

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: P580684

Luminaire Tested: **HVSL8-2-LD4-2HI-30-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580684  
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: HVSL8-2-LD4-2HI-30-UNV-O-EDD  
Description: 2 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

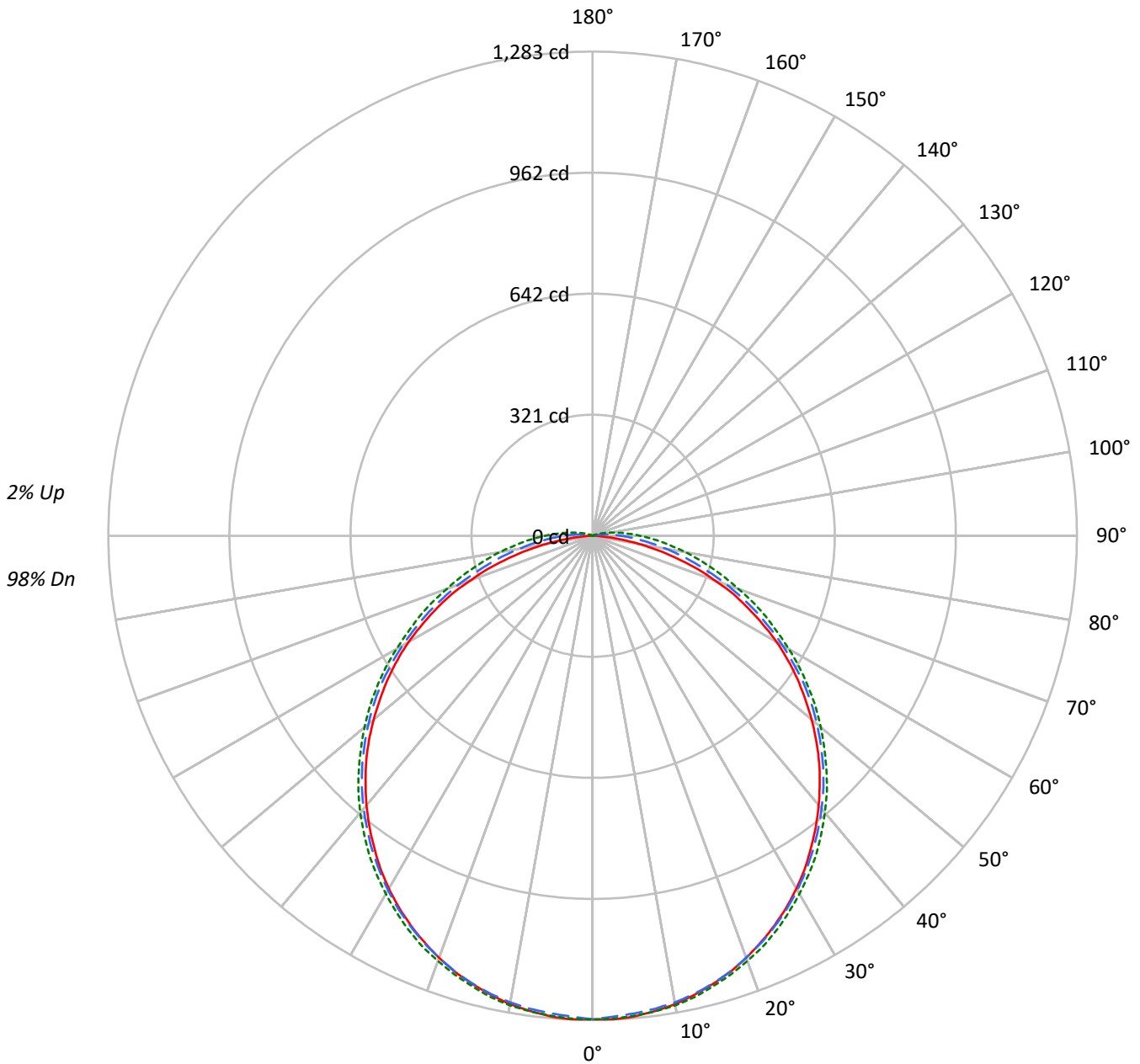
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3874.0 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 2' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 44.4  
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				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°	10344	10344	10344
5°	10286	10087	10123
10°	10180	9882	9920
15°	10055	9659	9677
20°	9923	9414	9440
25°	9771	9162	9199
30°	9601	8898	8926
35°	9394	8608	8656
40°	9178	8304	8341
45°	8945	7976	8000
50°	8651	7600	7633
55°	8331	7187	7230
60°	7952	6662	6759
65°	7377	6077	6291
70°	6578	5396	5748
75°	5484	4651	5253
80°	3927	3917	4803
85°	1893	3174	4372



