

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: P580561

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580561
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-LD4-2STD-50-UNV-O-EDD-90
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

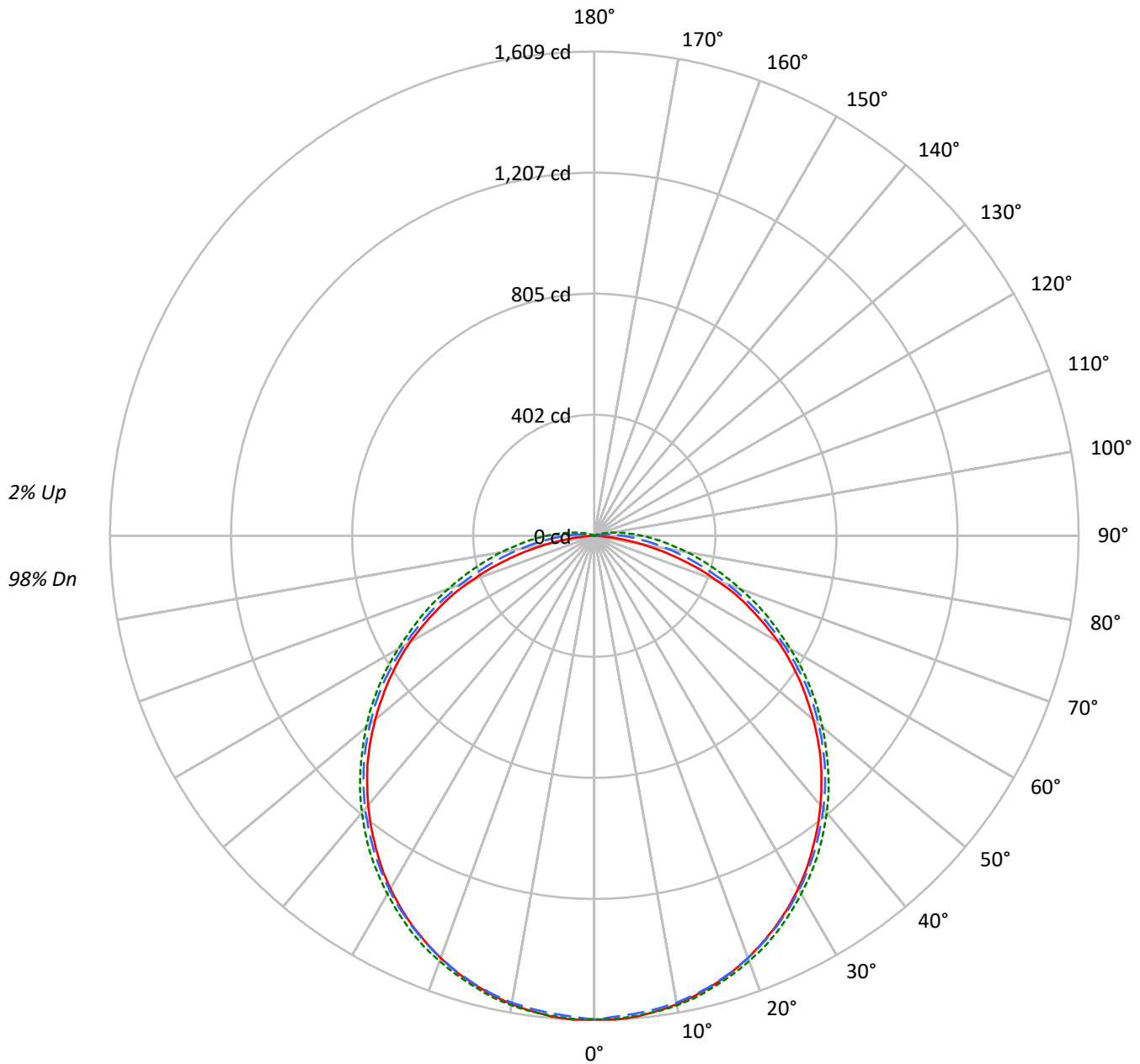
Lumens per Lamp: N/A
Luminaire Lumens: 4860.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 49.1
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: P580561

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

Luminous Intensity Polar Plot





TEST NUMBER: P580561

CATALOG NUMBER: HVSL4-3-LD4-2STD-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°	17302	17302	17302
5°	17247	16649	16577
10°	17112	16101	15920
15°	16942	15542	15230
20°	16763	14958	14574
25°	16551	14377	13933
30°	16309	13781	13258
35°	16008	13156	12601
40°	15694	12513	11889
45°	15356	11836	11151
50°	14920	11089	10384
55°	14448	10295	9575
60°	13886	9338	8681
65°	12995	8307	7800
70°	11732	7151	6831
75°	9958	5929	5927
80°	7358	4745	5064
85°	3777	3572	4202



