

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: P580240

Luminaire Tested: **HVSL12-4-LD4-3LO-40-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580240
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-LD4-3LO-40-UNV-O-EDD
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

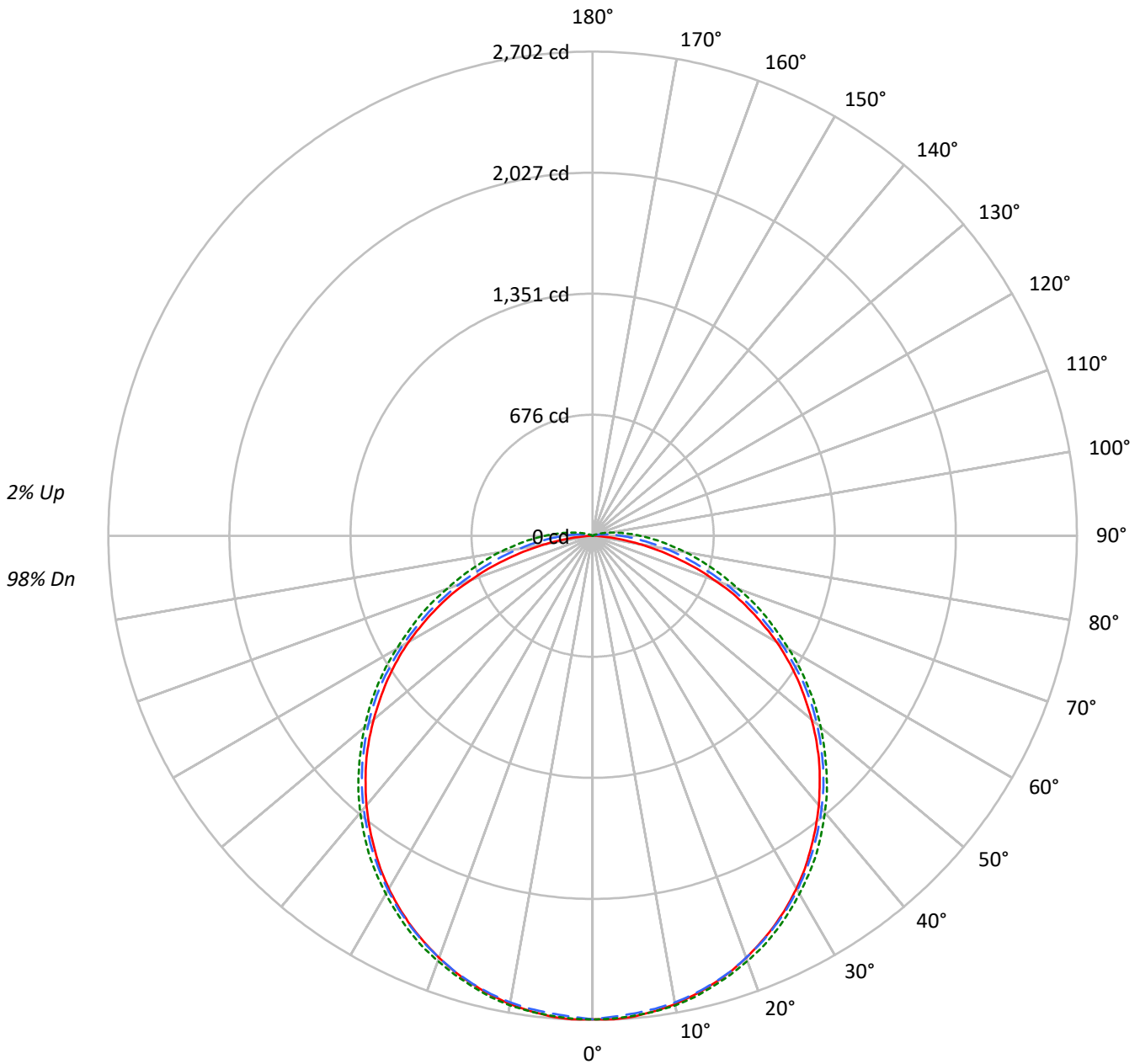
Lumens per Lamp: N/A
Luminaire Lumens: 8159.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 71.4
Input Voltage (V): NR
Input Current (A_{in}): 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°	7262	7262	7262
5°	7248	7136	7157
10°	7199	7043	7064
15°	7137	6936	6938
20°	7070	6811	6817
25°	6991	6681	6691
30°	6899	6540	6542
35°	6782	6382	6394
40°	6661	6215	6215
45°	6531	6030	6017
50°	6361	5813	5803
55°	6178	5572	5564
60°	5958	5248	5276
65°	5604	4882	4998
70°	5093	4443	4668
75°	4367	3960	4396
80°	3285	3502	4191
85°	1757	3066	4077



