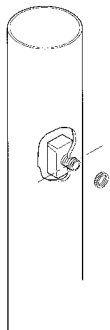




POLE & BRACKET OPTIONS

PH7 > PHOTOELECTRIC CELL

> shown here on a straight round pole

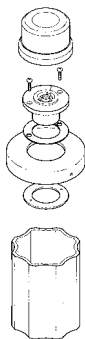


Specifications:

PH7 Photoelectric Cell: The PH7 button-type photoelectric cell is designed for pole or bracket installation. It is Pre-wired to the nearest opening. Working from individual project specifications, Lumec will determine the exact position of the photoelectric cell. Photoelectric cells can be installed on all types of straight or fluted aluminum or steel poles or brackets. The standard installation height of the PH7 photoelectric cell is 20" (508 mm) from the top of the pole. This distance may vary according to project specifications.

> Orientation shall be at 0° on the same axis as the pole access door unless otherwise specified.

PH8 > PHOTOELECTRIC CELL> shown here on a fluted pole

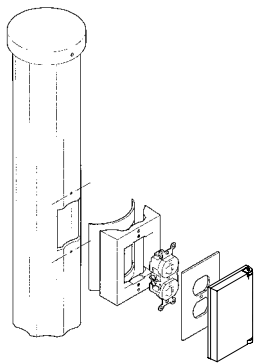


Specifications:

PH8 Photoelectric Cell: The PH8 twistlock photoelectric cell is designed for pole or bracket installation and comes pre-wired. Photoelectric cells can be installed on all types of straight or fluted aluminum or steel poles or brackets.

DR > DUPLEX RECEPTACLE / GFI > DR WITH GROUND FAULT INTERRUPTER

> shown here on a fluted shaft pole



Specifications:

DR and GFI: When the Duplex Receptacle (DR or GFI) unit is to be installed on a square pole, or any pole with a sufficient flat surface:

- > The DR or GFI is screwed into place in a rectangular hole.
- > A neoprene gasket and a cast-aluminum cover plate are placed on the duplex receptacle, ensuring full weathertightness when the cover plate is closed.

When the DR or GFI is to be installed on a round or fluted pole or bracket, however:

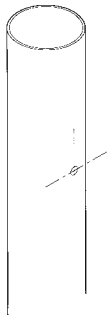
- > A duplex adaptor and a neoprene gasket are installed between the pole or bracket and the duplex receptacle.
- > A second neoprene gasket and a cast-aluminum cover plate are then placed on the duplex receptacle, ensuring full weathertightness when the cover plate is closed.

The duplex receptacle is pre-wired to the nearest opening. The standard installation height of the DR or GFI receptacle is 24" (610 mm) from the top of the pole. This distance may vary according to project specifications.

> Orientation shall be at 0° on the same axis as the pole access door unless otherwise specified.

LS > LOUDSPEAKER OUTLET

> shown here on a straight round pole



Specifications:

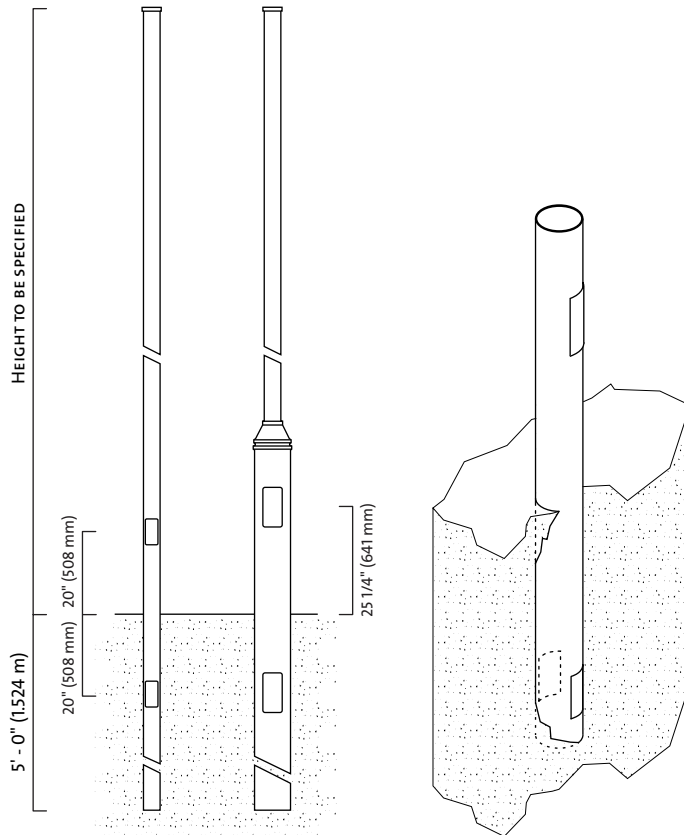
LS Loudspeaker Outlet (pole option only): The Loudspeaker Outlet (LS) is designed for pole-side installation and calls for a hole of 7/8" (22 mm) to be drilled on the side of the pole.

