

# Modular Multiples®

## Apertures® Series

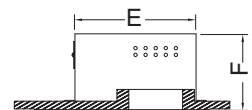
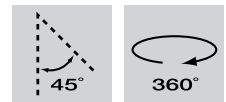
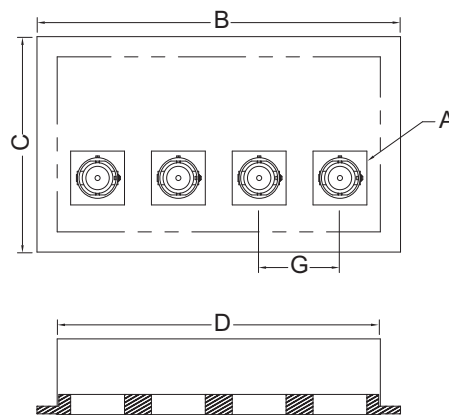
Recessed - Trimless - New / Old Work

These elegant, trimless fixtures are thoroughly flexible in application. Apertures® preformed panels are easily grouped in linear or nonlinear patterns of any length or diameter, giving architects and designers the ability to create artful, imaginative, and seamless ceiling patterns. Round, square, and rectangular apertures with patented accessories such as locking rings and shielding filter media systems are standard. Custom configurations available. Fixture dimensions vary with lamp type.

### Four Square Apertures



MAS4B9-TI-SQ: Modular Multiples® Apertures® Series, four MR16 lamps, preformed panel, transformer incorporated, square apertures.



LAMPS and DIMENSIONS	A	B	C	D	E	F	G
LED513 / MR16LED / MR16	4-1/2" x 4-1/2" 114 x 114mm	32" 813mm	16" 406mm	29" 737mm	9-5/16" 237mm	6-5/8" 168mm	7" 178mm
LED708,716,720 / AR111LED / AR111	7" x 7" 178 x 178mm	43-1/2" 1105mm	16" 406mm	40-1/2" 1028mm	11" 279mm	5-5/8" 143mm	10-1/2" 267mm
PAR38LED / PAR38	7-1/2" x 7-1/2" 191 x 191mm	46-1/4" 1175mm	18" 457mm	43-1/4" 1099mm	13" 330mm	9" 229mm	11-1/4" 286mm

# Modular Multiples®

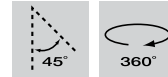
## Apertures® Series

Recessed - Trimless - New / Old Work



**Configurations:** 1, 2, 3, 4 light units standard, round, square, rectangular apertures, with a standard throat depth of 1-1/2" customs available - patented

**Housing:** Fabricated 18 gauge steel housing connected to preformed panel with tape edge on all sides that mates to 5/8" drywall or plaster



**Finishes:**

- Housing and ring sets powder coated - white or black standard
- Custom colors available
- Stainless steel / satin nickel available
- Panel provided with a white primer finish

**Electrical:**

- Internal electronic power supply(s) / transformer(s) / ballast(s) accessible through the aperture of the fixture
- Dimmable (not applicable on HID products)
- One power supply/transformer per lamp for multi-circuit wiring
- 120v and 277v available
- Listed to UL1598 standards

**Lamping:**

**Standard LED Modules**

13w LED-513-6	13w LED-513-12	13w LED-513-22
8w LED-708-6	8w LED-708-12	8w LED-708-22
16w LED-716-12	16w LED-716-22	16w LED-716-45
20w LED-720-12	20w LED-720-22	20w LED-720-45

