

**ORIGINAL**

**NEW APPLICATION**



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RECEIVED  
 AZ CORP COMMISSION  
 DOCKET CONTROL  
 2013 JUN 14 PM 3 55

**BEFORE THE ARIZONA CORPORATION COMMISSION**

**COMMISSIONERS**

9 BOB STUMP, Chairman  
 10 GARY PIERCE  
 11 BRENDA BURNS  
 12 ROBERT L. BURNS  
 13 SUSAN BITTER SMITH

Arizona Corporation Commission  
**DOCKETED**  
 JUN 14 2013  
 DOCKETED BY [Signature]

12 IN THE MATTER OF THE NOTICE BY  
 13 ARIZONA PUBLIC SERVICE COMPANY  
 14 AN OFFEERING OF NEW LIGHTING  
 15 EQUIPMENT.

DOCKET NO. E-01345A-13-0198  
**NOTICE**

16 In Decision No. 72433 (June 27, 2011); Docket E-01345A-10-0133, the Arizona  
 17 Corporation Commission ("Commission") approved a formula for calculating charges  
 18 associated with future dusk-to-dawn and street lighting equipment service offerings by  
 19 Arizona Public Service Company ("APS" or "Company"). This approval stipulated that  
 20 APS shall docket a notice of its intention to add new lighting equipment to either or both  
 21 Rate Schedules E-47 (Dusk-to-Dawn) or E-58 (Street Lighting) and that Staff shall have  
 22 90 days from the date the notice is filed with Docket Control to review the notice for  
 23 compliance with the Decision.

24 The Order further stated that if Staff and/or the Commission take no action on the  
 25 notice within the 90-day period, the rates for the new equipment offerings would be  
 26 deemed approved. Pursuant to that Decision, APS requests that the attached new lighting  
 27 equipment offerings be allowed customers under the E-47 and E-58 rate schedules.  
 28



**REDLINE**



**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	



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

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	
	Gray/Bronze	3,500 IND	55	19	9.75	2.01
		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	
	Gray/Bronze	3,300 LED	43	8.36	1.71	
	Gray/Bronze	5,300 LED	67	9.70	2.32	
	Gray/Bronze	8,300 LED	106	12.58	3.37	
	Gray/Bronze	10,500 LED	130	14.00	3.97	
	Gray/Bronze	20,000 LED	258	24.33	7.29	
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	



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

RATES (cont)

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

		Lumens	Watts	kWh	RATES	
					Company Owned	Customer Owned
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 Transit	9,500 HPS	100	41	32.47	10.24
	Copper Square	6,000 IND	85	29	17.52	2.77
	Gray/Black	8,000 IND	88	30	13.80	2.84
	Gray/Black	4350 LED	86	30	12.52	2.84
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	--

- 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



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

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.	21.62
	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



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

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	
	<b>FROZEN</b>	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.



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

**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
Charge Type	Monthly Charge	=	Cost Inputs	x	PV Factor	x	Fixed Charge 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		
4	Generation	=	kWh per month	x	0.04023		
5	T&D, RCS, system benefits	=	kWh per month	x	0.03516		

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

ARIZONA PUBLIC SERVICE COMPANY  
Phoenix, Arizona  
Filed by: David J. Rumolo Charles Miessner  
Title: Pricing Manager, Regulation and Pricing  
Original Effective Date: November 5, 1962

A.C.C. No. 5876XXXX  
Canceling A.C.C. No. 57885876  
Rate Schedule E-47  
Revision No. 5253  
Effective: July 1, 2012XXXX



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

TRIP CHARGE

When Company is not the responsible party contracted for the regular maintenance of a dusk to dawn lighting system owned by a city, town or other governmental entity, a \$100.00 trip charge per light will be charged when customer requests a disconnect and/or reconnect of service in order to accommodate the maintenance activities of the customer or its designee(s) on their dusk to dawn equipment. The trip charge will also apply when customer request disconnect or reconnect for non-maintenance purposes.

ADJUSTMENTS

1. The bill is subject to the Renewable Energy Standard as set forth in the Company's Adjustment Schedule REAC-1 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, and 73183.
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, and Arizona Corporation Commission Decision No. 73183.
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



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

SPECIAL PROVISIONS (cont')

- 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.
- 8. Lighting Equipment and services with an initial Company cost exceeding \$25,000 shall require a financial liability agreement between the Company and the customer.

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.



**RATE SCHEDULE E-58  
CLASSIFIED SERVICE  
STREET LIGHTING SERVICE**

**AVAILABILITY**

This rate schedule is available in those portions of cities, towns and unincorporated communities in which Company does a general retail electric business and where Company has installed a multiple or series street lighting system of adequate capacity for the service to be rendered.

