

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: P580264

Luminaire Tested: **HVSL12-8-LD4-1LO-40-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580264
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-40-UNV-O-EDD
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

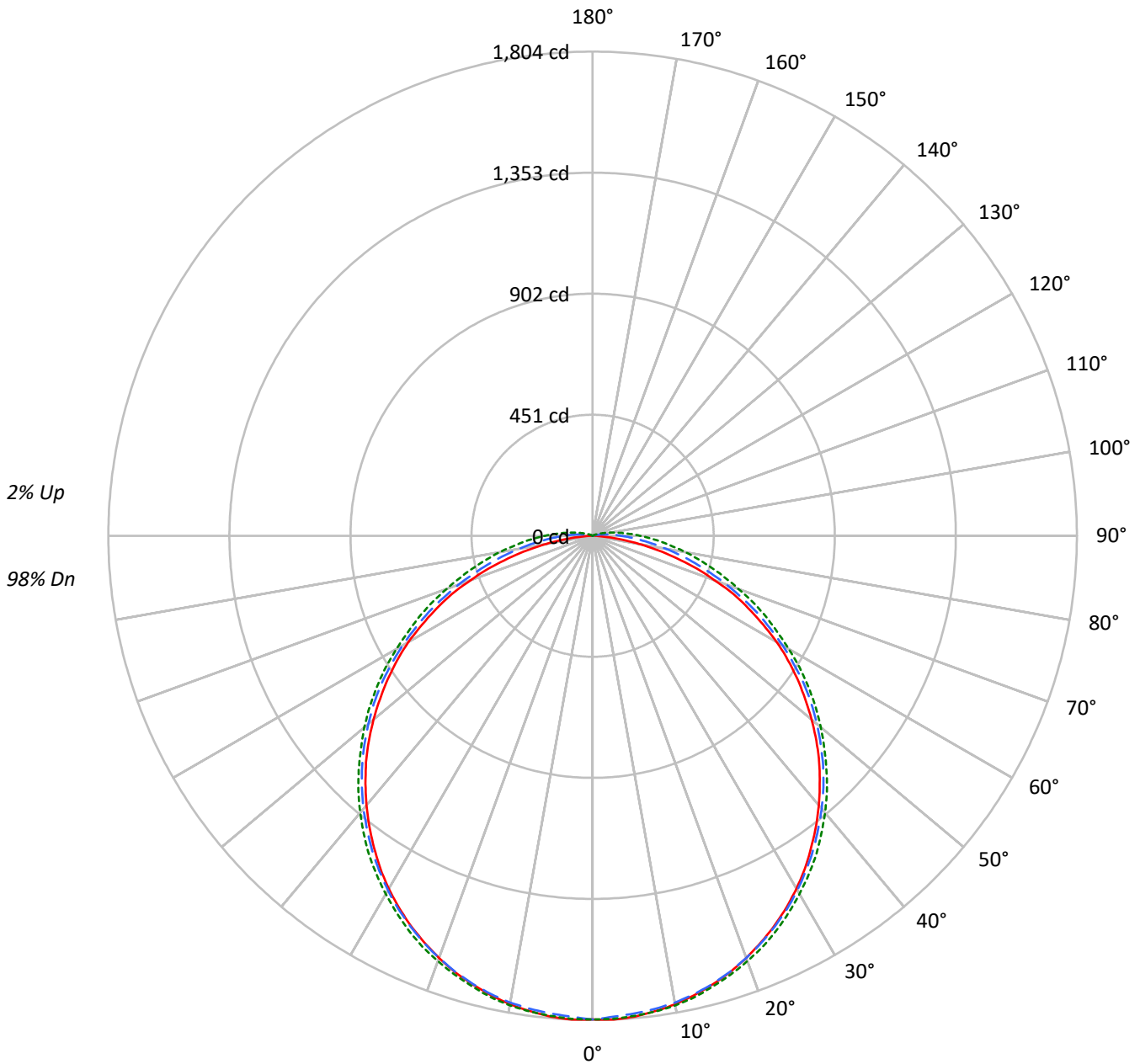
Lumens per Lamp: N/A
Luminaire Lumens: 5449.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

