

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: P580121

Luminaire Tested: **HVSL12-2-LD4-1LO-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580121
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-90
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

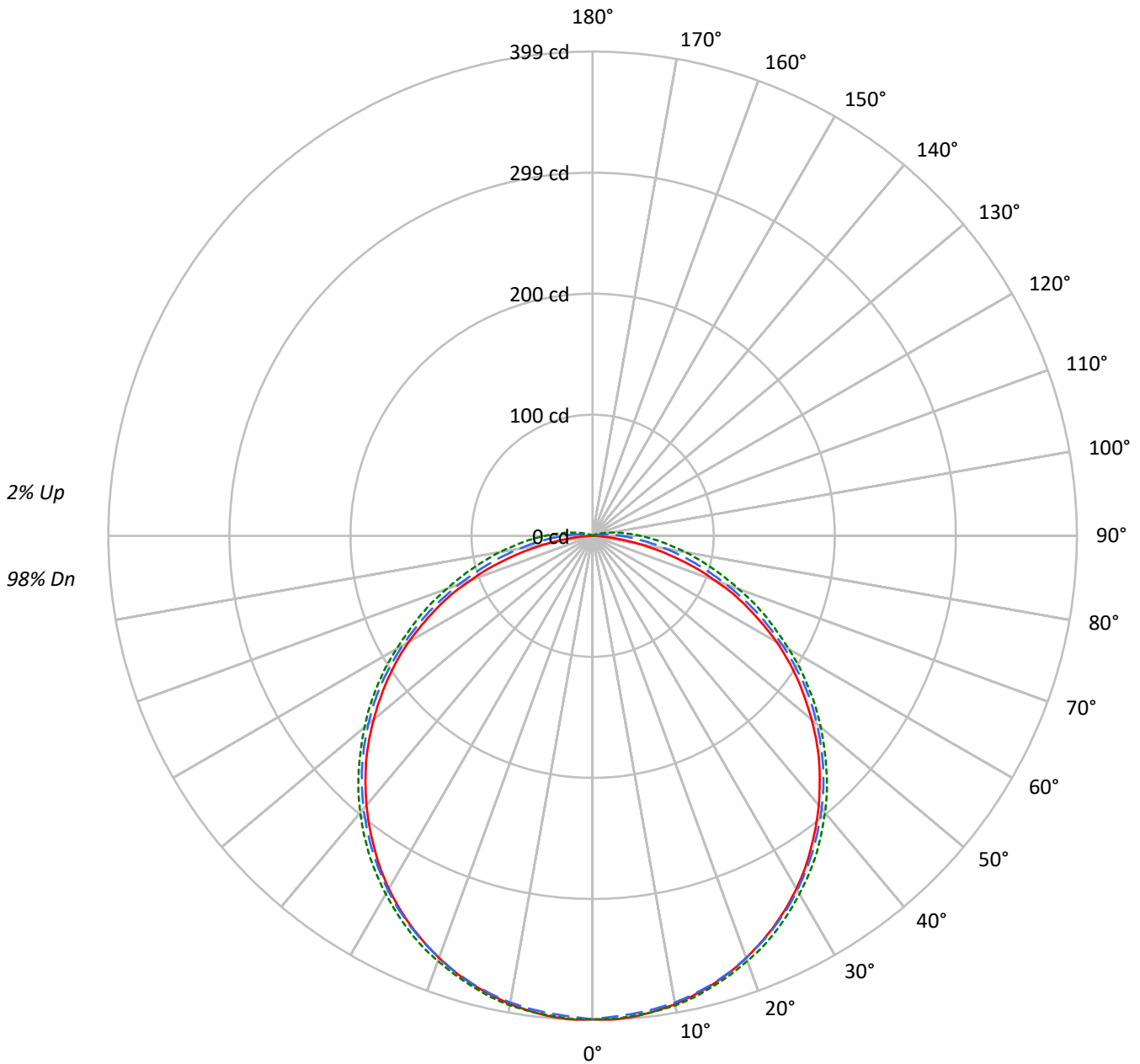
Lumens per Lamp: N/A
Luminaire Lumens: 1205.0 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 12.2
Input Voltage (V): NR
Input Current (A_{in}): 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°	2145	2145	2145
5°	2133	2103	2114
10°	2111	2070	2086
15°	2085	2033	2050
20°	2058	1992	2014
25°	2026	1948	1976
30°	1991	1902	1933
35°	1948	1850	1889
40°	1903	1796	1835
45°	1855	1737	1778
50°	1794	1667	1714
55°	1727	1590	1643
60°	1649	1490	1559
65°	1530	1376	1477
70°	1364	1241	1379
75°	1137	1092	1299
80°	814	949	1238
85°	392	805	1205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.7	3.1
10°-20°	108.2	9.0
20°-30°	164.1	13.6
30°-40°	198.5	16.5
40°-50°	207.1	17.2
50°-60°	189.4	15.7
60°-70°	147.6	12.3
70°-80°	92.3	7.7
80°-90°	41.9	3.5
90°-100°	14.1	1.2
100°-110°	3.5	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°	310.0	25.7
0°-40°	508.5	42.2
0°-60°	905.0	75.1
0°-90°	1186.9	98.5
90°-120°	18.1	1.5
90°-150°	18.1	1.5
90°-180°	18.0	1.5
0°-180°	1205.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	398	398	398	398	398	
5°	398	397	395	397	397	38
15°	383	383	382	384	384	108
25°	354	355	355	358	359	163
35°	314	315	316	320	321	196
45°	264	266	268	271	272	203
55°	206	208	212	215	217	184
65°	142	144	149	155	157	140
75°	72	76	87	98	101	76
85°	12	23	39	52	57	16
90°	0	8	23	35	39	0
95°	0	2	12	22	25	0
