

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: P580350

Luminaire Tested: **HVSL2-3-LD4-HI-35-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580350  
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-35-UNV-O-EDD  
Description: 3 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

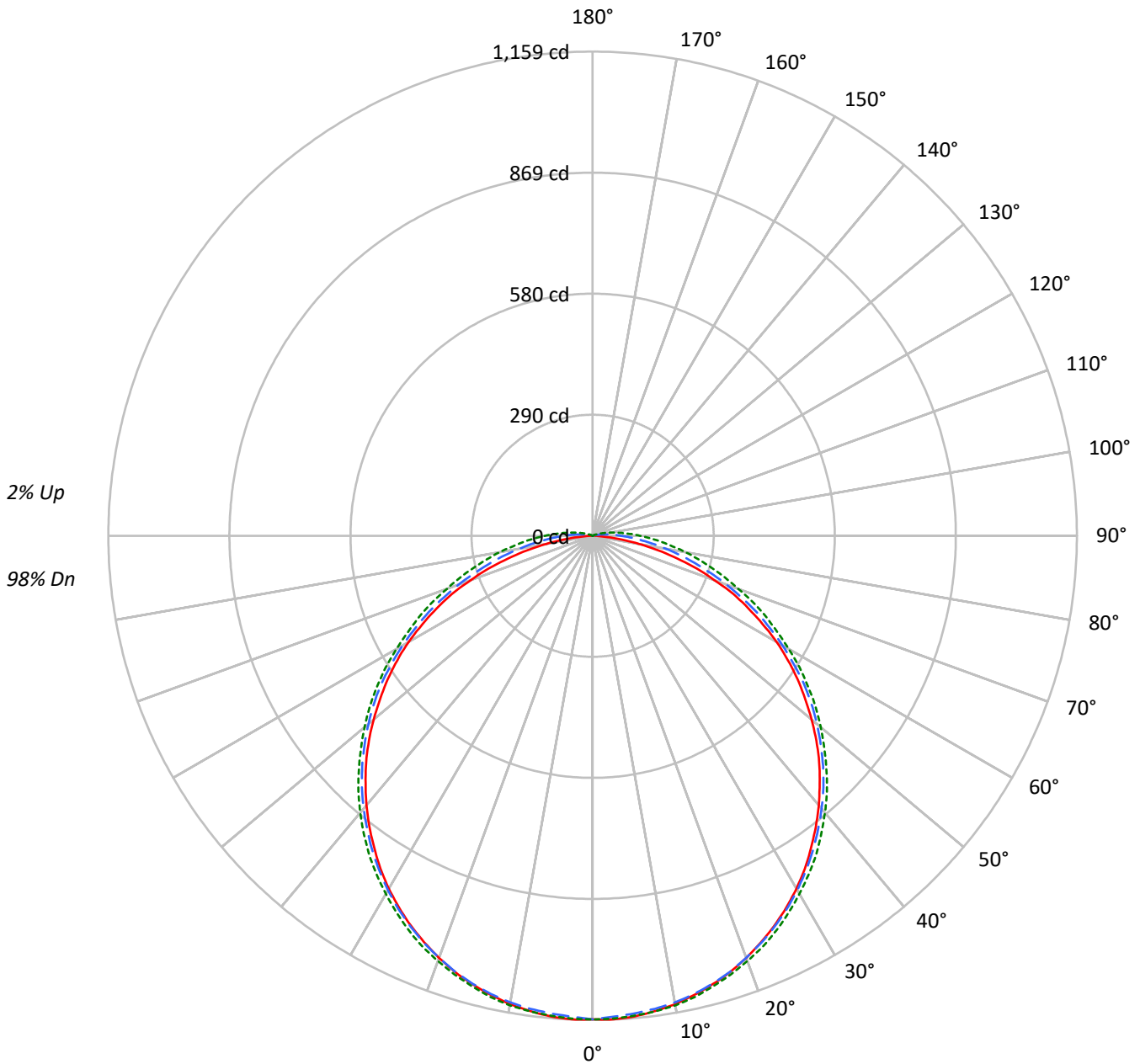
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3500.0 lumens  
Efficiency: N/A  
Efficacy: 108.4 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 (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

TEST NUMBER: P580350  
CATALOG NUMBER: HVSL2-3-LD4-HI-35-UNV-O-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P580350

CATALOG NUMBER: HVSL2-3-LD4-HI-35-UNV-O-EDD

**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°	24921	24921	24921
5°	24841	23283	22915
10°	24646	21913	21212
15°	24402	20617	19617
20°	24144	19364	18191
25°	23839	18175	16877
30°	23491	17018	15601
35°	23055	15868	14413
40°	22606	14735	13218
45°	22116	13595	12046
50°	21488	12410	10891
55°	20808	11203	9734
60°	19999	9858	8541
65°	18716	8476	7404
70°	16901	7020	6232
75°	14343	5563	5170
80°	10596	4214	4194
85°	5438	2962	3270



