



Changing the Shape of Light™

8850 M89 Richland, MI 49083
269 629 4440 phone 269 629 4439 fax
www.TecNiqInc.com

Certified Test Report - 04072017-1

**LED LICENSE LIGHT
TECNIQ, INC. MODEL L10-Wxxx-1
ONE LED WITH CLEAR LENS**

**"FMVSS-108 LICENSE PLATE LAMP"
SAE J587 APR97
SINGLE LIGHT SOURCE
COLOR: WHITE
SIDE MOUNTED APPLICATION**

----- **PASSES ALL TEST SPECIFICATIONS** -----



L10-Wxxx-1

TESTED BY: Chip Bingham
Summary: L10-Wxxx-1 - FMVSS 108 Conforming
Report Prepared For:
TecNiq, Inc.
Richland, MI

Date: April 7, 2017
Report Certified By:

A handwritten signature in black ink, appearing to read 'Charles Bingham'.

TEST OF LICENSE PLATE LIGHT TECNIQ, INC. MODEL L10-Wxxx-1 ONE LED WITH CLEAR LENS

“FMVSS-108 LICENSE PLATE LAMP”
SAE J587 APR97

(ALL VALUES ARE IN CANDELA)

Photometry: FMVSS-108 (October 2009)

SIDE MOUNTED APPLICATION License Plate Lamp Photometry Requirements

Required Minimum	Test Location	Measurement	Avg of 2 highest values	Ratio
0.75 fc	1	27.72	25.515	17.12 : 1
0.75 fc	2	9.87		
0.75 fc	3	3.91		
0.75 fc	4	1.47	Avg of 2 lowest values	
0.75 fc	5	23.31	1.49	
0.75 fc	6	9.83.		
0.75 fc	7	4.25		
0.75 fc	8	1.51		

“*” Indicates a Failure

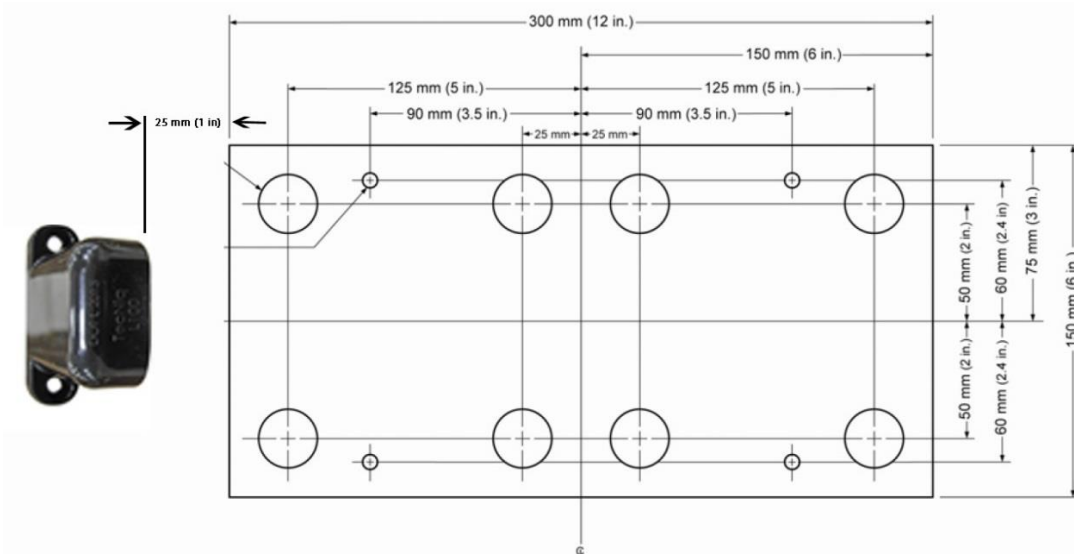
Acceptance Criteria:

S7.7.13.1 Each license plate lamp must be designed to conform to the photometry requirements of this section when tested according to the procedure of S14.2.2.

S7.7.13.2 An illumination value of no less than 8 lx [0.75 fc] must be met at each test station target location shown in Figure 19 (below). S7.7.13.3 The ratio of the average of the two highest illumination values divided by the average of the two lowest illumination values must not exceed 20:1 for vehicles other than motorcycles and motor driven cycles. S7.7.13.4 The ratio of the highest illumination value divided by the average of the two lowest illumination values must not exceed 15:1 for motorcycles and motor driven cycles.

Results:

PASSED



**MOISTURE TEST OF LED SIDE MARKER LIGHT
TECNIQ, INC. MODEL L10-Wxxx-1
ONE LED WITH CLEAR LENS**

Moisture: FMVSS108 (October 2009)

Test Procedure:

Test Method: Exceeds FMVSS 108 (October 2009) S14.5.2.1

Extended Moisture Test: Submerge samples in transparent tank containing water with light chlorine. Remove air from tank to vacuum of 25 in Hg. Air bubbles emanating from lamp or moisture ingress after test indicates failure.

Performance requirements. S14.5.2.2. Accumulation of moisture in excess of 2 cc or any visible moisture in a sealed reflex unit must constitute a failure.

Results:

Passed – No accumulation of moisture apparent in sample.

**DUST TEST OF LED SIDE MARKER LIGHT
TECNIQ, INC. MODEL L10-Wxxx-1
ONE LED WITH CLEAR LENS**

Dust: FMVSS 108 (October 2009)

Dust Test: S14.5.3

Performance requirements. S14.5.3.1 – A sealed unit it not required to meet the requirements of this test. (Note: Corrosion/Moisture/Dust penetration documented in the conformance document.)

Results:

Passed – Samples are sealed units

**VIBRATION / SHOCK SPECIFICATIONS
TECNIQ, INC. MODEL L10-Wxxx-1
ONE LED WITH CLEAR LENS**

**Vibration: FMVSS108 (October 2009),
SAE J575e (August 1970), Section I**

Vibration S14.5.1

Meets all FMVSS specifications

**MATERIAL TEST OF LED SIDE MARKER LIGHT
TECNIQ, INC. MODEL L10-Wxxx-1
ONE LED WITH CLEAR LENS**

Material / UV: FMVSS108 (October 2009), SAE J576 – ASTM D 1003

Plastic optical materials. S14.4.2 all plastic materials used for optical parts such as lenses and reflectors on lamps or reflective devices required or allowed by this standard must conform to the material test requirements of S14.4.2.

Performance requirements. S14.4.2.2.4 Plastic lenses, other than those incorporating reflex reflectors, used for inner lenses or those covered by another material and not exposed directly to sunlight must meet the optical material test requirements when covered by the outer lens or other material.

Results:

Passed — Material used is on the **AMECA** list of acceptable plastics per FMVSS 108 standards.