

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: P580766

Luminaire Tested: **HVSL8-4-LD4-2LO-35-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580766
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: HVSL8-4-LD4-2LO-35-UNV-O-EDD
Description: 4 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

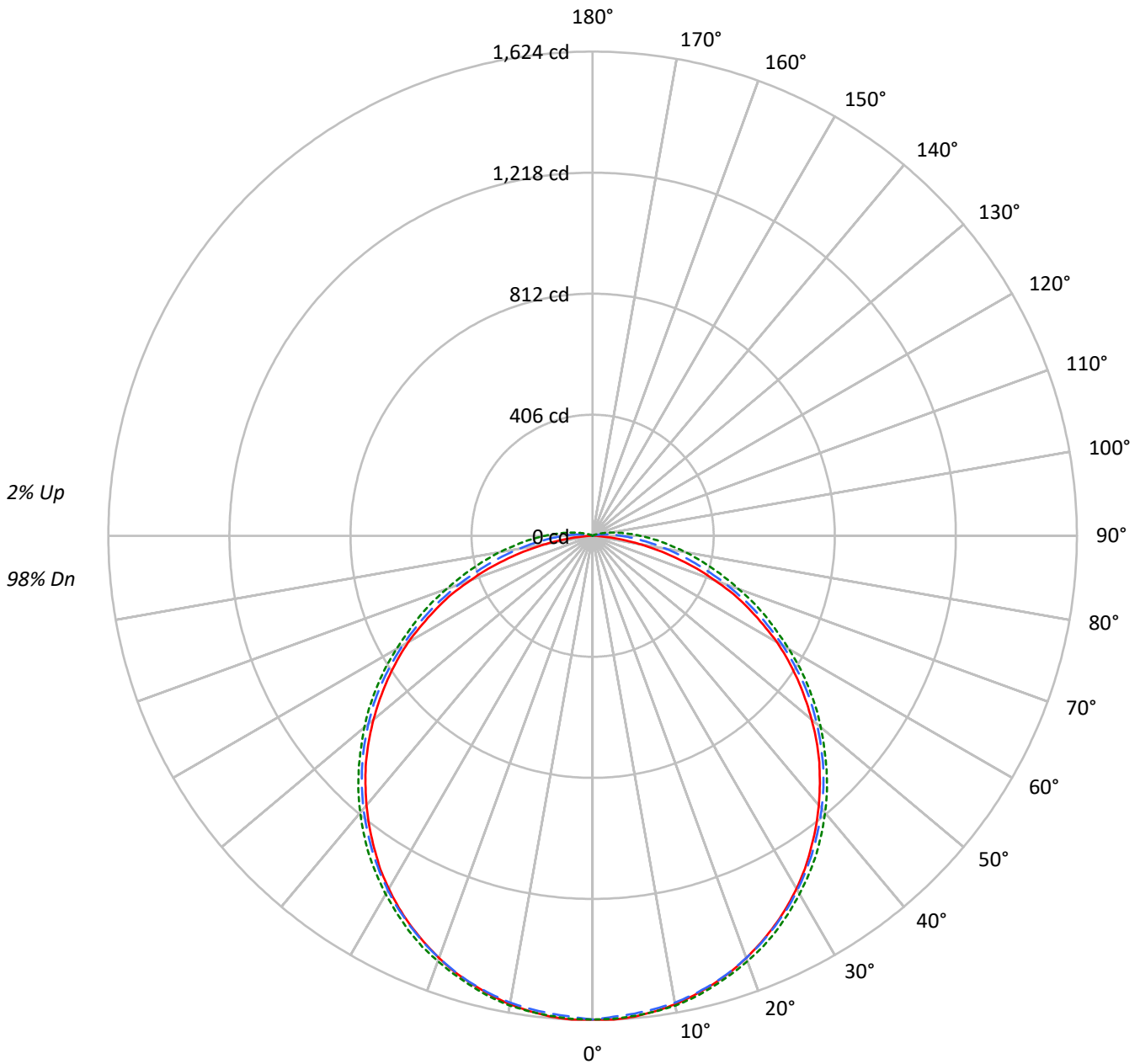
Lumens per Lamp: N/A
Luminaire Lumens: 4906.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 47.5
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: P580766

CATALOG NUMBER: HVSL8-4-LD4-2LO-35-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580766

CATALOG NUMBER: HVSL8-4-LD4-2LO-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°	6550	6550	6550
5°	6537	6403	6410
10°	6493	6289	6281
15°	6437	6162	6127
20°	6377	6020	5977
25°	6305	5875	5825
30°	6222	5719	5652
35°	6117	5549	5481
40°	6008	5369	5281
45°	5891	5173	5066
50°	5737	4947	4834
55°	5571	4699	4578
60°	5375	4377	4280
65°	5054	4017	3983
70°	4594	3593	3639
75°	3940	3128	3326
80°	2963	2672	3041
85°	1584	2211	2769



