



PRODUCT DESCRIPTION

Recessed adjustable LED luminaire produces up to 2000 delivered lumens. Fixture has 45° visual cutoff and features precision geared hot-aiming. Sealed Air-Loc® housing ensures maximum energy savings and controls plenum sound transmission. Available in both IC and Non-IC rated configurations. IC rated luminaires can be used in insulated or non-insulated areas. Non-IC luminaires must be used in non-insulated areas or where insulation is spaced at least 3" from housing.

PRODUCT SPECIFICATIONS

LED Light Engine Consistent fixture to fixture color within 3-step MacAdam ellipse • 2700K, 3000K, 3500K, or 4000K color temperatures are available with 80 CRI minimum • 2700K and 3000K also available with 90 CRI minimum.

Modular Optics Available with 12° Spot, 24° Narrow Flood, 35° Flood and 50° wide flood field interchangeable optics • Additional distributions of 20°, 30°, 40°, 45° and 60° FWHM can be achieved with the use of the diffusing films and spot primary optic • Patented (US Patent 8,950,911) auto-adjusting optic holder maximizes luminaire efficiency by maintaining optimal LED optic position • Accommodates up to three (3) additional 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, ensuring maximum light and low brightness • Black aiming mechanism preserves dark aperture.

Trims Style Trim Ring, Self Flanged and Flush Mount reflectors utilize 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).

LED Driver Seven (7) driver options available to accommodate 120-277V input and multiple control protocols • For a list of compatible dimmers, refer to [ACLXLED3-DIM](#) • Power Factor > 0.9 • Field replaceable from below or above ceiling.

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 locations. Wet location listed with certain trims • Meets energy code Air Leakage requirements per ASTM E283 • ENERGY STAR® Qualified with select trims • IC rated luminaires with 90CRI light engine are certified to high efficacy requirements of California T24 with select color temperatures and trims • IC housings are rated for direct contact with insulation • IC408L and IC412L are compatible with spray foam insulation with an R-Value of 3.7 per inch or less • Union made.

New Construction Mounting Features patented (US Patent 8,038,113) Pro-VI™ bar hanger system, permitting quick placement of housing with 24" on-center joists or suspended ceilings • All fixtures except for IC420L also feature vertically adjustable mounting brackets (butterfly brackets) • Centerline indicators on plaster frame and patented (US Patent 8,277,090) Tru-Line™ Platform featuring +/- 1/2" translation aids fixture alignment after installation, prior to drywall.

Junction Box Rated for 4 No. 12 AWG 90° C through branch circuit conductors and includes (6) 1/2", (1) 3/4", and (4) Non-metallic sheathed cable knock-outs • Push-in electrical connectors for field connections.

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.

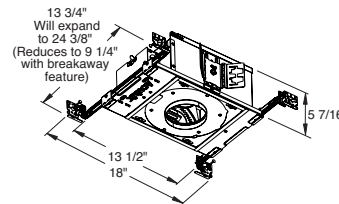
3-1/4" LED RECESSED ADJUSTABLE AND DOWNLIGHT
800/1200/1500/2000 LUMEN

ROUND APERTURE
NEW CONSTRUCTION
**IC/TC420L, IC415L,
IC412L, IC408L**

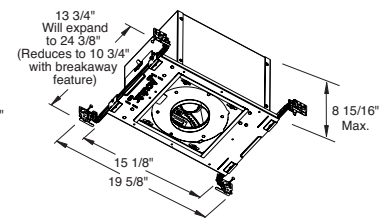


Type	Cat. No.
_____	_____
Project: _____	
Notes: _____	

DIMENSIONS



**IC408L, IC412L,
IC415L, TC420L**



IC420L

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

ELECTRICAL DATA								
Lumen Package	800		1200		1500		2000	
Voltage	120	277	120	277	120	277	120	277
Input Power	9.6W	9.7W	15.1W	15.3W	19.8W	19.8W	27.0W	26.7
Input Current	0.08	0.04	0.13	0.06	0.17	0.08	0.23	0.10
Frequency	50/60Hz		50/60Hz		50/60Hz		50/60Hz	
Power Factor	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9	>0.9

