



BLACK BODY DIMMING & TUNABLE WHITE 1000 LUMEN ADJUSTABLE, DOWNLIGHT AND WALL WASH LED

SQUARE APERTURE

IC410TSQ, TC410TSQ

PRODUCT DESCRIPTION

Recessed LED luminaire compatible with adjustable, downlight and wall wash trims, features both Black Body Dimming and Tunable White technology in a single fixture and delivers up to 1000 lumens. In Black Body Dimming mode, the luminaire duplicates halogen dimming, creating a natural warm glow as the CCT shifts from 3000K to less than 1800K when dimmed. In Tunable White mode, the CCT can be adjusted anywhere along the Planckian locus from 2000K through 4350K independent of dimming. Aculux Black Body Dimming and Tunable White luminaires feature a sealed Air-Loc® housing and is available in both IC and Non-IC rated configurations.

PRODUCT SPECIFICATIONS

Black Body Dimming When commissioned for Black Body Dimming, the luminaire duplicates halogen, with CCT shifting from 3000K at 100% to 1800K at less than 1%. • Superb color consistency within 2 SDCM of the Black Body curve over dimming range.

Tunable White Mode When commissioned for Tunable White mode, the user has independent control of intensity and CCT from 4350K to 2000K • Superb color consistency within 2 SDCM of the Black Body curve over CCT range.

Color Rendering Accurate color rendition with 90 CRI and 70 R9 at 3000K • Minimum 85 CRI and 50 R9 at all other CCTs.

Control Compatibility Compatible with most 0-10V dimming systems or DMX512/RDM • Refer to installation instruction P6160 for detailed wiring schematics.

Modular Optics Field interchangeable optics available with 20° Very Narrow Flood, 26° Narrow Flood, or 35° Flood distributions • Additional distributions of 30°, 40°, 45°, 55° FWHM can be achieved with the use of diffusing films • Patented (US Patent 8,950,911) auto-adjusting optic holder maximizes luminaire efficiency by maintaining optimal LED optic position relative to trim • Accommodates up to three (3) beam control lenses and/or filters.

Adjustability Acu-Aim™ precision geared hot-aiming achieves 370° rotation, 45° tilt • Optimized center beam optics translates light engine forward as it is aimed off nadir

Trims Style Self Flanged and Flush Mount reflectors available • Self Flanged reflectors with polished or optional white painted flange • For flush mount installations in drywall ceilings use the FMASQ4 flush mount adapter • For flush mount installations in wood, stone, or tile ceilings the FMASQ4-SC*** must be used (specify ceiling thickness and adapter finish).

Life Rated for 50,000 hrs at 70% lumen maintenance.

Warranty 5 years from date of purchase on LED components • Standard Juno Lighting Group product guarantee terms and conditions apply.

Codes/Labels UL and cUL listed for through branch wiring, damp or wet locations depending on trim • Meets energy code Air Leakage requirements per ASTM E283 • Union made.

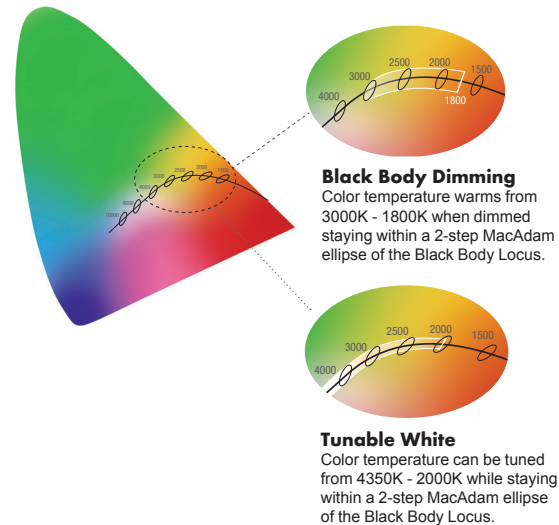
Mounting Non-IC fixtures feature Patented (US Patent 8,038,113) Pro-VI™ bar hanger system, permitting quick placement of housing with 24" on-center joists or suspended ceilings, and vertically adjustable mounting brackets (butterfly brackets) • IC fixtures feature bar hangers only.

