

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: P580770

Luminaire Tested: **HVSL8-4-LD4-2LO-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580770
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-50-UNV-O-EDD
Description: 4 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

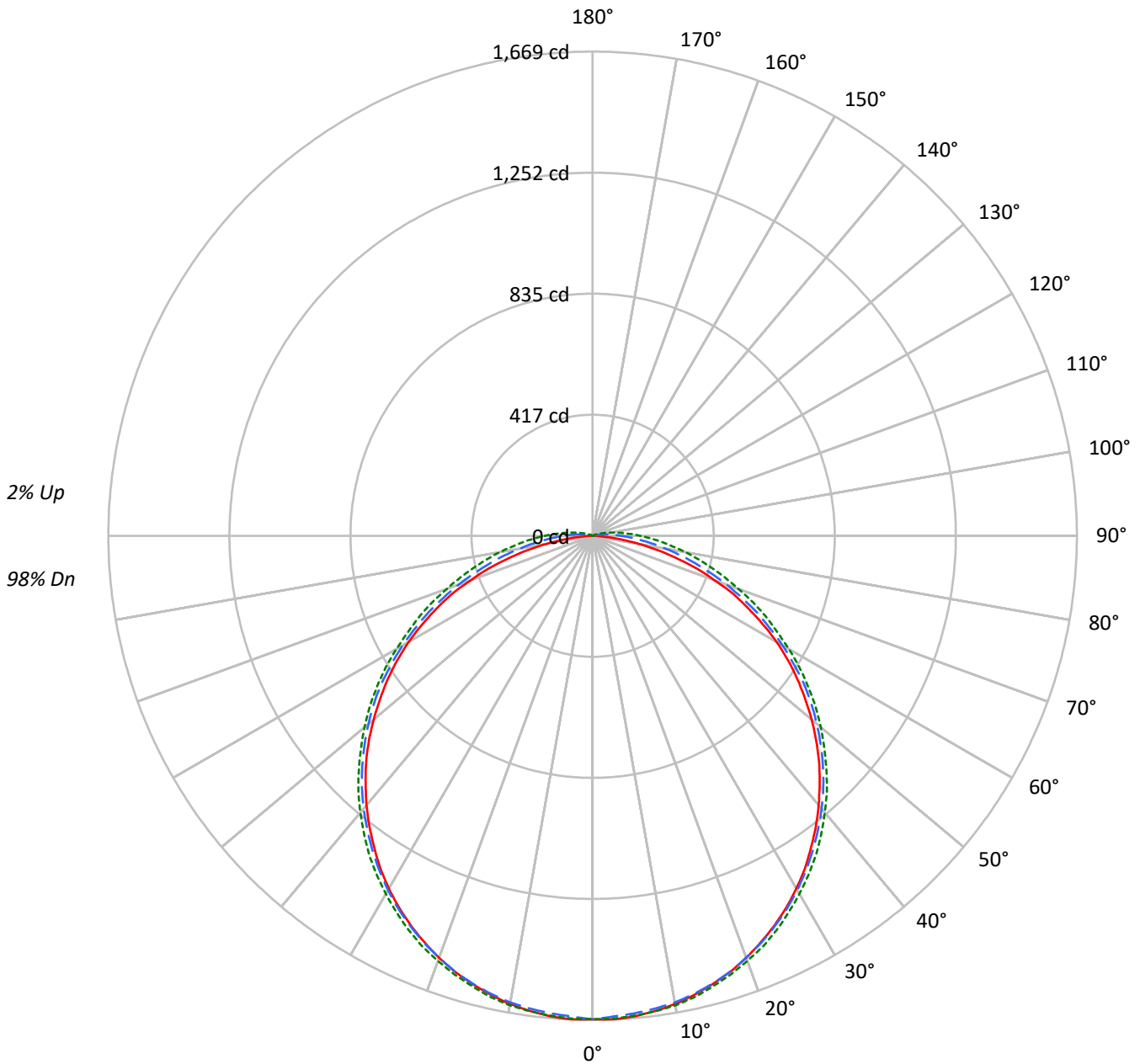
Lumens per Lamp: N/A
Luminaire Lumens: 5039.0 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 47.5
Input Voltage (V): NR
Input Current (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									
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°	6727	6727	6727
5°	6714	6577	6583
10°	6669	6459	6451
15°	6612	6329	6293
20°	6550	6183	6139
25°	6476	6034	5983
30°	6391	5874	5806
35°	6283	5699	5630
40°	6171	5515	5424
45°	6050	5314	5203
50°	5893	5081	4965
55°	5723	4827	4702
60°	5520	4496	4396
65°	5191	4126	4092
70°	4718	3690	3738
75°	4046	3213	3417
80°	3044	2745	3123
85°	1628	2270	2844



