

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: P580141

Luminaire Tested: **HVSL12-2-LD4-2LO-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580141
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: HVSL12-2-LD4-2LO-35-UNV-O-EDD-90
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

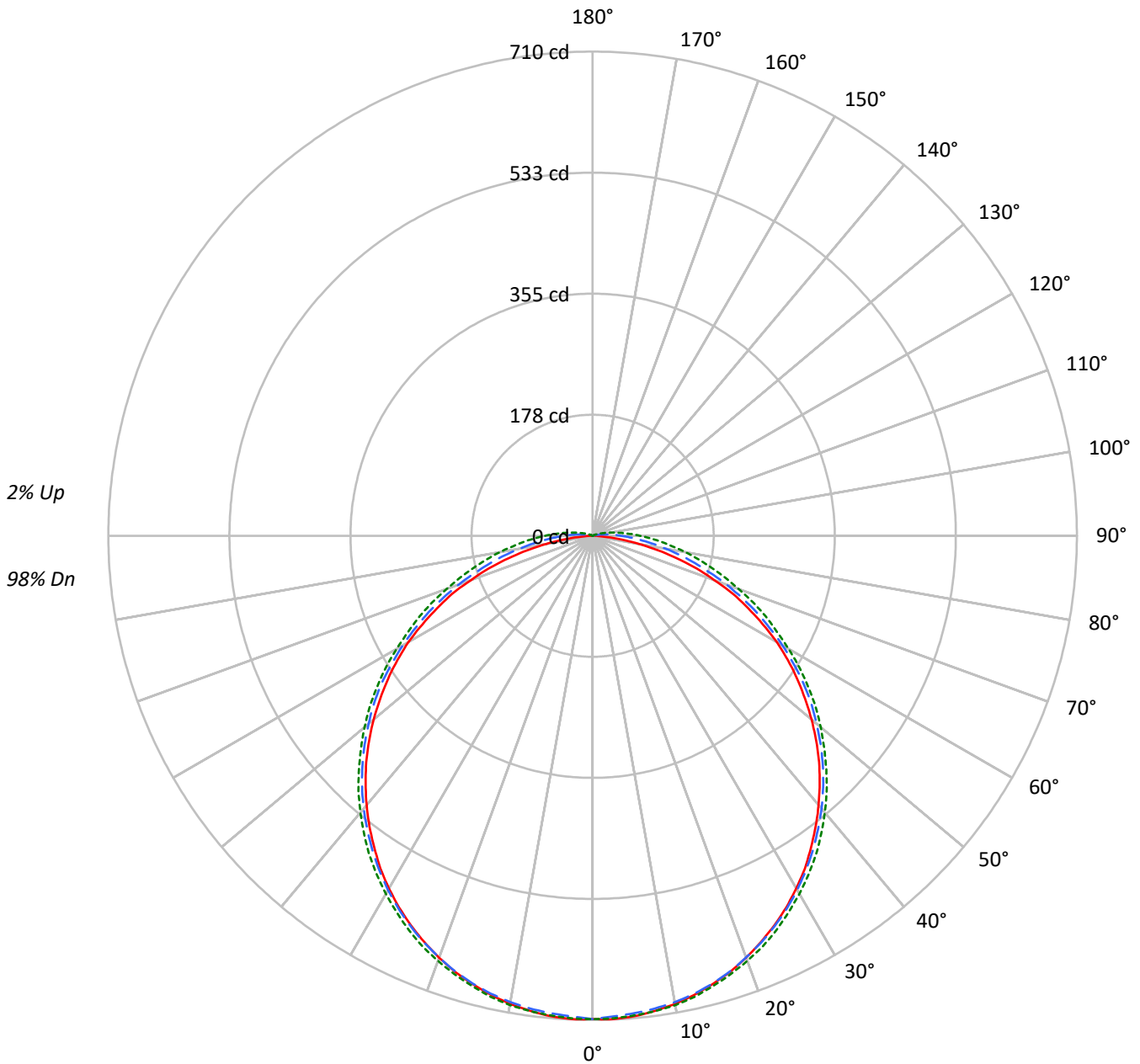
Lumens per Lamp: N/A
Luminaire Lumens: 2143.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 24.4
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				20				20
RC	80				70				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°	3815	3815	3815
5°	3794	3739	3760
10°	3754	3681	3710
15°	3708	3616	3645
20°	3659	3541	3581
25°	3603	3465	3515
30°	3541	3382	3437
35°	3465	3291	3359
40°	3385	3194	3265
45°	3299	3088	3161
50°	3190	2965	3048
55°	3072	2829	2922
60°	2933	2649	2771
65°	2720	2447	2626
70°	2426	2207	2452
75°	2022	1943	2309
80°	1448	1685	2202
85°	699	1431	2142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	3.1
10°-20°	192.4	9.0
20°-30°	291.9	13.6
30°-40°	353.0	16.5
40°-50°	368.3	17.2
50°-60°	336.7	15.7
60°-70°	262.5	12.2
70°-80°	164.2	7.7
80°-90°	74.6	3.5
90°-100°	25.0	1.2
100°-110°	6.3	0.3
110°-120°	1.0	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°	551.4	25.7
0°-40°	904.4	42.2
0°-60°	1609.4	75.1
0°-90°	2110.7	98.5
90°-120°	32.3	1.5
90°-150°	32.3	1.5
90°-180°	32.0	1.5
0°-180°	2143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	709	709	709	709	709	
5°	707	706	703	706	706	67
15°	680	682	680	684	683	192
25°	630	631	632	637	638	290
35°	558	561	563	569	571	349
45°	470	474	478	482	484	362
55°	366	371	378	383	386	327
65°	252	256	265	276	280	249
75°	128	135	155	174	180	136
85°	22	41	70	93	101	28
90°	0	15	41	62	70	1
95°	0	4	21	39	45	0
