

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: P580261

Luminaire Tested: **HVSL12-8-LD4-1LO-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580261
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-35-UNV-O-EDD-90
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

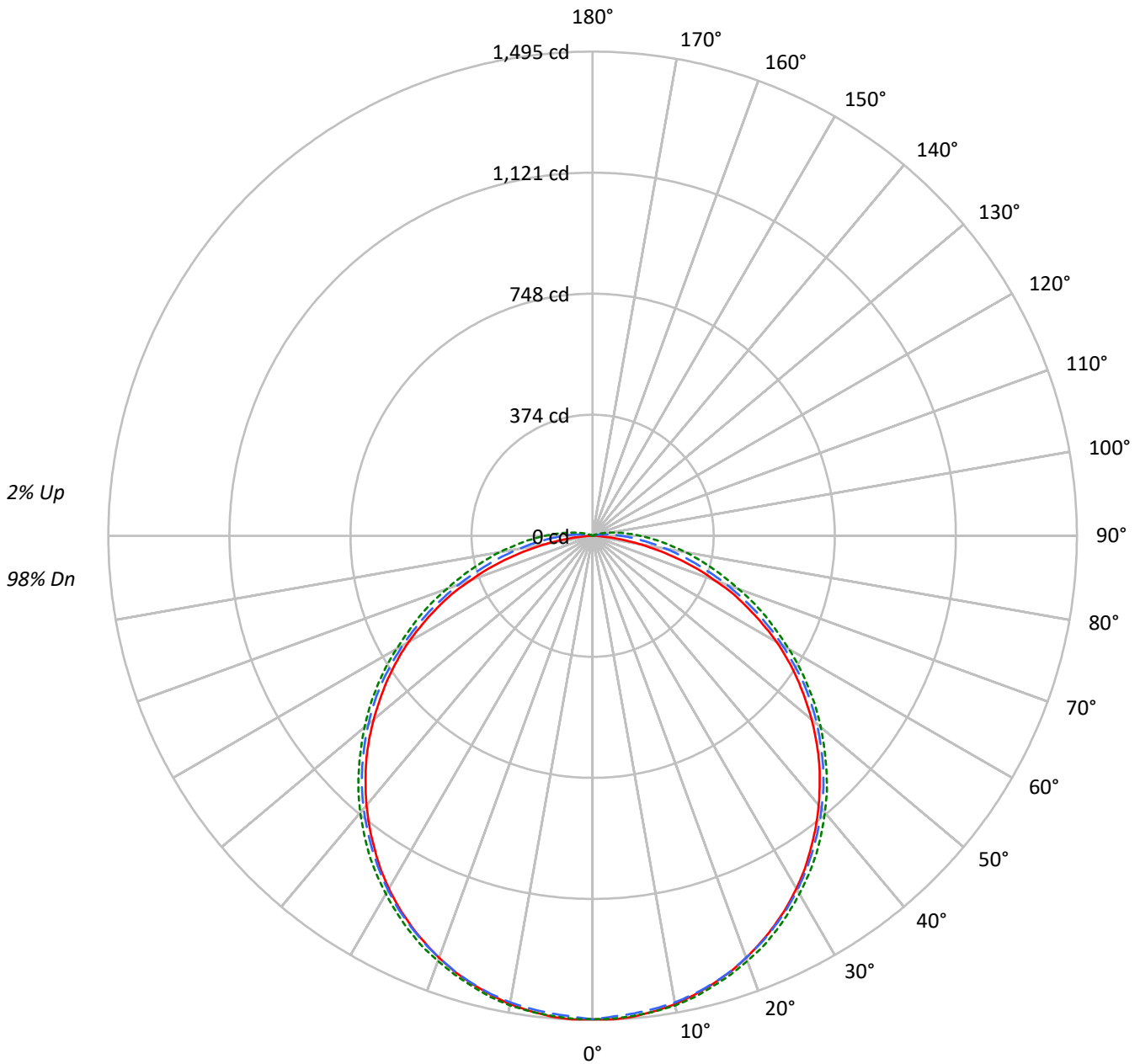
Lumens per Lamp: N/A
Luminaire Lumens: 4514.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 48.7
Input Voltage (V): NR
Input Current (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°	2009	2009	2009
5°	2009	1976	1980
10°	1999	1953	1954
15°	1985	1926	1919
20°	1971	1894	1886
25°	1952	1860	1851
30°	1931	1823	1810
35°	1903	1782	1769
40°	1874	1738	1719
45°	1843	1690	1665
50°	1802	1632	1605
55°	1758	1569	1539
60°	1706	1482	1460
65°	1616	1384	1383
70°	1485	1266	1291
75°	1295	1136	1216
80°	1005	1015	1159
85°	580	905	1128



