

- **City of Denver Standards for Street Light Spacing**

Since the City of Denver standards for roadway construction generally call for asphalt pavement and specific street widths (depending on street classification) the following standards for street light pole type and horizontal spacing can be used by most developers and project designers.

LOCAL STREETS (Typical Width 32-36 Feet)

LIGHT / POLE TYPE: 100 watt High Pressure Sodium Lamp / Curvilinear Style Cutoff Luminaire / 35 foot direct-bury, tapered fiberglass pole (finished height above grade to be 30 feet) with an 8 inch bracket arm / pole and luminaire to be Federal Green (Federal Color No. 14056)

SPACING: Typically 225-250 feet between units. One unit required at each public street intersection. Mid-block units generally are to be placed on lot lines in either a staggered or one side only pattern. Spacing may be less than 225 feet through curved roadway sections or where the distance between intersections creates an irregular spacing pattern. Spacing between units is not to exceed 250 feet.

COLLECTOR STREETS (Typical Width 44-54 Feet)

LIGHT / POLE TYPE: 250 watt High Pressure Sodium Lamp / Curvilinear Style Cutoff Luminaire / 35 foot tapered steel pole on a pre-cast concrete foundation with an 8 inch bracket arm / pole and luminaire to be Federal Green (Federal Color Code No. 14056)

SPACING: Typically 250 feet between units. One unit required at each public street intersection. Mid-block units are to be spaced between 225 and 260 feet apart in a staggered pattern. Spacing adjustments may be required due to local street intersections and private driveways.

- **City of Denver Standards for Street Light Spacing (continued)**

ARTERIAL STREETS (Typical width 60-88 feet with a raised, landscaped median)

LIGHT / POLE TYPE: 250 watt High Pressure Sodium Lamp / Curvilinear Style Cutoff Luminaire / 35 foot tapered steel pole on a pre-cast concrete foundation with an 8 inch bracket arm / pole and luminaire to be Federal Green (Federal Color Code No. 14056)

SPACING: Units located on outside edge of roadway in two possible patterns:

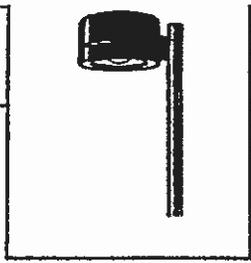
1. **Staggered pattern**

Typically 125 feet between units. Two units required at each public street intersection. Units are to be placed on or near corners and diagonally opposite each other. Mid-block units are to be spaced between 110 and 130 feet apart alternating from one side of the street to the other. Spacing between units on the same side of the street will typically be 250 feet. Spacing adjustments may be required due to private driveways locations.

Or 2. **Opposite Pattern**

Typical spacing of 200 feet between units located on each side of the roadway, generally directly opposite one another. Minimum of two units required at each public street intersection but four units may be placed, one on each corner, if the intersection is over 120 feet wide measured from radius P.C. to radius P.C. Spacing adjustments may be required due to private driveway locations, but the maximum mid-block spacing between units on one side of the roadway is 220 feet.

CITY AND COUNTY OF DENVER, COLORADO



TRANSPORTATION DIVISION OF PUBLIC WORKS

Curvilinear Style Cutoff

- Luminalres:** Curvilinear Cutoff
- Lamps:** 400, 250, 100 Watt High Pressure Sodium
400, 250 Watt Metal Halide (availability limited)
- Poles:** 30' and 35' Fiberglass, 35' and 39' Steel
- Foundations:** None Required for the direct bury fiberglass; Precast concrete otherwise
- Color:** Federal Green* (Denver Standard)
* COLOR CODE NO. 14056
- Application:** 35' direct bury fiberglass pole (30' above grade) with 100 watt HPS lamp is standard for use in all new residential subdivisions
- 35' steel pole on precast concrete foundation with 250 watt HPS lamp is standard for commercial areas and arterial roadways

Note: Other pole / source types used for special applications only

Required mounting heights based on lamp wattage:

