



2" LED RECESSED ADJUSTABLE 700 & 1000 LUMEN

1-3/8" REGRESSED PINHOLE
NEW CONSTRUCTION

**IC/TC207LA, IC/TC210LA
with 2308 Trim**



PRODUCT DESCRIPTION

Recessed LED adjustable luminaire with 1-3/8" regressed pinhole aperture delivers up to 825 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 Black reflector shields the interior of the 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 [ACXLED2-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 damp locations • IC rated new construction fixture meets energy code Air Leakage requirements per ASTM E283 • ENERGY STAR® Qualified with spot, narrow flood, and flood optics • IC rated new construction luminaire is Chicago Plenum (CCEA) approved • Union made.

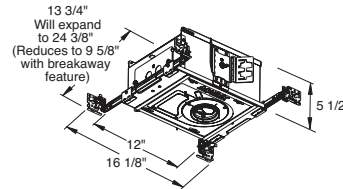
New Construction Mounting Features patented (US Patent 8,038,113) Pro-VI™ bar hanger system, permitting quick placement of housing with 24" on-center joists or suspended ceilings • IC rated new construction luminaire also features vertically adjustable mounting brackets (butterfly brackets) • Centerline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

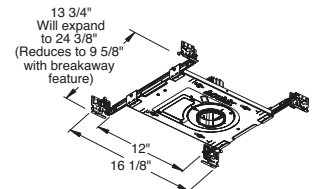
Ceiling Thickness 1/2" - 3/4" ceiling standard • For thicker ceilings, order CTA2-120 (.75"-1.20") or CTA2-150 (1.20"-1.50") • Vertical aiming in ceiling 1" to 1 1/2" is reduced from 40° to 25°.

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

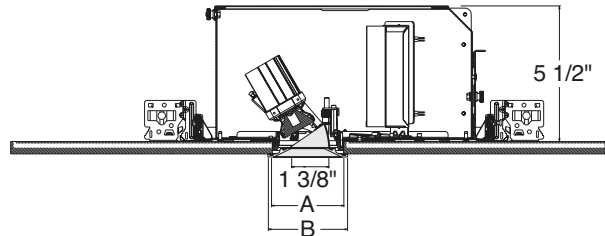
DIMENSIONS



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

Example: **2308BHZ-WH-SF**

Trim/Description		
		
Self Flanged	Flush Mount¹	Description
2308BHZ-BL-SF	2308BHZ-BL-FM	Black Trim
2308BHZ-WH-SF	2308BHZ-WH-FM	White Trim

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


Product specifications subject to change without notice.

Accessories

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

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

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



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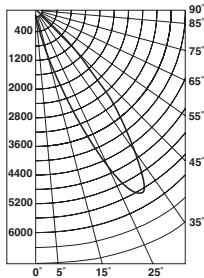
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PHOTOMETRIC REPORT

Test Report: PT02140604
Catalog No: IC/TC210LA-830-S-1
(Aim at 30°)
with 2308BHZ trim

Watts: 14.8
Lumens: 825
Luminaire LPW: 56



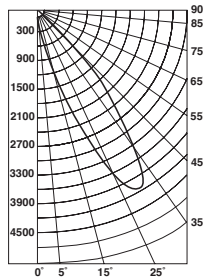
Candlepower Distribution
(Candelas)

Degrees	Vertical Candela
0°	85
5°	169
10°	415
15°	1100
20°	2568
25°	4775
30°	5716
35°	4728
40°	2371
45°	904
50°	287
55°	80
60°	20
65°	4
70°	0
75°	0
80°	0
85°	0
90°	0

PHOTOMETRIC REPORT

Test Report: PT02140608
Catalog No: IC/TC210LA-830-N-1
(Aim at 30°)
with 2308BHZ trim

Watts: 14.8
Lumens: 772
Luminaire LPW: 52



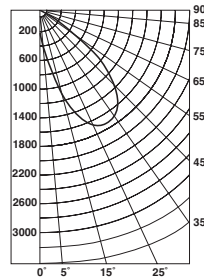
Candlepower Distribution
(Candelas)

Degrees	Vertical Candela
0°	118
5°	245
10°	559
15°	1230
20°	2351
25°	3666
30°	4179
35°	3309
40°	1913
45°	862
50°	347
55°	96
60°	30
65°	11
70°	2
75°	0
80°	0
85°	0
90°	0

