

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: P580122

Luminaire Tested: **HVSL12-2-LD4-1LO-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580122
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-LD4-1LO-50-UNV-O-EDD
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

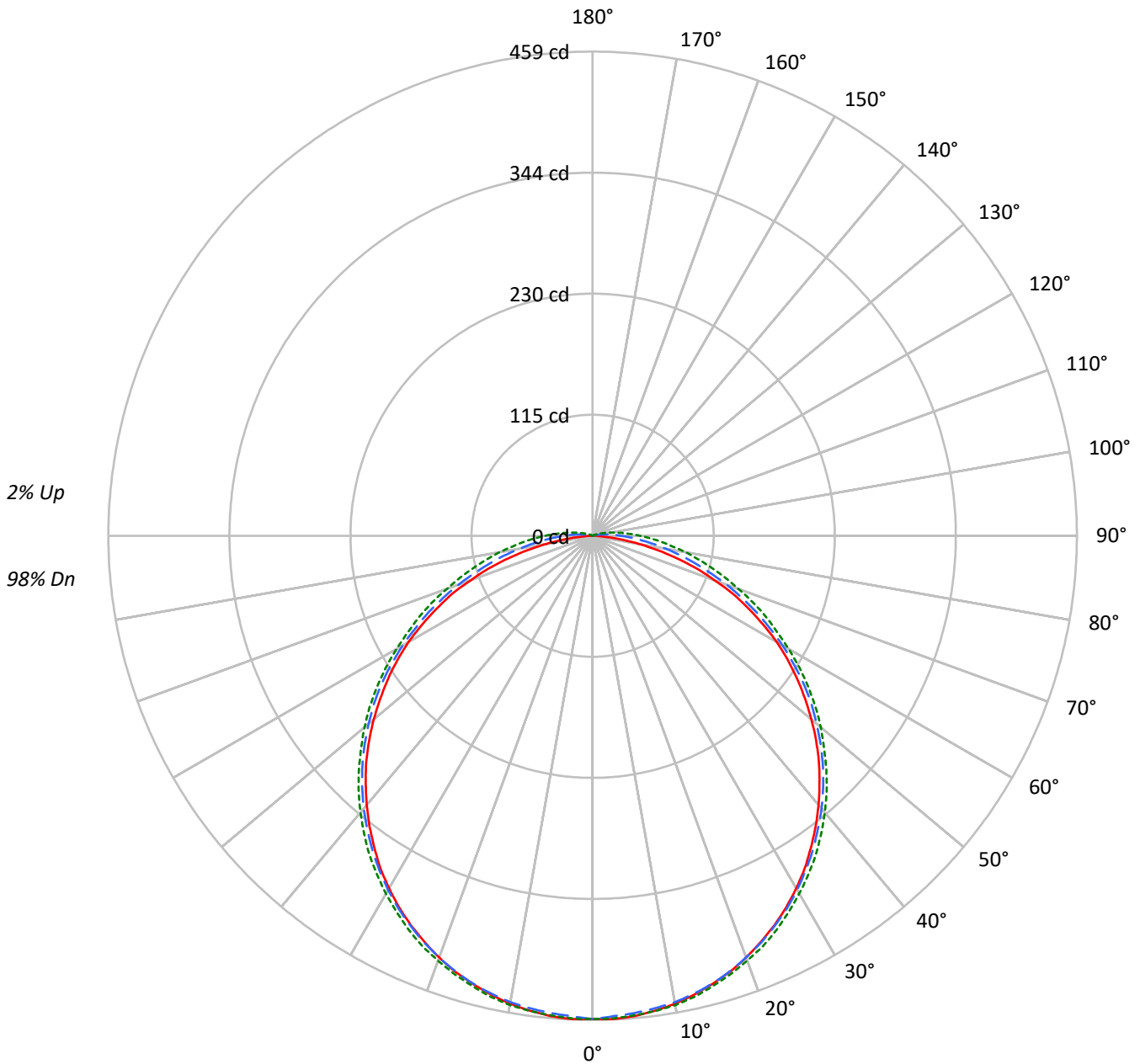
Lumens per Lamp: N/A
Luminaire Lumens: 1385.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 12.2
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°	2465	2465	2465
5°	2452	2416	2430
10°	2426	2379	2398
15°	2396	2337	2356
20°	2365	2289	2314
25°	2329	2239	2272
30°	2288	2186	2221
35°	2239	2127	2171
40°	2187	2065	2110
45°	2132	1996	2043
50°	2062	1916	1971
55°	1986	1828	1889
60°	1895	1712	1792
65°	1758	1582	1697
70°	1568	1427	1585
75°	1307	1255	1492
80°	937	1089	1423
85°	452	924	1384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.3	3.1
10°-20°	124.3	9.0
20°-30°	188.7	13.6
30°-40°	228.1	16.5
40°-50°	238.0	17.2
50°-60°	217.6	15.7
60°-70°	169.7	12.3
70°-80°	106.1	7.7
80°-90°	48.2	3.5
90°-100°	16.2	1.2
100°-110°	4.0	0.3
110°-120°	0.6	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°	356.4	25.7
0°-40°	584.5	42.2
0°-60°	1040.2	75.1
0°-90°	1364.1	98.5
90°-120°	20.8	1.5
90°-150°	20.8	1.5
90°-180°	21.0	1.5
0°-180°	1385.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	458	458	458	458	458	
5°	457	456	454	456	456	43
15°	440	440	439	442	442	124
25°	407	408	408	412	412	188
35°	361	362	364	368	369	226
45°	303	306	309	312	313	234
55°	237	240	244	248	249	212
65°	163	166	171	178	181	161
75°	82	88	100	112	116	88
85°	14	26	45	60	65	18
90°	0	10	27	40	45	1
95°	0	3	14	25	29	0
105°	0	0	2	7	9	0
