

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: P580219

Luminaire Tested: **HVSL12-4-LD4-2STD-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580219
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: HVSL12-4-LD4-2STD-30-UNV-O-EDD-90
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

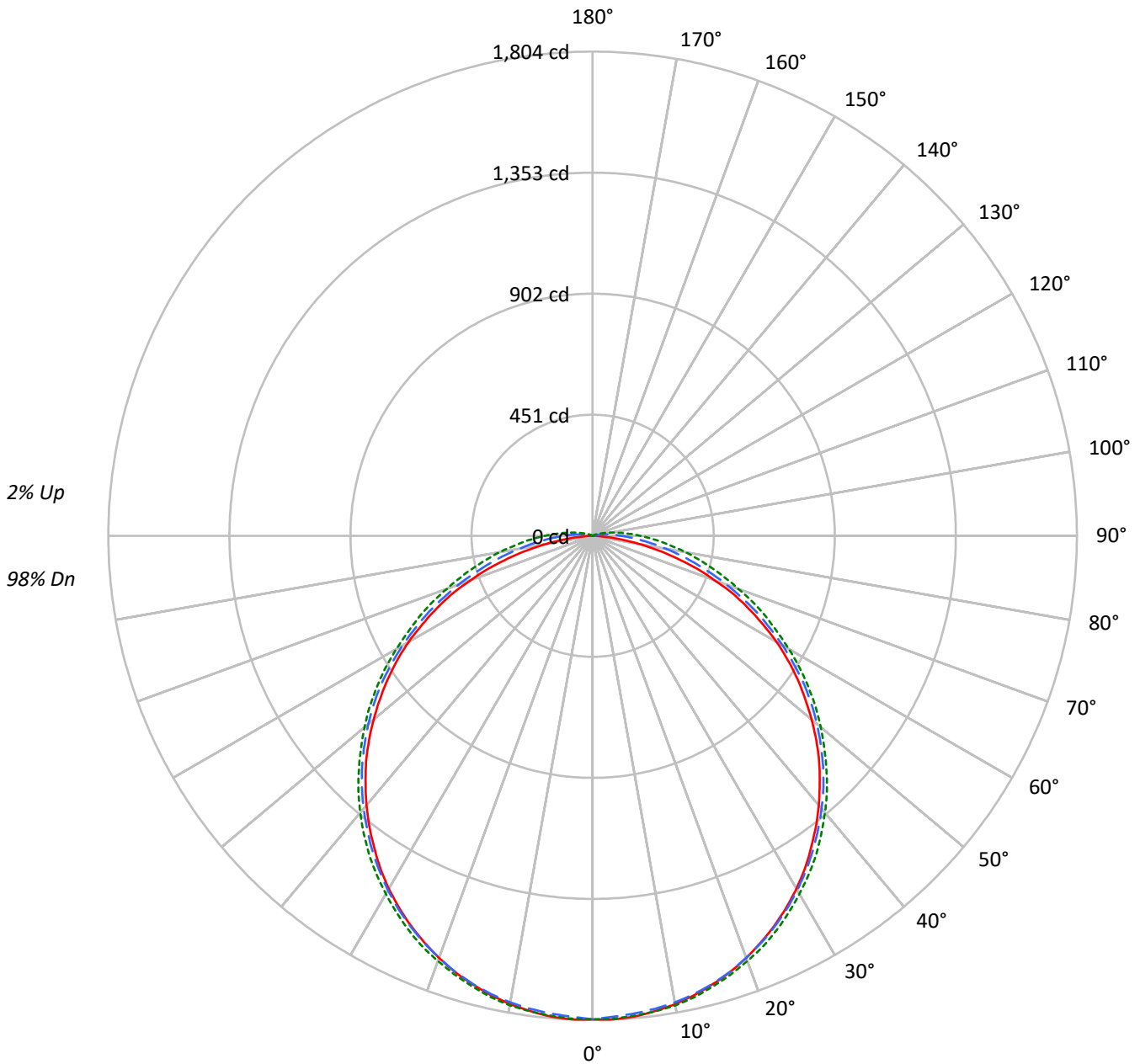
Lumens per Lamp: N/A
Luminaire Lumens: 5448.0 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 69.2
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									
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°	4849	4849	4849
5°	4839	4765	4779
10°	4807	4703	4716
15°	4766	4631	4633
20°	4721	4548	4552
25°	4668	4461	4468
30°	4606	4367	4368
35°	4528	4261	4270
40°	4448	4150	4150
45°	4361	4027	4018
50°	4247	3882	3875
55°	4125	3721	3715
60°	3979	3504	3523
65°	3741	3260	3337
70°	3401	2967	3117
75°	2916	2644	2935
80°	2193	2338	2798
85°	1173	2048	2722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.5	3.1
10°-20°	489.1	9.0
20°-30°	742.1	13.6
30°-40°	897.4	16.5
40°-50°	936.3	17.2
50°-60°	856.1	15.7
60°-70°	667.4	12.2
70°-80°	417.5	7.7
80°-90°	189.6	3.5
90°-100°	63.5	1.2
100°-110°	16.0	0.3
110°-120°	2.5	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°	1401.7	25.7
0°-40°	2299.1	42.2
0°-60°	4091.5	75.1
0°-90°	5366.0	98.5
90°-120°	82.0	1.5
90°-150°	82.0	1.5
90°-180°	82.0	1.5
0°-180°	5448.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1802	1802	1802	1802	1802	
5°	1798	1795	1787	1795	1795	171
15°	1730	1733	1728	1738	1737	488
25°	1603	1604	1606	1619	1622	738
35°	1419	1425	1431	1446	1451	888
45°	1194	1204	1214	1226	1232	920
55°	932	943	960	974	980	832
65°	640	651	674	700	712	633
75°	324	344	394	441	458	345
85°	56	104	178	235	256	71
90°	0	39	105	158	177	2
95°	0	10	54	98	114	0
