

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: P580173

Luminaire Tested: **HVSL12-2-LD4-3STD-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580173
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-LD4-3STD-35-UNV-O-EDD-90
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

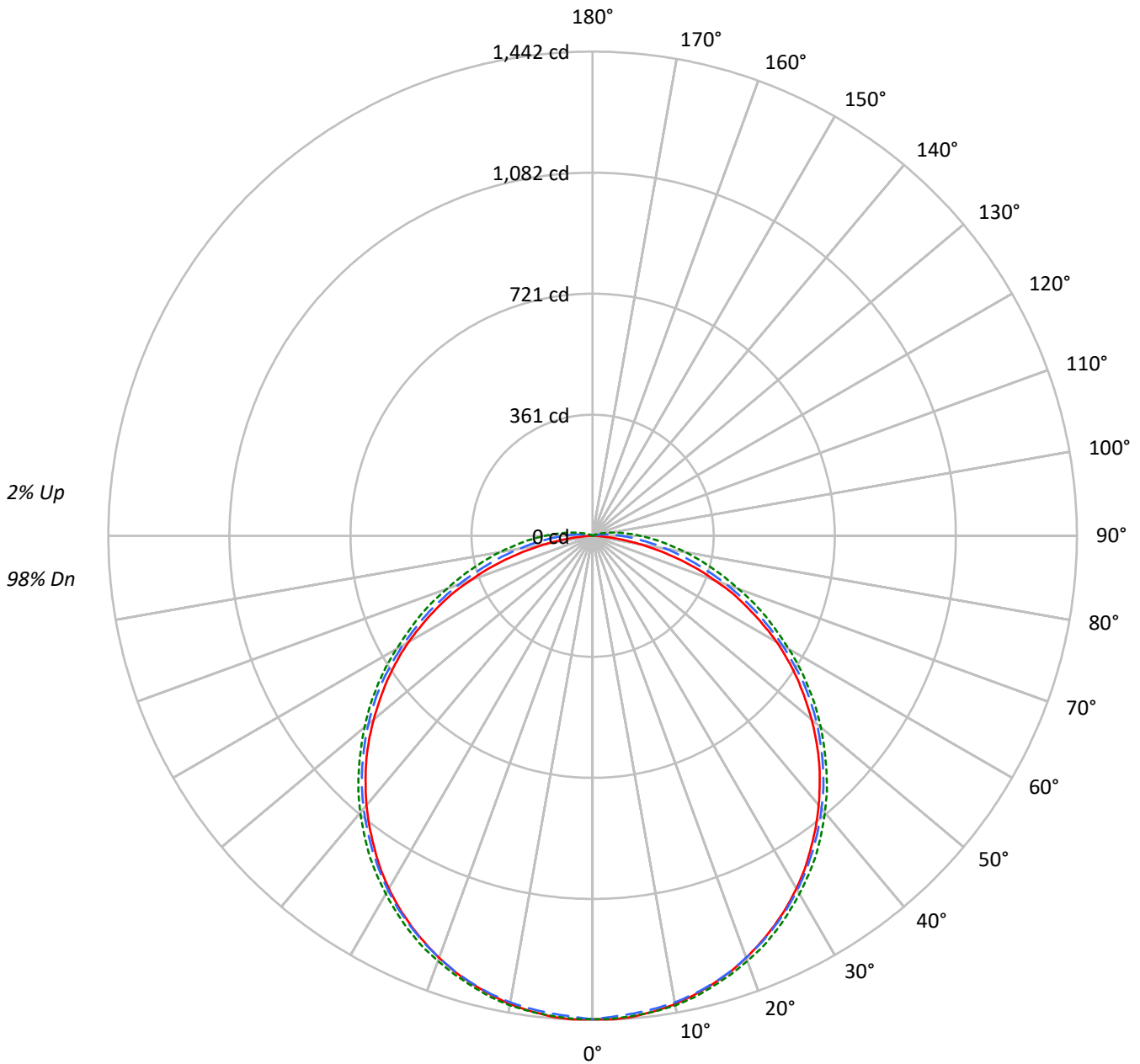
Lumens per Lamp: N/A
Luminaire Lumens: 4354.0 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 50.6
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: P580173

CATALOG NUMBER: HVSL12-2-LD4-3STD-35-UNV-O-EDD-90

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°	7750	7750	7750
5°	7707	7596	7639
10°	7628	7479	7539
15°	7534	7347	7405
20°	7435	7196	7276
25°	7321	7040	7142
30°	7194	6872	6982
35°	7038	6686	6825
40°	6877	6490	6633
45°	6702	6275	6423
50°	6482	6024	6194
55°	6243	5747	5938
60°	5959	5382	5631
65°	5527	4971	5334
70°	4929	4483	4983
75°	4108	3946	4692
80°	2944	3425	4472
85°	1417	2907	4351



