

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: P580259

Luminaire Tested: **HVSL12-8-LD4-1LO-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580259
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: HVSL12-8-LD4-1LO-30-UNV-O-EDD-90
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

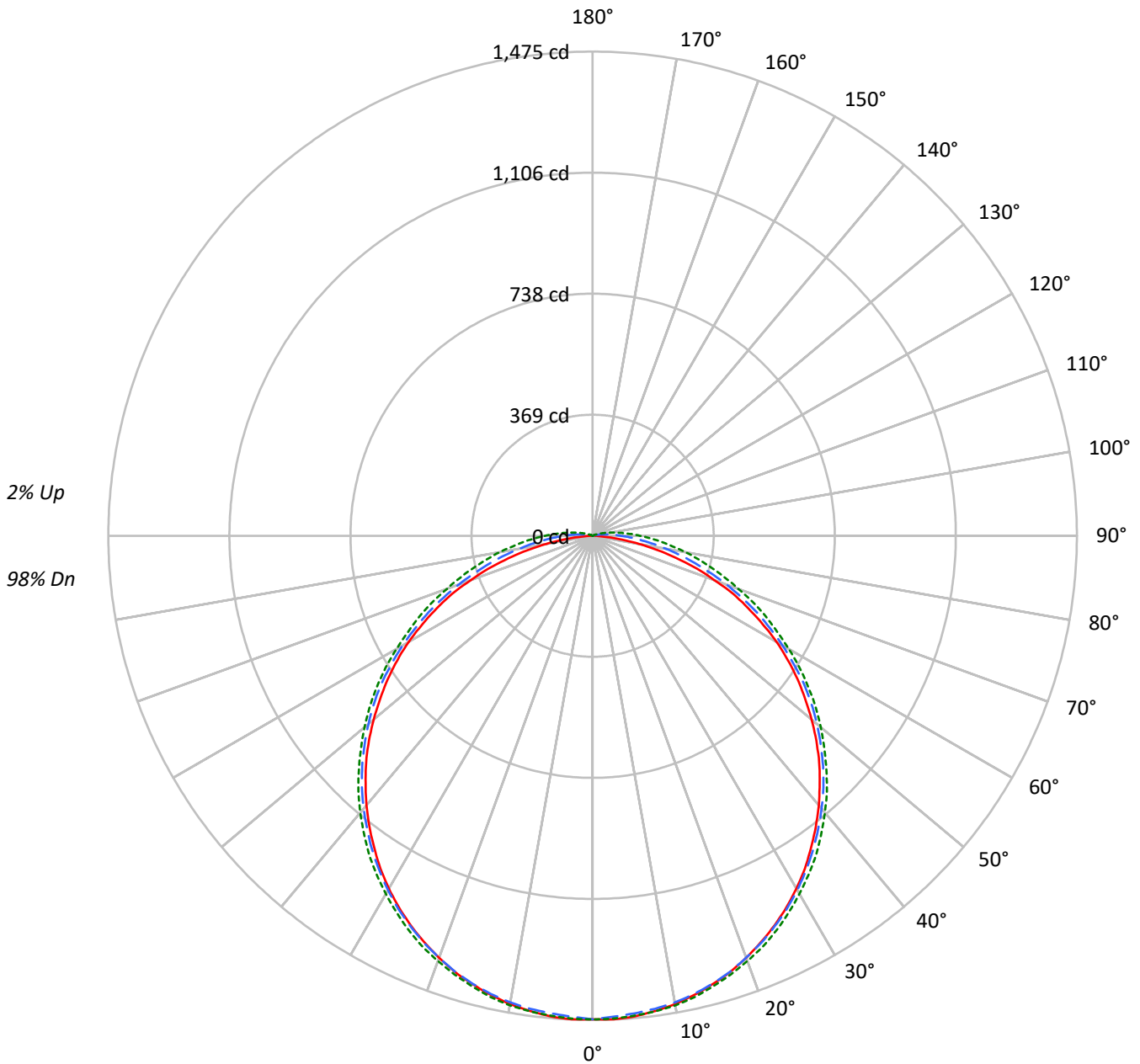
Lumens per Lamp: N/A
Luminaire Lumens: 4454.0 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 48.7
Input Voltage (V): NR
Input Current (A_{in}): 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				20				20
RC	80				70				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°	1982	1982	1982
5°	1982	1950	1954
10°	1972	1927	1928
15°	1959	1900	1894
20°	1944	1868	1861
25°	1926	1835	1826
30°	1905	1799	1786
35°	1878	1758	1745
40°	1849	1715	1696
45°	1819	1667	1643
50°	1778	1611	1584
55°	1735	1548	1519
60°	1683	1462	1440
65°	1595	1365	1364
70°	1465	1249	1274
75°	1278	1121	1200
80°	992	1001	1144
85°	571	893	1113



