



## 2" LED RECESSED ADJUSTABLE 700 & 1000 LUMEN

1-1/4" LENSED PINHOLE  
NEW CONSTRUCTION

**IC/TC207LA, IC/TC210LA  
with 2331 Trim**



### PRODUCT DESCRIPTION

Recessed LED adjustable luminaire with 1-1/4" lensed pinhole aperture delivers up to 661 lumens and is available with optical distributions approximating that of MR16 halogen lamps. Fixture has 50° visual cut-off for low aperture brightness. Low profile housing is available in IC rated or non-IC rated configurations.

### PRODUCT SPECIFICATIONS

**LED Light Engine** Consistent fixture to fixture color consistency within a 2-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 field interchangeable optics in 18° Spot, 24° Narrow Flood, 35° Flood, and 45° wide flood distributions.

**Adjustability** Patent pending Acu-Aim™ precision geared hot-aiming achieves 365° rotation, 40° tilt with any ceiling thickness from 1/2" to 1" • Acu-Aim™ translates light engine forward as it is aimed off nadir, ensuring maximum light and low brightness • Black aiming mechanism preserves dark aperture.

**Reflector** Die cast trim in white or black with black oculus • Black shield eliminates visibility into housing.

**Trims Style** Self Flanged and Flush Mount styles are available • For flush mount installations in drywall ceilings, specify the FMA2 adapter • For flush mount installations in solid ceiling materials such as wood, stone, or tile ceilings, no flush mount adapter is required.

**LED Driver** Choice of two drivers to accommodate voltages from 120-277 volts AC at 50/60Hz • Dedicated 120V (-1) driver is dimmable with most incandescent, magnetic low voltage, and electronic low voltage dimmers • Universal Voltage (-U) driver is dimmable with most 0-10V protocol dimmers • For a list of compatible dimmers, refer to [ACLXLED2-DIM](#) • Power Factor > 0.9 • Field replaceable from above or below 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 wet locations • IC rated new construction fixture meets energy code Air Leakage requirements per ASTM E283 • IC rated new construction luminaire is Chicago Plenum (CCEA) approved • Union made.

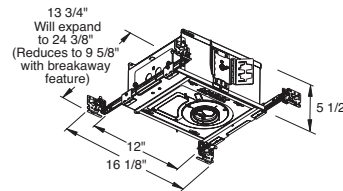
**New Construction Mounting** Features patented (US Patent 8,038,113) Pro-VI™ bar hanger system, permitting quick placement of housing with 24" on-center joists or suspended ceilings • IC rated new construction luminaire also features vertically adjustable mounting brackets (butterfly brackets) • Centerline 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.

**Wiring** IC housing includes (2) 1/2" knockouts in access plate, and is compatible with rigid conduit and flexible supply • Non-IC housings include (2) 1/2" knockouts with pryout slots in junction box and are compatible with flexible electrical supply only • All housings supplied with quick connect electrical connectors.

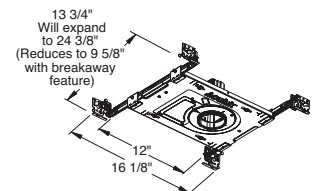
**Ceiling Thickness** 1/2" - 3/4" ceiling standard • For thicker ceilings, order CTA2-120 (.75"-1.20") or CTA2-150 (1.20"-1.50") • Vertical aiming in ceiling 1" to 1 1/2" is reduced from 40° to 25°.

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

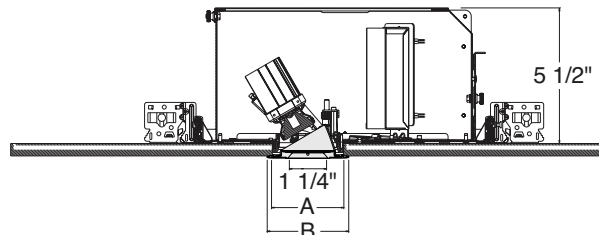
### DIMENSIONS



**IC207LA,  
IC210LA**



**TC207LA,  
TC210LA**



Trim Style	Cutout Size (A)	Trim O.D. (B)
Self Flanged Trims	2-7/8"	3.20"
Flush Mount Trims (Solid Ceiling)	2-7/8"	2.875"
Flush Mount Trims (Drywall Ceiling)	3"	2.875"

Note: An accurate hole saw is recommended for best results.

