

STREET AND SECURITY LIGHTING

RATE S-1

AVAILABILITY

Street and security lighting services are available under this rate to public authorities for street, highway, bridge, parkway and adjacent area lighting and flood lighting. Area lighting and flood lighting services are available for other outdoor lighting applications. Service under this rate is subject to both the Company's printed requirements and the Company's Terms and Conditions - Distribution Service, each as in effect from time to time.

Incandescent, mercury vapor, and metal halide luminaires will be no longer be installed. High pressure sodium luminaires are limited to replacements of existing installations based on availability.

RATE PER MONTH

The rate per month is the sum of the following: 1) Luminaire Charge, 2) Pole Charge, and 3) Other Charges. Included in these rates are unbundled charges per kilowatt-hour as described below. When there are multiple lamps on one pole, the monthly distribution charge and wattage will be multiplied by the number of installed lamps.

1. Luminaire Charge (\$/month):

Eastern MA and Western MA Territories

Luminaire Type	Nominal Wattage	Wattage Range	Monthly Charge
Light-Emitting Diode (LED) Horizontal Roadway	30	25 – 34	\$7.62
	40	35 – 44	\$7.81
	50	45 – 54	\$7.94
	90	85 – 94	\$9.03
	140	135 – 144	\$10.12
	220	215 – 224	\$13.08
Horizontal Roadway – Decorative	140	135 – 144	\$12.55
Flood Lights/Spot Lights	120	115 – 124	\$10.98
	200	195 – 204	\$13.52
	390	385 – 394	\$20.73

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Luminaire Type	Nominal Wattage	Wattage Range	Monthly Charge
Standard Decorative – Post Top			
Traditional	50	45 – 54	\$6.40
Contemporary	40	35 – 44	\$7.39
Contemporary	50	45 – 54	\$8.09
Premium Decorative – Standard	50	45 – 54	\$7.56
Premium Decorative – Deluxe	50	45 – 54	\$13.39

Given the continued change in the efficiency in LED lightings, a wattage range has been established to accommodate the efficiency changes. The Company may install LED street and security lighting that have wattage ratings within the ranges listed above. The Distribution charge for such installations shall be based on the approved charges above, and the nominal wattage shall be the billable wattage.

Eastern MA Territory

Luminaire Type	Lumens	Lamp & Ballast Wattage	Street Lights	Area / Flood / Spot Lights
Incandescent	1,000	87	\$9.51	----
	2,500	176	\$11.92	----
	4,000	274	\$13.41	----
	6,000	376	\$14.95	----
	10,000	577	\$17.78	----
	15,000	855	\$21.75	----
Mercury Vapor	3,500	131	\$11.42	----
	4,200	131	\$10.10	----
	7,000	213	\$12.62	----
	8,600	216	\$11.42	----
	11,000	296	\$13.94	----
	12,100	301	\$12.32	----
	20,000	460	\$16.66	\$17.20
	22,500	474	\$13.68	----
	22,500	467	----	\$25.20
	35,000	780	\$23.45	----
	60,000	1,114	----	\$20.12
	63,000	1,114	----	\$26.22
	63,000	1,135	\$20.73	----

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Luminaire Type	Lumens	Lamp & Ballast Wattage	Street Lights	Area / Flood / Spot Lights
High Pressure Sodium	2,150	41	\$9.89	----
	4,000	58	\$10.06	----
	5,800	86	\$10.93	----
	9,500	117	\$10.75	----
	16,000	175	\$11.54	----
	16,000	189	----	\$12.54
	25,000	295	\$13.39	\$13.87
	27,500	305	\$13.52	----
	27,500	309	----	\$13.94
	45,000	470	\$15.58	\$16.02
	50,000	464	----	\$16.17
	50,000	485	\$15.74	----
Metal Halide	19,700	320	----	\$14.67
	36,000	453	----	\$16.30
	45,000	400	----	\$15.67

