

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: P580171

Luminaire Tested: **HVSL12-2-LD4-3STD-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580171
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: HVSL12-2-LD4-3STD-30-UNV-O-EDD-90
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

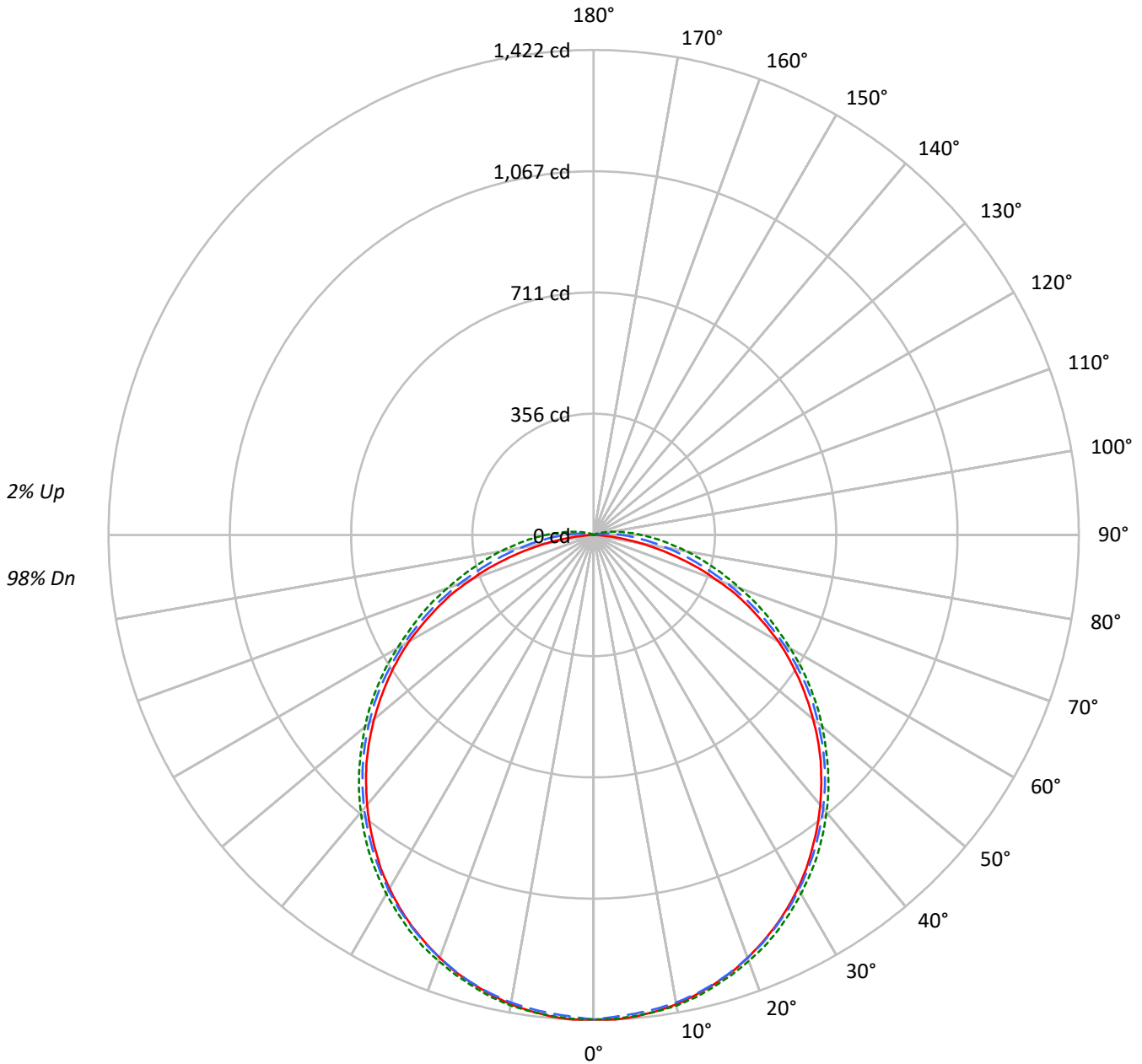
Lumens per Lamp: N/A
Luminaire Lumens: 4296.0 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 50.6
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°	7647	7647	7647
5°	7604	7495	7537
10°	7526	7379	7438
15°	7433	7249	7306
20°	7336	7100	7178
25°	7224	6946	7046
30°	7098	6781	6889
35°	6945	6597	6734
40°	6785	6404	6544
45°	6613	6192	6337
50°	6395	5944	6111
55°	6159	5671	5859
60°	5879	5310	5556
65°	5454	4905	5263
70°	4863	4424	4916
75°	4054	3894	4629
80°	2904	3380	4413
85°	1398	2868	4293



