

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: P580273

Luminaire Tested: **HVSL12-8-LD4-1STD-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580273
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-LD4-1STD-50-UNV-O-EDD-90
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

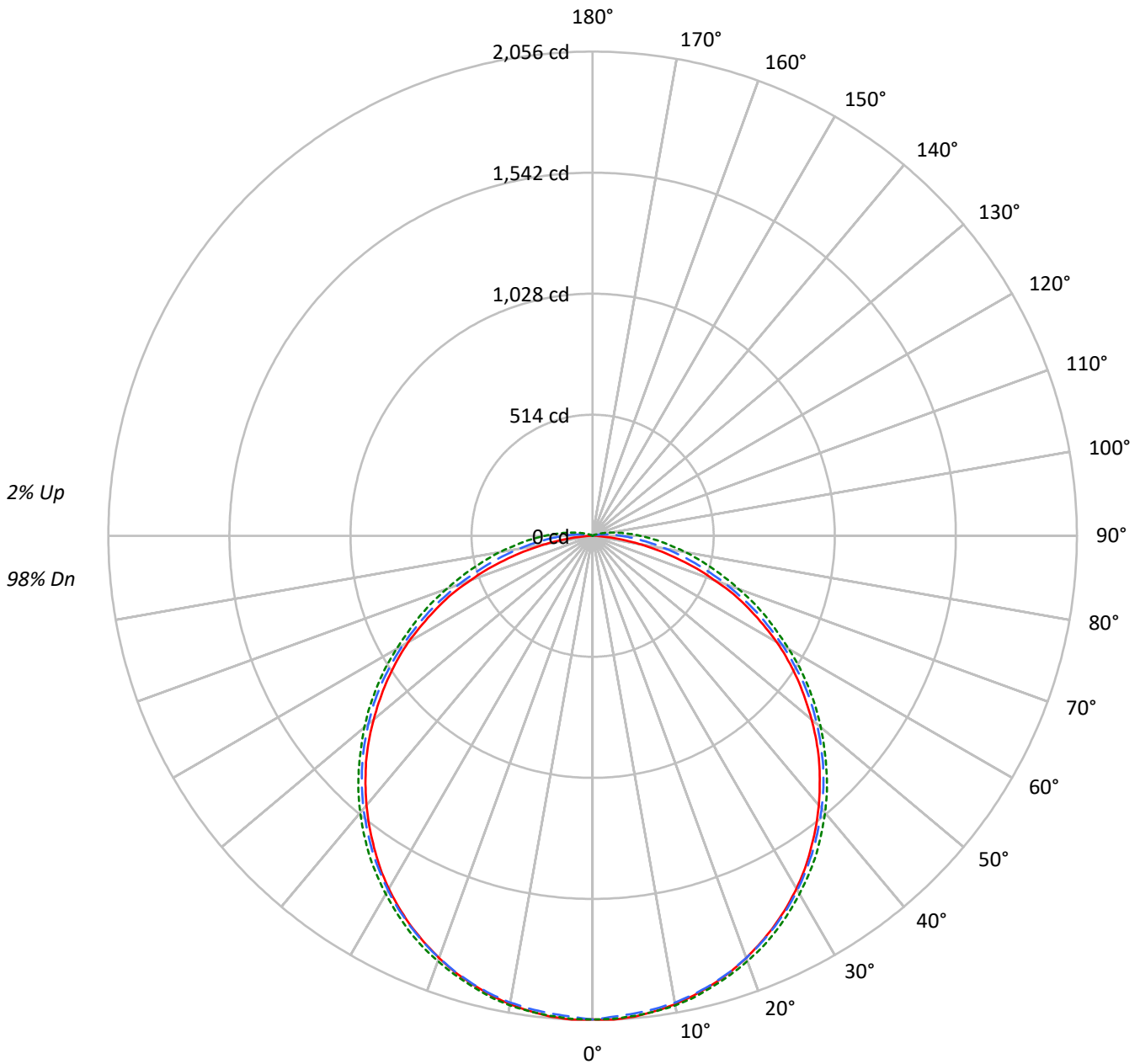
Lumens per Lamp: N/A
Luminaire Lumens: 6210.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 69.1
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°	2764	2764	2764
5°	2763	2719	2724
10°	2750	2687	2688
15°	2731	2649	2641
20°	2711	2605	2594
25°	2686	2559	2546
30°	2657	2508	2490
35°	2618	2452	2433
40°	2578	2392	2365
45°	2536	2325	2290
50°	2479	2246	2209
55°	2419	2158	2117
60°	2347	2039	2008
65°	2224	1903	1902
70°	2043	1741	1777
75°	1782	1562	1673
80°	1382	1396	1595
85°	797	1245	1552



