

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: P580268

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580268
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-30-UNV-O-EDD
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

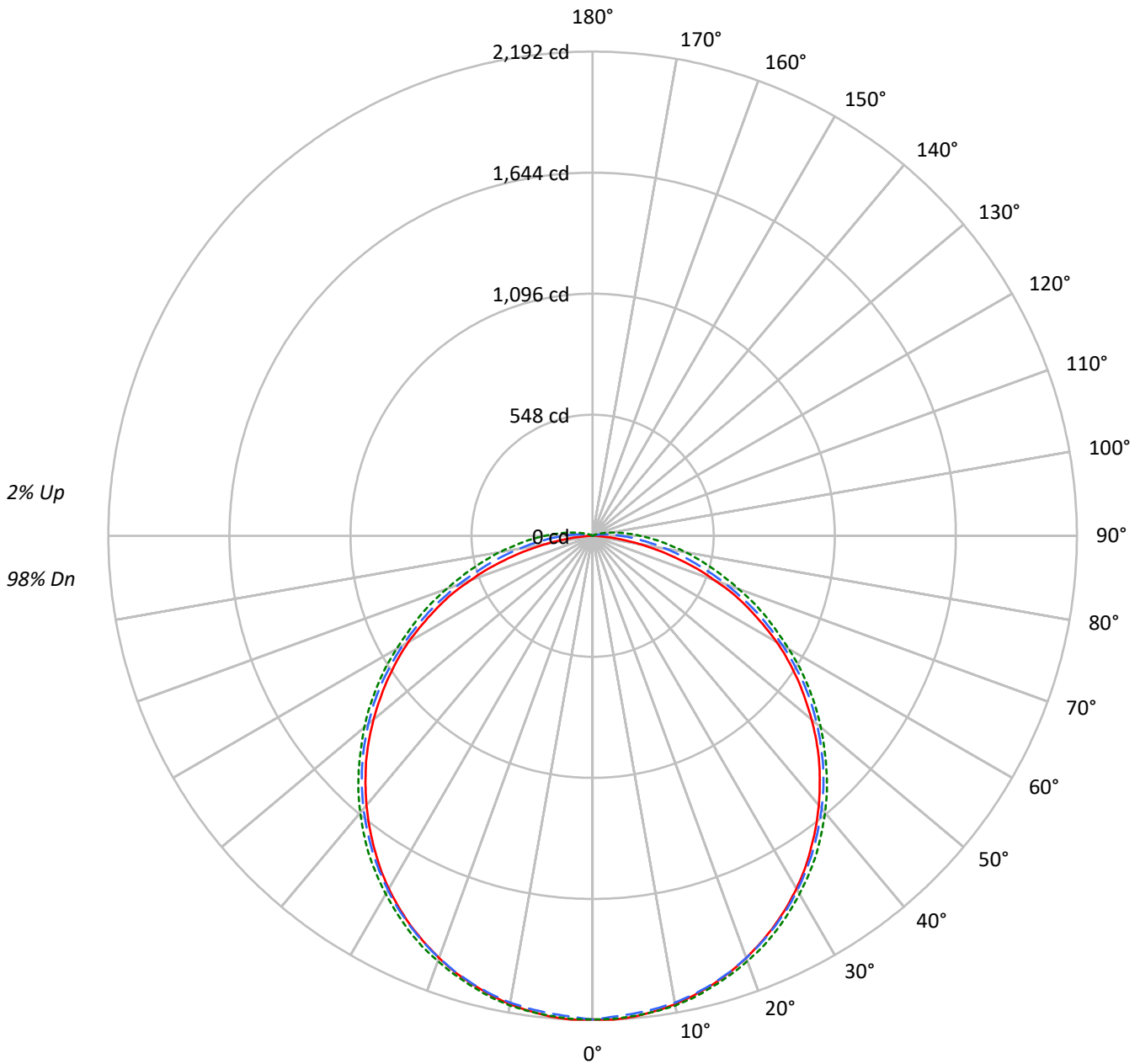
Lumens per Lamp: N/A
Luminaire Lumens: 6621.0 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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°	2946	2946	2946
5°	2946	2899	2904
10°	2932	2865	2866
15°	2912	2825	2815
20°	2890	2777	2766
25°	2864	2728	2715
30°	2832	2674	2654
35°	2791	2614	2594
40°	2749	2550	2521
45°	2704	2479	2442
50°	2643	2394	2355
55°	2579	2301	2257
60°	2502	2173	2141
65°	2371	2029	2028
70°	2178	1856	1894
75°	1900	1666	1783
80°	1474	1489	1700
85°	849	1327	1654



