



## 2" LED RECESSED DOWNLIGHT 700 & 1000 LUMEN

1-3/8" LENSED REGRESSED PINHOLE  
NEW CONSTRUCTION

**IC/TC207LD, IC/TC210LD,  
IC/TC207LA, IC/TC210LA  
with 2302 Trim**



### PRODUCT DESCRIPTION

Recessed LED downlight luminaire with 1-3/8" lensed regressed pinhole aperture delivers up to 730 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.

**Reflector** Black reflector with diffuse lens 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 [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 • ENERGY STAR® Qualified with spot, narrow flood, and flood optics • IC rated new construction luminaire is Chicago Plenum (CCEA) approved • Union made.

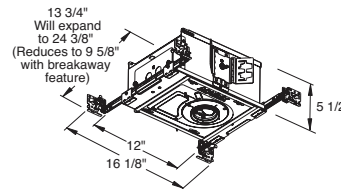
**New Construction Mounting** Features patented (US Patent 8,038,113) Pro-VI™ bar hanger system, permitting quick placement of housing with 24" on-center joists or suspended ceilings • IC rated new construction luminaire also features vertically adjustable mounting brackets (butterfly brackets) • Centerline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

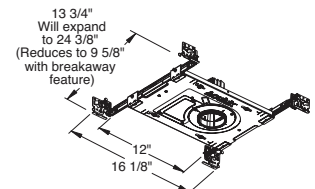
**Ceiling Thickness** 1/2" - 3/4" ceiling standard • For thicker ceilings, order CTA2-120 (.75"-1.20") or CTA2-150 (1.20"-1.50").

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

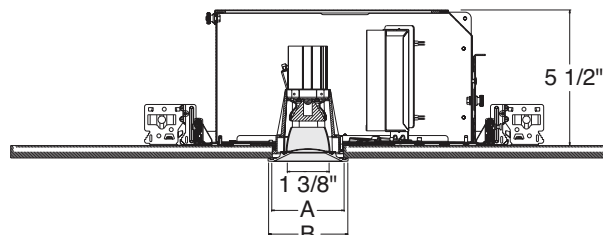
### DIMENSIONS



**IC207LD, IC210LD  
IC207LA, IC210LA**



**TC207LD, TC210LD  
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)	
Driver Option						
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: **TC207LD-830-N-1**

Series	CRI/CCT	Optic	Driver
<b>IC207LD</b> 700 lm Downlight, IC rated	<b>827</b> 80 CRI, 2700K	<b>S</b> 18° Spot <b>N</b> 24° Narrow Flood	<b>I</b> 120V, Phase Dimming
<b>TC207LD</b> 700 lm Downlight, Non-IC	<b>830</b> 80 CRI, 3000K	<b>F</b> 35° Flood	<b>U</b> 120-277V, 0-10V Dimming
<b>IC210LD</b> 1000 lm Downlight, IC rated	<b>835</b> 80 CRI, 3500K	<b>W</b> 45° Wide Flood	
<b>TC210LD</b> 1000 lm Downlight, Non-IC	<b>840</b> 80 CRI, 4000K		
<b>IC207LA</b> 700 lm Adjustable, IC rated	<b>927</b> 90 CRI, 2700K		
<b>TC207LA</b> 700 lm Adjustable, Non-IC	<b>930</b> 90 CRI, 3000K		
<b>IC210LA</b> 1000 lm Adjustable, IC rated			
<b>TC210LA</b> 1000 lm Adjustable, Non-IC			

Example: **2302BHZ-WH-SF**

Trim/Description		
		
<b>Self Flanged</b>	<b>Flush Mount<sup>1</sup></b>	<b>Description</b>
<b>2302BHZ-BL-SF</b>	<b>2302BHZ-BL-FM</b>	Black Trim
<b>2302BHZ-WH-SF</b>	<b>2302BHZ-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

**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

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

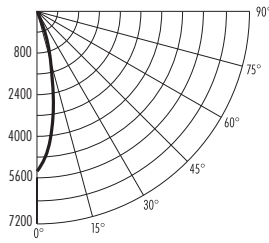


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**PHOTOMETRIC REPORT**

Test Report #: PT02140111  
 Catalog No: IC/TC210LD-830-S-1  
 with 2302BHZ trim  
 Luminaire Spacing Criterion: 0.32  
 Luminaire LPW: 48



