

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: P580177

Luminaire Tested: **HVSL12-2-LD4-3STD-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580177
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-50-UNV-O-EDD-90
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

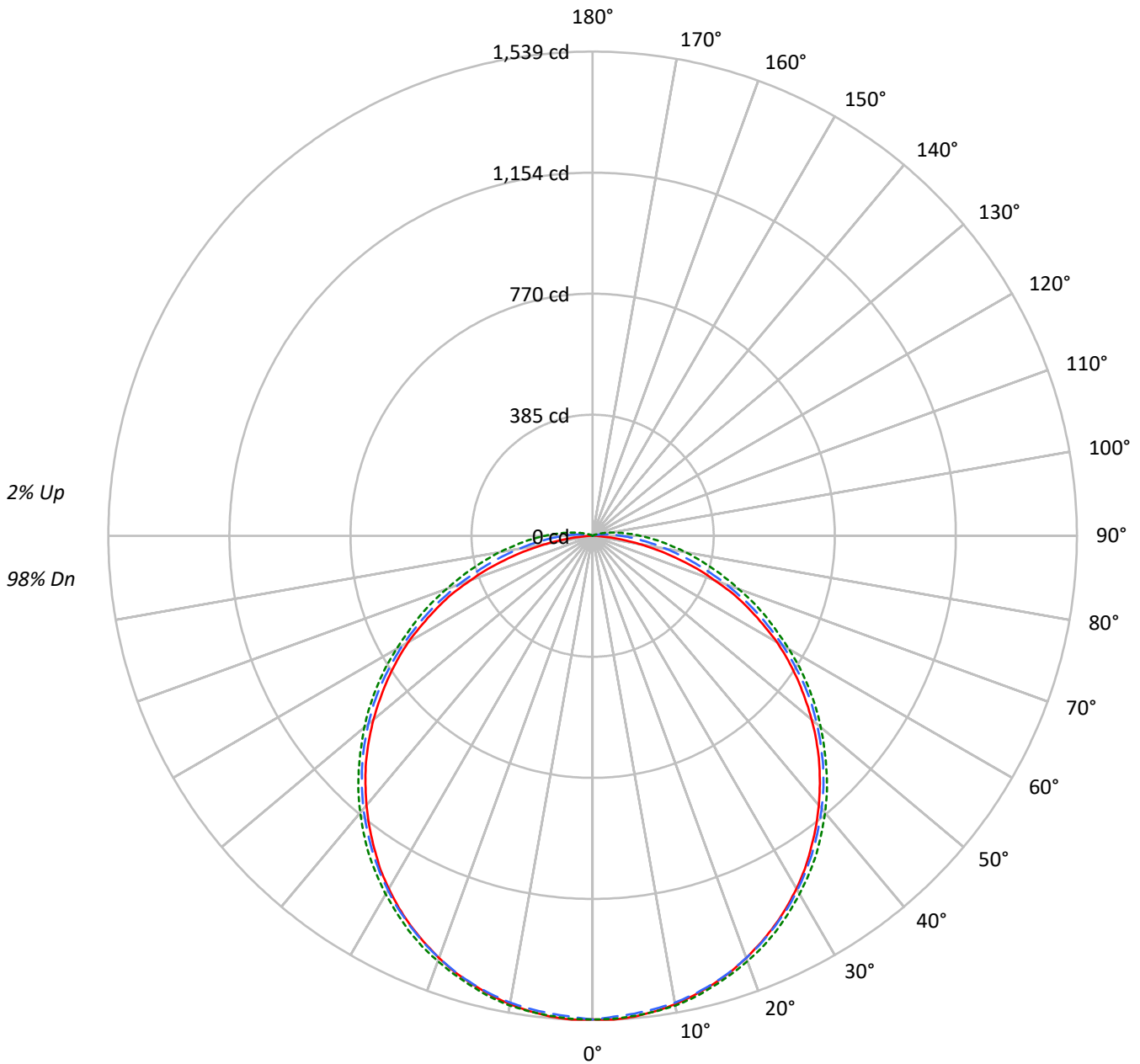
Lumens per Lamp: N/A
Luminaire Lumens: 4649.0 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

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

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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°	8275	8275	8275
5°	8229	8111	8157
10°	8144	7986	8049
15°	8044	7844	7907
20°	7938	7683	7769
25°	7817	7516	7625
30°	7681	7338	7455
35°	7516	7140	7287
40°	7343	6930	7082
45°	7156	6700	6858
50°	6921	6432	6614
55°	6665	6137	6340
60°	6362	5747	6013
65°	5901	5308	5695
70°	5262	4787	5321
75°	4387	4214	5008
80°	3142	3657	4776
85°	1512	3105	4646



