

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: P580266

Luminaire Tested: **HVSL12-8-LD4-1LO-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580266
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-50-UNV-O-EDD
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

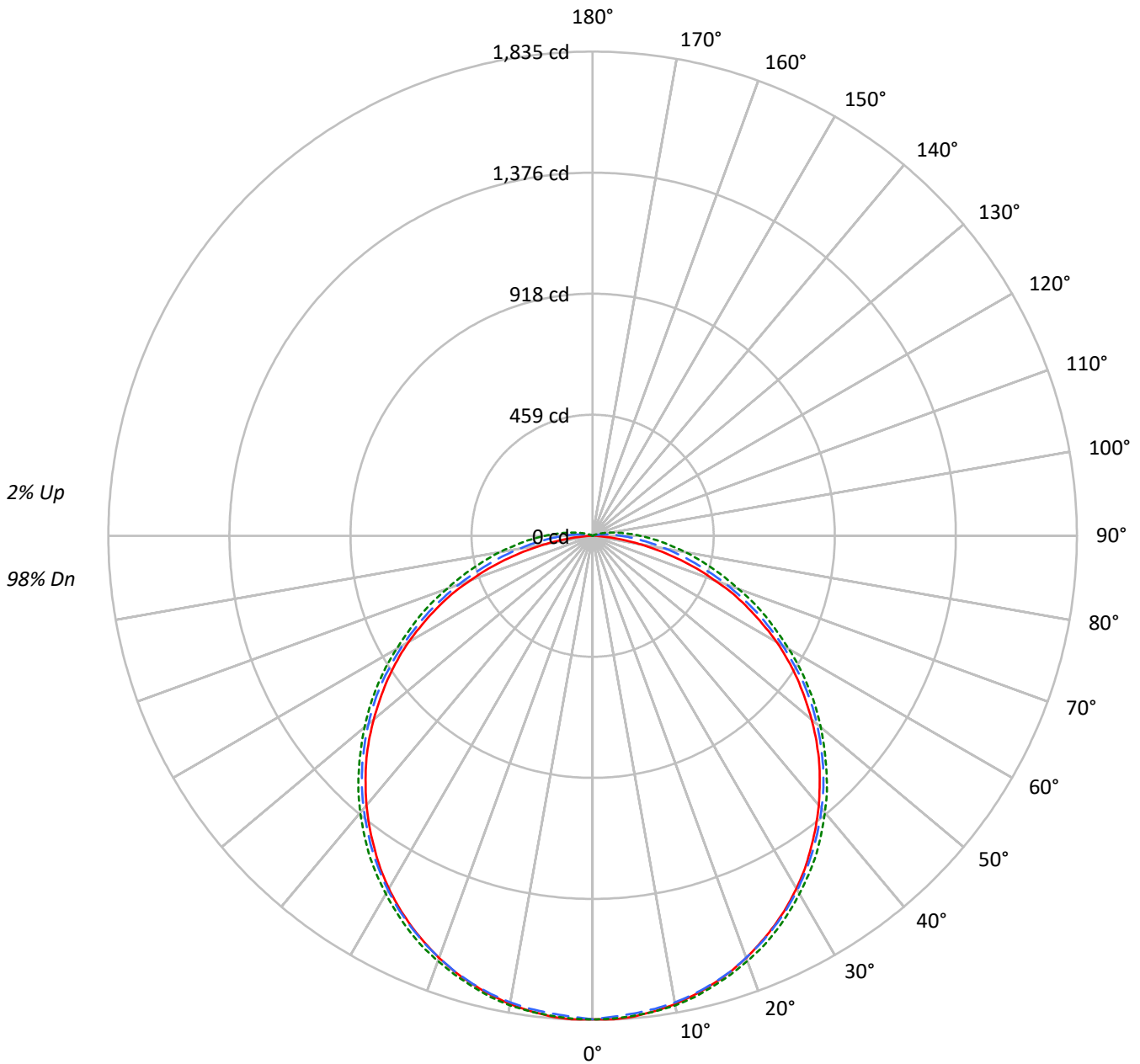
Lumens per Lamp: N/A
Luminaire Lumens: 5541.0 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

