



RECESSED ADJUSTABLE 3-1/4" BAFFLED APERTURE Non-IC Rated, 75W MR16 TC943N, 435N TRIM

PRODUCT DESCRIPTION

Recessed adjustable MR16 luminaire with 3 1/4" angle-cut grooved baffle aperture and precision geared hot-aiming. Fixture 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

Baffle Angle-cut grooved baffle available in white or black
 • Provides 50° lamp and lamp image cut-off.

Trims Style Utilizes torsion spring retention for tight, secure fit to ceiling • Trim ring features beveled knife edge for clean ceiling interface.

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 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, 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.

Project: _____

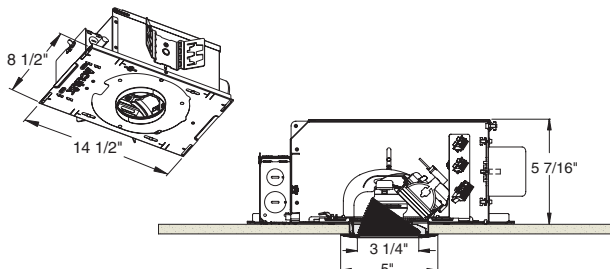
Fixture Type: _____

Location: _____

Contact/Phone: _____



DIMENSIONS



4 1/4" CEILING CUTOUT

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").

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: **435NB-WH**

| Trim/Description |
|------------------|
| |

Accessories

| Cat. # | Description | Cat. # | Description |
|--------------|-------------------------------|------------------|-------------------------------|
| T741 | Med. Pink Color Filter | T7420 | Diffuse Spread Lens |
| T742 | Warm Red Color Filter | T7422 | UV Filter Lens |
| T743 | Daylight Blue Color Filter | T7477 | Prismatic Lens |
| T744 | Med. Blue Color Filter | T7478 | Linear Spread Lens |
| T745 | Med. Amber Color Filter | T7459BL | Hexcell Louver |
| T746 | Med. Green Color Filter | CTA4N-125 | 1 1/4" Thick Ceiling Adapter |
| T7401 | Red Dichroic Lens | CTA4N-163 | 1 5/8" Thick Ceiling Adapter |
| T7403 | Med. Green Dichroic Lens | CTA4N-200 | 2" Thick Ceiling Adapter |
| T7404 | Med. Blue Dichroic Lens | HB-1 | (2) Real Nail 3 Bar Hangers |
| T7405 | Yellow Dichroic Lens | HB-26 | (2) 26" C-Channel Bar Hangers |
| T7406 | Magenta Dichroic Lens | HB-50 | (2) 50" C-Channel Bar Hangers |
| T7411 | Blue Green Dichroic Lens | LB-27 | (2) 27" Linear Bar Hangers |
| T7416 | Daylight Blue Correction Lens | | |

To order, specify catalog number.



| Trim Ring | Description |
|------------------|--------------------------|
| 435NB-WH | Black Baffle |
| 435NB-ABZ | Black Baffle |
| 435NB-SC | Black Baffle |
| 435NW-WH | White Baffle, White Ring |

Trim Ring Finish: ABZ - Classic Aged Bronze, SC - Satin Chrome, WH - White.
 Product specifications subject to change without notice.

RECESSED ADJUSTABLE

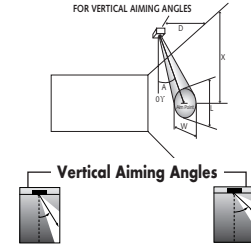
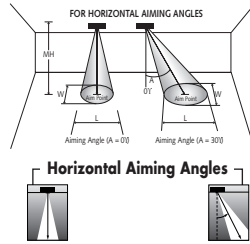
3-1/4" BAFFLED APERTURE

Non-IC Rated, 75W MR16

TC943N, 435N TRIM

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 |
| FL | 35° | 5000 | 2200 | 6 | 61 | 3.8 | 3.8 | 40 | 5.2 | 4.4 | 4 | 17 | 6.9 | 14.4 | 5.0 | 49 | 4.0 | 5.6 | 3.6 | |
| | | | | 8 | 34 | 5.0 | 5.0 | 22 | 7.0 | 5.8 | 5 | 11 | 8.7 | 18.0 | 6.3 | 31 | 5.0 | 7.0 | 4.5 | |
| | | | | 5 | 11 | 8.7 | 18.0 | 6.3 | 4 | 17 | 6.9 | 14.4 | 5.0 | 49 | 4.0 | 5.6 | 3.6 | | | |
| 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 |
| 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 |
| | NFL | 25° | 6000 | 3200 | 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 |
| | | | | | 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 |
| | NFL | 25° | 6000 | 3200 | 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 |
| FL | 40° | 6000 | 1700 | 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 | |
| 50W MR16 Halogen IR Lensed | NSP | 10° | 5000 | 15000 | 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° | 5000 | 5700 | 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 |
| | NFL | 25° | 5000 | 5700 | 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 |
| FL | 35° | 5000 | 2850 | 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 | |
| 71W MR16 Halogen | NSP | 15° | 4000 | 11500 | 6 | 319 | 1.6 | 1.6 | 207 | 2.1 | 1.8 | 3 | 160 | 5.2 | 3.3 | 1.6 | 452 | 3.0 | 1.6 | 1.1 |
| | | | | | 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 | 25° | 4000 | 5500 | 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 |
| | NFL | 25° | 4000 | 5500 | 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 |
| FL | 40° | 4000 | 2200 | 4 | 138 | 2.9 | 2.9 | 89 | 4.1 | 3.4 | 3 | 31 | 5.2 | 14.5 | 4.4 | 86 | 3.0 | 5.0 | 3.1 | |
| | | | | 6 | 61 | 4.4 | 4.4 | 40 | 6.1 | 5.0 | 4 | 17 | 6.9 | 19.3 | 5.8 | 49 | 4.0 | 6.7 | 4.1 | |
| | | | | 8 | 34 | 5.8 | 5.8 | 22 | 8.1 | 6.7 | 5 | 11 | 8.7 | 24.2 | 7.3 | 31 | 5.0 | 8.4 | 5.1 | |

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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