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	3.1
10°-20°	417.4	9.0
20°-30°	633.3	13.6
30°-40°	765.8	16.5
40°-50°	799.0	17.2
50°-60°	730.5	15.7
60°-70°	569.5	12.2
70°-80°	356.2	7.7
80°-90°	161.8	3.5
90°-100°	54.2	1.2
100°-110°	13.6	0.3
110°-120°	2.1	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°	1196.2	25.7
0°-40°	1961.9	42.2
0°-60°	3491.5	75.1
0°-90°	4579.0	98.5
90°-120°	70.0	1.5
90°-150°	70.0	1.5
90°-180°	70.0	1.5
0°-180°	4649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1538	1538	1538	1538	1538	
5°	1534	1531	1525	1532	1532	146
15°	1476	1478	1474	1483	1482	417
25°	1368	1369	1370	1382	1384	630
35°	1211	1216	1221	1234	1239	758
45°	1018	1028	1036	1046	1051	785
55°	795	804	819	831	837	710
65°	546	556	575	598	607	540
75°	277	294	336	377	391	295
85°	48	88	152	201	219	61
90°	0	33	90	134	151	2
95°	0	9	46	84	97	0
105°	1	1	8	22	30	1
115°	1	1	1	4	6	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°	1537.6	1537.6	1537.6	1537.6	1537.6
2.5°	1539.4	1537.2	1530.4	1537.2	1536.9
5°	1534.3	1531.4	1524.6	1531.8	1531.8
7.5°	1524.2	1523.1	1516.9	1525.3	1525.3
10°	1512.2	1511.9	1506.8	1515.9	1516.2
12.5°	1495.6	1497.0	1492.3	1501.0	1502.1
15°	1476.0	1478.5	1474.5	1482.9	1482.5
17.5°	1454.6	1456.1	1453.2	1462.6	1462.2
20°	1428.1	1430.0	1427.8	1437.6	1438.7
22.5°	1398.8	1401.3	1401.0	1411.1	1414.0
25°	1367.6	1368.7	1370.1	1381.7	1383.9
27.5°	1333.2	1335.0	1337.5	1348.0	1350.2
30°	1295.5	1298.4	1301.3	1312.2	1315.1
32.5°	1255.6	1258.5	1262.1	1276.3	1277.7
35°	1210.7	1216.1	1221.2	1233.5	1238.6
37.5°	1165.7	1172.6	1177.3	1190.4	1194.3
40°	1118.2	1125.1	1132.7	1146.5	1149.0
42.5°	1068.6	1076.5	1085.6	1097.9	1102.3
45°	1018.5	1027.6	1035.9	1046.1	1051.2
47.5°	964.5	973.6	983.8	995.3	998.6
50°	908.7	919.2	930.1	941.0	946.8
52.5°	851.4	864.1	876.5	888.1	893.5
55°	794.9	804.3	819.2	831.1	836.6
57.5°	736.2	744.2	757.6	777.1	780.0
60°	676.4	683.6	697.4	713.3	719.9
62.5°	610.4	620.2	634.7	655.0	660.8
65°	546.2	555.7	574.9	597.7	607.1
67.5°	484.3	487.5	512.2	536.1	551.3
70°	411.0	423.4	452.0	481.4	493.0
72.5°	348.0	360.3	391.8	426.3	440.8
75°	276.6	293.6	336.4	376.6	390.7
77.5°	213.9	232.7	285.6	326.2	342.5
80°	149.3	178.7	236.3	282.0	299.8
82.5°	93.9	130.1	191.7	239.6	255.2
85°	47.8	88.4	151.9	200.8	218.6
87.5°	12.7	57.3	118.2	164.9	183.0
90°	0.4	33.0	89.5	134.5	150.8
92.5°	0.4	18.5	66.7	106.9	123.6
95°	0.4	8.7	46.4	84.1	97.1
97.5°	0.4	3.6	31.9	63.4	76.5
100°	0.4	1.8	20.3	46.0	57.3
102.5°	0.7	1.1	12.7	33.0	42.0
105°	0.7	1.1	7.6	22.5	30.1



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CATALOG NUMBER: HVSL12-2-LD4-3STD-50-UNV-O-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	1.1	1.4	6.2	9.1
115°	1.1	1.1	1.4	4.0	5.8
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°	0.7	1.1	4.3	15.2	20.7
110°	1.1	1.1	2.5	9.4	13.8



(END OF REPORT)