

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: P580158

Luminaire Tested: **HVSL12-2-LD4-3HI-35-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

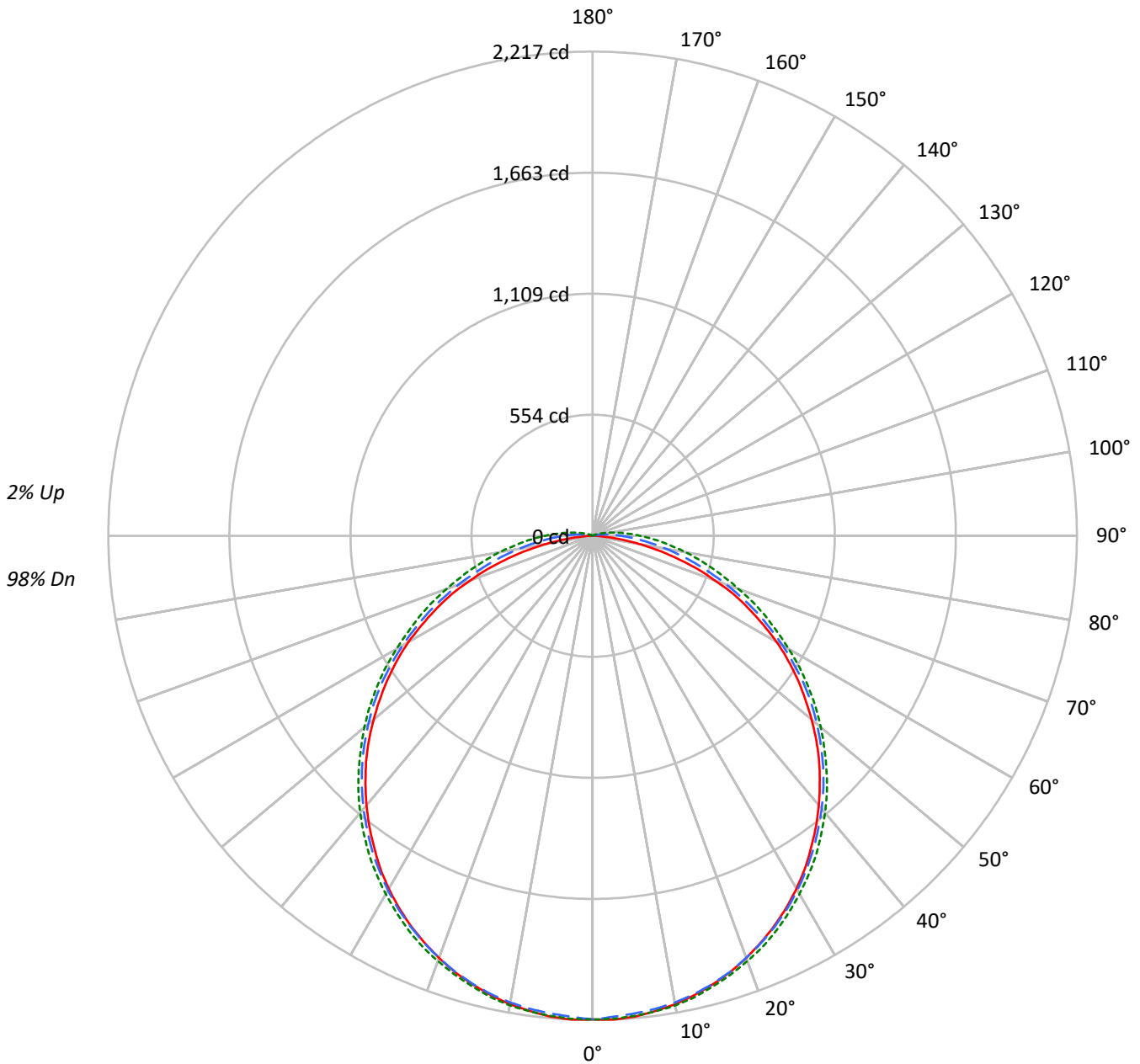
Test Method: LM-79-08  
Report Number: P580158  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-135-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/16/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: HVSL12-2-LD4-3HI-35-UNV-O-EDD  
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6696.0 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 66.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	11919	11919	11919
5°	11853	11682	11748
10°	11731	11502	11594
15°	11586	11298	11389
20°	11434	11066	11189
25°	11260	10826	10983
30°	11063	10568	10738
35°	10825	10283	10495
40°	10576	9981	10201
45°	10307	9650	9877
50°	9968	9264	9526
55°	9600	8839	9132
60°	9163	8277	8660
65°	8500	7645	8204
70°	7580	6895	7663
75°	6317	6070	7215
80°	4527	5268	6879
85°	2179	4470	6691



