

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: P580344

Luminaire Tested: **HVSL2-2-LD4-STD-40-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580344  
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-40-UNV-O-EDD  
Description: 2 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

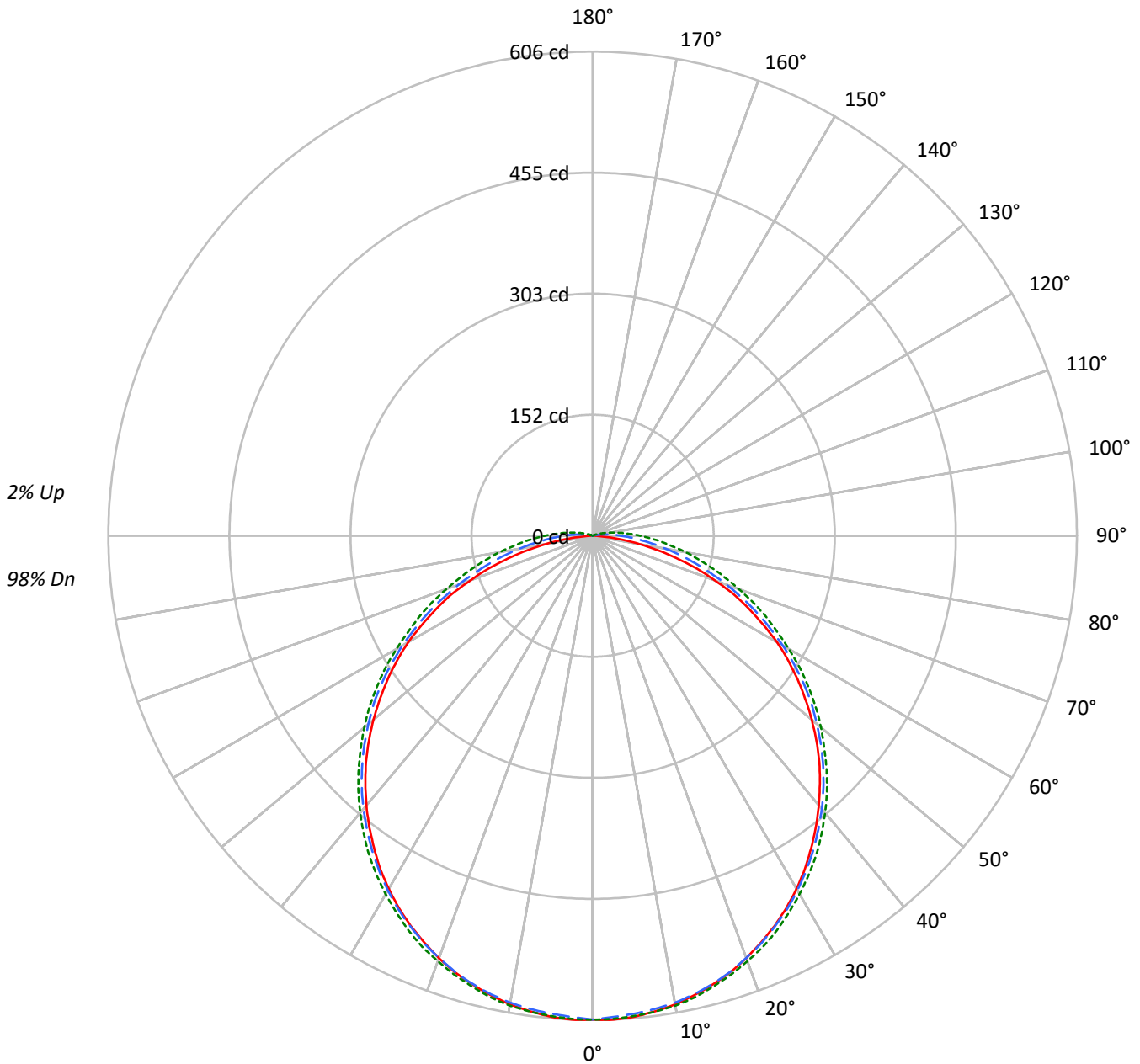
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1831.0 lumens  
Efficiency: N/A  
Efficacy: 111.6 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): 16.4  
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°	19556	19556	19556
5°	19447	18239	17982
10°	19247	17142	16646
15°	19009	16107	15395
20°	18761	15109	14274
25°	18472	14165	13245
30°	18151	13249	12242
35°	17759	12341	11309
40°	17351	11446	10371
45°	16912	10549	9452
50°	16355	9619	8546
55°	15752	8672	7639
60°	15035	7624	6701
65°	13943	6545	5809
70°	12438	5412	4892
75°	10363	4283	4057
80°	7425	3239	3291
85°	3567	2271	2566



