

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: P580144

Luminaire Tested: **HVSL12-2-LD4-2LO-40-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580144
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-40-UNV-O-EDD
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

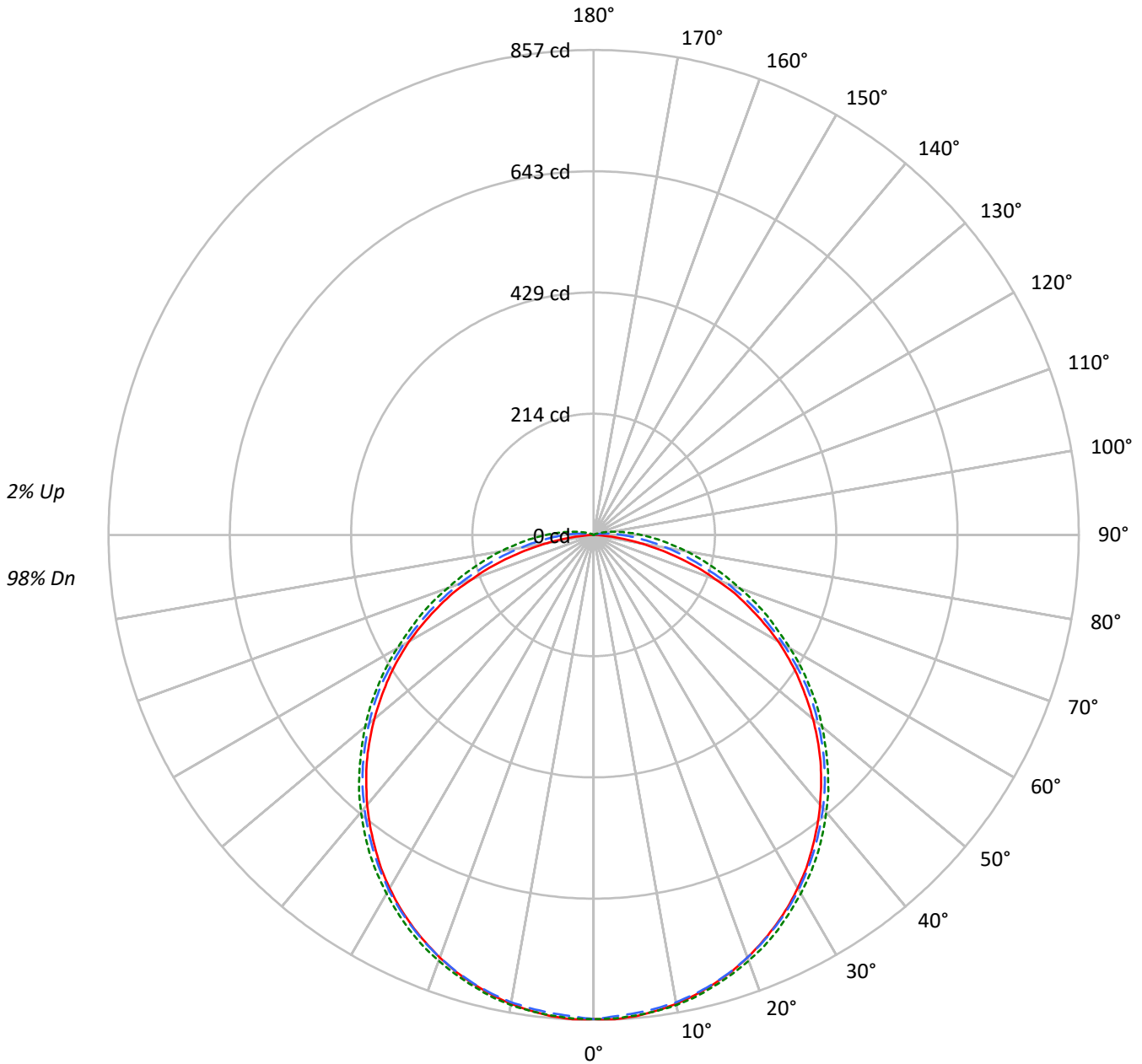
Lumens per Lamp: N/A
Luminaire Lumens: 2587.0 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

