



RECESSED DOWNLIGHT

3-1/4" OPEN APERTURE

Non-IC Rated 20W, 39W CMH MR16

TC943M, 437N TRIM

PRODUCT DESCRIPTION

Recessed metal halide MR16 downlight luminaire with 3/4" Alzak deep cone aperture. 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 parabolic reflector in clear, gold, black, haze, or wheat haze Alzak finish.

Trims Style Trim Ring, Self Flanged and Flush Mount reflectors utilize precision wound double 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 two (2) 2" captive accessory lenses.

Socket GX10 twist lock socket with quick disconnect for simplified maintenance.

Lamp One 20W or 39W CMH MR16 lamp.

Ballast High Power Factor, electronic solid state ballast with less than 10% THD • Features transient and short circuit protection • Available in 120V or 277V.

Codes/Labels UL and cUL listed for through branch wiring, damp 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.

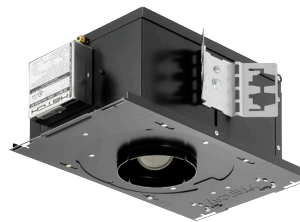
Ceiling Thickness 1/2" - 7/8" ceiling standard • For thicker ceilings, order CTA4N-125 (7/8"-1 1/4"), CTA4N-163 (1 1/4"-1 5/8") or CTA4N-200 (1 5/8"-2") • CTA4N not required for wood, stone, or tile flush mount applications.

Project: _____

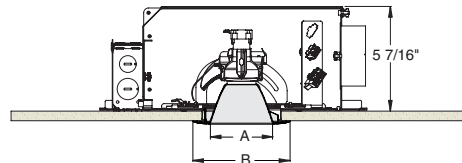
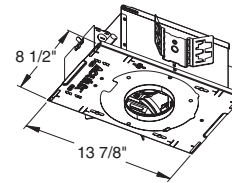
Fixture Type: _____

Location: _____

Contact/Phone: _____



DIMENSIONS



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

	A	B
Trim Ring	3 1/4"	5"
Self Flanged	3 3/8"	4 11/16"
Flush Mount	3 3/8"	3 7/8"

RECESSED DOWNLIGHT

3-1/4" OPEN APERTURE

Non-IC Rated 20W, 39W CMH MR16

TC943M, 437N TRIM

Ordering Information

Housing, trim and accessories each ordered separately

Example: **TC943M-MR16-20E1**

Housing	Wattage	Voltage	Options
TC943M-MR16	20 20W 39 39W	E1 120V E2 277V	CP Chicago Plenum

Example: **437NC-WH**

Trim/Description



Trim Ring ¹	Self Flanged ²	Flush Mount ³	Description
437NB-WH	437NB-SF	437NB-FM	Black Cone
437NC-WH	437NC-SF	437NC-FM	Clear Cone
437NG-WH	437NG-SF	437NG-FM	Gold Cone
437NHZ-SC	-	-	Haze Cone
437NHZ-WH	437NHZ-SF	437NHZ-FM	Haze Cone, White Ring
437NWHZ-ABZ	-	-	Wheat Haze Cone
437NWHZ-WH	437NWHZ-SF	437NWHZ-FM	Wheat Haze Cone, White Ring

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

²For self flanged reflector with optional white painted flange, replace ".SF" suffix with ".SFWH".

³Flush 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.



PHOTOMETRIC REPORT

Catalog Number: TC943M (437NC-WH)
Test Number: PT12090203
Total Luminaire Efficiency: 81.9%
Luminaire Spacing Criteria: 0.4
Luminaire: Clear specular Alzak® Downlight Trim. Open Aperture.
Lamps: One CMH39MR16/930/FL, rated at 2200 total lumens.

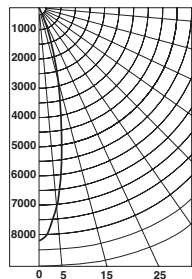


Table with 3 columns: Angle (Candelas), Candela, Lumens. Lists values for angles from 0 to 85 degrees.

Initial Footcandles

Table with 4 columns: Distance to Illuminated Plane (feet), Footcandles Beam Center, Footcandles Beam Edge, Beam Diameter. Lists values for distances from 6 to 15 feet.

Luminaire Data

Table with 3 columns: Ang in Deg, Footlamberts, Candela/M^2. Lists values for angles from 45 to 85 degrees.

Zonal Lumen Summary

Table with 4 columns: Zone, Lumens, %Lamp, %Fixture. Lists values for zones from 0-30 to 0-180 degrees.

AVERAGE INITIAL FOOTCANDLES

Reflectances: 80% Ceiling, 50% Walls, 20% Floors

Table with 4 columns: Luminaire Spacing, RCR1, RCR3, RCR5. Lists values for spacing dimensions from 4' x 4' to 12' x 12'.

COEFFICIENTS OF UTILIZATION - % (Zonal Cavity Method)

Effective Floor Reflectance 20%

Table with 11 columns: PCC, 80, 70, 50, 30, 10, 0. Lists utilization coefficients for various PCC and room proportions.

PHOTOMETRIC REPORT

Catalog Number: TC943M (437NC-WH)
Test Number: PT12090303
Total Luminaire Efficiency: 78.9%
Luminaire Spacing Criteria: 0.56
Luminaire: Clear specular Alzak® Downlight Trim. Open Aperture.
Lamps: One CMH39MR16/930/WFL, rated at 2200 total lumens.

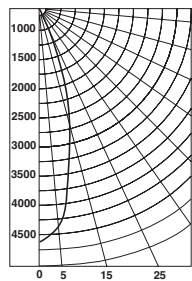


Table with 3 columns: Angle (Candelas), Candela, Lumens. Lists values for angles from 0 to 85 degrees.

Initial Footcandles

Table with 4 columns: Distance to Illuminated Plane (feet), Footcandles Beam Center, Footcandles Beam Edge, Beam Diameter. Lists values for distances from 6 to 15 feet.

Luminaire Data

Table with 3 columns: Ang in Deg, Footlamberts, Candela/M^2. Lists values for angles from 45 to 85 degrees.

Zonal Lumen Summary

Table with 4 columns: Zone, Lumens, %Lamp, %Fixture. Lists values for zones from 0-30 to 0-180 degrees.

AVERAGE INITIAL FOOTCANDLES

Reflectances: 80% Ceiling, 50% Walls, 20% Floors

Table with 4 columns: Luminaire Spacing, RCR1, RCR3, RCR5. Lists values for spacing dimensions from 4' x 4' to 12' x 12'.

COEFFICIENTS OF UTILIZATION - % (Zonal Cavity Method)

Effective Floor Reflectance 20%

Table with 11 columns: PCC, 80, 70, 50, 30, 10, 0. Lists utilization coefficients for various PCC and room proportions.