Junction Box IC housings are rated for 4 No. 12 AWG 90°C through branch circuit conductors. • Non-IC housings are rated for 8 No. 12 AWG 90°C through branch circuit conductors. • Includes (5) ½", (1) ¾", and (4) Non-metallic sheathed cable knock-outs. • Push-in electrical connectors for field connections.

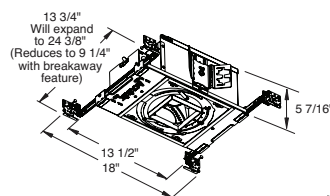
Housing/Mounting Frame Housing painted black for visually dark interior • V-Notch in plaster frame and Patented (US Patent 8,277,090) Tru-Line™ Platform featuring +/- ½" translation aids fixture alignment after installation, prior to drywall.

Ceiling Thickness ½" - 7/8" ceiling standard • For thicker ceilings, order CTA4SQ-125 (7/8"-1 ¼"), CTA4SQ-163 (1 ¼"-1 5/8") or CTA4SQ-200 (1 5/8"-2") • CTA4SQ not required for wood, stone, or tile flush mount applications.

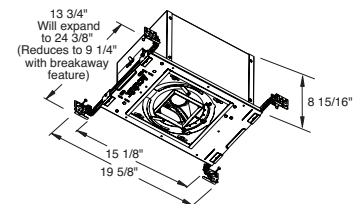
Type	Cat. No.
_____	_____
Project: _____	
Notes: _____	



DIMENSIONS



TC410TSQ



IC410TSQ

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

ELECTRICAL DATA

Housing	IC410TSQ		TC410TSQ	
Voltage	120	277	120	277
Input Power (W)	18.9	19.4	20.9	21.4
Input Current (A)	0.16	0.08	0.16	0.08
Frequency	50/60Hz		50/60Hz	
Power Factor	0.99	0.92	0.99	0.92

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SQUARE APERTURE

IC410TSQ, TC410TSQ

Ordering Information

Housing, trim and accessories each ordered separately

Example: TC410TSQ-W-N-U1

Housing	Tunable White Range	Beam Spread	Dimming	Voltage	Options
<input type="text"/>	<input type="text"/> W <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
IC410TSQ 1000 Lumen, IC Rated	W 4350K - 2000K	V 20° Very Narrow Flood	U 0-10V Dimming	IC Housing: Blank 120-277V	CP* Chicago Plenum
TC410TSQ 1000 Lumen, Non-IC Rated		N 26° Narrow Flood	M DMX512/RDM	Non-IC Housing: 1 120V 2 277V	*Available on TC410TSQ only
		F 35° Flood			

Desired FWHM	Primary Optic	Film
20°	V	-
26°	N	-
30°	N	AF3-10
35°	F	-
40°	N	AF3-30
45°	N	AF3-40
55°	N	AF3-50
50°x20°	N	AF3-60x1

Flush Mount Adapters

Cat. #	Description
FMASQ4	Drywall Ceiling Adapter
FMASQ4-SC100-WH	Wood, Stone, Tile, 1/2"-1" Thick Ceiling, Adapter, White
FMASQ4-SC100-BL	Wood, Stone, Tile, 1/2"-1" Thick Ceiling, Adapter, Black
FMASQ4-SC138-WH	Wood, Stone, Tile, 1"-1 3/8" Thick Ceiling, Adapter, White
FMASQ4-SC138-BL	Wood, Stone, Tile, 1"-1 3/8" Thick Ceiling, Adapter, Black
FMASQ4-SC175-WH	Wood, Stone, Tile, 1 3/8"-1 3/4" Thick Ceiling, Adapter, White
FMASQ4-SC175-BL	Wood, Stone, Tile, 1 3/8"-1 3/4" Thick Ceiling, Adapter, Black