Working from individual project specifications, Lumec will determine the exact position of the LS Loudspeaker Outlet.

> Orientation shall be at 0° on the same axis as the pole access door unless otherwise specified.

> No connectors are provided with the LS loudspeaker outlet.

DE > DIRECT BURIED POLE DETAILS



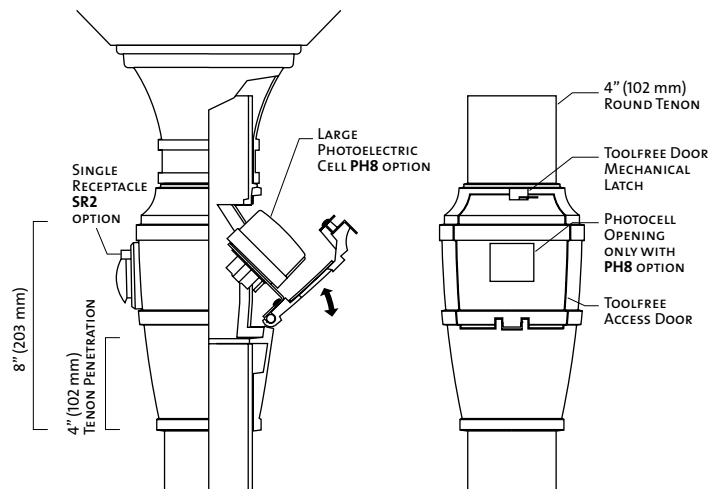
Specifications:

When the pole base is to be buried, the following details apply:

- > The pole is supplied 5' (1524 mm) longer.
This section which is to be buried is painted inside and out.
- > Two wire holes are placed opposite each other at 20" (508 mm) below grade.
- > The wire holes are the same size as the maintenance opening of the pole.
- > The pole is supplied without a base cover unless otherwise specified.

Please consult the factory for feasibility.

SFPH > UTILITIES FITTER



Specifications:

Specially designed for the Utilities need, the **SFPH** pole-top adaptor permits the installation of an optional single receptacle (**SR2**), a twist lock photocell (**PH8**) and an internal bloc connector (**BC**) on the pole under the luminaire.

The **SFPH** Utilities Fitter is a cast-aluminum pole-top adaptor with a cast aluminum door. The door offers toolfree access to the interior of the fitter by a mechanical latch.

The fitter slip-fits around a 4" (102 mm) or 3" (76 mm) round, by 4" (102 mm) long aluminum or steel pole or tenon.

All decorative traditional adaptors can be slip fitted over the SFPH straight 4" (120 mm) round by 4" (102 mm) long tenon.

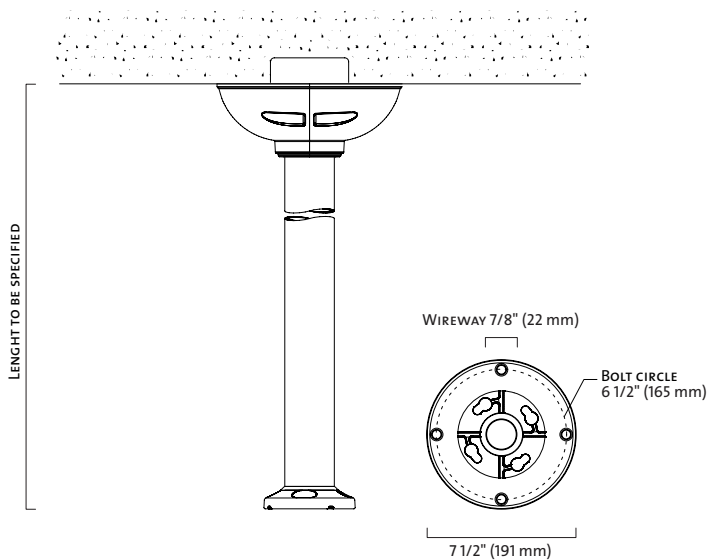
Options:

- PH8:** Large Photoelectric Cell Installed inside the fitter's door, the photocell pivots out for ease of maintenance. The door comes with a hole when the PH8 is ordered.
- SR2:** Single Receptacle. Installed on the fitter's back wall, opposite of the door, the receptacle comes complete with a cover.
- BC:** Bloc Connector. An internal bloc connector installed inside the fitter opposite of the door.

Note: Place ordering information before the Pole information in the luminaire ordering number.

SPX / MJ-LG > BRACKET OPTION DETAILS

SPX > OUTDOOR CEILING LUMINAIRE SUPPORT



Specifications:

Lumec's outdoor ceiling luminaire support **SPX** consists of a 2 3/8" O.D. (60 mm) section of extruded-aluminum tubing welded to an anchor plate.

The round, cast-aluminum anchor plate is suspended from the ceiling by four anchor bolts (supplied by others) and covers a junction box (supplied by others).