### ELECTRICAL DATA

Lumen Package	700			1000		
	Dedicated 120V (-1)	Universal Voltage (-U)		Dedicated 120V (-1)	Universal Voltage (-U)	
Voltage	120	120	277	120	120	277
Input Power	10.1	9.6	9.6	14.8	14.8	14.6
Input Current	0.09	0.08	0.04	0.12	0.12	0.06
Frequency	50/60Hz	50/60Hz		50/60Hz	50/60Hz	
Power Factor	0.99	0.99	0.93	0.99	0.99	0.95

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**Ordering Information** Housing, trim and accessories each ordered separately

Example: **IC207LA-830-N-1**

Series	CRI/CCT	Optic	Driver
<b>IC207LA</b> 700 lm Adjustable, IC rated	<b>827</b> 80 CRI, 2700K	<b>S</b> 18° Spot	<b>I</b> 120V, Phase Dimming
<b>TC207LA</b> 700 lm Adjustable, Non-IC	<b>830</b> 80 CRI, 3000K	<b>N</b> 24° Narrow Flood	<b>U</b> 120-277V, 0-10V Dimming
<b>IC210LA</b> 1000 lm Adjustable, IC rated	<b>835</b> 80 CRI, 3500K	<b>F</b> 35° Flood	
<b>TC210LA</b> 1000 lm Adjustable, Non-IC	<b>840</b> 80 CRI, 4000K	<b>W</b> 45° Wide Flood	
	<b>927</b> 90 CRI, 2700K		
	<b>930</b> 90 CRI, 3000K		

Example: **2331BHZ-WH-SF**

Trim/Description		
		
Self Flanged	Flush Mount <sup>1</sup>	Description
<b>2331BHZ-BL-SF</b>	<b>2331BHZ-BL-FM</b>	Black Trim
<b>2331BHZ-WH-SF</b>	<b>2331BHZ-WH-FM</b>	White Trim

<sup>1</sup>Flush Mount trims must be used with Flush Mount Adapter in drywall ceilings, ordered separately.

Product specifications subject to change without notice.

**Accessories**

Cat. #	Description
<b>FMA2</b>	New Construction Flush Mount Adapter for drywall ceilings
<b>CTA2-120</b>	Thick Ceiling Adapter for .75"-1.20" thick ceiling
<b>CTA2-150</b>	Thick Ceiling Adapter for 1.20"-1.50" thick ceiling
<b>TIR-ACLX2-SP</b>	18° Spot Optic
<b>TIR-ACLX2-NFL</b>	24° Narrow Flood Optic
<b>TIR-ACLX2-FL</b>	35° Flood Optic
<b>TIR-ACLX2-WFL</b>	45° Wide Flood Optic
<b>AF2-SPREAD</b>	35mm Linear Spread Optic Film
<b>AF2-DIFFUSION</b>	35mm Diffusion Optic Film
<b>EMI-20</b>	20W Emergency Lighting Inverter



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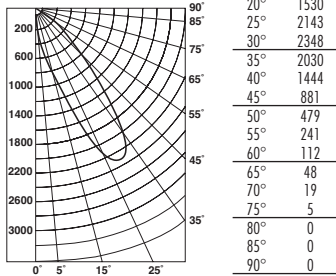
1-1/4" LENSED PINHOLE  
NEW CONSTRUCTION

## IC/TC207LA, IC/TC210LA with 2331 Trim

### SPOT PHOTOMETRIC REPORT

**Test Report:** PT10142101R  
**Catalog No:** IC/TC210LA-830-S-1  
(Aim at 30°)  
with 2331BHZ trim

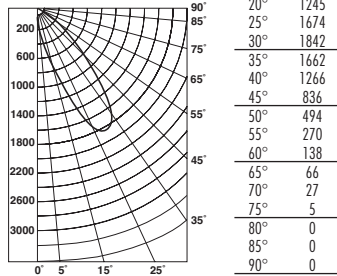
**Watts:** 14.8  
**Lumens:** 560  
**Luminaire LPW:** 38



### NARROW FLOOD PHOTOMETRIC REPORT

**Test Report:** PT10142103R  
**Catalog No:** IC/TC210LA-830-N-1  
(Aim at 30°)  
with 2331BHZ trim

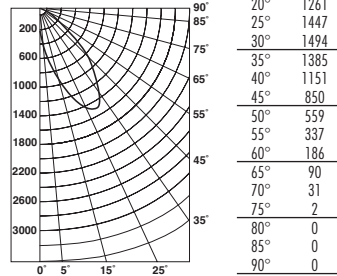
**Watts:** 14.8  
**Lumens:** 528  
**Luminaire LPW:** 36



