

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: P580756

Luminaire Tested: **HVSL8-4-LD4-2HI-30-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580756  
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-LD4-2HI-30-UNV-O-EDD  
Description: 4 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

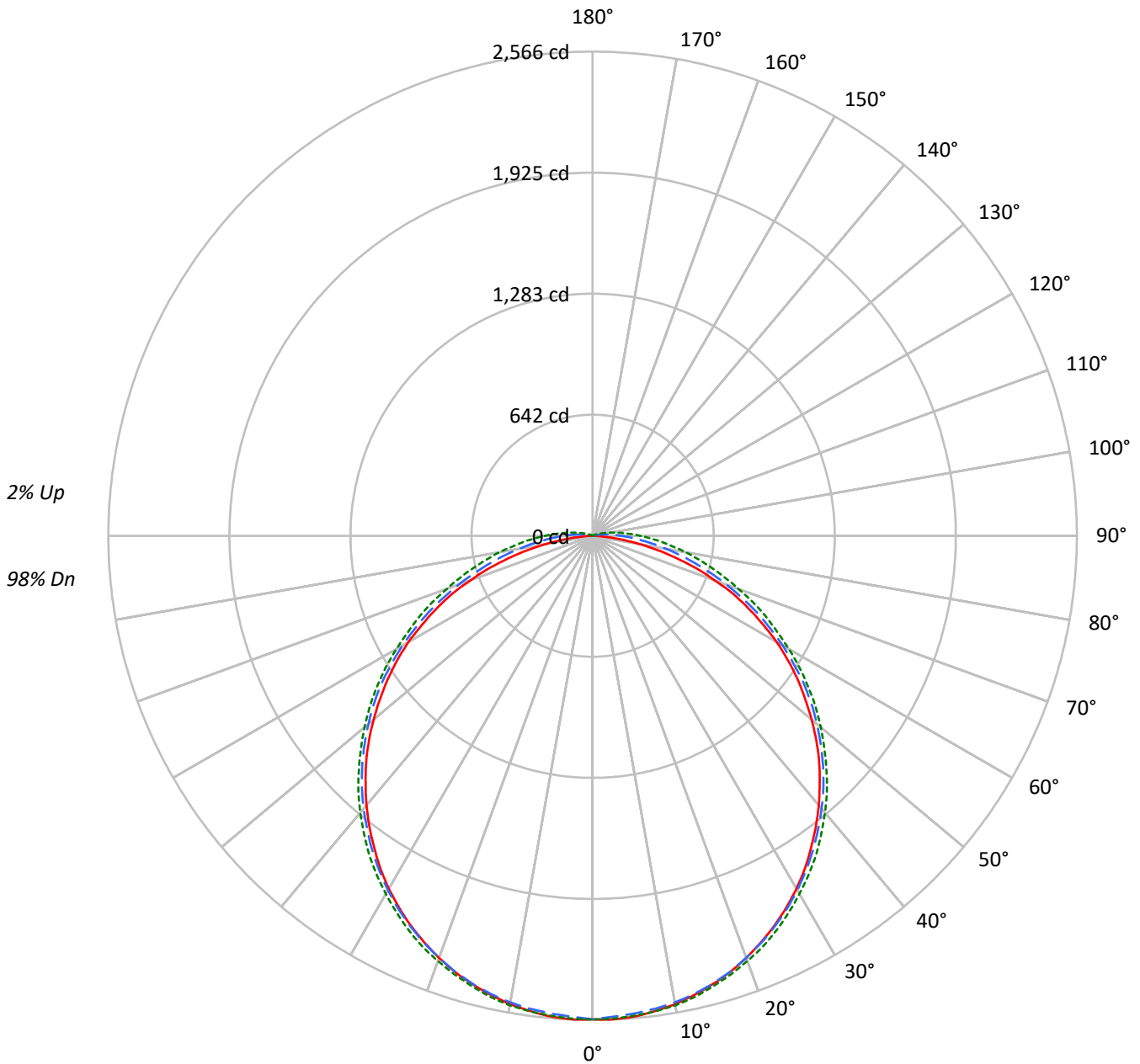
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7749.0 lumens  
Efficiency: N/A  
Efficacy: 87.3 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): 88.8  
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°	10345	10345	10345
5°	10325	10114	10124
10°	10256	9933	9921
15°	10167	9733	9678
20°	10072	9509	9441
25°	9959	9279	9201
30°	9828	9034	8927
35°	9662	8764	8657
40°	9489	8480	8341
45°	9303	8171	8001
50°	9062	7814	7635
55°	8801	7422	7231
60°	8489	6914	6759
65°	7983	6345	6292
70°	7255	5675	5748
75°	6222	4941	5254
80°	4680	4220	4804
85°	2503	3491	4373



