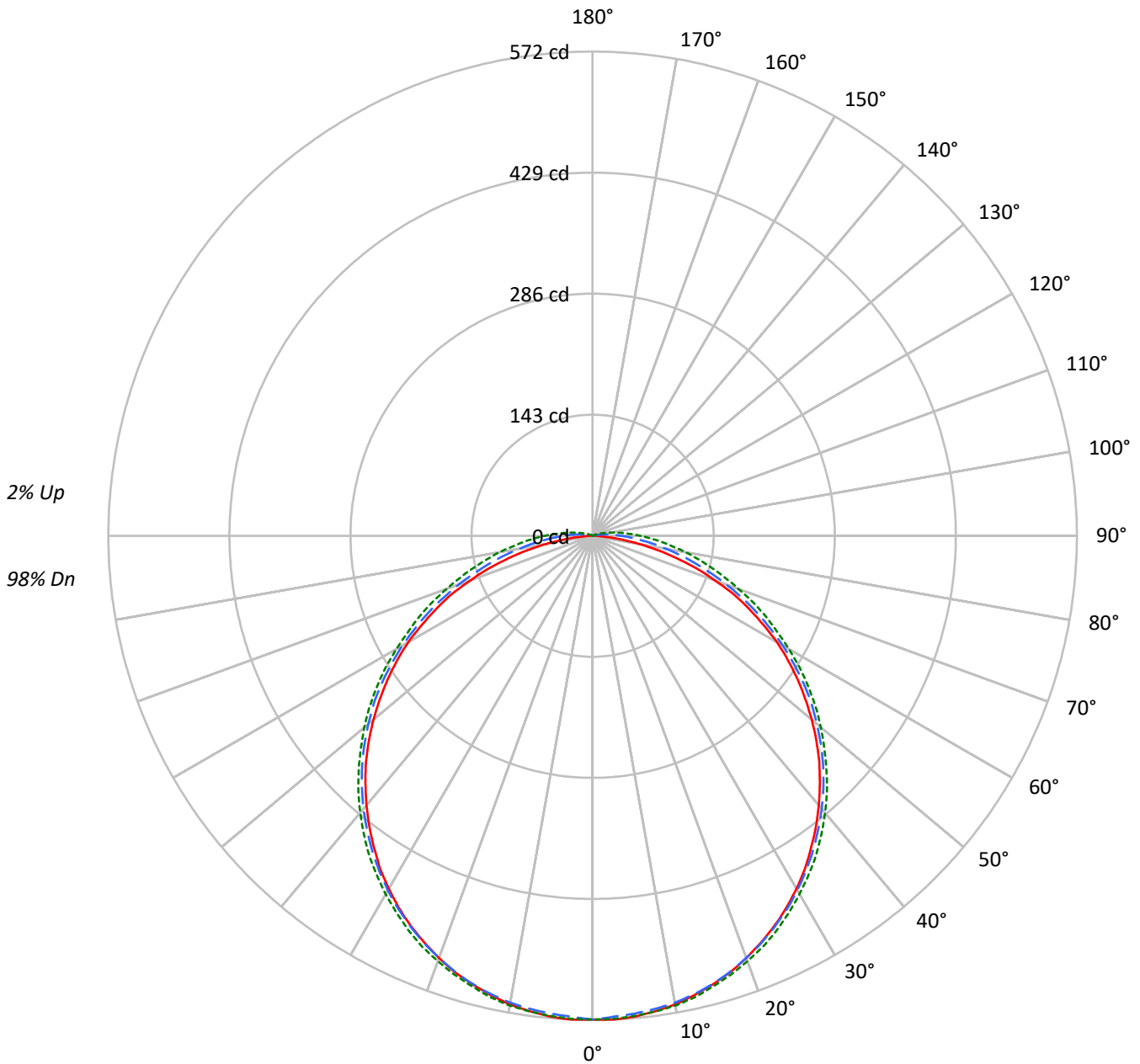
Test Method: LM-79-08  
Report Number: P580340  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-135-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/16/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: HVSL2-2-LD4-STD-30-UNV-O-EDD  
Description: 2 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1728.0 lumens  
Efficiency: N/A  
Efficacy: 105.4 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): 16.4  
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°	18455	18455	18455
5°	18352	17216	16972
10°	18164	16180	15710
15°	17940	15202	14527
20°	17703	14260	13471
25°	17433	13370	12499
30°	17130	12504	11554
35°	16761	11645	10674
40°	16374	10802	9789
45°	15959	9957	8920
50°	15437	9078	8065
55°	14867	8186	7210
60°	14188	7194	6325
65°	13159	6178	5484
70°	11738	5108	4615
75°	9783	4041	3828
80°	7008	3055	3105
85°	3377	2145	2420



