

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: P580349

Luminaire Tested: **HVSL2-3-LD4-HI-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580349  
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-90  
Description: 3 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS  
Light Source: -  
Ballast/Driver: -

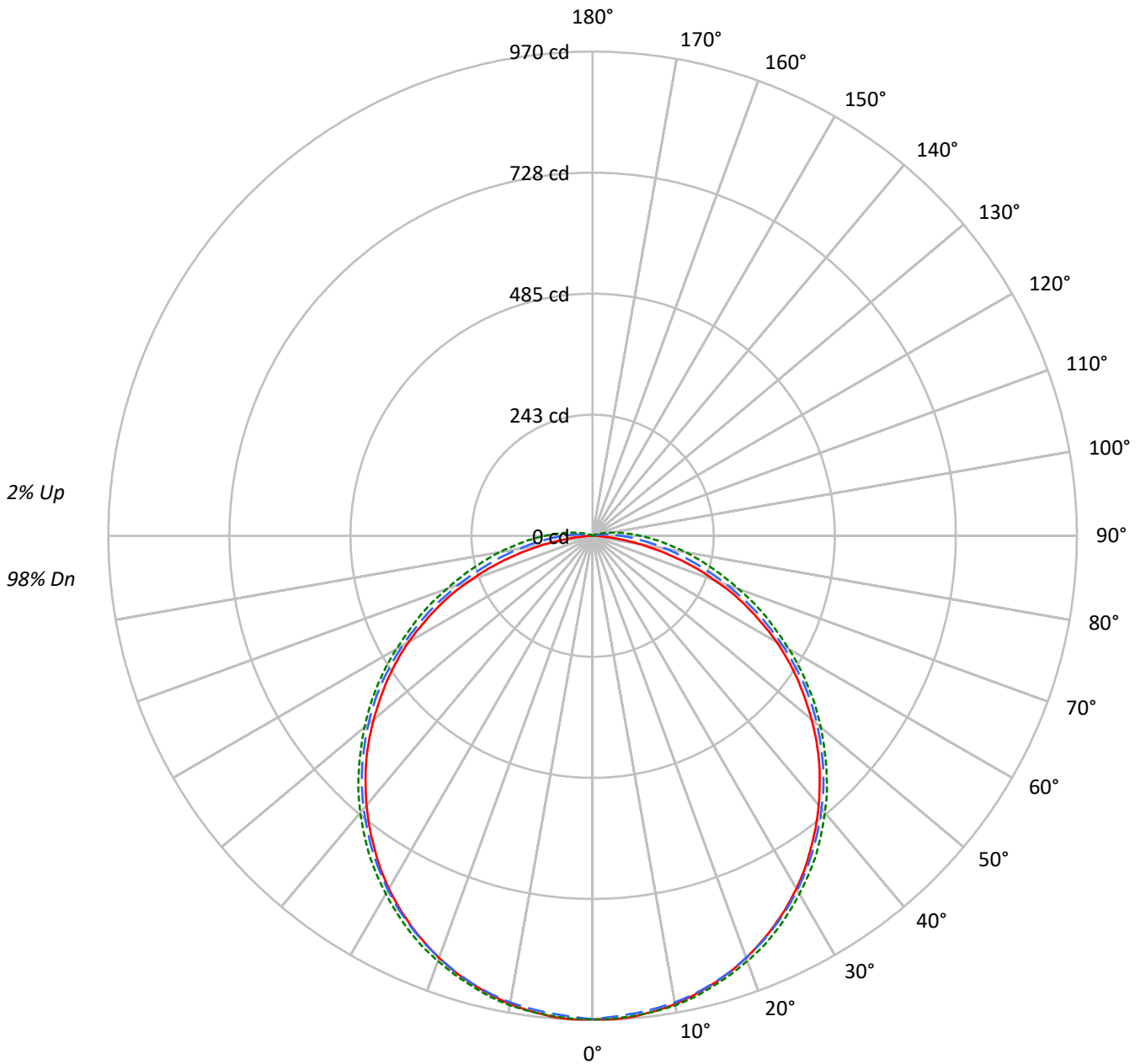
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2929.0 lumens  
Efficiency: N/A  
Efficacy: 90.7 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: P580349

CATALOG NUMBER: HVSL2-3-LD4-HI-35-UNV-O-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P580349

CATALOG NUMBER: HVSL2-3-LD4-HI-35-UNV-O-EDD-90

**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°	20854	20854	20854
5°	20789	19484	19178
10°	20626	18338	17752
15°	20421	17254	16417
20°	20205	16204	15223
25°	19949	15209	14123
30°	19659	14241	13056
35°	19294	13279	12060
40°	18916	12330	11061
45°	18508	11378	10081
50°	17983	10386	9114
55°	17414	9375	8147
60°	16735	8250	7146
65°	15666	7094	6195
70°	14143	5875	5216
75°	12001	4655	4327
80°	8871	3527	3510
85°	4547	2480	2736



