

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: P580788

Luminaire Tested: **HVSL8-4-LD4-3LO-30-UNV-O-EDD**

Issue Date: 12/16/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P580788  
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: HVSL8-4-LD4-3LO-30-UNV-O-EDD  
Description: 4 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

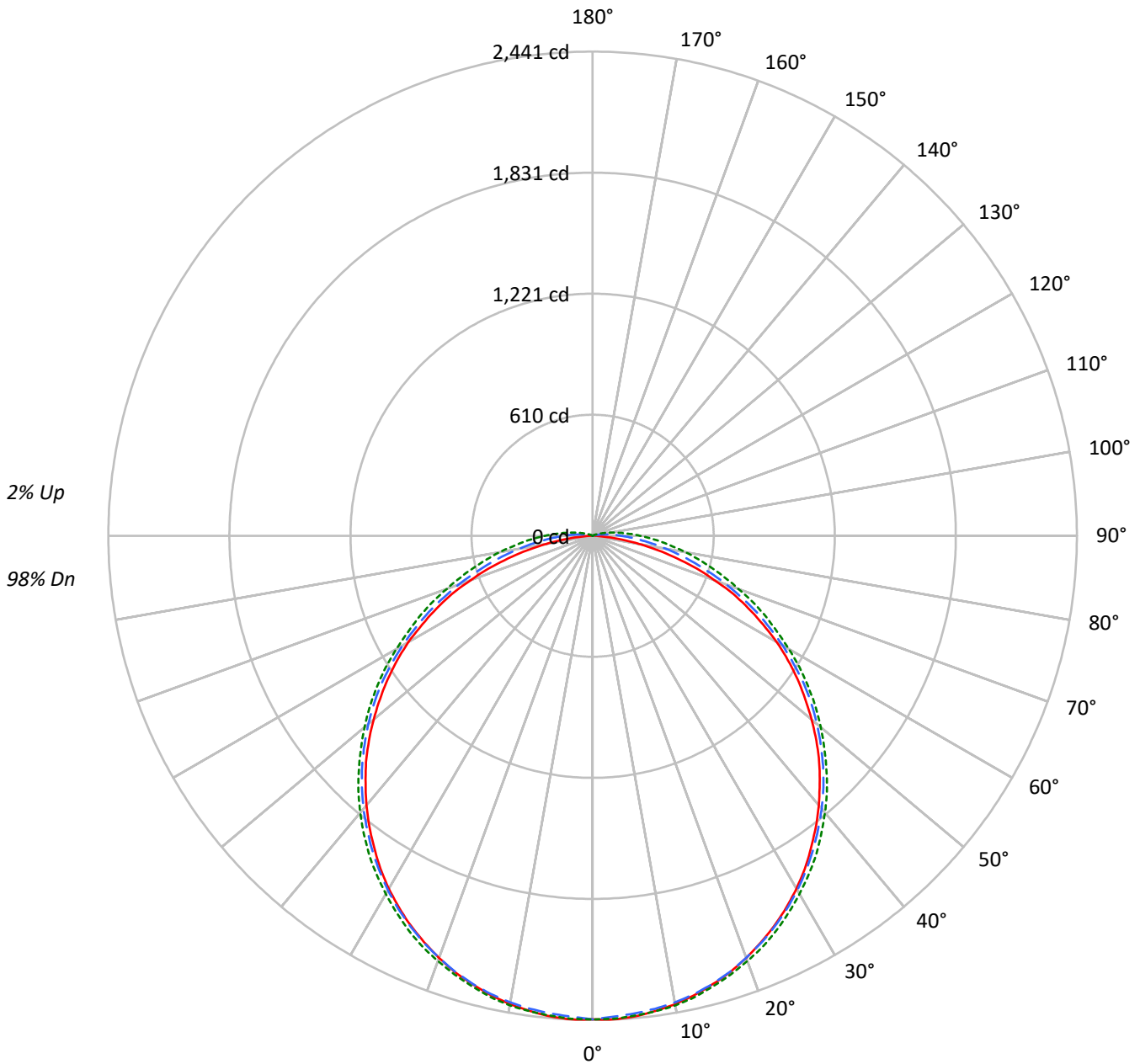
Lumens per Lamp: N/A  
Luminaire Lumens: 7372.0 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 69.5  
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°	9842	9842	9842
5°	9822	9622	9631
10°	9757	9450	9438
15°	9673	9259	9207
20°	9582	9046	8982
25°	9474	8828	8753
30°	9350	8594	8493
35°	9192	8338	8236
40°	9028	8068	7936
45°	8851	7774	7612
50°	8621	7434	7263
55°	8372	7061	6879
60°	8075	6578	6430
65°	7594	6036	5986
70°	6902	5399	5469
75°	5920	4700	4999
80°	4452	4015	4569
85°	2381	3321	4161