**APPLICATION**

This rate schedule is applicable to service for lighting public streets, alleys, thoroughfares, public parks and playgrounds from dusk to dawn by use of Company's facilities where such service for the entire area is contracted for from the Company by the city, town, other governmental agencies, or a responsible individual for unincorporated communities. 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 bill shall be computed at the following rates for each type of standard facility and/or service utilized to provide street lighting, plus any adjustments incorporated in this schedule:

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

	Lumen	Watts	kWh	RATES	
				Investment by Company	Investment by Others
A. Acorn	9,500 HPS	100	41	\$ 27.06	\$9.22
	16,000 HPS	150	69	30.04	11.65
	6000 IND	85	29	17.87	4.77
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	3.65
	8,400 IND	100	34	9.93	4.05
	10,200 IND	120	41	10.91	4.63
	13,000 IND	150	52	12.05	5.50
	20,500 IND	200	69	13.72	6.84
22,500 IND	265	91	16.37	8.62	
5,800 LED	94	32	16.53	4.79	
7,400 LED	127	44	18.96	5.89	
12,300 LED	203	70	23.66	8.22	



**RATE SCHEDULE E-58  
CLASSIFIED SERVICE  
STREET LIGHTING SERVICE**

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

	Lumen	Watts	kWh	RATES		
				Investment by Company	Investment by Others	
B. Architectural	9,200 LED	139	48	\$23.77	\$6.78	
	13,620 LED	202	70	26.45	8.58	
	6,400 LED	89	31	16.61	4.73	
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	3.50	
	6,400 IND	85	29	8.33	3.51	
	8,000 IND	88	30	9.72	3.75	
	8,400 IND	100	34	9.01	3.93	
	10,200 IND	120	41	9.69	4.47	
	13,000 IND	150	52	10.67	5.32	
	15,250 IND	200	69	12.87	6.73	
	22,500 IND	250	86	17.22	8.41	
	Gray/Bronze	3,500 IND	55	19	9.75	3.03
		6,000 LED	95	33	15.83	4.76
		8,700 LED	142	49	17.80	6.06
		9,600 LED	157	54	18.94	6.54
		11,600 B-LED	181	62	17.67	6.90
Gray/Bronze	3,300 LED	43	15	8.36	2.59	
Gray/Bronze	5,300 LED	67	23	9.70	3.29	
Gray/Bronze	8,300 LED	106	37	12.58	4.59	
Gray/Bronze	10,500 LED	130	45	14.00	5.29	
Gray/Bronze	20,000 LED	258	89	24.33	9.54	
D. Decorative	9,500 HPS	100	41	37.09	11.11	
	16,000 HPS	150	69	36.88	12.41	
	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	



**RATE SCHEDULE E-58  
CLASSIFIED SERVICE  
STREET LIGHTING SERVICE**

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

					<u>Rates</u>	
					<u>Investment By Company</u>	<u>Investment By Others</u>
		<u>Lumens</u>	<u>Watts</u>	<u>kWh</u>		
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 Transit	9,500 HPS	100	41	32.47	10.24
	Copper Square	6,000 IND	85	29	17.52	4.72
		Gray/Black	8,000 IND	88	30	13.80
	Gray/Black	4,350 LED	86	30	12.52	4.12

G. FROZEN	4,000 INC	295	103	\$9.78	\$5.47
	7,000 MV	175	73	12.67	7.27
	11,000 MV	250	96	15.87	9.68
	20,000 MV	400	150	24.92	14.12



**RATE SCHEDULE E-58  
CLASSIFIED SERVICE  
STREET LIGHTING SERVICE**

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NOTES:

1. Investment by Company. These rates are applicable where the Company provides the initial investment to purchase and install all facilities necessary for street lighting service. The Company will own, operate, and maintain the street lighting system.
2. Investment by Others. These rates are applicable in those instances where the requesting entity or individual purchases and installs the street lighting facilities at their own expense and in accordance with Company specifications. These rates will also apply in the instance where the customer provides a non-refundable advance to the Company to cover the Company's cost of purchasing and installing the street lighting system. The Company retains ownership of the street lighting system and provides operation and maintenance for all facilities.
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 November 1, 1986.
9. MV = Mercury Vapor. Mercury Vapor lighting charges are applicable and available only to those customers being served and those installation in service on November 1, 1986 in accordance with A.R.S. §49-1104(A).
10. LED = Light Emitting Diode
11. IND = Induction



**RATE SCHEDULE E-58  
CLASSIFIED SERVICE  
STREET LIGHTING SERVICE**

**II. POLES**

			RATES		
			Height	Investment by Company	Investment by Others
A. Anchor Base Mounted (Flush)	Round Steel	1 Simplex Adapter	12 ft.	\$12.17	\$1.68
			22 ft.	13.70	1.88
			25 ft.	14.82	2.05
			30 ft.	17.03	2.34
			32 ft.	17.89	2.37
		2 Simplex Adapters	12 ft.	12.98	1.79
			22 ft.	14.91	2.06
			25 ft.	15.55	2.14
			30 ft.	18.07	2.49
			32 ft.	19.28	2.66
	Square Steel	5"	13 ft.	13.95	1.92
			15 ft.	12.47	1.72
			23 ft.	14.79	2.03
			25 ft.	16.26	2.23
			28 ft.	18.05	2.48
			32 ft.	17.95	2.47
	Concrete		12 ft.	41.58	5.73
Fiberglass		12 ft.	35.21	4.85	
Decorative Transit Pedestrian		4"	16 ft.	34.33	4.73
Decorative Transit		6"	30 ft.	66.28	9.13
Hinged Poles		Square	15 ft.	13.20	1.08
		Round	19 ft.	11.93	.97
B. Anchor Base Mounted (Pedestal)	Round Steel	1 Simplex Adapter	12 ft.	11.71	1.61
			22 ft.	13.24	1.82
			25 ft.	14.35	1.98
			30 ft.	16.58	2.29
			32 ft.	17.41	2.40
		2 Simplex Adapters	12 ft.	12.51	1.72
			22 ft.	13.97	1.92
			25 ft.	15.08	2.07
			30 ft.	17.61	2.42
			32 ft.	18.81	2.59
	3 Bolt Arm		32 ft.	21.62	2.97
	Square Steel	5"	13 ft.	13.50	1.86
			15 ft.	13.80	1.89
			23 ft.	14.32	1.98
			25 ft.	15.80	2.19
			28 ft.	17.56	2.42
32 ft.			18.23	2.50	



