



Street Lighting Maintenance Level of Service

1 PURPOSE

This document explains the level of service to be provided for maintaining street lighting luminaires and associated electrical devices.

2 SCOPE

This level of service standard applies to the functional maintenance of City owned street lighting assets.

3 DEFINITIONS

Street Lighting	City-owned and managed lighting infrastructure consisting of luminaires, arms, poles, electrical distribution, and power distribution equipment, designed, installed, and maintained for the function of lighting municipal roadways during night time hours.
Luminaire	A complete lighting unit consisting of light source and ballast or driver, together with the parts designed to distribute light, to position and protect the light sources, and to connect to the power supply.
Non-functioning Luminaire	A luminaire which is off and emitting no light, dim or exhibiting other deficient performance characteristics apart from regular operation.
Repair	Restoring a luminaire to normal working operation where it previously was identified as non-functioning
As soon as Practicable	As soon as possible and practical taking into account all of the facts, factors and circumstances in each individual repair scenario.
Night Patrol	Inspections conducted during night time hours to identify non-functioning luminaires.
Highway, Roadway, Road	Any City-owned segment of roadway located in the right of way.

Class 1 and 2 Roadways	Roadway (or Highway) classification defined in Ontario Regulation 239/02 – Minimum Maintenance Standards. Class 1-2 Roadways generally align with higher volume major arterial roadways.
Class 3-6 Roadways	Roadway (or Highway) classification defined in Ontario Regulation 239/02 – Minimum Maintenance Standards. Class 3-6 Roadways generally align with medium-lower volume, localized/urban neighbourhood roadways.

4 SERVICE LEVEL:

4.1 Non-functioning Luminaires: Public or Staff Identified

Repairs completed within seven (7) calendar days.

4.2 Patrol Frequency

Night patrol to identify non-functioning luminaires to be completed on a monthly basis, per Table 4.1, to the following frequency:

- I. Four (4) times per calendar year on all Class 1 and 2 roadways; and
- II. Two (2) times per calendar year on all Class 3 through 6 roadways.

Zone:	Inspection Month:
1: Class 1 & 2 Roadways	January, April, July, October
2A: Class 3-6 Roadways	February, August
2B: Class 3-6 Roadways	March, September
2C: Class 3-6 Roadways	May, November
2D: Class 3-6 Roadways	June, December

Table 4.1 – Monthly Night Patrol Cycle

4.3 Non-functioning Luminaires: Patrol Identified

Repairs completed within 14 calendar days of the completion of the monthly night patrol cycle, per Table 4.1.

4.4 Non-functioning Luminaires: Consecutive Outage

Where 3 or more luminaires in a row or 30% or more of luminaires on one-kilometre of roadway are identified as non-functioning, repairs completed:

- I. As soon as practicable, or to a maximum of 7 calendar days on all Class 1 and Class 2 roadways; or

- II. As soon as practicable, or to a maximum of 14 calendars days, on all Class 3 through 6 roadways.

4.5 Non-functioning Luminares: Lincoln M. Alexander parkway and Red Hill Valley Parkway

Where 50% or more lights are identified as non-functioning on one-kilometre of roadway on the Lincoln M. Alexander Parkway or the Red Hill Valley Parkway, complete repairs as soon as practicable.

5 ASSOCIATED DOCUMENTS

- Appendix A – Luminaire Patrol Zones
- Ontario Regulation 239/02, Minimum Maintenance Standards (MMS)






6 REVISION HISTORY

Rev. No	Rev. Date	Description of change(s)	Process Owner Name & Position	Process Owner Signature & Date
0	September 8, 2020		Mike Field Manager Transportation Operations	



Hamilton

Luminaire Patrol Zones

	Luminaire Count	Centreline km
 Zone 1	13,262	525.7
 Zone 2A	7,927	703.6
 Zone 2B	9,314	425.6
 Zone 2C	5,200	667.9
 Zone 2D	8,641	605.7

