

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: P580352

Luminaire Tested: **HVSL2-3-LD4-HI-40-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580352  
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-HI-40-UNV-O-EDD  
Description: 3 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

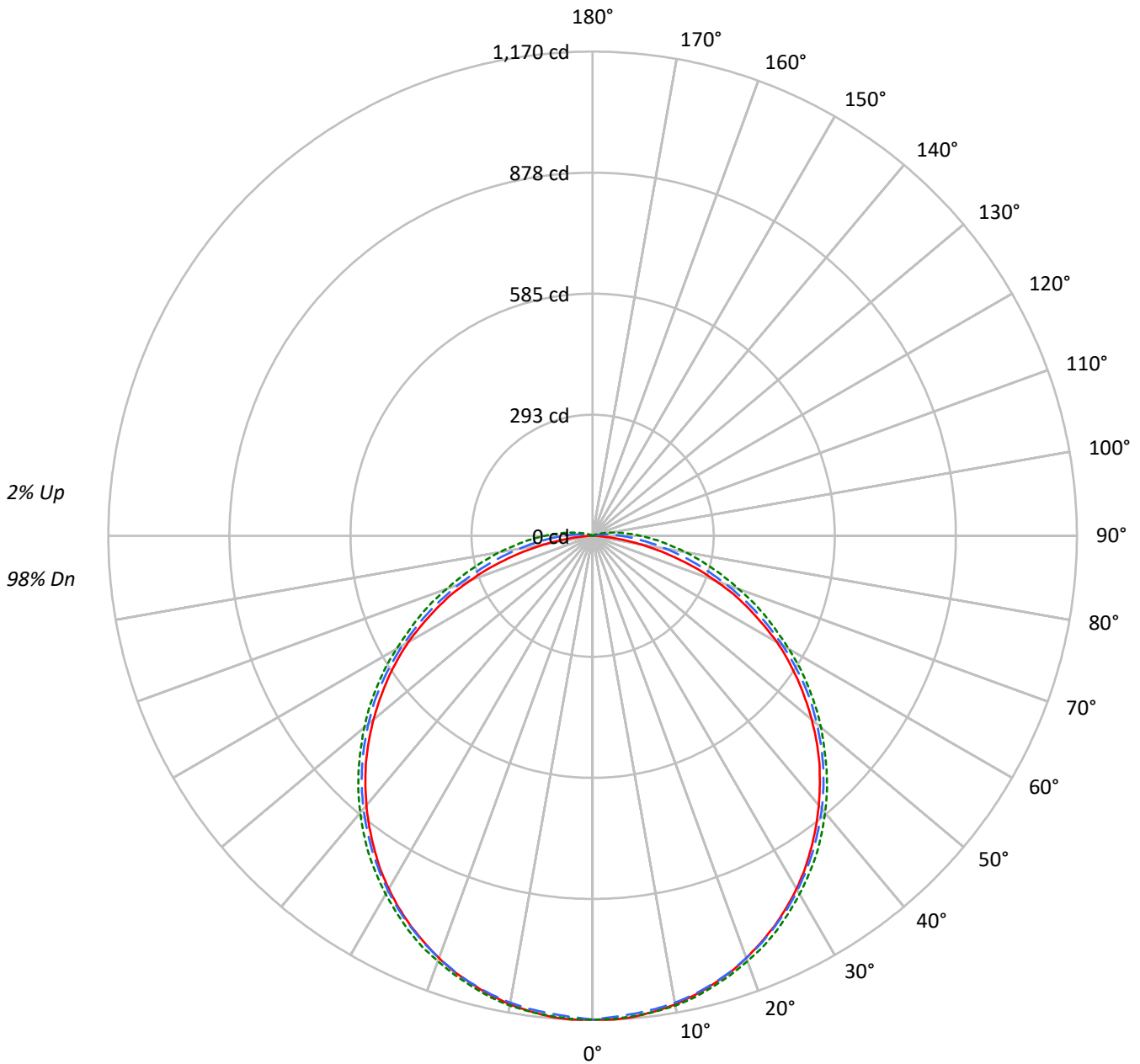
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3535.0 lumens  
Efficiency: N/A  
Efficacy: 109.4 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): 32.3  
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				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°	25170	25170	25170
5°	25090	23515	23146
10°	24893	22132	21424
15°	24646	20823	19814
20°	24384	19558	18372
25°	24077	18356	17046
30°	23727	17189	15757
35°	23288	16027	14556
40°	22831	14882	13349
45°	22338	13731	12166
50°	21705	12534	10999
55°	21017	11315	9831
60°	20199	9957	8626
65°	18907	8561	7478
70°	17065	7090	6294
75°	14488	5620	5221
80°	10709	4257	4234
85°	5499	2993	3302