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°	2466	2466	2466
5°	2465	2426	2430
10°	2454	2398	2398
15°	2437	2364	2356
20°	2419	2324	2315
25°	2397	2283	2272
30°	2370	2238	2221
35°	2336	2188	2171
40°	2301	2134	2110
45°	2263	2074	2043
50°	2212	2004	1971
55°	2158	1926	1889
60°	2094	1819	1792
65°	1984	1698	1697
70°	1823	1553	1585
75°	1590	1394	1492
80°	1233	1246	1423
85°	711	1111	1384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.4	3.1
10°-20°	497.5	9.0
20°-30°	754.8	13.6
30°-40°	912.7	16.5
40°-50°	952.3	17.2
50°-60°	870.7	15.7
60°-70°	678.8	12.2
70°-80°	424.6	7.7
80°-90°	192.8	3.5
90°-100°	64.6	1.2
100°-110°	16.2	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°	1425.7	25.7
0°-40°	2338.4	42.2
0°-60°	4161.4	75.1
0°-90°	5457.6	98.5
90°-120°	83.4	1.5
90°-150°	83.4	1.5
90°-180°	83.0	1.5
0°-180°	5541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1833	1833	1833	1833	1833	
5°	1829	1825	1817	1826	1826	174
15°	1759	1762	1758	1767	1767	497
25°	1630	1631	1633	1647	1650	751
35°	1443	1449	1456	1470	1476	903
45°	1214	1225	1235	1247	1253	935
55°	947	959	976	991	997	846
65°	651	662	685	712	724	644
75°	330	350	401	449	466	351
85°	57	105	181	239	260	72
90°	0	39	107	160	180	2
95°	0	10	55	100	116	0
105°	1	1	9	27	36	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°	1832.6	1832.6	1832.6	1832.6	1832.6
2.5°	1834.8	1832.2	1824.0	1832.2	1831.8
5°	1828.7	1825.3	1817.1	1825.7	1825.7
7.5°	1816.6	1815.3	1808.0	1817.9	1817.9
10°	1802.4	1802.0	1795.9	1806.7	1807.1
12.5°	1782.5	1784.2	1778.6	1789.0	1790.3
15°	1759.2	1762.2	1757.5	1767.4	1767.0
17.5°	1733.7	1735.4	1732.0	1743.2	1742.8
20°	1702.2	1704.3	1701.7	1713.4	1714.7
22.5°	1667.2	1670.2	1669.8	1681.9	1685.3
25°	1630.0	1631.3	1633.0	1646.9	1649.5
27.5°	1589.0	1591.1	1594.2	1606.7	1609.3
30°	1544.0	1547.5	1551.0	1563.9	1567.4
32.5°	1496.5	1500.0	1504.3	1521.1	1522.9
35°	1442.9	1449.4	1455.5	1470.2	1476.2
37.5°	1389.4	1397.6	1403.2	1418.8	1423.5
40°	1332.8	1341.0	1350.1	1366.5	1369.5
42.5°	1273.6	1283.1	1293.9	1308.6	1313.8
45°	1214.0	1224.8	1234.7	1246.8	1252.9
47.5°	1149.6	1160.4	1172.5	1186.3	1190.2
50°	1083.1	1095.6	1108.6	1121.5	1128.4
52.5°	1014.8	1029.9	1044.6	1058.4	1064.9
55°	947.4	958.7	976.4	990.6	997.1
57.5°	877.4	886.9	902.9	926.3	929.7
60°	806.1	814.8	831.2	850.2	858.0
62.5°	727.5	739.2	756.5	780.7	787.6
65°	651.1	662.3	685.2	712.4	723.6
67.5°	577.2	581.1	610.4	639.0	657.1
70°	489.9	504.6	538.7	573.7	587.5
72.5°	414.7	429.4	467.0	508.1	525.3
75°	329.6	349.9	400.9	448.9	465.7
77.5°	254.9	277.4	340.4	388.8	408.3
80°	178.0	213.0	281.7	336.1	357.3
82.5°	111.9	155.1	228.5	285.6	304.1
85°	57.0	105.4	181.0	239.3	260.5
87.5°	15.1	68.3	140.8	196.6	218.2
90°	0.4	39.3	106.7	160.3	179.7
92.5°	0.4	22.0	79.5	127.4	147.3
95°	0.4	10.4	55.3	100.2	115.8
97.5°	0.4	4.3	38.0	75.6	91.2
100°	0.4	2.2	24.2	54.9	68.3
102.5°	0.9	1.3	15.1	39.3	50.1
105°	0.9	1.3	9.1	26.8	35.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	1.3	1.7	7.3	10.8
115°	1.3	1.3	1.7	4.8	6.9
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	5.2	18.1	24.6
110°	1.3	1.3	3.0	11.2	16.4



(END OF REPORT)