

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: P580356

Luminaire Tested: **HVSL2-3-LD4-LO-30-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580356
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: HVSL2-3-LD4-LO-30-UNV-O-EDD
Description: 3 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

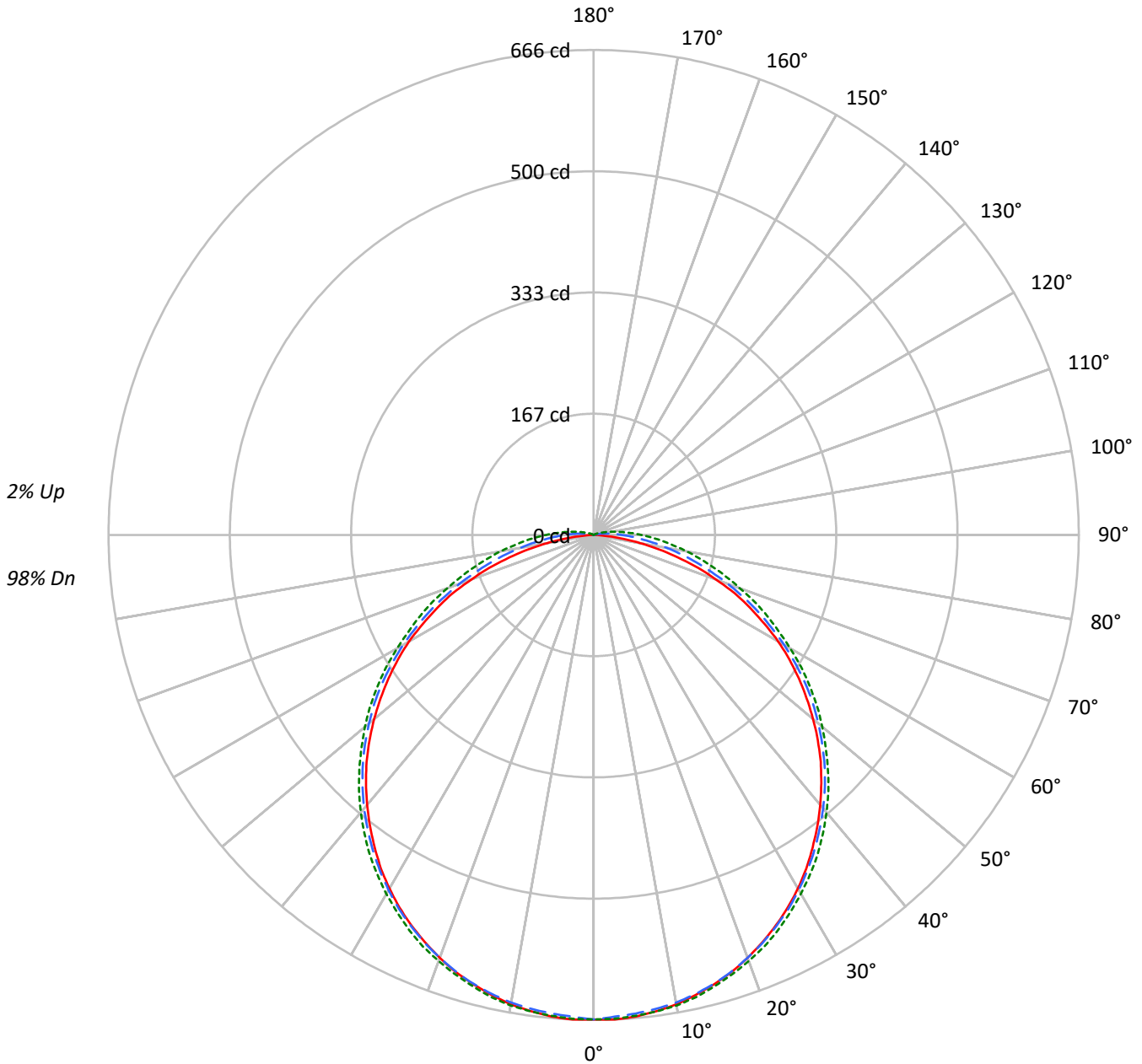
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2012.0 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 17.3
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	
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°	14325	14325	14325
5°	14280	13384	13173
10°	14169	12597	12194
15°	14028	11853	11277
20°	13880	11131	10457
25°	13704	10448	9701
30°	13505	9783	8968
35°	13255	9121	8284
40°	12993	8470	7598
45°	12714	7815	6924
50°	12354	7134	6260
55°	11962	6440	5596
60°	11496	5667	4908
65°	10760	4873	4257
70°	9714	4035	3582
75°	8246	3199	2972
80°	6090	2423	2410
85°	3127	1702	1880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	3.1
10°-20°	180.6	9.0
20°-30°	274.1	13.6
30°-40°	331.4	16.5
40°-50°	345.8	17.2
50°-60°	316.2	15.7
60°-70°	246.5	12.2
70°-80°	154.2	7.7
80°-90°	70.0	3.5
90°-100°	23.5	1.2
100°-110°	5.9	0.3
110°-120°	0.9	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°	517.7	25.7
0°-40°	849.1	42.2
0°-60°	1511.0	75.1
0°-90°	1981.7	98.5
90°-120°	30.3	1.5
90°-150°	30.3	1.5
90°-180°	30.0	1.5
0°-180°	2012.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	665	665	665	665	665	
5°	664	663	660	663	663	63
15°	639	640	638	642	642	180
25°	592	592	593	598	599	273
35°	524	526	528	534	536	328
45°	441	445	448	453	455	340
55°	344	348	354	360	362	307
65°	236	240	249	259	263	234
75°	120	127	146	163	169	128
85°	21	38	66	87	95	26
90°	0	14	39	58	65	1
