

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: P580686

Luminaire Tested: **HVSL8-2-LD4-2HI-35-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580686  
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-35-UNV-O-EDD  
Description: 2 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

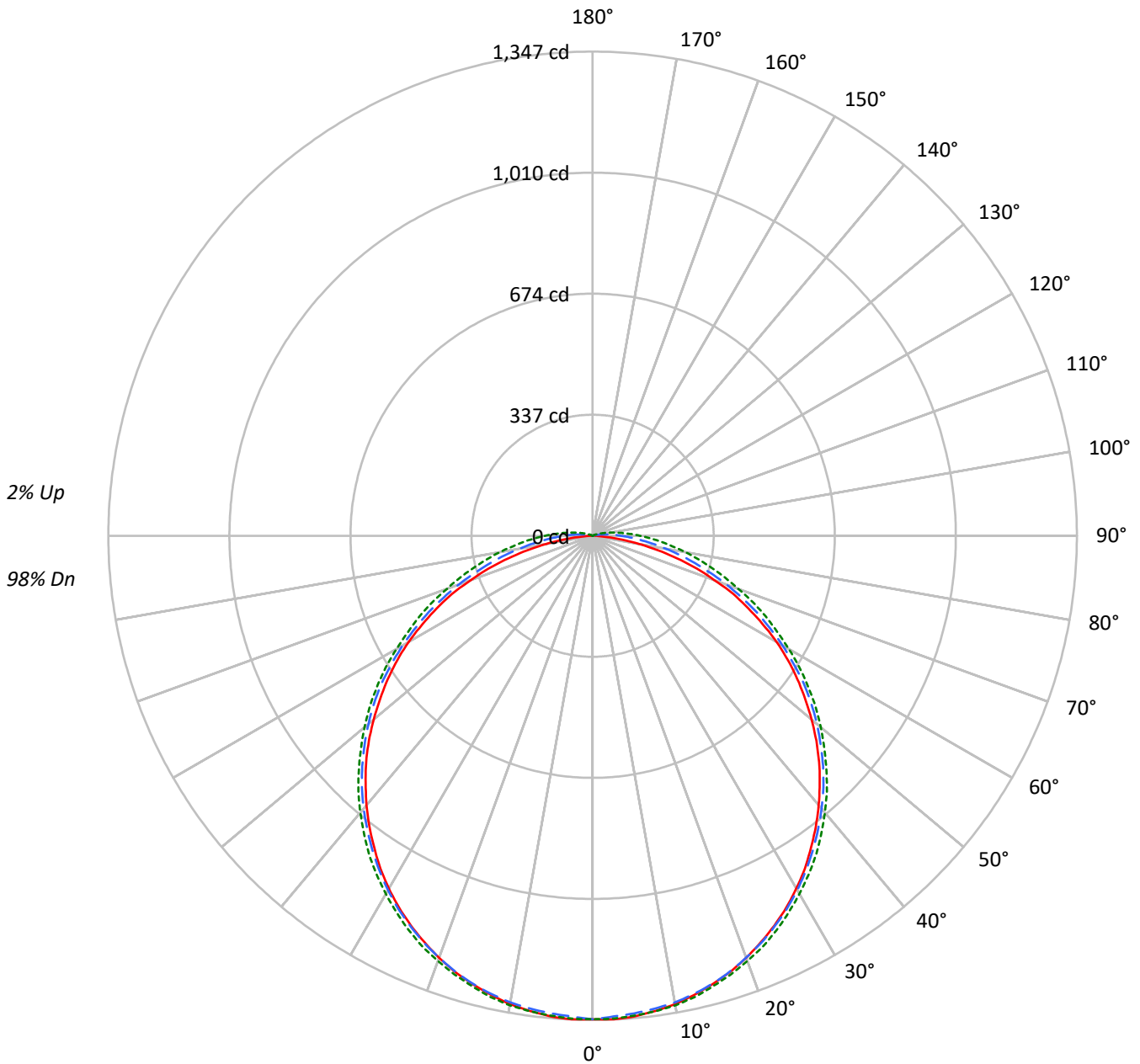
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4067.0 lumens  
Efficiency: N/A  
Efficacy: 91.6 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: P580686

CATALOG NUMBER: HVSL8-2-LD4-2HI-35-UNV-O-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P580686

CATALOG NUMBER: HVSL8-2-LD4-2HI-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°	10859	10859	10859
5°	10799	10590	10627
10°	10687	10375	10414
15°	10556	10140	10158
20°	10418	9882	9911
25°	10258	9619	9658
30°	10079	9341	9371
35°	9862	9037	9087
40°	9635	8718	8756
45°	9390	8373	8399
50°	9082	7978	8015
55°	8746	7545	7591
60°	8348	6995	7096
65°	7745	6381	6604
70°	6906	5664	6033
75°	5755	4883	5515
80°	4123	4112	5041
85°	1988	3332	4590



