

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: P580728

Luminaire Tested: **HVSL8-2-LD4-3STD-40-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580728
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-LD4-3STD-40-UNV-O-EDD
Description: 2 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

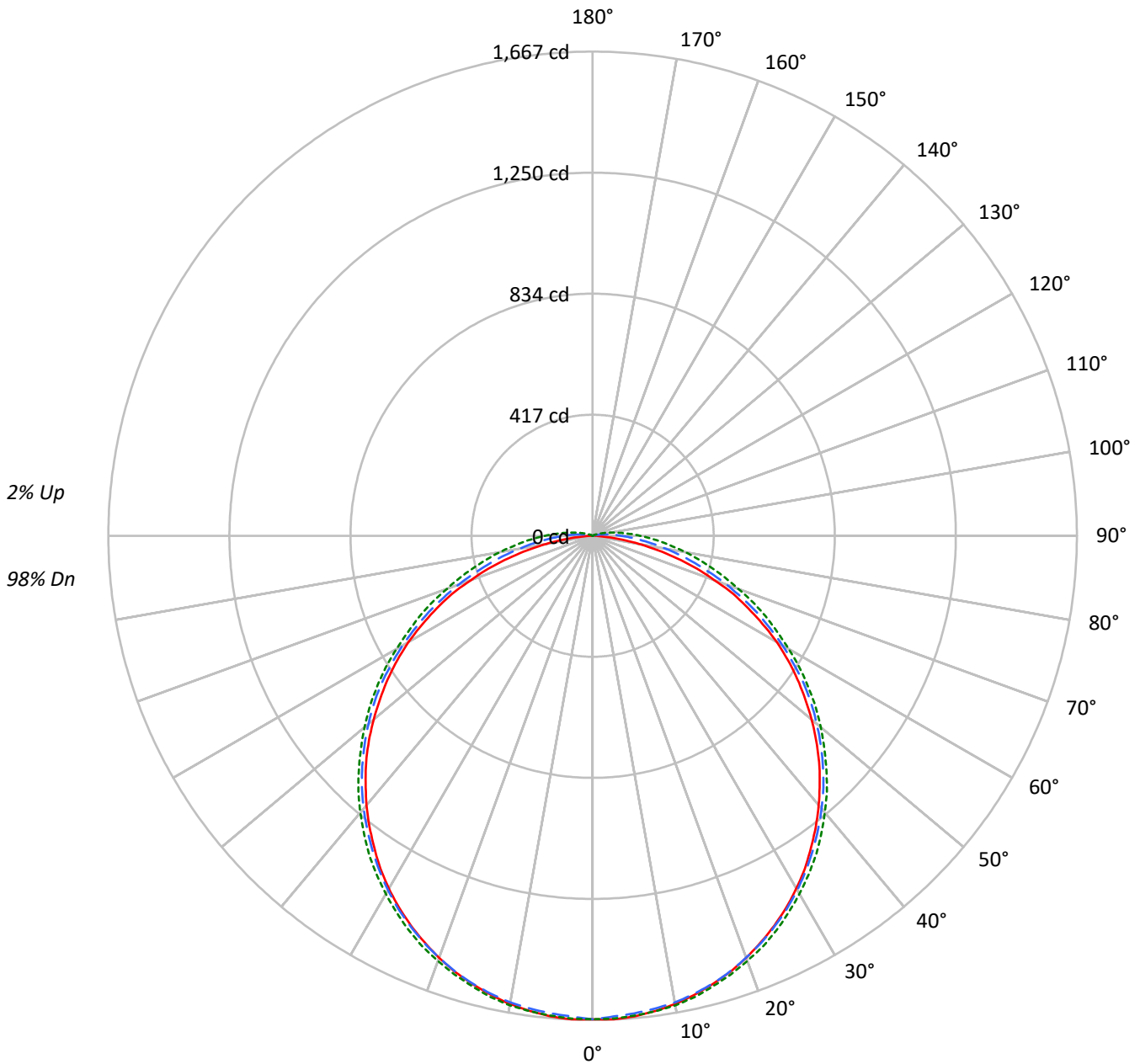
Lumens per Lamp: N/A
Luminaire Lumens: 5033.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 49.2
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: P580728

CATALOG NUMBER: HVSL8-2-LD4-3STD-40-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580728

CATALOG NUMBER: HVSL8-2-LD4-3STD-40-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°	13438	13438	13438
5°	13364	13105	13151
10°	13226	12839	12888
15°	13063	12549	12572
20°	12892	12230	12264
25°	12695	11904	11952
30°	12474	11559	11597
35°	12205	11183	11246
40°	11924	10789	10835
45°	11621	10361	10393
50°	11239	9872	9918
55°	10824	9339	9393
60°	10331	8656	8780
65°	9584	7897	8173
70°	8546	7009	7467
75°	7123	6043	6825
80°	5105	5091	6239
85°	2457	4122	5680



