

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: P580206

Luminaire Tested: **HVSL12-4-LD4-2HI-35-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580206
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: HVSL12-4-LD4-2HI-35-UNV-O-EDD
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

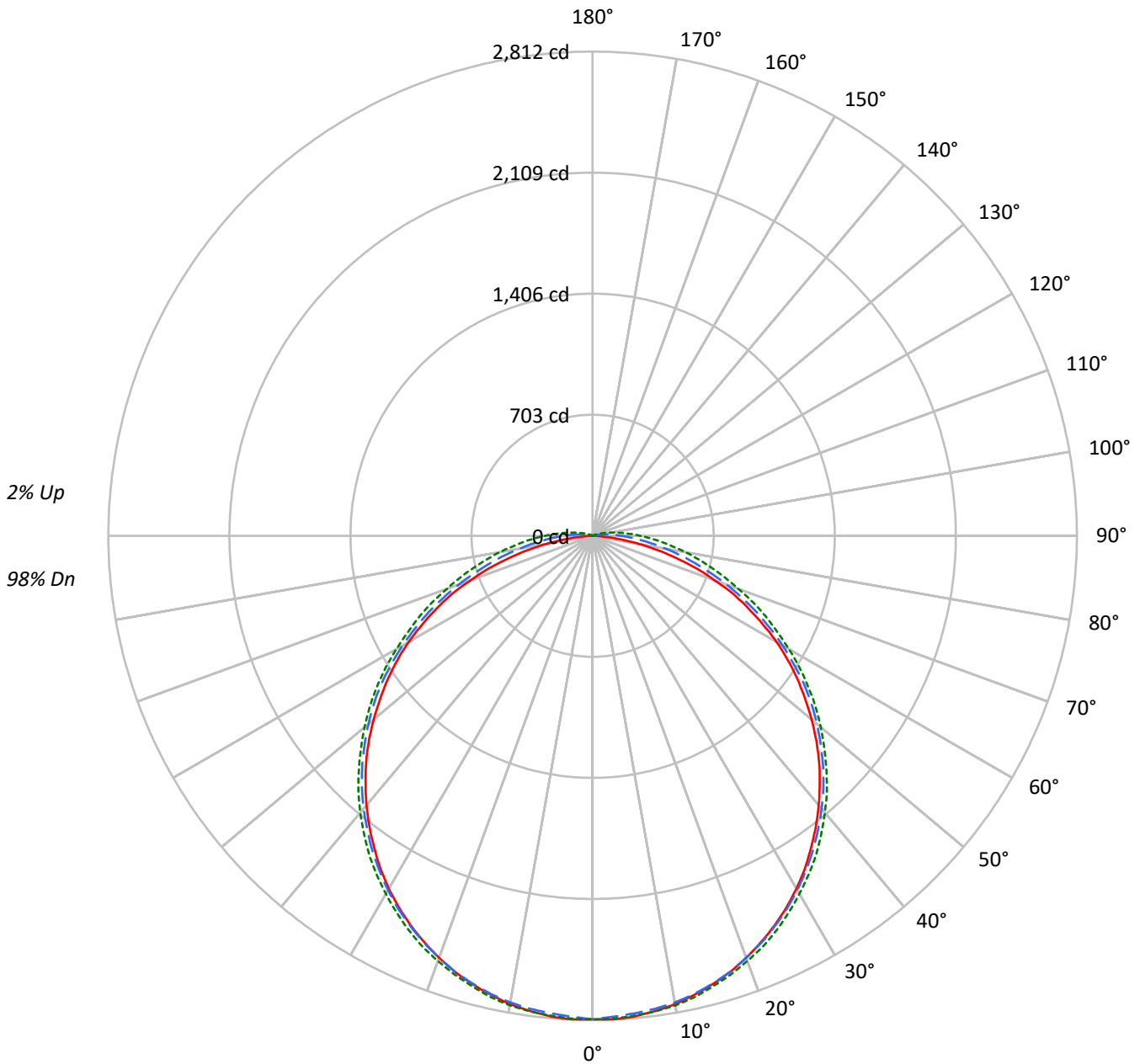
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8491.0 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 91.2
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°	7557	7557	7557
5°	7543	7426	7449
10°	7492	7329	7351
15°	7427	7218	7221
20°	7358	7088	7094
25°	7275	6953	6964
30°	7179	6806	6808
35°	7058	6642	6654
40°	6932	6468	6467
45°	6796	6276	6262
50°	6619	6050	6039
55°	6429	5799	5790
60°	6201	5461	5491
65°	5832	5080	5201
70°	5300	4623	4859
75°	4545	4122	4574
80°	3419	3644	4361
85°	1828	3191	4242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.8	3.1
10°-20°	762.3	9.0
20°-30°	1156.7	13.6
30°-40°	1398.6	16.5
40°-50°	1459.3	17.2
50°-60°	1334.3	15.7
60°-70°	1040.1	12.2
70°-80°	650.6	7.7
80°-90°	295.5	3.5
90°-100°	99.1	1.2
100°-110°	24.9	0.3
110°-120°	3.9	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°	2184.7	25.7
0°-40°	3583.3	42.2
0°-60°	6376.9	75.1
0°-90°	8363.2	98.5
90°-120°	127.8	1.5
90°-150°	127.8	1.5
90°-180°	128.0	1.5
0°-180°	8491.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2808	2808	2808	2808	2808	
5°	2802	2797	2784	2798	2798	266
15°	2696	2700	2693	2708	2708	761
25°	2498	2500	2502	2524	2528	1151
35°	2211	2221	2230	2253	2262	1384
45°	1860	1877	1892	1911	1920	1433
55°	1452	1469	1496	1518	1528	1297
65°	998	1015	1050	1092	1109	987
75°	505	536	614	688	714	538
85°	87	162	277	367	399	111
90°	1	60	164	246	275	3
95°	1	16	85	154	177	1
105°	1	2	14	41	55	1
115°	2	2	3	7	11	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: P580206

