

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: P580274

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

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580274  
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  
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

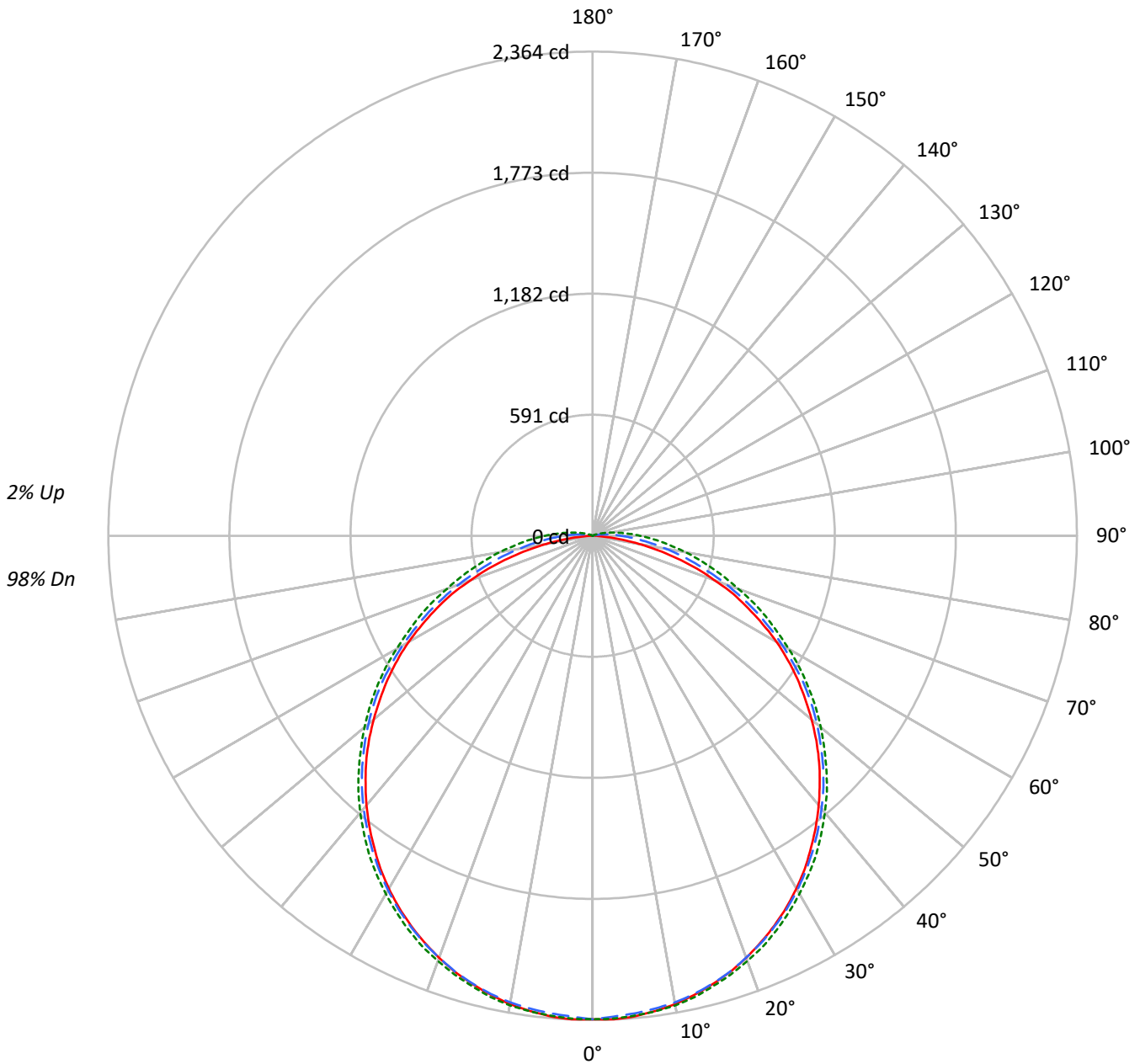
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7138.1 lumens  
Efficiency: N/A  
Efficacy: 103.3 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					20					
RC	80					70					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°	3176	3176	3176
5°	3176	3125	3131
10°	3161	3089	3090
15°	3139	3045	3035
20°	3116	2994	2982
25°	3087	2941	2927
30°	3054	2883	2862
35°	3009	2818	2797
40°	2964	2749	2718
45°	2915	2672	2632
50°	2850	2581	2539
55°	2780	2481	2434
60°	2697	2343	2308
65°	2556	2188	2186
70°	2348	2001	2042
75°	2048	1796	1923
80°	1589	1605	1833
85°	916	1431	1783