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.7	3.1
10°-20°	661.8	9.0
20°-30°	1004.2	13.6
30°-40°	1214.3	16.5
40°-50°	1267.0	17.2
50°-60°	1158.4	15.7
60°-70°	903.0	12.2
70°-80°	564.9	7.7
80°-90°	256.6	3.5
90°-100°	86.0	1.2
100°-110°	21.6	0.3
110°-120°	3.4	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°	1896.8	25.7
0°-40°	3111.1	42.2
0°-60°	5536.5	75.1
0°-90°	7261.0	98.5
90°-120°	111.0	1.5
90°-150°	111.0	1.5
90°-180°	111.0	1.5
0°-180°	7372.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2438	2438	2438	2438	2438	
5°	2433	2428	2418	2429	2429	231
15°	2340	2344	2338	2351	2351	661
25°	2169	2170	2173	2191	2194	999
35°	1920	1928	1936	1956	1964	1202
45°	1615	1630	1643	1659	1667	1245
55°	1260	1275	1299	1318	1327	1126
65°	866	881	912	948	963	857
75°	439	466	533	597	620	468
85°	76	140	241	318	347	96
90°	1	52	142	213	239	3
95°	1	14	74	133	154	0
105°	1	2	12	36	48	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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CATALOG NUMBER: HVSL8-4-LD4-3LO-30-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2438.2	2438.2	2438.2	2438.2	2438.2
2.5°	2441.1	2437.6	2426.7	2437.6	2437.1
5°	2433.0	2428.4	2417.5	2429.0	2429.0
7.5°	2416.9	2415.2	2405.4	2418.7	2418.7
10°	2398.0	2397.4	2389.4	2403.7	2404.3
12.5°	2371.5	2373.8	2366.4	2380.2	2381.9
15°	2340.5	2344.5	2338.2	2351.4	2350.8
17.5°	2306.6	2308.9	2304.3	2319.2	2318.7
20°	2264.6	2267.5	2264.1	2279.6	2281.3
22.5°	2218.1	2222.1	2221.5	2237.6	2242.2
25°	2168.6	2170.4	2172.7	2191.1	2194.5
27.5°	2114.0	2116.9	2120.9	2137.6	2141.1
30°	2054.3	2058.9	2063.5	2080.7	2085.3
32.5°	1991.0	1995.6	2001.4	2023.8	2026.1
35°	1919.8	1928.4	1936.4	1956.0	1964.0
37.5°	1848.5	1859.4	1866.9	1887.6	1893.9
40°	1773.2	1784.1	1796.2	1818.0	1822.0
42.5°	1694.4	1707.1	1721.5	1741.0	1747.9
45°	1615.1	1629.5	1642.7	1658.8	1666.9
47.5°	1529.5	1543.9	1560.0	1578.3	1583.5
50°	1441.0	1457.6	1474.9	1492.1	1501.3
52.5°	1350.2	1370.3	1389.8	1408.2	1416.8
55°	1260.5	1275.4	1299.0	1318.0	1326.6
57.5°	1167.4	1180.0	1201.3	1232.3	1236.9
60°	1072.5	1084.0	1105.9	1131.2	1141.5
62.5°	967.9	983.4	1006.4	1038.6	1047.8
65°	866.2	881.1	911.6	947.8	962.8
67.5°	767.9	773.1	812.2	850.1	874.2
70°	651.8	671.3	716.7	763.3	781.7
72.5°	551.8	571.3	621.3	675.9	698.9
75°	438.6	465.6	533.4	597.2	619.6
77.5°	339.1	369.0	452.9	517.3	543.2
80°	236.8	283.4	374.8	447.2	475.3
82.5°	148.9	206.3	304.1	379.9	404.6
85°	75.9	140.2	240.8	318.4	346.6
87.5°	20.1	90.8	187.4	261.5	290.3
90°	0.6	52.3	142.0	213.2	239.1
92.5°	0.6	29.3	105.8	169.6	196.0
95°	0.6	13.8	73.6	133.3	154.0
97.5°	0.6	5.7	50.6	100.6	121.3
100°	0.6	2.9	32.2	73.0	90.8
102.5°	1.1	1.7	20.1	52.3	66.7
105°	1.1	1.7	12.1	35.6	47.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	1.7	2.3	9.8	14.4
115°	1.7	1.7	2.3	6.3	9.2
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	6.9	24.1	32.8
110°	1.7	1.7	4.0	14.9	21.8



(END OF REPORT)