### FLOOD PHOTOMETRIC REPORT

**Test Report:** PT10142010R  
**Catalog No:** IC/TC210LA-830-F-1  
(Aim at 30°)  
with 2331BHZ trim

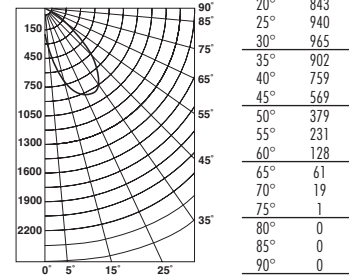
**Watts:** 14.8  
**Lumens:** 661  
**Luminaire LPW:** 45



### WIDE FLOOD PHOTOMETRIC REPORT

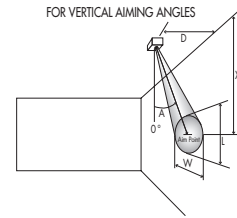
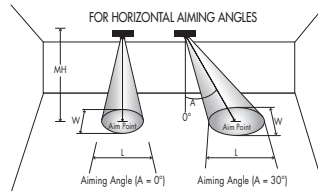
**Test Report:** PT10142106R  
**Catalog No:** IC/TC210LA-830-W-1  
(Aim at 30°)  
with 2331BHZ trim

**Watts:** 14.8  
**Lumens:** 517  
**Luminaire LPW:** 35



### LUMEN OUTPUT MULTIPLIERS

Color Temperature	CRI	Multiplier
2700K	80	0.93
3000K	80	1.00
3500K	80	1.02
4000K	80	1.06
2700K	90	0.71
3000K	90	0.77



**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°).



Beam Type	Beam Spread	CBCP	0°				30°			30°					40°			
			MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W
SPT	18°	2349	4	147	1.8	1.8	95	2.4	2.0	1	73	3.5	4.2	1.9	156	2.4	2.3	1.4
			6	65	2.7	2.7	42	3.6	3.1	3	33	5.2	6.2	2.7	69	3.6	3.5	2.1
			8	37	3.5	3.5	24	4.8	4.1	4	18	6.9	8.3	3.5	39	4.8	4.6	2.8
			10	23	4.4	4.4	15	6.0	5.1	5	12	8.7	10.4	4.4	25	6.0	5.8	3.4
			12	16	5.3	5.3	11	7.2	6.1	6	8	10.4	12.5	5.3	17	7.2	6.9	4.1
NFL	24°	1842	4	115	2.0	2.0	75	2.7	2.3	2	58	3.5	4.8	2.0	122	2.4	2.6	1.5
			6	51	3.0	3.0	33	4.0	3.4	3	26	5.2	7.2	3.0	54	3.6	3.9	2.3
			8	29	3.9	3.9	19	5.4	4.6	4	14	6.9	9.6	3.9	31	4.8	5.2	3.1
			10	18	4.9	4.9	12	6.7	5.7	5	9	8.7	12.1	4.9	20	6.0	6.5	3.8
FL	35°	1494	4	93	2.6	2.6	61	3.5	3.0	2	47	3.5	7.4	2.6	99	2.4	3.6	2.0
			6	42	3.9	3.9	27	5.3	4.4	3	21	5.2	11.2	3.9	44	3.6	5.5	3.0
			8	23	5.1	5.1	15	7.1	5.9	4	12	6.9	14.9	5.1	25	4.8	7.3	4.0
			10	15	6.4	6.4	10	8.9	7.4	5	7	8.7	18.6	6.4	16	6.0	9.1	5.0
WFL	45°	965	4	60	2.8	2.8	39	3.9	3.2	2	30	3.5	8.9	2.8	64	2.4	4.1	2.2
			6	27	4.2	4.2	17	5.9	4.9	3	13	5.2	13.4	4.2	28	3.6	6.2	3.3
			8	15	5.6	5.6	10	7.8	6.5	4	8	6.9	17.8	5.6	16	4.8	8.2	4.4
			10	10	7.0	7.0	6	9.8	8.1	5	5	8.7	22.3	7.0	10	6.0	10.3	5.5
			12	7	8.4	8.4	4	11.7	9.7	6	3	10.4	26.8	8.4	7	7.2	12.4	6.6