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.4	3.1
10°-20°	640.8	9.0
20°-30°	972.3	13.6
30°-40°	1175.7	16.5
40°-50°	1226.8	17.2
50°-60°	1121.7	15.7
60°-70°	874.4	12.2
70°-80°	547.0	7.7
80°-90°	248.4	3.5
90°-100°	83.3	1.2
100°-110°	20.9	0.3
110°-120°	3.3	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°	1836.6	25.7
0°-40°	3012.3	42.2
0°-60°	5360.8	75.1
0°-90°	7030.6	98.5
90°-120°	107.5	1.5
90°-150°	107.5	1.5
90°-180°	107.0	1.5
0°-180°	7138.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2361	2361	2361	2361	2361	
5°	2356	2351	2341	2352	2352	224
15°	2266	2270	2264	2277	2276	640
25°	2100	2102	2104	2122	2125	968
35°	1859	1867	1875	1894	1902	1163
45°	1564	1578	1591	1606	1614	1205
55°	1220	1235	1258	1276	1284	1090
65°	839	853	883	918	932	830
75°	425	451	516	578	600	453
85°	74	136	233	308	336	93
90°	1	51	138	206	232	3
95°	1	13	71	129	149	0
105°	1	2	12	34	46	1
115°	2	2	2	6	9	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°	2360.8	2360.8	2360.8	2360.8	2360.8
2.5°	2363.6	2360.3	2349.7	2360.3	2359.7
5°	2355.8	2351.4	2340.8	2351.9	2351.9
7.5°	2340.2	2338.6	2329.1	2341.9	2341.9
10°	2321.9	2321.3	2313.5	2327.4	2328.0
12.5°	2296.3	2298.5	2291.3	2304.6	2306.3
15°	2266.2	2270.1	2264.0	2276.8	2276.2
17.5°	2233.4	2235.6	2231.1	2245.6	2245.1
20°	2192.7	2195.5	2192.2	2207.2	2208.9
22.5°	2147.7	2151.6	2151.0	2166.6	2171.0
25°	2099.8	2101.5	2103.7	2121.5	2124.8
27.5°	2046.9	2049.7	2053.6	2069.8	2073.1
30°	1989.1	1993.5	1998.0	2014.7	2019.1
32.5°	1927.8	1932.3	1937.9	1959.6	1961.8
35°	1858.8	1867.2	1875.0	1893.9	1901.7
37.5°	1789.8	1800.4	1807.6	1827.7	1833.8
40°	1716.9	1727.5	1739.2	1760.3	1764.2
42.5°	1640.7	1652.9	1666.8	1685.7	1692.4
45°	1563.9	1577.8	1590.6	1606.2	1613.9
47.5°	1480.9	1494.9	1510.4	1528.2	1533.3
50°	1395.2	1411.4	1428.1	1444.8	1453.7
52.5°	1307.3	1326.8	1345.7	1363.5	1371.9
55°	1220.5	1234.9	1257.8	1276.1	1284.5
57.5°	1130.3	1142.6	1163.2	1193.2	1197.7
60°	1038.5	1049.6	1070.8	1095.3	1105.3
62.5°	937.2	952.2	974.5	1005.7	1014.6
65°	838.7	853.2	882.7	917.7	932.2
67.5°	743.5	748.5	786.4	823.1	846.5
70°	631.1	650.0	694.0	739.1	756.9
72.5°	534.3	553.2	601.6	654.5	676.7
75°	424.6	450.8	516.5	578.2	599.9
77.5°	328.4	357.3	438.5	500.9	525.9
80°	229.3	274.4	362.9	433.0	460.3
82.5°	144.1	199.8	294.4	367.9	391.8
85°	73.5	135.8	233.2	308.3	335.6
87.5°	19.5	87.9	181.4	253.2	281.0
90°	0.6	50.6	137.5	206.5	231.5
92.5°	0.6	28.4	102.4	164.2	189.8
95°	0.6	13.4	71.2	129.1	149.2
97.5°	0.6	5.6	49.0	97.4	117.4
100°	0.6	2.8	31.2	70.7	87.9
102.5°	1.1	1.7	19.5	50.6	64.6
105°	1.1	1.7	11.7	34.5	46.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	1.7	2.2	9.5	13.9
115°	1.7	1.7	2.2	6.1	8.9
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°	1.1	1.7	6.7	23.4	31.7
110°	1.7	1.7	3.9	14.5	21.1



(END OF REPORT)