**Direct Replacement LED or Legacy Lamps:**

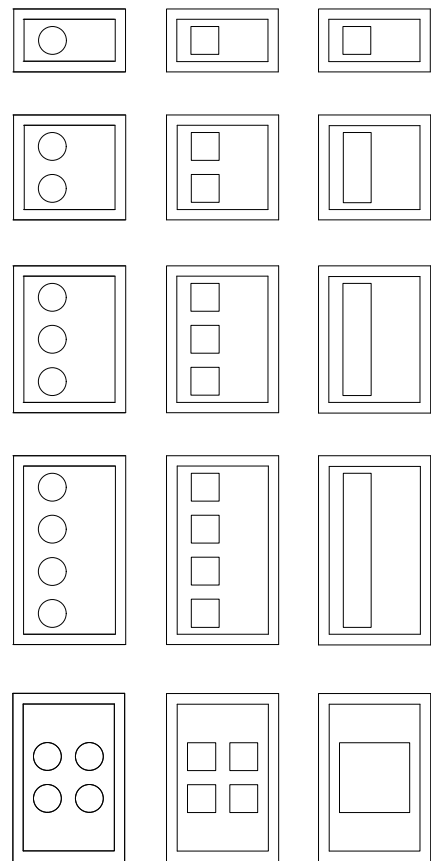
MR16LED (-BLD)	MR16 HALOGEN (-B)	MR16CMH (-BH)
AR111LED (-DLD)	AR111 HALOGEN (-D)	CDMR111 (-S)
PAR30LED (-GLD)	PAR30 (-G)	PAR30HID (-H)
PAR38LED (-JLD)	PAR38 (-J)	PAR38HID (-K)

**Mounting:**

- Housings designed to be supported from above with 3/8" (9mm) all-thread rods
- Panels designed to be secured to ceiling framing structure via flat head screws through holes provided in tape edge

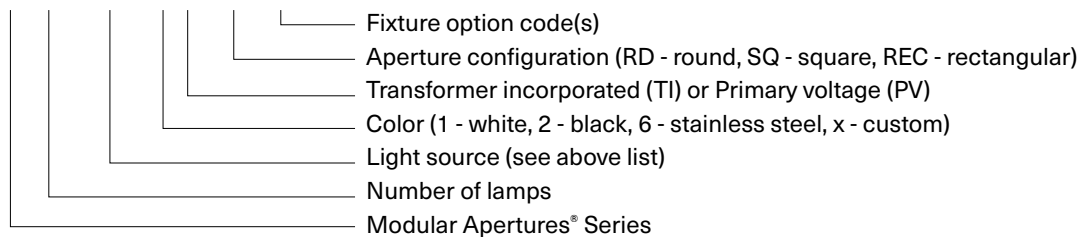
**Options:**

- Patented die-cast aluminum ring sets and locking devices
- Pull down yokes • Shielding cones / Cylinders • Filter media