115°	0	0	0	1	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	458.1	458.1	458.1	458.1	458.1
2.5°	458.6	458.0	455.9	458.0	457.9
5°	457.1	456.2	454.2	456.3	456.3
7.5°	454.1	453.8	451.9	454.4	454.4
10°	450.5	450.4	448.9	451.6	451.7
12.5°	445.5	446.0	444.6	447.2	447.5
15°	439.7	440.5	439.3	441.8	441.7
17.5°	433.3	433.8	432.9	435.7	435.6
20°	425.5	426.0	425.4	428.3	428.6
22.5°	416.7	417.5	417.4	420.4	421.3
25°	407.4	407.8	408.2	411.6	412.3
27.5°	397.2	397.7	398.5	401.6	402.2
30°	385.9	386.8	387.7	390.9	391.8
32.5°	374.1	374.9	376.0	380.2	380.6
35°	360.7	362.3	363.8	367.5	369.0
37.5°	347.3	349.3	350.7	354.6	355.8
40°	333.1	335.2	337.5	341.6	342.3
42.5°	318.3	320.7	323.4	327.1	328.4
45°	303.4	306.1	308.6	311.6	313.2
47.5°	287.3	290.0	293.1	296.5	297.5
50°	270.7	273.9	277.1	280.3	282.1
52.5°	253.7	257.4	261.1	264.6	266.2
55°	236.8	239.6	244.0	247.6	249.2
57.5°	219.3	221.7	225.7	231.5	232.4
60°	201.5	203.7	207.8	212.5	214.5
62.5°	181.8	184.8	189.1	195.1	196.9
65°	162.7	165.5	171.3	178.1	180.9
67.5°	144.3	145.2	152.6	159.7	164.2
70°	122.5	126.1	134.7	143.4	146.9
72.5°	103.7	107.3	116.7	127.0	131.3
75°	82.4	87.5	100.2	112.2	116.4
77.5°	63.7	69.3	85.1	97.2	102.0
80°	44.5	53.2	70.4	84.0	89.3
82.5°	28.0	38.8	57.1	71.4	76.0
85°	14.3	26.3	45.2	59.8	65.1
87.5°	3.8	17.1	35.2	49.1	54.5
90°	0.1	9.8	26.7	40.1	44.9
92.5°	0.1	5.5	19.9	31.9	36.8
95°	0.1	2.6	13.8	25.1	28.9
97.5°	0.1	1.1	9.5	18.9	22.8
100°	0.1	0.5	6.0	13.7	17.1
102.5°	0.2	0.3	3.8	9.8	12.5
105°	0.2	0.3	2.3	6.7	9.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.4	1.8	2.7
115°	0.3	0.3	0.4	1.2	1.7
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°	0.2	0.3	1.3	4.5	6.2
110°	0.3	0.3	0.8	2.8	4.1



(END OF REPORT)