

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: P580164

Luminaire Tested: **HVSL12-2-LD4-3LO-30-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580164  
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: HVSL12-2-LD4-3LO-30-UNV-O-EDD  
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

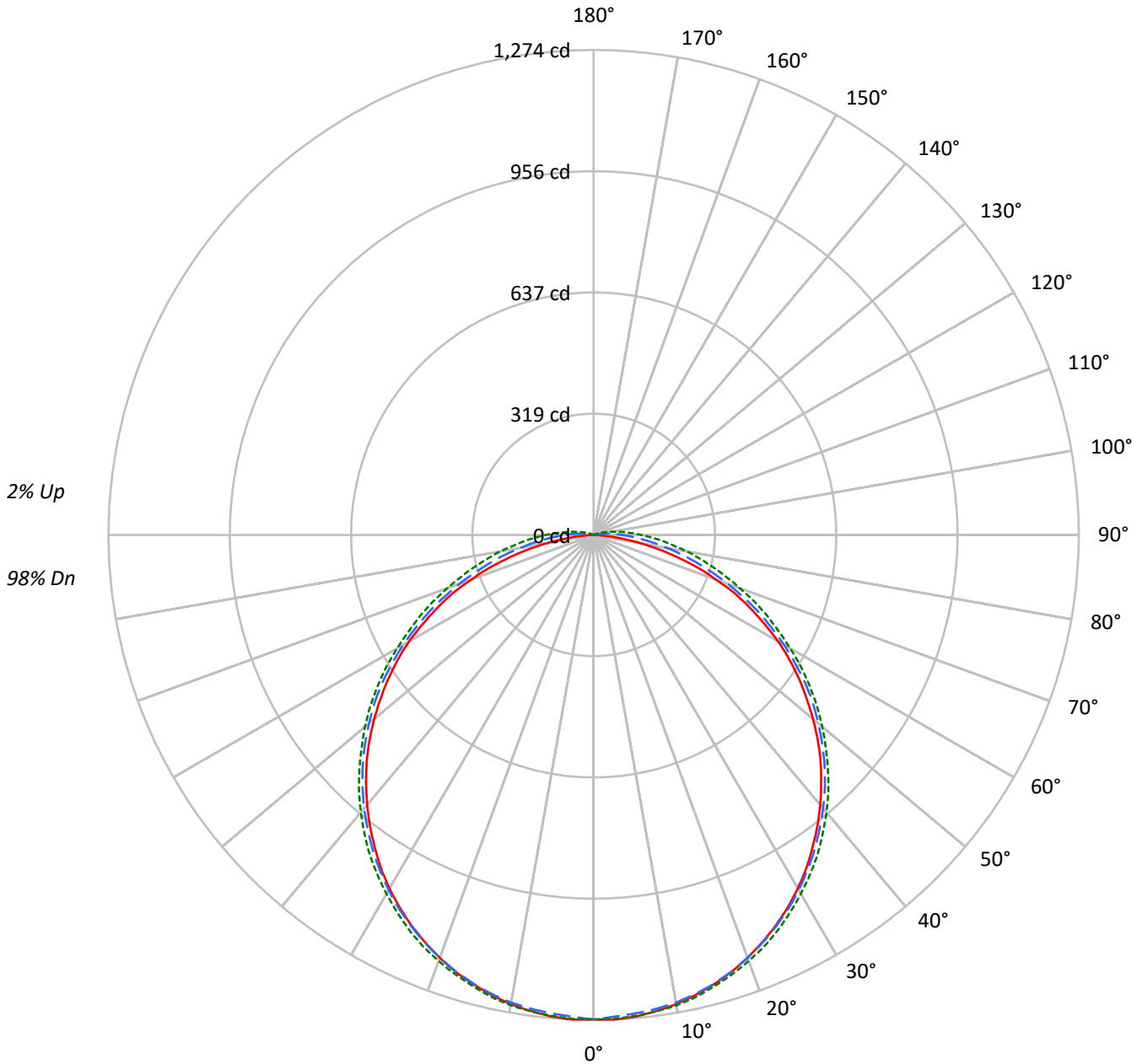
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3848.0 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 35.7  
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°	6850	6850	6850
5°	6812	6714	6751
10°	6741	6610	6663
15°	6658	6493	6545
20°	6571	6359	6430
25°	6471	6222	6312
30°	6358	6074	6171
35°	6221	5909	6032
40°	6078	5736	5862
45°	5923	5546	5676
50°	5729	5324	5474
55°	5517	5079	5248
60°	5265	4756	4976
65°	4884	4393	4714
70°	4356	3962	4403
75°	3630	3488	4146
80°	2601	3027	3953
85°	1252	2569	3845



