



RECESSED REMODEL WALL WASH

3-1/4" LENSED WALL WASH

TC Rated, 50W MR16
TC43NR, 439N TRIM

PRODUCT DESCRIPTION

Recessed MR16 remodel luminaire with 3 1/4" spread lens wall wash aperture. Fixture has 50° visual cutoff to lamp and lamp image. Low profile TC housing is for use in non-insulated areas, or where insulation is spaced at least 3" from housing. Installs quickly and securely with patented (US Patent 7,191,993) push-pull cable system through ceiling opening.

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 • Specular clear kicker reflector directs light toward wall surface.

Trims Style Trims utilize torsion spring retention for tight, secure fit to ceiling • Trim ring features beveled knife edge for clean ceiling interface • Not recommended with Self Flanged trims.

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 and aluminum heat shield.

Lamp One 50W MR16 lamp.

Transformer 120 V thermally protected magnetic transformer is serviceable from below ceiling • High efficiency (>95%), 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 through branch wiring, wet locations • Product thermally protected • Union made.

Patented (US Patent 7,191,993) "Push-Pull" Cable System Allows rapid installation without tools or loose parts • Template included for accurate ceiling cutout • Housing accommodates ceiling thickness from 3/8" to 2" without altering photometrics • Fits 2 x 6 construction.

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

Housing/Mounting Frame Galvanized steel plaster frame. Housing painted black for visually dark interior • Packaged for ease of rapid installation.

Project: _____

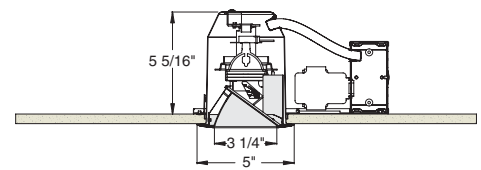
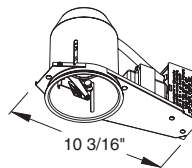
Fixture Type: _____

Location: _____

Contact/Phone: _____



DIMENSIONS



4 7/16" CEILING CUTOUT

Housings

| Catalog # | Description |
|-----------|---------------------------------------------------|
| TC43NR | Low Voltage Recessed Magnetic Transformer, 120V |
| TC43NR-E1 | Low Voltage Recessed Electronic Transformer, 120V |

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 |

To order, specify catalog number.

Lensed Angle Cut Wall Wash



| Trim Ring | Description |
|-------------|-----------------------------|
| 439NB-WH | Black Cone |
| 439NC-WH | Clear Cone |
| 439NG-WH | Gold Cone |
| 439NHZ-SC | Haze Cone |
| 439NHZ-WH | Haze Cone, White Ring |
| 439NWHZ-ABZ | Wheat Haze Cone |
| 439NWHZ-WH | Wheat Haze Cone, White Ring |

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

PHOTOMETRIC REPORT

Catalog Number: TC43NR (439NC-WH)

Test Number: PTO3101003

Total Luminaire Efficiency: 63.8%

Luminaire Spacing Criteria: 1.06

Luminaire: Haze finish, lensed angle cut trim.

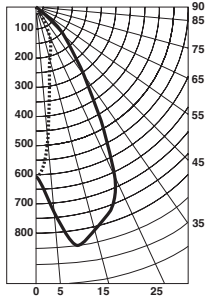
Lamps: One 37MR/1R/FL35/C, rated at 800 total lumens.

Luminance Data

| Ang in Deg | Footlamberts | Candela/M ² |
|---------------|--------------|------------------------|
| 45 | 4129 | 14148 |
| 55 | 1212 | 4153 |
| 65 | 0 | 0 |
| 75 | 0 | 0 |
| 85 | 0 | 0 |

Zonal Lumen Summary

| Zone | Lumens | %Lamp | %Fixture |
|---------|--------|-------|----------|
| 0-30° | 334 | 41.7 | 65.4 |
| 0-40° | 426 | 53.3 | 83.5 |
| 0-60° | 502 | 62.8 | 98.5 |
| 0-90° | 510 | 63.8 | 100.0 |
| 90-180° | 0 | 0.0 | 0.0 |
| 0-180° | 510 | 63.8 | 100.0 |



Candlepower Distribution (Candelas)

| Degrees Vertical | 0° Wall Wash | 180° Downlight |
|---------------------|-----------------|-------------------|
| 0° | 603 | 603 |
| 5° | 582 | 481 |
| 15° | 414 | 207 |
| 25° | 281 | 129 |
| 35° | 112 | 41 |
| 45° | 62 | 16 |
| 55° | 15 | 0 |
| 65° | 0 | 0 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |