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.4	3.1
10°-20°	557.5	9.0
20°-30°	845.9	13.6
30°-40°	1022.9	16.5
40°-50°	1067.3	17.2
50°-60°	975.8	15.7
60°-70°	760.7	12.2
70°-80°	475.9	7.7
80°-90°	216.1	3.5
90°-100°	72.4	1.2
100°-110°	18.2	0.3
110°-120°	2.9	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°	1597.8	25.7
0°-40°	2620.7	42.2
0°-60°	4663.8	75.1
0°-90°	6116.5	98.5
90°-120°	93.5	1.5
90°-150°	93.5	1.5
90°-180°	94.0	1.5
0°-180°	6210.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2054	2054	2054	2054	2054	
5°	2050	2046	2036	2046	2046	195
15°	1972	1975	1970	1981	1980	557
25°	1827	1828	1830	1846	1849	842
35°	1617	1624	1631	1648	1654	1012
45°	1360	1373	1384	1397	1404	1048
55°	1062	1074	1094	1110	1118	949
65°	730	742	768	798	811	722
75°	369	392	449	503	522	394
85°	64	118	203	268	292	81
90°	0	44	120	180	201	3
95°	0	12	62	112	130	0
105°	1	2	10	30	40	1
115°	2	2	2	5	8	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°	2053.9	2053.9	2053.9	2053.9	2053.9
2.5°	2056.3	2053.4	2044.2	2053.4	2052.9
5°	2049.5	2045.7	2036.5	2046.1	2046.1
7.5°	2036.0	2034.5	2026.3	2037.4	2037.4
10°	2020.0	2019.5	2012.7	2024.8	2025.3
12.5°	1997.7	1999.7	1993.4	2005.0	2006.4
15°	1971.6	1975.0	1969.6	1980.8	1980.3
17.5°	1943.0	1945.0	1941.1	1953.7	1953.2
20°	1907.7	1910.1	1907.2	1920.3	1921.7
22.5°	1868.5	1871.8	1871.4	1884.9	1888.8
25°	1826.8	1828.3	1830.2	1845.7	1848.6
27.5°	1780.8	1783.2	1786.6	1800.7	1803.6
30°	1730.5	1734.3	1738.2	1752.7	1756.6
32.5°	1677.2	1681.1	1685.9	1704.8	1706.7
35°	1617.2	1624.4	1631.2	1647.7	1654.4
37.5°	1557.1	1566.3	1572.6	1590.0	1595.4
40°	1493.7	1502.9	1513.1	1531.5	1534.9
42.5°	1427.4	1438.0	1450.1	1466.6	1472.4
45°	1360.5	1372.7	1383.8	1397.3	1404.1
47.5°	1288.4	1300.5	1314.1	1329.6	1333.9
50°	1213.8	1227.9	1242.4	1256.9	1264.7
52.5°	1137.3	1154.3	1170.7	1186.2	1193.5
55°	1061.8	1074.4	1094.2	1110.2	1117.5
57.5°	983.4	994.0	1011.9	1038.1	1042.0
60°	903.5	913.2	931.6	952.9	961.6
62.5°	815.4	828.4	847.8	874.9	882.7
65°	729.7	742.2	767.9	798.4	811.0
67.5°	646.9	651.2	684.1	716.1	736.4
70°	549.1	565.5	603.8	643.0	658.5
72.5°	464.8	481.3	523.4	569.4	588.8
75°	369.4	392.2	449.3	503.1	521.9
77.5°	285.7	310.8	381.5	435.8	457.6
80°	199.5	238.7	315.7	376.7	400.4
82.5°	125.4	173.8	256.1	320.0	340.9
85°	63.9	118.1	202.9	268.2	292.0
87.5°	16.9	76.5	157.8	220.3	244.5
90°	0.5	44.1	119.6	179.6	201.4
92.5°	0.5	24.7	89.1	142.8	165.1
95°	0.5	11.6	62.0	112.3	129.8
97.5°	0.5	4.8	42.6	84.7	102.2
100°	0.5	2.4	27.1	61.5	76.5
102.5°	1.0	1.5	16.9	44.1	56.2
105°	1.0	1.5	10.2	30.0	40.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	1.5	1.9	8.2	12.1
115°	1.5	1.5	1.9	5.3	7.7
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°	1.0	1.5	5.8	20.3	27.6
110°	1.5	1.5	3.4	12.6	18.4



(END OF REPORT)