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.5	3.1
10°-20°	695.7	9.0
20°-30°	1055.6	13.6
30°-40°	1276.4	16.5
40°-50°	1331.8	17.2
50°-60°	1217.7	15.7
60°-70°	949.2	12.2
70°-80°	593.8	7.7
80°-90°	269.7	3.5
90°-100°	90.4	1.2
100°-110°	22.7	0.3
110°-120°	3.6	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°	1993.8	25.7
0°-40°	3270.2	42.2
0°-60°	5819.6	75.1
0°-90°	7632.3	98.5
90°-120°	116.6	1.5
90°-150°	116.6	1.5
90°-180°	117.0	1.5
0°-180°	7749.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2563	2563	2563	2563	2563	
5°	2558	2553	2541	2553	2553	243
15°	2460	2464	2458	2472	2471	694
25°	2280	2281	2284	2303	2307	1050
35°	2018	2027	2036	2056	2064	1263
45°	1698	1713	1727	1744	1752	1308
55°	1325	1341	1365	1385	1394	1184
65°	910	926	958	996	1012	901
75°	461	489	561	628	651	491
85°	80	147	253	335	364	101
90°	1	55	149	224	251	3
95°	1	14	77	140	162	0
105°	1	2	13	38	50	1
115°	2	2	2	7	10	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



TEST NUMBER: P580756

CATALOG NUMBER: HVSL8-4-LD4-2HI-30-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2562.9	2562.9	2562.9	2562.9	2562.9
2.5°	2565.9	2562.3	2550.8	2562.3	2561.7
5°	2557.5	2552.6	2541.2	2553.2	2553.2
7.5°	2540.5	2538.7	2528.5	2542.4	2542.4
10°	2520.6	2520.0	2511.5	2526.7	2527.3
12.5°	2492.8	2495.2	2487.4	2501.9	2503.7
15°	2460.2	2464.4	2457.8	2471.7	2471.1
17.5°	2424.5	2427.0	2422.1	2437.8	2437.2
20°	2380.4	2383.5	2379.8	2396.1	2398.0
22.5°	2331.5	2335.7	2335.1	2352.0	2356.9
25°	2279.5	2281.4	2283.8	2303.1	2306.7
27.5°	2222.1	2225.2	2229.4	2246.9	2250.5
30°	2159.3	2164.1	2169.0	2187.1	2191.9
32.5°	2092.9	2097.7	2103.7	2127.3	2129.7
35°	2017.9	2027.0	2035.5	2056.0	2064.5
37.5°	1943.0	1954.5	1962.4	1984.1	1990.7
40°	1863.9	1875.4	1888.0	1911.0	1915.2
42.5°	1781.1	1794.4	1809.5	1830.0	1837.3
45°	1697.7	1712.8	1726.7	1743.6	1752.1
47.5°	1607.7	1622.8	1639.7	1659.1	1664.5
50°	1514.7	1532.2	1550.3	1568.4	1578.1
52.5°	1419.2	1440.3	1460.9	1480.2	1489.3
55°	1325.0	1340.7	1365.4	1385.4	1394.4
57.5°	1227.1	1240.4	1262.7	1295.3	1300.2
60°	1127.4	1139.5	1162.4	1189.0	1199.9
62.5°	1017.4	1033.7	1057.9	1091.7	1101.4
65°	910.5	926.2	958.2	996.3	1012.0
67.5°	807.2	812.6	853.7	893.6	918.9
70°	685.1	705.7	753.4	802.3	821.7
72.5°	580.0	600.5	653.1	710.5	734.7
75°	461.0	489.4	560.7	627.7	651.3
77.5°	356.5	387.9	476.1	543.8	570.9
80°	248.9	297.9	393.9	470.0	499.7
82.5°	156.5	216.9	319.6	399.4	425.3
85°	79.8	147.4	253.1	334.7	364.3
87.5°	21.1	95.5	197.0	274.9	305.1
90°	0.6	55.0	149.2	224.1	251.3
92.5°	0.6	30.8	111.2	178.2	206.0
95°	0.6	14.5	77.3	140.2	161.9
97.5°	0.6	6.0	53.2	105.7	127.5
100°	0.6	3.0	33.8	76.7	95.5
102.5°	1.2	1.8	21.1	55.0	70.1
105°	1.2	1.8	12.7	37.5	50.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.8	1.8	2.4	10.3	15.1
115°	1.8	1.8	2.4	6.6	9.7
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°	1.2	1.8	7.3	25.4	34.4
110°	1.8	1.8	4.2	15.7	23.0



(END OF REPORT)