SPX-?: Ceiling Luminaire Support
Height specified in 6" (152 mm) increments

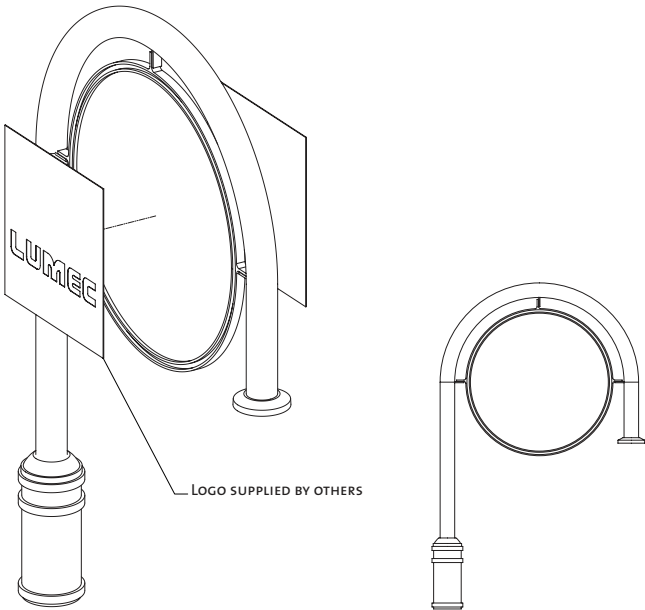
Minimum height / 8" (203 mm)

Maximum height / 10' - 0" (3.048 m)

> Bolts, nuts and washers not included.

MJ-LG > MEDAILLON TO ACCEPT LOGO

EPA: 6.4 sq.ft. **Weight:** 21.0 lbs. (9.5 kg)



Specifications:

The **LG** cast-aluminum medaillon is complete with a 21" (533 mm) round central surface to accept a logo.

The medaillon is mechanically assembled to the extruded-aluminum tube of the **MJ** mounting arm.

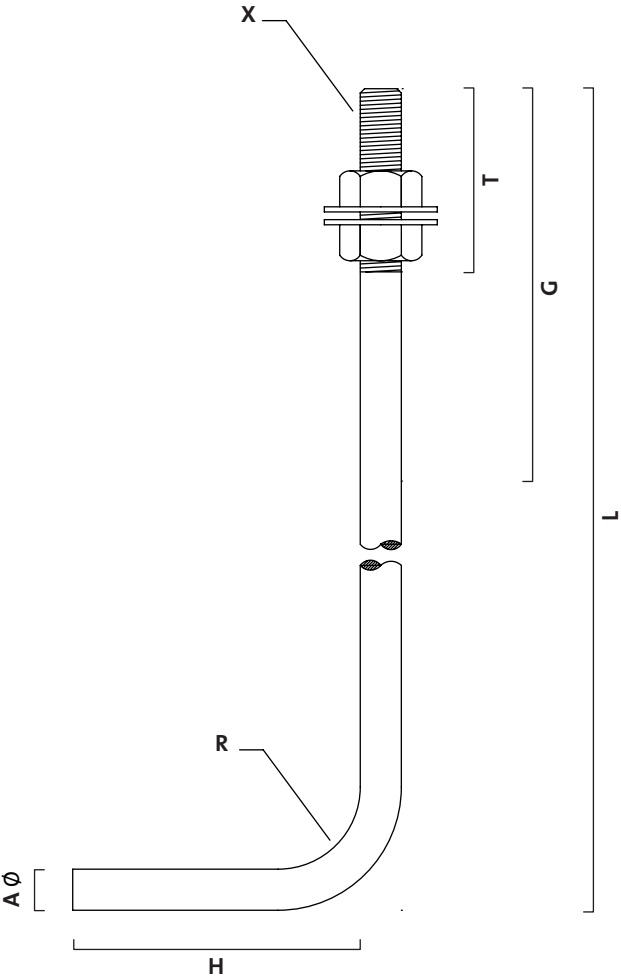
- > Only available with the MJ bracket.
- > The LG option may significantly change the EPA of the MJ bracket. Consult factory for details

> Dimensions code:

- X > Threads
- T > Threads length
- G > Galvanization lenght
- L > Overall length
- R > Radius
- A > Diameter of bolts

LUMEC #	EQUIVALENT #	X	Ø A	DIM. L	DIM. H	DIM. R	DIM. T	DIM. G
1" x 48"	1" x 45" x 3"	1 - 8 UNC	1"	45.00"	3.00"	2.00"	6.00"	10.00"
1" x 36"	1" x 33" x 3"	1 - 8 UNC	1"	33.00"	3.00"	1.00"	6.00"	10.00"
3/4" x 27"	3/4" x 24" x 3"	3/4 - 10 UNC	3/4"	24.00"	3.00"	1.00"	3.50"	7.50"
3/4" x 20"	3/4" x 17" x 3"	3/4 - 10 UNC	3/4"	17.00"	3.00"	1.00"	3.50"	7.50"
5/8" x 28"	5/8" x 24" x 4"	5/8 - 11 UNC	5/8"	24.00"	4.00"	1.00"	3.00"	7.00"
5/8" x 12"	5/8" x 9" x 3"	5/8 - 11 UNC	5/8"	9.00"	3.00"	1.00"	2.00"	4.00"
1/2" x 22"	1/2" x 18" x 4"	1/2 - 13 UNC	1/2"	18.00"	4.00"	1.00"	2.00"	6.00"
3/8" x 12"	3/8" x 9" x 3"	3/8 - 16 UNC	3/8"	9.00"	3.00"	0.50"	2.00"	4.00"

