COMPREHENSIVE NOM

Compliance Services

ENERGY EFFICIENCY

NOM-031-ENER-2019

ENERGY EFFICIENCY FOR LED LUMINAIRES FOR ROAD LIGHTING AND PUBLIC OUTDOOR AREAS. SPECIFICATIONS AND TEST METHODS.



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OBJECTIVE

Establishes the specifications and test methods that promote the efficient use of energy in light-emitting diode (LED) luminaires intended for street lighting and public outdoor areas.

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Lighting fixtures with light-emitting diodes (LEDs), intended for street lighting and public outdoor areas, that are powered by electricity from the public grid, as well as by other energy sources such as batteries, rechargeable batteries, and self-generated power, operating on alternating current (AC) and/or direct current (DC), with a rated voltage of up to 480 V AC and up to 100 V DC.

FIELD OF *Aplication*

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EXCEPTIONS

Products covered by other Mexican Official Standards on energy efficiency, as well as the following LED luminaires, are excluded from the scope of application:

a. For decorative or ornamental lighting in public outdoor areas,

b. For signage,

c. With color-changing or monochromatic light (green, red, yellow, blue, etc.).

d. For installation on the ground, underwater, or in classified or hazardous areas.

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EXAMPLES OF *Products*

- Pole-top luminaires
- Wall luminaires
- Tunnel or underpass luminaires
- Roadway lighting fixtures
- Reflectors

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REQUIREMENTS FOR *Quotation*

- Product description and intended use
- Tariff code (10 digits)
- Technical data sheet with information on lighting output and energy consumption
- Product photos
- If there are two or more models, please provide data sheets for all of them to analyze potential grouping into families, as well as the configuration of the base model (Appendix H)

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CUSTOMER REGISTRATION *Requirements*



- Articles of Incorporation
- Notarized Power of Attorney (if the Legal Representative is not declared in the Article of Incorporation)
- Tax Compliance Certificate (No older than 3 months)
- Proof of Address (No older than 3 months)
- Official ID of the Legal Representative (INE)
- ***Address for Sending Signed Documents:*** Av. Hipódromo 6, San Miguel Xochimanga, 52927 Cdad. López Mateos, Méx.

(To the attention of the person responsible for registrations).

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REQUIREMENTS TO ENTER *Service*

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This NOM has two certification options:
For the certificate of conformity with monitoring through periodic product testing:

- Photographs of each model in the product family.
- Product labeling and packaging labeling for each model in the product family.
- Product warranty or product family warranty.
- Product instructions or product family instructions.
- Technical specifications for each model, describing the features, must be included in the code and/or nomenclature, which must include:

1. Rated luminous flux.
2. Correlated color temperature.
3. Color rendering index.
4. Rated service life
5. Type of distribution curve
6. Luminaire application
7. Rated voltage
8. Product type (new, refurbished)
9. Product images
10. Generic name
11. Base model (Appendix H)
12. Brand
13. F.A.
14. Country of origin
15. Country of provenance
16. Electrical characteristics
17. Diagram, technical data sheet, and/or manual
18. Port of entry
19. Sample(s) (see 12.5.2.1 Table 6)

ESTIMATED SERVICE TIME (CERTIFICATE DELIVERY)



60 business days
(the sample remains in the laboratory for maturation between 40,000 and 75,000 hours)

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ADDRESS FOR SENDING *Samples*

Av. Hipódromo 6, San Miguel Xochimanga, 52927 Cdad. López Mateos, Méx.

