

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: P580570

Luminaire Tested: **HVSL4-4-LD4-1HI-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580570
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: HVSL4-4-LD4-1HI-50-UNV-O-EDD
Description: 4 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

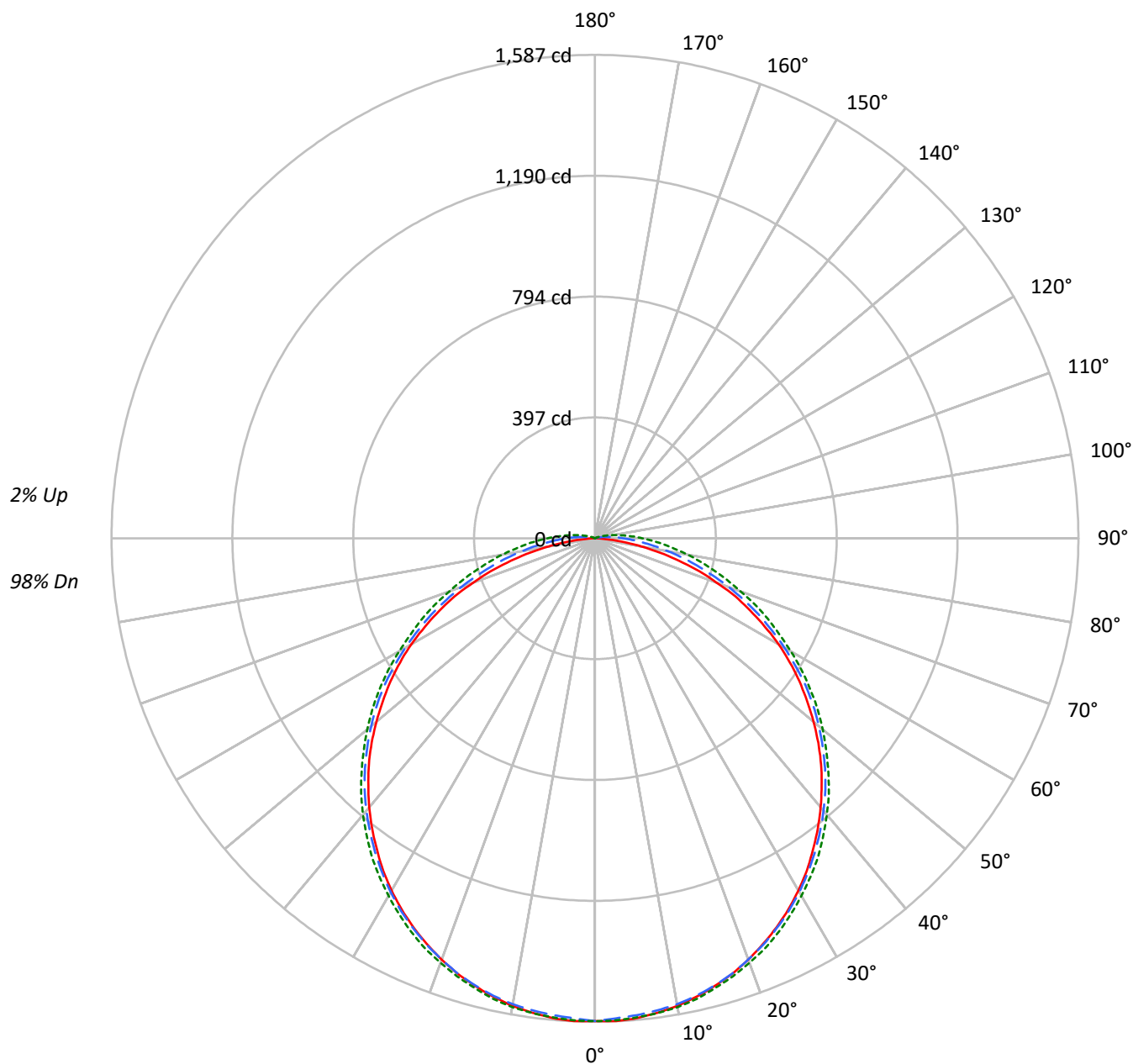
Lumens per Lamp: N/A
Luminaire Lumens: 4792.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 43.1
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: P580570

CATALOG NUMBER: HVSL4-4-LD4-1HI-50-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580570

CATALOG NUMBER: HVSL4-4-LD4-1HI-50-UNV-O-EDD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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
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°	12795	12795	12795
5°	12770	12322	12259
10°	12685	11926	11774
15°	12575	11520	11262
20°	12458	11096	10778
25°	12318	10673	10304
30°	12155	10239	9805
35°	11950	9781	9319
40°	11736	9312	8792
45°	11507	8814	8246
50°	11208	8266	7680
55°	10885	7682	7080
60°	10499	6976	6420
65°	9872	6214	5768
70°	8973	5358	5052
75°	7696	4451	4383
80°	5787	3570	3745
85°	3093	2695	3107



