

**DESCRIPTION**

Recessed 3" aperture super adjustable luminaire utilizing a low voltage MR16 tungsten-halogen lamp provides tilt from 15° to 75°. 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.

<b>Catalog #</b>		<b>Type</b>
<b>Project</b>		
<b>Comments</b>		<b>Date</b>
<b>Prepared By</b>		

**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.

**Optical Element**

Die cast body with integral black baffle controls aperture brightness. Lamp beam integrity is maintained by reflecting from a color neutral. Hot aiming rotates 365°, tilts 15° - 75° and locks in position.

Integral ceramic GX5.3 lamp holder mounts to an aluminum heat sink to dissipate heat. Connects to the transformer with electrical quick connect. Accepts 2 lenses or filters, ships with a soft focus lens for smooth beam patterns. A hex cell louver is also provided for use with extreme aiming angles on 12/12 pitch ceilings for optimal brightness control.

Ships with the super adjustable mounting collar that replaces the standard adjustment mechanism thru the aperture.

**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 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**

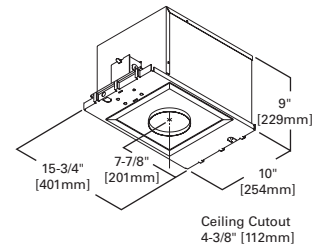
Type IC thermally protected, suitable for direct contact with insulation and cULus listed for damp locations. Restrictive airflow per ASTM-E283. Contains no mercury or lead and RoHS compliant.



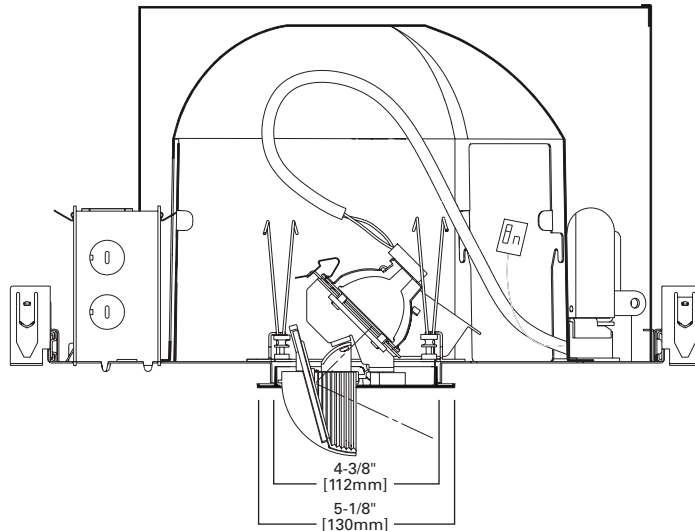
**P3MR  
E3SA**

**Super Adjustable  
3" 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



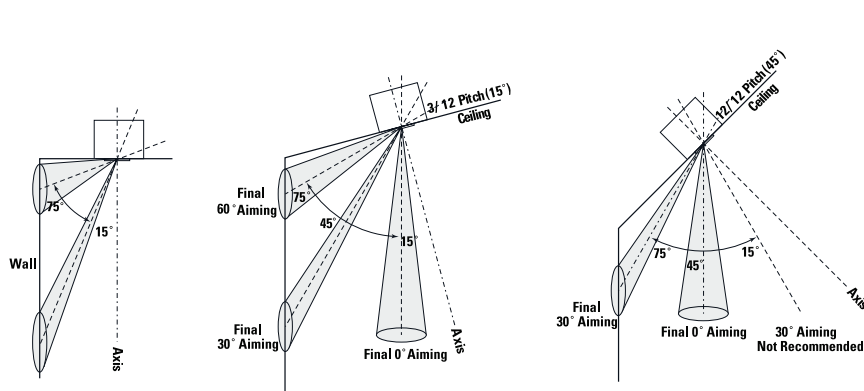
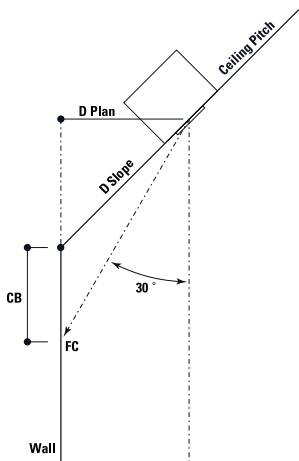
To learn more visit:  
[www.soraa.com/wws/fixtures](http://www.soraa.com/wws/fixtures)  
for recommended lamp ratings.

ORDERING INFORMATION

Housing	Optical Element	Flange Style and Finish Options	Accessories
<p><b>P3MR</b>=3.5" aperture IC, AT low voltage 50W MR16 housing platform w/integral 120V transformer</p> <p><b>P3MRDR20</b>=3.5" aperture IC, AT low voltage 20W MR16 housing platform w/integral 120V transformer</p> <p><b>P3MRDR35</b>=3.5" aperture IC, AT low voltage 35W MR16 housing platform w/integral 120V transformer</p> <p><b>P3MRDR37</b>=3.5" aperture IC, AT low voltage 37W MR16 housing platform w/integral 120V transformer</p> <p><b>P3MRREMOTE</b>=3.5" aperture IC, AT low voltage MR16 housing platform for remote transformer</p>	<p><b>E3SA</b>=3" super adjustable</p>	<p><b>(Blank)</b>=Matte white body and flange, black baffle</p> <p><b>B</b>=Black body and flange, black baffle</p> <p><b>Raw</b>=Raw body and flange, black baffle</p>	<p><b>FMC3</b>=Flush mount collar accessory</p> <p><b>PLE3</b>=Plaster lip extender for up to 2" thick ceilings</p> <p><b>LHEX</b>=2-inch diameter matte black hex cell louver provides 45° cutoff</p> <p><b>LLNR</b>=Skytek linear spread lens</p> <p><b>LSF</b>=Solite lens</p> <p><b>LSPD</b>=Crystal #73 prismatic spread lens</p> <p><b>LUV</b>=Ultraviolet reducing lens</p> <p><b>L27K</b>=2,700°K dichroic filter</p> <p><b>LLPINK</b>=Light Pink</p> <p><b>LLSTRAW</b>=Light Straw</p> <p><b>LDAY</b>=Daylight Filter</p> <p><b>LPLAV</b>=Pale Lavender</p> <p><b>LSPINK</b>=Surprise Pink</p>