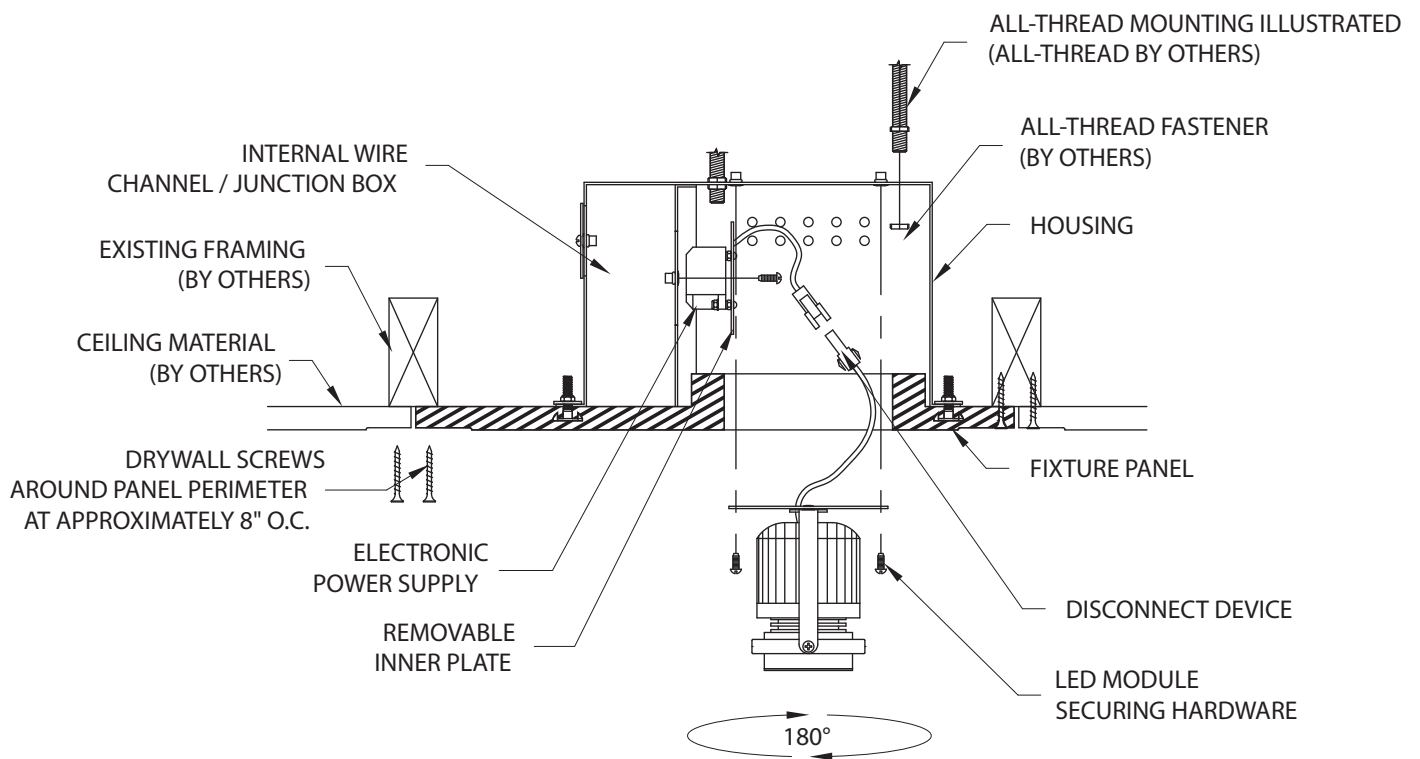
**Model # example:**

**MAS 2 LED513 x TI - RD - xx**



# Modular Multiples®

## Apertures® Series Typical Installation



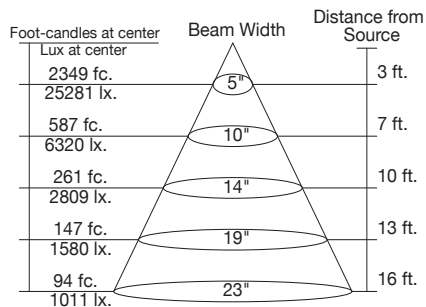
END SECTION

# Modular Multiples®

## Standard LED Modules

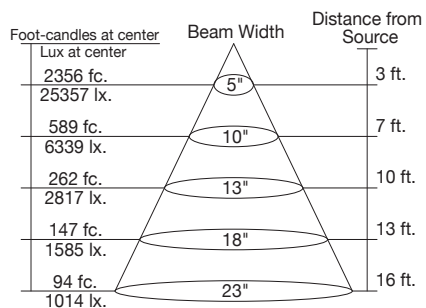
### LED-513-6

623 Lumens 13w / 6° OPTICS / 2700°K



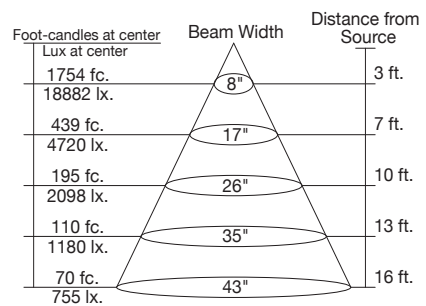
### LED-708-6

465 Lumens 8w / 6° OPTICS / 2700°K



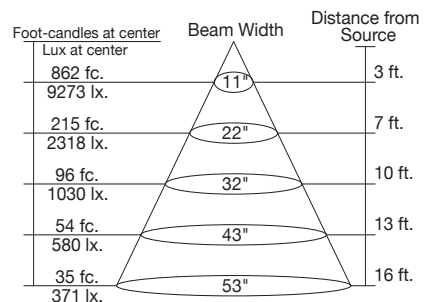
### LED-716-12

1047 Lumens 16w / 12° OPTICS / 2700°K



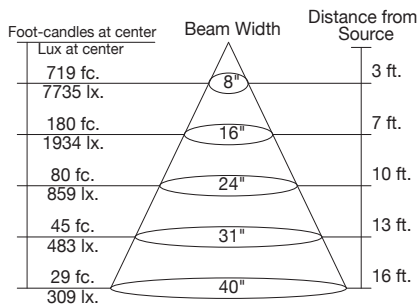
### LED-720-12

1054 Lumens 20w / 12° OPTICS / 2700°K



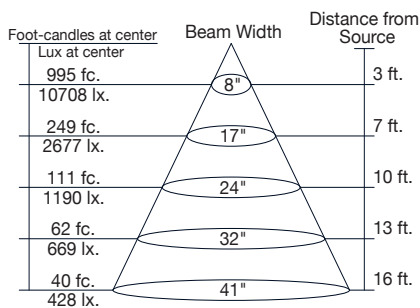
