

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: P580768

Luminaire Tested: **HVSL8-4-LD4-2LO-40-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580768
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-40-UNV-O-EDD
Description: 4 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

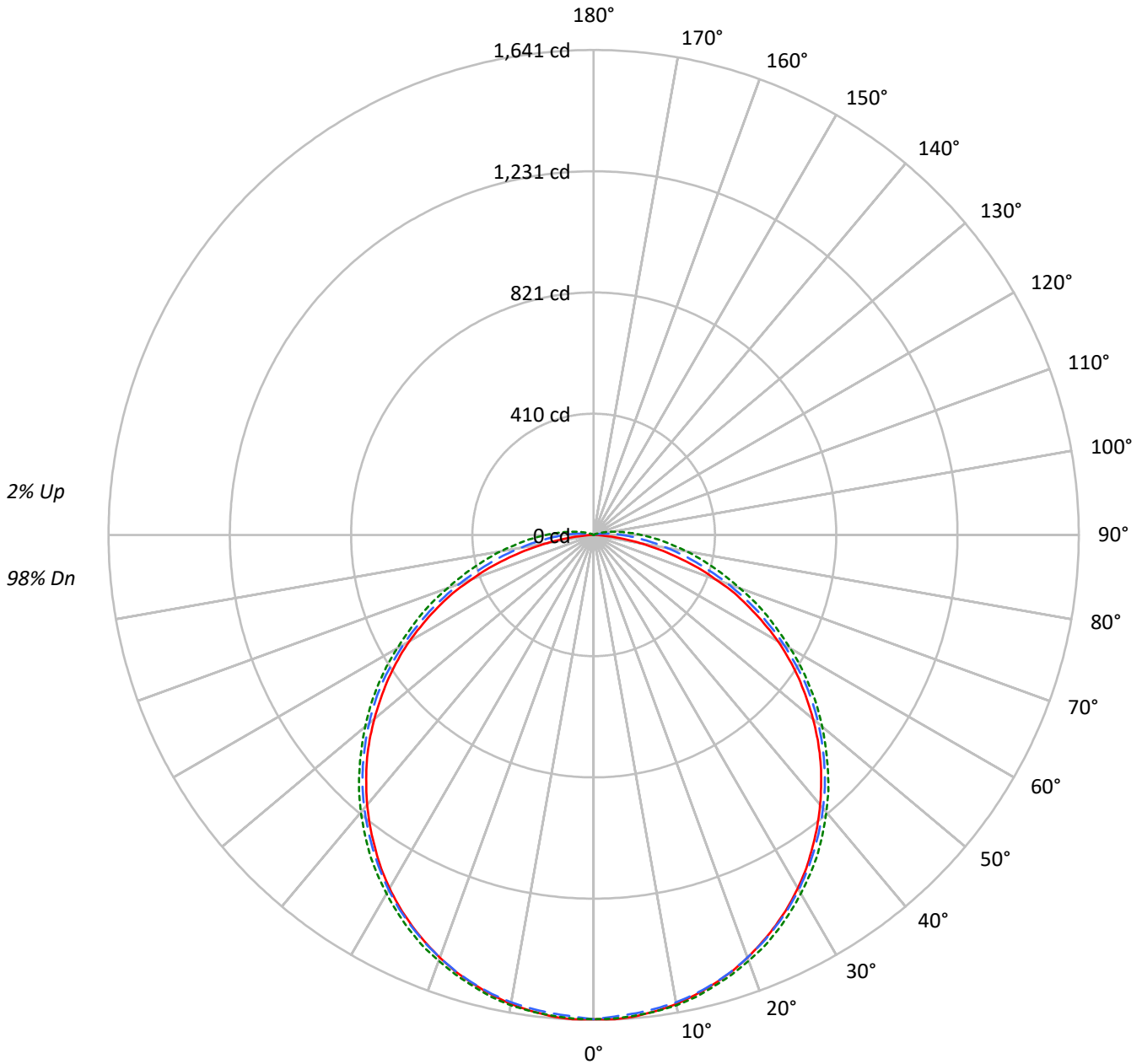
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4955.0 lumens
Efficiency: N/A
Efficacy: 104.3 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 (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°	6615	6615	6615
5°	6602	6467	6473
10°	6558	6352	6344
15°	6501	6224	6188
20°	6441	6080	6037
25°	6368	5933	5883
30°	6284	5776	5709
35°	6178	5604	5536
40°	6068	5423	5334
45°	5949	5225	5116
50°	5794	4997	4882
55°	5627	4746	4624
60°	5428	4421	4322
65°	5104	4057	4023
70°	4639	3629	3676
75°	3979	3159	3360
80°	2993	2699	3071
85°	1600	2233	2797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	3.1
10°-20°	444.8	9.0
20°-30°	675.0	13.6
30°-40°	816.2	16.5
40°-50°	851.6	17.2
50°-60°	778.6	15.7
60°-70°	607.0	12.2
70°-80°	379.7	7.7
80°-90°	172.5	3.5
90°-100°	57.8	1.2
100°-110°	14.5	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°	1274.9	25.7
0°-40°	2091.1	42.2
0°-60°	3721.3	75.1
0°-90°	4880.4	98.5
90°-120°	74.6	1.5
90°-150°	74.6	1.5
90°-180°	75.0	1.5
0°-180°	4955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1639	1639	1639	1639	1639	
5°	1635	1632	1625	1633	1633	155
15°	1573	1576	1572	1580	1580	444
25°	1458	1459	1460	1473	1475	672
35°	1290	1296	1302	1315	1320	808
45°	1086	1095	1104	1115	1120	836
55°	847	857	873	886	892	757
65°	582	592	613	637	647	576
75°	295	313	358	401	416	314
85°	51	94	162	214	233	65
90°	0	35	95	143	161	2
95°	0	9	50	90	104	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1638.8	1638.8	1638.8	1638.8	1638.8
