

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: P580117

Luminaire Tested: **HVSL12-2-LD4-1LO-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580117
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-35-UNV-O-EDD-90
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

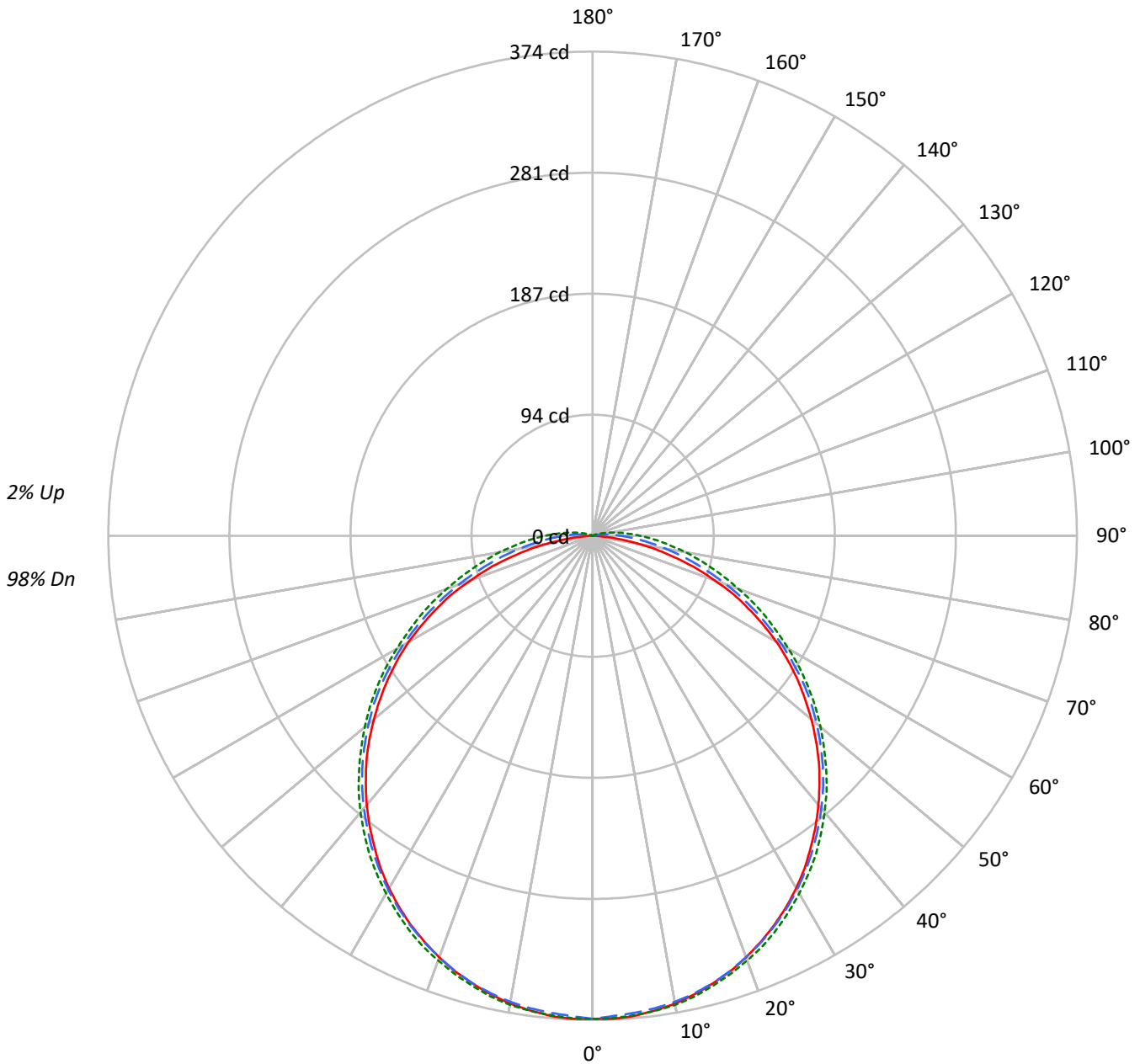
Lumens per Lamp: N/A
Luminaire Lumens: 1128.1 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P580117

CATALOG NUMBER: HVSL12-2-LD4-1LO-35-UNV-O-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P580117