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.4	3.1
10°-20°	345.5	9.0
20°-30°	524.2	13.6
30°-40°	633.8	16.5
40°-50°	661.4	17.2
50°-60°	604.6	15.7
60°-70°	471.3	12.2
70°-80°	294.8	7.7
80°-90°	133.9	3.5
90°-100°	44.9	1.2
100°-110°	11.3	0.3
110°-120°	1.8	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°	990.1	25.7
0°-40°	1623.9	42.2
0°-60°	2890.0	75.1
0°-90°	3790.0	98.5
90°-120°	57.9	1.5
90°-150°	57.9	1.5
90°-180°	58.0	1.5
0°-180°	3848.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1273	1273	1273	1273	1273	
5°	1270	1268	1262	1268	1268	121
15°	1222	1224	1220	1227	1227	345
25°	1132	1133	1134	1144	1146	522
35°	1002	1007	1011	1021	1025	627
45°	843	851	858	866	870	650
55°	658	666	678	688	692	588
65°	452	460	476	495	502	447
75°	229	243	278	312	323	244
85°	40	73	126	166	181	50
90°	0	27	74	111	125	2
95°	0	7	38	70	80	0
105°	1	1	6	19	25	1
115°	1	1	1	3	5	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°	1272.7	1272.7	1272.7	1272.7	1272.7
2.5°	1274.2	1272.4	1266.7	1272.4	1272.1
5°	1270.0	1267.6	1261.9	1267.9	1267.9
7.5°	1261.6	1260.7	1255.6	1262.5	1262.5
10°	1251.7	1251.4	1247.2	1254.7	1255.0
12.5°	1237.9	1239.1	1235.2	1242.4	1243.3
15°	1221.7	1223.8	1220.5	1227.4	1227.1
17.5°	1204.0	1205.2	1202.8	1210.6	1210.3
20°	1182.1	1183.6	1181.8	1189.9	1190.8
22.5°	1157.8	1159.9	1159.6	1168.0	1170.4
25°	1132.0	1132.9	1134.1	1143.7	1145.5
27.5°	1103.5	1105.0	1107.1	1115.8	1117.6
30°	1072.3	1074.7	1077.1	1086.1	1088.5
32.5°	1039.3	1041.7	1044.7	1056.4	1057.6
35°	1002.1	1006.6	1010.8	1021.0	1025.2
37.5°	964.9	970.6	974.5	985.3	988.6
40°	925.6	931.3	937.6	949.0	951.1
42.5°	884.5	891.1	898.6	908.8	912.4
45°	843.1	850.6	857.5	865.9	870.1
47.5°	798.4	805.9	814.3	823.9	826.6
50°	752.2	760.9	769.9	778.9	783.7
52.5°	704.7	715.2	725.4	735.0	739.5
55°	657.9	665.7	678.0	687.9	692.4
57.5°	609.3	615.9	627.0	643.2	645.6
60°	559.8	565.8	577.2	590.4	595.8
62.5°	505.2	513.3	525.3	542.1	546.9
65°	452.1	459.9	475.8	494.7	502.5
67.5°	400.8	403.5	423.9	443.7	456.3
70°	340.2	350.4	374.1	398.4	408.0
72.5°	288.0	298.2	324.3	352.8	364.8
75°	228.9	243.0	278.4	311.7	323.4
77.5°	177.0	192.6	236.4	270.0	283.5
80°	123.6	147.9	195.6	233.4	248.1
82.5°	77.7	107.7	158.7	198.3	211.2
85°	39.6	73.2	125.7	166.2	180.9
87.5°	10.5	47.4	97.8	136.5	151.5
90°	0.3	27.3	74.1	111.3	124.8
92.5°	0.3	15.3	55.2	88.5	102.3
95°	0.3	7.2	38.4	69.6	80.4
97.5°	0.3	3.0	26.4	52.5	63.3
100°	0.3	1.5	16.8	38.1	47.4
102.5°	0.6	0.9	10.5	27.3	34.8
105°	0.6	0.9	6.3	18.6	24.9



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CATALOG NUMBER: HVSL12-2-LD4-3LO-30-UNV-O-EDD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	0.9	1.2	5.1	7.5
115°	0.9	0.9	1.2	3.3	4.8
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°	0.6	0.9	3.6	12.6	17.1
110°	0.9	0.9	2.1	7.8	11.4



(END OF REPORT)