**RATE SCHEDULE E-58  
CLASSIFIED SERVICE  
STREET LIGHTING SERVICE**

**II POLES (cont)**

		RATES			
		Height	Investment by Company	Investment by Others	
C. Direct Bury	Round Steel	19 ft.	\$18.42	\$2.54	
		30 ft.	14.38	2.66	
		38 ft.	17.55	2.73	
		Self Support	40 ft.	21.62	3.42
		Stepped	25 ft.	49.72	4.06
			32 ft.	52.36	4.27
	49 ft.		64.99	8.96	
	Square Steel	4"	34 ft.	15.87	2.75
		5"	20 ft.	15.07	2.49
			30 ft.	15.71	2.59
			38 ft.	17.05	2.96
		8"	28 ft.	28.45	2.32
			32 ft.	29.74	2.43
	Decorative Transit	41 ft 6 in	20.47	3.01	
	Decorative Transit	47 ft.	25.50	3.75	
	Steel Distribution Pole (for lighting only)	35 ft.	23.54	3.10	
D. Post Top	Decorative Transit Anchor Base	16 ft.	35.07	4.82	
	Gray Steel/Fiberglass	23 ft.	12.16	2.00	
	Black Steel	23 ft.	13.41	2.21	
E. Existing distribution pole suitable for streetlight use			1.48	--	
F. FROZEN	Wood Poles	30 ft.	<del>\$8.95</del>	\$1.55	
		35 ft.	<del>8.95</del>	1.48	

NOTE: The monthly rate for all new poles includes up to 300 feet of overhead secondary wire, or up to 300 feet of underground secondary wire if the customer provides earthwork and conduit (excluding the underground to overhead transition).

**III. ANCHOR BASE**

		RATES		
		Height	Investment by Company	Investment by Others
A. Flush		4 ft.	\$9.91	\$1.36
		6 ft.	11.82	2.05
B. Pedestal		8 ft.	13.54	2.36
	For 32' Round Steel Pole only	4 ft. 6"	9.39	1.63



**RATE SCHEDULE E-58  
CLASSIFIED SERVICE  
STREET LIGHTING SERVICE**

**IV. CHARGES FOR OPTIONAL OR ADDITIONAL EQUIPMENT**

		RATES	
		Company Owned	
Underground Circuit Charges:			
a.	Per foot of cable, installed under paving		\$0.15716
b.	Per foot of cable, not installed under paving		0.05589

**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 Charges for each Charge Type							Monthly Fixed Charge Rate
Charge Type	Monthly Charge	=	Cost Inputs	x	PV Factor	x	
1	Carrying Cost (fixtures)	=	Equipment Cost (installed)	x	NA	x	1.533%
2	Carrying Cost (poles)	=	Equipment Cost (installed)	x	NA	x	1.449%
3	Fixture Replacement Cost	=	Equipment Cost (installed)	x	0.132	x	1.533%
4	Pole, Anchor Replacement Cost	=	Equipment Cost (installed)	x	0.082	x	1.449%
5	Lighting O&M	=	O&M Cost (lifecycle)	x	0.381	x	1.533%
Charge Type	Monthly Charge	=	kWh Input	x	\$/kWh		
6	Generation	=	kWh per month	x	0.04023		
7	T&D, RCS, SB	=	kWh per month	x	0.03516		

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
Fixture - IBC	1,5,6,7
Fixture - IBO	3,5,6,7
Pole, Anchor Base - IBC	2
Pole, Anchor Base - IBO	4



**RATE SCHEDULE E-58  
CLASSIFIED SERVICE  
STREET LIGHTING SERVICE**

**TRIP CHARGE**

When Company is not the responsible party contracted for the regular maintenance of a street lighting system owned by a city, town or other governmental entity, a \$100.00 trip charge per light will be charged when Customer requests a disconnect and/or reconnect of service in order to accommodate the maintenance activities of the Customer or its designee(s) on their street light equipment. The trip charge will also apply when Customer request disconnect or reconnect for non-maintenance purposes.

**ADJUSTMENTS**

1. The bill is subject to the Renewable Energy Standard as set forth in the Company's Adjustment Schedule REAC-1 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, and 73183.
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 and Arizona Corporation Commission Decision No. 73183.
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. Street lighting facilities installed under this rate schedule are of the type currently being furnished by Company as standard at the time service is initially requested. Standard facilities are those listed in the Company's Transmission and Distribution Construction Standards book.
2. The Company cannot guarantee that streetlighting facilities will always operate as intended. Therefore, the customer will be responsible for notifying the Company when the streetlighting 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.
3. The customer's bill will not be reduced due to lamp, photocontrol or cable repair or replacement outages.



**RATE SCHEDULE E-58  
CLASSIFIED SERVICE  
STREET LIGHTING SERVICE**

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SPECIAL PROVISIONS (cont')

4. 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.

