

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: P580545

Luminaire Tested: **HVSL4-3-LD4-2HI-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580545
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: HVSL4-3-LD4-2HI-50-UNV-O-EDD-90
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

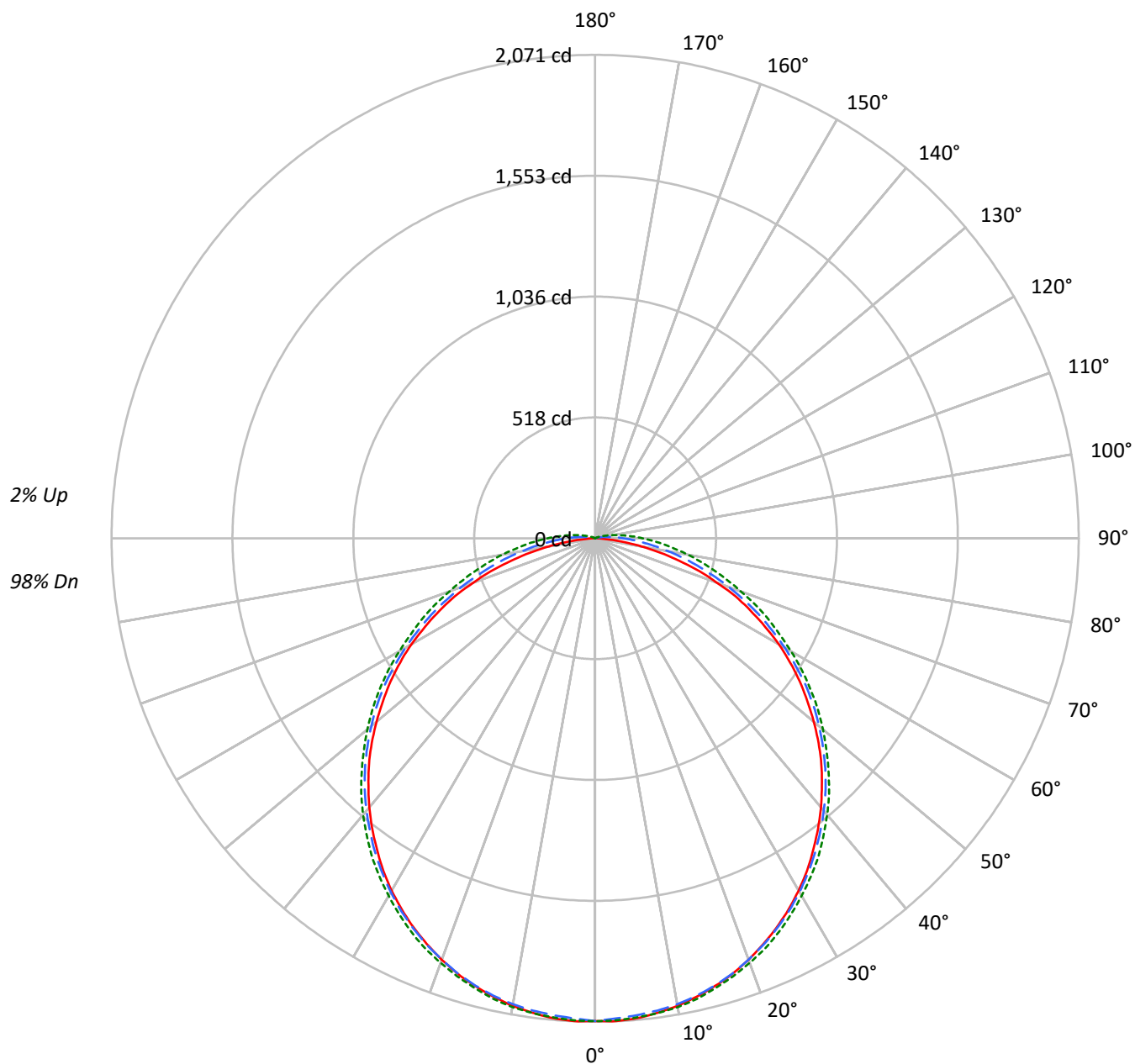
Lumens per Lamp: N/A
Luminaire Lumens: 6254.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 64.7
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: P580545

CATALOG NUMBER: HVSL4-3-LD4-2HI-50-UNV-O-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P580545

CATALOG NUMBER: HVSL4-3-LD4-2HI-50-UNV-O-EDD-90

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	22264	22264	22264
5°	22195	21424	21332
10°	22019	20720	20487
15°	21802	19999	19598
20°	21571	19248	18755
25°	21299	18501	17930
30°	20987	17734	17062
35°	20599	16929	16216
40°	20196	16102	15299
45°	19760	15230	14350
50°	19199	14270	13363
55°	18591	13247	12320
60°	17868	12018	11171
65°	16722	10690	10037
70°	15099	9203	8792
75°	12814	7630	7626
80°	9469	6104	6517
85°	4864	4595	5406