### LED-513-12

598 Lumens 13w / 12° OPTICS / 2700°K



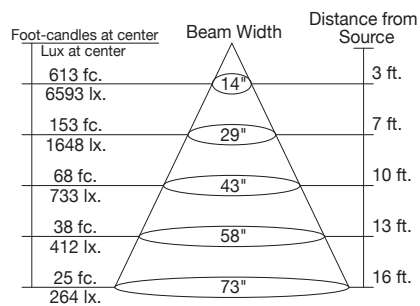
### LED-708-12

626 Lumens 8w / 12° OPTICS / 2700°K



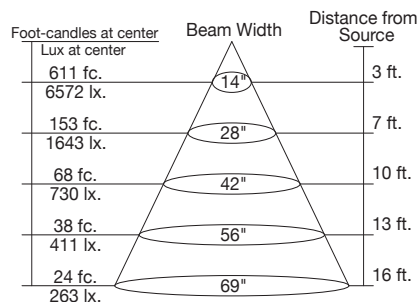
### LED-716-22

1043 Lumens 16w / 22° OPTICS / 2700°K



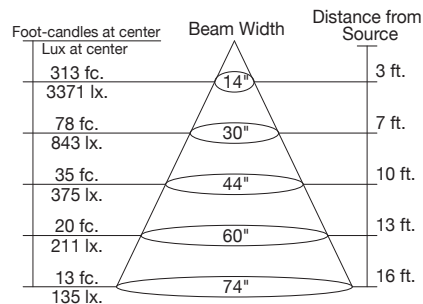
### LED-720-22

1040 Lumens 20w / 22° OPTICS / 2700°K



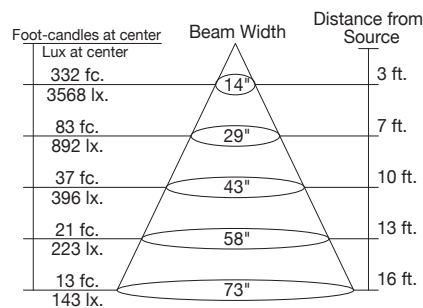
### LED-513-22

630 Lumens 13w / 22° OPTICS / 2700°K



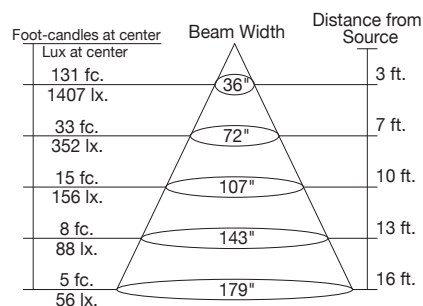
### LED-708-22

613 Lumens 8w / 22° OPTICS / 2700°K



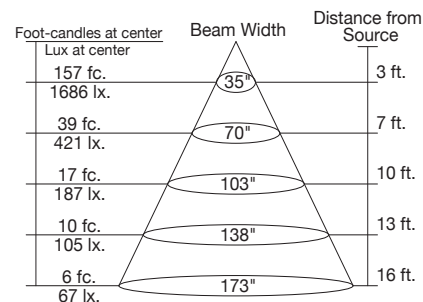
### LED-716-45

980 Lumens 16w / 45° OPTICS / 2700°K



### LED-720-45

1033 Lumens 20w / 45° OPTICS / 2700°K