Optical Accessories

Cat. #	Description	Cat. #	Description
TIR-TW-V	20° Spot Optic	T746	Med. Green Color Filter
TIR-TW-N	26° Narrow Flood Optic	T7401	Red Dichroic Lens
TIR-TW-F	35° Flood Optic	T7403	Med. Green Dichroic Lens
AF3-10	10° Film*	T7404	Med. Blue Dichroic Lens
AF3-20	20° Film*	T7405	Yellow Dichroic Lens
AF3-30	30° Film*	T7406	Magenta Dichroic Lens
AF3-40	40° Film*	T7411	Blue Green Dichroic Lens
AF3-50	50° Film*	T7416	Daylight Blue Correction Lens
AF3-60x1	60°x1° Film*	T7420	Diffuse Spread Lens
T741	Med. Pink Color Filter	T7422	UV Filter Lens
T742	Warm Red Color Filter	T7477	Prismatic Lens
T743	Daylight Blue Color Filter	T7478	Linear Spread Lens
T744	Med. Blue Color Filter	T7459BL	Hexcell Louver
T745	Med. Amber Color Filter		

*For best results, use with narrow flood optic.

Misc. Accessories

Cat. #	Description
CTA45Q-125	1 1/4" Thick Ceiling Adapter
CTA45Q-163	1 5/8" Thick Ceiling Adapter
CTA45Q-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
EMI-20	20W Emergency Lighting Inverter

To order, specify catalog number.



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BLACK BODY DIMMING & TUNABLE WHITE 700/1000 LUMEN ADJUSTABLE LED IC(9)43TSQ, IC49TSQ, TC(9)49TSQ

Downlight

Deep Downlight Reflector



Self Flanged¹

437SQBHZ-SF
437SQW-SF
437SQHZ-SF
437SQWHZ-SF



Flush Mount²

437SQBHZ-FM
437SQW-FM
437SQHZ-FM
437SQWHZ-FM

Description

Black Haze Reflector
White Reflector
Haze Reflector
Wheat Haze Reflector

Downlight 1 1/4" Pinhole



Self Flanged¹

4337SQ-WH
4337SQ-BL



Flush Mount²

4337SQ-WH-FM
4337SQ-BL-FM

Description

White Trim, Black Alzak® Reflector
Black Trim, Black Alzak® Reflector

Downlight Regressed 1 3/4" Pinhole



Self Flanged¹

4307SQ-WH
4307SQ-BL



Flush Mount²

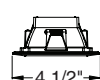
4307SQ-WH-FM
4307SQ-BL-FM

Description

White Trim, Black Alzak® Reflector
Black Trim, Black Alzak® Reflector

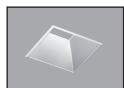
Lensed

Downlight Lensed Trim



Self Flanged¹

4325SQBHZ-SF
4325SQW-SF
4325SQHZ-SF
4325SQWHZ-SF



Flush Mount²

4325SQBHZ-FM
4325SQW-FM
4325SQHZ-FM
4325SQWHZ-FM

Description

Black Haze Reflector
White Haze Reflector
Haze Reflector
Wheat Haze Reflector



Angle-Cut Lensed Trim



Self Flanged¹

4315SQBHZ-SF
4315SQW-SF
4315SQHZ-SF
4315SQWHZ-SF



Flush Mount²

4315SQBHZ-FM
4315SQW-FM
4315SQHZ-FM
4315SQWHZ-FM

Description

Black Haze Reflector
White Haze Reflector
Haze Reflector
Wheat Haze Reflector



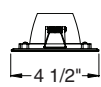
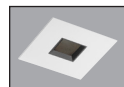
¹**Self Flanged:** For self flanged reflector with optional white painted flange, replace "-SF" suffix with "-SFWH".

²**Flush Mount:** Flush Mount trims must be used with Flush Mount Adapter, ordered separately.