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.1	3.1
10°-20°	155.1	9.0
20°-30°	235.4	13.6
30°-40°	284.6	16.5
40°-50°	297.0	17.2
50°-60°	271.5	15.7
60°-70°	211.7	12.2
70°-80°	132.4	7.7
80°-90°	60.1	3.5
90°-100°	20.1	1.2
100°-110°	5.1	0.3
110°-120°	0.8	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°	444.6	25.7
0°-40°	729.2	42.2
0°-60°	1297.8	75.1
0°-90°	1702.0	98.5
90°-120°	26.0	1.5
90°-150°	26.0	1.5
90°-180°	26.0	1.5
0°-180°	1728.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	572	572	572	572	572	
5°	570	569	567	569	569	54
15°	549	550	548	551	551	155
25°	508	509	509	514	514	234
35°	450	452	454	458	460	282
45°	379	382	385	389	391	292
55°	296	299	304	309	311	264
65°	203	206	214	222	226	201
75°	103	109	125	140	145	110
85°	18	33	56	75	81	23
90°	0	12	33	50	56	1
95°	0	3	17	31	36	0
105°	0	0	3	8	11	0
115°	0	0	0	2	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: P580340

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	571.5	571.5	571.5	571.5	571.5
2.5°	572.2	571.4	568.8	571.4	571.2
5°	570.3	569.2	566.7	569.4	569.4
7.5°	566.5	566.1	563.8	566.9	566.9
10°	562.1	562.0	560.1	563.4	563.6
12.5°	555.9	556.4	554.7	557.9	558.3
15°	548.6	549.6	548.1	551.2	551.0
17.5°	540.7	541.2	540.1	543.6	543.5
20°	530.8	531.5	530.7	534.3	534.7
22.5°	519.9	520.9	520.7	524.5	525.6
25°	508.3	508.7	509.3	513.6	514.4
27.5°	495.5	496.2	497.1	501.1	501.9
30°	481.5	482.6	483.7	487.7	488.8
32.5°	466.7	467.8	469.1	474.4	474.9
35°	450.0	452.0	453.9	458.5	460.4
37.5°	433.3	435.8	437.6	442.4	443.9
40°	415.6	418.2	421.0	426.1	427.1
42.5°	397.2	400.1	403.5	408.1	409.7
45°	378.6	382.0	385.1	388.8	390.7
47.5°	358.5	361.9	365.7	370.0	371.2
50°	337.8	341.7	345.7	349.8	351.9
52.5°	316.5	321.2	325.8	330.1	332.1
55°	295.5	299.0	304.5	308.9	311.0
57.5°	273.6	276.6	281.6	288.9	289.9
60°	251.4	254.1	259.2	265.1	267.6
62.5°	226.9	230.5	235.9	243.5	245.6
65°	203.0	206.5	213.7	222.2	225.7
67.5°	180.0	181.2	190.4	199.3	204.9
70°	152.8	157.4	168.0	178.9	183.2
72.5°	129.3	133.9	145.6	158.4	163.8
75°	102.8	109.1	125.0	140.0	145.2
77.5°	79.5	86.5	106.2	121.3	127.3
80°	55.5	66.4	87.8	104.8	111.4
82.5°	34.9	48.4	71.3	89.1	94.8
85°	17.8	32.9	56.5	74.6	81.2
87.5°	4.7	21.3	43.9	61.3	68.0
90°	0.1	12.3	33.3	50.0	56.0
92.5°	0.1	6.9	24.8	39.7	45.9
95°	0.1	3.2	17.2	31.3	36.1
97.5°	0.1	1.3	11.9	23.6	28.4
100°	0.1	0.7	7.5	17.1	21.3
102.5°	0.3	0.4	4.7	12.3	15.6
105°	0.3	0.4	2.8	8.4	11.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	0.4	0.5	2.3	3.4
115°	0.4	0.4	0.5	1.5	2.2
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°	0.3	0.4	1.6	5.7	7.7
110°	0.4	0.4	0.9	3.5	5.1



(END OF REPORT)