PHOTOMETRICS

Pitch:	12/12	12/12	12/12										
Fixture:	P3MR-E3SA	P3MR-E3SA	P3MR-E3SA										
Tilt of Element:	75°	75°	75°										
Lamp:	OS 37MR16/R/SP10	GE Q42MR16/VNSP	OS 50MR16/SP/10										
Beam Spread:	10° x 10°	9° x 9°	10° x 10°										
Published CBCP:	13,100	12,500	15,700										
<b>D Plan</b>	<b>D Slope</b>	<b>FC</b>	<b>L</b>	<b>W</b>	<b>CB</b>	<b>FC</b>	<b>L</b>	<b>W</b>	<b>CB</b>	<b>FC</b>	<b>L</b>	<b>W</b>	<b>CB</b>
2'0"	2'9"	179	1'9"	1'0"	1'6"	129	1'3"	0.9	1'6"	199	1'6"	9"	1'6"
2'6"	3'6"	114	2'0"	1'3"	2'0"	83	1'6"	1'0"	2'0"	127	2'0"	1'3"	2'0"
3'0"	4'3"	79	2'6"	1'6"	2'3"	57	1'9"	1'3"	2'3"	86	2'3"	1'6"	2'3"
4'0"	5'6"	45	3'3"	1'9"	3'0"	32	2'6"	1'6"	3'0"	50	3'0"	1'9"	3'0"
Pitch:	9/12	9/12	9/12										
Fixture:	P3MR-E3SA	P3MR-E3SA	P3MR-E3SA										
Tilt of Element:	37°	37°	37°										
Lamp:	OS 37MR16/R/SP10	GE Q42MR16/VNSP	OS 50MR16/SP/10										
Beam Spread:	10° x 10°	9° x 9°	10° x 10°										
Published CBCP:	13,100	12,500	15,700										
<b>D Plan</b>	<b>D Slope</b>	<b>FC</b>	<b>L</b>	<b>W</b>	<b>CB</b>	<b>FC</b>	<b>L</b>	<b>W</b>	<b>CB</b>	<b>FC</b>	<b>L</b>	<b>W</b>	<b>CB</b>
2'0"	2'3"	193	1'9"	1'0"	2'	152	1'3"	9"	2'	240	1'6"	1'0"	2'
2'6"	3'0"	123	2'0"	1'3"	2'6"	97	1'6"	1'0"	2'6"	154	2'0"	1'3"	2'6"
3'0"	3'9"	86	2'6"	1'6"	3'0"	68	2'0"	1'3"	3'0"	107	2'3"	1'6"	3'0"
4'0"	5'0"	48	3'3"	1'9"	4'0"	38	2'6"	1'6"	4'0"	60	3'0"	2'0"	4'0"
Pitch:	6/12	6/12	6/12										
Fixture:	P3MR-E3SA	P3MR-E3SA	P3MR-E3SA										
Tilt of Element:	27°	27°	27°										
Lamp:	OS 37MR16/R/SP10	GE Q42MR16/VNSP	OS 50MR16/SP/10										
Beam Spread:	10° x 10°	9° x 9°	10° x 10°										
Published CBCP:	13,100	12,500	15,700										
<b>D Plan</b>	<b>D Slope</b>	<b>FC</b>	<b>L</b>	<b>W</b>	<b>CB</b>	<b>FC</b>	<b>L</b>	<b>W</b>	<b>CB</b>	<b>FC</b>	<b>L</b>	<b>W</b>	<b>CB</b>
2'0"	2'3"	227	1'6"	9"	2'6"	147	1'3"	9"	2'6"	284	1'5"	1'0"	2'6"
2'6"	2'9"	145	2'0"	1'0"	3'0"	94	1'6"	1'0"	3'0"	182	2'0"	1'3"	3'0"
3'0"	3'4"	101	2'3"	1'3"	3'9"	66	2'0"	1'3"	3'9"	126	2'3"	1'6"	3'9"
4'0"	4'5"	57	3'0"	1'9"	5'0"	37	2'6"	1'6"	5'0"	71	3'0"	2'0"	5'0"



## Notes &amp; Definitions:

The above diagrams represent the aiming of the unit for an effective 30° tilt angle from nadir in ceilings of different pitches; e.g. 75° - 12/12 pitch (or 45°) = 30°.

For optimal performance, it is recommended that fixture is used for illuminating vertical surfaces.

The E3SA "Super Adjustable" element is capable of tilting the lamp's center beam from 15° to 75°; 361° in rotation. The spread of the lamp's beam will fill higher than 75° at maximum tilt.

The E3SA includes an LHEX louver for maximum control of glare if used where mirror is in view.

D Plan = Distance in plan view from wall.

D Slope = Distance as actually measured along slope of ceiling from corner.

FC = Maximum footcandles on wall within effective visual beam. (EVB = 50% of max. FC)

L = Length of effective visual beam

W = Width of effective visual beam

CB = Distance down wall from corner to center of beam location.

**IRiS believes that bare lamp data photometrics vastly overstate the performance of low voltage adjustable accent fixtures.**

**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 multipliers.**

Discontinued  
25-01-2024