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.3	3.1
10°-20°	164.4	9.0
20°-30°	249.4	13.6
30°-40°	301.6	16.5
40°-50°	314.7	17.2
50°-60°	287.7	15.7
60°-70°	224.3	12.2
70°-80°	140.3	7.7
80°-90°	63.7	3.5
90°-100°	21.4	1.2
100°-110°	5.4	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°	471.1	25.7
0°-40°	772.7	42.2
0°-60°	1375.1	75.1
0°-90°	1803.4	98.5
90°-120°	27.6	1.5
90°-150°	27.6	1.5
90°-180°	28.0	1.5
0°-180°	1831.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	606	606	606	606	606	
5°	604	603	600	603	603	57
15°	581	582	581	584	584	164
25°	539	539	540	544	545	248
35°	477	479	481	486	488	298
45°	401	405	408	412	414	309
55°	313	317	323	327	330	280
65°	215	219	226	235	239	213
75°	109	116	132	148	154	116
85°	19	35	60	79	86	24
90°	0	13	35	53	59	1
95°	0	3	18	33	38	0
105°	0	0	3	9	12	0
115°	0	0	1	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	605.6	605.6	605.6	605.6	605.6
2.5°	606.3	605.4	602.7	605.4	605.3
5°	604.3	603.2	600.4	603.3	603.3
7.5°	600.3	599.9	597.4	600.7	600.7
10°	595.6	595.4	593.4	597.0	597.2
12.5°	589.0	589.6	587.7	591.2	591.6
15°	581.3	582.3	580.7	584.0	583.9
17.5°	572.9	573.5	572.3	576.0	575.9
20°	562.5	563.2	562.3	566.2	566.6
22.5°	550.9	551.9	551.8	555.8	556.9
25°	538.6	539.1	539.6	544.2	545.1
27.5°	525.1	525.8	526.8	530.9	531.8
30°	510.2	511.4	512.5	516.8	517.9
32.5°	494.5	495.7	497.1	502.7	503.2
35°	476.8	479.0	481.0	485.8	487.8
37.5°	459.1	461.8	463.7	468.8	470.4
40°	440.4	443.1	446.1	451.5	452.5
42.5°	420.9	424.0	427.6	432.4	434.1
45°	401.2	404.7	408.0	412.0	414.0
47.5°	379.9	383.5	387.4	392.0	393.3
50°	357.9	362.0	366.3	370.6	372.9
52.5°	335.3	340.3	345.2	349.8	351.9
55°	313.1	316.8	322.6	327.3	329.5
57.5°	289.9	293.1	298.4	306.1	307.2
60°	266.4	269.2	274.7	280.9	283.5
62.5°	240.4	244.3	250.0	258.0	260.2
65°	215.1	218.8	226.4	235.4	239.1
67.5°	190.7	192.0	201.7	211.1	217.1
70°	161.9	166.7	178.0	189.6	194.2
72.5°	137.0	141.9	154.3	167.9	173.6
75°	108.9	115.6	132.5	148.3	153.9
77.5°	84.2	91.7	112.5	128.5	134.9
80°	58.8	70.4	93.1	111.1	118.1
82.5°	37.0	51.3	75.5	94.4	100.5
85°	18.8	34.8	59.8	79.1	86.1
87.5°	5.0	22.6	46.5	65.0	72.1
90°	0.1	13.0	35.3	53.0	59.4
92.5°	0.1	7.3	26.3	42.1	48.7
95°	0.1	3.4	18.3	33.1	38.3
97.5°	0.1	1.4	12.6	25.0	30.1
100°	0.1	0.7	8.0	18.1	22.6
102.5°	0.3	0.4	5.0	13.0	16.6
105°	0.3	0.4	3.0	8.9	11.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	0.4	0.6	2.4	3.6
115°	0.4	0.4	0.6	1.6	2.3
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	1.7	6.0	8.1
110°	0.4	0.4	1.0	3.7	5.4



(END OF REPORT)