

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: P580246

Luminaire Tested: **HVSL12-4-LD4-3STD-35-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580246
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-LD4-3STD-35-UNV-O-EDD
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

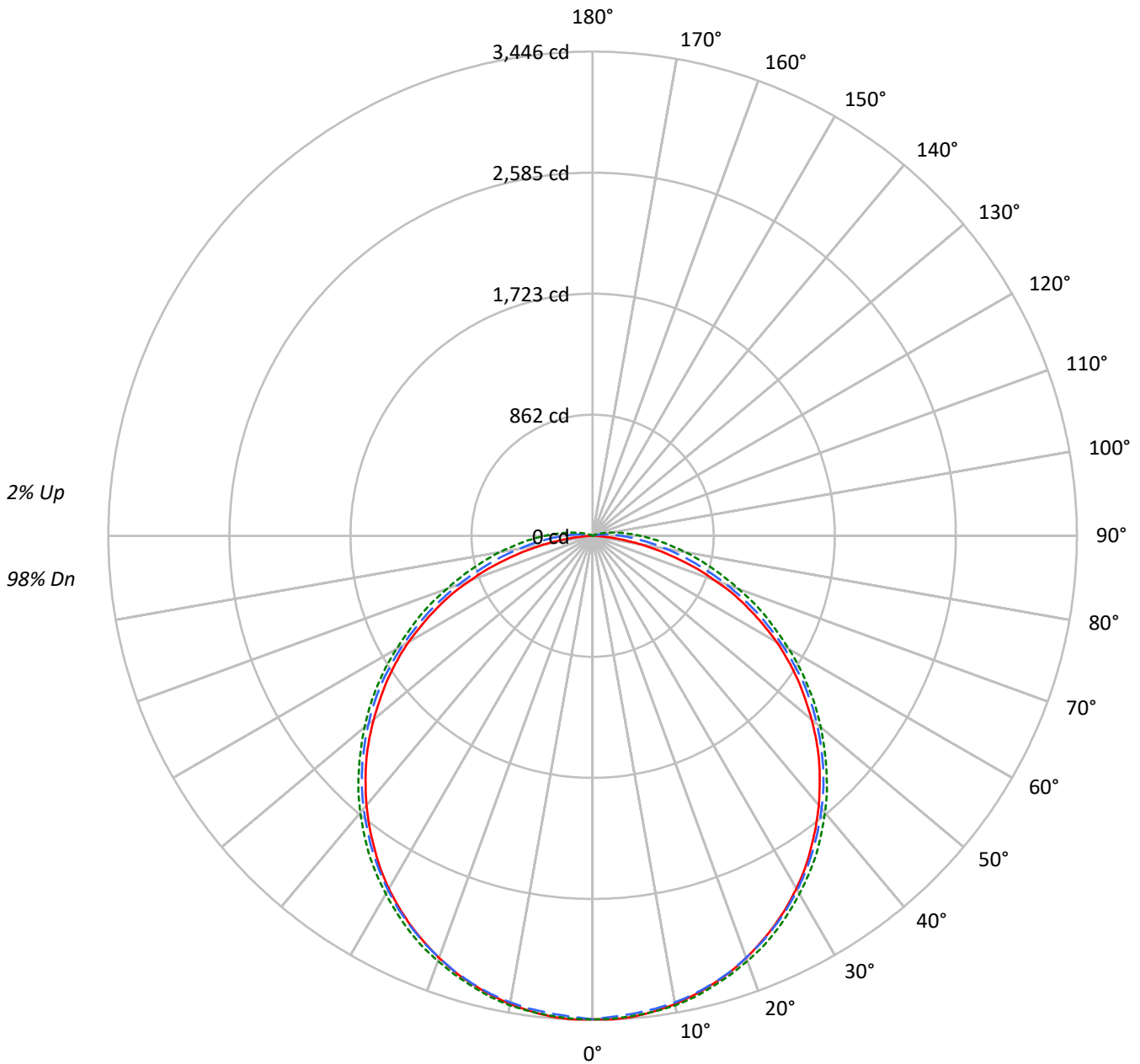
Lumens per Lamp: N/A
Luminaire Lumens: 10406.0 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 101.1
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

TEST NUMBER: P580246

CATALOG NUMBER: HVSL12-4-LD4-3STD-35-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580246

CATALOG NUMBER: HVSL12-4-LD4-3STD-35-UNV-O-EDD

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°	9262	9262	9262
5°	9243	9101	9129
10°	9182	8983	9009
15°	9102	8846	8849
20°	9018	8686	8694
25°	8916	8520	8534
30°	8798	8341	8343
35°	8650	8140	8155
40°	8496	7926	7926
45°	8329	7691	7675
50°	8112	7414	7401
55°	7879	7107	7096
60°	7599	6693	6729
65°	7147	6226	6374
70°	6496	5666	5954
75°	5570	5051	5606
80°	4190	4466	5345
85°	2240	3910	5199