PHOTOMETRIC REPORT

Test Report: PT02140612
Catalog No: IC/TC210LA-830-F-1
(Aim at 30°)
with 2308BHZ trim

Watts: 14.8
Lumens: 798
Luminaire LPW: 54



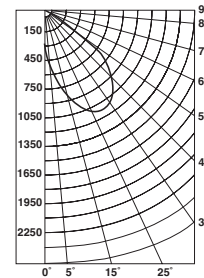
Candlepower Distribution
(Candelas)

Degrees	Vertical Candela
0°	206
5°	394
10°	730
15°	1138
20°	1465
25°	1665
30°	1741
35°	1740
40°	1623
45°	1365
50°	983
55°	449
60°	183
65°	57
70°	2
75°	0
80°	0
85°	0
90°	0

PHOTOMETRIC REPORT

Test Report: PT02140704
Catalog No: IC/TC210LA-830-W-1
(Aim at 30°)
with 2308BHZ trim

Watts: 14.8
Lumens: 684
Luminaire LPW: 46

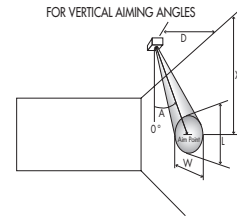
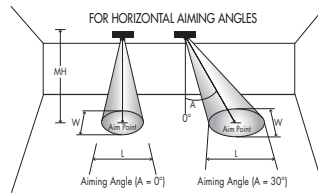


Candlepower Distribution
(Candelas)

Degrees	Vertical Candela
0°	299
5°	465
10°	673
15°	855
20°	981
25°	1070
30°	1125
35°	1113
40°	1044
45°	928
50°	651
55°	301
60°	172
65°	82
70°	3
75°	0
80°	0
85°	0
90°	0

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°	5716	4	357	1.3	1.3	232	1.8	1.5	2	179	3.5	2.9	1.3	380	2.4	1.7	1.0
			6	159	2.0	2.0	103	2.7	2.3	3	79	5.2	1.3	2.0	169	3.6	2.5	1.5
			8	89	2.6	2.6	58	3.5	3.0	4	45	6.9	5.7	2.6	95	4.8	3.3	2.0
			10	57	3.3	3.3	37	4.4	3.8	5	29	8.7	7.2	3.3	61	6.0	4.1	2.6
NFL	24°	4179	4	261	1.5	1.5	170	2.0	1.7	2	131	3.5	3.2	1.5	277	2.4	1.9	1.1
			6	116	2.2	2.2	75	3.0	2.5	3	58	5.2	4.9	2.2	123	3.6	2.8	1.7
			8	65	2.9	2.9	42	3.9	3.4	4	33	6.9	6.5	2.9	69	4.8	3.7	2.3
			10	42	3.7	3.7	27	4.9	4.2	5	21	8.7	8.1	3.7	44	6.0	4.6	2.8
FL	35°	1741	4	109	2.8	2.8	71	4.0	3.3	2	54	3.5	9.1	2.8	116	2.4	4.2	2.2
			6	48	4.3	4.3	31	5.9	4.9	3	24	5.2	13.7	4.3	51	3.6	6.3	3.3
			8	27	5.7	5.7	18	7.9	6.6	4	14	6.9	18.3	5.7	29	4.8	8.4	4.4
			10	17	7.1	7.1	11	9.9	8.2	5	9	8.7	22.8	7.1	18	6.0	10.5	5.5
WFL	45°	1125	4	70	3.2	3.2	46	4.5	3.7	2	35	3.5	12.6	3.2	75	2.4	5.1	2.5
			6	31	4.8	4.8	20	6.8	5.6	3	16	5.2	18.9	4.8	33	3.6	7.6	3.8
			8	18	6.4	6.4	11	9.1	7.4	4	9	6.9	25.2	6.4	19	4.8	10.1	5.0
			10	11	8.1	8.1	7	11.4	9.3	5	6	8.7	31.4	8.1	12	6.0	12.7	6.3
			12	8	9.7	9.7	5	13.6	11.2	6	4	10.4	37.7	9.7	8	7.2	15.2	7.5