NON-STANDARD FACILITIES

Non-standard facilities (non-standard being defined as any facility not listed in the Company's Transmission and Distribution Construction Standards book) do not qualify for this rate schedule. At the Company's discretion, such facilities may be served under another of the Company's rate schedules.

EXTENSION OF STREET LIGHTING SYSTEM

The Company will extend its standard street lighting system up to a distance of 300 feet for each additional lighting installation without cost at the request of the customer. When the extension is underground the customer will provide earthwork as specified in of the Company's Service Schedule 3, Conditions Governing Extensions of Electric Distribution Lines and Services; or, at the applicant's request, the Company will provide such earthwork and the applicant will be required to pay a non-refundable contribution in aid of construction equal to the cost of such earthwork. Any additional extension required (over and above the first 300 feet) will be provided by Company for a contribution in aid of construction equal to the cost of the additional extension.

Extensions to isolated areas requiring a substantial extension of the electric distribution system, as opposed to an extension of the street lighting system, will require a special study to determine the terms and conditions under which the Company will undertake such an extension.

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.

**NON-REDLINE**



**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	



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

**RATES (cont)**

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

	Lumen	Watts	kWh	RATES		
				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	
	Gray/Bronze	3,500 IND	55	19	9.75	2.01
		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	
	Gray/Bronze	3,300 LED	43	15	8.36	1.71
	Gray/Bronze	5,300 LED	67	23	9.70	2.32
	Gray/Bronze	8,300 LED	106	37	12.58	3.37
	Gray/Bronze	10,500 LED	130	45	14.00	3.97
	Gray/Bronze	20,000 LED	258	89	24.33	7.29
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	



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

RATES (cont)

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

					RATES	
		Lumens	Watts	kWh	Company Owned	Customer Owned
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 Transit	9,500 HPS	100	41	32.47	10.24
	Copper Square	6,000 IND	85	29	17.52	2.77
	Gray/Black	8,000 IND	88	30	13.80	2.84
	Gray/Black	4350 LED	86	30	12.52	2.84
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

- 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



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

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



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

RATES (cont)

II. POLES (cont)

			RATES	
			Height	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
		49 ft.	64.99	
	Square Steel	4"	34 ft.	15.87
			20 ft.	15.07
		5"	30 ft.	15.71
			38 ft.	17.05
		8"	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.



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

**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	
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	
4	Generation	=	kWh per month	x	0.04023		
5	T&D, RCS, system benefits	=	kWh per month	x	0.03516		

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



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

TRIP CHARGE

When Company is not the responsible party contracted for the regular maintenance of a dusk to dawn lighting system owned by a city, town or other governmental entity, a \$100.00 trip charge per light will be charged when customer requests a disconnect and/or reconnect of service in order to accommodate the maintenance activities of the customer or its designee(s) on their dusk to dawn equipment. The trip charge will also apply when customer request disconnect or reconnect for non-maintenance purposes.

ADJUSTMENTS

1. The bill is subject to the Renewable Energy Standard as set forth in the Company's Adjustment Schedule REAC-1 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, and 73183.
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, and Arizona Corporation Commission Decision No. 73183.
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



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

SPECIAL PROVISIONS (cont')

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.
8. Lighting Equipment and services with an initial Company cost exceeding \$25,000 shall require a financial liability agreement between the Company and the customer.

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.



**RATE SCHEDULE E-58  
CLASSIFIED SERVICE  
STREET LIGHTING SERVICE**

**AVAILABILITY**

This rate schedule is available in those portions of cities, towns and unincorporated communities in which Company does a general retail electric business and where Company has installed a multiple or series street lighting system of adequate capacity for the service to be rendered.

**APPLICATION**

This rate schedule is applicable to service for lighting public streets, alleys, thoroughfares, public parks and playgrounds from dusk to dawn by use of Company's facilities where such service for the entire area is contracted for from the Company by the city, town, other governmental agencies, or a responsible individual for unincorporated communities. 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 bill shall be computed at the following rates for each type of standard facility and/or service utilized to provide street lighting, plus any adjustments incorporated in this schedule:

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

	Lumen	Watts	kWh	RATES	
				Investment by Company	Investment by Others
A. Acorn	9,500 HPS	100	41	\$ 27.06	\$9.22
	16,000 HPS	150	69	30.04	11.65
	6000 IND	85	29	17.87	4.77
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	3.65
	8,400 IND	100	34	9.93	4.05
	10,200 IND	120	41	10.91	4.63
	13,000 IND	150	52	12.05	5.50
	20,500 IND	200	69	13.72	6.84
22,500 IND	265	91	16.37	8.62	
5,800 LED	94	32	16.53	4.79	
7,400 LED	127	44	18.96	5.89	
12,300 LED	203	70	23.66	8.22	



