

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: P580838

Luminaire Tested: **HVSL8-8-LD4-2LO-35-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580838
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: HVSL8-8-LD4-2LO-35-UNV-O-EDD
Description: 8 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

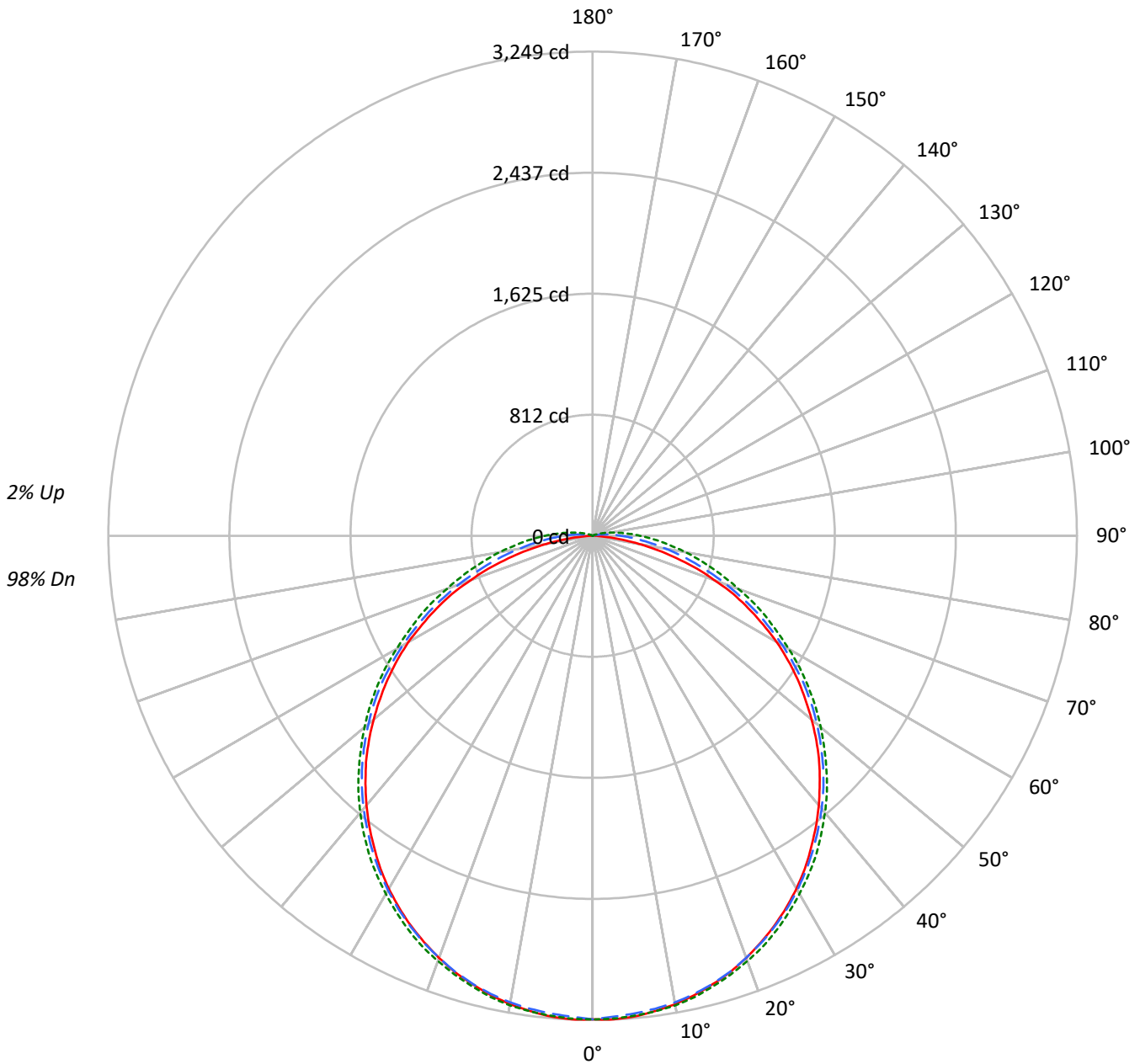
Lumens per Lamp: N/A
Luminaire Lumens: 9812.0 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 95.1
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°	6550	6550	6550
5°	6549	6411	6410
10°	6517	6304	6281
15°	6473	6185	6127
20°	6425	6050	5977
25°	6366	5912	5825
30°	6296	5763	5652
35°	6205	5599	5481
40°	6111	5426	5281
45°	6010	5237	5066
50°	5876	5018	4834
55°	5733	4777	4578
60°	5561	4461	4279
65°	5270	4107	3983
70°	4842	3688	3639
75°	4223	3228	3327
80°	3276	2779	3041
85°	1889	2327	2769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.1	3.1
10°-20°	880.9	9.0
20°-30°	1336.6	13.6
30°-40°	1616.2	16.5
40°-50°	1686.3	17.2
50°-60°	1541.8	15.7
60°-70°	1202.0	12.2
70°-80°	751.9	7.7
80°-90°	341.5	3.5
90°-100°	114.5	1.2
100°-110°	28.7	0.3
110°-120°	4.5	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°	2524.6	25.7
0°-40°	4140.8	42.2
0°-60°	7369.0	75.1
0°-90°	9664.3	98.5
90°-120°	147.7	1.5
90°-150°	147.7	1.5
90°-180°	148.0	1.5
0°-180°	9812.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3245	3245	3245	3245	3245	
5°	3238	3232	3218	3233	3233	308
15°	3115	3120	3112	3130	3129	879
25°	2886	2889	2892	2916	2921	1330
35°	2555	2567	2577	2603	2614	1599
45°	2150	2169	2186	2208	2219	1656
55°	1678	1698	1729	1754	1766	1499
65°	1153	1173	1213	1262	1281	1141
75°	584	620	710	795	825	622
85°	101	187	320	424	461	128
90°	1	70	189	284	318	4
95°	1	18	98	178	205	1
105°	2	2	16	47	64	2
115°	2	2	3	8	12	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°	3245.2	3245.2	3245.2	3245.2	3245.2