2.5°	1640.7	1638.4	1631.1	1638.4	1638.0
5°	1635.3	1632.2	1624.9	1632.6	1632.6
7.5°	1624.5	1623.4	1616.8	1625.7	1625.7
10°	1611.8	1611.4	1606.0	1615.6	1616.0
12.5°	1594.0	1595.5	1590.5	1599.8	1601.0
15°	1573.1	1575.8	1571.6	1580.5	1580.1
17.5°	1550.3	1551.9	1548.8	1558.8	1558.5
20°	1522.1	1524.1	1521.8	1532.2	1533.3
22.5°	1490.9	1493.6	1493.2	1504.0	1507.1
25°	1457.6	1458.8	1460.3	1472.7	1475.0
27.5°	1420.9	1422.9	1425.6	1436.8	1439.1
30°	1380.7	1383.8	1386.9	1398.5	1401.6
32.5°	1338.2	1341.3	1345.2	1360.3	1361.8
35°	1290.3	1296.1	1301.5	1314.7	1320.1
37.5°	1242.4	1249.8	1254.8	1268.7	1273.0
40°	1191.8	1199.2	1207.3	1222.0	1224.7
42.5°	1138.9	1147.4	1157.1	1170.2	1174.8
45°	1085.6	1095.2	1104.1	1115.0	1120.4
47.5°	1028.0	1037.7	1048.5	1060.9	1064.3
50°	968.5	979.7	991.3	1002.9	1009.1
52.5°	907.5	921.0	934.1	946.5	952.3
55°	847.2	857.3	873.1	885.9	891.7
57.5°	784.6	793.1	807.4	828.3	831.4
60°	720.9	728.6	743.3	760.3	767.3
62.5°	650.6	661.0	676.5	698.1	704.3
65°	582.2	592.2	612.7	637.1	647.1
67.5°	516.1	519.6	545.9	571.4	587.6
70°	438.1	451.2	481.8	513.0	525.4
72.5°	370.9	384.0	417.6	454.3	469.8
75°	294.8	312.9	358.5	401.4	416.5
77.5°	227.9	248.0	304.4	347.7	365.1
80°	159.2	190.5	251.9	300.6	319.5
82.5°	100.1	138.7	204.4	255.4	272.0
85°	51.0	94.3	161.9	214.0	233.0
87.5°	13.5	61.0	125.9	175.8	195.1
90°	0.4	35.2	95.4	143.3	160.7
92.5°	0.4	19.7	71.1	114.0	131.7
95°	0.4	9.3	49.5	89.6	103.5
97.5°	0.4	3.9	34.0	67.6	81.5
100°	0.4	1.9	21.6	49.1	61.0
102.5°	0.8	1.2	13.5	35.2	44.8
105°	0.8	1.2	8.1	24.0	32.1



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CATALOG NUMBER: HVSL8-4-LD4-2LO-40-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	1.2	1.5	6.6	9.7
115°	1.2	1.2	1.5	4.2	6.2
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°	0.8	1.2	4.6	16.2	22.0
110°	1.2	1.2	2.7	10.0	14.7



(END OF REPORT)