**RATE SCHEDULE E-58  
CLASSIFIED SERVICE  
STREET LIGHTING SERVICE**

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

	Lumen	Watts	kWh	RATES		
				Investment by Company	Investment by Others	
B. Architectural	9,200 LED	139	48	\$23.77	\$6.78	
	13,620 LED	202	70	26.45	8.58	
	6,400 LED	89	31	16.61	4.73	
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	3.50	
	6,400 IND	85	29	8.33	3.51	
	8,000 IND	88	30	9.72	3.75	
	8,400 IND	100	34	9.01	3.93	
	10,200 IND	120	41	9.69	4.47	
	13,000 IND	150	52	10.67	5.32	
	15,250 IND	200	69	12.87	6.73	
	22,500 IND	250	86	17.22	8.41	
	Gray/Bronze	3,500 IND	55	19	9.75	3.03
		6,000 LED	95	33	15.83	4.76
		8,700 LED	142	49	17.80	6.06
		9,600 LED	157	54	18.94	6.54
		11,600 B-LED	181	62	17.67	6.90
Gray/Bronze	3,300 LED	43	15	8.36	2.59	
Gray/Bronze	5,300 LED	67	23	9.70	3.29	
Gray/Bronze	8,300 LED	106	37	12.58	4.59	
Gray/Bronze	10,500 LED	130	45	14.00	5.29	
Gray/Bronze	20,000 LED	258	89	24.33	9.54	
D. Decorative	9,500 HPS	100	41	37.09	11.11	
	16,000 HPS	150	69	36.88	12.41	
	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	



**RATE SCHEDULE E-58  
CLASSIFIED SERVICE  
STREET LIGHTING SERVICE**

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

					Rates	
					Investment By Company	Investment By Others
		Lumens	Watts	kWh		
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 Transit	9,500 HPS	100	41	32.47	10.24
	Copper Square	6,000 IND	85	29	17.52	4.72
	Gray/Black	8,000 IND	88	30	13.80	4.29
	Gray/Black	4,350 LED	86	30	12.52	4.12

G. FROZEN	4,000 INC	295	103	\$9.78	\$5.47
	7,000 MV	175	73	12.67	7.27
	11,000 MV	250	96	15.87	9.68
	20,000 MV	400	150	24.92	14.12
	FROZEN				

**NOTES:**

1. Investment by Company. These rates are applicable where the Company provides the initial investment to purchase and install all facilities necessary for street lighting service. The Company will own, operate, and maintain the street lighting system.
2. Investment by Others. These rates are applicable in those instances where the requesting entity or individual purchases and installs the street lighting facilities at their own expense and in accordance with Company specifications. These rates will also apply in the instance where the customer provides a non-refundable advance to the Company to cover the Company's cost of purchasing and installing the street lighting system. The Company retains ownership of the street lighting system and provides operation and maintenance for all facilities.
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 November 1, 1986.
9. MV = Mercury Vapor. Mercury Vapor lighting charges are applicable and available only to those customers being served and those installation in service on November 1, 1986 in accordance with A.R.S. §49-1104(A).
10. LED = Light Emitting Diode
11. IND = Induction



**RATE SCHEDULE E-58  
CLASSIFIED SERVICE  
STREET LIGHTING SERVICE**

**II. POLES**

			RATES		
			Height	Investment by Company	Investment by Others
A. Anchor Base Mounted (Flush)	Round Steel	1 Simplex Adapter	12 ft.	\$12.17	\$1.68
			22 ft.	13.70	1.88
			25 ft.	14.82	2.05
			30 ft.	17.03	2.34
			32 ft.	17.89	2.37
		2 Simplex Adapters	12 ft.	12.98	1.79
			22 ft.	14.91	2.06
			25 ft.	15.55	2.14
			30 ft.	18.07	2.49
			32 ft.	19.28	2.66
	Square Steel	5"	13 ft.	13.95	1.92
			15 ft.	12.47	1.72
			23 ft.	14.79	2.03
			25 ft.	16.26	2.23
			28 ft.	18.05	2.48
			32 ft.	17.95	2.47
	Concrete		12 ft.	41.58	5.73
Fiberglass		12 ft.	35.21	4.85	
Decorative Transit Pedestrian		4"	16 ft.	34.33	4.73
Decorative Transit		6"	30 ft.	66.28	9.13
Hinged Poles		Square	15 ft.	13.20	1.08
		Round	19 ft.	11.93	.97
B. Anchor Base Mounted (Pedestal)	Round Steel	1 Simplex Adapter	12 ft.	11.71	1.61
			22 ft.	13.24	1.82
			25 ft.	14.35	1.98
			30 ft.	16.58	2.29
			32 ft.	17.41	2.40
		2 Simplex Adapters	12 ft.	12.51	1.72
			22 ft.	13.97	1.92
			25 ft.	15.08	2.07
			30 ft.	17.61	2.42
			32 ft.	18.81	2.59
	3 Bolt Arm		32 ft.	21.62	2.97
	Square Steel	5"	13 ft.	13.50	1.86
			15 ft.	13.80	1.89
			23 ft.	14.32	1.98
			25 ft.	15.80	2.19
28 ft.			17.56	2.42	
32 ft.			18.23	2.50	



**RATE SCHEDULE E-58  
CLASSIFIED SERVICE  
STREET LIGHTING SERVICE**

**II POLES (cont)**

		RATES			
		Height	Investment by Company	Investment by Others	
C. Direct Bury	Round Steel	19 ft.	\$18.42	\$2.54	
		30 ft.	14.38	2.66	
		38 ft.	17.55	2.73	
		Self Support Stepped	40 ft.	21.62	3.42
			25 ft.	49.72	4.06
			32 ft.	52.36	4.27
	Square Steel	4"	49 ft.	64.99	8.96
			34 ft.	15.87	2.75
			20 ft.	15.07	2.49
		5"	30 ft.	15.71	2.59
			38 ft.	17.05	2.96
			28 ft.	28.45	2.32
	Decorative Transit	32 ft.	29.74	2.43	
41 ft 6 in		20.47	3.01		
	Decorative Transit	47 ft.	25.50	3.75	
	Steel Distribution Pole (for lighting only)	35 ft.	23.54	3.10	
D. Post Top	Decorative Transit Anchor Base	16 ft.	35.07	4.82	
	Gray Steel/Fiberglass	23 ft.	12.16	2.00	
	Black Steel	23 ft.	13.41	2.21	
E. Existing distribution pole suitable for streetlight use			1.48	--	
F. FROZEN	Wood Poles	30 ft.	\$8.95	\$1.55	
		35 ft.	8.95	1.48	

NOTE: The monthly rate for all new poles includes up to 300 feet of overhead secondary wire, or up to 300 feet of underground secondary wire if the customer provides earthwork and conduit (excluding the underground to overhead transition).