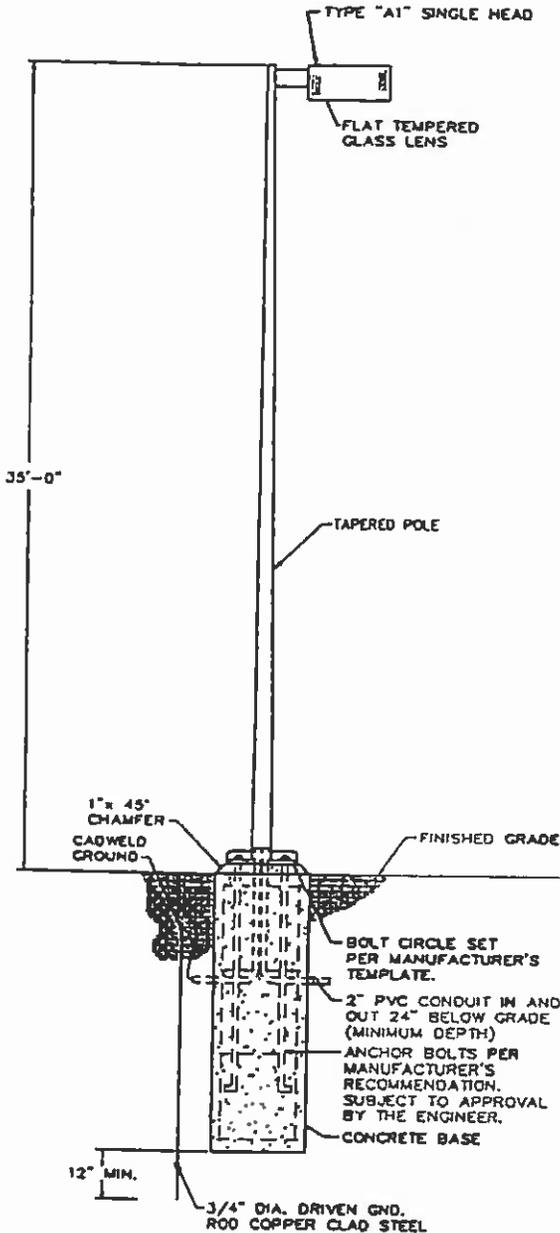
<u>Source type:</u>		<u>Height (feet above grade)</u>
High Pressure Sodium	400 watts	39'
	250 watts	35'
	100 watts	30'
Metal Halide	400 watts	35'
	250 watts	30'

EXCERPTED FROM

PSCO STREET LIGHTING GUIDE (1991)