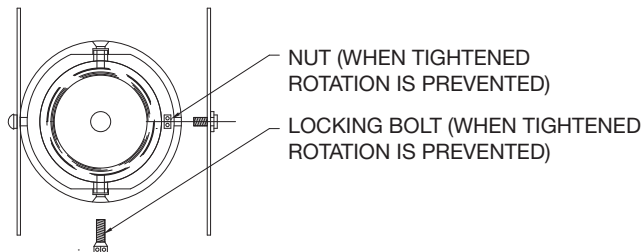
# Modular Multiples®

## Fixture Options

Modular accessories are used individually or in inventive combinations to shield brightness, reduce glare, vary beam patterns, retain direction, and alter color. Dimensions of all fixture options vary with lamp size.

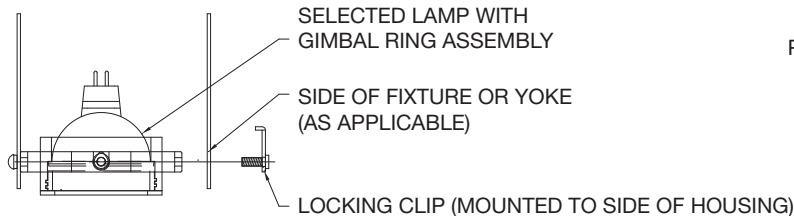
### Ring Sets and Locking Devices (PATENTED)

ADD -LM TO END OF MODEL NUMBER



NUT (WHEN TIGHTENED  
ROTATION IS PREVENTED)  
LOCKING BOLT (WHEN TIGHTENED  
ROTATION IS PREVENTED)

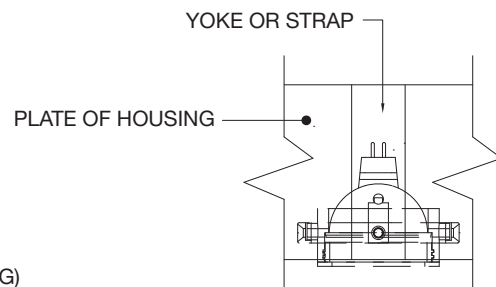
**BOTTOM VIEW**



SELECTED LAMP WITH  
GIMBAL RING ASSEMBLY  
SIDE OF FIXTURE OR YOKE  
(AS APPLICABLE)

LOCKING CLIP (MOUNTED TO SIDE OF HOUSING)