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.7	3.1
10°-20°	452.4	9.0
20°-30°	686.4	13.6
30°-40°	830.0	16.5
40°-50°	866.0	17.2
50°-60°	791.8	15.7
60°-70°	617.3	12.2
70°-80°	386.1	7.7
80°-90°	175.4	3.5
90°-100°	58.8	1.2
100°-110°	14.8	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°	1296.5	25.7
0°-40°	2126.5	42.2
0°-60°	3784.4	75.1
0°-90°	4963.2	98.5
90°-120°	75.9	1.5
90°-150°	75.9	1.5
90°-180°	76.0	1.5
0°-180°	5039.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1667	1667	1667	1667	1667	
5°	1663	1660	1652	1660	1660	158
15°	1600	1603	1598	1607	1607	452
25°	1482	1484	1485	1498	1500	683
35°	1312	1318	1324	1337	1342	821
45°	1104	1114	1123	1134	1139	851
55°	862	872	888	901	907	770
65°	592	602	623	648	658	586
75°	300	318	365	408	424	320
85°	52	96	165	218	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1666.6	1666.6	1666.6	1666.6	1666.6
2.5°	1668.6	1666.2	1658.7	1666.2	1665.8
5°	1663.1	1659.9	1652.5	1660.3	1660.3
7.5°	1652.1	1650.9	1644.2	1653.2	1653.2
10°	1639.1	1638.7	1633.2	1643.0	1643.4
12.5°	1621.0	1622.6	1617.5	1626.9	1628.1
15°	1599.8	1602.6	1598.2	1607.3	1606.9
17.5°	1576.6	1578.2	1575.1	1585.3	1584.9
20°	1547.9	1549.9	1547.6	1558.2	1559.3
22.5°	1516.1	1518.9	1518.5	1529.5	1532.6
25°	1482.3	1483.5	1485.1	1497.7	1500.0
27.5°	1445.0	1447.0	1449.7	1461.1	1463.5
30°	1404.2	1407.3	1410.4	1422.2	1425.4
32.5°	1360.9	1364.1	1368.0	1383.3	1384.9
35°	1312.2	1318.1	1323.6	1337.0	1342.5
37.5°	1263.5	1271.0	1276.1	1290.2	1294.5
40°	1212.0	1219.5	1227.7	1242.7	1245.4
42.5°	1158.2	1166.9	1176.7	1190.0	1194.7
45°	1104.0	1113.8	1122.9	1133.9	1139.4
47.5°	1045.5	1055.3	1066.3	1078.8	1082.4
50°	985.0	996.3	1008.1	1019.9	1026.2
52.5°	922.9	936.6	950.0	962.6	968.4
55°	861.6	871.8	887.9	900.9	906.8
57.5°	797.9	806.6	821.1	842.3	845.5
60°	733.1	741.0	755.9	773.2	780.3
62.5°	661.6	672.2	687.9	709.9	716.2
65°	592.1	602.3	623.1	647.9	658.1
67.5°	524.9	528.4	555.1	581.1	597.6
70°	445.5	458.9	489.9	521.7	534.3
72.5°	377.2	390.5	424.7	462.0	477.7
75°	299.8	318.2	364.6	408.2	423.5
77.5°	231.8	252.2	309.6	353.6	371.3
80°	161.9	193.7	256.2	305.7	324.9
82.5°	101.8	141.0	207.8	259.7	276.6
85°	51.9	95.9	164.6	217.7	236.9
87.5°	13.8	62.1	128.1	178.8	198.4
90°	0.4	35.8	97.0	145.8	163.4
92.5°	0.4	20.0	72.3	115.9	134.0
95°	0.4	9.4	50.3	91.1	105.3
97.5°	0.4	3.9	34.6	68.8	82.9
100°	0.4	2.0	22.0	49.9	62.1
102.5°	0.8	1.2	13.8	35.8	45.6
105°	0.8	1.2	8.3	24.4	32.6



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CATALOG NUMBER: HVSL8-4-LD4-2LO-50-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	2.8	10.2	14.9



(END OF REPORT)