3-1/4" LED RECESSED ADJUSTABLE AND DOWNLIGHT

800/1200/1500/2000 LUMEN

ROUND APERTURE
NEW CONSTRUCTION

**IC/TC420L, IC415L,
IC412L, IC408L**

Ordering Information Housing, trim and accessories each ordered separately

Example: **IC412L-830-N-1**

Series	CRI/Color Temperature	Optic	Driver	Options
IC408L	800 Lumen, IC Rated 827 2700K, 80CRI	S 12° Spot	I 120V, Forward & Reverse Phase Dimming, 5%	CP* Chicago Plenum
IC412L	1200 Lumen, IC Rated 830 3000K, 80CRI	N 24° Narrow Flood	EZ1 120-277V, eldoLED ECoDrive 0-10V Dimming, 1%	N1¹ nLight® dimming pack, 120V
IC415L	1500 Lumen, IC Rated 835 3500K, 80CRI	F 35° Flood	EZB 120-277V, eldoLED SOLOdrive 0-10V Dimming, 0.1%	N2¹ nLight® dimming pack, 277V
IC420L	2000 Lumen, IC Rated 840 4000K, 80CRI	W 50° Wide Flood	L 120-277V, Lutron Hi-Lume 3-Wire Dimming, Ecosystem Compatible, 1%	CPNL^{1,2} nLight® dimming pack and Chicago Plenum rated
TC420L	2000 Lumen, Non-IC Rated 927 2700K, 90CRI 930 3000K, 90CRI		D 120V, Lutron Hi-Lume 2-Wire Dimming, 1%	*Chicago Plenum not available on IC420L
			M 120-277V, DMX512/RDM	¹ Available with eldoLED drivers only
			A 120-277V, DALI Dimming	² nLight® NPS80EZ ships loose for remote mounting

To achieve the desired beam angle (FWHM), specify the following primary LED optic on the luminaire and order the diffusing film from the table below

Desired FWHM	Primary Optic	Film
12°	S	-
20°	S	AF3-10
24°	N	-
30°	S	AF3-20
35°	F	-
40°	S	AF3-30
45°	S	AF3-40
50°	W	-
60°	S	AF3-50
20° x 60°	S	AF3-60x1

Flush Mount Adapters

Cat. #	Description
FMA4	Drywall Ceiling Adapter
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
TIR-ACLX3-SP	12° Spot Optic	T746	Med. Green Color Filter
TIR-ACLX3-NFL	24° Narrow Flood Optic	T7401	Red Dichroic Lens
TIR-ACLX3-FL	35° Flood Optic	T7403	Med. Green Dichroic Lens
TIR-ACLX3-WFL	50° Wide Flood Optic	T7404	Med. Blue Dichroic Lens
AF3-10	10° Film (Use with Spot Optic)	T7405	Yellow Dichroic Lens
AF3-20	20° Film (Use with Spot Optic)	T7406	Magenta Dichroic Lens
AF3-30	30° Film (Use with Spot Optic)	T7411	Blue Green Dichroic Lens
AF3-40	40° Film (Use with Spot Optic)	T7416	Daylight Blue Correction Lens
AF3-50	50° Film (Use with Spot Optic)	T7420	Diffuse Spread Lens
AF3-60x1	60°x1° Film (Use with Spot Optic)	T7421	Uniformity 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		

Product specifications subject to change without notice.

Misc. Accessories

Cat. #	Description
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
EMI-20	20W Emergency Lighting Inverter

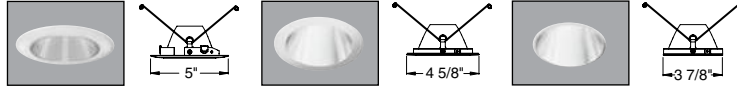
To order, specify catalog number.



