



RECESSED ADJUSTABLE

1-1/4" LENSED PINHOLE APERTURE

Non-IC Rated, 75W MR16



TC943N, 4331N TRIM

PRODUCT DESCRIPTION

Recessed adjustable MR16 luminaire with 1 1/4" pinhole featuring stippled uniformity lens on the aperture. Fixture utilizes precision geared hot-aiming and has 50° visual cutoff to lamp and lamp image. Low profile non-IC housing is for use in non-insulated areas, or where insulation is spaced at least 3" from housing. Supplied with vertically adjustable mounting brackets that accept 1/2" conduit, "C" channel bar hangers, linear bar hangers or telescoping Real Nail bar hangers.

PRODUCT SPECIFICATIONS

Reflector .040" aluminum angle-cut reflector in black Alzak finish shields housing interior.

Trims Style Trim Ring utilizes torsion spring retention for tight, secure fit to ceiling • Trim ring features beveled knife edge for clean ceiling interface • Flush Mount trims utilize torsion spring retention for tight, secure fit to ceiling • 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 uniformity lens.

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

Lamp One 75W 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 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 • 120V or 277V 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 through branch wiring, wet locations • Product thermally protected • Union made.

Mounting Bracket Rough-in section equipped with vertically adjustable mounting brackets that accept 1/2" conduit, "C" channels (HB-26 or HB-50), linear flat bars (LB-27) or 26" telescoping Real Nail bar hangers (HB-1).

Junction Box Rated for 8 No. 12 AWG 90° C through branch circuit conductors and includes (5) 1/2", (1) 3/4", and (4) Non-metallic sheathed cable knock-outs • Push-in electrical connectors for field connections.

Housing/Mounting Frame Black steel plaster frame and housing painted 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.

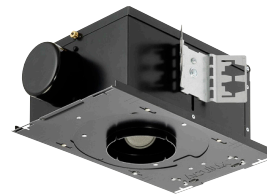
Ceiling Thickness 1/2" – 7/8" ceiling standard • For thicker ceilings, order CTA4N-125 (7/8"-1 1/4"), CTA4N-163 (1 1/4"-1 5/8") or CTA4N-200 (1 5/8"- 2") • CTA4N not required for wood, stone, or tile flush mount applications.

Project: _____

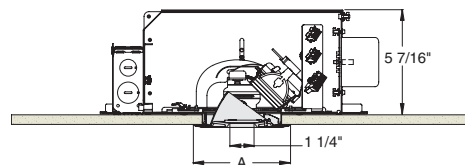
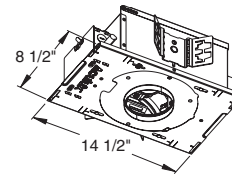
Fixture Type: _____

Location: _____

Contact/Phone: _____



DIMENSIONS



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

	A
Trim Ring	5"
Flush Mount	3 7/8"

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Ordering Information Housing, trim and accessories each ordered separately

Example: **TC943N-V**

Housing	Transformer	Options
TC943N	Blank 120V Magnetic V 277V Magnetic E1 120V Electronic E2 277V Electronic	CP Chicago Plenum

Example: **4331N-WH**

Trim/Description		
		
Trim Ring	Flush Mount ¹	Description
4331N-ABZ	-	Aged Bronze Trim
4331N-SC	-	Satin Chrome Trim
4331N-WH	4331N-WH-FM	White Trim
4331N-BL	4331N-BL-FM	Black Trim

¹Flush 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
HB-1	(2) Real Nail 3 Bar Hangers
HB-26	(2) 26" C-Channel Bar Hangers
HB-50	(2) 50" C-Channel Bar Hangers
LB-27	(2) 27" Linear Bar Hangers

To order, specify catalog number.



