



# RECESSED ADJUSTABLE

## 3-1/4" OPEN APERTURE

### IC Rated, 50W MR16

### IC43N, 438N TRIM

#### PRODUCT DESCRIPTION

Recessed adjustable MR16 luminaire with 3/4" angle-cut Alzak cone aperture and precision geared hot-aiming. Fixture has 50° visual cutoff to lamp and lamp image. Sealed Air-Loc housing eliminates leak-paths to ensure maximum energy savings and controls plenum sound transmission. IC rated housing for use in direct contact with insulation.

#### PRODUCT SPECIFICATIONS

**Reflector** .040" aluminum angle-cut reflector in clear, gold, black, haze, or wheat haze Alzak finish provides 50° lamp and lamp image cut-off.

**Trims Style** Trim Ring, Self Flanged and Flush Mount reflectors utilize torsion spring retention for tight, secure fit to ceiling • Trim ring features beveled knife edge for clean ceiling interface • Self Flanged reflectors with polished or optional white painted flange • For flush mount installations in drywall ceilings use the FMA4 flush mount adapter • For flush mount installations in wood, stone, or tile ceilings the FMA4-SC\*\*\* must be used (specify ceiling thickness and adapter finish).

**Lens** Lampholder accommodates up to three (3) 2" captive accessory lenses • Supplied with stippled clear uniformity lens.

**Socket** Ceramic bi-pin socket with double blade nickel alloy contacts • Quick disconnect for simplified maintenance.

**Lamp** One 50W MR16 lamp.

**Adjustability** Acu-Aim™ precision geared hot-aiming achieves 370° rotation, 45° tilt • Optimized center lamp beam optics translates lamp forward as it is aimed off nadir, insuring maximum light and low brightness • Black aiming mechanism with shield prevents visibility into fixture and preserves dark aperture • Shield hinges out of way to facilitate maintenance.

**Transformer** 120V High efficiency (>90%) dual tap magnetic, toroidal transformer has a boost tap to compensate for dimmer losses, improving color temperature and lumen output • Potted to eliminate noise and vibration • High efficiency (>94%), high power factor electronic transformer also available.

**Dimming** May be dimmed using dimmers specifically designed for low voltage magnetic or electronic transformers; consult factory or dimmer manufacturer for additional information.

**Codes/Labels** UL and cUL listed for direct contact with insulation, through-branch wiring, damp locations • Meets energy code Air Leakage requirements per ASTM E283 • Product thermally protected • Union made.

**Proprietary Bar Hanger System** Patent pending Pro-VI™, telescoping bar hanger system with locking set screws, permits quick placement of housing within 24" O.C. joists or suspended ceilings • Robust bar eliminates flexing regardless of fixture position • Integral T-bar notch with locking tabs secures housing to suspended ceiling grid • Captive bugle-headed ring shank nail for quick one-step installation • Bar Hanger foot aligns to bottom of construction joist and breaks away for use in suspended ceilings.

**Junction Box** Rated for 4 No. 12 AWG 90° C through branch circuit conductors and includes (6) 1/2", (1) 3/4", and (4) Non-metallic sheathed cable knock-outs • Push-in electrical connectors for field connections.

**Housing/Mounting Frame** Steel plaster frame and aluminum housing painted black for visually dark interior • V-Notch in plaster frame aids fixture alignment during installation • Patent pending Tru-Line™ Adjustment Mechanism featuring +/- 1/2" translation aids fixture alignment after installation, prior to drywall.

**Ceiling Thickness** 1/2" - 7/8" ceiling standard • For thicker ceilings, order CTA4N-125 (7/8"-1 1/4"), CTA4N-163 (1 1/4"-1 5/8") or CTA4N-200 (1 5/8"-2") • CTA4N not required for wood, stone, or tile flush mount applications.

Project: \_\_\_\_\_

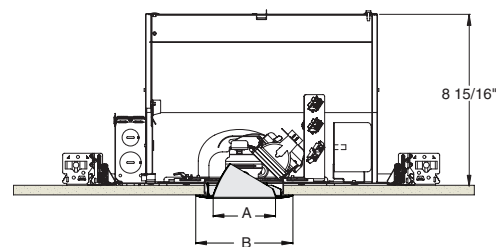
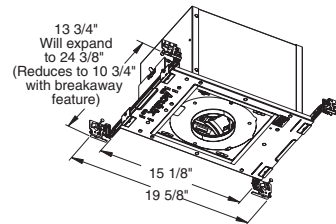
Fixture Type: \_\_\_\_\_

Location: \_\_\_\_\_

Contact/Phone: \_\_\_\_\_



#### DIMENSIONS



4 1/4" CEILING CUTOUT  
(REFER TO INSTRUCTION SHEET FOR  
FLUSH MOUNT CEILING CUTOUT)

	A	B
Trim Ring	3 1/4"	5"
Self Flanged	3 3/8"	4 5/8"
Flush Mount	3 3/8"	3 7/8"

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### Housings

Catalog #	Description
IC43N	Low Voltage Adj. Recessed Magnetic Transformer, 120V
IC43N-E1	Low Voltage Adj. Recessed Electronic Transformer, 120V

