

OPL42

4" Square Straight Steel Pole for Area Lights

Product Description

The OPL4v2 4-inch square straight steel poles are engineered for commercial, municipal, and industrial area lighting applications. The pole shaft is fabricated from high-grade structural steel tubing conforming to ASTM A500 Grade C specifications with an 11-gauge (.120") wall thickness and minimum yield strength of 50,000 PSI. The poles feature a fabricated carbon steel base plate (conforming to ASTM A36 standards), reinforced galvanized sheet stamped hand hole cover with grounding provisions, and a textured architectural bronze powder coat finish for long-term durability and corrosion resistance. The assembly also includes a removable pole-cap and a two-piece formed steel base cover for a clean finished appearance.

Construction

- Fabricated from high-grade structural steel tubing
- ASTM A500 Grade C steel shafts
- 11 Gauge (.120") wall thicknesses
- ASTM A36 fabricated carbon steel base plates
- Reinforced galvanized sheet stamped hand hole covers
- Two-piece formed steel base covers
- Textured architectural bronze powder coat finishes
- Removable polycarbonate pole cap included
- Designed for commercial, municipal, and industrial lighting applications
- Removable rubber mounting plugs included

Electrical

- Integrated ground screws and backbars
- Reinforced hand holes for wiring access
- Standard 4-90 drilling configurations
- Optional tenon mount configurations available

Installation

- Designed for straightforward installations
- Compatible with NICOR OAL Series LED Area Light fixtures
- Four (4) galvanized L-shaped anchor bolts (0.75" x 30" x 3") with template available
- Anchor bolts conform to ASTM F1554 Grade 55 with min. yield strength of 55,000 PSI
- 4-bolt mounting base configurations
- Available in 15', 20', and 25' heights
- Hand holes positioned 18" above bases

Listings

- ASTM A500 Grade C steel shafts
- ASTM A36 carbon steel base plates
- ASTM F1554 Grade 55 anchor bolts

Warranty

- 5-year limited system warranty standard

Compatible Fixtures

OAL3
OAL4
OAL5
OFL4*

* 150W and 320W models only

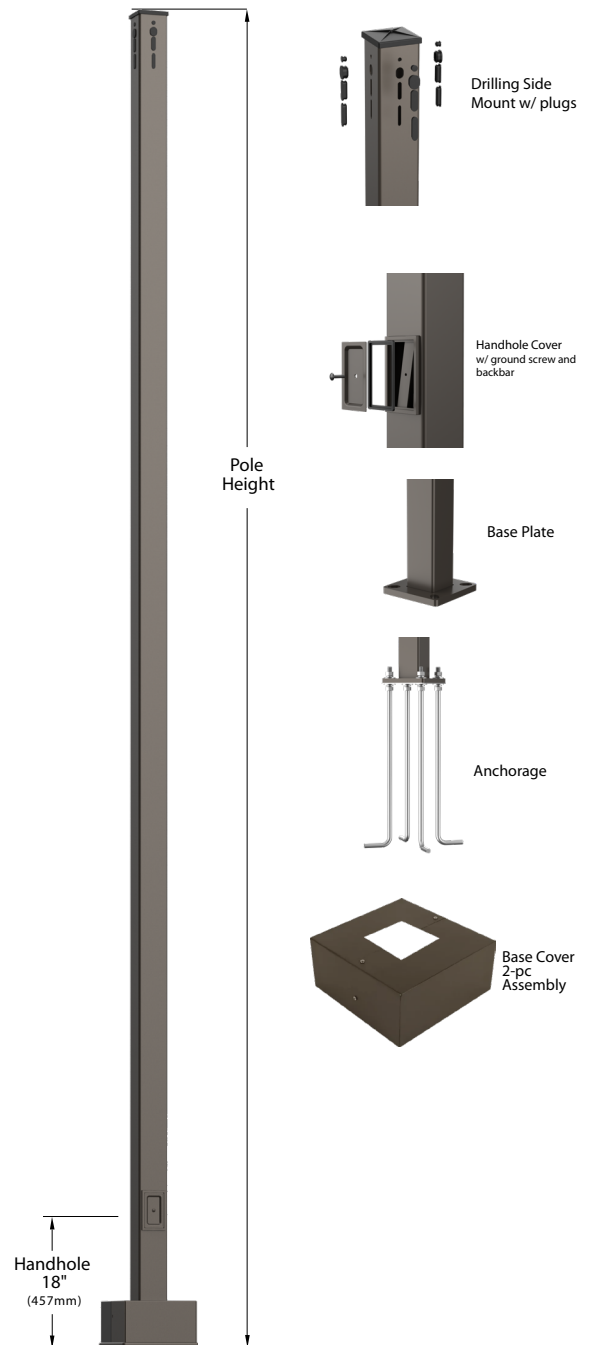
* Requires a tenon adapter

Project

Catalog

Type

Date



Ordering Information

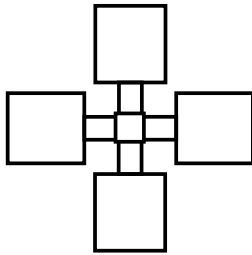
Example: OPL42NQS2011D4BZK

Series	Diameter	Version	Style/Shape	Material	Height	Gauge	Drill Mount	Finish	Kit
OPL	4 (4")	2	NQ (Non-tapered, Square)	S (Steel)	15 (15' height)	11	D4 (Quad fixture mount)	BZ (Bronze)	___(pole only)
					20 (20' height)				K* (kit)
					25 (25' height)				