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.6	3.1
10°-20°	601.2	9.0
20°-30°	912.1	13.6
30°-40°	1102.9	16.5
40°-50°	1150.8	17.2
50°-60°	1052.2	15.7
60°-70°	820.2	12.2
70°-80°	513.1	7.7
80°-90°	233.0	3.5
90°-100°	78.1	1.2
100°-110°	19.6	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°	1722.9	25.7
0°-40°	2825.8	42.2
0°-60°	5028.8	75.1
0°-90°	6595.2	98.5
90°-120°	100.8	1.5
90°-150°	100.8	1.5
90°-180°	101.0	1.5
0°-180°	6696.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2215	2215	2215	2215	2215	
5°	2210	2206	2196	2206	2206	210
15°	2126	2130	2124	2136	2135	600
25°	1970	1971	1973	1990	1993	908
35°	1744	1752	1759	1777	1784	1091
45°	1467	1480	1492	1507	1514	1130
55°	1145	1158	1180	1197	1205	1023
65°	787	800	828	861	874	778
75°	398	423	484	542	563	425
85°	69	127	219	289	315	87
90°	0	48	129	194	217	3
95°	0	12	67	121	140	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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CATALOG NUMBER: HVSL12-2-LD4-3HI-35-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2214.6	2214.6	2214.6	2214.6	2214.6
2.5°	2217.2	2214.1	2204.2	2214.1	2213.6
5°	2209.9	2205.8	2195.8	2206.3	2206.3
7.5°	2195.3	2193.7	2184.9	2196.9	2196.9
10°	2178.1	2177.6	2170.3	2183.3	2183.8
12.5°	2154.1	2156.2	2149.4	2161.9	2163.5
15°	2125.9	2129.5	2123.8	2135.8	2135.3
17.5°	2095.1	2097.2	2093.0	2106.6	2106.0
20°	2057.0	2059.6	2056.4	2070.5	2072.1
22.5°	2014.7	2018.3	2017.8	2032.4	2036.6
25°	1969.8	1971.3	1973.4	1990.1	1993.3
27.5°	1920.2	1922.8	1926.4	1941.6	1944.7
30°	1865.9	1870.1	1874.2	1889.9	1894.1
32.5°	1808.5	1812.6	1817.9	1838.2	1840.3
35°	1743.7	1751.6	1758.9	1776.6	1783.9
37.5°	1679.0	1688.9	1695.7	1714.5	1720.2
40°	1610.6	1620.5	1631.5	1651.3	1655.0
42.5°	1539.1	1550.6	1563.6	1581.4	1587.6
45°	1467.0	1480.1	1492.1	1506.7	1514.0
47.5°	1389.2	1402.3	1416.9	1433.6	1438.3
50°	1308.8	1324.0	1339.6	1355.3	1363.7
52.5°	1226.3	1244.6	1262.4	1279.1	1286.9
55°	1144.9	1158.5	1179.9	1197.1	1204.9
57.5°	1060.3	1071.8	1091.1	1119.3	1123.5
60°	974.2	984.6	1004.5	1027.4	1036.8
62.5°	879.2	893.3	914.1	943.4	951.7
65°	786.8	800.3	828.0	860.9	874.5
67.5°	697.5	702.2	737.7	772.1	794.1
70°	592.0	609.8	651.0	693.3	710.0
72.5°	501.2	518.9	564.4	614.0	634.8
75°	398.3	422.9	484.5	542.4	562.8
77.5°	308.0	335.2	411.4	469.9	493.4
80°	215.1	257.4	340.4	406.2	431.8
82.5°	135.2	187.4	276.2	345.1	367.5
85°	68.9	127.4	218.7	289.2	314.8
87.5°	18.3	82.5	170.2	237.5	263.6
90°	0.5	47.5	129.0	193.7	217.2
92.5°	0.5	26.6	96.1	154.0	178.0
95°	0.5	12.5	66.8	121.1	139.9
97.5°	0.5	5.2	45.9	91.4	110.2
100°	0.5	2.6	29.2	66.3	82.5
102.5°	1.0	1.6	18.3	47.5	60.6
105°	1.0	1.6	11.0	32.4	43.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	1.6	2.1	8.9	13.1
115°	1.6	1.6	2.1	5.7	8.4
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	1.6	6.3	21.9	29.8
110°	1.6	1.6	3.7	13.6	19.8



(END OF REPORT)