

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: P580626

Luminaire Tested: **HVSL4-8-LD4-1LO-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580626
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: HVSL4-8-LD4-1LO-50-UNV-O-EDD
Description: 8 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

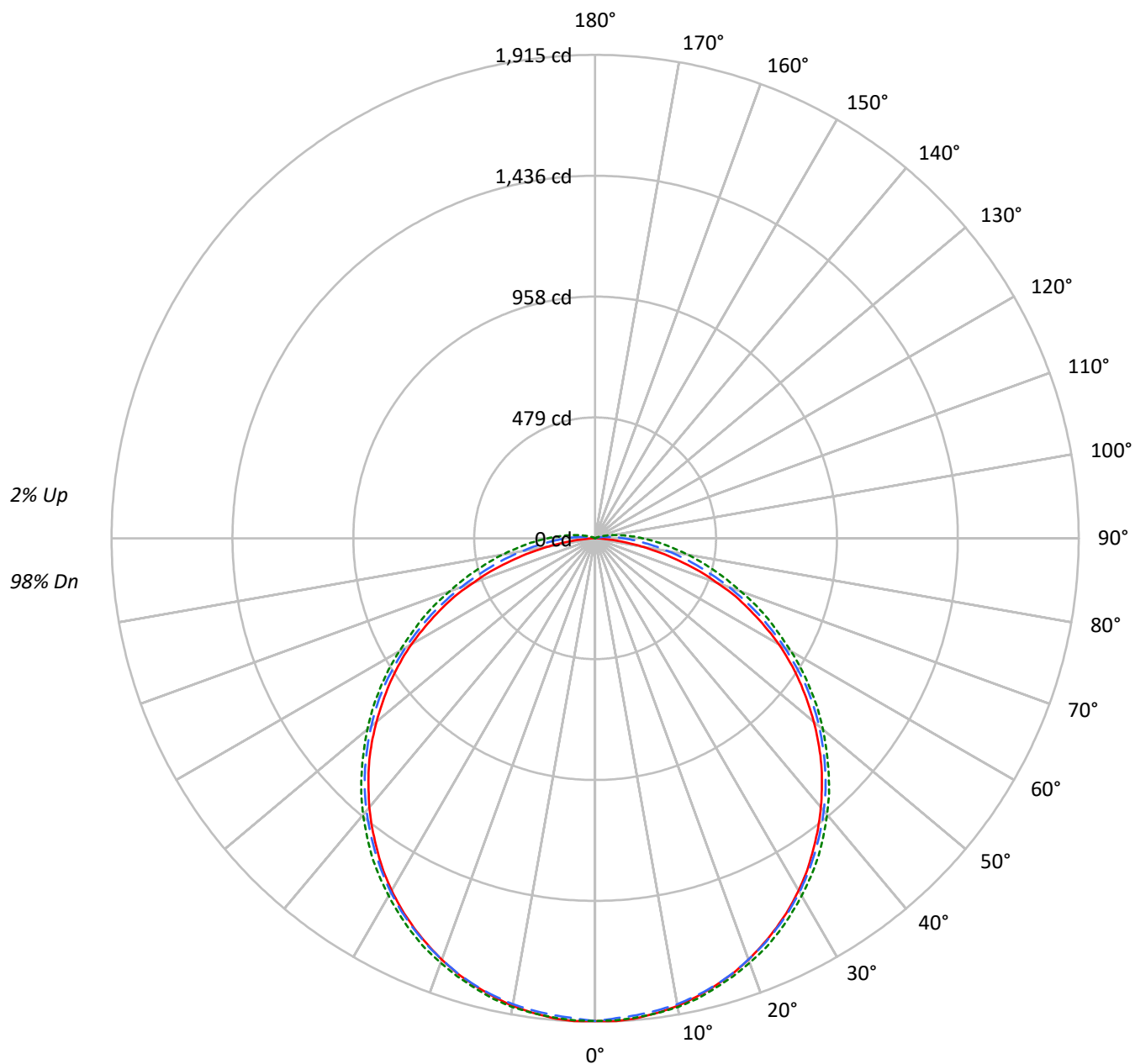
Lumens per Lamp: N/A
Luminaire Lumens: 5782.0 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 46.2
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

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Luminous Intensity Polar Plot





