

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: P580306

Luminaire Tested: **HVSL12-8-LD4-3HI-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580306
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: HVSL12-8-LD4-3HI-50-UNV-O-EDD
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

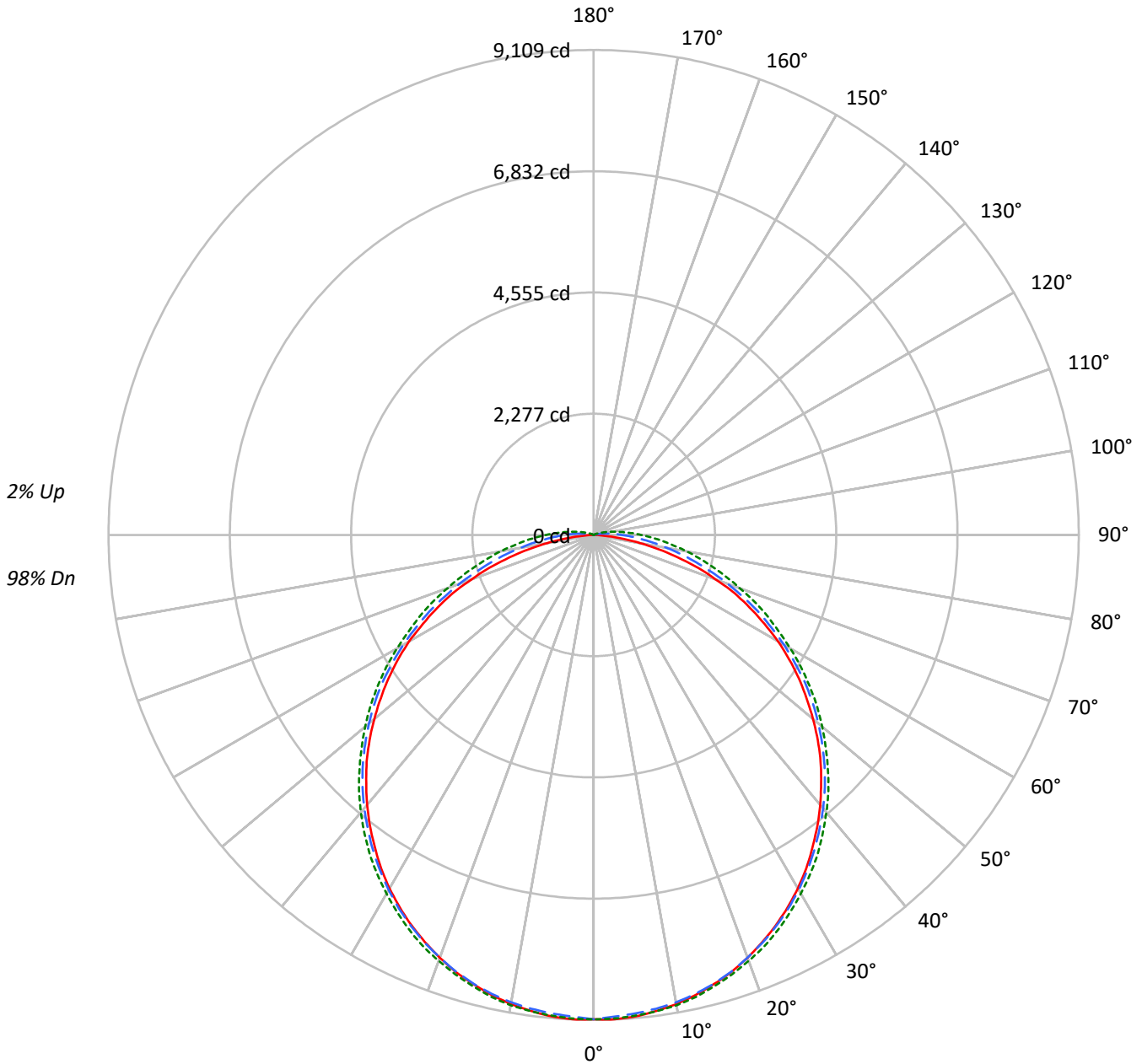
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27509.0 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: 1' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 266.6
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: P580306
CATALOG NUMBER: HVSL12-8-LD4-3HI-50-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580306

CATALOG NUMBER: HVSL12-8-LD4-3HI-50-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°	12242	12242	12242
5°	12240	12044	12066
10°	12181	11903	11908
15°	12098	11737	11697
20°	12009	11540	11492
25°	11898	11335	11280
30°	11768	11112	11028
35°	11597	10860	10780
40°	11422	10594	10477
45°	11234	10298	10144
50°	10983	9948	9783
55°	10715	9560	9379
60°	10395	9030	8894
65°	9850	8432	8426
70°	9050	7712	7871
75°	7894	6922	7410
80°	6124	6184	7065
85°	3530	5515	6872