> Anchor bolts details:

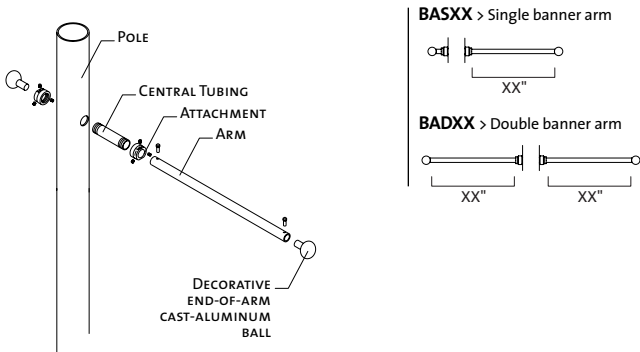


Note: Philips Lumec reserves the right to modify the above details to reflect changes in the cost of materials and/or production and/or design without prior notice.

BA > POLE OPTION DETAILS

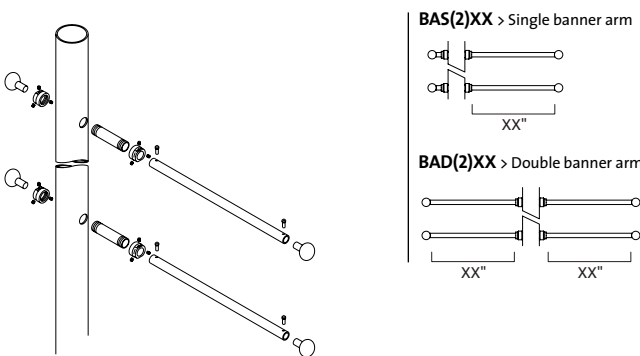
BAS / BAD > BANNER ARMS

> shown here on a straight round pole



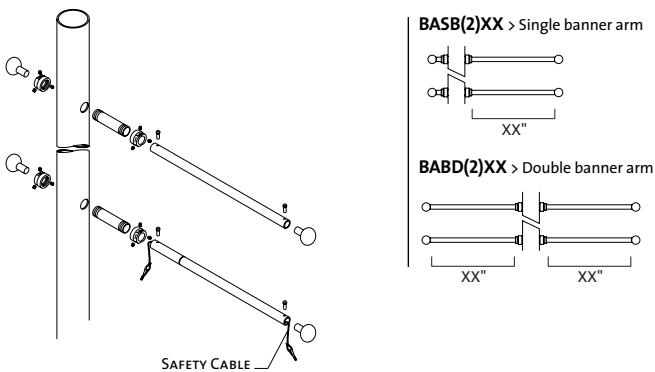
BAS(2) / BAD(2) > BANNER ARMS

> shown here on a straight round pole



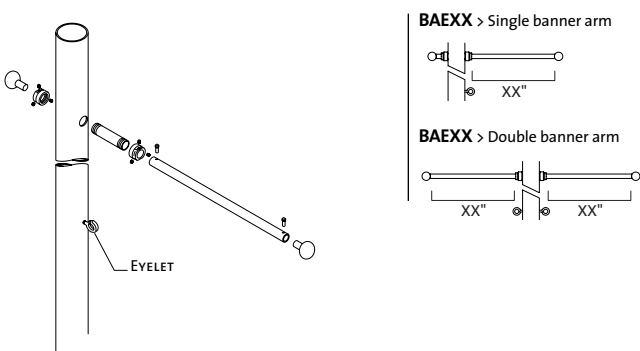
BABS(2) / BABD(2) > BREAK-AWAY BANNER ARM

> shown here on a straight round pole



BAE > BANNER ARM WITH EYELET

> shown here on a straight round pole



Specifications:

Lumec's Banner Arms **BAS / BAD** are designed to fit on a round, fluted, square and multi-sided pole, using a central tubing inserted through two opposite 1 3/8" (35 mm) holes.

The aluminum banner arm [1 1/16" diameter (27 mm)] easily slip-fits into the central tubing and it is secured with the attachment by stainless steel hardware. Completing the installation are two end-of-arm decorative casting.


Consult factory for all banner arm heights and orientations.

Optional Lily Flower end-of-arm casting available (LF option).

Specify width of banner(s) as the xx dimension in the ordering number.