3-1/4" LED RECESSED ADJUSTABLE AND DOWNLIGHT IC/TC420L, IC415L, IC412L, IC408L

Downlight Trims

Parabolic Downlight Cone

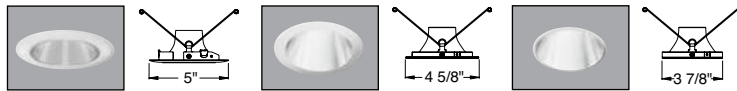


Trim Ring ¹	Self Flanged ²	Flush Mount ³	Description
437NB-ABZ	-	-	Black Alzak® Cone
437NB-SC	-	-	Black Alzak® Cone
437NB-WH	437NB-SF	437NB-FM	Black Alzak® Cone
437NC-WH	437NC-SF	437NC-FM	Clear Alzak® Cone
437NHZ-SC	-	-	Haze Alzak® Cone
437NHZ-WH	437NHZ-SF	437NHZ-FM	Haze Alzak® Cone
437NWHZ-ABZ	-	-	Wheat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

	Construction: Type IC & Non-IC
	CCT/CRI: 827, 830, 835, 840, 930
	Optic: S, N, F, W
	Trim Finish: C, HZ, WHZ

	Construction: Type IC
	CCT/CRI: 927, 930
	Optic: S, N, F, W
	Trim Finish: B, C, HZ, WHZ

Hyperbolic Downlight Reflector

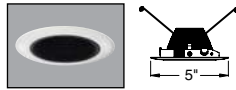


Trim Ring ¹	Self Flanged ²	Flush Mount ³	Description
4017NB-WH	4017NB-SF	4017NB-FM	Black Alzak® Reflector
4017NC-WH	4017NC-SF	4017NC-FM	Clear Alzak® Reflector
4017NHZ-WH	4017NHZ-SF	4017NHZ-FM	Haze Alzak® Reflector
4017NW-WH	4017NW-SF	4017NW-FM	White Alzak® Reflector
4017NWHZ-WH	4017NWHZ-SF	4017NWHZ-FM	Wheat Haze Alzak® Reflector

	Construction: Type IC & Non-IC
	CCT/CRI: 827, 830, 835, 840, 930
	Optic: S, N, F, W
	Trim Finish: C, HZ, WHZ

	Construction: Type IC
	CCT/CRI: 927, 930
	Optic: S, N, F, W
	Trim Finish: C, HZ, WHZ

Deep Downlight Baffle



Trim Ring ¹	Description
434NB-ABZ	Black Baffle
434NB-SC*	Black Baffle
434NB-WH*	Black Baffle
434NW-WH	White Baffle

	Construction: Type IC & Non-IC
	CCT/CRI: 827, 830, 835, 840, 930
	Optic: S, N, F, W
	Trim Finish: W

	Construction: Type IC
	CCT/CRI: 927, 930
	Optic: S, N, F, W
	Trim Finish: W

Downlight 1 1/4" Pinhole



Trim Ring ¹	Flush Mount ²	Description
4337N-ABZ	-	Aged Bronze Trim, Black Alzak® Reflector
4337N-BL	4337N-BL-FM	Black Trim, Black Alzak® Reflector
4337N-SC	-	Satin Chrome Trim, Black Alzak® Reflector
4337N-WH	4337N-WH-FM	White Trim, Black Alzak® Reflector

	Construction: Type IC & Non-IC
	CCT/CRI: 827, 830, 835, 840
	Optic: S, N, F

	Construction: Type IC
	CCT/CRI: 927, 930
	Optic: S, N, F

Downlight Regressed 1 3/4" Pinhole



Trim Ring ¹	Flush Mount ²	Description
4307N-BL	4307N-BL-FM	Black Trim, Black Alzak® Reflector
4307N-WH	4307N-WH-FM	White Trim, Black Alzak® Reflector

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

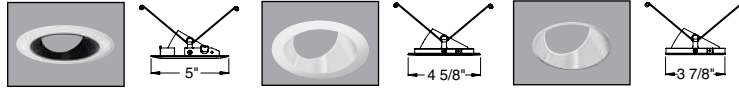
²Self Flanged: For self flanged reflector with optional white painted flange, replace "-SF" suffix with "-SFWH".