TEST NUMBER: P580570

CATALOG NUMBER: HVSL4-4-LD4-1HI-50-UNV-O-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	3.1
10°-20°	430.2	9.0
20°-30°	652.8	13.6
30°-40°	789.3	16.5
40°-50°	823.6	17.2
50°-60°	753.0	15.7
60°-70°	587.0	12.2
70°-80°	367.2	7.7
80°-90°	166.8	3.5
90°-100°	55.9	1.2
100°-110°	14.0	0.3
110°-120°	2.2	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°	1233.0	25.7
0°-40°	2022.3	42.2
0°-60°	3598.9	75.1
0°-90°	4719.9	98.5
90°-120°	72.1	1.5
90°-150°	72.1	1.5
90°-180°	72.0	1.5
0°-180°	4792.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1582	1579	1572	1579	1579	150
15°	1521	1524	1520	1528	1528	429
25°	1410	1411	1412	1424	1426	650
35°	1248	1254	1259	1271	1277	781
45°	1050	1059	1068	1078	1084	809
55°	819	829	844	857	862	732
65°	563	573	593	616	626	557
75°	285	303	347	388	403	304
85°	49	91	156	207	225	62
90°	0	34	92	139	155	2
95°	0	9	48	87	100	0
105°	1	1	8	23	31	1
115°	1	1	2	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	



TEST NUMBER: P580570

CATALOG NUMBER: HVSL4-4-LD4-1HI-50-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1584.9	1584.9	1584.9	1584.9	1584.9
2.5°	1586.8	1584.5	1577.4	1584.5	1584.2
5°	1581.5	1578.6	1571.5	1578.9	1578.9
7.5°	1571.1	1570.0	1563.6	1572.2	1572.2
10°	1558.8	1558.4	1553.1	1562.5	1562.9
12.5°	1541.6	1543.1	1538.2	1547.2	1548.3
15°	1521.4	1524.0	1519.9	1528.5	1528.1
17.5°	1499.3	1500.8	1497.9	1507.6	1507.2
20°	1472.1	1473.9	1471.7	1481.8	1482.9
22.5°	1441.8	1444.4	1444.0	1454.5	1457.5
25°	1409.7	1410.8	1412.3	1424.2	1426.5
27.5°	1374.2	1376.0	1378.7	1389.5	1391.7
30°	1335.3	1338.3	1341.3	1352.5	1355.5
32.5°	1294.2	1297.2	1301.0	1315.5	1317.0
35°	1247.9	1253.5	1258.7	1271.4	1276.7
37.5°	1201.6	1208.7	1213.5	1227.0	1231.1
40°	1152.6	1159.7	1167.6	1181.8	1184.4
42.5°	1101.4	1109.7	1119.0	1131.7	1136.2
45°	1049.9	1059.2	1067.8	1078.3	1083.5
47.5°	994.2	1003.5	1014.0	1026.0	1029.3
50°	936.7	947.5	958.7	969.9	975.9
52.5°	877.6	890.7	903.4	915.4	921.0
55°	819.4	829.1	844.4	856.7	862.3
57.5°	758.8	767.0	780.9	801.0	804.0
60°	697.2	704.7	718.8	735.3	742.0
62.5°	629.2	639.3	654.2	675.1	681.1
65°	563.0	572.8	592.6	616.1	625.8
67.5°	499.2	502.5	527.9	552.6	568.3
70°	423.7	436.4	465.9	496.2	508.1
72.5°	358.7	371.4	403.9	439.4	454.3
75°	285.1	302.6	346.7	388.2	402.8
77.5°	220.4	239.9	294.4	336.3	353.1
80°	153.9	184.2	243.6	290.7	309.0
82.5°	96.8	134.1	197.6	247.0	263.0
85°	49.3	91.2	156.5	207.0	225.3
87.5°	13.1	59.0	121.8	170.0	188.7
90°	0.4	34.0	92.3	138.6	155.4
92.5°	0.4	19.1	68.7	110.2	127.4
95°	0.4	9.0	47.8	86.7	100.1
97.5°	0.4	3.7	32.9	65.4	78.8
100°	0.4	1.9	20.9	47.4	59.0
102.5°	0.7	1.1	13.1	34.0	43.3
105°	0.7	1.1	7.8	23.2	31.0



TEST NUMBER: P580570

CATALOG NUMBER: HVSL4-4-LD4-1HI-50-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	1.1	1.5	6.4	9.3
115°	1.1	1.1	1.5	4.1	6.0
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	4.5	15.7	21.3
110°	1.1	1.1	2.6	9.7	14.2



(END OF REPORT)