TEST NUMBER: P580545

CATALOG NUMBER: HVSL4-3-LD4-2HI-50-UNV-O-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.7	3.1
10°-20°	561.5	9.0
20°-30°	851.9	13.6
30°-40°	1030.1	16.5
40°-50°	1074.9	17.2
50°-60°	982.7	15.7
60°-70°	766.1	12.2
70°-80°	479.2	7.7
80°-90°	217.7	3.5
90°-100°	72.9	1.2
100°-110°	18.3	0.3
110°-120°	2.9	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°	1609.1	25.7
0°-40°	2639.3	42.2
0°-60°	4696.9	75.1
0°-90°	6159.8	98.5
90°-120°	94.2	1.5
90°-150°	94.2	1.5
90°-180°	94.0	1.5
0°-180°	6254.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2068	2068	2068	2068	2068	
5°	2064	2060	2051	2061	2061	196
15°	1986	1989	1984	1995	1994	561
25°	1840	1841	1843	1859	1862	848
35°	1629	1636	1643	1659	1666	1019
45°	1370	1382	1394	1407	1414	1056
55°	1069	1082	1102	1118	1125	955
65°	735	748	773	804	817	727
75°	372	395	452	507	526	397
85°	64	119	204	270	294	81
90°	0	44	120	181	203	3
95°	0	12	62	113	131	0
105°	1	2	10	30	40	1
115°	2	2	2	5	8	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: P580545

CATALOG NUMBER: HVSL4-3-LD4-2HI-50-UNV-O-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2068.4	2068.4	2068.4	2068.4	2068.4
2.5°	2070.9	2068.0	2058.7	2068.0	2067.5
5°	2064.1	2060.2	2050.9	2060.6	2060.6
7.5°	2050.4	2048.9	2040.7	2051.9	2051.9
10°	2034.3	2033.8	2027.0	2039.2	2039.7
12.5°	2011.9	2013.8	2007.5	2019.2	2020.7
15°	1985.6	1989.0	1983.6	1994.8	1994.3
17.5°	1956.8	1958.7	1954.8	1967.5	1967.0
20°	1921.2	1923.6	1920.7	1933.9	1935.3
22.5°	1881.7	1885.1	1884.6	1898.3	1902.2
25°	1839.8	1841.2	1843.2	1858.8	1861.7
27.5°	1793.4	1795.9	1799.3	1813.4	1816.4
30°	1742.7	1746.6	1750.5	1765.2	1769.1
32.5°	1689.1	1693.0	1697.9	1716.9	1718.8
35°	1628.6	1635.9	1642.8	1659.3	1666.2
37.5°	1568.2	1577.4	1583.8	1601.3	1606.7
40°	1504.3	1513.5	1523.8	1542.3	1545.7
42.5°	1437.5	1448.2	1460.4	1477.0	1482.8
45°	1370.2	1382.4	1393.6	1407.2	1414.1
47.5°	1297.5	1309.7	1323.4	1339.0	1343.4
50°	1222.4	1236.6	1251.2	1265.8	1273.6
52.5°	1145.4	1162.5	1179.0	1194.6	1202.0
55°	1069.3	1082.0	1102.0	1118.1	1125.4
57.5°	990.3	1001.1	1019.1	1045.4	1049.3
60°	909.9	919.6	938.2	959.6	968.4
62.5°	821.1	834.3	853.8	881.1	888.9
65°	734.8	747.5	773.4	804.1	816.7
67.5°	651.4	655.8	689.0	721.2	741.7
70°	553.0	569.5	608.1	647.5	663.2
72.5°	468.1	484.7	527.1	573.4	592.9
75°	372.0	395.0	452.5	506.6	525.6
77.5°	287.7	313.0	384.2	438.8	460.8
80°	200.9	240.4	317.9	379.4	403.3
82.5°	126.3	175.1	257.9	322.3	343.3
85°	64.4	119.0	204.3	270.1	294.0
87.5°	17.1	77.0	159.0	221.9	246.2
90°	0.5	44.4	120.4	180.9	202.8
92.5°	0.5	24.9	89.7	143.8	166.3
95°	0.5	11.7	62.4	113.1	130.7
97.5°	0.5	4.9	42.9	85.3	102.9
100°	0.5	2.4	27.3	61.9	77.0
102.5°	1.0	1.5	17.1	44.4	56.6
105°	1.0	1.5	10.2	30.2	40.5



TEST NUMBER: P580545

CATALOG NUMBER: HVSL4-3-LD4-2HI-50-UNV-O-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	1.5	2.0	8.3	12.2
115°	1.5	1.5	2.0	5.4	7.8
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°	1.0	1.5	5.9	20.5	27.8
110°	1.5	1.5	3.4	12.7	18.5



(END OF REPORT)