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.6	3.1
10°-20°	317.4	9.0
20°-30°	481.5	13.6
30°-40°	582.3	16.5
40°-50°	607.5	17.2
50°-60°	555.5	15.7
60°-70°	433.0	12.2
70°-80°	270.9	7.7
80°-90°	123.0	3.5
90°-100°	41.2	1.2
100°-110°	10.4	0.3
110°-120°	1.6	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°	909.5	25.7
0°-40°	1491.8	42.2
0°-60°	2654.8	75.1
0°-90°	3481.8	98.5
90°-120°	53.2	1.5
90°-150°	53.2	1.5
90°-180°	53.0	1.5
0°-180°	3535.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1169	1169	1169	1169	1169	
5°	1167	1164	1159	1165	1165	111
15°	1122	1124	1121	1128	1127	317
25°	1040	1041	1042	1051	1052	479
35°	921	925	929	938	942	576
45°	774	781	788	795	799	597
55°	604	612	623	632	636	540
65°	415	422	437	454	462	411
75°	210	223	256	286	297	224
85°	36	67	116	153	166	46
90°	0	25	68	102	115	1
95°	0	7	35	64	74	0
105°	1	1	6	17	23	1
115°	1	1	1	3	4	1
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1169.2	1169.2	1169.2	1169.2	1169.2
2.5°	1170.5	1168.9	1163.7	1168.9	1168.6
5°	1166.7	1164.5	1159.2	1164.8	1164.8
7.5°	1159.0	1158.1	1153.5	1159.8	1159.8
10°	1149.9	1149.6	1145.7	1152.6	1152.9
12.5°	1137.2	1138.3	1134.7	1141.3	1142.2
15°	1122.3	1124.2	1121.2	1127.5	1127.3
17.5°	1106.0	1107.2	1104.9	1112.1	1111.8
20°	1085.9	1087.3	1085.7	1093.1	1093.9
22.5°	1063.6	1065.5	1065.3	1073.0	1075.2
25°	1039.9	1040.7	1041.8	1050.6	1052.3
27.5°	1013.7	1015.1	1017.0	1025.0	1026.7
30°	985.1	987.3	989.5	997.7	999.9
32.5°	954.7	956.9	959.7	970.4	971.5
35°	920.6	924.7	928.6	937.9	941.8
37.5°	886.4	891.6	895.2	905.1	908.2
40°	850.3	855.5	861.3	871.8	873.7
42.5°	812.5	818.6	825.5	834.8	838.1
45°	774.5	781.4	787.7	795.4	799.3
47.5°	733.4	740.3	748.0	756.8	759.3
50°	691.0	699.0	707.2	715.5	719.9
52.5°	647.4	657.1	666.4	675.3	679.4
55°	604.4	611.6	622.9	632.0	636.1
57.5°	559.8	565.8	576.0	590.9	593.1
60°	514.3	519.8	530.3	542.4	547.4
62.5°	464.1	471.6	482.6	498.0	502.4
65°	415.4	422.5	437.1	454.5	461.7
67.5°	368.2	370.7	389.4	407.6	419.2
70°	312.5	321.9	343.7	366.0	374.8
72.5°	264.6	274.0	297.9	324.1	335.1
75°	210.3	223.2	255.8	286.4	297.1
77.5°	162.6	176.9	217.2	248.1	260.5
80°	113.6	135.9	179.7	214.4	227.9
82.5°	71.4	98.9	145.8	182.2	194.0
85°	36.4	67.3	115.5	152.7	166.2
87.5°	9.6	43.5	89.9	125.4	139.2
90°	0.3	25.1	68.1	102.3	114.7
92.5°	0.3	14.1	50.7	81.3	94.0
95°	0.3	6.6	35.3	63.9	73.9
97.5°	0.3	2.8	24.3	48.2	58.2
100°	0.3	1.4	15.4	35.0	43.5
102.5°	0.6	0.8	9.6	25.1	32.0
105°	0.6	0.8	5.8	17.1	22.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	1.1	4.7	6.9
115°	0.8	0.8	1.1	3.0	4.4
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°	0.6	0.8	3.3	11.6	15.7
110°	0.8	0.8	1.9	7.2	10.5



(END OF REPORT)