³Flush Mount: Flush Mount trims must be used with Flush Mount Adapter, ordered separately.

3-1/4" LED RECESSED ADJUSTABLE AND DOWNLIGHT IC/TC420L, IC415L, IC412L, IC408L

Adjustable Accent

Angle-Cut Cone

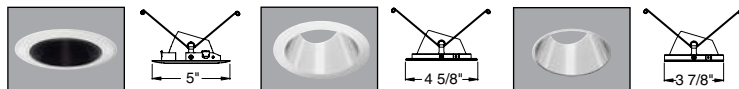


Trim Ring ¹	Self Flanged ²	Flush Mount ³	Description
438NB-ABZ	-	-	Black Alzak® Cone
438NB-SC	-	-	Black Alzak® Cone
438NB-WH	438NB-SF	438NB-FM	Black Alzak® Cone
438NC-WH	438NC-SF	438NC-FM	Clear Alzak® Cone
438NHZ-SC	-	-	Haze Alzak® Cone
438NHZ-WH	438NHZ-SF	438NHZ-FM	Haze Alzak® Cone
438NWHZ-ABZ	-	-	Wheat Haze Alzak® Cone
438NWHZ-WH	438NWHZ-SF	438NWHZ-FM	Wheat Haze Alzak® Cone

	Construction: Type IC & Non-IC
	CCT/CRI: 827, 830, 835, 840, 930
	Optic: S, N, F, W
	Trim Finish: C, HZ, WHZ

	Construction: Type IC
	CCT/CRI: 927, 930
	Optic: S, N, F, W
	Trim Finish: C, HZ, WHZ

20° Angle-Cut Cone

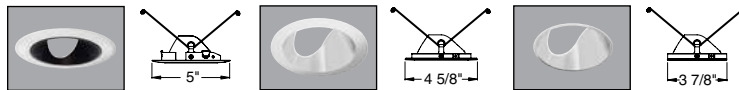


Trim Ring ¹	Self Flanged ²	Flush Mount ³	Description
430NB-WH	430NB-SF	430NB-FM	Black Alzak® Cone
430NC-WH	430NC-SF	430NC-FM	Clear Alzak® Cone
430NHZ-SC	-	-	Haze Alzak® Cone
430NHZ-WH	430NHZ-SF	430NHZ-FM	Haze Alzak® Cone
430NWHZ-ABZ	-	-	Wheat Haze Alzak® Cone
430NWHZ-WH	430NWHZ-SF	430NWHZ-FM	Wheat Haze Alzak® Cone

	Construction: Type IC & Non-IC
	CCT/CRI: 827, 830, 835, 840, 930
	Optic: S, N, F, W
	Trim Finish: C, HZ, WHZ

	Construction: Type IC
	CCT/CRI: 927, 930
	Optic: S, N, F, W
	Trim Finish: C, HZ, WHZ

Slot Angle-Cut Cone

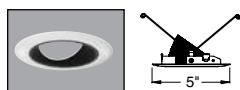


Trim Ring ¹	Self Flanged ²	Flush Mount ³	Description
436NB-ABZ	-	-	Black Alzak® Cone
436NB-SC	-	-	Black Alzak® Cone
436NB-WH	436NB-SF	436NB-FM	Black Alzak® Cone
436NC-WH	436NC-SF	436NC-FM	Clear Alzak® Cone
436NHZ-SC	-	-	Haze Alzak® Cone
436NHZ-WH	436NHZ-SF	436NHZ-FM	Haze Alzak® Cone
436NWHZ-ABZ	-	-	Wheat Haze Alzak® Cone
436NWHZ-WH	436NWHZ-SF	436NWHZ-FM	Wheat Haze Alzak® Cone