Order Banner in 1" (25 mm) increments only (ex: BAS11)

> Lumec strongly recommends that the banner arm should be at least 8 feet from the ground.

Decorative end-of-arm option 
LF

Specifications:

Lumec's Banner Arms **BAS(2) / BAD(2)** are designed to fit on a round, fluted, square and multi-sided pole, using a central tubing inserted through two opposite 1 3/8" (35 mm) holes.

The aluminum banner arm [1 1/16" diameter (27 mm)] easily slip-fits into the central tubing and it is secured with the attachment by stainless steel hardware. Completing the installation are two end-of-arm decorative casting.


Consult factory for all banner arm heights and orientations.

Optional Lily Flower end-of-arm casting available (LF option).

Specify width of banner(s) as the xx dimension in the ordering number.

Order Banner in 1" (25 mm) increments only (ex: BAS(2)11)

> Lumec strongly recommends that the banner arm should be at least 8 feet from the ground.

Decorative end-of-arm option 
LF

Specifications:

Lumec's Break-Away Banner Arms **BABS(2) / BABD(2)** are designed to fit on a round, fluted, square and multi-sided poles, using a central tubing inserted through two opposite 1 3/8" (35 mm) holes with a cable-secured break-away lower arm.

The aluminum banner arm [1 1/16" diameter (27 mm)] easily slip-fits into the central tubing and it is secured with the attachment by stainless steel hardware. Completing the installation are two end-of-arm decorative casting.


Consult factory for all banner arm heights and orientations.

Optional Lily Flower end-of-arm casting available (LF option).

Specify width of banner(s) as the xx dimension in the ordering number.

Order Banner in 1" (25 mm) increments only (ex: BABS(2)11)

> Lumec strongly recommends that the banner arm should be at least 8 feet from the ground.

Decorative end-of-arm option 
LF

Specifications:

Lumec's Banner Arms **BAE** is designed to fits on a round, fluted, square and multi-sided poles, using a banner arm fitter inserted through two opposite 1 3/8" (35 mm) holes completed with eyelet below banner arm installed on pole.

The aluminum banner arm [1 1/16" diameter (27 mm)] easily slip-fits into the central tubing and it is secured with the attachment by stainless steel hardware. Completing the installation are two end-of-arm decorative casting.


Consult factory for all banner arm heights and orientations.

Optional Lily Flower end-of-arm casting available (LF option).

Specify width of banner(s) as the xx dimension in the ordering number.

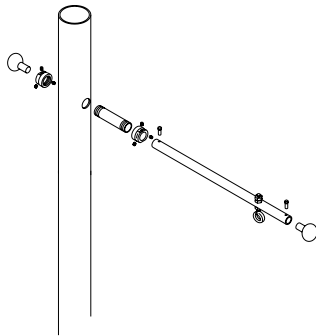
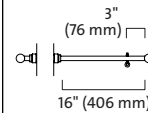
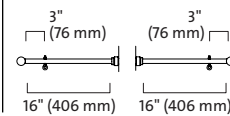
Order Banner in 1" (25 mm) increments only (ex: BAS11)

> Lumec strongly recommends that the banner arm should be at least 8 feet from the ground.

Decorative end-of-arm option 
LF

PSS / PSD > PLANT SUPPORT

> shown here on a straight round pole

**PSS > Single plant support****PSD > Double plant support**> **Maximum weight of 100 lbs (45.4 kg) on each side.****Specifications:**

Lumec's plant support arm **PS** are designed to fit round, fluted, square and multi-sided poles, using a central tubing inserted through two opposite 1 3/8" (35 mm) holes.


The steel arm [1 1/16" diameter (27 mm)] can then easily slip-fit into the plant support fitter, where it is secured by stainless steel hardware.

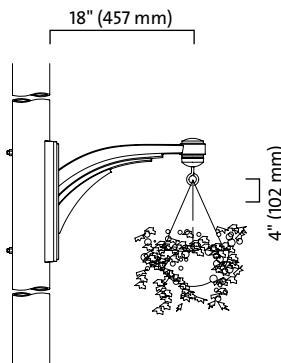
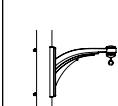
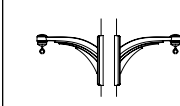
Completing the installation are two end-of-arm decorative casting.

Consult factory for all plant support heights and orientations.

> *Plant supports should hold plants at least 8 feet above the ground.*

> *Flower pot supplied by others.*

Decorative end-of-arm option 
LF

PSACS / PSACD > PLANT SUPPORTEPA: 0.6 sq.ft. **Weight:** 8.0 lbs. (3.6 kg)**PSACS > Single plant support****PSACD > Double plant support**> **Maximum weight of 100 lbs (45.4 kg) on each side.****Specifications:**

Lumec's plant support arm **PSAC** features a cast-aluminum curved arm mechanically assembled to a cast-aluminum plate.