Western MA Territory

Luminaire Type	Lumens	Lamp & Ballast Wattage	Street Lights	Area / Flood / Spot Lights
Incandescent	1,000	104	\$6.86	----
	2,500	203	\$5.07	----
Mercury Vapor	4,000	118	\$6.57	----
	8,000	206	\$8.85	----
	12,500	287	\$8.95	----
	22,500	455	\$9.11	\$12.28
	60,000	1,103	\$7.15	\$10.33
High Pressure Sodium	4,000	59	\$7.96	----
	6,300	84	\$8.37	----
	9,500	118	\$8.76	----
	16,000	172	\$9.58	----
	27,500	311	\$11.56	\$14.74
	50,000	472	\$13.87	\$17.06
	140,000	1,103	\$25.64	\$28.81

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Luminaire Type	Lumens	Lamp & Ballast Wattage	Street Lights	Area / Flood / Spot Lights
Metal Halide	5,200	89	\$9.14	----
	8,500	119	\$9.44	----
	14,400	207	\$9.96	----
	22,000	289	\$11.77	\$14.96
	36,000	451	\$14.58	\$17.81
	110,000	1,080	\$26.28	\$29.45

2. Pole Charge (\$/month)

These charges are applied to new installations or replacements on or after January 1, 2023.

Eastern MA and Western MA Territories

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| a. Standard Wood Pole | \$9.85 |
| b. Standard Aluminum Pole | \$28.57 |
| c. Standard Decorative Fiberglass Pole | \$12.50 |
| d. Premium Decorative Aluminum Pole | \$26.16 |

These charges are applied to installations and replacements prior to January 1, 2023 or otherwise noted:

Eastern MA Territory

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|---|---------|
| a. Wood pole and a section of secondary wire not to exceed 150 feet | \$8.47 |
| b. Wood pole installed prior to January 1, 1996 (in the South Shore, Cape Cod, and Martha's Vineyard service area only) | \$4.96 |
| c. Concrete pole and a section of secondary wire not to exceed 150 feet | \$16.29 |
| d. Aluminum or other metal pole | \$21.91 |
| e. Concrete pole connected with underground service prior to February 1, 2018 (in the Greater Boston service area only) | \$21.77 |

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Western MA Territory

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| a. Wood pole or pipe support, used exclusively for lighting purposes or high mounting ornamental pole installed initially to support an incandescent luminaire | \$5.84 |
| b. Low mounting ornamental pole or distribution pole preserved using a volatile solvent process, used exclusively for lighting purposes | \$5.27 |
| c. Center bored wood pole used exclusively for lighting purposes installed at the request of the customer | \$6.87 |
| d. 25-32 foot ornamental pole | \$25.32 |
| e. Pole furnished, installed, and maintained by and at the expense of the customer or any other pole not included in one of the foregoing categories | No additional charge |
| f. Premium Decorative Poles served underground on an anchor base or similar cost installation | |
| Extruded Aluminum | \$23.96 |
| Fiberglass | \$20.48 |
| Cast Aluminum | \$28.34 |
| Cast Iron | \$42.32 |
3. Other Charges (\$/month):

Western MA Territory

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| a. Decorative Luminaire | |
| 4,000, 6,300, 8,000, 9,500, and 16,000 lumen sizes | \$3.72 |
| 27,500 and 50,000 lumen sizes | \$5.81 |
| b. Premium Decorative Luminaire | |
| Standard | \$9.72 |
| Deluxe | \$13.88 |
| c. Spot Light Glare Shield | \$3.21 |

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d. Cobra Head Vandal Shield	
Up to 250 Watt	\$3.55
400 Watt	\$7.10
e. Twin Brackets for Premium Decorative Luminaires	
Standard	\$5.34
Deluxe	\$10.10

OTHER DELIVERY AND SUPPLY RATES

Delivery Services:

Distribution	As per M.D.P.U. No. 1 as in effect from time to time
Transition:	As per M.D.P.U. No. 1 as in effect from time to time
Transmission:	As per M.D.P.U. No. 1 as in effect from time to time

Supplier Services: (Optional)

Basic Service:	As in effect per Tariff
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RATE ADJUSTMENTS

The charges for delivery service shall be subject to the following provisions:

Revenue Decoupling Adjustment Mechanism	Pension Adjustment Mechanism
Residential Assistance Adjustment Clause	Net Metering Recovery Surcharge
Attorney General Consultant Expense	Long Term Renewable Contract Adjustment
Storm Reserve Adjustment Mechanism	Storm Cost Recovery Adjustment
Basic Service Cost Adjustment	Solar Program Cost Adjustment
Transmission Service Cost Adjustment	Transition Cost Adjustment
Renewable Energy Charge	Energy Efficiency Charge
Performance Based Revenue Adjustment	Solar Expansion Cost Recovery Mechanism
Vegetation Management	Miscellaneous Charges
Solar Massachusetts Renewable Target	2017 Tax Act Credit
Grid Modernization Factor	Advanced Metering Infrastructure
Provisional System Planning Factor	Electric Vehicle Program Factor

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President

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DETERMINATION OF MONTHLY KWH

The lights for customers under this service will turn on between dusk and dawn, based on the annual hours listed below:

<u>Service Area</u>	<u>Annual Hours</u>
Greater Boston	4,200
Cambridge and South Shore, Cape Cod, and Martha's Vineyard	4,000
Western Massachusetts	4,150

Optional Midnight Service:

The lights for customers selecting this option will turn off at midnight, and the kWh-based charges for street and security lighting service will be reduced accordingly. Customers shall pay an upfront charge for the incremental cost of controls required to be installed by the Company to provide this service. Such control equipment shall normally be installed during group re-lamping. When such installation is not performed during group re-lamping, the upfront charge shall also include the additional cost of labor associated with the installation. Other costs, such as traffic control, are not included in these charges, and will be charged to the customer as per standard Company practice.

This option is available to customers who elected this service prior to February 1, 2018.

The Company reserves the right of final determination of wattage and operating period for unmetered loads.

SPECIAL PROVISIONS

1. For existing locations with colonial style mercury vapor post-top lighting service at 4,200 lumens and 121 watts served as of August 1, 1979 in qualifying underground residential developments in the South Shore, Cape Cod, and Martha's Vineyard service area, the following charges shall apply:
 - a. A charge of \$22.15 per month shall apply where the Company furnished and installed and owns and maintains the post-top lighting fixtures, poles, and associated equipment and the distance from the power source is 5 feet or less.
 - b. A charge of \$22.92 per month shall apply where the Company furnished and installed and owns and maintains the post-top lighting fixtures, poles, and associated equipment and the distance from the power source is 5 to 100 feet.

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- c. A charge of \$9.12 per month applies where the Customer furnished and installed at his own expense the post-top fixtures, poles, and associated equipment, and the Company owns and maintains said facilities and the distance from the power source is 5 feet or less.
 - d. A charge of \$9.64 per month applies where the Customer furnished and installed at his own expense the post-top fixtures, poles, and associated equipment, and the Company owns and maintains said facilities and the distance from the power source is 5 to 100 feet.
- 2. For lighting units in the Cambridge service area that were installed prior to December 1, 1985 on a standard pole with an underground service connection, and the Company installed and owns and maintains the standard pole, underground cable, conduit, manholes and sub-base, a charge of \$21.26 per month shall be added to the luminaire charge under this rate schedule.
- 3. For street lighting units in the Cambridge service area that were installed prior to December 1, 1985 on a standard pole where the Customer furnished and installed and owns and maintains the conduit, manholes, and sub-base, a charge of \$5.68 per month shall be added to the luminaire charge under this rate schedule.
- 4. For lighting units in the South Shore, Cape Cod, and Martha's Vineyard service area that were installed prior to January 31, 1989 on a metal pole with an underground service connection and the Company installed and owns and maintains the metal pole assembly, underground cable, conduit, manholes, and sub-base, a charge of \$7.48 per month shall be added to the luminaire charge under this rate schedule.
- 5. In the City of Springfield, a charge of \$50.46 per month shall apply where the Company furnished and installed and owns and maintains the premium decorative 140-watt LED teardrop-style lighting fixtures. An additional charge of \$29.09 shall apply where the Company furnished and installed a premium decorative metal pole to support the lighting fixture.