2.5°	3249.0	3244.5	3229.9	3244.5	3243.7
5°	3238.3	3232.2	3217.7	3233.0	3233.0
7.5°	3216.9	3214.6	3201.6	3219.2	3219.2
10°	3191.7	3190.9	3180.2	3199.3	3200.1
12.5°	3156.5	3159.5	3149.6	3167.9	3170.2
15°	3115.2	3120.5	3112.1	3129.7	3128.9
17.5°	3070.0	3073.1	3067.0	3086.9	3086.1
20°	3014.2	3018.0	3013.4	3034.1	3036.4
22.5°	2952.2	2957.6	2956.8	2978.2	2984.3
25°	2886.4	2888.7	2891.8	2916.3	2920.8
27.5°	2813.7	2817.6	2822.9	2845.1	2849.7
30°	2734.2	2740.3	2746.4	2769.4	2775.5
32.5°	2650.0	2656.2	2663.8	2693.6	2696.7
35°	2555.2	2566.6	2577.4	2603.4	2614.1
37.5°	2460.3	2474.8	2484.8	2512.3	2520.7
40°	2360.1	2374.6	2390.7	2419.8	2425.1
42.5°	2255.3	2272.1	2291.2	2317.2	2326.4
45°	2149.7	2168.8	2186.4	2207.8	2218.6
47.5°	2035.7	2054.8	2076.3	2100.7	2107.6
50°	1917.9	1940.1	1963.0	1986.0	1998.2
52.5°	1797.0	1823.8	1849.8	1874.3	1885.8
55°	1677.7	1697.6	1728.9	1754.2	1765.7
57.5°	1553.8	1570.6	1598.9	1640.2	1646.3
60°	1427.5	1442.8	1471.9	1505.6	1519.3
62.5°	1288.3	1309.0	1339.6	1382.4	1394.6
65°	1152.9	1172.8	1213.3	1261.5	1281.4
67.5°	1022.1	1029.0	1081.0	1131.5	1163.6
70°	867.5	893.5	954.0	1015.9	1040.4
72.5°	734.4	760.4	827.0	899.7	930.3
75°	583.7	619.7	709.9	794.9	824.7
77.5°	451.4	491.1	602.8	688.5	722.9
80°	315.2	377.2	498.8	595.2	632.7
82.5°	198.1	274.6	404.7	505.7	538.6
85°	101.0	186.7	320.5	423.8	461.3
87.5°	26.8	120.9	249.4	348.1	386.3
90°	0.8	69.6	189.0	283.8	318.2
92.5°	0.8	39.0	140.8	225.7	260.9
95°	0.8	18.4	97.9	177.5	205.0
97.5°	0.8	7.7	67.3	133.9	161.4
100°	0.8	3.8	42.8	97.2	120.9
102.5°	1.5	2.3	26.8	69.6	88.7
105°	1.5	2.3	16.1	47.4	63.5



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CATALOG NUMBER: HVSL8-8-LD4-2LO-35-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	2.3	3.1	13.0	19.1
115°	2.3	2.3	3.1	8.4	12.2
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°	1.5	2.3	9.2	32.1	43.6
110°	2.3	2.3	5.4	19.9	29.1



(END OF REPORT)