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2808.3	2808.3	2808.3	2808.3	2808.3
2.5°	2811.6	2807.6	2795.1	2807.6	2807.0
5°	2802.4	2797.1	2784.5	2797.7	2797.7
7.5°	2783.8	2781.8	2770.6	2785.8	2785.8
10°	2762.0	2761.3	2752.0	2768.6	2769.3
12.5°	2731.5	2734.2	2725.6	2741.4	2743.4
15°	2695.8	2700.4	2693.1	2708.3	2707.7
17.5°	2656.7	2659.4	2654.1	2671.3	2670.6
20°	2608.4	2611.7	2607.7	2625.6	2627.6
22.5°	2554.8	2559.4	2558.7	2577.3	2582.6
25°	2497.8	2499.8	2502.5	2523.6	2527.6
27.5°	2434.9	2438.2	2442.9	2462.1	2466.0
30°	2366.1	2371.4	2376.7	2396.5	2401.8
32.5°	2293.3	2298.6	2305.2	2331.0	2333.6
35°	2211.2	2221.1	2230.4	2252.9	2262.1
37.5°	2129.1	2141.7	2150.3	2174.1	2181.4
40°	2042.3	2054.9	2068.8	2094.0	2098.6
42.5°	1951.6	1966.2	1982.8	2005.3	2013.2
45°	1860.3	1876.8	1892.1	1910.6	1919.9
47.5°	1761.6	1778.2	1796.7	1817.9	1823.9
50°	1659.7	1678.9	1698.8	1718.6	1729.2
52.5°	1555.1	1578.3	1600.8	1622.0	1631.9
55°	1451.8	1469.0	1496.2	1518.0	1528.0
57.5°	1344.6	1359.1	1383.6	1419.4	1424.7
60°	1235.3	1248.6	1273.7	1302.9	1314.8
62.5°	1114.9	1132.7	1159.2	1196.3	1206.9
65°	997.7	1014.9	1050.0	1091.7	1108.9
67.5°	884.5	890.4	935.4	979.1	1006.9
70°	750.7	773.2	825.5	879.2	900.4
72.5°	635.5	658.1	715.6	778.5	805.0
75°	505.1	536.2	614.4	687.8	713.7
77.5°	390.6	425.0	521.7	595.8	625.6
80°	272.8	326.4	431.6	515.1	547.5
82.5°	171.5	237.7	350.2	437.6	466.1
85°	87.4	161.5	277.4	366.8	399.2
87.5°	23.2	104.6	215.8	301.2	334.3
90°	0.7	60.2	163.5	245.6	275.4
92.5°	0.7	33.8	121.8	195.3	225.8
95°	0.7	15.9	84.7	153.6	177.4
97.5°	0.7	6.6	58.3	115.9	139.7
100°	0.7	3.3	37.1	84.1	104.6
102.5°	1.3	2.0	23.2	60.2	76.8
105°	1.3	2.0	13.9	41.0	54.9



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CATALOG NUMBER: HVSL12-4-LD4-2HI-35-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	2.0	2.6	11.3	16.6
115°	2.0	2.0	2.6	7.3	10.6
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°	1.3	2.0	7.9	27.8	37.7
110°	2.0	2.0	4.6	17.2	25.2



(END OF REPORT)