	Construction: Type IC & Non-IC
	CCT/CRI: 827, 830, 835, 840, 930
	Optic: S, N, F, W
	Trim Finish: C, HZ, WHZ

	Construction: Type IC
	CCT/CRI: 927, 930
	Optic: S, N, F, W
	Trim Finish: C, HZ, WHZ

Angle-Cut Baffle



Trim Ring ¹	Description
435NB-ABZ	Black Baffle
435NB-SC	Black Baffle
435NB-WH	Black Baffle
435NW-WH	White Baffle

	Construction: Type IC & Non-IC
	CCT/CRI: 827, 830, 835, 840, 930
	Optic: S, N, F, W
	Trim Finish: W

	Construction: Type IC
	CCT/CRI: 927, 930
	Optic: S, N, F, W
	Trim Finish: W

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

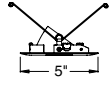
²Self Flanged: For self flanged reflector with optional white painted flange, replace ".SF" suffix with ".SFWH".

³Flush Mount: Flush Mount trims must be used with FMA4 Flush Mount Adapter, ordered separately.

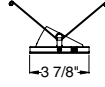
3-1/4" LED RECESSED ADJUSTABLE AND DOWNLIGHT IC/TC420L, IC415L, IC412L, IC408L

Adjustable Accent (continued)

Adjustable 1 1/4" Pinhole



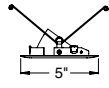
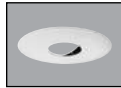
Trim Ring¹
433N-ABZ
433N-BL
433N-SC
433N-WH



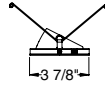
Flush Mount²
-
433N-BL-FM
-
433N-WH-FM

Description
Aged Bronze Trim, Black Alzak® Reflector
Black Trim, Black Alzak® Reflector
Satin Chrome Trim, Black Alzak® Reflector
White Trim, Black Alzak® Reflector

Adjustable 1 3/4" Pinhole



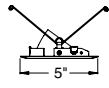
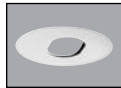
Trim Ring¹
4335N-ABZ
4335N-BL
4335N-SC
4335N-WH



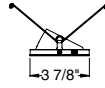
Flush Mount²
-
4335N-BL-FM
-
4335N-WH-FM

Description
Aged Bronze Trim, Black Alzak® Reflector
Black Trim, Black Alzak® Reflector
Satin Chrome Trim, Black Alzak® Reflector
White Trim, Black Alzak® Reflector

Slot Pinhole



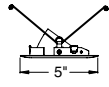
Trim Ring¹
4345N-BL
4345N-WH



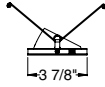
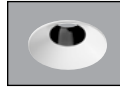
Flush Mount²
4345N-BL-FM
4345N-WH-FM

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

Adjustable Regressed 1 3/4" Pinhole



Trim Ring¹
4308N-BL
4308N-WH



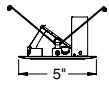
Flush Mount²
4308N-BL-FM
4308N-WH-FM

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

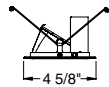
	Construction: Type IC & Non-IC
	CCT/CRI: 827, 830, 835, 840
	Optic: S, N, F
	Construction: Type IC
	CCT/CRI: 927, 930
	Optic: S, N, F

Lensed Wall Wash

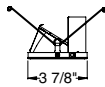
Angle-Cut Lensed Trim



Trim Ring¹
439NB-WH
439NC-WH
439NW-WH
439NHZ-SC
439NHZ-WH
439NWHZ-ABZ
439NWHZ-WH



Self Flanged²
439NB-SF
439NC-SF
439NW-SF
-
439NHZ-SF
-
439NWHZ-SF



Flush Mount²
439NB-FM
439NC-FM
439NW-FM
-
439NHZ-FM
-
439NWHZ-FM

Description
Black Alzak® Cone
Clear Alzak® Cone
White Cone
Haze Alzak® Cone
Haze Alzak® Cone
Wheat Haze Alzak® Cone
Wheat Haze Alzak® Cone



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

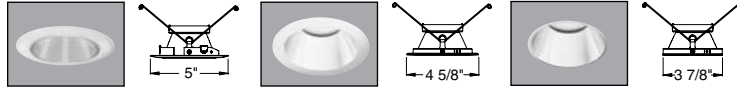
²Self Flanged: For self flanged reflector with optional white painted flange, replace ".SF" suffix with ".5FWH".

