

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: P580688

Luminaire Tested: **HVSL8-2-LD4-2HI-40-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580688
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-40-UNV-O-EDD
Description: 2 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

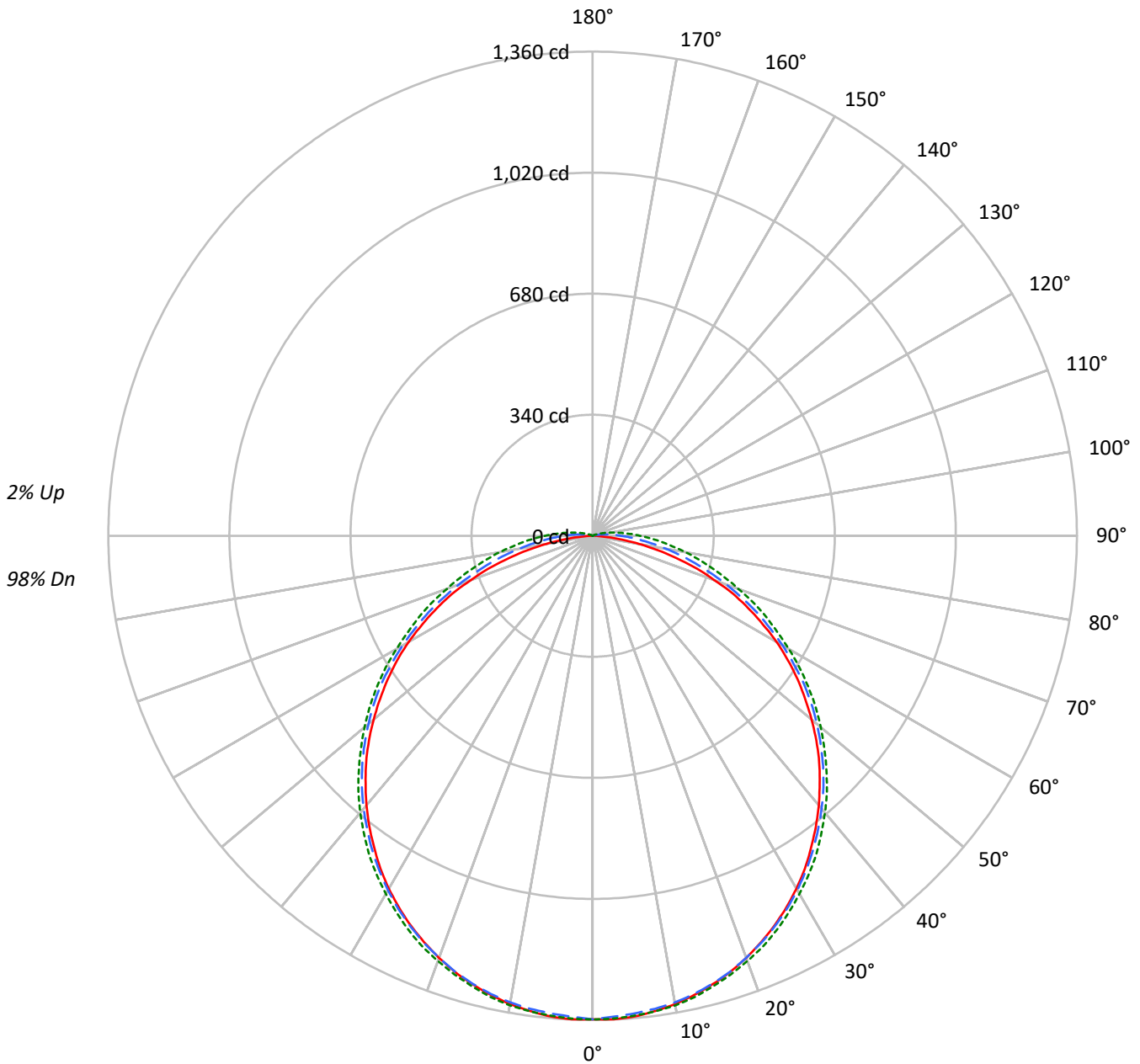
Lumens per Lamp: N/A
Luminaire Lumens: 4107.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 44.4
Input Voltage (V): NR
Input Current (A_{in}): 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: P580688

CATALOG NUMBER: HVSL8-2-LD4-2HI-40-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580688

