

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: P580159

Luminaire Tested: **HVSL12-2-LD4-3HI-40-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580159
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-LD4-3HI-40-UNV-O-EDD-90
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

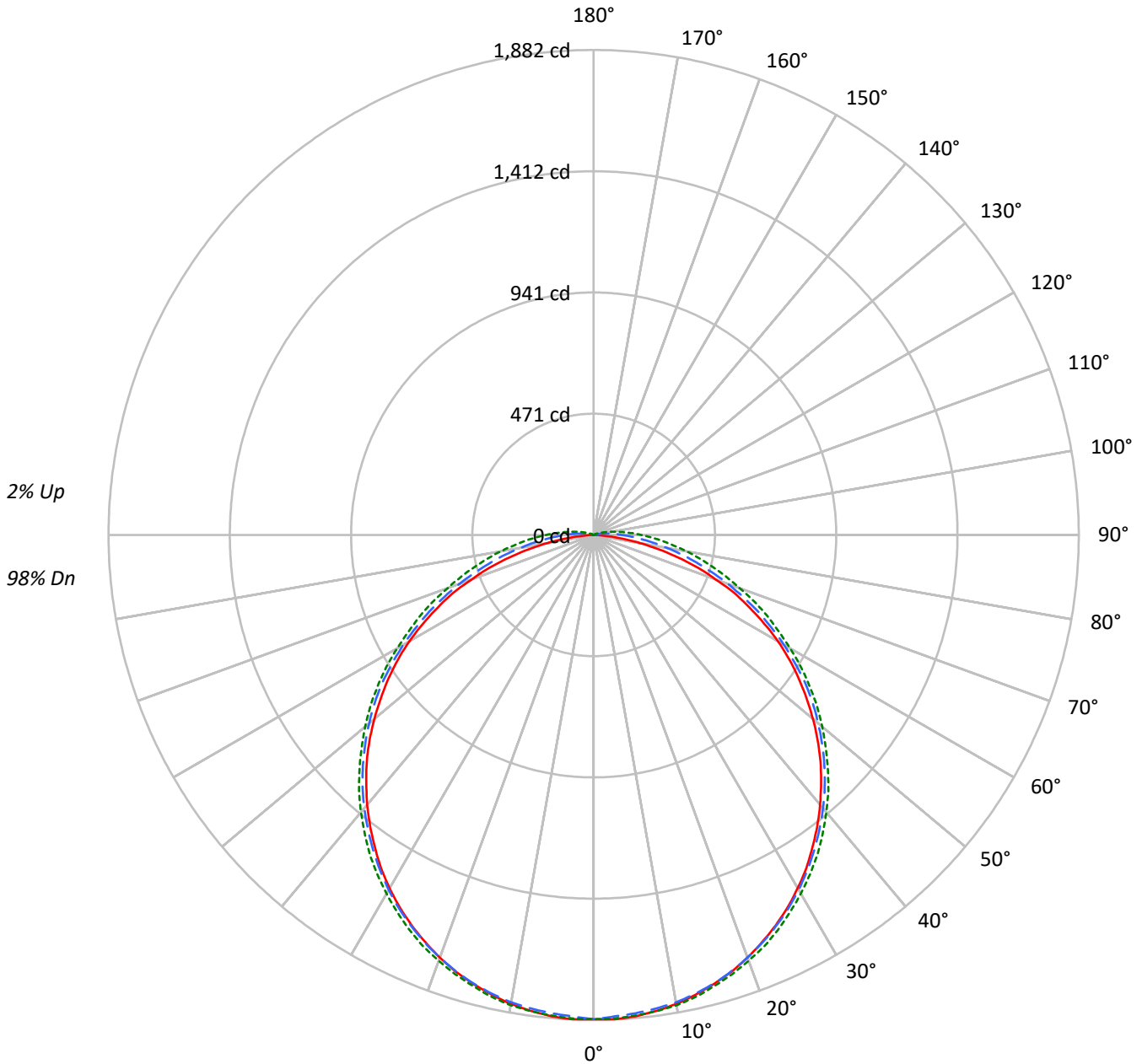
Lumens per Lamp: N/A
Luminaire Lumens: 5682.0 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 66.7
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°	10114	10114	10114
5°	10058	9913	9969
10°	9955	9760	9838
15°	9832	9587	9664
20°	9703	9390	9494
25°	9555	9187	9320
30°	9388	8968	9112
35°	9186	8726	8906
40°	8974	8470	8656
45°	8746	8189	8381
50°	8459	7862	8083
55°	8146	7500	7749
60°	7776	7024	7348
65°	7213	6488	6961
70°	6433	5850	6503
75°	5361	5150	6122
80°	3841	4469	5837
85°	1850	3794	5677