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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°	7719	7719	7719
5°	7718	7443	7396
10°	7681	7213	7103
15°	7629	6975	6795
20°	7572	6726	6502
25°	7502	6477	6216
30°	7420	6220	5915
35°	7313	5950	5622
40°	7202	5671	5304
45°	7084	5375	4975
50°	6925	5048	4633
55°	6756	4698	4272
60°	6554	4275	3873
65°	6211	3815	3480
70°	5706	3298	3048
75°	4978	2748	2644
80°	3860	2212	2259
85°	2226	1679	1874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	3.1
10°-20°	519.1	9.0
20°-30°	787.6	13.6
30°-40°	952.4	16.5
40°-50°	993.7	17.2
50°-60°	908.6	15.7
60°-70°	708.3	12.2
70°-80°	443.1	7.7
80°-90°	201.2	3.5
90°-100°	67.5	1.2
100°-110°	16.9	0.3
110°-120°	2.7	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°	1487.7	25.7
0°-40°	2440.1	42.2
0°-60°	4342.4	75.1
0°-90°	5694.9	98.5
90°-120°	87.1	1.5
90°-150°	87.1	1.5
90°-180°	87.0	1.5
0°-180°	5782.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1912	1912	1912	1912	1912	
5°	1908	1905	1896	1905	1905	181
15°	1836	1839	1834	1844	1844	518
25°	1701	1702	1704	1718	1721	784
35°	1506	1512	1519	1534	1540	942
45°	1267	1278	1288	1301	1307	976
55°	989	1000	1019	1034	1040	883
65°	679	691	715	743	755	672
75°	344	365	418	468	486	367
85°	60	110	189	250	272	75
90°	0	41	111	167	188	2
95°	0	11	58	105	121	0
105°	1	1	10	28	37	1
115°	1	1	2	5	7	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1912.3	1912.3	1912.3	1912.3	1912.3
2.5°	1914.6	1911.9	1903.3	1911.9	1911.4
5°	1908.3	1904.7	1896.1	1905.1	1905.1
7.5°	1895.7	1894.3	1886.6	1897.0	1897.0
10°	1880.8	1880.3	1874.0	1885.3	1885.7
12.5°	1860.0	1861.8	1856.0	1866.8	1868.2
15°	1835.7	1838.9	1833.9	1844.3	1843.8
17.5°	1809.1	1810.9	1807.3	1819.0	1818.6
20°	1776.2	1778.4	1775.7	1787.9	1789.3
22.5°	1739.7	1742.8	1742.4	1755.0	1758.6
25°	1700.9	1702.3	1704.1	1718.5	1721.2
27.5°	1658.1	1660.3	1663.5	1676.6	1679.3
30°	1611.2	1614.8	1618.4	1631.9	1635.5
32.5°	1561.6	1565.2	1569.7	1587.3	1589.1
35°	1505.7	1512.5	1518.8	1534.1	1540.4
37.5°	1449.8	1458.4	1464.2	1480.5	1485.4
40°	1390.7	1399.3	1408.8	1425.9	1429.1
42.5°	1329.0	1338.9	1350.2	1365.5	1370.9
45°	1266.8	1278.0	1288.4	1301.0	1307.3
47.5°	1199.6	1210.9	1223.5	1237.9	1242.0
50°	1130.2	1143.3	1156.8	1170.3	1177.5
52.5°	1059.0	1074.7	1090.1	1104.5	1111.2
55°	988.6	1000.3	1018.8	1033.7	1040.5
57.5°	915.6	925.5	942.2	966.5	970.1
60°	841.2	850.2	867.4	887.2	895.3
62.5°	759.2	771.3	789.4	814.6	821.8
65°	679.4	691.1	715.0	743.4	755.1
67.5°	602.3	606.3	637.0	666.7	685.7
70°	511.2	526.5	562.2	598.7	613.1
72.5°	432.8	448.1	487.3	530.2	548.2
75°	344.0	365.2	418.4	468.4	486.0
77.5°	266.0	289.4	355.2	405.7	426.0
80°	185.7	222.2	293.9	350.7	372.8
82.5°	116.8	161.8	238.5	298.0	317.4
85°	59.5	110.0	188.9	249.7	271.8
87.5°	15.8	71.2	147.0	205.1	227.7
90°	0.5	41.0	111.4	167.3	187.5
92.5°	0.5	23.0	82.9	133.0	153.7
95°	0.5	10.8	57.7	104.6	120.8
97.5°	0.5	4.5	39.7	78.9	95.1
100°	0.5	2.3	25.2	57.3	71.2
102.5°	0.9	1.4	15.8	41.0	52.3
105°	0.9	1.4	9.5	28.0	37.4



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CATALOG NUMBER: HVSL4-8-LD4-1LO-50-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	1.4	1.8	7.7	11.3
115°	1.4	1.4	1.8	5.0	7.2
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°	0.9	1.4	5.4	18.9	25.7
110°	1.4	1.4	3.2	11.7	17.1



(END OF REPORT)