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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°	10965	10965	10965
5°	10905	10694	10731
10°	10792	10476	10517
15°	10660	10240	10259
20°	10519	9980	10008
25°	10359	9714	9753
30°	10178	9433	9463
35°	9959	9125	9177
40°	9730	8804	8842
45°	9483	8455	8481
50°	9172	8056	8093
55°	8832	7620	7665
60°	8430	7063	7164
65°	7821	6444	6670
70°	6974	5720	6093
75°	5812	4931	5570
80°	4164	4154	5091
85°	2007	3364	4636



TEST NUMBER: P580688

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	3.1
10°-20°	368.7	9.0
20°-30°	559.5	13.6
30°-40°	676.5	16.5
40°-50°	705.9	17.2
50°-60°	645.4	15.7
60°-70°	503.1	12.2
70°-80°	314.7	7.7
80°-90°	142.9	3.5
90°-100°	47.9	1.2
100°-110°	12.0	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°	1056.7	25.7
0°-40°	1733.2	42.2
0°-60°	3084.4	75.1
0°-90°	4045.2	98.5
90°-120°	61.8	1.5
90°-150°	61.8	1.5
90°-180°	62.0	1.5
0°-180°	4107.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1358	1358	1358	1358	1358	
5°	1356	1353	1347	1353	1353	129
15°	1304	1306	1303	1310	1310	368
25°	1208	1209	1210	1221	1223	557
35°	1070	1074	1079	1090	1094	669
45°	900	908	915	924	929	693
55°	702	711	724	734	739	627
65°	483	491	508	528	536	477
75°	244	259	297	333	345	260
85°	42	78	134	177	193	53
90°	0	29	79	119	133	2
95°	0	8	41	74	86	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: P580688

CATALOG NUMBER: HVSL8-2-LD4-2HI-40-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1358.3	1358.3	1358.3	1358.3	1358.3
2.5°	1359.9	1358.0	1351.9	1358.0	1357.7
5°	1355.5	1352.9	1346.8	1353.2	1353.2
7.5°	1346.5	1345.5	1340.1	1347.5	1347.5
10°	1335.9	1335.6	1331.1	1339.1	1339.5
12.5°	1321.2	1322.5	1318.3	1326.0	1327.0
15°	1303.9	1306.2	1302.6	1310.0	1309.7
17.5°	1285.0	1286.3	1283.7	1292.1	1291.7
20°	1261.6	1263.2	1261.3	1270.0	1270.9
22.5°	1235.7	1237.9	1237.6	1246.6	1249.2
25°	1208.2	1209.1	1210.4	1220.7	1222.6
27.5°	1177.7	1179.3	1181.6	1190.9	1192.8
30°	1144.4	1147.0	1149.6	1159.2	1161.7
32.5°	1109.2	1111.8	1115.0	1127.5	1128.8
35°	1069.5	1074.3	1078.8	1089.7	1094.2
37.5°	1029.8	1035.9	1040.1	1051.6	1055.1
40°	987.9	993.9	1000.7	1012.8	1015.1
42.5°	944.0	951.0	959.0	969.9	973.8
45°	899.8	907.8	915.2	924.1	928.6
47.5°	852.1	860.1	869.1	879.3	882.2
50°	802.8	812.1	821.7	831.3	836.4
52.5°	752.2	763.4	774.3	784.5	789.3
55°	702.2	710.6	723.7	734.3	739.1
57.5°	650.4	657.4	669.2	686.5	689.1
60°	597.5	603.9	616.1	630.2	635.9
62.5°	539.2	547.9	560.7	578.6	583.8
65°	482.6	490.9	507.9	528.0	536.4
67.5°	427.8	430.7	452.5	473.6	487.0
70°	363.1	374.0	399.3	425.2	435.5
72.5°	307.4	318.3	346.2	376.6	389.4
75°	244.3	259.4	297.2	332.7	345.2
77.5°	188.9	205.6	252.3	288.2	302.6
80°	131.9	157.9	208.8	249.1	264.8
82.5°	82.9	115.0	169.4	211.7	225.4
85°	42.3	78.1	134.2	177.4	193.1
87.5°	11.2	50.6	104.4	145.7	161.7
90°	0.3	29.1	79.1	118.8	133.2
92.5°	0.3	16.3	58.9	94.5	109.2
95°	0.3	7.7	41.0	74.3	85.8
97.5°	0.3	3.2	28.2	56.0	67.6
100°	0.3	1.6	17.9	40.7	50.6
102.5°	0.6	1.0	11.2	29.1	37.1
105°	0.6	1.0	6.7	19.9	26.6



TEST NUMBER: P580688

CATALOG NUMBER: HVSL8-2-LD4-2HI-40-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	1.0	1.3	5.4	8.0
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	13.4	18.3
110°	1.0	1.0	2.2	8.3	12.2



(END OF REPORT)