Footcandles on Wall from Multiple Fixtures

| Fixture Distance to Wall Fixture Centers (spacing) | 18" | | | 24" | | | | | | | | |
|-------------------------------------------------------|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|
| | 18" | 24" | 18" | 24" | 18" | 24" | | | | | | |
| 1' | 18 | 12 | 18 | 16 | 7 | 16 | 7 | 6 | 7 | 6 | 4 | 6 |
| 2' | 38 | 39 | 38 | 31 | 24 | 31 | 25 | 24 | 25 | 20 | 17 | 20 |
| 3' | 37 | 35 | 37 | 30 | 25 | 30 | 28 | 30 | 28 | 22 | 23 | 22 |
| 4' | 30 | 27 | 30 | 22 | 21 | 22 | 28 | 26 | 28 | 21 | 20 | 21 |
| 5' | 21 | 20 | 21 | 16 | 15 | 16 | 24 | 22 | 24 | 18 | 17 | 18 |
| 6' | 15 | 15 | 15 | 11 | 11 | 11 | 19 | 19 | 19 | 14 | 14 | 14 |
| 7' | 11 | 11 | 11 | 8 | 8 | 8 | 14 | 15 | 14 | 11 | 11 | 11 |
| 8' | 9 | 9 | 9 | 7 | 6 | 7 | 11 | 11 | 11 | 9 | 8 | 9 |
| 9' | 7 | 7 | 7 | 5 | 5 | 5 | 9 | 9 | 9 | 7 | 7 | 7 |

*Multipliers: 42W MR16 - 0.86, 35W MR16 - 0.72, 20W MR16 - 0.38, Gold - 0.9, Black - 0.7, Haze - 0.95

*Note: Multipliers are provided for estimating purposes only. Use IES photometric files for precise photometric information.

PHOTOMETRIC REPORT

Catalog Number: TC43NR (439NC-WH)

Test Number: PTO3101101

Total Luminaire Efficiency: 64.9%

Luminaire Spacing Criteria: 0.92

Luminaire: Haze finish, lensed angle cut trim.

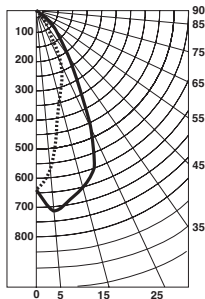
Lamps: One 50MR16C/FL40, rated at 800 total lumens.

Luminance Data

| Ang in Deg | Footlamberts | Candela/M ² |
|---------------|--------------|------------------------|
| 45 | 5005 | 17148 |
| 55 | 1003 | 3436 |
| 65 | 237 | 812 |
| 75 | 0 | 0 |
| 85 | 0 | 0 |

Zonal Lumen Summary

| Zone | Lumens | %Lamp | %Fixture |
|---------|--------|-------|----------|
| 0-30° | 342 | 42.8 | 65.9 |
| 0-40° | 431 | 53.8 | 82.9 |
| 0-60° | 508 | 63.5 | 82.9 |
| 0-90° | 519 | 64.9 | 100.0 |
| 90-180° | 0 | 0.0 | 0.0 |
| 0-180° | 519 | 64.9 | 100.0 |



Candlepower Distribution (Candelas)

| Degrees Vertical | 0° Wall Wash | 180° Downlight |
|---------------------|-----------------|-------------------|
| 0° | 645 | 645 |
| 5° | 635 | 588 |
| 15° | 462 | 331 |
| 25° | 311 | 224 |
| 35° | 136 | 80 |
| 45° | 75 | 27 |
| 55° | 12 | 0 |
| 65° | 2 | 0 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |

Footcandles on Wall from Multiple Fixtures

| Fixture Distance to Wall Fixture Centers (spacing) | 18" | | | 24" | | | | | | | | |
|-------------------------------------------------------|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|
| | 18" | 24" | 18" | 24" | 18" | 24" | | | | | | |
| 1' | 19 | 14 | 19 | 17 | 9 | 17 | 10 | 8 | 10 | 8 | 6 | 8 |
| 2' | 29 | 27 | 29 | 23 | 19 | 23 | 21 | 20 | 21 | 16 | 15 | 16 |
| 3' | 28 | 27 | 28 | 23 | 19 | 23 | 21 | 21 | 21 | 17 | 15 | 17 |
| 4' | 24 | 23 | 24 | 18 | 17 | 18 | 21 | 21 | 21 | 16 | 16 | 16 |
| 5' | 18 | 17 | 18 | 13 | 13 | 13 | 19 | 18 | 19 | 14 | 14 | 14 |
| 6' | 13 | 13 | 13 | 10 | 9 | 10 | 16 | 15 | 16 | 12 | 11 | 12 |
| 7' | 10 | 10 | 10 | 7 | 7 | 7 | 12 | 12 | 12 | 9 | 9 | 9 |
| 8' | 7 | 8 | 7 | 6 | 6 | 6 | 10 | 10 | 10 | 7 | 7 | 7 |
| 9' | 6 | 6 | 6 | 5 | 5 | 5 | 8 | 8 | 8 | 6 | 6 | 6 |

*Multipliers: 42W MR16 - 0.86, 35W MR16 - 0.72, 20W MR16 - 0.38, Gold - 0.9, Black - 0.7, Haze - 0.95

*Note: Multipliers are provided for estimating purposes only. Use IES photometric files for precise photometric information.

