

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: P580363

Luminaire Tested: **HVSL2-3-LD4-STD-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580363  
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: HVSL2-3-LD4-STD-30-UNV-O-EDD-90  
Description: 3 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

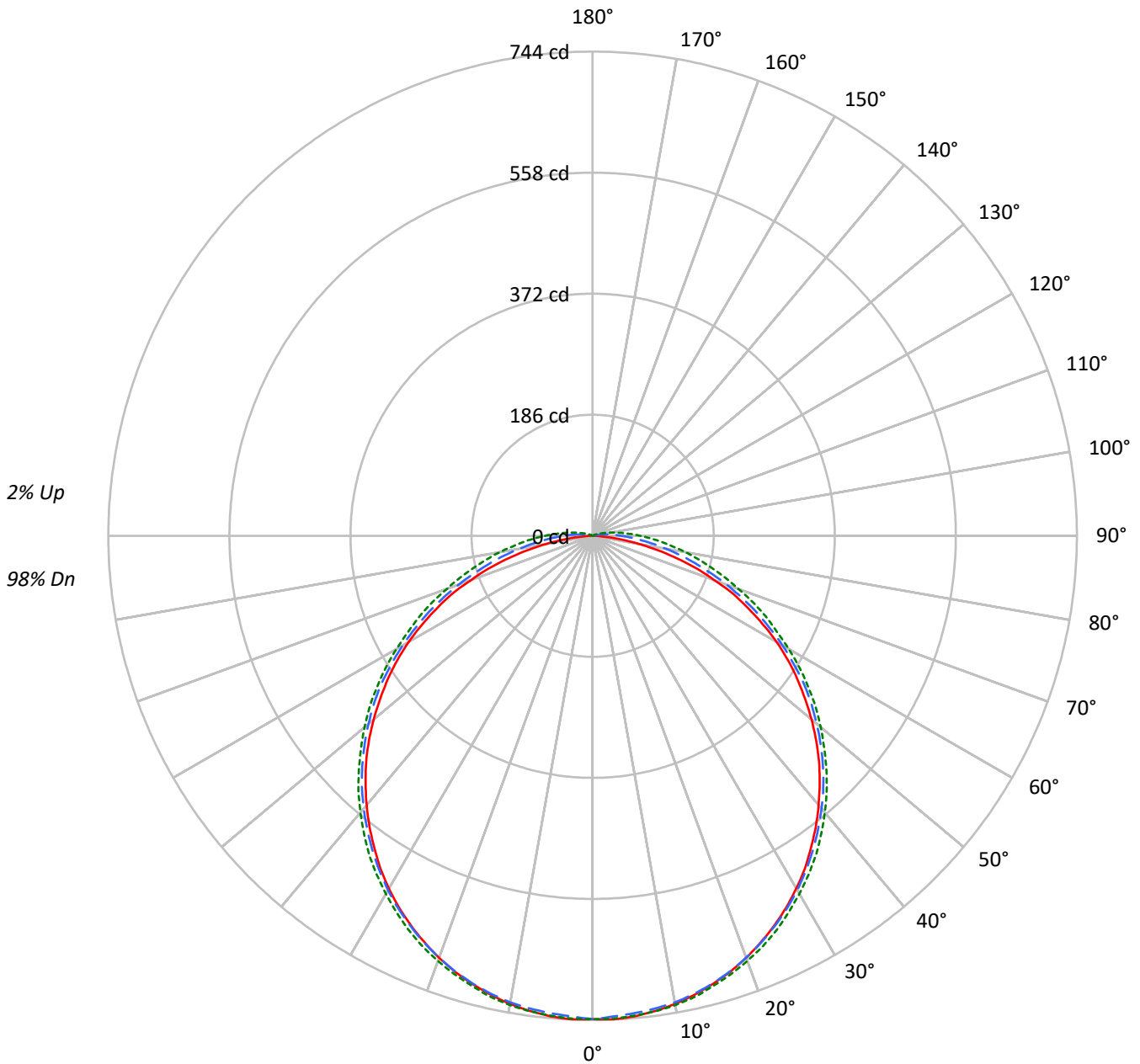
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2246.0 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 3' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 24.5  
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					
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°	15991	15991	15991
5°	15942	14940	14705
10°	15816	14063	13612
15°	15660	13231	12588
20°	15494	12426	11673
25°	15297	11662	10830
30°	15075	10921	10011
35°	14796	10183	9249
40°	14505	9455	8481
45°	14193	8725	7729
50°	13790	7963	6989
55°	13353	7190	6247
60°	12835	6326	5480
65°	12012	5439	4751
70°	10845	4506	4000
75°	9204	3570	3318
80°	6797	2705	2690
85°	3490	1902	2098