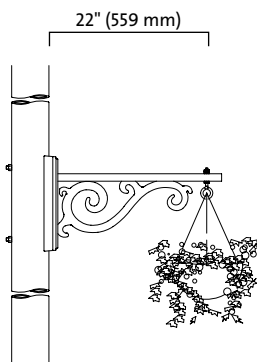
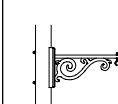
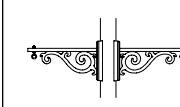
The plate is mechanically assembled with two bolts going through the pole.

Completing the installation is an eyelet to support the flower pot.

Consult factory for all plant support heights and orientations.

> *Plant supports should hold plants at least 8 feet above the ground.*

> *Flower pot supplied by others.*

PSCRAS / PSCRAD > PLANT SUPPORTEPA: 0.5 sq.ft. **Weight:** 8.0 lbs. (3.6 kg)**PSCRAS > Single plant support****PSCRAD > Double plant support**> **Maximum weight of 100 lbs (45.4 kg) on each side.****Specifications:**

Lumec's plant support arm **PSCRA** features a seamless 1" x 2" (25 x 51 mm) rectangular extruded aluminum tube and cast decorative scroll, welded to a cast-aluminum plate.

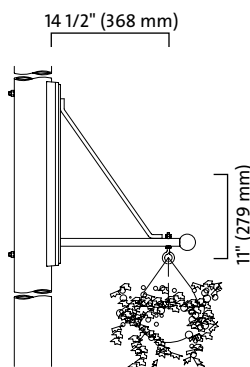
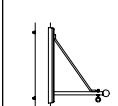
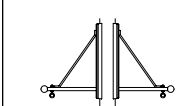
The plate is mechanically assembled with two bolts going through the pole.

Completing the installation is an eyelet to support the flower pot.

Consult factory for all plant support heights and orientations.

> *Plant supports should hold plants at least 8 feet above the ground.*

> *Flower pot supplied by others.*

PSPCS / PSPCD > PLANT SUPPORTEPA: 0.4 sq.ft. **Weight:** 7.5 lbs. (3.4 kg)**PSPCS > Single plant support****PSPCD > Double plant support**> **Maximum weight of 100 lbs (45.4 kg) on each side.****Specifications:**

Lumec's plant support arm **PSPC** features a 1 1/16" (27 mm) round extruded-aluminum arm welded to the cast-aluminum plate.

The plant support arm includes an extruded-aluminum decorative rod welded to the cast-aluminum plate and to the arm.

Completing the installation is an eyelet to support the flower pot.

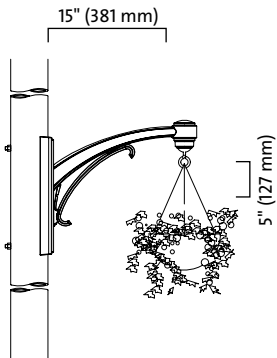
Consult factory for all plant support heights and orientations.

> *Plant supports should hold plants at least 8 feet above the ground.*

> *Flower pot supplied by others.*

PSYRS / PSYRD > PLANT SUPPORT

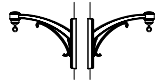
EPA: 0.5 sq.ft. Weight: 7.6 lbs. (3.5 kg)



PSYRS > Single plant support



PSYRD > Double plant support



> Maximum weight of 100 lbs (45.4 kg) on each side.

Specifications:

Lumec's plant support arm PSYR feature a cast-aluminum curved arm and a decorative element welded to a cast-aluminum plate.

Completing the installation is an eyelet to support the flower pot.

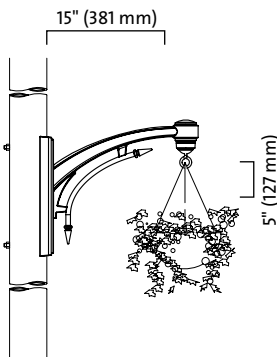
Consult factory for all plant support heights and orientations.

> Plant supports should hold plants at least 8 feet above the ground.

> Flower pot supplied by others.

PSARS / PSARD > PLANT SUPPORT

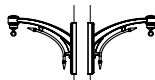
EPA: 0.5 sq.ft. Weight: 8.0 lbs. (3.6 kg)



PSARS > Single plant support



PSARD > Double plant support



> Maximum weight of 100 lbs (45.4 kg) on each side.

Specifications:

Lumec's plant support arm PSAR features a cast-aluminum curved arm and a decorative element welded to a cast-aluminum plate.

Completing the installation is an eyelet to support the flower pot.

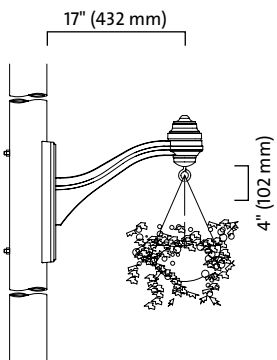
Consult factory for all plant support heights and orientations.

> Plant supports should hold plants at least 8 feet above the ground.

> Flower pot supplied by others.