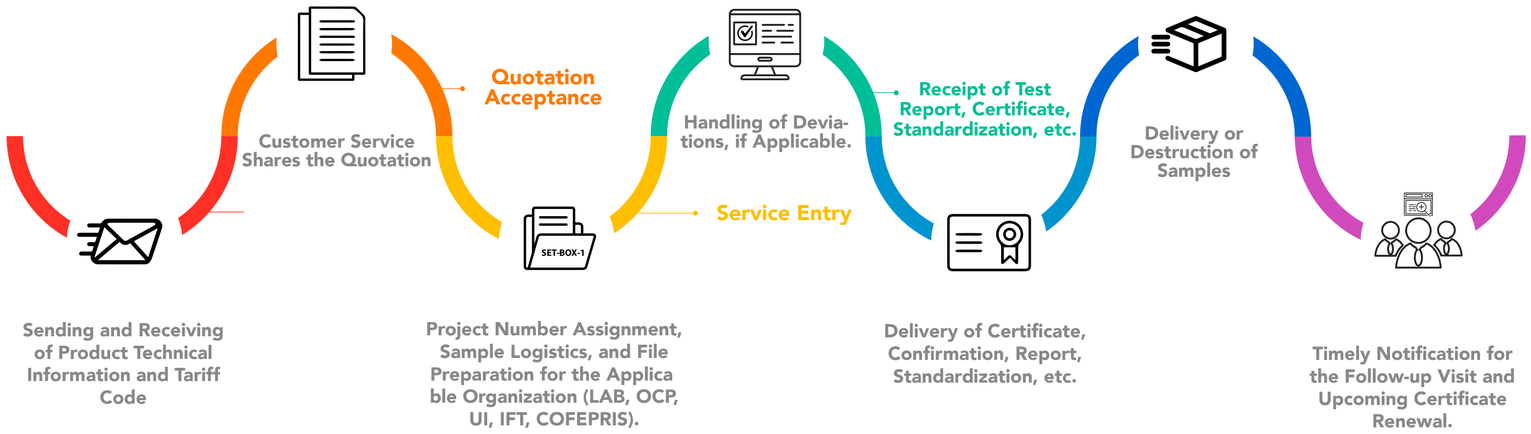
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Contact: Responsible for receiving samples during the shift.
Tel. 55 9342 8914
WS: 56 1001 4009

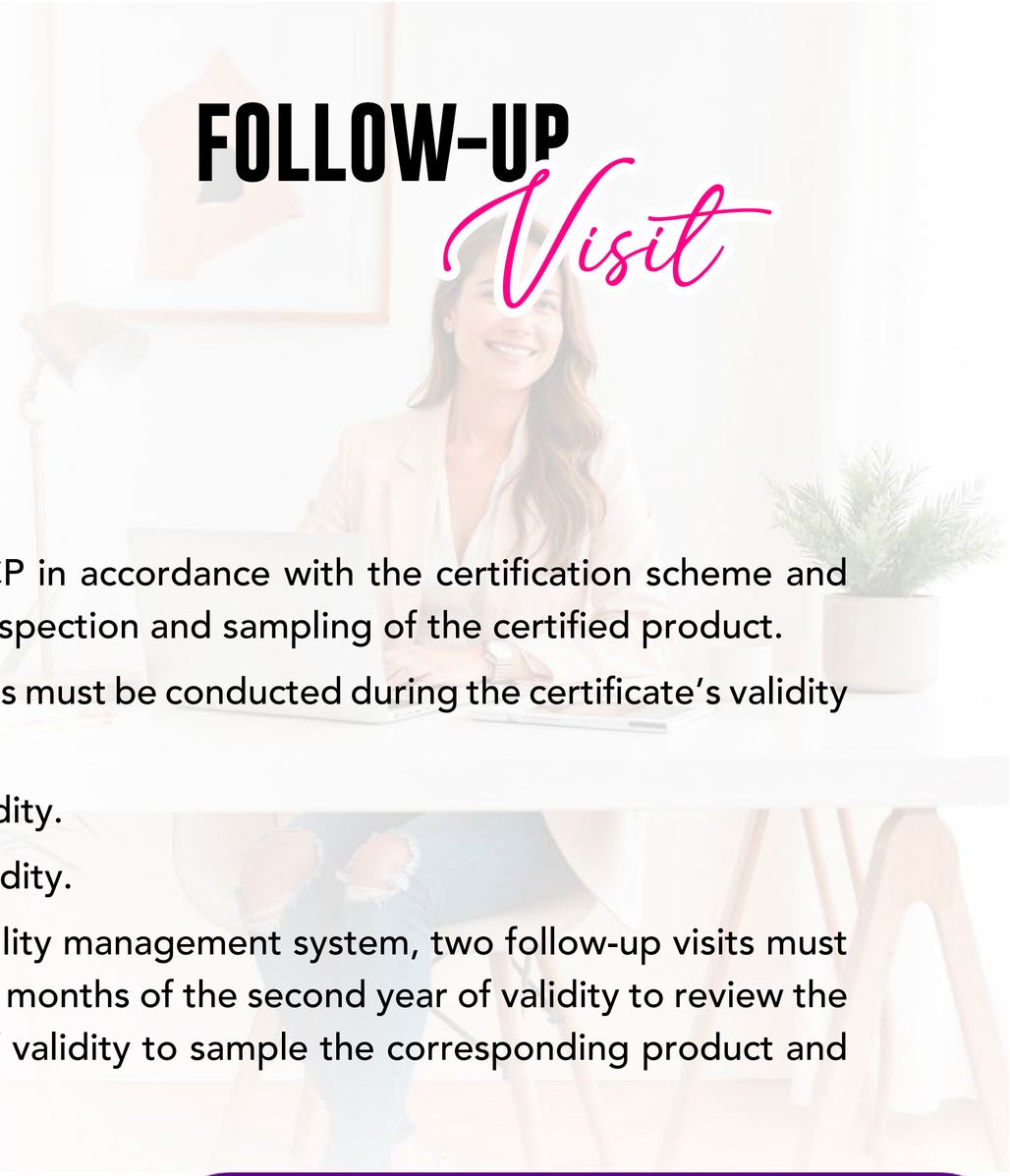
Hours: Monday to Friday from **9:00 AM to 6:00 PM**, Saturday from **9:00 AM to 01:00 PM.**