TEST NUMBER: P580350

CATALOG NUMBER: HVSL2-3-LD4-HI-35-UNV-O-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.5	3.1
10°-20°	314.2	9.0
20°-30°	476.8	13.6
30°-40°	576.5	16.5
40°-50°	601.5	17.2
50°-60°	550.0	15.7
60°-70°	428.7	12.2
70°-80°	268.2	7.7
80°-90°	121.8	3.5
90°-100°	40.8	1.2
100°-110°	10.2	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°	900.5	25.7
0°-40°	1477.0	42.2
0°-60°	2628.5	75.1
0°-90°	3447.3	98.5
90°-120°	52.7	1.5
90°-150°	52.7	1.5
90°-180°	53.0	1.5
0°-180°	3500.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1158	1158	1158	1158	1158	
5°	1155	1153	1148	1153	1153	110
15°	1111	1113	1110	1116	1116	314
25°	1030	1030	1032	1040	1042	474
35°	911	916	919	929	932	570
45°	767	774	780	788	791	591
55°	598	606	617	626	630	535
65°	411	418	433	450	457	407
75°	208	221	253	284	294	222
85°	36	67	114	151	165	46
90°	0	25	67	101	114	1
95°	0	6	35	63	73	0
105°	0	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	0



TEST NUMBER: P580350

CATALOG NUMBER: HVSL2-3-LD4-HI-35-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1157.6	1157.6	1157.6	1157.6	1157.6
2.5°	1159.0	1157.3	1152.1	1157.3	1157.0
5°	1155.1	1152.9	1147.8	1153.2	1153.2
7.5°	1147.5	1146.7	1142.0	1148.3	1148.3
10°	1138.5	1138.2	1134.4	1141.2	1141.5
12.5°	1125.9	1127.0	1123.5	1130.0	1130.8
15°	1111.2	1113.1	1110.1	1116.4	1116.1
17.5°	1095.1	1096.2	1094.0	1101.1	1100.8
20°	1075.2	1076.5	1074.9	1082.3	1083.1
22.5°	1053.1	1055.0	1054.7	1062.4	1064.5
25°	1029.6	1030.4	1031.5	1040.2	1041.9
27.5°	1003.7	1005.0	1007.0	1014.9	1016.5
30°	975.3	977.5	979.7	987.9	990.0
32.5°	945.3	947.5	950.2	960.8	961.9
35°	911.4	915.5	919.4	928.6	932.5
37.5°	877.6	882.8	886.3	896.2	899.2
40°	841.9	847.0	852.8	863.1	865.1
42.5°	804.5	810.5	817.3	826.6	829.9
45°	766.8	773.6	779.9	787.6	791.4
47.5°	726.2	733.0	740.6	749.3	751.8
50°	684.1	692.0	700.2	708.4	712.8
52.5°	641.0	650.6	659.8	668.6	672.7
55°	598.4	605.5	616.7	625.7	629.8
57.5°	554.2	560.2	570.3	585.1	587.3
60°	509.2	514.7	525.0	537.0	542.0
62.5°	459.5	466.9	477.8	493.1	497.5
65°	411.2	418.3	432.8	450.0	457.1
67.5°	364.6	367.0	385.6	403.6	415.1
70°	309.5	318.7	340.3	362.4	371.1
72.5°	262.0	271.3	295.0	320.9	331.8
75°	208.2	221.0	253.2	283.5	294.2
77.5°	161.0	175.2	215.0	245.6	257.9
80°	112.4	134.5	177.9	212.3	225.7
82.5°	70.7	98.0	144.4	180.4	192.1
85°	36.0	66.6	114.3	151.2	164.6
87.5°	9.6	43.1	89.0	124.2	137.8
90°	0.3	24.8	67.4	101.2	113.5
92.5°	0.3	13.9	50.2	80.5	93.1
95°	0.3	6.5	34.9	63.3	73.1
97.5°	0.3	2.7	24.0	47.8	57.6
100°	0.3	1.4	15.3	34.7	43.1
102.5°	0.5	0.8	9.6	24.8	31.7
105°	0.5	0.8	5.7	16.9	22.6



TEST NUMBER: P580350

CATALOG NUMBER: HVSL2-3-LD4-HI-35-UNV-O-EDD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	1.1	4.6	6.8
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°	0.5	0.8	3.3	11.5	15.6
110°	0.8	0.8	1.9	7.1	10.4



(END OF REPORT)