### Angle Cut Adjustable Accent Cone



Trim Ring <sup>1</sup>	Self Flanged <sup>2</sup>	Flush Mount <sup>3</sup>	Description
438NB-WH	438NB-SF	438NB-FM	Black Cone
438NB-ABZ	-	-	Black Cone
438NB-SC	-	-	Black Cone
438NC-WH	438NC-SF	438NC-FM	Clear Cone
438NG-WH	438NG-SF	438NG-FM	Gold Cone
438NHZ-WH	438NHZ-SF	438NHZ-FM	Haze Cone, White Ring
438NHZ-SC	-	-	Haze Cone
438NWHZ-WH	438NWHZ-SF	438NWHZ-FM	Wheat Haze Cone, White Ring
438NWHZ-ABZ	-	-	Wheat Haze Cone

<sup>1</sup>Trim Ring Finish: ABZ - Classic Aged Bronze, SC - Satin Chrome, WH - White.

<sup>2</sup>For self flanged reflector with optional white painted flange, replace "-SF" suffix with "-SF~~WH~~".

<sup>3</sup>Flush Mount trims must be used with Flush Mount Adapter, ordered separately. Product specifications subject to change without notice.

### Flush Mount Adapters

FMA4	Description
FMA4-SC087-WH	Wood, Stone, Tile, 1/2"-7/8" Thick Ceiling, Adapter, White
FMA4-SC087-BL	Wood, Stone, Tile, 1/2"-7/8" Thick Ceiling, Adapter, Black
FMA4-SC125-WH	Wood, Stone, Tile, 7/8"-1 1/4" Thick Ceiling, Adapter, White
FMA4-SC125-BL	Wood, Stone, Tile, 7/8"-1 1/4" Thick Ceiling, Adapter, Black
FMA4-SC163-WH	Wood, Stone, Tile, 1 1/4"-1 5/8" Thick Ceiling, Adapter, White
FMA4-SC163-BL	Wood, Stone, Tile, 1 1/4"-1 5/8" Thick Ceiling, Adapter, Black

### Optical Accessories

Cat. #	Description	Cat. #	Description
T741	Med. Pink Color Filter	T7405	Yellow Dichroic Lens
T742	Warm Red Color Filter	T7406	Magenta Dichroic Lens
T743	Daylight Blue Color Filter	T7411	Blue Green Dichroic Lens
T744	Med. Blue Color Filter	T7416	Daylight Blue Correction Lens
T745	Med. Amber Color Filter	T7420	Diffuse Spread Lens
T746	Med. Green Color Filter	T7422	UV Filter Lens
T7401	Red Dichroic Lens	T7477	Prismatic Lens
T7403	Med. Green Dichroic Lens	T7478	Linear Spread Lens
T7404	Med. Blue Dichroic Lens	T7459BL	Hexcell Louver

### Misc. Accessories

CTA4N-125	1 1/4" Thick Ceiling Adapter
CTA4N-163	1 5/8" Thick Ceiling Adapter
CTA4N-200	2" Thick Ceiling Adapter

To order, specify catalog number.



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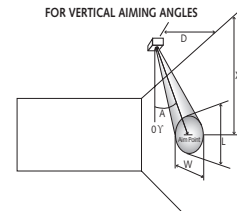
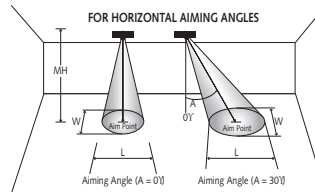
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**CBCP** • Centerbeam candlepower  
**FC** • Footcandles at beam center (aim point)

In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°, 1.0 for 45°).



