

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: P580690

Luminaire Tested: **HVSL8-2-LD4-2HI-50-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580690  
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: HVSL8-2-LD4-2HI-50-UNV-O-EDD  
Description: 2 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

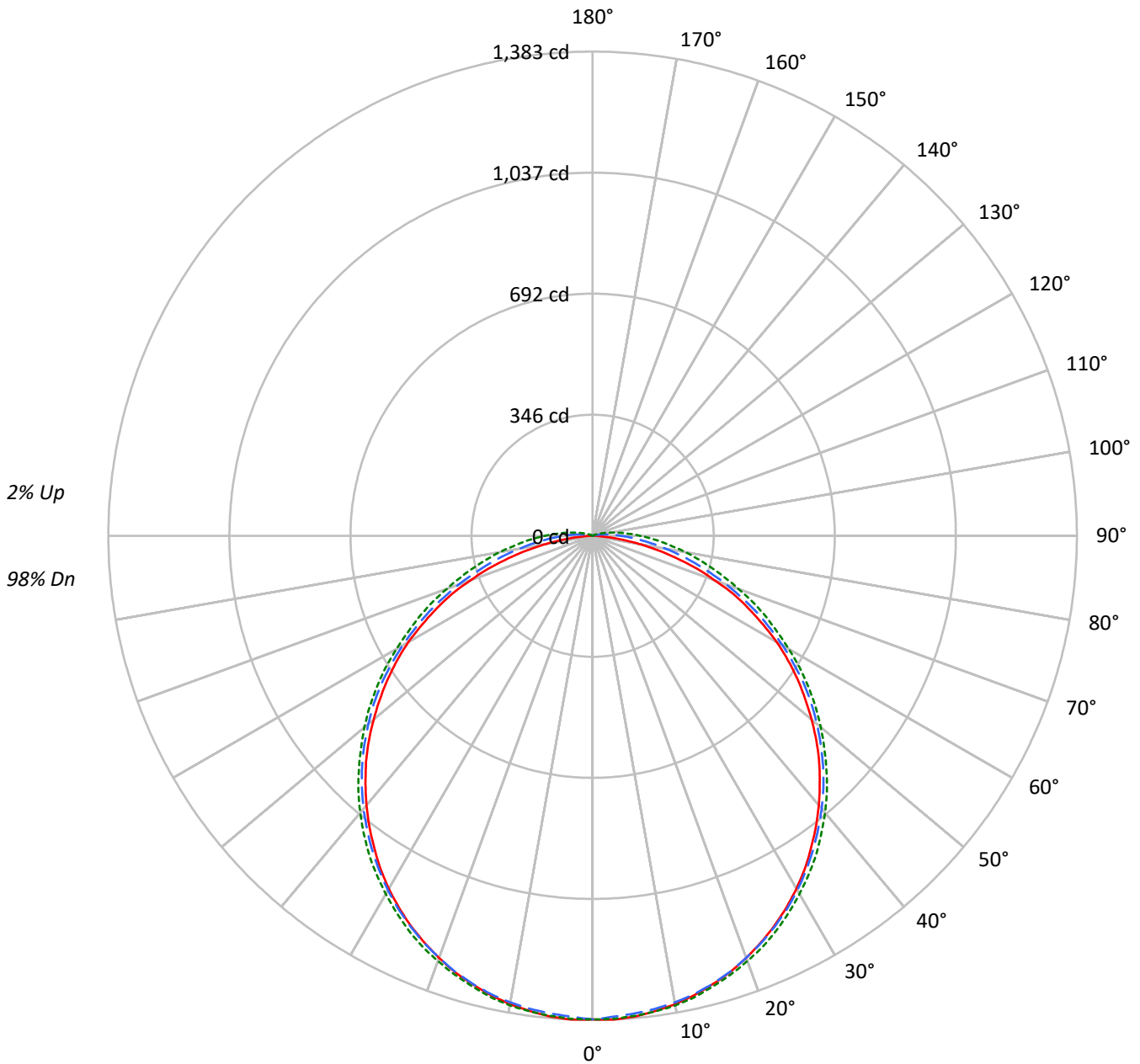
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4177.0 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 2' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 44.4  
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: P580690

CATALOG NUMBER: HVSL8-2-LD4-2HI-50-UNV-O-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P580690

CATALOG NUMBER: HVSL8-2-LD4-2HI-50-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°	11153	11153	11153
5°	11091	10876	10914
10°	10977	10655	10696
15°	10841	10414	10433
20°	10699	10150	10178
25°	10536	9879	9919
30°	10352	9593	9624
35°	10128	9281	9333
40°	9896	8954	8993
45°	9644	8599	8625
50°	9328	8194	8231
55°	8983	7750	7796
60°	8574	7184	7287
65°	7954	6553	6783
70°	7093	5817	6197
75°	5912	5014	5665
80°	4236	4223	5178
85°	2040	3422	4715