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									
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°	4605	4605	4605
5°	4579	4514	4539
10°	4532	4444	4479
15°	4476	4365	4400
20°	4418	4275	4323
25°	4350	4183	4243
30°	4274	4083	4149
35°	4182	3973	4055
40°	4086	3856	3941
45°	3982	3729	3816
50°	3852	3580	3680
55°	3709	3415	3528
60°	3540	3198	3346
65°	3284	2954	3170
70°	2928	2664	2960
75°	2441	2345	2787
80°	1749	2035	2657
85°	841	1727	2584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	3.1
10°-20°	232.3	9.0
20°-30°	352.4	13.6
30°-40°	426.1	16.5
40°-50°	444.6	17.2
50°-60°	406.5	15.7
60°-70°	316.9	12.3
70°-80°	198.2	7.7
80°-90°	90.0	3.5
90°-100°	30.2	1.2
100°-110°	7.6	0.3
110°-120°	1.2	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°	665.6	25.7
0°-40°	1091.7	42.2
0°-60°	1942.9	75.1
0°-90°	2548.1	98.5
90°-120°	38.9	1.5
90°-150°	38.9	1.5
90°-180°	39.0	1.5
0°-180°	2587.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	854	852	848	852	852	81
15°	821	823	820	825	825	232
25°	761	762	762	769	770	351
35°	674	677	680	686	689	422
45°	567	572	576	582	585	437
55°	442	448	456	462	466	395
65°	304	309	320	333	338	301
75°	154	163	187	210	217	164
85°	27	49	84	112	122	34
90°	0	18	50	75	84	1
95°	0	5	26	47	54	0
105°	0	1	4	12	17	0
115°	1	1	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°	855.6	855.6	855.6	855.6	855.6
2.5°	856.6	855.4	851.6	855.4	855.2
5°	853.8	852.2	848.4	852.4	852.4
7.5°	848.2	847.6	844.1	848.8	848.8
10°	841.5	841.3	838.5	843.5	843.7
12.5°	832.2	833.0	830.4	835.3	835.9
15°	821.3	822.7	820.5	825.2	825.0
17.5°	809.4	810.2	808.6	813.9	813.7
20°	794.7	795.7	794.5	800.0	800.6
22.5°	778.4	779.8	779.6	785.2	786.8
25°	761.0	761.6	762.4	768.9	770.1
27.5°	741.9	742.9	744.3	750.1	751.3
30°	720.9	722.5	724.1	730.2	731.8
32.5°	698.7	700.3	702.3	710.2	711.0
35°	673.7	676.7	679.5	686.4	689.2
37.5°	648.7	652.5	655.1	662.4	664.6
40°	622.3	626.1	630.3	638.0	639.4
42.5°	594.6	599.1	604.1	611.0	613.4
45°	566.8	571.8	576.5	582.1	584.9
47.5°	536.7	541.8	547.4	553.9	555.7
50°	505.7	511.5	517.6	523.6	526.8
52.5°	473.8	480.9	487.7	494.2	497.2
55°	442.3	447.6	455.8	462.5	465.5
57.5°	409.7	414.1	421.6	432.5	434.1
60°	376.4	380.4	388.1	397.0	400.6
62.5°	339.7	345.1	353.2	364.5	367.7
65°	304.0	309.2	319.9	332.6	337.9
67.5°	269.5	271.3	285.0	298.3	306.8
70°	228.7	235.6	251.5	267.9	274.3
72.5°	193.6	200.5	218.0	237.2	245.3
75°	153.9	163.4	187.2	209.6	217.4
77.5°	119.0	129.5	158.9	181.5	190.6
80°	83.1	99.4	131.5	156.9	166.8
82.5°	52.2	72.4	106.7	133.3	142.0
85°	26.6	49.2	84.5	111.7	121.6
87.5°	7.1	31.9	65.8	91.8	101.9
90°	0.2	18.4	49.8	74.8	83.9
92.5°	0.2	10.3	37.1	59.5	68.8
95°	0.2	4.8	25.8	46.8	54.1
97.5°	0.2	2.0	17.7	35.3	42.6
100°	0.2	1.0	11.3	25.6	31.9
102.5°	0.4	0.6	7.1	18.4	23.4
105°	0.4	0.6	4.2	12.5	16.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	0.8	3.4	5.0
115°	0.6	0.6	0.8	2.2	3.2
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°	0.4	0.6	2.4	8.5	11.5
110°	0.6	0.6	1.4	5.2	7.7



(END OF REPORT)