105°	1	1	9	26	35	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°	1801.9	1801.9	1801.9	1801.9	1801.9
2.5°	1804.0	1801.4	1793.4	1801.4	1801.0
5°	1798.0	1794.6	1786.6	1795.1	1795.1
7.5°	1786.2	1784.9	1777.7	1787.4	1787.4
10°	1772.1	1771.7	1765.8	1776.4	1776.8
12.5°	1752.6	1754.3	1748.8	1759.0	1760.2
15°	1729.7	1732.6	1728.0	1737.7	1737.3
17.5°	1704.6	1706.3	1702.9	1713.9	1713.5
20°	1673.6	1675.7	1673.2	1684.6	1685.9
22.5°	1639.2	1642.2	1641.7	1653.6	1657.0
25°	1602.7	1603.9	1605.6	1619.2	1621.8
27.5°	1562.3	1564.4	1567.4	1579.7	1582.3
30°	1518.1	1521.5	1524.9	1537.7	1541.1
32.5°	1471.4	1474.8	1479.0	1495.6	1497.3
35°	1418.7	1425.1	1431.0	1445.5	1451.4
37.5°	1366.1	1374.1	1379.6	1394.9	1399.6
40°	1310.4	1318.5	1327.4	1343.5	1346.5
42.5°	1252.2	1261.6	1272.2	1286.6	1291.7
45°	1193.6	1204.2	1214.0	1225.9	1231.8
47.5°	1130.3	1140.9	1152.8	1166.4	1170.2
50°	1064.9	1077.2	1090.0	1102.7	1109.5
52.5°	997.8	1012.6	1027.1	1040.7	1047.1
55°	931.5	942.6	960.0	974.0	980.4
57.5°	862.7	872.1	887.8	910.7	914.1
60°	792.6	801.1	817.3	835.9	843.6
62.5°	715.3	726.8	743.8	767.6	774.4
65°	640.1	651.2	673.7	700.4	711.5
67.5°	567.5	571.3	600.2	628.2	646.1
70°	481.7	496.1	529.7	564.1	577.7
72.5°	407.8	422.2	459.2	499.5	516.5
75°	324.1	344.1	394.2	441.3	457.9
77.5°	250.6	272.7	334.7	382.3	401.4
80°	175.0	209.4	276.9	330.5	351.3
82.5°	110.0	152.5	224.7	280.8	299.0
85°	56.1	103.6	178.0	235.3	256.1
87.5°	14.9	67.1	138.5	193.3	214.5
90°	0.4	38.7	104.9	157.6	176.7
92.5°	0.4	21.7	78.2	125.3	144.8
95°	0.4	10.2	54.4	98.5	113.8
97.5°	0.4	4.2	37.4	74.3	89.6
100°	0.4	2.1	23.8	53.9	67.1
102.5°	0.8	1.3	14.9	38.7	49.3
105°	0.8	1.3	8.9	26.3	35.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	1.3	1.7	7.2	10.6
115°	1.3	1.3	1.7	4.7	6.8
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°	0.8	1.3	5.1	17.8	24.2
110°	1.3	1.3	3.0	11.0	16.1



(END OF REPORT)