PSCRFs / PSCRFD > PLANT SUPPORT

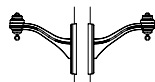
EPA: 0.6 sq.ft. Weight: 11 lbs. (5.0 kg)



PSCRFs > Single plant support



PSCRFD > Double plant support



> Maximum weight of 100 lbs (45.4 kg) on each side.

Specifications:

Lumec's plant support arm PSCRF features a cast-aluminum curved arm mechanically assembled to a cast-aluminum plate.

Completing the installation is an eyelet to support the flower pot.

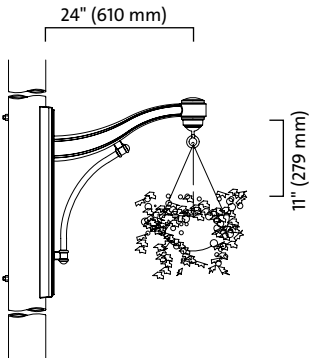
Consult factory for all plant support heights and orientations.

> Plant supports should hold plants at least 8 feet above the ground.

> Flower pot supplied by others.

PSVCS / PSVCD > PLANT SUPPORT

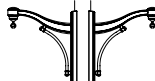
EPA: 0.6 sq.ft. Weight: 9.6 lbs. (4.4 kg)



PSVCS > Single plant support



PSVCD > Double plant support



> Maximum weight of 100 lbs (45.4 kg) on each side.

Specifications:

Lumec's plant support arm PSVC features a cast-aluminum curved arm and a cast-aluminum decorative scroll welded to a cast-aluminum plate.

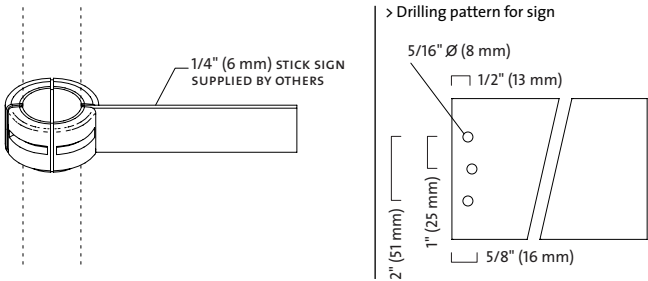
Completing the installation is an eyelet to support the flower pot.

Consult factory for all plant support heights and orientations.

> Plant supports should hold plants at least 8 feet above the ground.

> Flower pot supplied by others.

SA1 > SIGN ADAPTOR



Specifications:

Lumec's mechanically assembled Sign Adaptors **SA1** are designed to fit 4" round (102 mm) or 5 9/16" (141 mm) poles, using cast-aluminum quarter-circle pieces that are mechanically assembled on site.

Aluminum signs 1/4"(6 mm), supplied by others, are mechanically assembled between the cast-aluminum quarter-circles.

> In order to determine the proper pole for local wind conditions, it is necessary to:

- 1. Calculate the luminaire or cluster EPA (Effective Projected Area) using the formula outlined below.
- 2. Assess the wind speed and gust factor according to local conditions.
- 3. Select a pole whose luminaire or cluster EPA is either lower than or equal to the pole's EPA rating.

> To calculate the luminaire or cluster EPA:

You will find EPA's for single-head units in their respective literature.

For clusters, however, it is necessary to :

- 1. Take the luminaire EPA
- 2. Add the bracket arm EPA
- 3. Locate, on the matrix, the multiplying factor corresponding to the configuration, and finally
- 4. Use the following formula to calculate the cluster EPA.

For instance, in calculating the EPA for the following luminaire : 100-HP5-LLPLC-PPC-C-RR3-CD4-?PR4?-12-GN-TX

$$\left(\begin{matrix} \text{Luminaire} \\ \text{EPA} \end{matrix} \times \begin{matrix} \text{Luminaire} \\ \text{Multiplying} \\ \text{Factor} \end{matrix} \right) + \left(\begin{matrix} \text{Bracket} \\ \text{EPA} \end{matrix} \times \begin{matrix} \text{Bracket} \\ \text{Multiplying} \\ \text{Factor} \end{matrix} \right) = \text{Cluster EPA}$$

> Example:

$$\left(\begin{matrix} 2.70 \\ \text{Luminaire} \\ \text{EPA} \end{matrix} \times \begin{matrix} 3.67 \\ \text{Luminaire} \\ \text{Mult. Fac} \end{matrix} \right) + \left(\begin{matrix} 1.06 \\ \text{Bracket} \\ \text{EPA} \end{matrix} \times \begin{matrix} 3.33 \\ \text{Bracket} \\ \text{Mult. Fac} \end{matrix} \right) = \begin{matrix} 13.44 \\ \text{Cluster} \\ \text{EPA} \end{matrix}$$

It is necessary to determine the wind speed for the area where the luminaire is to be installed. For the purpose of this exercise, we will consider a 70 mph zone.