95°	0	4	20	36	42	0
105°	0	0	3	10	13	0
115°	0	0	1	2	2	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	665.4	665.4	665.4	665.4	665.4
2.5°	666.2	665.3	662.3	665.3	665.1
5°	664.0	662.8	659.8	662.9	662.9
7.5°	659.6	659.2	656.5	660.1	660.1
10°	654.5	654.3	652.1	656.0	656.2
12.5°	647.3	647.9	645.8	649.6	650.1
15°	638.8	639.9	638.2	641.8	641.6
17.5°	629.5	630.2	628.9	633.0	632.8
20°	618.1	618.9	617.9	622.2	622.6
22.5°	605.4	606.5	606.3	610.7	612.0
25°	591.9	592.3	593.0	598.0	598.9
27.5°	577.0	577.8	578.9	583.4	584.3
30°	560.7	561.9	563.2	567.9	569.1
32.5°	543.4	544.7	546.2	552.3	553.0
35°	524.0	526.3	528.5	533.8	536.0
37.5°	504.5	507.5	509.5	515.2	516.9
40°	483.9	486.9	490.2	496.2	497.3
42.5°	462.5	465.9	469.8	475.2	477.0
45°	440.8	444.7	448.3	452.7	454.9
47.5°	417.4	421.4	425.7	430.8	432.2
50°	393.3	397.8	402.5	407.2	409.7
52.5°	368.5	374.0	379.3	384.3	386.7
55°	344.0	348.1	354.5	359.7	362.1
57.5°	318.6	322.1	327.9	336.3	337.6
60°	292.7	295.9	301.8	308.7	311.5
62.5°	264.2	268.4	274.7	283.5	286.0
65°	236.4	240.5	248.8	258.7	262.8
67.5°	209.6	211.0	221.7	232.0	238.6
70°	177.9	183.2	195.6	208.3	213.3
72.5°	150.6	155.9	169.6	184.5	190.8
75°	119.7	127.1	145.6	163.0	169.1
77.5°	92.6	100.7	123.6	141.2	148.2
80°	64.6	77.3	102.3	122.0	129.7
82.5°	40.6	56.3	83.0	103.7	110.4
85°	20.7	38.3	65.7	86.9	94.6
87.5°	5.5	24.8	51.1	71.4	79.2
90°	0.2	14.3	38.7	58.2	65.3
92.5°	0.2	8.0	28.9	46.3	53.5
95°	0.2	3.8	20.1	36.4	42.0
97.5°	0.2	1.6	13.8	27.5	33.1
100°	0.2	0.8	8.8	19.9	24.8
102.5°	0.3	0.5	5.5	14.3	18.2
105°	0.3	0.5	3.3	9.7	13.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	0.5	0.6	2.7	3.9
115°	0.5	0.5	0.6	1.7	2.5
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	1.9	6.6	8.9
110°	0.5	0.5	1.1	4.1	6.0



(END OF REPORT)