



**RATE SCHEDULE E-47  
CLASSIFIED SERVICE  
DUSK TO DAWN LIGHTING SERVICE**

AVAILABILITY

This rate schedule is available in all territory served by the Company at all points where facilities of adequate capacity and the required phase and suitable voltage are adjacent to the sites served.

APPLICATION

This rate schedule is applicable to outdoor lighting which operates only from dusk to dawn and where service can be supplied from the existing secondary facilities of the Company. Dusk is defined as the time between sunset and full night when a photocontrol senses the lack of sufficient sunlight and turns on the lights. Dawn is defined as the time between full night and sunrise when a photocontrol senses sufficient sunlight to turn off lights.

RATES

The customer's bill shall be computed at the following rates for each type of standard facility and/or service utilized to provide outdoor lighting, plus any adjustments incorporated in this schedule:

I. FIXTURES (Includes Mounting Arm, if Applicable)

	Lumen	Watts	kWh	RATES	
				Company Owned	Customer Owned
A. Acorn	9,500 HPS	100	41	\$27.06	\$9.22
	16,000 HPS	150	69	30.04	11.65
	6,000 IND	85	29	17.87	2.77
B. Architectural	9,500 HPS	100	41	15.38	7.34
	16,000 HPS	150	69	17.96	9.82
	30,000 HPS	250	99	21.31	12.60
	50,000 HPS	400	153	26.29	18.13
	14,000 MH	175	72	21.51	11.79
	21,000 MH	250	101	24.42	14.54
	36,000 MH	400	159	30.54	20.00
	8,000 LPS	55	30	22.35	9.82
	13,500 LPS	90	50	26.36	11.84
	22,500 LPS	135	72	30.11	14.45
	33,000 LPS	180	90	36.22	17.02
	6,200 IND	85	29	9.40	2.77
	8,400 IND	100	34	9.93	3.15
	10,200 IND	120	41	10.91	3.67
	13,000 IND	150	52	12.05	4.50
	20,500 IND	200	69	13.72	5.79
	22,500 IND	265	91	16.37	7.44
5,800 LED	94	32	16.53	3.00	
7,400 LED	127	44	18.96	3.90	
12,300 LED	203	70	23.66	5.86	



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RATES (cont)

I. FIXTURES (Includes Mounting Arm, if Applicable) (cont)

			RATES				
			Lumen	Watts	kWh	Company Owned	Customer Owned
C. Cobra/Roadway	5,800 HPS		70	29	\$8.73	\$5.16	
	9,500 HPS		100	41	10.28	6.32	
	16,000 HPS		150	69	12.87	8.82	
	30,000 HPS		250	99	15.52	11.46	
	50,000 HPS		400	153	21.06	16.37	
	14,000 MH		175	72	14.97	10.20	
	21,000 MH		250	101	17.49	12.69	
	36,000 MH		400	159	23.03	17.63	
	8,000 FL		100	38	17.20	5.04	
	6,200 IND		75	26	9.78	2.54	
	6,400 IND		85	29	8.33	2.77	
	8,000 IND		88	30	9.72	2.84	
	8,400 IND		100	34	9.01	3.15	
	10,200 IND		120	41	9.69	3.67	
	13,000 IND		150	52	10.67	4.50	
	15,250 IND		200	69	12.87	5.79	
	22,500 IND		250	86	17.22	7.06	
	6,000 LED		95	33	15.83	3.07	
	8,700 LED		142	49	17.80	4.27	
	9,600 LED		157	54	18.94	4.65	
11,600 B-LED		181	62	17.67	5.25		
D. Decorative Transit	9,500 HPS		100	41	37.09	11.11	
	16,000 HPS		150	69	36.88	6.31	
	30,000 HPS		250	99	42.46	16.02	
E. Flood	30,000 HPS		250	99	20.61	12.81	
	50,000 HPS		400	153	25.56	17.77	
	21,000 MH		250	101	22.00	13.53	
	36,000 MH		400	159	26.82	18.35	
F. Post Top	Colonial Gray	8,000 FL	100	38	18.54	5.23	
		9,500 HPS	100	41	10.60	6.65	
	Colonial Black	9,500 HPS	100	41	12.21	6.88	
	Decorative	9,500 HPS	100	41	32.47	10.24	
	Copper Square	6,000 IND	85	29	17.52	2.77	
G. FROZEN	4,000 INC		295	103	\$9.78	\$5.47	
	7,000 MV		175	73	12.67	7.27	
	20,000 MV		400	150	24.92	14.12	
	Brackets over 8 ft. and up to 16 ft. in length					1.72	--



