#### DESCRIPTION

Recessed lens directional luminaire with 4 inch square aperture utilizing a low voltage MR16 tungsten-halogen lamp. Modular platform can be reconfigured from below the ceiling to accept a broad range of lamp modules and optical elements. Platform is suitable for direct contact with insulation and 2x8 residential construction. Platform + module + element combination supports various lamp beam spreads for desired optical distribution with excellent light control and low aperture brightness.

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## SPECIFICATION FEATURES

#### Frame

Galvanized steel plaster frame with integral bar hanger receivers. Setscrews provide positive horizontal locking.

#### Collar

Matte black steel collar adjusts vertically for 1/2" - 1" thick ceilings and can be rotated +/- 7.5° thru the aperture. Integral gun sights facilitate the use of guide strings or laser lines. Shipped with a paint overspray protector installed in the collar.

## **Lamp Module**

Installed or removed thru the aperture or from the top at 0°, 90°, 180° and 270° positions. Hot aiming rotates 365°, tilts 45° and locks in position using #2 Philips screwdriver. Translating center beam optics aligns axis of lamp with aperture as lamp translates from nadar thru 45°.

4-1/2"

(114mm) 5-3/4

## Housing

Double wall aluminum housing painted matte black for a visually dark interior. Removable hinged top allows for top access. All fasteners are captive.

#### Gaskets

Closed cell gaskets achieve restrictive airflow requirements without additional caulking.

#### **Optical Element**

Mousetrap type springs pull flange tight to ceiling. Light trap eliminates spill light at edge of flange and reflector. Available in selfflanged or metal trim ring versions.

## **Bar Hangers**

Captive preinstalled bar hangers adjusts 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 attaches directly to t-bar.

#### **Lower Reflector**

Aluminum angle cut parabolic shielding prismatoid with clear lens is available in a wide range of semi specular Alzak(tm) finishes. Corrugated Baffle: An optional embossed pattern that extends through the flange adding a subtle design element and reduces aperture brightness.

## **Junction Box**

(7) 1/2" trade size pry outs, (3) integral clamps for non-metallic cable. Rated for (4) #12 thru branch circuits. Wago® type push wire connectors for field connections.

#### **Thermal Protector**

Self-resetting thermal protector protects against improper lamping.

#### **Transformer**

Integral dual output toroidal magnetic transformer, 120V 50/60Hz input, 12V nominal 75VA maximum output. Separate output for circuits controlled by dimmers compensates for losses in dimmers, improves color temperature and lumen output.

## Lamp Capsule

Ceramic GX5.3 lamp holder mounts to an aluminum heat sink to dissipate heat. Connects to the transformer with electrical quick connects. Accepts 2 lenses or filters.

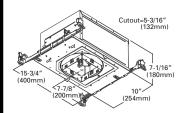
## **Code Compliance**

Thermally protected, IP labeled, cULus listed for wet locations and ASTM-E283 AIRTITE(tm). Suitable for direct contact with insulation.



# P408ICAT **MA4MR** E4AASR **E4AASRCB** 50W MR16 Tungsten-Halogen

4 Inch Square Lens Directional



ENERGY DATA		
Lamp Wattage	Input Power	Input Current
(Nominal)	(Watts)	(Amps)
20	21	0.17
35	37	.031
37	39	0.32
42	44	0.37
50	53	0.44

ORDERING INFORMATION: Complete unit consists of platform, lamp module and optical element.

**Optical Element** Platform Lamp Module Finish Flange Accessories P408ICAT **MA4MR** [Blank] = Metal Trim Alzak ® Finishes MA4MR = MR16 E4AASR = 4" Square P408ICAT = 4" Square EDC4x41 = Extended depth collar for H = Clear Haze Ring, Matte White Aperture IC Housing Directional Lamp Aperture Angle Cut - 1-1/2" thick ceilings Lower Shielding WMH = Warm Haze SF = Self Flanged FDC4x42 Extended depth collar for Module, 120V Input SFWF = Self Flanged, 1-1/2 - 2" thick ceilings L4X4LNR = Skytek linear spread lens Prismatoid Lens WHH = Wheat Haze KH = Cognac Haze Matte White Flange E4AASRCB = 4" Square GPH = Graphite Haze (SFWF not available L4x4SF = Solite soft focus lens Aperture Corrugated with corrugated baffle) L4x4SPD = Crystal #73 prismatic spread lens Angle Cut Lower CTH = Cobalt Haze CCH = Chocolate Haze MTR4MW = Metal trim ring, matte white Shielding Prismatoid, MTR4MB = Metal trim ring, matte black BH = Black Haze Lens Painted Finishes MTR4SN = Metal trim ring, satin nickel MTR4AC = Metal trim ring, antique copper MW = Matte White MTR4TBZ = Metal trim ring, tuscan bronze MB = Matte Black

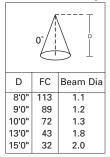
L Series - Filter Media For MR16 lamps (See Accessories specification sheet)

Trim: E4AASRH

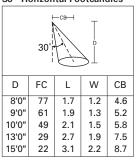
Lamp: 42MR16VNSP9



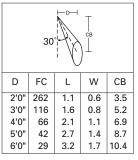
## 0° Horizontal Aiming



30° Horizontal Footcandles



30° Vertical Footcandles



45° Vertical Footcandles

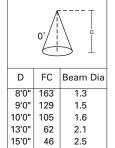
45 CB							
D	FC	L	W	СВ			
2'0"	704	0.6	0.4	2			
3'0"	313	0.9	0.6	3			
4'0"	176	1.2	0.8	4			
5'0"	113	1.5	0.9	5			
6'0"	78	1.8	1.1	6			

Trim: **E4AASRH** 

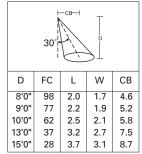
Lamp: 50WMR16 IR SP10



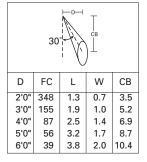
0° Horizontal Aiming



30° Horizontal Footcandles



30° Vertical Footcandles



45° Vertical Footcandles

	45° CB						
D	FC	L	W	СВ			
2'0"	861	0.7	0.5	2			
3'0"	383	1.1	0.8	3			
4'0"	215	1.4	1.1	4			
5'0"	138	1.8	1.3	5			
6'0"	96	2.1	1.6	6			