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.2	3.1
10°-20°	347.8	9.0
20°-30°	527.7	13.6
30°-40°	638.1	16.5
40°-50°	665.8	17.2
50°-60°	608.8	15.7
60°-70°	474.5	12.2
70°-80°	296.8	7.7
80°-90°	134.8	3.5
90°-100°	45.2	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°	996.8	25.7
0°-40°	1634.9	42.2
0°-60°	2909.4	75.1
0°-90°	3815.7	98.5
90°-120°	58.3	1.5
90°-150°	58.3	1.5
90°-180°	58.0	1.5
0°-180°	3874.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1279	1276	1270	1276	1276	121
15°	1230	1232	1229	1236	1235	347
25°	1140	1140	1142	1151	1153	525
35°	1009	1013	1018	1028	1032	631
45°	849	856	863	872	876	654
55°	662	670	683	693	697	592
65°	455	463	479	498	506	450
75°	230	245	280	314	326	246
85°	40	74	127	167	182	50
90°	0	28	75	112	126	2
95°	0	7	39	70	81	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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1281.3	1281.3	1281.3	1281.3	1281.3
2.5°	1282.8	1281.0	1275.2	1281.0	1280.7
5°	1278.6	1276.2	1270.4	1276.5	1276.5
7.5°	1270.1	1269.2	1264.1	1271.0	1271.0
10°	1260.1	1259.8	1255.6	1263.2	1263.5
12.5°	1246.2	1247.5	1243.5	1250.8	1251.7
15°	1229.9	1232.1	1228.7	1235.7	1235.4
17.5°	1212.1	1213.3	1210.9	1218.8	1218.5
20°	1190.1	1191.6	1189.8	1197.9	1198.8
22.5°	1165.6	1167.7	1167.4	1175.9	1178.3
25°	1139.6	1140.5	1141.7	1151.4	1153.2
27.5°	1110.9	1112.4	1114.6	1123.3	1125.1
30°	1079.5	1081.9	1084.4	1093.4	1095.8
32.5°	1046.3	1048.7	1051.7	1063.5	1064.7
35°	1008.8	1013.4	1017.6	1027.9	1032.1
37.5°	971.4	977.1	981.1	991.9	995.2
40°	931.8	937.6	943.9	955.4	957.5
42.5°	890.4	897.1	904.6	914.9	918.5
45°	848.8	856.3	863.3	871.7	875.9
47.5°	803.7	811.3	819.8	829.4	832.1
50°	757.2	766.0	775.1	784.1	788.9
52.5°	709.5	720.1	730.4	740.0	744.5
55°	662.4	670.2	682.6	692.6	697.1
57.5°	613.5	620.1	631.3	647.6	650.0
60°	563.6	569.7	581.1	594.4	599.9
62.5°	508.6	516.8	528.9	545.8	550.6
65°	455.2	463.0	479.0	498.1	505.9
67.5°	403.5	406.3	426.8	446.7	459.4
70°	342.5	352.8	376.7	401.1	410.8
72.5°	290.0	300.2	326.5	355.2	367.3
75°	230.5	244.7	280.3	313.8	325.6
77.5°	178.2	193.9	238.0	271.8	285.4
80°	124.4	148.9	196.9	235.0	249.8
82.5°	78.2	108.4	159.8	199.7	212.6
85°	39.9	73.7	126.6	167.3	182.1
87.5°	10.6	47.7	98.5	137.4	152.5
90°	0.3	27.5	74.6	112.1	125.7
92.5°	0.3	15.4	55.6	89.1	103.0
95°	0.3	7.2	38.7	70.1	80.9
97.5°	0.3	3.0	26.6	52.9	63.7
100°	0.3	1.5	16.9	38.4	47.7
102.5°	0.6	0.9	10.6	27.5	35.0
105°	0.6	0.9	6.3	18.7	25.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	0.9	1.2	5.1	7.6
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	12.7	17.2
110°	0.9	0.9	2.1	7.9	11.5



(END OF REPORT)