PROCEDURE



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FOLLOW-UP *Visit*



Who performs it?

The Certification Body.

Frequency

Product conformity certificates issued are subject to follow-up visits by the OCP in accordance with the certification scheme and within the certificate's validity period, involving both documentary review and inspection and sampling of the certified product.

For the certification scheme involving periodic product testing, two follow-up visits must be conducted during the certificate's validity period, as follows:

- First follow-up visit: during the first two months of the second year of validity.
- Second follow-up visit: during the first two months of the third year of validity.

For the certification type involving monitoring through the production line's quality management system, two follow-up visits must be conducted during the certificate's validity period; the first during the first two months of the second year of validity to review the production line, and the second during the first two months of the third year of validity to sample the corresponding product and conduct comprehensive testing.

FOLLOW-UP *Visit*

During the follow-up visit, samples must be collected in the required quantity, in accordance with the provisions of section 12.5.2.2 and Table 7. To carry out the sampling, a minimum number of models must be available to allow testing in accordance with Table 7, taking into account that models already tested must not be repeated; otherwise, the certification body must modify the scope of the certificate, removing from it the models not available at the time of sampling.

The certificate holder must ensure that the selected specimen is delivered to the testing laboratory without the identification seals, affixed by OCP technical staff, having been tampered with or removed; if this requirement is not met, the sample is invalidated. The certificate holder is responsible for submitting:

a. The samples to the laboratory within 30 days, counted from the day following the sampling, and for notifying the OCP of such submission no later than five business days thereafter.

b. The current test reports to the certification body no later than five business days after their issuance.

For each follow-up visit conducted by the OCP, a report or document must be issued for use by the Certification Body, regardless of the outcome; this report must be signed by the OCP representative and the certificate holder, if the latter participated. The certificate holder's failure to participate in the follow-up or refusal to sign the report does not affect its validity.

FOLLOW-UP *Visit*

Based on the results of the corresponding follow-up, the OCP must decide whether to suspend, cancel, or renew the product's final certificate of conformity.

Follow-up	Specimens to be evaluated	Second specimen
First	2[1]	0
Second	3[2]	1

Table 7 - Follow-up Sample

NOTE:
1) The first specimen is subjected to electrical and initial photometric tests (0 h), as well as thermal shock and switching resistance tests; the second specimen is subjected to the atmospheric discharge resistance test.
2) The first specimen undergoes electrical and photometric tests, as well as the total luminous flux maintained at 6000 hours; the second specimen undergoes thermal shock and switching resistance tests; and the third specimen undergoes the atmospheric discharge resistance test.

LOCATIONS

Contact: ***hola@boxlity.com***

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