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	3.1
10°-20°	405.3	9.0
20°-30°	614.9	13.6
30°-40°	743.5	16.5
40°-50°	775.8	17.2
50°-60°	709.3	15.7
60°-70°	553.0	12.2
70°-80°	345.9	7.7
80°-90°	157.1	3.5
90°-100°	52.7	1.2
100°-110°	13.2	0.3
110°-120°	2.1	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°	1161.4	25.7
0°-40°	1905.0	42.2
0°-60°	3390.1	75.1
0°-90°	4446.0	98.5
90°-120°	68.0	1.5
90°-150°	68.0	1.5
90°-180°	68.0	1.5
0°-180°	4514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1493	1493	1493	1493	1493	
5°	1490	1487	1480	1487	1487	141
15°	1433	1436	1432	1440	1440	405
25°	1328	1329	1330	1342	1344	612
35°	1176	1181	1186	1198	1203	736
45°	989	998	1006	1016	1021	762
55°	772	781	795	807	812	690
65°	530	540	558	580	590	525
75°	268	285	327	366	379	286
85°	46	86	148	195	212	59
90°	0	32	87	131	146	2
95°	0	8	45	82	94	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1493.0	1493.0	1493.0	1493.0	1493.0
2.5°	1494.7	1492.6	1485.9	1492.6	1492.3
5°	1489.8	1487.0	1480.3	1487.3	1487.3
7.5°	1479.9	1478.9	1472.9	1481.0	1481.0
10°	1468.3	1468.0	1463.0	1471.8	1472.2
12.5°	1452.1	1453.5	1449.0	1457.4	1458.5
15°	1433.1	1435.6	1431.7	1439.8	1439.5
17.5°	1412.4	1413.8	1411.0	1420.1	1419.8
20°	1386.7	1388.4	1386.3	1395.8	1396.9
22.5°	1358.2	1360.6	1360.3	1370.1	1372.9
25°	1327.9	1329.0	1330.4	1341.6	1343.7
27.5°	1294.5	1296.2	1298.7	1308.9	1311.0
30°	1257.9	1260.7	1263.5	1274.0	1276.9
32.5°	1219.1	1222.0	1225.5	1239.2	1240.6
35°	1175.5	1180.8	1185.7	1197.7	1202.6
37.5°	1131.9	1138.5	1143.1	1155.8	1159.7
40°	1085.8	1092.4	1099.8	1113.2	1115.7
42.5°	1037.5	1045.3	1054.1	1066.0	1070.3
45°	989.0	997.8	1005.9	1015.7	1020.6
47.5°	936.5	945.3	955.2	966.4	969.6
50°	882.3	892.5	903.1	913.7	919.3
52.5°	826.7	839.0	851.0	862.3	867.5
55°	771.8	781.0	795.4	807.0	812.3
57.5°	714.8	722.5	735.6	754.6	757.4
60°	656.7	663.8	677.1	692.6	699.0
62.5°	592.7	602.2	616.3	636.0	641.6
65°	530.4	539.5	558.2	580.4	589.5
67.5°	470.2	473.4	497.3	520.5	535.3
70°	399.1	411.1	438.9	467.4	478.6
72.5°	337.9	349.8	380.5	413.9	428.0
75°	268.5	285.1	326.6	365.7	379.4
77.5°	207.6	225.9	277.3	316.8	332.6
80°	145.0	173.5	229.5	273.8	291.1
82.5°	91.2	126.3	186.2	232.6	247.8
85°	46.5	85.9	147.5	195.0	212.2
87.5°	12.3	55.6	114.7	160.1	177.7
90°	0.4	32.0	86.9	130.6	146.4
92.5°	0.4	17.9	64.8	103.8	120.0
95°	0.4	8.4	45.0	81.7	94.3
97.5°	0.4	3.5	31.0	61.6	74.3
100°	0.4	1.8	19.7	44.7	55.6
102.5°	0.7	1.1	12.3	32.0	40.8
105°	0.7	1.1	7.4	21.8	29.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	1.1	1.4	6.0	8.8
115°	1.1	1.1	1.4	3.9	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	1.1	4.2	14.8	20.1
110°	1.1	1.1	2.5	9.2	13.4



(END OF REPORT)