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°	2425	2425	2425
5°	2425	2386	2390
10°	2413	2358	2359
15°	2396	2325	2317
20°	2379	2286	2276
25°	2357	2245	2234
30°	2331	2201	2184
35°	2297	2151	2135
40°	2263	2098	2075
45°	2225	2040	2009
50°	2175	1971	1938
55°	2122	1894	1858
60°	2059	1789	1762
65°	1951	1670	1669
70°	1793	1528	1559
75°	1564	1371	1468
80°	1213	1225	1399
85°	699	1092	1361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.5	3.1
10°-20°	489.2	9.0
20°-30°	742.3	13.6
30°-40°	897.5	16.5
40°-50°	936.5	17.2
50°-60°	856.2	15.7
60°-70°	667.5	12.2
70°-80°	417.6	7.7
80°-90°	189.6	3.5
90°-100°	63.6	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°	1402.0	25.7
0°-40°	2299.5	42.2
0°-60°	4092.3	75.1
0°-90°	5367.0	98.5
90°-120°	82.0	1.5
90°-150°	82.0	1.5
90°-180°	82.0	1.5
0°-180°	5449.0	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	1738	488
25°	1603	1604	1606	1620	1622	739
35°	1419	1425	1431	1446	1452	888
45°	1194	1204	1214	1226	1232	920
55°	932	943	960	974	980	832
65°	640	651	674	701	712	633
75°	324	344	394	441	458	346
85°	56	104	178	235	256	71
90°	0	39	105	158	177	2
95°	0	10	54	99	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°	1802.2	1802.2	1802.2	1802.2	1802.2
2.5°	1804.3	1801.8	1793.7	1801.8	1801.4
5°	1798.4	1795.0	1786.9	1795.4	1795.4
7.5°	1786.5	1785.2	1778.0	1787.8	1787.8
10°	1772.5	1772.0	1766.1	1776.7	1777.1
12.5°	1752.9	1754.6	1749.1	1759.3	1760.6
15°	1730.0	1733.0	1728.3	1738.0	1737.6
17.5°	1704.9	1706.6	1703.2	1714.3	1713.8
20°	1673.9	1676.0	1673.5	1684.9	1686.2
22.5°	1639.5	1642.5	1642.0	1653.9	1657.3
25°	1602.9	1604.2	1605.9	1619.5	1622.1
27.5°	1562.6	1564.7	1567.7	1580.0	1582.6
30°	1518.4	1521.8	1525.2	1537.9	1541.3
32.5°	1471.7	1475.1	1479.3	1495.9	1497.6
35°	1419.0	1425.4	1431.3	1445.8	1451.7
37.5°	1366.3	1374.4	1379.9	1395.2	1399.9
40°	1310.7	1318.7	1327.6	1343.8	1346.8
42.5°	1252.4	1261.8	1272.4	1286.9	1292.0
45°	1193.8	1204.4	1214.2	1226.1	1232.1
47.5°	1130.5	1141.1	1153.0	1166.6	1170.5
50°	1065.1	1077.4	1090.2	1102.9	1109.7
52.5°	998.0	1012.8	1027.3	1040.9	1047.2
55°	931.7	942.7	960.2	974.2	980.5
57.5°	862.9	872.2	887.9	910.9	914.3
60°	792.8	801.3	817.4	836.1	843.7
62.5°	715.4	726.9	743.9	767.7	774.5
65°	640.2	651.3	673.8	700.6	711.6
67.5°	567.6	571.4	600.3	628.3	646.2
70°	481.8	496.2	529.8	564.2	577.8
72.5°	407.9	422.3	459.3	499.6	516.6
75°	324.2	344.1	394.3	441.4	458.0
77.5°	250.7	272.8	334.8	382.4	401.5
80°	175.0	209.4	277.0	330.5	351.3
82.5°	110.0	152.5	224.7	280.8	299.1
85°	56.1	103.7	178.0	235.4	256.2
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	144.9
95°	0.4	10.2	54.4	98.6	113.9
97.5°	0.4	4.2	37.4	74.3	89.6
100°	0.4	2.1	23.8	54.0	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)