**III. ANCHOR BASE**

		RATES		
		Height	Investment by Company	Investment by Others
A. Flush		4 ft.	\$9.91	\$1.36
		6 ft.	11.82	2.05
B. Pedestal		8 ft.	13.54	2.36
	For 32' Round Steel Pole only	4 ft. 6"	9.39	1.63



**RATE SCHEDULE E-58  
CLASSIFIED SERVICE  
STREET LIGHTING SERVICE**

**IV. CHARGES FOR OPTIONAL OR ADDITIONAL EQUIPMENT**

		RATES	
		Company Owned	
Underground Circuit Charges:			
a.	Per foot of cable, installed under paving		\$0.15716
b.	Per foot of cable, not installed under paving		0.05589

**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 Charges for each Charge Type							Monthly Fixed Charge Rate
Charge Type	Monthly Charge	=	Cost Inputs	x	PV Factor	x	
1	Carrying Cost (fixtures)	=	Equipment Cost (installed)	x	NA	x	1.533%
2	Carrying Cost (poles)	=	Equipment Cost (installed)	x	NA	x	1.449%
3	Fixture Replacement Cost	=	Equipment Cost (installed)	x	0.132	x	1.533%
4	Pole, Anchor Replacement Cost	=	Equipment Cost (installed)	x	0.082	x	1.449%
5	Lighting O&M	=	O&M Cost (lifecycle)	x	0.381	x	1.533%
Charge Type	Monthly Charge	=	kWh Input	x	\$/kWh		
6	Generation	=	kWh per month	x	0.04023		
7	T&D, RCS, SB	=	kWh per month	x	0.03516		

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
Fixture - IBC	1,5,6,7
Fixture - IBO	3,5,6,7
Pole, Anchor Base - IBC	2
Pole, Anchor Base - IBO	4



**RATE SCHEDULE E-58  
CLASSIFIED SERVICE  
STREET LIGHTING SERVICE**

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TRIP CHARGE

When Company is not the responsible party contracted for the regular maintenance of a street lighting system owned by a city, town or other governmental entity, a \$100.00 trip charge per light will be charged when Customer requests a disconnect and/or reconnect of service in order to accommodate the maintenance activities of the Customer or its designee(s) on their street light equipment. The trip charge will also apply when Customer request disconnect or reconnect for non-maintenance purposes.

ADJUSTMENTS

1. The bill is subject to the Renewable Energy Standard as set forth in the Company's Adjustment Schedule REAC-1 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, and 73183.
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 and Arizona Corporation Commission Decision No. 73183.
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. Street lighting facilities installed under this rate schedule are of the type currently being furnished by Company as standard at the time service is initially requested. Standard facilities are those listed in the Company's Transmission and Distribution Construction Standards book.
2. The Company cannot guarantee that streetlighting facilities will always operate as intended. Therefore, the customer will be responsible for notifying the Company when the streetlighting 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.
3. The customer's bill will not be reduced due to lamp, photocontrol or cable repair or replacement outages.



**RATE SCHEDULE E-58  
CLASSIFIED SERVICE  
STREET LIGHTING SERVICE**

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SPECIAL PROVISIONS (cont')

4. 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.

NON-STANDARD FACILITIES

Non-standard facilities (non-standard being defined as any facility not listed in the Company's Transmission and Distribution Construction Standards book) do not qualify for this rate schedule. At the Company's discretion, such facilities may be served under another of the Company's rate schedules.

EXTENSION OF STREET LIGHTING SYSTEM

The Company will extend its standard street lighting system up to a distance of 300 feet for each additional lighting installation without cost at the request of the customer. When the extension is underground the customer will provide earthwork as specified in of the Company's Service Schedule 3, Conditions Governing Extensions of Electric Distribution Lines and Services; or, at the applicant's request, the Company will provide such earthwork and the applicant will be required to pay a non-refundable contribution in aid of construction equal to the cost of such earthwork. Any additional extension required (over and above the first 300 feet) will be provided by Company for a contribution in aid of construction equal to the cost of the additional extension.

Extensions to isolated areas requiring a substantial extension of the electric distribution system, as opposed to an extension of the street lighting system, will require a special study to determine the terms and conditions under which the Company will undertake such an extension.

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.

