#### **DESCRIPTION**

Recessed 3.5" aperture directional luminaire with slot cut shielding reflector utilizing a low voltage MR16 tungsten-halogen lamp. Suitable for 2x10 residential or commercial constructions, airtight and can be used in direct contact with insulation. Housing platform + optical element support various lamp beams providing desired optical distribution with excellent light control and low aperture brightness. Interchangeable optical elements provide design flexibility; luminaire can be changed from downlight, to accent to wall wash.

Catalog #	Туре
Project	
Comments	Date
Prepared By	

## SPECIFICATION FEATURES

#### Frame

Galvanized steel plaster frame with integral bar hanger receivers. Setscrews provide positive horizontal locking. Integral gun sights facilitate the use of guide strings or laser lines for accurate positioning. Shipped with an overspray protector installed.

#### Housing

Double wall housing provides for effective thermal management. Internal housing is painted matte black for a visually dark interior.

## **Bar Hangers**

Bar hangers adjust from 8-1/2" to 24" wide; pass thru feature allows shortening without removal. Captive nail penetrates standard and engineered lumber. Mounting flange levels platform with ceiling. Integral clip attached directly to tee-bar.

#### Gaskets

Closed cell gaskets achieve restrictive airflow requirements without additional caulking.

## **Adjustment Mechanism**

Hot aiming rotates 365°, tilts 45° and locks in position. Angle markings assist in repeatable settings.

Translating center beam optics aligns axis of primary reflector with aperture from nadir to 45°. Shipped set at nadir. Removable thru aperture for service.

### Lamp Capsule

Retained in the adjustment mechanism with spring loaded ball catches, aim and focus is not disturbed during lamp replacement. Ceramic GX5.3 lamp holder mounts a die cast aluminum heat sink to dissipate heat and provide maximum lamp life. Connects to the transformer with electrical quick connect. Accepts 2 lenses, filters, or an optional lamp snoot.

### **Lower Reflector**

Spun 0.04" thick aluminum slot cut parabolic contour provides 50° room side cutoff and is available in a wide range of specular and semi-specular Alzak® finishes. Available with self-flange or metal trim ring. Light trap eliminates spill light at edge of trim ring and reflector. Metal trim ring can be removed for painting and can be installed flush mount with optional flush mount collar accessory. Keyed to adjustment mechanism preventing directional trims being installed incorrectly.

## Trim Retention

Retained with two torsion springs holding the flange tightly to the finished ceiling surface and accommodates ceiling thickness from 1/2" - 1" thick. Optional PLE3 plaster lip extender accommodates up to 2" thick ceilings.

#### **Junction Box**

(6) 1/2" trade size pry outs positioned to allow straight conduit runs. 18 in3 internal volume supports up to (10) #12 or (14) #14 AWG 90° C conductors for pass thru or switch legs.

#### Transformer

Integral magnetic step down transformer, 120V 50/60Hz input, 12V, 50VA nominal output is greater than 90% efficient. Toroidal wound core is epoxy encapsulated providing extremely low noise and reliable operation.

#### Compliance

Type IC thermally protected, suitable for direct contact with insulation and cULus listed for damp locations. Restrictive airflow per ASTM-E283. Contains no mercury or lead and RoHS compliant.

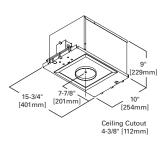


# P3MR E3SLOT

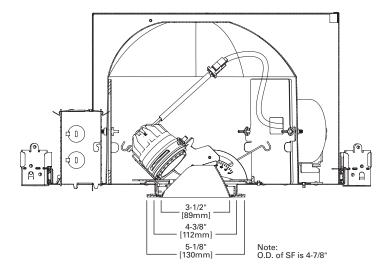
**Directional Slot Cut** 

3.5" Aperture

50W MR16 Tungsten-Halogen



Energy Data						
Lamp Wattage	Input Watts	Input Current				
20	23	0.19				
35	41	0.34				
37	42	0.35				
42	47	0.39				
50	57	0.48				