³Flush Mount: Flush Mount trims must be used with FMA4 Flush Mount Adapter, ordered separately.

3-1/4" LED RECESSED ADJUSTABLE AND DOWNLIGHT IC/TC420L, IC415L, IC412L, IC408L

Lensed

Deep Lensed Trim



Construction:	Type IC & Non-IC
CCT/CRI:	827, 830, 835, 840
Optic:	S, N, F
Trim Finish:	C, HZ, WHZ

Trim Ring¹

432NB-WH
432NC-WH
432NHZ-SC
432NHZ-WH
432NWHZ-ABZ
432NWHZ-WH

Self Flanged²

432NB-SF
432NC-SF
-
432NHZ-SF
432NWHZ-SF

Flush Mount³

432NB-FM
432NC-FM
-
432NHZ-FM
432NWHZ-FM

Description

Black Alzak® Cone
Clear Alzak® Cone
Haze Alzak® Cone
Haze Alzak® Cone
Wheat Haze Alzak® Cone
Wheat Haze Alzak® Cone

Construction:	Type IC
CCT/CRI:	927, 930
Optic:	S, N, F, W
Trim Finish:	C, HZ, WHZ

Angle-Cut Lensed Trim



Construction:	Type IC & Non-IC
CCT/CRI:	827, 830, 835, 840
Optic:	S, N, F
Trim Finish:	C, HZ, WHZ

Trim Ring¹

431NB-WH
431NC-WH
431NHZ-SC
431NHZ-WH
431NWHZ-ABZ
431NWHZ-WH

Self Flanged²

431NB-SF
431NC-SF
-
431NHZ-SF
431NWHZ-SF

Flush Mount³

431NB-FM
431NC-FM
-
431NHZ-FM
431NWHZ-FM

Description

Black Alzak® Cone
Clear Alzak® Cone
Haze Alzak® Cone
Haze Alzak® Cone
Wheat Haze Alzak® Cone
Wheat Haze Alzak® Cone

Construction:	Type IC
CCT/CRI:	927, 930
Optic:	S, N, F, W
Trim Finish:	C, HZ, WHZ

Downlight 1 1/4" Pinhole with Uniformity Lens



Trim Ring¹

4332N-ABZ
4332N-BL
4332N-SC
4332N-WH

Flush Mount³

-
4332N-BL-FM
-
4332N-WH-FM

Description

Aged Bronze Trim, Black Alzak® Reflector
Black Trim, Black Alzak® Reflector
Satin Chrome Trim, Black Alzak® Reflector
White Trim, Black Alzak® Reflector

Adjustable 1 1/4" Pinhole with Uniformity Lens



Trim Ring¹

4331N-ABZ
4331N-BL
4331N-SC
4331N-WH

Flush Mount³

-
4331N-BL-FM
-
4331N-WH-FM

Description

Aged Bronze Trim, Black Alzak® Reflector
Black Trim, Black Alzak® Reflector
Satin Chrome Trim, Black Alzak® Reflector
White Trim, Black Alzak® Reflector

Downlight Regressed 1 3/4" Pinhole with Uniformity Lens



Trim Ring¹

4302N-BL
4302N-WH

Flush Mount³

4302N-BL-FM
4302N-WH-FM

Description

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

Adjustable Regressed 1 3/4" Pinhole with Uniformity Lens



Trim Ring¹

4301N-BL
4301N-WH

Flush Mount³

4301N-BL-FM
4301N-WH-FM

Description

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

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

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

³Flush Mount: Flush Mount trims must be used with Flush Mount Adapter, ordered separately.