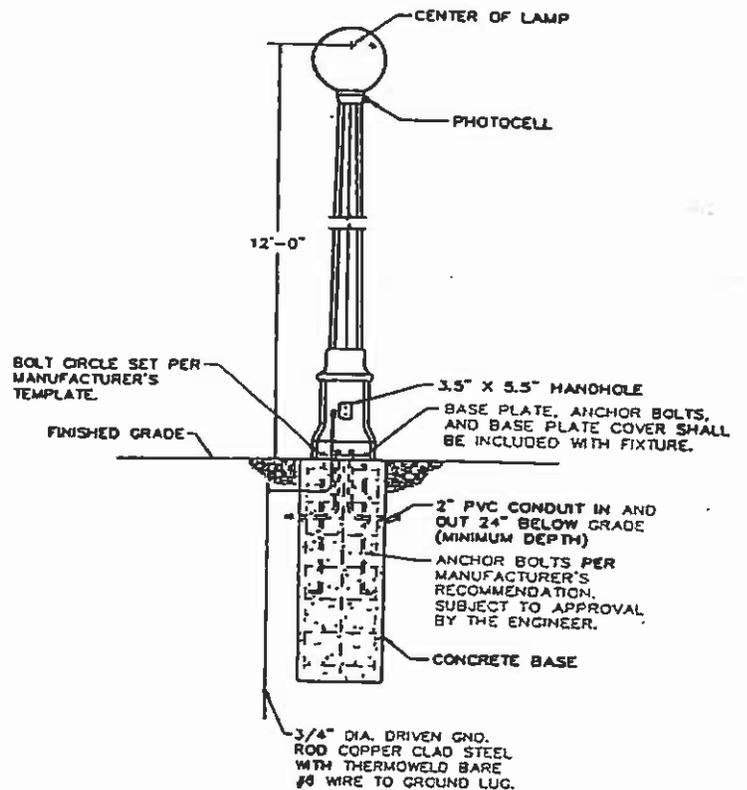
LUMINAIRE FIXTURE SCHEDULE

KEY	QTY	LAMPS		LUMINAIRE DESCRIPTION		MOUNTING DATA		LUMINAIRE SPECIFICATIONS		POLE DESCRIPTION		POLE SPECIFICATIONS			
		TYPE	VOLTS	DESCRIPTION	FRESH	METHOD	HEIGHT	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	FRESH	HEIGHT	ARMS	U.A.	YES
A	X	250 HPS	120	CYLINDRICAL "HOCKEY PUCK" CURVILINEAR STYLE CUTOFF SINGLE HEAD LUMINAIRE. UNERZED BALLAST TRAY, WOOD BASE, SEALED AND GASKETED. FLAT GLASS LENS, SIDE ARM MOUNTED 35 FEET ABOVE GRADE ON ROUND, TAPERED STEEL POLE. HORIZONTAL LAMP WITH TYPE B DISTRIBUTION. PHOTOCELL AND TWISTLOCK SOCKET MOUNTED ON TOP OF FIXTURE. U.L. NET LOCATION LISTED.	FEDERAL GREEN 385# COLOR# 14054	POLE	35 FT.	CARCOO	GAZT-3-250HPS-120 SC-PC	35'-0" ROUND PUBLIC SERVICE STANDARD TAPERED STEEL POLE WITH STEEL ARM. TAPERED RESISTANT HAND HOLE COVER AT 1'-6" ABOVE THE BASE OF THE POLE. FURNISH ALL ACCESSORIES NECESSARY FOR MOUNTING POLE TO ARM / ARM TO FIXTURE 100 WPM RATED W/ 1.3 OUST FACTOR BOLT CIRCLE AND ANCHOR BOLTS AS PER MANUFACTURER'S RECOMMENDATION.	FEDERAL GREEN 385# COLOR# 14054	35 FT.	1	U.A.	TAL
								STERNER	FI-A-25-A-10-3H-P FP-250-S-120-HS						VALMONT
								KM	TA-C0521A-3-250-HS 120-CUSTOM COLOR A-30						KW INDUSTRIES
B	X	28W OF	120	HISTORIC PEDESTRIAN POLE AND GLOBE STYLE PRISMATIC REFRACTOR LENS WITH INTERNAL ALUMINUM REFLECTOR. 18" WHITE LEXAN GLOBE LENS. A PHOTOCELL WITH 3/8" NIPPLE SHALL BE MOUNTED IN THE CAPITAL. MOUNTED ON GRADE. SEE POLE BASE DETAIL.	FEDERAL GREEN 385# COLOR# 14054	POLE	12 FT.	CA SUPPLY	10018/11 w/38008/W	12'-0" STEEL TAPERED OCTAGONAL SHAPED POLE WITH 3.5" X 5.5" HANDHOLE. BASE SHALL BE 2 PIECE CAST IRON ORNAMENTAL SECURED BY INTERNAL SCREWS (21" DIA. MAX.) BOLT CIRCLE AND ANCHOR BOLTS AS PER MANUFACTURER'S RECOMMENDATION.	FEDERAL GREEN 385# COLOR# 14054	12 FT.	N/A	ANCHOR METAL 5051-127-12 CE21 W/CE21A	



A STREET LIGHT STANDARD DETAIL

NOT TO SCALE



B PEDESTRIAN LIGHT STANDARD DETAIL

NOT TO SCALE