* Complete kit consisting of the following part's: OPL42NQSXX11D4BZ, OPL42SQBASECOVERBZ, and OPL42SQPOLECAP

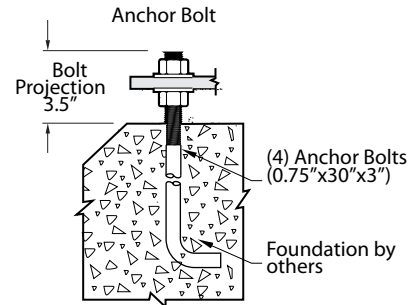
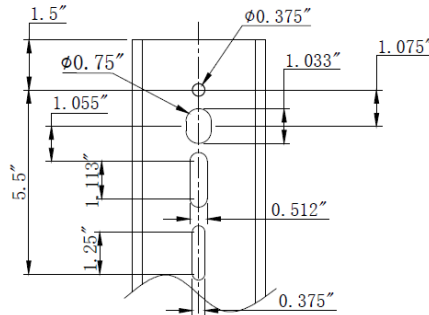
* Kit does not contain OPL42075303 (.75" x 30" x 3" Anchor bolts)

Drilling Side Mount & Bolt Circle

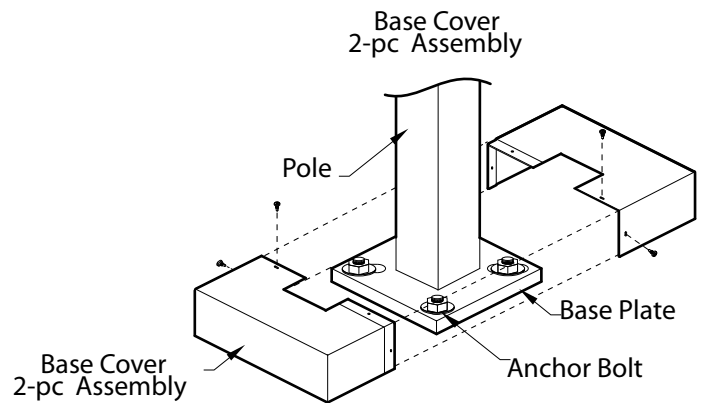
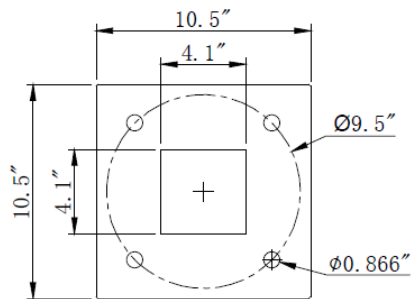


D4

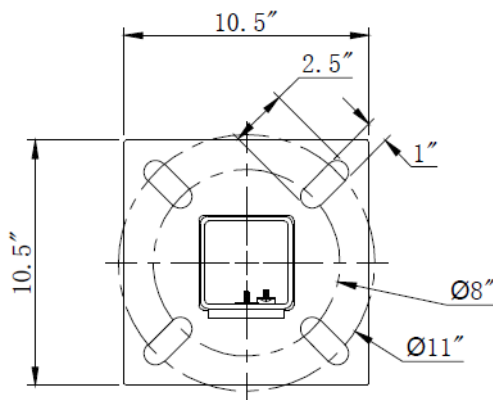
4-90



Bolt drilling pattern

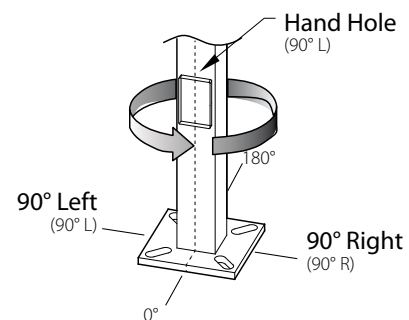


Base Plate



Location Diagram

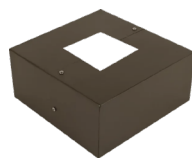
Please use this diagram to indicate placement location



Accessories

Poles, Covers, Anchor bolts

15' Square Straight Steel Pole	OPL42NQS1511D4BZ
20' Square Straight Steel Pole	OPL42NQS2011D4BZ
25' Square Straight Steel Pole	OPL42NQS2511D4BZ
Steel two piece pole base cover	OPL42SQBASECOVERBZ
Polycarbonate pole cap	OPL42SQPOLECAP
.75" x 30" x 3" Anchor bolts	OPL42075303



OPL42SQBASECOVERBZ



OPL42SQPOLECAP



OPL42075303

Tenon

Tenon Adapter	OPL41TNB
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OPL41TNB