Lamp	Beam Type	Beam Spread°	Rated Life	CBCP	0°				30°			30°					45°								
					MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W					
35W MR16 Halogen	NSP	10°	4000	9100	6	253	1.0	1.0	164	1.4	1.2	3	126	5.2	2.1	1.0	357	3.0	1.1	0.7					
					8	142	1.4	1.4	92	1.9	1.6	4	71	6.9	2.9	1.4	201	4.0	1.4	1.0					
					10	91	1.7	1.7	59	2.3	2.0	5	46	8.7	3.6	1.7	129	5.0	1.8	1.2					
					12	63	2.1	2.1	41	2.8	2.4	6	32	10.4	4.3	2.1	89	6.0	2.1	1.5					
					14	46	2.4	2.4	30	3.3	2.8	7	23	12.1	5.0	2.4	66	7.0	2.5	1.7					
	FL	35°	4000	1500	4	94	2.5	2.5	61	3.5	2.9	2	47	3.5	7.2	2.5	133	2.0	2.8	1.8					
					6	42	3.8	3.8	27	5.2	4.4	3	21	5.2	10.8	3.8	59	3.0	4.2	2.7					
					8	23	5.0	5.0	15	7.0	5.8	4	12	6.9	14.4	5.0	33	4.0	5.6	3.6					
					10	15	6.3	6.3	10	8.7	7.3	5	8	8.7	18.0	6.3	21	5.0	7.0	4.5					
					12	10	7.6	7.6	7	10.4	8.7	6	5	10.4	21.6	7.6	15	6.0	8.4	5.4					
					37W MR16 Halogen IR	NSP	10°	5000	12500	6	347	1.0	1.0	226	1.4	1.2	3	174	5.2	2.1	1.0	491	3.0	1.1	0.7
										8	195	1.4	1.4	127	1.9	1.6	4	98	6.9	2.9	1.4	276	4.0	1.4	1.0
NFL	25°	5000	4400	10	125	1.7	1.7	81	2.3	2.0	5	63	8.7	3.6	1.7	177	5.0	1.8	1.2						
				12	87	2.1	2.1	56	2.8	2.4	6	43	10.4	4.3	2.1	123	6.0	2.1	1.5						
				14	64	2.4	2.4	41	3.3	2.8	7	32	12.1	5.0	2.4	90	7.0	2.5	1.7						
				4	275	1.8	1.8	179	2.4	2.0	2	138	3.5	4.2	1.8	389	2.0	1.9	1.3						
				6	122	2.7	2.7	79	3.6	3.1	3	61	5.2	6.2	2.7	173	3.0	2.8	1.9						
				8	69	3.5	3.5	45	4.8	4.1	4	34	6.9	8.3	3.5	97	4.0	3.7	2.5						
				10	44	4.4	4.4	29	6.0	5.1	5	22	8.7	10.4	4.4	62	5.0	4.7	3.1						
				12	31	5.3	5.3	20	7.2	6.1	6	15	10.4	12.5	5.3	43	6.0	5.6	3.8						
				FL	35°	5000	2200	3	244	1.9	1.9	159	2.6	2.2	2	69	3.5	7.2	2.5	194	2.0	2.8	1.8		
								4	138	2.5	2.5	89	3.5	2.9	3	31	5.2	10.8	3.8	86	3.0	4.2	2.7		
42W MR16 Halogen	VNSP	9°	3500	12300	8	192	1.3	1.3	125	1.7	1.5	4	96	6.9	2.6	1.3	272	4.0	1.3	0.9					
					10	123	1.6	1.6	80	2.1	1.8	5	62	8.7	3.2	1.6	174	5.0	1.6	1.1					
					12	85	1.9	1.9	55	2.5	2.2	6	43	10.4	3.8	1.9	121	6.0	1.9	1.3					
					14	63	2.2	2.2	41	2.9	2.5	7	31	12.1	4.5	2.2	89	7.0	2.2	1.6					
					16	48	2.5	2.5	31	3.4	2.9	8	24	13.9	5.1	2.5	68	8.0	2.5	1.8					
					50W MR16 Halogen	NSP	15°	6000	9100	6	253	1.6	1.6	164	2.1	1.8	3	126	5.2	3.3	1.6	357	3.0	1.6	1.1
										8	142	2.1	2.1	92	2.8	2.4	4	71	6.9	4.4	2.1	201	4.0	2.1	1.5
										10	91	2.6	2.6	59	3.5	3.0	5	46	8.7	5.6	2.6	129	5.0	2.7	1.9
12	63	3.2	3.2	41						4.2	3.6	6	32	10.4	6.7	3.2	89	6.0	3.2	2.2					
14	46	3.7	3.7	30						4.9	4.3	7	23	12.1	7.8	3.7	66	7.0	3.8	2.6					
NFL	25°	6000	3200	4						200	1.8	1.8	130	2.4	2.0	2	100	3.5	4.2	1.8	283	2.0	1.9	1.3	
				6	89	2.7	2.7	58	3.6	3.1	3	44	5.2	6.2	2.7	126	3.0	2.8	1.9						
				8	50	3.5	3.5	32	4.8	4.1	4	25	6.9	8.3	3.5	71	4.0	3.7	2.5						
				10	32	4.4	4.4	21	6.0	5.1	5	16	8.7	10.4	4.4	45	5.0	4.7	3.1						
				12	22	5.3	5.3	14	7.2	6.1	6	11	10.4	12.5	5.3	31	6.0	5.6	3.8						
				FL	40°	6000	1700	3	189	2.2	2.2	123	3.0	2.5	2	53	3.5	9.7	2.9	150	2.0	3.4	2.1		
4	106	2.9	2.9					69	4.1	3.4	3	24	5.2	14.5	4.4	67	3.0	5.0	3.1						
6	47	4.4	4.4					31	6.1	5.0	4	13	6.9	19.3	5.8	38	4.0	6.7	4.1						
8	27	5.8	5.8					17	8.1	6.7	5	9	8.7	24.2	7.3	24	5.0	8.4	5.1						
10	17	7.3	7.3					11	10.2	8.4	6	6	10.4	**	8.7	17	6.0	10.1	6.2						

The beam spread in degrees and the beam "L" and "W" in the following tables are computed at 50% of centerbeam candlepower and represent areas of "effective illumination."

\*\*Due to steep aiming angle, length of beam extends beyond 25'. Each angle is measured from 0° vertical.