SERVICE AND SUPPLY OF FACILITIES

- 1. For overhead-connected services, the Company will provide a standard lighting unit and a single span of overhead secondary wire if such span is necessary. All other construction costs will be at the expense of the Customer.
- 2. For underground-connected services, the Company will provide a standard lighting unit. All underground distribution facilities required to supply street and security lighting service will be at the expense of the Customer.

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GENERAL CONDITIONS

1. Service under this rate is contingent upon Company ownership and maintenance of street and security lighting facilities. The Company shall specify standard street and security lighting equipment to be utilized for providing service hereunder. All poles, lamps, brackets, luminaries and related equipment shall be furnished and maintained by the Company, except in the instance of poles or luminaries furnished, installed and maintained by and at the expense of the Customer. All energy and normal renewal of lamps shall be furnished and controlled by the Company at its expense. Broken, cracked, and damaged lamps and other equipment shall be replaced by the Company at the customer's expense.
2. All street and security lighting installations under this rate shall be subject to the Company's approval in all respects, including the size, location, spacing, and type of luminaire to be provided. The Company may refuse service hereunder for any installation which does not conform to good lighting practices in the sole opinion of the Company. By its approval or acceptance of any street and security lighting installation, the Company does not give any warranty, expressed or implied, as to the adequacy, safety or other characteristics of said installation.
3. The Company will require that Customers who terminate service or request temporary service, or the removal of street and security lighting units without replacement or changes in the sizes, types or locations of street and security lighting units pay to the Company the undepreciated costs less salvage value, if any, of the equipment which is taken out of service, removed without replacement, relocated or substantially altered by the Company. The undepreciated costs shall be determined based upon the actual age of such equipment as determined by the Company. However, all incandescent lighting units shall be exempt from this provision.
4. The Company shall use its best efforts to replace existing lights with LED within a reasonable length of time after receipt of the written notice requesting such replacement. The Company reserves the right to be flexible in responding to the Customer's request. However, the Company shall complete all requests according to a mutually accepted schedule between the Customer and the Company upon receipt of written notice.
5. The Company will maintain all wires, lamps and other equipment owned by it. The Customer will notify the Company of any failure of lights to operate properly and the Company will complete the necessary repair or replacement within three (3) regular working days, with no reduction in charges for such inoperative periods. Lamp replacement and maintenance shall be performed by the Company during normal working hours.
6. Street and security lighting units furnished under this rate schedule shall be subject to all applicable charges hereunder, except that, in the event any lighting unit is not lighted for a period exceeding three (3) nights duration for any reason whatsoever, such unit shall not be subject to the rates herein for the period during which it is unlighted, as determined by the Company.

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7. Poles shall be accessible to trucks and other equipment of the company at all times. Service may be furnished at other locations subject to appropriate charges, at the option of the Company.
8. Where temporary service is desired, the Customer shall reimburse the Company for its costs of installing and removing street and security lighting facilities.
9. The Customer grants the Company the right to enter and use the Customer's premises at all reasonable times for the installation, maintenance and removal of its facilities, including the right to cut and trim the trees and bushes wherever necessary. The Company shall not be required to move its facilities to another location on the Customer's premises except at the Customer's expense.
10. Customer requests to relocate lighting units, regardless of age, will be provided solely at Customer expense. Alternatively, the Customer may also terminate service at the old location and apply for new service. The Customer will also pay the cost of removal of such installation. If temporary service is desired, the Customer will be required to pay the cost of installation and removal and in such case the Customer may terminate service by giving ten (10) days' notice in writing.

FARM DISCOUNT RIDER

A Customer taking service under this rate may be eligible for the Company's Farm Discount Rider, as in effect from time to time.

TERMS OF PAYMENT

Charges are payable upon presentation of the Company's bill.

TERM

Lighting units are installed by the Company for use at this rate on the basis of permanent service. The Company or the Customer may terminate permanent delivery service by giving at least ninety (90) days notice in writing.