TEST NUMBER: P580349

CATALOG NUMBER: HVSL2-3-LD4-HI-35-UNV-O-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.7	3.1
10°-20°	263.0	9.0
20°-30°	399.0	13.6
30°-40°	482.5	16.5
40°-50°	503.4	17.2
50°-60°	460.2	15.7
60°-70°	358.8	12.3
70°-80°	224.5	7.7
80°-90°	101.9	3.5
90°-100°	34.2	1.2
100°-110°	8.6	0.3
110°-120°	1.4	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°	753.6	25.7
0°-40°	1236.1	42.2
0°-60°	2199.7	75.1
0°-90°	2884.9	98.5
90°-120°	44.1	1.5
90°-150°	44.1	1.5
90°-180°	44.0	1.5
0°-180°	2929.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	969	969	969	969	969	
5°	967	965	960	965	965	92
15°	930	932	929	934	934	262
25°	862	862	863	870	872	397
35°	763	766	769	777	780	477
45°	642	647	653	659	662	494
55°	501	507	516	524	527	447
65°	344	350	362	377	382	341
75°	174	185	212	237	246	186
85°	30	56	96	126	138	38
90°	0	21	56	85	95	1
95°	0	6	29	53	61	0
105°	0	1	5	14	19	1
115°	1	1	1	2	4	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



TEST NUMBER: P580349

CATALOG NUMBER: HVSL2-3-LD4-HI-35-UNV-O-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	968.7	968.7	968.7	968.7	968.7
2.5°	969.9	968.5	964.2	968.5	968.3
5°	966.7	964.9	960.5	965.1	965.1
7.5°	960.3	959.6	955.7	961.0	961.0
10°	952.8	952.5	949.3	955.0	955.3
12.5°	942.2	943.2	940.2	945.7	946.4
15°	929.9	931.5	929.0	934.3	934.0
17.5°	916.4	917.4	915.5	921.5	921.2
20°	899.8	900.9	899.5	905.7	906.4
22.5°	881.3	882.9	882.6	889.0	890.9
25°	861.6	862.3	863.2	870.5	871.9
27.5°	839.9	841.1	842.7	849.3	850.7
30°	816.2	818.0	819.8	826.7	828.5
32.5°	791.1	792.9	795.2	804.1	805.0
35°	762.7	766.2	769.4	777.1	780.3
37.5°	734.4	738.8	741.7	750.0	752.5
40°	704.5	708.9	713.6	722.3	723.9
42.5°	673.2	678.3	684.0	691.7	694.5
45°	641.7	647.4	652.7	659.1	662.3
47.5°	607.7	613.4	619.8	627.1	629.2
50°	572.5	579.1	586.0	592.8	596.5
52.5°	536.4	544.4	552.2	559.5	562.9
55°	500.8	506.7	516.1	523.6	527.1
57.5°	463.8	468.8	477.3	489.6	491.4
60°	426.1	430.7	439.4	449.4	453.5
62.5°	384.6	390.7	399.9	412.7	416.3
65°	344.2	350.1	362.2	376.6	382.5
67.5°	305.1	307.2	322.7	337.8	347.3
70°	259.0	266.7	284.8	303.3	310.6
72.5°	219.2	227.0	246.9	268.6	277.7
75°	174.2	185.0	211.9	237.3	246.2
77.5°	134.7	146.6	180.0	205.5	215.8
80°	94.1	112.6	148.9	177.7	188.9
82.5°	59.1	82.0	120.8	151.0	160.8
85°	30.1	55.7	95.7	126.5	137.7
87.5°	8.0	36.1	74.4	103.9	115.3
90°	0.2	20.8	56.4	84.7	95.0
92.5°	0.2	11.6	42.0	67.4	77.9
95°	0.2	5.5	29.2	53.0	61.2
97.5°	0.2	2.3	20.1	40.0	48.2
100°	0.2	1.1	12.8	29.0	36.1
102.5°	0.5	0.7	8.0	20.8	26.5
105°	0.5	0.7	4.8	14.2	19.0



TEST NUMBER: P580349

CATALOG NUMBER: HVSL2-3-LD4-HI-35-UNV-O-EDD-90

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	0.7	0.9	3.9	5.7
115°	0.7	0.7	0.9	2.5	3.7
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	0.7	2.7	9.6	13.0
110°	0.7	0.7	1.6	5.9	8.7



(END OF REPORT)