

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: P580150

Luminaire Tested: **HVSL12-2-LD4-2STD-35-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580150  
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-LD4-2STD-35-UNV-O-EDD  
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

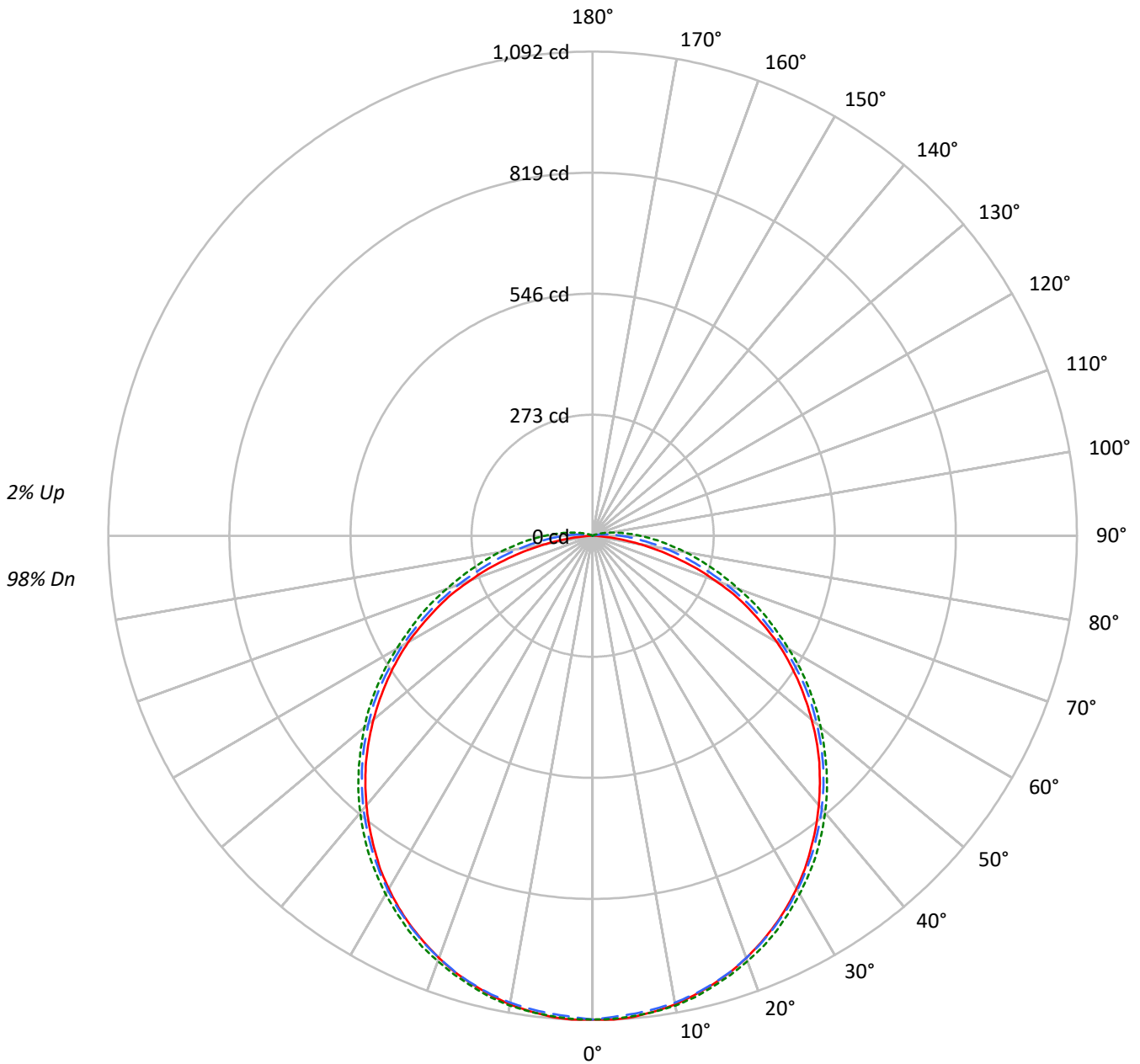
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3299.0 lumens  
Efficiency: N/A  
Efficacy: 95.3 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): 34.6  
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: P580150

CATALOG NUMBER: HVSL12-2-LD4-2STD-35-UNV-O-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P580150

CATALOG NUMBER: HVSL12-2-LD4-2STD-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°	5872	5872	5872
5°	5840	5756	5788
10°	5780	5666	5712
15°	5708	5567	5611
20°	5633	5452	5513
25°	5548	5334	5411
30°	5451	5207	5290
35°	5333	5066	5171
40°	5210	4918	5026
45°	5078	4754	4866
50°	4911	4564	4693
55°	4730	4355	4500
60°	4515	4078	4266
65°	4188	3766	4041
70°	3735	3396	3775
75°	3113	2990	3555
80°	2231	2595	3389
85°	1075	2204	3296