105°	0	0	4	10	14	0
115°	0	0	1	2	3	0
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°	708.8	708.8	708.8	708.8	708.8
2.5°	709.6	708.6	705.4	708.6	708.4
5°	707.3	705.9	702.8	706.1	706.1
7.5°	702.6	702.1	699.3	703.1	703.1
10°	697.1	696.9	694.6	698.7	698.9
12.5°	689.4	690.1	687.9	691.9	692.4
15°	680.4	681.5	679.7	683.5	683.4
17.5°	670.5	671.2	669.8	674.2	674.0
20°	658.3	659.2	658.1	662.7	663.2
22.5°	644.8	646.0	645.8	650.5	651.8
25°	630.4	630.9	631.6	636.9	637.9
27.5°	614.5	615.4	616.5	621.4	622.4
30°	597.2	598.5	599.8	604.8	606.2
32.5°	578.8	580.1	581.8	588.3	589.0
35°	558.1	560.6	562.9	568.6	570.9
37.5°	537.3	540.5	542.7	548.7	550.5
40°	515.5	518.6	522.1	528.5	529.7
42.5°	492.6	496.2	500.4	506.1	508.1
45°	469.5	473.7	477.5	482.2	484.5
47.5°	444.6	448.8	453.5	458.8	460.3
50°	418.9	423.7	428.7	433.8	436.4
52.5°	392.5	398.3	404.0	409.4	411.9
55°	366.4	370.8	377.6	383.1	385.6
57.5°	339.3	343.0	349.2	358.2	359.6
60°	311.8	315.1	321.5	328.8	331.8
62.5°	281.4	285.9	292.6	301.9	304.6
65°	251.8	256.1	265.0	275.5	279.9
67.5°	223.2	224.7	236.1	247.1	254.1
70°	189.5	195.2	208.4	221.9	227.2
72.5°	160.4	166.1	180.6	196.5	203.2
75°	127.5	135.3	155.1	173.6	180.1
77.5°	98.6	107.3	131.7	150.4	157.9
80°	68.8	82.4	108.9	130.0	138.2
82.5°	43.3	60.0	88.4	110.4	117.6
85°	22.1	40.8	70.0	92.6	100.8
87.5°	5.8	26.4	54.5	76.0	84.4
90°	0.2	15.2	41.3	62.0	69.5
92.5°	0.2	8.5	30.7	49.3	57.0
95°	0.2	4.0	21.4	38.8	44.8
97.5°	0.2	1.7	14.7	29.2	35.3
100°	0.2	0.8	9.4	21.2	26.4
102.5°	0.3	0.5	5.8	15.2	19.4
105°	0.3	0.5	3.5	10.4	13.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	0.5	0.7	2.8	4.2
115°	0.5	0.5	0.7	1.8	2.7
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°	0.3	0.5	2.0	7.0	9.5
110°	0.5	0.5	1.2	4.3	6.3



(END OF REPORT)