

**FOUR FACTORS ESSENTIAL TO SELECTING THE OPTIMUM POLE**

- 1) Height:** Is determined by the type and number of luminaires required to produce the specified minimum foot candles and acceptable distribution patterns.
- 2) E.P.A.:** Effective projected area is determined by multiplying the total number of square feet in surface area of all the equipment mounted on the pole (luminaire, brackets, arms, etc.) that is silhouetted against the force of the wind by a drag coefficient.
- 3) Weight:** Is the total weight of all equipment (luminaires, brackets, arms, etc.) that is to be mounted on and supported by the pole.
- 4) Wind Area:** Refers to the wind velocity map. This is a 50 year mean recurrence interval map. The wind values found on the map represent wind velocities 30 feet above the ground. Each pole in this catalog has been designed to support the listed E.P.A. and weight load silhouetted to the force of the wind velocities listed. The design is based on a 1.3 gust factor.

**NOTE:** If the pole is to be mounted above grade level, contact your Valmont Representative for custom loading analysis.

**POLE SELECTION**

**THE MODEL NUMBER IDENTIFIES:** Actual Pole Height in Feet and Inches, Top Diameter, Base Diameter, Wall Thickness, Shape of Shaft, Type of Base or Mounting, Fixture Mounting, Finishes and Options.

**CATALOG LOGIC**

Feet and Inches	Top Diameter	Base Diameter	Wall Thickness	Shape of Shaft	Base or Mounting	Fixture Mounting	Finishes	Options
0708	40	50	5	T	4	D6	DTG	

Feet & Inches*	Diameter*	Wall Thickness*	Shape of Shaft	Base or Mounting	Fixture Mounting	Finishes	Options
0708 - 8'	<b>TOP DIAMETER IN INCHES</b> 30 - 3"	<b>THICKNESS IN 32NDS OF AN INCH</b> 4 - 4/32" or 0.125" Wall	T - Tapered Round	4 - 4-Bolt Anchor Base	<b>D1</b> - 1@90° <b>D2</b> - 2@180° <b>D3</b> - 3@120° <b>D4</b> - 4@90° <b>D5</b> - 2@90° <b>D6</b> - 3@90° <b>P2</b> - 2-3/8" x 4 Tenon <b>P9</b> - Other Tenon (Please Specify)	<b>POLYESTER POWDER</b> <b>DBL</b> - Black <b>DCG</b> - Charcoal Gray <b>DDB</b> - Dark Bronze <b>DDB</b> - Dark Bronze <b>DMB</b> - Med Bronze <b>DNA</b> - Natural Alum <b>DSB</b> - Steel Blue <b>DSS</b> - Sandstone <b>DTG</b> - Dark Green <b>DWH</b> - White <b>SC</b> - Special Color (Please Specify)	See Accessory Section (Please Specify with Code #)  <b>311</b> - Light Bronze* <b>312</b> - Med Bronze* <b>313</b> - Dark Bronze* * Duranodic Anodize
0908 - 10'	30 - 3"	4 - 4/32" or 0.125" Wall					
1108 - 12'	40 - 4"	5 - 5/32" or 0.156" Wall					
1308 - 14'	<b>BASE DIAMETER* IN INCHES</b> 40 - 4"	6 - 6/32" or 0.188" Wall					
1508 - 16'	50 - 5"						
1708 - 18'	60 - 6" 70 - 7"				<b>ANODIZED</b> <b>204</b> - Clear Natural <b>312</b> - Med Bronze* <b>335</b> - Black*	<b>BRUSHED</b> <b>SBF</b> - Satin Brushed Finish	

Customer Approval: \_\_\_\_\_

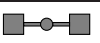
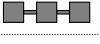
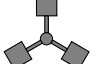
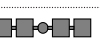
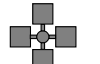
signature \_\_\_\_\_ date \_\_\_\_\_

Job Name: _____	Quote: _____
Client Name: _____	
Created By: _____	Date: _____

**SHIELDING FACTOR**

A shielding factor may be used when calculating the total E.P.A. for some multiple luminaire configurations.

**For Example:** Assume a single luminaire E.P.A. of 2.0:

CONFIGURATION	E.P.A.	SHIELDING FACTOR	TOTAL E.P.A.
2@180° 	2.0	x 2.0	= 4.0
3@180° 	2.0	x 3.0	= 6.0
3@120° 	2.0	x 2.3	= 4.6 (Shielded)
4@180° 	2.0	x 4.0	= 8.0
4@90° 	2.0	x 3.2	= 6.4 (Shielded)

**REQUIREMENTS**

**The Optimum Pole for Your Requirements Demand Specific Information**

**REQUIRED IS:**

- 1) Mounting Height,**
- 2) Total E.P.A.,** (effective projected area in square feet),
- 3) Total Weight** to be supported, and
- 4) Wind Velocity** at the job site (verify with wind velocity map and specifying engineer).

**ASSUME YOU REQUIRE:** **1)** 30 ft. Mounting Height, and **2)** (2) Luminaires with an E.P.A. of 1.9 ea. + A 2-Tenon Bracket with an E.P.A. of 0.78 (2 x 1.9 = 3.8 + 0.78 = 4.58 Total E.P.A.) and **3)** Total Weight - (2) Luminaires at 40lbs. ea. = 80lbs. + 11 lbs. for the 2-Tenon Bracket = 91 lbs., and **4)** 80 MPH Wind Velocity Location.

**REQUIRED:** 30ft. Height, 4.58 E.P.A., 91 lbs. Weight, 80 MPH Wind Velocity. Refer to Page 2-5, 30 to 50 ft. Round tapered poles-top mounted luminaires. Optimum pole for these requirements is model 2908-40705T4. If you would like assistance contact your Valmont Representative.