**FRONT VIEW**



YOKE OR STRAP

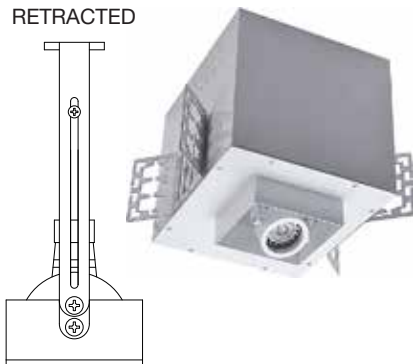
PLATE OF HOUSING

**SIDE VIEW**

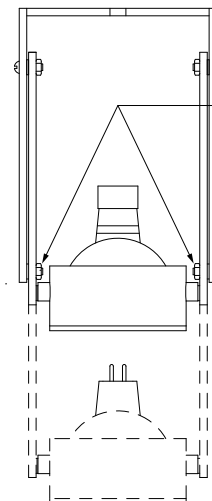
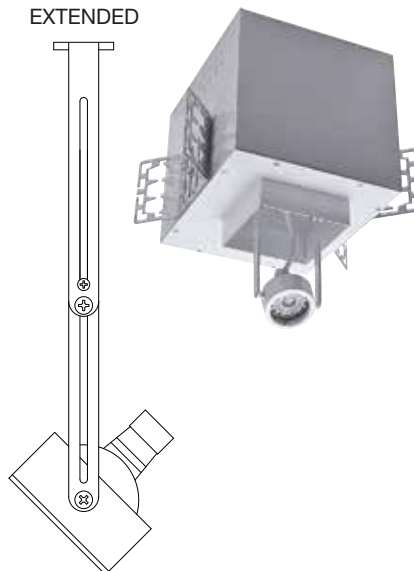
### Extendable Yokes

ADD -EY TO END OF MODEL NUMBER

**RETRACTED**



**EXTENDED**



YOKE EXTENSION  
BY HAND. TENSION  
FACTORY SET.  
TOOLS REQUIRED  
TO LOCK LENGTH  
POSITION OF YOKE.

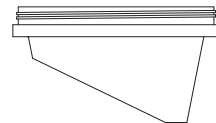
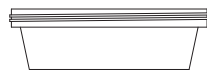
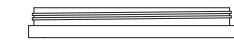
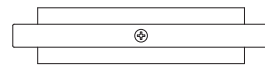
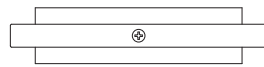
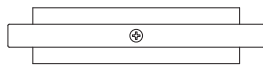
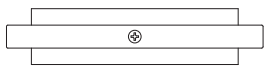
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### Shielding Options

ADD SHEILDING OPTION CODE (BELOW) TO END OF MODEL NUMBER



FILTER RING (STANDARD)

SHIELDING CONE (-SC)

SHIELDING CYLINDER (-CY)

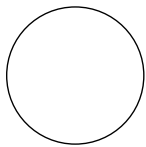
WALL WASH CONE (-WWC)

### Filter Media

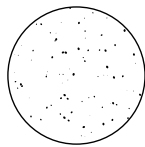
ADD FILTER MEDIA CODE (BELOW) TO END OF MODEL NUMBER

LED modules accept one 1/8" thick filter. LED direct replacement and legacy lamps accept up to two 1/8" thick filters.

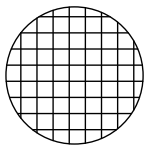
CLEAR GLASS (-CG)



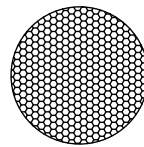
DIFFUSING SPREAD (-DS)



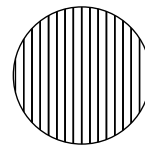
CUBE CELL LOUVER (-CL)



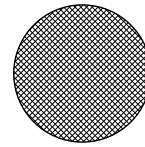
HEXCELL LOUVER (-HL)



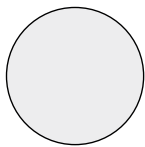
LINEAR SPREAD (-LS)



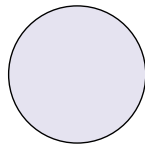
PRISMATIC WIDE SPREAD (-PS)



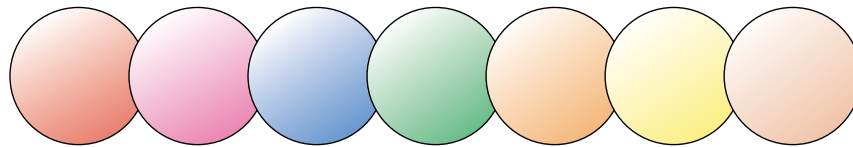
SATIN ETCHED (-SE)



UV BLOCKING (-UB)



DICHROIC



RED (-DR)

MAGENTA (-DM)

BLUE (-DB)

GREEN (-DG)

AMBER (-DA)

YELLOW (-DY)

PEACH (-DP)