Bullhorn

180° Bullhorn Adapter	OPL41BH2S
180° Triple Bullhorn Adapter	OPL41BH3S
120° Triple Bullhorn Adapter	OPL41BH3A
90° Quad Bullhorn Adapter	OPL41BH4A



OPL41BH2S



OPL41BH3S



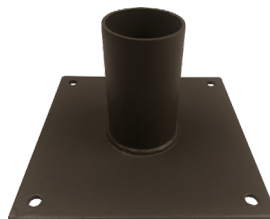
OPL41BH3A



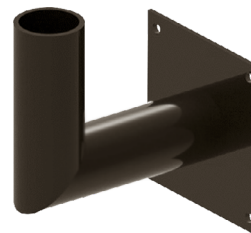
OPL41BH4A

Wall mounts

180° Wallmount bracket	OPL41WM1
90° Wallmount bracket	OPL41WM2

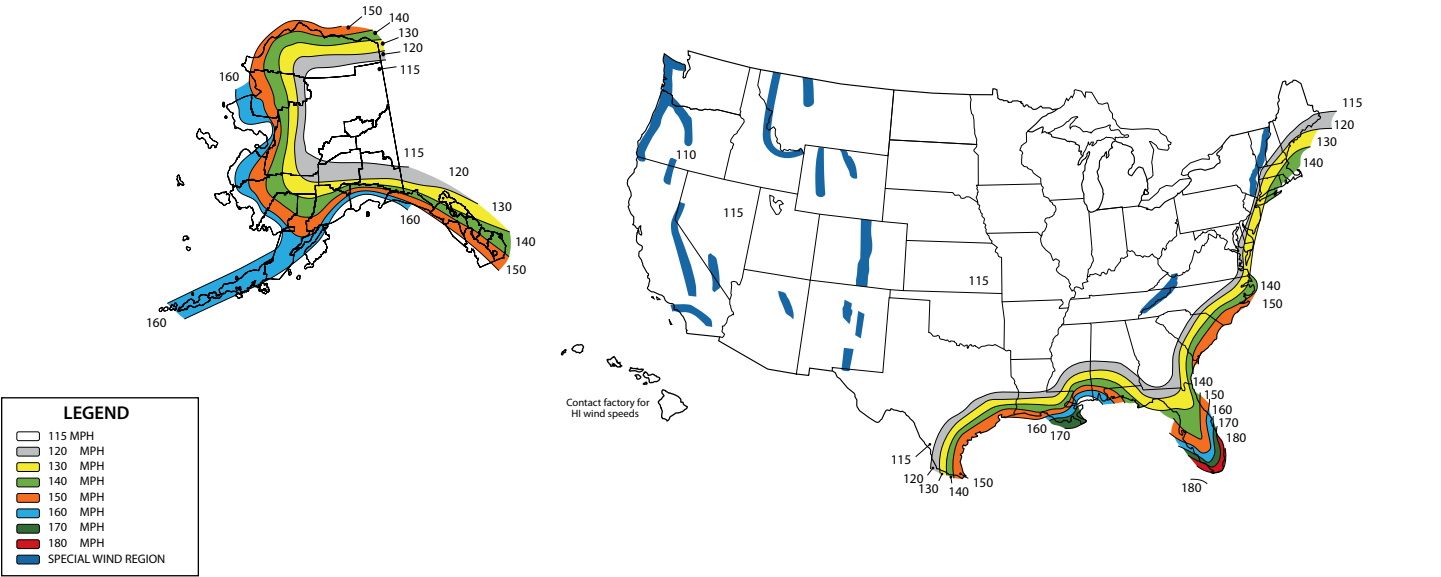


OPL41WM1



OPL41WM2

Wind Map



Wind Loading and Dimensional Data:

Pole Description		Total Luminaire Weight (Lbs)	90 MPH	100 MPH	110 MPH	120 MPH	130 MPH	140 MPH
Shaft Size & Wall Thickness	Mounting Height		Max EPA (SQ FT)	Max EPA (SQ FT)	Max EPA (SQ FT)	Max EPA (SQ FT)	Max EPA (SQ FT)	Max EPA (SQ FT)
4" Square 11 Gauge	10' (3050mm)	320	25.2	20	18.6	15.3	12.7	10.6
	12' (3660mm)	285	20.6	16.2	14.9	12.1	9.9	8.2
	14' (4270mm)	255	17	13.2	12.1	9.7	7.8	6.3
	16' (4880mm)	235	14	10.7	9.7	7.6	5.9	4.6
	18' (5490mm)	215	11.3	8.4	7.6	5.7	4.3	3.2
	20' (6100mm)	200	9.1	6.5	5.8	4.2	2.9	1.9

1. Effective Projected Area (EPA) in square feet. EPA's calculated using wind velocity (mph) indicated in accordance with 2009 AASHTO LTS-5 using a 25-year design life. Maximum EPA is based on the luminaire weight shown.
2. Consult factory on loading criteria for pole top mounted luminaires and/or brackets.
3. Variations from sizes above are available upon inquiry at the factory.
4. Satisfactory performance of poles is dependent upon the pole being properly attached to a supporting foundation of adequate design.