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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°	2008	2008	2008
5°	1997	1968	1979
10°	1976	1938	1953
15°	1952	1903	1918
20°	1926	1864	1885
25°	1897	1824	1850
30°	1864	1780	1809
35°	1823	1732	1768
40°	1781	1681	1718
45°	1736	1626	1664
50°	1679	1561	1604
55°	1617	1489	1539
60°	1544	1394	1459
65°	1431	1288	1382
70°	1277	1162	1291
75°	1064	1022	1215
80°	762	887	1158
85°	367	754	1126



TEST NUMBER: P580117

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	3.1
10°-20°	101.3	9.0
20°-30°	153.7	13.6
30°-40°	185.8	16.5
40°-50°	193.9	17.2
50°-60°	177.3	15.7
60°-70°	138.2	12.2
70°-80°	86.4	7.7
80°-90°	39.3	3.5
90°-100°	13.2	1.2
100°-110°	3.3	0.3
110°-120°	0.5	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°	290.2	25.7
0°-40°	476.0	42.2
0°-60°	847.2	75.1
0°-90°	1111.0	98.5
90°-120°	17.0	1.5
90°-150°	17.0	1.5
90°-180°	17.0	1.5
0°-180°	1128.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	373	373	373	373	373	
5°	372	372	370	372	372	35
15°	358	359	358	360	360	101
25°	332	332	332	335	336	153
35°	294	295	296	299	300	184
45°	247	249	251	254	255	190
55°	193	195	199	202	203	172
65°	132	135	140	145	147	131
75°	67	71	82	91	95	72
85°	12	22	37	49	53	15
90°	0	8	22	33	37	0
95°	0	2	11	20	24	0
105°	0	0	2	6	7	0
115°	0	0	0	1	1	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



TEST NUMBER: P580117

CATALOG NUMBER: HVSL12-2-LD4-1LO-35-UNV-O-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	373.1	373.1	373.1	373.1	373.1
2.5°	373.5	373.0	371.3	373.0	372.9
5°	372.3	371.6	369.9	371.7	371.7
7.5°	369.8	369.6	368.1	370.1	370.1
10°	366.9	366.8	365.6	367.8	367.9
12.5°	362.9	363.2	362.1	364.2	364.5
15°	358.1	358.7	357.8	359.8	359.7
17.5°	352.9	353.3	352.6	354.9	354.8
20°	346.5	347.0	346.4	348.8	349.1
22.5°	339.4	340.0	339.9	342.4	343.1
25°	331.8	332.1	332.4	335.3	335.8
27.5°	323.5	323.9	324.5	327.1	327.6
30°	314.3	315.0	315.7	318.4	319.1
32.5°	304.7	305.4	306.2	309.7	310.0
35°	293.7	295.1	296.3	299.3	300.5
37.5°	282.8	284.5	285.7	288.8	289.8
40°	271.3	273.0	274.8	278.2	278.8
42.5°	259.3	261.2	263.4	266.4	267.4
45°	247.1	249.3	251.4	253.8	255.0
47.5°	234.0	236.2	238.7	241.5	242.3
50°	220.5	223.0	225.7	228.3	229.7
52.5°	206.6	209.7	212.7	215.5	216.8
55°	192.9	195.2	198.8	201.7	203.0
57.5°	178.6	180.6	183.8	188.6	189.3
60°	164.1	165.9	169.2	173.1	174.7
62.5°	148.1	150.5	154.0	158.9	160.3
65°	132.5	134.8	139.5	145.0	147.3
67.5°	117.5	118.3	124.3	130.1	133.8
70°	99.7	102.7	109.7	116.8	119.6
72.5°	84.4	87.4	95.1	103.4	106.9
75°	67.1	71.2	81.6	91.4	94.8
77.5°	51.9	56.5	69.3	79.2	83.1
80°	36.2	43.4	57.3	68.4	72.7
82.5°	22.8	31.6	46.5	58.1	61.9
85°	11.6	21.5	36.9	48.7	53.0
87.5°	3.1	13.9	28.7	40.0	44.4
90°	0.1	8.0	21.7	32.6	36.6
92.5°	0.1	4.5	16.2	25.9	30.0
95°	0.1	2.1	11.3	20.4	23.6
97.5°	0.1	0.9	7.7	15.4	18.6
100°	0.1	0.4	4.9	11.2	13.9
102.5°	0.2	0.3	3.1	8.0	10.2
105°	0.2	0.3	1.8	5.5	7.3



TEST NUMBER: P580117

CATALOG NUMBER: HVSL12-2-LD4-1LO-35-UNV-O-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	0.3	0.4	1.5	2.2
115°	0.3	0.3	0.4	1.0	1.4
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	3.7	5.0
110°	0.3	0.3	0.6	2.3	3.3



(END OF REPORT)