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.4	3.1
10°-20°	732.5	9.0
20°-30°	1111.4	13.6
30°-40°	1343.9	16.5
40°-50°	1402.3	17.2
50°-60°	1282.1	15.7
60°-70°	999.5	12.2
70°-80°	625.2	7.7
80°-90°	284.0	3.5
90°-100°	95.2	1.2
100°-110°	23.9	0.3
110°-120°	3.8	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°	2099.3	25.7
0°-40°	3443.2	42.2
0°-60°	6127.6	75.1
0°-90°	8036.2	98.5
90°-120°	122.8	1.5
90°-150°	122.8	1.5
90°-180°	123.0	1.5
0°-180°	8159.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2698	2698	2698	2698	2698	
5°	2693	2688	2676	2688	2688	256
15°	2590	2595	2588	2602	2602	731
25°	2400	2402	2405	2425	2429	1106
35°	2125	2134	2143	2165	2174	1330
45°	1788	1804	1818	1836	1845	1377
55°	1395	1412	1438	1459	1468	1246
65°	959	975	1009	1049	1066	949
75°	485	515	590	661	686	517
85°	84	155	266	352	384	106
90°	1	58	157	236	265	3
95°	1	15	81	148	170	0
105°	1	2	13	39	53	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: P580240

CATALOG NUMBER: HVSL12-4-LD4-3LO-40-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2698.5	2698.5	2698.5	2698.5	2698.5
2.5°	2701.7	2697.9	2685.8	2697.9	2697.2
5°	2692.8	2687.7	2675.6	2688.3	2688.3
7.5°	2675.0	2673.1	2662.2	2676.9	2676.9
10°	2654.0	2653.3	2644.4	2660.3	2661.0
12.5°	2624.7	2627.3	2619.0	2634.3	2636.2
15°	2590.4	2594.8	2587.8	2602.4	2601.8
17.5°	2552.8	2555.4	2550.3	2566.8	2566.2
20°	2506.4	2509.6	2505.8	2522.9	2524.8
22.5°	2454.9	2459.3	2458.7	2476.5	2481.6
25°	2400.2	2402.1	2404.6	2425.0	2428.8
27.5°	2339.7	2342.9	2347.4	2365.8	2369.6
30°	2273.6	2278.7	2283.7	2302.8	2307.9
32.5°	2203.6	2208.7	2215.0	2239.8	2242.4
35°	2124.7	2134.2	2143.2	2164.8	2173.7
37.5°	2045.8	2057.9	2066.2	2089.1	2096.1
40°	1962.5	1974.6	1987.9	2012.1	2016.6
42.5°	1875.3	1889.3	1905.2	1926.9	1934.5
45°	1787.6	1803.5	1818.1	1835.9	1844.8
47.5°	1692.8	1708.7	1726.5	1746.8	1752.6
50°	1594.8	1613.3	1632.3	1651.4	1661.6
52.5°	1494.3	1516.6	1538.2	1558.5	1568.1
55°	1395.1	1411.6	1437.7	1458.7	1468.2
57.5°	1292.0	1306.0	1329.5	1363.9	1369.0
60°	1187.0	1199.8	1223.9	1251.9	1263.4
62.5°	1071.3	1088.4	1113.9	1149.5	1159.7
65°	958.7	975.2	1008.9	1049.0	1065.5
67.5°	849.9	855.6	898.9	940.9	967.6
70°	721.4	743.0	793.3	844.8	865.1
72.5°	610.7	632.3	687.7	748.1	773.5
75°	485.4	515.3	590.3	660.9	685.8
77.5°	375.3	408.4	501.3	572.5	601.2
80°	262.1	313.6	414.8	494.9	526.1
82.5°	164.8	228.4	336.5	420.5	447.8
85°	84.0	155.2	266.5	352.4	383.6
87.5°	22.3	100.5	207.4	289.4	321.3
90°	0.6	57.9	157.1	236.0	264.6
92.5°	0.6	32.4	117.0	187.7	216.9
95°	0.6	15.3	81.4	147.6	170.5
97.5°	0.6	6.4	56.0	111.3	134.2
100°	0.6	3.2	35.6	80.8	100.5
102.5°	1.3	1.9	22.3	57.9	73.8
105°	1.3	1.9	13.4	39.4	52.8



TEST NUMBER: P580240

CATALOG NUMBER: HVSL12-4-LD4-3LO-40-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	1.9	2.5	10.8	15.9
115°	1.9	1.9	2.5	7.0	10.2
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°	1.3	1.9	7.6	26.7	36.3
110°	1.9	1.9	4.5	16.5	24.2



(END OF REPORT)