TEST NUMBER: P580686

CATALOG NUMBER: HVSL8-2-LD4-2HI-35-UNV-O-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.3	3.1
10°-20°	365.1	9.0
20°-30°	554.0	13.6
30°-40°	669.9	16.5
40°-50°	699.0	17.2
50°-60°	639.1	15.7
60°-70°	498.2	12.2
70°-80°	311.6	7.7
80°-90°	141.5	3.5
90°-100°	47.4	1.2
100°-110°	11.9	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°	1046.4	25.7
0°-40°	1716.3	42.2
0°-60°	3054.4	75.1
0°-90°	4005.8	98.5
90°-120°	61.3	1.5
90°-150°	61.3	1.5
90°-180°	61.0	1.5
0°-180°	4067.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1345	1345	1345	1345	1345	
5°	1342	1340	1334	1340	1340	127
15°	1291	1293	1290	1297	1297	364
25°	1196	1197	1199	1209	1211	551
35°	1059	1064	1068	1079	1084	663
45°	891	899	906	915	920	687
55°	695	704	717	727	732	621
65°	478	486	503	523	531	473
75°	242	257	294	330	342	258
85°	42	77	133	176	191	53
90°	0	29	78	118	132	2
95°	0	8	41	74	85	0
105°	1	1	7	20	26	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: P580686

CATALOG NUMBER: HVSL8-2-LD4-2HI-35-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1345.1	1345.1	1345.1	1345.1	1345.1
2.5°	1346.7	1344.8	1338.8	1344.8	1344.5
5°	1342.3	1339.7	1333.7	1340.0	1340.0
7.5°	1333.4	1332.4	1327.0	1334.3	1334.3
10°	1322.9	1322.6	1318.2	1326.1	1326.4
12.5°	1308.3	1309.6	1305.5	1313.1	1314.0
15°	1291.2	1293.4	1289.9	1297.2	1296.9
17.5°	1272.5	1273.8	1271.2	1279.5	1279.2
20°	1249.4	1250.9	1249.0	1257.6	1258.6
22.5°	1223.7	1225.9	1225.6	1234.5	1237.0
25°	1196.4	1197.4	1198.6	1208.8	1210.7
27.5°	1166.3	1167.9	1170.1	1179.3	1181.2
30°	1133.3	1135.8	1138.4	1147.9	1150.4
32.5°	1098.4	1101.0	1104.1	1116.5	1117.8
35°	1059.1	1063.9	1068.3	1079.1	1083.5
37.5°	1019.8	1025.8	1029.9	1041.3	1044.8
40°	978.2	984.3	990.9	1003.0	1005.2
42.5°	934.8	941.8	949.7	960.5	964.3
45°	891.0	899.0	906.3	915.1	919.6
47.5°	843.8	851.7	860.6	870.7	873.6
50°	795.0	804.2	813.7	823.2	828.3
52.5°	744.9	756.0	766.7	776.9	781.6
55°	695.4	703.6	716.6	727.1	731.9
57.5°	644.0	651.0	662.7	679.9	682.4
60°	591.7	598.0	610.1	624.0	629.8
62.5°	534.0	542.5	555.2	573.0	578.1
65°	477.9	486.1	502.9	522.9	531.1
67.5°	423.6	426.5	448.1	469.0	482.3
70°	359.6	370.4	395.4	421.1	431.2
72.5°	304.4	315.2	342.8	372.9	385.6
75°	241.9	256.8	294.3	329.5	341.8
77.5°	187.1	203.6	249.9	285.4	299.7
80°	130.6	156.3	206.7	246.7	262.2
82.5°	82.1	113.8	167.7	209.6	223.2
85°	41.9	77.4	132.9	175.7	191.2
87.5°	11.1	50.1	103.4	144.3	160.1
90°	0.3	28.9	78.3	117.6	131.9
92.5°	0.3	16.2	58.3	93.5	108.1
95°	0.3	7.6	40.6	73.6	85.0
97.5°	0.3	3.2	27.9	55.5	66.9
100°	0.3	1.6	17.8	40.3	50.1
102.5°	0.6	1.0	11.1	28.9	36.8
105°	0.6	1.0	6.7	19.7	26.3



TEST NUMBER: P580686

CATALOG NUMBER: HVSL8-2-LD4-2HI-35-UNV-O-EDD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	1.0	1.3	5.4	7.9
115°	1.0	1.0	1.3	3.5	5.1
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°	0.6	1.0	3.8	13.3	18.1
110°	1.0	1.0	2.2	8.2	12.0



(END OF REPORT)