TEST NUMBER: P580246

CATALOG NUMBER: HVSL12-4-LD4-3STD-35-UNV-O-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.7	3.1
10°-20°	934.2	9.0
20°-30°	1417.5	13.6
30°-40°	1714.0	16.5
40°-50°	1788.4	17.2
50°-60°	1635.2	15.7
60°-70°	1274.7	12.2
70°-80°	797.4	7.7
80°-90°	362.2	3.5
90°-100°	121.4	1.2
100°-110°	30.5	0.3
110°-120°	4.8	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°	2677.4	25.7
0°-40°	4391.4	42.2
0°-60°	7815.1	75.1
0°-90°	10249.3	98.5
90°-120°	156.6	1.5
90°-150°	156.6	1.5
90°-180°	157.0	1.5
0°-180°	10406.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3442	3442	3442	3442	3442	
5°	3434	3428	3412	3429	3429	326
15°	3304	3309	3300	3319	3318	933
25°	3061	3064	3067	3093	3098	1411
35°	2710	2722	2733	2761	2772	1696
45°	2280	2300	2319	2342	2353	1757
55°	1779	1800	1834	1860	1873	1590
65°	1223	1244	1287	1338	1359	1210
75°	619	657	753	843	875	660
85°	107	198	340	450	489	136
90°	1	74	200	301	338	4
95°	1	20	104	188	217	1
105°	2	2	17	50	67	2
115°	2	2	3	9	13	2
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: P580246

CATALOG NUMBER: HVSL12-4-LD4-3STD-35-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3441.7	3441.7	3441.7	3441.7	3441.7
2.5°	3445.7	3440.9	3425.4	3440.9	3440.1
5°	3434.4	3427.9	3412.5	3428.7	3428.7
7.5°	3411.7	3409.2	3395.4	3414.1	3414.1
10°	3384.9	3384.1	3372.7	3393.0	3393.8
12.5°	3347.6	3350.8	3340.3	3359.7	3362.2
15°	3303.7	3309.4	3300.5	3319.2	3318.4
17.5°	3255.9	3259.1	3252.6	3273.7	3272.9
20°	3196.7	3200.7	3195.8	3217.7	3220.2
22.5°	3130.9	3136.6	3135.8	3158.5	3165.0
25°	3061.2	3063.6	3066.8	3092.8	3097.7
27.5°	2984.1	2988.1	2993.8	3017.3	3022.2
30°	2899.7	2906.2	2912.7	2937.0	2943.5
32.5°	2810.5	2816.9	2825.1	2856.7	2860.0
35°	2709.9	2722.0	2733.4	2761.0	2772.3
37.5°	2609.2	2624.7	2635.2	2664.4	2673.3
40°	2503.0	2518.4	2535.4	2566.2	2571.9
42.5°	2391.8	2409.7	2429.9	2457.5	2467.3
45°	2279.8	2300.1	2318.8	2341.5	2352.9
47.5°	2159.0	2179.2	2202.0	2227.9	2235.2
50°	2034.0	2057.5	2081.9	2106.2	2119.2
52.5°	1905.8	1934.2	1961.8	1987.8	1999.9
55°	1779.3	1800.3	1833.6	1860.4	1872.6
57.5°	1647.8	1665.7	1695.7	1739.5	1746.0
60°	1513.9	1530.2	1561.0	1596.7	1611.3
62.5°	1366.3	1388.2	1420.6	1466.1	1479.1
65°	1222.7	1243.8	1286.8	1337.9	1359.0
67.5°	1083.9	1091.2	1146.4	1200.0	1234.0
70°	920.1	947.6	1011.7	1077.5	1103.4
72.5°	778.9	806.5	877.1	954.1	986.6
75°	619.0	657.2	752.9	843.0	874.6
77.5°	478.7	520.9	639.3	730.2	766.7
80°	334.3	400.0	529.0	631.2	671.0
82.5°	210.1	291.3	429.2	536.3	571.2
85°	107.1	198.0	339.9	449.5	489.2
87.5°	28.4	128.2	264.5	369.2	409.7
90°	0.8	73.8	200.4	301.0	337.5
92.5°	0.8	41.4	149.3	239.3	276.7
95°	0.8	19.5	103.9	188.2	217.4
97.5°	0.8	8.1	71.4	142.0	171.2
100°	0.8	4.1	45.4	103.0	128.2
102.5°	1.6	2.4	28.4	73.8	94.1
105°	1.6	2.4	17.0	50.3	67.3



TEST NUMBER: P580246

CATALOG NUMBER: HVSL12-4-LD4-3STD-35-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	2.4	3.2	13.8	20.3
115°	2.4	2.4	3.2	8.9	13.0
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°	1.6	2.4	9.7	34.1	46.2
110°	2.4	2.4	5.7	21.1	30.8



(END OF REPORT)