APS15237  
 May 13, 2013  
 New Equipment

E-47

EQUIPMENT	WATTS	LUMENS	BASE COST	INSTALLATION COSTS	TOTAL INSTALLED COST
55 Watt Cobra/Roadway IND GRAY/BRONZE	55	3,500 \$	472.61 \$	32.55 \$	505.16
43 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	43	3,300 \$	401.51 \$	32.55 \$	434.06
67 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	67	5,300 \$	449.17 \$	32.55 \$	481.72
106 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	106	8,300 \$	568.33 \$	32.55 \$	600.88
130 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	130	10,500 \$	621.96 \$	32.55 \$	654.51
258 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	258	20,000 \$	1,078.75 \$	32.55 \$	1,111.30
88 Watt Salem IND GRAY/BLACK	88	8,000 \$	682.41 \$	32.55 \$	714.96
86 Watt Salem LED GRAY/BLACK	86	4,350 \$	598.96 \$	32.55 \$	631.51

kWh/Month	WATTS	HRS/YEAR	MONTHS/YEAR	WATTS PER kWh	kWh PER MONTH
55 Watt Cobra/Roadway IND GRAY/BRONZE	55	4133	12	1,000	19
43 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	43	4133	12	1,000	15
67 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	67	4133	12	1,000	23
106 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	106	4133	12	1,000	37
130 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	130	4133	12	1,000	45
258 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	258	4133	12	1,000	89
88 Watt Salem IND GRAY/BLACK	88	4133	12	1,000	30
86 Watt Salem LED GRAY/BLACK	86	4133	12	1,000	30

55 Watt Cobra/Roadway IND GRAY/BRONZE	\$	100.00
43 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$	100.00
67 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$	100.00
106 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$	100.00
130 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$	100.00
258 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$	100.00
88 Watt Salem IND GRAY/BLACK	\$	100.00
86 Watt Salem LED GRAY/BLACK	\$	100.00

**MONTHLY FIXED**

CHARGE TYPE	PV FACTOR	CHARGE RATE
1	N/A	0.01533
2	0.381	0.01533
		<b>\$/kwh</b>
4		0.04023
5		0.03516

CHARGE TYPE	FIXTURES COMPANY OWNED	CARRYING COST 1	LIGHTING O & M 2	GENERATION 4	T&D, RCS, SYSTEM BENEFITS		TOTAL (Price)
					5	5	
55	Watt Cobra/Roadway IND GRAY/BRONZE	\$ 7.74	\$ 0.58	\$ 0.76	\$ 0.67	\$	9.75
43	Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 6.65	\$ 0.58	\$ 0.60	\$ 0.53	\$	8.36
67	Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 7.38	\$ 0.58	\$ 0.93	\$ 0.81	\$	9.70
106	Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 9.21	\$ 0.58	\$ 1.49	\$ 1.30	\$	12.58
130	Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 10.03	\$ 0.58	\$ 1.81	\$ 1.58	\$	14.00
258	Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 17.04	\$ 0.58	\$ 3.58	\$ 3.13	\$	24.33
88	Watt Salem IND GRAY/BLACK	\$ 10.96	\$ 0.58	\$ 1.21	\$ 1.05	\$	13.80
86	Watt Salem LED GRAY/BLACK	\$ 9.68	\$ 0.58	\$ 1.21	\$ 1.05	\$	12.52

**T&D, RCS,**

CHARGE TYPE	FIXTURES CUSTOMER OWNED	LIGHTING O & M 2	GENERATION 4	T&D, RCS, SYSTEM BENEFITS		TOTAL (Price)
				5	5	
55	Watt Cobra/Roadway IND GRAY/BRONZE	\$ 0.58	\$ 0.76	\$ 0.67	\$ 2.01	
43	Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 0.58	\$ 0.60	\$ 0.53	\$ 1.71	
67	Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 0.58	\$ 0.93	\$ 0.81	\$ 2.32	
106	Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 0.58	\$ 1.49	\$ 1.30	\$ 3.37	
130	Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 0.58	\$ 1.81	\$ 1.58	\$ 3.97	
258	Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 0.58	\$ 3.58	\$ 3.13	\$ 7.29	
88	Watt Salem IND GRAY/BLACK	\$ 0.58	\$ 1.21	\$ 1.05	\$ 2.84	
86	Watt Salem LED GRAY/BLACK	\$ 0.58	\$ 1.21	\$ 1.05	\$ 2.84	

APS15237  
 May 13, 2013  
 New Equipment

E-58

EQUIPMENT	WATTS	LUMENS	BASE COST	INSTALLATION COSTS	TOTAL INSTALLED COST
139 Watt Architectural LED R&L/FT	139	9020	1244.24	\$ 32.55	\$ 1,276.79
202 Watt Architectural LED Front/FT	202	13620	1310.44	\$ 32.55	\$ 1,342.99
89 Watt Architectural LED	89	6400	860.28	\$ 32.55	\$ 892.83
55 Watt Cobra/Roadway IND GRAY/BRONZE	55	3500	472.61	\$ 32.55	\$ 505.16
43 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	43	3300	401.51	\$ 32.55	\$ 434.06
67 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	67	5300	449.17	\$ 32.55	\$ 481.72
106 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	106	8300	568.33	\$ 32.55	\$ 600.88
130 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	130	10500	621.96	\$ 32.55	\$ 654.51
258 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	258	20000	1078.75	\$ 32.55	\$ 1,111.30
88 Watt Salem IND GRAY/BLACK	88	8000	682.41	\$ 32.55	\$ 714.96
86 Watt Salem LED GRAY/BLACK	86	4350	598.96	\$ 32.55	\$ 631.51

kWh/Month	WATTS	HRS/YEAR	MONTHS/YEAR	WATTS PER kWh	kWh PER MONTH
139 Watt Architectural LED R&L/FT	139	4133	12	1,000	48
202 Watt Architectural LED Front/FT	202	4133	12	1,000	70
89 Watt Architectural LED	89	4133	12	1,000	31
55 Watt Cobra/Roadway IND GRAY/BRONZE	55	4133	12	1,000	19
43 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	43	4133	12	1,000	15
67 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	67	4133	12	1,000	23
106 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	106	4133	12	1,000	37
130 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	130	4133	12	1,000	45
258 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	258	4133	12	1,000	89
88 Watt Salem IND GRAY/BLACK	88	4133	12	1,000	30
86 Watt Salem LED GRAY/BLACK	86	4133	12	1,000	30