TEST NUMBER: P580561

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.1	3.1
10°-20°	436.3	9.0
20°-30°	662.0	13.6
30°-40°	800.5	16.5
40°-50°	835.3	17.2
50°-60°	763.7	15.7
60°-70°	595.3	12.2
70°-80°	372.4	7.7
80°-90°	169.2	3.5
90°-100°	56.7	1.2
100°-110°	14.2	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°	1250.5	25.7
0°-40°	2051.0	42.2
0°-60°	3649.9	75.1
0°-90°	4786.8	98.5
90°-120°	73.2	1.5
90°-150°	73.2	1.5
90°-180°	73.0	1.5
0°-180°	4860.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1607	1607	1607	1607	1607	
5°	1604	1601	1594	1601	1601	152
15°	1543	1546	1542	1550	1550	436
25°	1430	1431	1432	1444	1447	659
35°	1266	1271	1277	1290	1295	792
45°	1065	1074	1083	1094	1099	820
55°	831	841	856	869	875	742
65°	571	581	601	625	635	565
75°	289	307	352	394	408	308
85°	50	92	159	210	228	63
90°	0	34	94	141	158	2
95°	0	9	48	88	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	



TEST NUMBER: P580561

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1607.4	1607.4	1607.4	1607.4	1607.4
2.5°	1609.3	1607.0	1599.8	1607.0	1606.6
5°	1604.0	1601.0	1593.8	1601.3	1601.3
7.5°	1593.4	1592.2	1585.8	1594.5	1594.5
10°	1580.9	1580.5	1575.2	1584.7	1585.0
12.5°	1563.4	1565.0	1560.0	1569.1	1570.3
15°	1543.0	1545.6	1541.5	1550.2	1549.8
17.5°	1520.6	1522.1	1519.1	1529.0	1528.6
20°	1493.0	1494.9	1492.6	1502.8	1503.9
22.5°	1462.3	1464.9	1464.5	1475.2	1478.2
25°	1429.7	1430.8	1432.3	1444.5	1446.7
27.5°	1393.7	1395.6	1398.2	1409.2	1411.5
30°	1354.3	1357.3	1360.3	1371.7	1374.7
32.5°	1312.6	1315.6	1319.4	1334.2	1335.7
35°	1265.6	1271.3	1276.6	1289.5	1294.8
37.5°	1218.6	1225.8	1230.7	1244.4	1248.6
40°	1169.0	1176.2	1184.1	1198.5	1201.2
42.5°	1117.1	1125.4	1134.9	1147.8	1152.3
45°	1064.8	1074.2	1083.0	1093.6	1098.9
47.5°	1008.3	1017.8	1028.4	1040.5	1043.9
50°	950.0	961.0	972.3	983.7	989.7
52.5°	890.1	903.4	916.2	928.4	934.0
55°	831.0	840.8	856.4	868.9	874.6
57.5°	769.6	777.9	792.0	812.4	815.4
60°	707.1	714.7	729.0	745.7	752.5
62.5°	638.1	648.3	663.5	684.7	690.8
65°	571.0	580.9	601.0	624.8	634.7
67.5°	506.2	509.7	535.4	560.4	576.3
70°	429.7	442.6	472.5	503.2	515.3
72.5°	363.8	376.7	409.6	445.6	460.8
75°	289.1	306.9	351.6	393.7	408.5
77.5°	223.6	243.3	298.6	341.0	358.1
80°	156.1	186.8	247.1	294.8	313.4
82.5°	98.1	136.0	200.5	250.5	266.8
85°	50.0	92.5	158.8	209.9	228.5
87.5°	13.3	59.9	123.5	172.4	191.4
90°	0.4	34.5	93.6	140.6	157.6
92.5°	0.4	19.3	69.7	111.8	129.2
95°	0.4	9.1	48.5	87.9	101.6
97.5°	0.4	3.8	33.3	66.3	80.0
100°	0.4	1.9	21.2	48.1	59.9
102.5°	0.8	1.1	13.3	34.5	44.0
105°	0.8	1.1	8.0	23.5	31.5



TEST NUMBER: P580561

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	1.1	1.5	6.4	9.5
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	4.5	15.9	21.6
110°	1.1	1.1	2.7	9.9	14.4



(END OF REPORT)