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	5483
5	4554
15	983
25	108
35	11
45	2
55	1
65	0
75	0
85	0
90	0

**AVERAGE INITIAL FOOTCANDLES**

Multiple Units (Square Array, 60'x60' room)  
 Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	51	47	45
5.0'	33	30	29
6.0'	23	21	20
7.0'	18	17	16
8.0'	15	13	13
9.0'	11	10	10
10.0'	8	8	7

**INITIAL FOOTCANDLES**

(One Unit, 14.8W, 18.6° Beam)

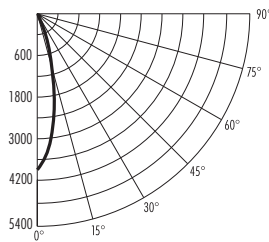
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	152.3	2.0'
8	85.7	2.6'
10	54.8	3.3'
12	38.1	3.9'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	682
55	420
65	415
75	423
85	0

**PHOTOMETRIC REPORT**

Test Report #: PT02140107  
 Catalog No: IC/TC210LD-830-N-1  
 with 2302BHZ trim  
 Luminaire Spacing Criterion: 0.36  
 Luminaire LPW: 45



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	4059
5	3422
15	1038
25	156
35	17
45	3
55	1
65	0
75	0
85	0
90	0

**AVERAGE INITIAL FOOTCANDLES**

Multiple Units (Square Array, 60'x60' room)  
 Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	47	44	41
5.0'	30	28	26
6.0'	21	19	18
7.0'	17	16	15
8.0'	13	12	12
9.0'	10	10	9
10.0'	8	8	7

**INITIAL FOOTCANDLES**

(One Unit, 14.8W, 20.8° Beam)

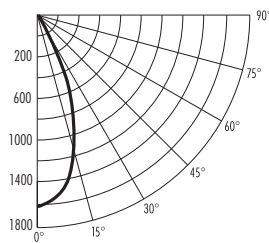
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	112.8	2.2'
8	63.4	2.9'
10	40.6	3.7'
12	28.2	4.4'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	867
55	420
65	415
75	423
85	251

**PHOTOMETRIC REPORT**

Test Report #: PT02140103  
 Catalog No: IC/TC210LD-830-F-1  
 with 2302BHZ trim  
 Luminaire Spacing Criterion: 0.66  
 Luminaire LPW: 45



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	1604
5	1574
15	1167
25	382
35	47
45	4
55	1
65	0
75	0
85	0
90	0

**AVERAGE INITIAL FOOTCANDLES**

Multiple Units (Square Array, 60'x60' room)  
 Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	48	43	39
5.0'	31	28	25
6.0'	21	19	17
7.0'	17	15	14
8.0'	14	12	11
9.0'	10	9	9
10.0'	8	7	6

**INITIAL FOOTCANDLES**

(One Unit, 14.8W, 39.5° Beam)

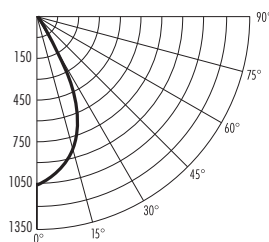
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	44.6	4.3'
8	25.1	5.7'
10	16.0	7.2'
12	11.1	8.6'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	1270
55	420
65	363
75	254
85	0

**PHOTOMETRIC REPORT**

Test Report #: PT02140115  
 Catalog No: IC/TC210LD-830-W-1  
 with 2302BHZ trim  
 Luminaire Spacing Criterion: 0.72  
 Luminaire LPW: 35



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees Vertical	0°
0	1051
5	1023
15	839
25	304
35	69
45	6
55	2
65	1
75	0
85	0
90	0

**AVERAGE INITIAL FOOTCANDLES**

Multiple Units (Square Array, 60'x60' room)  
 Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	37	33	30
5.0'	24	21	19
6.0'	16	15	13
7.0'	13	12	11
8.0'	10	9	8
9.0'	8	7	6
10.0'	6	5	5

**INITIAL FOOTCANDLES**

(One Unit, 14.8W, 42.7° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	29.2	4.7'
8	16.4	6.3'
10	10.5	7.8'
12	.3	9.4'

**LUMINANCE (Average cd/m²)**

Degrees	Average Luminance
45	1921
55	611
65	570
75	508
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT.



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