TEST NUMBER: P580766

CATALOG NUMBER: HVSL8-4-LD4-2LO-35-UNV-O-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.5	3.1
10°-20°	440.4	9.0
20°-30°	668.3	13.6
30°-40°	808.1	16.5
40°-50°	843.2	17.2
50°-60°	770.9	15.7
60°-70°	601.0	12.2
70°-80°	375.9	7.7
80°-90°	170.7	3.5
90°-100°	57.2	1.2
100°-110°	14.4	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°	1262.3	25.7
0°-40°	2070.4	42.2
0°-60°	3684.5	75.1
0°-90°	4832.1	98.5
90°-120°	73.8	1.5
90°-150°	73.8	1.5
90°-180°	74.0	1.5
0°-180°	4906.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1623	1623	1623	1623	1623	
5°	1619	1616	1609	1616	1616	154
15°	1558	1560	1556	1565	1564	440
25°	1443	1444	1446	1458	1460	665
35°	1278	1283	1289	1302	1307	800
45°	1075	1084	1093	1104	1109	828
55°	839	849	864	877	883	749
65°	576	586	607	631	641	570
75°	292	310	355	397	412	311
85°	50	93	160	212	231	64
90°	0	35	94	142	159	2
95°	0	9	49	89	102	0
105°	1	1	8	24	32	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	0



TEST NUMBER: P580766

CATALOG NUMBER: HVSL8-4-LD4-2LO-35-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1622.6	1622.6	1622.6	1622.6	1622.6
2.5°	1624.5	1622.2	1615.0	1622.2	1621.8
5°	1619.2	1616.1	1608.8	1616.5	1616.5
7.5°	1608.5	1607.3	1600.8	1609.6	1609.6
10°	1595.8	1595.5	1590.1	1599.7	1600.0
12.5°	1578.2	1579.8	1574.8	1584.0	1585.1
15°	1557.6	1560.3	1556.1	1564.8	1564.5
17.5°	1535.0	1536.5	1533.5	1543.4	1543.0
20°	1507.1	1509.0	1506.7	1517.0	1518.2
22.5°	1476.1	1478.8	1478.4	1489.1	1492.2
25°	1443.2	1444.4	1445.9	1458.1	1460.4
27.5°	1406.9	1408.8	1411.5	1422.6	1424.9
30°	1367.1	1370.2	1373.2	1384.7	1387.7
32.5°	1325.0	1328.1	1331.9	1346.8	1348.3
35°	1277.6	1283.3	1288.7	1301.7	1307.0
37.5°	1230.2	1237.4	1242.4	1256.2	1260.4
40°	1180.0	1187.3	1195.3	1209.9	1212.6
42.5°	1127.6	1136.1	1145.6	1158.6	1163.2
45°	1074.9	1084.4	1093.2	1103.9	1109.3
47.5°	1017.9	1027.4	1038.1	1050.4	1053.8
50°	959.0	970.0	981.5	993.0	999.1
52.5°	898.5	911.9	924.9	937.2	942.9
55°	838.8	848.8	864.5	877.1	882.8
57.5°	776.9	785.3	799.4	820.1	823.2
60°	713.8	721.4	735.9	752.8	759.7
62.5°	644.1	654.5	669.8	691.2	697.3
65°	576.4	586.4	606.7	630.8	640.7
67.5°	511.0	514.5	540.5	565.7	581.8
70°	433.8	446.8	477.0	508.0	520.2
72.5°	367.2	380.2	413.5	449.8	465.1
75°	291.9	309.8	355.0	397.4	412.3
77.5°	225.7	245.6	301.4	344.3	361.5
80°	157.6	188.6	249.4	297.6	316.3
82.5°	99.1	137.3	202.3	252.8	269.3
85°	50.5	93.3	160.3	211.9	230.7
87.5°	13.4	60.4	124.7	174.0	193.2
90°	0.4	34.8	94.5	141.9	159.1
92.5°	0.4	19.5	70.4	112.8	130.4
95°	0.4	9.2	49.0	88.7	102.5
97.5°	0.4	3.8	33.7	66.9	80.7
100°	0.4	1.9	21.4	48.6	60.4
102.5°	0.8	1.1	13.4	34.8	44.4
105°	0.8	1.1	8.0	23.7	31.7



TEST NUMBER: P580766

CATALOG NUMBER: HVSL8-4-LD4-2LO-35-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	1.1	1.5	6.5	9.6
115°	1.1	1.1	1.5	4.2	6.1
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°	0.8	1.1	4.6	16.1	21.8
110°	1.1	1.1	2.7	9.9	14.5



(END OF REPORT)