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.8	3.1
10°-20°	510.1	9.0
20°-30°	774.0	13.6
30°-40°	935.9	16.5
40°-50°	976.5	17.2
50°-60°	892.9	15.7
60°-70°	696.0	12.2
70°-80°	435.4	7.7
80°-90°	197.7	3.5
90°-100°	66.3	1.2
100°-110°	16.6	0.3
110°-120°	2.6	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°	1462.0	25.7
0°-40°	2397.9	42.2
0°-60°	4267.3	75.1
0°-90°	5596.4	98.5
90°-120°	85.5	1.5
90°-150°	85.5	1.5
90°-180°	86.0	1.5
0°-180°	5682.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1879	1879	1879	1879	1879	
5°	1875	1872	1863	1872	1872	178
15°	1804	1807	1802	1812	1812	509
25°	1672	1673	1675	1689	1691	770
35°	1480	1486	1492	1508	1514	926
45°	1245	1256	1266	1278	1285	959
55°	972	983	1001	1016	1022	868
65°	668	679	703	730	742	661
75°	338	359	411	460	478	360
85°	58	108	186	245	267	74
90°	0	40	109	164	184	2
95°	0	11	57	103	119	0
105°	1	1	9	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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CATALOG NUMBER: HVSL12-2-LD4-3HI-40-UNV-O-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1879.3	1879.3	1879.3	1879.3	1879.3
2.5°	1881.5	1878.8	1870.4	1878.8	1878.4
5°	1875.3	1871.7	1863.3	1872.2	1872.2
7.5°	1862.9	1861.5	1854.0	1864.2	1864.2
10°	1848.3	1847.8	1841.6	1852.7	1853.1
12.5°	1827.9	1829.6	1823.9	1834.5	1835.8
15°	1804.0	1807.1	1802.2	1812.4	1811.9
17.5°	1777.8	1779.6	1776.0	1787.6	1787.1
20°	1745.5	1747.7	1745.0	1757.0	1758.3
22.5°	1709.6	1712.7	1712.2	1724.7	1728.2
25°	1671.5	1672.8	1674.6	1688.8	1691.4
27.5°	1629.4	1631.6	1634.7	1647.6	1650.2
30°	1583.3	1586.9	1590.4	1603.7	1607.3
32.5°	1534.6	1538.1	1542.6	1559.8	1561.6
35°	1479.7	1486.3	1492.5	1507.6	1513.8
37.5°	1424.7	1433.1	1438.9	1454.9	1459.7
40°	1366.7	1375.1	1384.4	1401.3	1404.4
42.5°	1306.0	1315.7	1326.8	1341.9	1347.2
45°	1244.9	1255.9	1266.1	1278.5	1284.7
47.5°	1178.9	1189.9	1202.3	1216.5	1220.5
50°	1110.6	1123.5	1136.8	1150.1	1157.2
52.5°	1040.6	1056.1	1071.2	1085.4	1092.0
55°	971.5	983.0	1001.2	1015.8	1022.5
57.5°	899.8	909.5	925.9	949.8	953.4
60°	826.7	835.5	852.4	871.9	879.8
62.5°	746.0	758.0	775.7	800.5	807.6
65°	667.6	679.1	702.6	730.5	742.0
67.5°	591.9	595.9	626.0	655.2	673.8
70°	502.4	517.4	552.4	588.3	602.5
72.5°	425.3	440.4	478.9	521.0	538.7
75°	338.0	358.8	411.1	460.3	477.6
77.5°	261.4	284.4	349.1	398.7	418.6
80°	182.5	218.4	288.8	344.7	366.4
82.5°	114.7	159.0	234.4	292.8	311.9
85°	58.5	108.1	185.6	245.4	267.1
87.5°	15.5	70.0	144.4	201.6	223.7
90°	0.4	40.3	109.4	164.4	184.3
92.5°	0.4	22.6	81.5	130.7	151.1
95°	0.4	10.6	56.7	102.8	118.7
97.5°	0.4	4.4	39.0	77.5	93.5
100°	0.4	2.2	24.8	56.3	70.0
102.5°	0.9	1.3	15.5	40.3	51.4
105°	0.9	1.3	9.3	27.5	36.8



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CATALOG NUMBER: HVSL12-2-LD4-3HI-40-UNV-O-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	1.3	1.8	7.5	11.1
115°	1.3	1.3	1.8	4.9	7.1
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	1.3	5.3	18.6	25.3
110°	1.3	1.3	3.1	11.5	16.8



(END OF REPORT)