TEST NUMBER: P580690

CATALOG NUMBER: HVSL8-2-LD4-2HI-50-UNV-O-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.7	3.1
10°-20°	375.0	9.0
20°-30°	569.0	13.6
30°-40°	688.0	16.5
40°-50°	717.9	17.2
50°-60°	656.4	15.7
60°-70°	511.7	12.2
70°-80°	320.1	7.7
80°-90°	145.4	3.5
90°-100°	48.7	1.2
100°-110°	12.2	0.3
110°-120°	1.9	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°	1074.7	25.7
0°-40°	1762.7	42.2
0°-60°	3137.0	75.1
0°-90°	4114.1	98.5
90°-120°	62.9	1.5
90°-150°	62.9	1.5
90°-180°	63.0	1.5
0°-180°	4177.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1382	1382	1382	1382	1382	
5°	1379	1376	1370	1376	1376	131
15°	1326	1328	1325	1332	1332	374
25°	1229	1230	1231	1242	1243	566
35°	1088	1093	1097	1108	1113	681
45°	915	923	931	940	944	705
55°	714	723	736	747	752	638
65°	491	499	516	537	546	486
75°	248	264	302	338	351	265
85°	43	80	136	180	196	54
90°	0	30	80	121	136	2
95°	0	8	42	76	87	0
105°	1	1	7	20	27	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



TEST NUMBER: P580690

CATALOG NUMBER: HVSL8-2-LD4-2HI-50-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1381.5	1381.5	1381.5	1381.5	1381.5
2.5°	1383.1	1381.2	1375.0	1381.2	1380.8
5°	1378.6	1376.0	1369.8	1376.3	1376.3
7.5°	1369.4	1368.5	1362.9	1370.4	1370.4
10°	1358.7	1358.4	1353.8	1362.0	1362.3
12.5°	1343.7	1345.0	1340.8	1348.6	1349.6
15°	1326.1	1328.4	1324.8	1332.3	1332.0
17.5°	1306.9	1308.2	1305.6	1314.1	1313.8
20°	1283.1	1284.8	1282.8	1291.6	1292.6
22.5°	1256.8	1259.0	1258.7	1267.8	1270.4
25°	1228.8	1229.7	1231.0	1241.5	1243.4
27.5°	1197.8	1199.4	1201.7	1211.2	1213.1
30°	1164.0	1166.6	1169.2	1178.9	1181.5
32.5°	1128.1	1130.7	1134.0	1146.7	1148.0
35°	1087.7	1092.6	1097.2	1108.3	1112.8
37.5°	1047.4	1053.5	1057.8	1069.5	1073.1
40°	1004.7	1010.9	1017.7	1030.1	1032.4
42.5°	960.1	967.2	975.4	986.5	990.4
45°	915.1	923.3	930.8	939.9	944.4
47.5°	866.6	874.8	883.9	894.3	897.2
50°	816.5	825.9	835.7	845.4	850.7
52.5°	765.0	776.4	787.5	797.9	802.8
55°	714.2	722.7	736.0	746.8	751.7
57.5°	661.4	668.6	680.7	698.2	700.8
60°	607.7	614.2	626.6	640.9	646.8
62.5°	548.4	557.2	570.3	588.5	593.7
65°	490.8	499.3	516.5	537.0	545.5
67.5°	435.1	438.0	460.2	481.7	495.3
70°	369.3	380.4	406.1	432.5	442.9
72.5°	312.6	323.7	352.1	383.0	396.0
75°	248.5	263.8	302.2	338.4	351.1
77.5°	192.1	209.1	256.6	293.1	307.8
80°	134.2	160.6	212.3	253.4	269.3
82.5°	84.3	116.9	172.3	215.3	229.3
85°	43.0	79.5	136.5	180.4	196.4
87.5°	11.4	51.5	106.2	148.2	164.5
90°	0.3	29.6	80.4	120.8	135.5
92.5°	0.3	16.6	59.9	96.1	111.1
95°	0.3	7.8	41.7	75.6	87.3
97.5°	0.3	3.3	28.7	57.0	68.7
100°	0.3	1.6	18.2	41.4	51.5
102.5°	0.7	1.0	11.4	29.6	37.8
105°	0.7	1.0	6.8	20.2	27.0



TEST NUMBER: P580690

CATALOG NUMBER: HVSL8-2-LD4-2HI-50-UNV-O-EDD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	1.0	1.3	5.5	8.1
115°	1.0	1.0	1.3	3.6	5.2
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	3.9	13.7	18.6
110°	1.0	1.0	2.3	8.5	12.4



(END OF REPORT)