TEST NUMBER: P580306

CATALOG NUMBER: HVSL12-8-LD4-3HI-50-UNV-O-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	861.0	3.1
10°-20°	2469.7	9.0
20°-30°	3747.3	13.6
30°-40°	4531.1	16.5
40°-50°	4727.9	17.2
50°-60°	4322.7	15.7
60°-70°	3369.8	12.2
70°-80°	2107.9	7.7
80°-90°	957.4	3.5
90°-100°	320.9	1.2
100°-110°	80.5	0.3
110°-120°	12.7	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°	7078.0	25.7
0°-40°	11609.1	42.2
0°-60°	20659.7	75.1
0°-90°	27094.9	98.5
90°-120°	414.1	1.5
90°-150°	414.1	1.5
90°-180°	414.0	1.5
0°-180°	27509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9098	9098	9098	9098	9098	
5°	9079	9062	9021	9064	9064	862
15°	8734	8749	8725	8774	8772	2465
25°	8092	8099	8107	8176	8189	3729
35°	7164	7196	7226	7299	7329	4484
45°	6027	6081	6130	6190	6220	4644
55°	4704	4759	4847	4918	4950	4202
65°	3232	3288	3402	3537	3593	3198
75°	1636	1737	1990	2228	2312	1744
85°	283	523	899	1188	1293	358
90°	2	195	530	796	892	11
95°	2	52	274	498	575	2
105°	4	6	45	133	178	5
115°	6	6	9	24	34	4
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: P580306

CATALOG NUMBER: HVSL12-8-LD4-3HI-50-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9098.3	9098.3	9098.3	9098.3	9098.3
2.5°	9109.0	9096.2	9055.4	9096.2	9094.0
5°	9079.0	9061.9	9021.1	9064.0	9064.0
7.5°	9019.0	9012.5	8976.1	9025.4	9025.4
10°	8948.2	8946.0	8916.0	8969.6	8971.8
12.5°	8849.5	8858.1	8830.2	8881.7	8888.1
15°	8733.7	8748.7	8725.1	8774.4	8772.3
17.5°	8607.2	8615.7	8598.6	8654.3	8652.2
20°	8450.6	8461.3	8448.4	8506.3	8512.8
22.5°	8276.9	8291.9	8289.7	8349.8	8366.9
25°	8092.4	8098.8	8107.4	8176.0	8188.9
27.5°	7888.6	7899.4	7914.4	7976.6	7989.4
30°	7665.6	7682.7	7699.9	7764.2	7781.4
32.5°	7429.6	7446.8	7468.3	7551.9	7560.5
35°	7163.7	7195.9	7225.9	7298.8	7328.8
37.5°	6897.7	6938.5	6966.4	7043.6	7067.2
40°	6616.8	6657.5	6702.6	6784.1	6799.1
42.5°	6322.9	6370.1	6423.7	6496.7	6522.4
45°	6026.9	6080.6	6129.9	6189.9	6220.0
47.5°	5707.4	5761.0	5821.0	5889.7	5909.0
50°	5377.1	5439.3	5503.6	5567.9	5602.3
52.5°	5038.2	5113.2	5186.2	5254.8	5287.0
55°	4703.6	4759.3	4847.3	4918.1	4950.2
57.5°	4356.1	4403.3	4482.7	4598.5	4615.6
60°	4002.2	4045.1	4126.6	4221.0	4259.6
62.5°	3611.9	3669.8	3755.6	3875.7	3910.0
65°	3232.2	3288.0	3401.7	3536.8	3592.6
67.5°	2865.5	2884.8	3030.6	3172.2	3262.3
70°	2432.2	2505.1	2674.6	2848.3	2917.0
72.5°	2059.0	2131.9	2318.5	2522.3	2608.1
75°	1636.5	1737.3	1990.4	2228.5	2312.1
77.5°	1265.4	1377.0	1690.1	1930.3	2026.9
80°	883.7	1057.4	1398.4	1668.7	1773.8
82.5°	555.5	770.0	1134.6	1417.7	1510.0
85°	283.1	523.3	898.7	1188.2	1293.3
87.5°	75.1	338.9	699.2	975.9	1083.1
90°	2.1	195.2	529.8	795.7	892.2
92.5°	2.1	109.4	394.6	632.7	731.4
95°	2.1	51.5	274.5	497.6	574.8
97.5°	2.1	21.4	188.7	375.3	452.6
100°	2.1	10.7	120.1	272.4	338.9
102.5°	4.3	6.4	75.1	195.2	248.8
105°	4.3	6.4	45.0	133.0	178.0



TEST NUMBER: P580306

CATALOG NUMBER: HVSL12-8-LD4-3HI-50-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.4	6.4	8.6	36.5	53.6
115°	6.4	6.4	8.6	23.6	34.3
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°	4.3	6.4	25.7	90.1	122.3
110°	6.4	6.4	15.0	55.8	81.5



(END OF REPORT)