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.4	3.1
10°-20°	399.9	9.0
20°-30°	606.7	13.6
30°-40°	733.6	16.5
40°-50°	765.5	17.2
50°-60°	699.9	15.7
60°-70°	545.6	12.2
70°-80°	341.3	7.7
80°-90°	155.0	3.5
90°-100°	52.0	1.2
100°-110°	13.0	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°	1146.0	25.7
0°-40°	1879.6	42.2
0°-60°	3345.0	75.1
0°-90°	4386.9	98.5
90°-120°	67.0	1.5
90°-150°	67.0	1.5
90°-180°	67.0	1.5
0°-180°	4454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1473	1473	1473	1473	1473	
5°	1470	1467	1461	1468	1468	140
15°	1414	1416	1413	1421	1420	399
25°	1310	1311	1313	1324	1326	604
35°	1160	1165	1170	1182	1187	726
45°	976	984	992	1002	1007	752
55°	762	771	785	796	802	680
65°	523	532	551	573	582	518
75°	265	281	322	361	374	282
85°	46	85	146	192	209	58
90°	0	32	86	129	144	2
95°	0	8	44	81	93	0
105°	1	1	7	22	29	1
115°	1	1	1	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°	1473.1	1473.1	1473.1	1473.1	1473.1
2.5°	1474.9	1472.8	1466.2	1472.8	1472.4
5°	1470.0	1467.2	1460.6	1467.6	1467.6
7.5°	1460.3	1459.2	1453.3	1461.3	1461.3
10°	1448.8	1448.5	1443.6	1452.3	1452.6
12.5°	1432.8	1434.2	1429.7	1438.0	1439.1
15°	1414.1	1416.5	1412.7	1420.7	1420.3
17.5°	1393.6	1395.0	1392.2	1401.2	1400.9
20°	1368.2	1370.0	1367.9	1377.3	1378.3
22.5°	1340.1	1342.5	1342.2	1351.9	1354.7
25°	1310.2	1311.3	1312.7	1323.8	1325.9
27.5°	1277.3	1279.0	1281.4	1291.5	1293.6
30°	1241.1	1243.9	1246.7	1257.1	1259.9
32.5°	1202.9	1205.7	1209.2	1222.7	1224.1
35°	1159.9	1165.1	1169.9	1181.8	1186.6
37.5°	1116.8	1123.4	1127.9	1140.4	1144.3
40°	1071.3	1077.9	1085.2	1098.4	1100.8
42.5°	1023.7	1031.4	1040.1	1051.9	1056.0
45°	975.8	984.5	992.5	1002.2	1007.1
47.5°	924.1	932.8	942.5	953.6	956.7
50°	870.6	880.7	891.1	901.5	907.1
52.5°	815.7	827.9	839.7	850.8	856.0
55°	761.6	770.6	784.8	796.3	801.5
57.5°	705.3	712.9	725.8	744.5	747.3
60°	648.0	654.9	668.1	683.4	689.7
62.5°	584.8	594.2	608.1	627.5	633.1
65°	523.3	532.4	550.8	572.6	581.7
67.5°	464.0	467.1	490.7	513.6	528.2
70°	393.8	405.6	433.0	461.2	472.3
72.5°	333.4	345.2	375.4	408.4	422.3
75°	265.0	281.3	322.3	360.8	374.4
77.5°	204.9	222.9	273.6	312.5	328.2
80°	143.1	171.2	226.4	270.2	287.2
82.5°	89.9	124.7	183.7	229.5	244.5
85°	45.8	84.7	145.5	192.4	209.4
87.5°	12.2	54.9	113.2	158.0	175.4
90°	0.3	31.6	85.8	128.8	144.5
92.5°	0.3	17.7	63.9	102.4	118.4
95°	0.3	8.3	44.5	80.6	93.1
97.5°	0.3	3.5	30.6	60.8	73.3
100°	0.3	1.7	19.4	44.1	54.9
102.5°	0.7	1.0	12.2	31.6	40.3
105°	0.7	1.0	7.3	21.5	28.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	1.0	1.4	5.9	8.7
115°	1.0	1.0	1.4	3.8	5.6
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	4.2	14.6	19.8
110°	1.0	1.0	2.4	9.0	13.2



(END OF REPORT)