BLACK BODY DIMMING & TUNABLE WHITE 700/1000 LUMEN ADJUSTABLE LED IC(9)43TSQ, IC49TSQ, TC(9)49TSQ

Lensed (continued)

Downlight 1 1/4" Pinhole with Uniformity Lens



Self Flanged¹

43325Q-WH
43325Q-BL

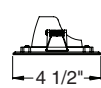
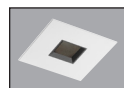
Flush Mount²

43325Q-WH-FM
43325Q-BL-FM

Description

White Trim, Black Alzak® Reflector
Black Trim, Black Alzak® Reflector

Adjustable 1 1/4" Pinhole with Uniformity Lens



Self Flanged¹

43315Q-WH
43315Q-BL

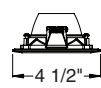
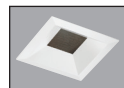
Flush Mount²

43315Q-WH-FM
43315Q-BL-FM

Description

White Trim, Black Alzak® Reflector
Black Trim, Black Alzak® Reflector

Downlight Regressed 1 3/4" Pinhole with Uniformity Lens



Self Flanged¹

43025Q-WH
43025Q-BL

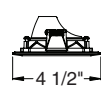
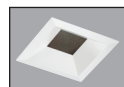
Flush Mount²

43025Q-WH-FM
43025Q-BL-FM

Description

White Trim, Black Alzak® Reflector
Black Trim, Black Alzak® Reflector

Adjustable Regressed 1 3/4" Pinhole with Uniformity Lens



Self Flanged¹

43015Q-WH
43015Q-BL

Flush Mount²

43015Q-WH-FM
43015Q-BL-FM

Description

White Trim, Black Alzak® Reflector
Black Trim, Black Alzak® Reflector

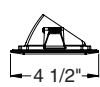
¹**Self Flanged:** For self flanged reflector with optional white painted flange, replace "-SF" suffix with "-SEWH".

²**Flush Mount:** Flush Mount trims must be used with Flush Mount Adapter, ordered separately.

BLACK BODY DIMMING & TUNABLE WHITE 700/1000 LUMEN ADJUSTABLE LED IC(9)43T, IC49T, TC(9)49T

Adjustable Accent

Angle-Cut Reflector



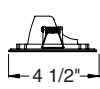
Self Flanged¹
438SQBHZ-SF
438SQW-SF
438SQHZ-SF
438SQWHZ-SF



Flush Mount²
438SQBHZ-FM
438SQW-FM
438SQHZ-FM
438SQWHZ-FM

Description
Black Haze Reflector
White Reflector
Haze Reflector
Wheat Haze Reflector

Adjustable 1 1/4" Pinhole



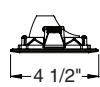
Self Flanged¹
433SQ-WH
433SQ-BL



Flush Mount²
433SQ-WH-FM
433SQ-BL-FM

Description
White Trim, Black Alzak® Reflector
Black Trim, Black Alzak® Reflector

Adjustable Regressed 1 3/4" Pinhole



Self Flanged¹
4308SQ-WH
4308SQ-BL

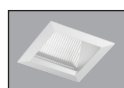


Flush Mount²
4308SQ-WH-FM
4308SQ-BL-FM

Description
White Trim, Black Alzak® Reflector
Black Trim, Black Alzak® Reflector

Wall Wash

Lensed Wall Wash



Self Flanged¹
439SQBHZ-SF
439SQW-SF
439SQHZ-SF
439SQWHZ-SF



Flush Mount²
439SQBHZ-FM
439SQW-FM
439SQHZ-FM
439SQWHZ-FM

Description
Black Haze Reflector
White Haze Reflector
Haze Reflector
Wheat Haze Reflector



Wet Location

¹**Self Flanged:** For self flanged reflector with optional white painted flange, replace "-SF" suffix with "-SFWH".

²**Flush Mount:** Flush Mount trims must be used with Flush Mount Adapter, ordered separately.