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	3.1
10°-20°	390.9	9.0
20°-30°	593.1	13.6
30°-40°	717.2	16.5
40°-50°	748.3	17.2
50°-60°	684.2	15.7
60°-70°	533.3	12.2
70°-80°	333.6	7.7
80°-90°	151.5	3.5
90°-100°	50.8	1.2
100°-110°	12.7	0.3
110°-120°	2.0	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°	1120.3	25.7
0°-40°	1837.4	42.2
0°-60°	3269.9	75.1
0°-90°	4288.4	98.5
90°-120°	65.5	1.5
90°-150°	65.5	1.5
90°-180°	66.0	1.5
0°-180°	4354.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1440	1440	1440	1440	1440	
5°	1437	1434	1428	1435	1435	136
15°	1382	1385	1381	1389	1388	390
25°	1281	1282	1283	1294	1296	590
35°	1134	1139	1144	1155	1160	710
45°	954	962	970	980	984	735
55°	744	753	767	778	784	665
65°	512	520	538	560	569	506
75°	259	275	315	353	366	276
85°	45	83	142	188	205	57
90°	0	31	84	126	141	2
95°	0	8	44	79	91	0
105°	1	1	7	21	28	1
115°	1	1	1	4	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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CATALOG NUMBER: HVSL12-2-LD4-3STD-35-UNV-O-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1440.0	1440.0	1440.0	1440.0	1440.0
2.5°	1441.7	1439.7	1433.3	1439.7	1439.4
5°	1437.0	1434.3	1427.8	1434.6	1434.6
7.5°	1427.5	1426.5	1420.7	1428.5	1428.5
10°	1416.3	1415.9	1411.2	1419.7	1420.0
12.5°	1400.7	1402.0	1397.6	1405.8	1406.8
15°	1382.3	1384.7	1381.0	1388.8	1388.4
17.5°	1362.3	1363.7	1360.9	1369.8	1369.4
20°	1337.5	1339.2	1337.2	1346.3	1347.4
22.5°	1310.0	1312.4	1312.1	1321.6	1324.3
25°	1280.8	1281.8	1283.2	1294.1	1296.1
27.5°	1248.6	1250.3	1252.7	1262.5	1264.5
30°	1213.3	1216.0	1218.7	1228.9	1231.6
32.5°	1175.9	1178.6	1182.0	1195.3	1196.6
35°	1133.8	1138.9	1143.7	1155.2	1160.0
37.5°	1091.7	1098.2	1102.6	1114.8	1118.6
40°	1047.3	1053.7	1060.8	1073.7	1076.1
42.5°	1000.8	1008.2	1016.7	1028.3	1032.3
45°	953.9	962.4	970.2	979.7	984.5
47.5°	903.3	911.8	921.3	932.2	935.2
50°	851.1	860.9	871.1	881.3	886.7
52.5°	797.4	809.3	820.8	831.7	836.8
55°	744.5	753.3	767.2	778.4	783.5
57.5°	689.5	696.9	709.5	727.8	730.5
60°	633.5	640.2	653.1	668.1	674.2
62.5°	571.7	580.8	594.4	613.4	618.9
65°	511.6	520.4	538.4	559.8	568.6
67.5°	453.5	456.6	479.7	502.1	516.3
70°	385.0	396.5	423.3	450.8	461.7
72.5°	325.9	337.4	367.0	399.2	412.8
75°	259.0	275.0	315.0	352.7	366.0
77.5°	200.3	217.9	267.5	305.5	320.8
80°	139.9	167.4	221.3	264.1	280.7
82.5°	87.9	121.9	179.6	224.4	239.0
85°	44.8	82.8	142.2	188.1	204.7
87.5°	11.9	53.6	110.7	154.5	171.4
90°	0.3	30.9	83.8	125.9	141.2
92.5°	0.3	17.3	62.5	100.1	115.8
95°	0.3	8.1	43.5	78.8	91.0
97.5°	0.3	3.4	29.9	59.4	71.6
100°	0.3	1.7	19.0	43.1	53.6
102.5°	0.7	1.0	11.9	30.9	39.4
105°	0.7	1.0	7.1	21.0	28.2



TEST NUMBER: P580173

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	1.0	1.4	5.8	8.5
115°	1.0	1.0	1.4	3.7	5.4
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°	0.7	1.0	4.1	14.3	19.3
110°	1.0	1.0	2.4	8.8	12.9



(END OF REPORT)