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.2	3.1
10°-20°	594.4	9.0
20°-30°	901.9	13.6
30°-40°	1090.6	16.5
40°-50°	1137.9	17.2
50°-60°	1040.4	15.7
60°-70°	811.1	12.2
70°-80°	507.4	7.7
80°-90°	230.4	3.5
90°-100°	77.2	1.2
100°-110°	19.4	0.3
110°-120°	3.1	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°	1703.6	25.7
0°-40°	2794.1	42.2
0°-60°	4972.5	75.1
0°-90°	6521.3	98.5
90°-120°	99.7	1.5
90°-150°	99.7	1.5
90°-180°	100.0	1.5
0°-180°	6621.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2190	2190	2190	2190	2190	
5°	2185	2181	2171	2182	2182	208
15°	2102	2106	2100	2112	2111	593
25°	1948	1949	1951	1968	1971	897
35°	1724	1732	1739	1757	1764	1079
45°	1451	1464	1475	1490	1497	1118
55°	1132	1146	1167	1184	1191	1011
65°	778	791	819	851	865	770
75°	394	418	479	536	556	420
85°	68	126	216	286	311	86
90°	0	47	128	192	215	3
95°	0	12	66	120	138	0
105°	1	2	11	32	43	1
115°	2	2	2	6	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°	2189.8	2189.8	2189.8	2189.8	2189.8
2.5°	2192.4	2189.3	2179.5	2189.3	2188.8
5°	2185.2	2181.1	2171.2	2181.6	2181.6
7.5°	2170.7	2169.2	2160.4	2172.3	2172.3
10°	2153.7	2153.2	2145.9	2158.9	2159.4
12.5°	2129.9	2132.0	2125.3	2137.7	2139.2
15°	2102.1	2105.7	2100.0	2111.9	2111.4
17.5°	2071.6	2073.7	2069.5	2083.0	2082.5
20°	2033.9	2036.5	2033.4	2047.3	2048.9
22.5°	1992.1	1995.7	1995.2	2009.7	2013.8
25°	1947.7	1949.3	1951.3	1967.9	1970.9
27.5°	1898.7	1901.3	1904.9	1919.8	1922.9
30°	1845.0	1849.1	1853.2	1868.7	1872.9
32.5°	1788.2	1792.3	1797.5	1817.6	1819.7
35°	1724.2	1731.9	1739.2	1756.7	1763.9
37.5°	1660.2	1670.0	1676.7	1695.3	1701.0
40°	1592.6	1602.4	1613.2	1632.8	1636.4
42.5°	1521.8	1533.2	1546.1	1563.6	1569.8
45°	1450.6	1463.5	1475.4	1489.8	1497.1
47.5°	1373.7	1386.6	1401.0	1417.6	1422.2
50°	1294.2	1309.1	1324.6	1340.1	1348.4
52.5°	1212.6	1230.7	1248.2	1264.8	1272.5
55°	1132.1	1145.5	1166.7	1183.7	1191.4
57.5°	1048.5	1059.8	1078.9	1106.8	1110.9
60°	963.3	973.6	993.2	1015.9	1025.2
62.5°	869.3	883.3	903.9	932.8	941.1
65°	778.0	791.4	818.7	851.3	864.7
67.5°	689.7	694.3	729.4	763.5	785.2
70°	585.4	603.0	643.7	685.5	702.1
72.5°	495.6	513.1	558.0	607.1	627.7
75°	393.9	418.1	479.1	536.4	556.5
77.5°	304.6	331.4	406.8	464.6	487.8
80°	212.7	254.5	336.6	401.6	426.9
82.5°	133.7	185.3	273.1	341.2	363.4
85°	68.1	126.0	216.3	286.0	311.3
87.5°	18.1	81.6	168.3	234.9	260.7
90°	0.5	47.0	127.5	191.5	214.7
92.5°	0.5	26.3	95.0	152.3	176.0
95°	0.5	12.4	66.1	119.8	138.3
97.5°	0.5	5.2	45.4	90.3	108.9
100°	0.5	2.6	28.9	65.6	81.6
102.5°	1.0	1.5	18.1	47.0	59.9
105°	1.0	1.5	10.8	32.0	42.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	1.5	2.1	8.8	12.9
115°	1.5	1.5	2.1	5.7	8.3
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	6.2	21.7	29.4
110°	1.5	1.5	3.6	13.4	19.6



(END OF REPORT)