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.3	3.1
10°-20°	201.6	9.0
20°-30°	306.0	13.6
30°-40°	370.0	16.5
40°-50°	386.0	17.2
50°-60°	352.9	15.7
60°-70°	275.1	12.2
70°-80°	172.1	7.7
80°-90°	78.2	3.5
90°-100°	26.2	1.2
100°-110°	6.6	0.3
110°-120°	1.0	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°	577.9	25.7
0°-40°	947.8	42.2
0°-60°	1686.8	75.1
0°-90°	2212.2	98.5
90°-120°	33.8	1.5
90°-150°	33.8	1.5
90°-180°	34.0	1.5
0°-180°	2246.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	743	743	743	743	743	
5°	741	740	736	740	740	70
15°	713	714	712	716	716	201
25°	661	661	662	668	669	304
35°	585	588	590	596	598	366
45°	492	496	500	505	508	379
55°	384	389	396	402	404	343
65°	264	268	278	289	293	261
75°	134	142	162	182	189	142
85°	23	43	73	97	106	29
90°	0	16	43	65	73	1
95°	0	4	22	41	47	0
105°	0	0	4	11	14	0
115°	0	0	1	2	3	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°	742.8	742.8	742.8	742.8	742.8
2.5°	743.7	742.7	739.3	742.7	742.5
5°	741.3	739.9	736.5	740.0	740.0
7.5°	736.4	735.8	732.9	736.9	736.9
10°	730.6	730.4	728.0	732.3	732.5
12.5°	722.5	723.2	721.0	725.2	725.7
15°	713.1	714.3	712.4	716.4	716.2
17.5°	702.7	703.4	702.0	706.6	706.4
20°	690.0	690.8	689.8	694.5	695.0
22.5°	675.8	677.0	676.8	681.7	683.1
25°	660.7	661.2	661.9	667.5	668.6
27.5°	644.1	645.0	646.2	651.3	652.3
30°	625.9	627.3	628.7	633.9	635.3
32.5°	606.6	608.0	609.8	616.6	617.3
35°	584.9	587.5	590.0	595.9	598.4
37.5°	563.2	566.5	568.8	575.1	577.0
40°	540.2	543.6	547.2	553.9	555.1
42.5°	516.2	520.1	524.5	530.4	532.5
45°	492.1	496.5	500.5	505.4	507.8
47.5°	466.0	470.4	475.3	480.9	482.4
50°	439.0	444.1	449.3	454.6	457.4
52.5°	411.3	417.5	423.4	429.0	431.7
55°	384.0	388.6	395.8	401.5	404.2
57.5°	355.7	359.5	366.0	375.4	376.8
60°	326.8	330.3	336.9	344.6	347.8
62.5°	294.9	299.6	306.6	316.4	319.2
65°	263.9	268.5	277.7	288.8	293.3
67.5°	234.0	235.5	247.4	259.0	266.4
70°	198.6	204.5	218.4	232.6	238.2
72.5°	168.1	174.1	189.3	205.9	212.9
75°	133.6	141.8	162.5	181.9	188.8
77.5°	103.3	112.4	138.0	157.6	165.5
80°	72.1	86.3	114.2	136.2	144.8
82.5°	45.4	62.9	92.6	115.8	123.3
85°	23.1	42.7	73.4	97.0	105.6
87.5°	6.1	27.7	57.1	79.7	88.4
90°	0.2	15.9	43.3	65.0	72.8
92.5°	0.2	8.9	32.2	51.7	59.7
95°	0.2	4.2	22.4	40.6	46.9
97.5°	0.2	1.8	15.4	30.6	36.9
100°	0.2	0.9	9.8	22.2	27.7
102.5°	0.4	0.5	6.1	15.9	20.3
105°	0.4	0.5	3.7	10.9	14.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	0.5	0.7	3.0	4.4
115°	0.5	0.5	0.7	1.9	2.8
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°	0.4	0.5	2.1	7.4	10.0
110°	0.5	0.5	1.2	4.6	6.7



(END OF REPORT)