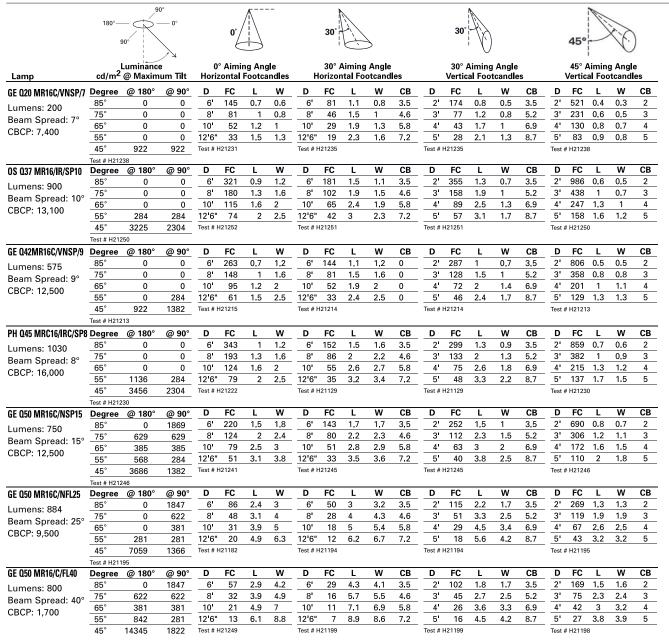
To learn more visit: www.soraa.com/wws/fixtures for recommended lamp ratings.





Housing	Optical Element	Finishes	Options	Accessories
P3MR=3.5" aperture IC, AT low voltage 50W MR16 housing platform w/integral 120V transformer P3MRDR20=3.5" aperture IC, AT low voltage 20W MR16 housing platform w/integral 120V transformer P3MRDR35=3.5" aperture IC, AT low voltage 35W MR16 housing platform w/integral 120V transformer P3MRDR37=3.5" aperture IC, AT low voltage 37W MR16 housing platform w/integral 120V transformer P3MRDR37=3.5" aperture IC, AT low voltage 37W MR16 housing platform w/integral 120V transformer P3MREMOTE=3.5" aperture IC, AT low voltage MR16 housing platform for remote transformer	E3SLOT=3.5" aperture open 1.8" slotted reflector	Alzak Finishes C=Specular Clear H=Semi-Specular Clear G=Gold WMH=Warm Haze WH=Wheat WHH=Wheat Haze GP=Graphite GPH=Graphite Haze K=Cognac KH=Cognac Haze CC=Chocolate CCH=Chocolate Haze B=Black Painted Finishes MW=Matte white W=Gloss white	(Blank)=Metal trim ring, matte white SF=Self-flanged SFWF=Self-flanged, matte white flange	FMC3=Flush mount collar accessory PLE3=Plaster lip extender for up to 2" thick ceilings LSA16=Matte black lamp snoot accessory, for use with die cast lamp capsule LHEX=2-inch diameter matte black hex cell louver provides 45° cutoff  LLNR=Skytek linear spread lens LSF=Solite lens LSPD=Crystal #73 prismatic spread lens LUV=Ultraviolet reducing lens L2TK=2,700*K dichroic filter LLPINK=Light Pink LLSTRAW=Light Straw LDAY=Daylight Filter LPLAV=Pale Lavender LSPINK=Surprise Pink

#### **PHOTOMETRICS**







P3MR E3SLOT



#### **Notes and Definitions:**

Luminance: To convert cd/m<sup>2</sup> to footlamberts, multiply by 0.2919

- Beam spread is to 50% center beam candlepower (CBCP.)
- Data shown is based on bare lamp photometrics.

D=Distance to floor or wall.

FC=Footcandles on floor or wall at center beam aiming location.

L =Effective Visual Beam length in feet (50% of maximum footcandle level.) W=Effective Visual Beam width in feet (50% of maximum footcandle level.) CB=Distance across or down to center beam location.

The "real world photometrics" shown here are from off the shelf lamps in fixtures using a clear lens and operated at 12.0 volts. Please see page 64 & 65 of the IRIS catalog for a further discussion and appropriate correction mutipliers.\*