TEST NUMBER: P580150

CATALOG NUMBER: HVSL12-2-LD4-2STD-35-UNV-O-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.3	3.1
10°-20°	296.2	9.0
20°-30°	449.4	13.6
30°-40°	543.4	16.5
40°-50°	567.0	17.2
50°-60°	518.4	15.7
60°-70°	404.1	12.2
70°-80°	252.8	7.7
80°-90°	114.8	3.5
90°-100°	38.5	1.2
100°-110°	9.7	0.3
110°-120°	1.5	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°	848.8	25.7
0°-40°	1392.2	42.2
0°-60°	2477.6	75.1
0°-90°	3249.3	98.5
90°-120°	49.7	1.5
90°-150°	49.7	1.5
90°-180°	50.0	1.5
0°-180°	3299.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1091	1091	1091	1091	1091	
5°	1089	1087	1082	1087	1087	103
15°	1047	1049	1046	1052	1052	296
25°	970	971	972	980	982	447
35°	859	863	867	875	879	538
45°	723	729	735	742	746	557
55°	564	571	581	590	594	504
65°	388	394	408	424	431	384
75°	196	208	239	267	277	209
85°	34	63	108	142	155	43
90°	0	23	64	95	107	1
95°	0	6	33	60	69	0
105°	0	1	5	16	21	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	



TEST NUMBER: P580150

CATALOG NUMBER: HVSL12-2-LD4-2STD-35-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1091.1	1091.1	1091.1	1091.1	1091.1
2.5°	1092.4	1090.9	1086.0	1090.9	1090.6
5°	1088.8	1086.7	1081.9	1087.0	1087.0
7.5°	1081.6	1080.8	1076.4	1082.4	1082.4
10°	1073.1	1072.8	1069.2	1075.7	1075.9
12.5°	1061.3	1062.3	1059.0	1065.1	1065.9
15°	1047.4	1049.2	1046.4	1052.3	1052.0
17.5°	1032.2	1033.2	1031.2	1037.9	1037.6
20°	1013.4	1014.7	1013.2	1020.1	1020.9
22.5°	992.6	994.4	994.1	1001.3	1003.4
25°	970.5	971.2	972.3	980.5	982.1
27.5°	946.0	947.3	949.1	956.6	958.1
30°	919.3	921.3	923.4	931.1	933.2
32.5°	891.0	893.1	895.6	905.7	906.7
35°	859.1	863.0	866.6	875.3	878.9
37.5°	827.2	832.1	835.4	844.7	847.5
40°	793.5	798.4	803.8	813.6	815.4
42.5°	758.3	763.9	770.4	779.1	782.2
45°	722.8	729.2	735.1	742.3	745.9
47.5°	684.5	690.9	698.1	706.3	708.6
50°	644.8	652.3	660.0	667.7	671.8
52.5°	604.2	613.2	621.9	630.2	634.0
55°	564.1	570.8	581.3	589.8	593.7
57.5°	522.4	528.1	537.6	551.5	553.5
60°	480.0	485.1	494.9	506.2	510.8
62.5°	433.2	440.1	450.4	464.8	468.9
65°	387.6	394.3	407.9	424.1	430.8
67.5°	343.6	346.0	363.4	380.4	391.2
70°	291.7	300.4	320.7	341.6	349.8
72.5°	246.9	255.7	278.1	302.5	312.8
75°	196.3	208.3	238.7	267.2	277.3
77.5°	151.8	165.1	202.7	231.5	243.1
80°	106.0	126.8	167.7	200.1	212.7
82.5°	66.6	92.3	136.1	170.0	181.1
85°	34.0	62.8	107.8	142.5	155.1
87.5°	9.0	40.6	83.9	117.0	129.9
90°	0.3	23.4	63.5	95.4	107.0
92.5°	0.3	13.1	47.3	75.9	87.7
95°	0.3	6.2	32.9	59.7	68.9
97.5°	0.3	2.6	22.6	45.0	54.3
100°	0.3	1.3	14.4	32.7	40.6
102.5°	0.5	0.8	9.0	23.4	29.8
105°	0.5	0.8	5.4	15.9	21.3



TEST NUMBER: P580150

CATALOG NUMBER: HVSL12-2-LD4-2STD-35-UNV-O-EDD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	1.0	4.4	6.4
115°	0.8	0.8	1.0	2.8	4.1
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	3.1	10.8	14.7
110°	0.8	0.8	1.8	6.7	9.8



(END OF REPORT)