105°	0	0	2	6	8	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	398.5	398.5	398.5	398.5	398.5
2.5°	399.0	398.4	396.7	398.4	398.4
5°	397.7	396.9	395.2	397.0	397.0
7.5°	395.1	394.8	393.2	395.3	395.3
10°	392.0	391.9	390.6	392.9	393.0
12.5°	387.6	388.0	386.8	389.1	389.3
15°	382.6	383.2	382.2	384.4	384.3
17.5°	377.0	377.4	376.7	379.1	379.0
20°	370.2	370.6	370.1	372.6	372.9
22.5°	362.6	363.2	363.1	365.8	366.5
25°	354.5	354.8	355.1	358.1	358.7
27.5°	345.6	346.0	346.7	349.4	350.0
30°	335.8	336.5	337.3	340.1	340.9
32.5°	325.4	326.2	327.1	330.8	331.2
35°	313.8	315.2	316.5	319.7	321.0
37.5°	302.1	303.9	305.2	308.5	309.6
40°	289.8	291.6	293.6	297.2	297.8
42.5°	277.0	279.0	281.4	284.6	285.7
45°	264.0	266.4	268.5	271.1	272.5
47.5°	250.0	252.4	255.0	258.0	258.8
50°	235.5	238.3	241.1	243.9	245.4
52.5°	220.7	224.0	227.2	230.2	231.6
55°	206.0	208.5	212.3	215.4	216.8
57.5°	190.8	192.9	196.4	201.4	202.2
60°	175.3	177.2	180.8	184.9	186.6
62.5°	158.2	160.8	164.5	169.8	171.3
65°	141.6	144.0	149.0	154.9	157.4
67.5°	125.5	126.4	132.8	139.0	142.9
70°	106.5	109.7	117.2	124.8	127.8
72.5°	90.2	93.4	101.6	110.5	114.2
75°	71.7	76.1	87.2	97.6	101.3
77.5°	55.4	60.3	74.0	84.6	88.8
80°	38.7	46.3	61.3	73.1	77.7
82.5°	24.3	33.7	49.7	62.1	66.1
85°	12.4	22.9	39.4	52.0	56.7
87.5°	3.3	14.8	30.6	42.7	47.4
90°	0.1	8.5	23.2	34.9	39.1
92.5°	0.1	4.8	17.3	27.7	32.0
95°	0.1	2.3	12.0	21.8	25.2
97.5°	0.1	0.9	8.3	16.4	19.8
100°	0.1	0.5	5.3	11.9	14.8
102.5°	0.2	0.3	3.3	8.5	10.9
105°	0.2	0.3	2.0	5.8	7.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.4	1.6	2.3
115°	0.3	0.3	0.4	1.0	1.5
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°	0.2	0.3	1.1	3.9	5.4
110°	0.3	0.3	0.7	2.4	3.6



(END OF REPORT)