O & M LIFETIME

139 Watt Architectural LED R&L/FT	\$ 100.00
202 Watt Architectural LED Front/FT	\$ 100.00
89 Watt Architectural LED	\$ 100.00
55 Watt Cobra/Roadway IND GRAY/BRONZE	\$ 100.00
43 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 100.00
67 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 100.00
106 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 100.00
130 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 100.00
258 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 100.00
88 Watt Salem IND GRAY/BLACK	\$ 100.00
86 Watt Salem LED GRAY/BLACK	\$ 100.00

CHARGE TYPE	PV FACTOR	MONTHLY FIXED CHARGE RATE
1	N/A	1.533%
3	0.132	1.533%
5	0.381	1.533%
6		\$/kWh
7		\$ 0.04023
		\$ 0.03516

FIXTURES INVESTMENT BY COMPANY CHARGE TYPE	CARRYING COST 1	LIGHTING O & M 5	GENERATION 6	T&D, RCS, SYSTEM BENEFITS 7		TOTAL (Price)
				GENERATION	T&D, RCS, SYSTEM BENEFITS	
139 Watt Architectural LED R&L/FT	\$ 19.57	\$ 0.58	\$ 1.93	\$ 1.69	\$ 1.69	\$ 23.77
202 Watt Architectural LED Front/FT	\$ 20.59	\$ 0.58	\$ 2.82	\$ 2.46	\$ 2.46	\$ 26.45
89 Watt Architectural LED	\$ 13.69	\$ 0.58	\$ 1.25	\$ 1.09	\$ 1.09	\$ 16.61
55 Watt Cobra/Roadway IND GRAY/BRONZE	\$ 7.74	\$ 0.58	\$ 0.76	\$ 0.67	\$ 0.67	\$ 9.75
43 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 6.65	\$ 0.58	\$ 0.60	\$ 0.53	\$ 0.53	\$ 8.36
67 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 7.38	\$ 0.58	\$ 0.93	\$ 0.81	\$ 0.81	\$ 9.70
106 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 9.21	\$ 0.58	\$ 1.49	\$ 1.30	\$ 1.30	\$ 12.58
130 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 10.03	\$ 0.58	\$ 1.81	\$ 1.58	\$ 1.58	\$ 14.00
258 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 17.04	\$ 0.58	\$ 3.58	\$ 3.13	\$ 3.13	\$ 24.33
88 Watt Salem IND GRAY/BLACK	\$ 10.96	\$ 0.58	\$ 1.21	\$ 1.05	\$ 1.05	\$ 13.80
86 Watt Salem LED GRAY/BLACK	\$ 9.68	\$ 0.58	\$ 1.21	\$ 1.05	\$ 1.05	\$ 12.52

FIXTURES INVESTMENT BY OTHERS CHARGE TYPE	FIXTURE REPLACEMENT 3	LIGHTING O & M 5	GENERATION 6	T&D, RCS, SYSTEM BENEFITS 7		TOTAL (Price)
				GENERATION	T&D, RCS, SYSTEM BENEFITS	
139 Watt Architectural LED R&L/FT	\$ 2.58	\$ 0.58	\$ 1.93	\$ 1.69	\$ 1.69	\$ 6.78
202 Watt Architectural LED Front/FT	\$ 2.72	\$ 0.58	\$ 2.82	\$ 2.46	\$ 2.46	\$ 8.58
89 Watt Architectural LED	\$ 1.81	\$ 0.58	\$ 1.25	\$ 1.09	\$ 1.09	\$ 4.73
55 Watt Cobra/Roadway IND GRAY/BRONZE	\$ 1.02	\$ 0.58	\$ 0.76	\$ 0.67	\$ 0.67	\$ 3.03
43 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 0.88	\$ 0.58	\$ 0.60	\$ 0.53	\$ 0.53	\$ 2.59
67 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 0.97	\$ 0.58	\$ 0.93	\$ 0.81	\$ 0.81	\$ 3.29
106 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 1.22	\$ 0.58	\$ 1.49	\$ 1.30	\$ 1.30	\$ 4.59
130 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 1.32	\$ 0.58	\$ 1.81	\$ 1.58	\$ 1.58	\$ 5.29
258 Watt Scalable Cobra/Roadway LED GRAY/BRONZE	\$ 2.25	\$ 0.58	\$ 3.58	\$ 3.13	\$ 3.13	\$ 9.54
88 Watt Salem IND GRAY/BLACK	\$ 1.45	\$ 0.58	\$ 1.21	\$ 1.05	\$ 1.05	\$ 4.29
86 Watt Salem LED GRAY/BLACK	\$ 1.28	\$ 0.58	\$ 1.21	\$ 1.05	\$ 1.05	\$ 4.12