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- NOTES:
1. Company Owned fixtures are those fixtures that the Company installs, owns, operates, and maintains.
  2. Customer Owned fixtures are those fixtures where the customer installs and maintains the lighting fixtures, and the Company approves the installation, operates the fixtures, and replaces Company standard lamps only.
  3. Listed kWhs reflect the assigned monthly energy usage for each type of fixture and are used to determine any applicable transmission, system benefit, distribution, energy, and adjustment charges.
  4. HPS = High Pressure Sodium
  5. MH = Metal Halide
  6. LPS = Low Pressure Sodium
  7. FL = Fluorescent
  8. INC = Incandescent. Incandescent lighting charges are applicable and available only to those customers being served and those installations in service on April 21, 1983.
  9. MV = Mercury Vapor. Mercury Vapor lighting charges are applicable and available only to those customers being served and those installation in service on June 1, 1987 in accordance with A.R.S. §49-1104(A).
  10. LED = Light Emitting Diode
  11. IND = Induction



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RATES (cont)

II. POLES

			RATES	
			Height	Company Owned
A. Anchor Base Mounted (Flush)	Round Steel	1 Simplex Adapter	12 ft.	\$12.17
			22 ft.	13.70
			25 ft.	14.82
			30 ft.	17.03
			32 ft.	17.89
	Round Steel	2 Simplex Adapters	12 ft.	12.98
			22 ft.	14.91
			25 ft.	15.55
			30 ft.	18.07
			32 ft.	19.28
	Square Steel	5"	13 ft.	13.95
			15 ft.	12.47
			23 ft.	14.79
			25 ft.	16.26
			28 ft.	18.05
			32 ft.	17.95
	Concrete		12 ft.	41.58
	Fiberglass		12 ft.	35.21
	Decorative Transit	4"	16 ft.	34.33
Decorative Transit	6"	30 ft.	66.28	
Hinged	Square	15 ft.	13.20	
	Round	19 ft.	11.93	
B. Anchor Base Mounted (Pedestal)	Round Steel	1 Simplex Adapter	12 ft.	11.71
			22 ft.	13.24
			25 ft.	14.35
			30 ft.	16.58
			32 ft.	17.41
	Round Steel	2 Simplex Adapters	12 ft.	12.51
			22 ft.	13.97
			25 ft.	15.08
			30 ft.	17.61
			32 ft.	18.81
			3 Bolt Arm	32 ft.
	Square Steel	5"	13 ft.	13.50
			15 ft.	13.80
			23 ft.	14.32
			25 ft.	15.80
			28 ft.	17.56
			32 ft.	18.23



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RATES (cont)

II. POLES (cont)

		Height	RATES Company Owned	
C. Direct Bury	Round Steel	19 ft.	\$18.42	
		30 ft.	14.38	
		38 ft.	17.55	
		Self Support	40 ft.	21.62
		Stepped	25 ft.	49.72
			32 ft.	52.36
	Square Steel	4"	49 ft.	64.99
			34 ft.	15.87
		5"	20 ft.	15.07
			30 ft.	15.71
		8"	38 ft.	17.05
			28 ft.	28.45
			32 ft.	29.74
	Decorative Transit	41 ft. 6 in.	20.47	
	Decorative Transit	47 ft.	25.50	
	Steel Distribution Pole (for lighting only)	35 ft.	23.54	
D. Post Top	Decorative Transit Anchor Base	16 ft.	35.07	
	Gray Steel/Fiberglass	23 ft.	12.16	
	Black Steel	23 ft.	13.41	
E. FROZEN	Wood Poles	30 ft.	\$8.95	
		35 ft.	8.95	
		40 ft.	12.73	

- NOTES:
1. All distribution lines required to serve dusk to dawn facilities are owned by the Company.
  2. Monthly rates for all new Company owned poles include up to 100 feet of overhead secondary wire, or up to 100 feet of underground secondary line if customer provides earthwork and conduit (excluding the overhead to underground transition). Any additional wire required (over and above the first 100 feet provided) to install fixtures is subject to the additional monthly wire charges specified in Section IV.1 below.
  3. When adding lighting fixtures to an existing Company owned pole, any and all additional distribution wire required is subject to the additional monthly wire charges specified in Section IV.1 below.
  4. Any and all distribution wire required to serve lighting facilities placed on a customer owned pole, whether new or existing, is subject to the additional monthly wire charges specified in Section IV.1 below.



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III. ANCHOR BASE

		RATES	
		Height	Company Owned
A. Flush		4 ft.	\$9.91
		6 ft.	11.82
B. Pedestal		8 ft.	13.54
	For 32' Round Steel Pole only	4 ft. 6"	9.39

IV. RATES FOR OPTIONAL OR ADDITIONAL EQUIPMENT

		RATES
		Company Owned
1.	Each 100 feet of overhead secondary wire, or each 100 feet of underground secondary wire if customer provides earthwork and conduit.	\$3.50
2.	Additional maintenance charge for HPS lamp and luminaire that is not accessible by bucket truck.	2.80
3.	Additional maintenance charge for MH lamp and luminaire that is not accessible by bucket truck.	6.04

V. DETERMINATION OF RATES FOR NEW EQUIPMENT

Monthly rates for new lighting fixtures, poles and other equipment not included in Sections I, II, or III above shall be determined by the Company using the following method:

Step 1				Determination of monthly charges for each charge type			Monthly Fixed Charge Rate
Charge Type	Monthly Charge	=	Cost Inputs	x	PV Factor	x	Rate
1	Carrying cost (fixtures)	=	Equipment cost (installed)	x	NA	x	1.533%
2	Lighting O&M	=	O&M cost ( lifecycle)	x	0.381	x	1.533%
3	Carrying cost (poles)	=	Equipment cost (installed)	x	NA	x	1.449%
Charge Type	Monthly Charge	=	kWh Input	x	\$/kWh	x	Rate
4	Generation	=	kWh per month	x	0.04023	x	
5	T&D, RCS, system benefits	=	kWh per month	x	0.03516	x	

Step 2		Determination of Total Monthly Charge	
The total monthly charge shall be the summation of the charges for each applicable charge type.			
Equipment	Charge Type	=	Rate
Fixtures - company owned	1,2,4,5	=	
Fixtures - customer owned	2,4,5	=	
Poles - company owned	3	=	



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ADJUSTMENTS

1. The bill is subject to the Renewable Energy Standard as set forth in the Company's Adjustment Schedule RES pursuant to Arizona Corporation Commission Decision No. 70313.
2. The bill is subject to the Power Supply Adjustment factor as set forth in the Company's Adjustment Schedule PSA-1 pursuant to Arizona Corporation Commission Decision No. 67744, Arizona Corporation Commission Decision No. 69663, and Arizona Corporation Commission No. 71448.
3. The bill is subject to the Transmission Cost Adjustment factor as set forth in the Company's Adjustment Schedule TCA-1 pursuant to Arizona Corporation Commission Decision No. 67744.
4. The bill is subject to the Environmental Improvement Surcharge as set forth in the Company's Adjustment Schedule EIS pursuant to Arizona Corporation Commission Decision No. 69663.
5. Direct Access customers returning to Standard Offer service may be subject to a Returning Customer Direct Access Charge as set forth in the Company's Adjustment Schedule RCDAC-1 pursuant to Arizona Corporation Commission Decision No. 67744.
6. The bill is subject to the Demand Side Management Adjustment charge as set forth in the Company's Adjustment Schedule DSMAC-1 pursuant to Arizona Corporation Commission Decision No. 71448.
7. The bill is subject to the applicable proportionate part of any taxes or governmental impositions which are or may in the future be assessed on the basis of gross revenues of APS and/or the price or revenue from the electric energy or service sold and/or the volume of energy generated or purchased for sale and/or sold hereunder.

SPECIAL PROVISIONS

1. The 4,000 and 7,000 lumen lamps use an open glass diffuser. All units are controlled by a photoelectric switch.
2. The customer is not authorized to make connections to the lighting circuits or to make attachments.
3. Should a customer request relocation of a dusk-to-dawn lighting installation, the costs of such relocation shall be paid by the customer.
4. The Company cannot guarantee that all dusk to dawn facilities will always operate as intended. Therefore, the customer will be responsible for notifying the Company when the dusk to dawn facilities are not operating as intended. The Company will use reasonable efforts to complete normal maintenance (replacement of lamps, photocontrols or fixtures) within ten (10) working days from notification by customer; however, if the maintenance requires cable replacement or repairs, the Company shall use reasonable efforts to complete said repairs within twenty (20) working days.
5. The customer's bill will not be reduced due to lamp, photocontrol or cable repair or replacement outages.
6. The customer may cancel a lighting service agreement by payment of the bill including the applicable tax adjustment, multiplied by the number of remaining months of the initial agreement, or the calculated installation and removal costs for the extension, whichever is lower.
7. Lighting equipment which is not specified in this rate schedule will be billed at the rates corresponding to the most similar equipment, as determined by the Company.



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NON-STANDARD FACILITIES – CUSTOMER OWNED

When the customer requests any non-standard dusk-to-dawn lighting facilities (non-standard being defined as any equipment not listed in the Company's Transmission and Distribution Construction Standards book), the customer will own, operate and maintain all components to the system excluding the distribution facilities installed by the Company to serve the lighting system. Monthly bills rendered for non-standard facilities will be computed at the following rates, plus any adjustments incorporated in this schedule. KWh will be determined by the Company, based on the rated wattage of the lighting equipment and an estimated average hourly usage per month.

A.	Service Charge	\$3.35	per installed lamp per month
B.	Energy Charge	\$0.06345	per kWh per month

If, at the Company's discretion, the customer chooses to have the Company maintain the entire non-standard facility, the Company may require the customer to enter into a separate maintenance agreement which may be subject to additional charges mutually agreed upon by the Company and the customer.

CONTRACT PERIOD

All Dusk-to-Dawn lighting installations will require a written agreement for service for a minimum of three (3) years, or longer at Company's option.

TERMS AND CONDITIONS

Service under this rate schedule is subject to the Company's Schedule 1, Terms and Conditions for Standard Offer and Direct Access Services and the Company's Schedule 10, Terms and Conditions for Direct Access. These schedules have provisions that may affect the customer's bill. In addition, service may be subject to special terms and conditions as provided for in a customer contract or service agreement.