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	3.1
10°-20°	385.7	9.0
20°-30°	585.2	13.6
30°-40°	707.6	16.5
40°-50°	738.4	17.2
50°-60°	675.1	15.7
60°-70°	526.2	12.2
70°-80°	329.2	7.7
80°-90°	149.5	3.5
90°-100°	50.1	1.2
100°-110°	12.6	0.3
110°-120°	2.0	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°	1105.4	25.7
0°-40°	1813.0	42.2
0°-60°	3226.4	75.1
0°-90°	4231.3	98.5
90°-120°	64.7	1.5
90°-150°	64.7	1.5
90°-180°	65.0	1.5
0°-180°	4296.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1421	1421	1421	1421	1421	
5°	1418	1415	1409	1416	1416	135
15°	1364	1366	1363	1370	1370	385
25°	1264	1265	1266	1277	1279	582
35°	1119	1124	1128	1140	1144	700
45°	941	950	957	967	971	725
55°	734	743	757	768	773	656
65°	505	514	531	552	561	499
75°	256	271	311	348	361	272
85°	44	82	140	186	202	56
90°	0	30	83	124	139	2
95°	0	8	43	78	90	0
105°	1	1	7	21	28	1
115°	1	1	1	4	5	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°	1420.9	1420.9	1420.9	1420.9	1420.9
2.5°	1422.5	1420.5	1414.2	1420.5	1420.2
5°	1417.8	1415.2	1408.8	1415.5	1415.5
7.5°	1408.5	1407.5	1401.8	1409.5	1409.5
10°	1397.4	1397.1	1392.4	1400.8	1401.1
12.5°	1382.0	1383.3	1379.0	1387.0	1388.0
15°	1363.9	1366.3	1362.6	1370.3	1369.9
17.5°	1344.2	1345.5	1342.8	1351.5	1351.2
20°	1319.7	1321.4	1319.4	1328.4	1329.4
22.5°	1292.6	1294.9	1294.6	1304.0	1306.6
25°	1263.8	1264.8	1266.1	1276.8	1278.8
27.5°	1231.9	1233.6	1236.0	1245.7	1247.7
30°	1197.1	1199.8	1202.5	1212.5	1215.2
32.5°	1160.3	1162.9	1166.3	1179.4	1180.7
35°	1118.7	1123.8	1128.4	1139.8	1144.5
37.5°	1077.2	1083.6	1087.9	1100.0	1103.7
40°	1033.3	1039.7	1046.7	1059.4	1061.8
42.5°	987.4	994.8	1003.2	1014.6	1018.6
45°	941.2	949.6	957.3	966.7	971.4
47.5°	891.3	899.7	909.1	919.8	922.8
50°	839.7	849.4	859.5	869.5	874.9
52.5°	786.8	798.5	809.9	820.6	825.7
55°	734.5	743.3	757.0	768.0	773.1
57.5°	680.3	687.7	700.0	718.1	720.8
60°	625.0	631.7	644.4	659.2	665.2
62.5°	564.1	573.1	586.5	605.3	610.6
65°	504.8	513.5	531.2	552.3	561.0
67.5°	447.5	450.5	473.3	495.4	509.5
70°	379.8	391.2	417.7	444.8	455.5
72.5°	321.6	332.9	362.1	393.9	407.3
75°	255.6	271.3	310.8	348.0	361.1
77.5°	197.6	215.0	263.9	301.5	316.5
80°	138.0	165.1	218.4	260.6	277.0
82.5°	86.8	120.2	177.2	221.4	235.8
85°	44.2	81.7	140.3	185.6	202.0
87.5°	11.7	52.9	109.2	152.4	169.1
90°	0.3	30.5	82.7	124.3	139.3
92.5°	0.3	17.1	61.6	98.8	114.2
95°	0.3	8.0	42.9	77.7	89.8
97.5°	0.3	3.3	29.5	58.6	70.7
100°	0.3	1.7	18.8	42.5	52.9
102.5°	0.7	1.0	11.7	30.5	38.9
105°	0.7	1.0	7.0	20.8	27.8



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CATALOG NUMBER: HVSL12-2-LD4-3STD-30-UNV-O-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	1.0	1.3	5.7	8.4
115°	1.0	1.0	1.3	3.7	5.4
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°	0.7	1.0	4.0	14.1	19.1
110°	1.0	1.0	2.3	8.7	12.7



(END OF REPORT)