TEST NUMBER: P580728

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	3.1
10°-20°	451.9	9.0
20°-30°	685.6	13.6
30°-40°	829.0	16.5
40°-50°	865.0	17.2
50°-60°	790.9	15.7
60°-70°	616.5	12.2
70°-80°	385.7	7.7
80°-90°	175.2	3.5
90°-100°	58.7	1.2
100°-110°	14.7	0.3
110°-120°	2.3	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°	1295.0	25.7
0°-40°	2124.0	42.2
0°-60°	3779.9	75.1
0°-90°	4957.3	98.5
90°-120°	75.8	1.5
90°-150°	75.8	1.5
90°-180°	76.0	1.5
0°-180°	5033.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1665	1665	1665	1665	1665	
5°	1661	1658	1650	1658	1658	158
15°	1598	1601	1596	1605	1605	451
25°	1481	1482	1483	1496	1498	682
35°	1311	1316	1322	1335	1341	820
45°	1103	1112	1122	1132	1138	850
55°	861	871	887	900	906	769
65°	591	602	622	647	657	585
75°	299	318	364	408	423	319
85°	52	96	164	217	237	66
90°	0	36	97	146	163	2
95°	0	9	50	91	105	0
105°	1	1	8	24	33	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: P580728

CATALOG NUMBER: HVSL8-2-LD4-3STD-40-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1664.6	1664.6	1664.6	1664.6	1664.6
2.5°	1666.6	1664.2	1656.8	1664.2	1663.8
5°	1661.1	1657.9	1650.5	1658.3	1658.3
7.5°	1650.1	1648.9	1642.2	1651.3	1651.3
10°	1637.1	1636.8	1631.3	1641.1	1641.5
12.5°	1619.1	1620.7	1615.6	1625.0	1626.2
15°	1597.9	1600.6	1596.3	1605.4	1605.0
17.5°	1574.7	1576.3	1573.2	1583.4	1583.0
20°	1546.1	1548.1	1545.7	1556.3	1557.5
22.5°	1514.3	1517.1	1516.7	1527.7	1530.8
25°	1480.6	1481.7	1483.3	1495.9	1498.2
27.5°	1443.3	1445.3	1448.0	1459.4	1461.7
30°	1402.5	1405.6	1408.8	1420.5	1423.7
32.5°	1359.3	1362.5	1366.4	1381.7	1383.3
35°	1310.7	1316.5	1322.0	1335.4	1340.9
37.5°	1262.0	1269.5	1274.6	1288.7	1293.0
40°	1210.6	1218.0	1226.3	1241.2	1243.9
42.5°	1156.8	1165.5	1175.3	1188.6	1193.3
45°	1102.7	1112.5	1121.5	1132.5	1138.0
47.5°	1044.2	1054.0	1065.0	1077.6	1081.1
50°	983.8	995.2	1006.9	1018.7	1025.0
52.5°	921.8	935.5	948.9	961.4	967.3
55°	860.6	870.8	886.9	899.8	905.7
57.5°	797.0	805.6	820.1	841.3	844.5
60°	732.2	740.1	755.0	772.3	779.3
62.5°	660.8	671.4	687.1	709.1	715.4
65°	591.4	601.6	622.4	647.1	657.3
67.5°	524.3	527.8	554.5	580.4	596.9
70°	445.0	458.3	489.3	521.1	533.7
72.5°	376.7	390.1	424.2	461.5	477.2
75°	299.4	317.9	364.2	407.7	423.0
77.5°	231.5	251.9	309.2	353.2	370.8
80°	161.7	193.5	255.9	305.3	324.5
82.5°	101.6	140.9	207.6	259.4	276.3
85°	51.8	95.7	164.4	217.4	236.6
87.5°	13.7	62.0	127.9	178.5	198.2
90°	0.4	35.7	96.9	145.6	163.2
92.5°	0.4	20.0	72.2	115.8	133.8
95°	0.4	9.4	50.2	91.0	105.2
97.5°	0.4	3.9	34.5	68.7	82.8
100°	0.4	2.0	22.0	49.8	62.0
102.5°	0.8	1.2	13.7	35.7	45.5
105°	0.8	1.2	8.2	24.3	32.6



TEST NUMBER: P580728

CATALOG NUMBER: HVSL8-2-LD4-3STD-40-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	1.2	1.6	6.7	9.8
115°	1.2	1.2	1.6	4.3	6.3
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°	0.8	1.2	4.7	16.5	22.4
110°	1.2	1.2	2.7	10.2	14.9



(END OF REPORT)