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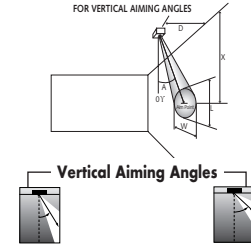
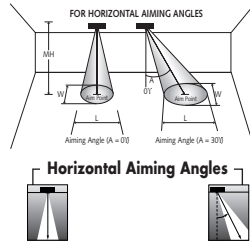
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CBCP • Centerbeam candlepower
FC • Footcandles at beam center (aim point)

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	
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	
					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	
	NFL	25°	5000	4400	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	
	FL	35°	5000	2200	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	
					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	
	NFL	25°	6000	3200	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	
					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	
	NFL	40°	6000	1700	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	
					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	
50W MR16 Halogen IR Lensed	NSP	15°	6000	9100	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	
					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	
	NFL	25°	5000	5700	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	
	FL	35°	5000	2850	5	9	8.7	10.4	7.3	24	5.0	8.4	5.1	589	3.0	1.1	0.7	331	4.0	1.4	1.0
					8	234	1.4	1.4	152	1.9	1.6	4	117	6.9	2.9	1.4	212	5.0	1.8	1.2	
					10	150	1.7	1.7	97	2.3	2.0	5	75	8.7	3.6	1.7	147	6.0	2.1	1.5	
71W MR16 Halogen	SP	15°	4000	11500	6	417	1.0	1.0	217	1.4	1.2	3	208	5.2	2.1	1.0	589	3.0	1.1	0.7	
					8	234	1.4	1.4	152	1.9	1.6	4	117	6.9	2.9	1.4	331	4.0	1.4	1.0	
					10	150	1.7	1.7	97	2.3	2.0	5	75	8.7	3.6	1.7	212	5.0	1.8	1.2	
	NFL	25°	4000	5500	12	104	2.1	2.1	68	2.8	2.4	6	52	10.4	4.3	2.1	147	6.0	2.1	1.5	
					4	356	1.8	1.8	231	2.1	2.0	2	178	3.5	4.2	1.8	504	2.0	1.9	1.3	
					6	158	2.7	2.7	103	3.6	3.1	3	79	5.2	6.2	2.7	224	3.0	2.8	1.9	
	FL	40°	4000	2200	8	89	3.5	3.5	58	4.8	4.1	4	45	6.9	8.3	3.5	126	4.0	3.7	2.5	
					10	57	4.4	4.4	37	6.0	5.1	5	29	8.7	10.4	4.4	81	5.0	4.7	3.1	
					3	317	1.9	1.9	206	2.6	2.2	2	89	3.5	7.2	2.5	252	2.0	2.8	1.8	
71W MR16 Halogen	NFL	25°	4000	5500	4	178	2.5	2.5	116	3.5	2.9	3	40	5.2	10.8	3.8	112	3.0	4.2	2.7	
					6	79	3.8	3.8	51	5.2	4.4	4	22	6.9	14.4	5.0	63	4.0	5.6	3.6	
					8	45	5.0	5.0	29	7.0	5.8	5	14	8.7	18.0	6.3	40	5.0	7.0	4.5	
	FL	40°	4000	2200	5	14	8.7	10.4	7.3	24	5.0	8.4	5.1	452	3.0	1.6	1.1	254	4.0	2.1	1.5
					8	180	2.1	2.1	117	2.8	2.4	4	90	6.9	4.4	2.1	254	4.0	2.1	1.5	
					10	115	2.6	2.6	75	3.5	3.0	5	58	8.7	5.6	2.6	163	5.0	2.7	1.9	
	NFL	40°	4000	2200	12	80	3.2	3.2	52	4.2	3.6	6	40	10.4	6.7	3.2	113	6.0	3.2	2.2	
					4	344	1.8	1.8	223	2.4	2.0	2	172	3.5	4.2	1.8	486	2.0	1.9	1.3	
					6	153	2.7	2.7	99	3.6	3.1	3	76	5.2	6.2	2.7	216	3.0	2.8	1.9	
FL	40°	4000	2200	8	86	3.5	3.5	56	4.8	4.1	4	43	6.9	8.3	3.5	122	4.0	3.7	2.5		
				10	55	4.4	4.4	36	6.0	5.1	5	28	8.7	10.4	4.4	78	5.0	4.7	3.1		
				3	244	2.2	2.2	159	3.0	2.5	2	69	3.5	9.7	2.9	194	2.0	3.4	2.1		

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."



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