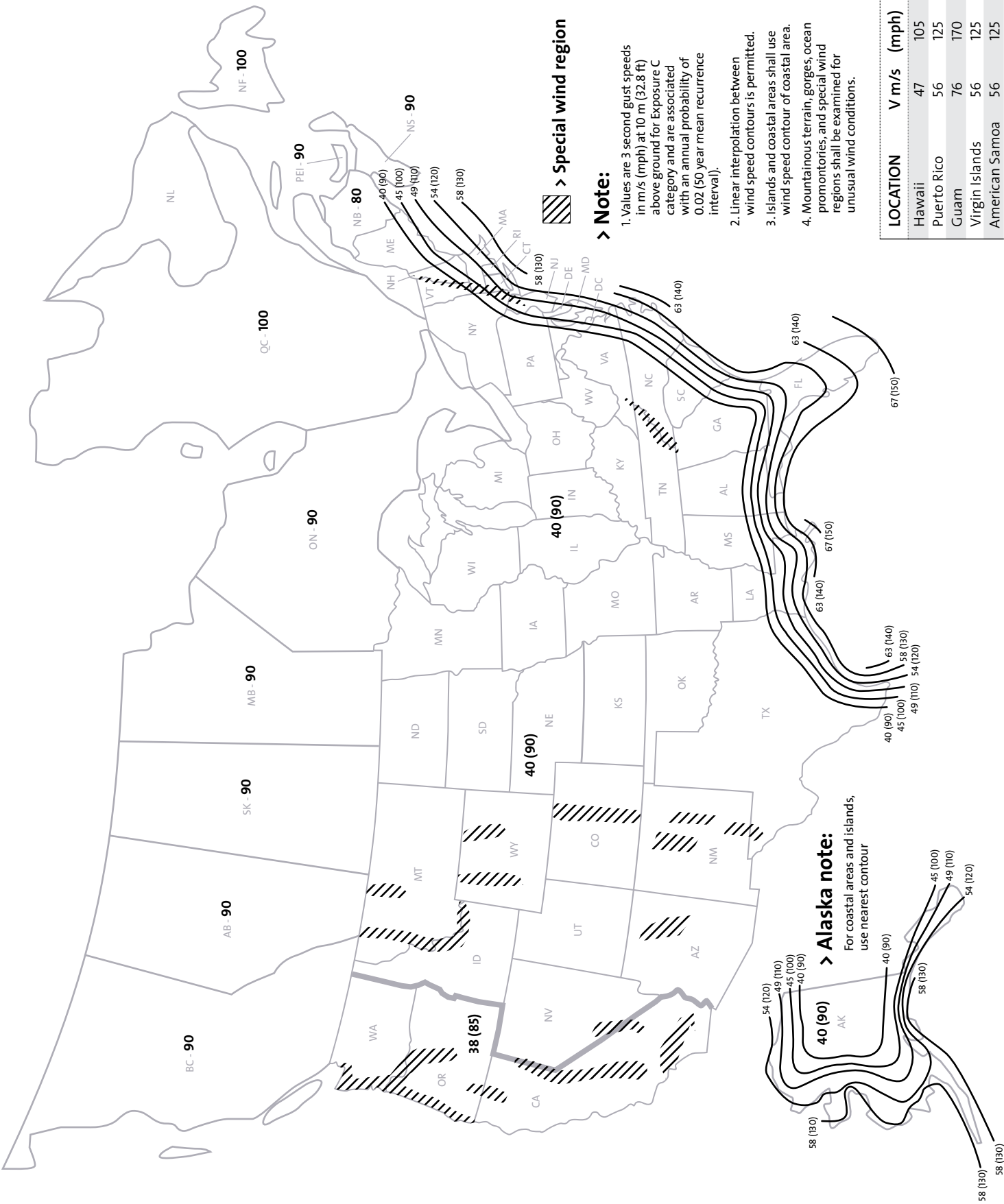
> Pole Selection:

In order to determine which 12' (3.6 m) round pole would be suitable for this luminaire, the following procedure is recommended:

- First, identify the 12' (3.6 m) round pole with an acceptable EPA.
- In this instance, it would be an **APR4W-12**
- The cluster has an EPA of 13.44 sq. ft. while the EPA rating of the **APR4W-12** pole is 15.3 sq. ft.

> Luminaire and bracket multiplying factors for all configurations:

CONFIGURATION	LUMINAIRE	CONSOLE
1 >	1.00	-
1A >	1.00	1.00
2 >	2.00	2.00
2A >	2.00	1.40
3 >	3.00	2.40
3A >	3.00	2.00
3B >	3.00	2.67
4 >	3.67	3.33
4A >	3.67	2.67
4B >	3.67	2.40
5 >	4.67	3.33



Note: Philips Lumec reserves the right to modify the above details to reflect changes in the cost of materials and/or production and/or design without prior notice.



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/ Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org



The choice to not print paper brochures anymore but to make them available on-line is an example of the positive environmental actions that Philips Lumec has decided to undertake. This not only considerably reduces our paper consumption but also guarantees the exactitude of the information our clients receive.