## G1.5.85

# JUNO

Project:

Fixture Type:

Location:

Contact/Phone:

## **PRODUCT DESCRIPTION**

Dedicated LED new construction housing with integral light engine • Shallow housing allows for fit in 2 x 6 construction • TC housing design for use in noninsulated areas • If installed where insulation is present, the insulation must be pulled back 3" from all sides of the TC housing LED housing is designed to provide 50,000 hours of life and is compatible with many standard Juno trims • 5 year limited warranty on LED components.

## **ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT**

- No harmful ultraviolet or infrared wavelengths
- No lead or mercury
- Comparable light output to 32W compact fluorescent while consuming 20W\*

## **PRODUCT SPECIFICATIONS**

**LED Light Engine** LED array integrated to one piece high purity aluminum, thermally conductive housing provides uninterrupted heat transfer to ensure long life of the LED • Replaceable light engine mounts directly to housing and incorporates the latest generation, high lumen output LED array • LEDs are binned within a 3-Step MacAdam Ellipse exceeding ENERGY STAR® requirements yielding superior fixture to fixture color uniformity • 2700K, 3000K, 3500K or 4100K color temperatures available • 90 CRI minimum.

**Optical System** Computer-optimized reflector design with high reflectance white finish coupled with a high transmission diffusing lens conceals the LEDs and produces uniform aperture luminance • Wide flood distribution shipped as standard with optional optic accessories available and sold separately.

Aesthetic Trim Selections Compatible with wide selection of existing Juno trims • Shadow free, knife edge design blends seamlessly into ceiling.

**LED Driver** Universal voltage driver that accommodates input voltage from 120-277 volts AC at 50/60Hz is standard and is dimmable with the use of most 0-10V dimmers • Power factor > 0.9 at 120V input • Optional Lutron Hi-Lume® A-Series driver accommodates 120-277 volts AC at 50/60Hz • Mounted between the i-box and housing for easy access and cool operation • For a list of compatible dimmers, see <u>JUNOTCLED-DIM</u>.

Emergency Battery Option Battery factory assembled to housing with remote mounted test switch included • Drives LED array for 90 minutes to meet Life Safety Code (NFPA-LSC), National Electrical Code (NEC) and UL requirements • Provides 40% light output in emergency mode.

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

Labels UL listed for U.S. and Canada through-branch wiring, damp locations
Union made • UL and cUL listed • Trim are wet location approved for covered ceiling applications.

**Testing** All reports are based on published industry procedures; field performance may differ from laboratory performance.

Product specifications subject to change without notice.

## **HOUSING FEATURES**

**Housing** Designed for use in TC applications (non-insulated) • Aluminum housing • Housing is vertically adjustable to accommodate up to a 2" ceiling thickness.

**Junction Box** Pre-wired junction box provided with (5)  $\frac{1}{2}$ " and (1)  $\frac{3}{4}$ " knockouts and ground wire, UL listed and cUL listed for through-branch wiring, maximum 8 No. 12 AWG 90° C branch circuit conductors (4 in, 4 out) • Junction box provided with removable access plates • Knockouts equipped with pryout slots.

**Mounting Frame** 16-gauge galvanized steel mounting ring equipped with vertically adjustable mounting brackets that accept <sup>1</sup>/2" conduit or "C" channels (HB-26 or HB-50), linear flat bars (LB-27) or Patented (US Patent D552,969) Real Nail® 3 bar hangers (HB-1).

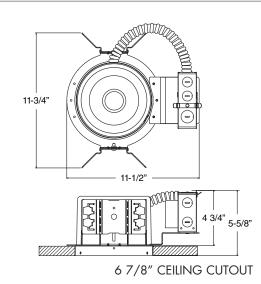
\*Nominal input wattage @ 120V with standard universal voltage driver under stable operating conditions

## 6" TC 1400 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

LENSED TRIMS

TC1422LED4 RECESSED HOUSING

## DIMENSIONS



## ELECTRICAL DATA

## STANDARD UNIVERSAL VOLTAGE DRIVER (-U)

	120V	277V
Input Power	20.2W (+/-5%)	20.7W (+/-5%)
Input Current - Max	0.17A	0.08A
Frequency	50/60Hz	50/60Hz
emi/rfi	FCC Title 47 CFR, Part 15,	FCC Title 47 CFR, Part 15,
	Class A (Commercial)	Class A (Commercial)
Minimum starting temp	-40°C (-40°F)	-40°C (-40°F)

### UNIVERSAL VOLTAGE DRIVER WITH EMERGENCY OPTION (-UBR)

	120V	277V
Input Power	23W (+/-5%)	23.5W (+/-5%)
Input Current - Max	0.22A	0.13A
Frequency	50/60Hz	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15,	FCC Title 47 CFR, Part 15,
	Class A (Commercial)	Class A (Commercial)
Minimum starting temp	0°C (32°F)	0°C (32°F)

#### LUTRON HI-LUME® LED DRIVER (-L)

LUIKON HI-LUMI	LED DRIVER (-L)	
	120V	277V
Input Power	19.8W (+/-5%)	19.8W (+/-5%)
Input Current - Max	0.17A	0.08A
Frequency	50/60Hz	50/60Hz
emi/rfi	FCC Title 47 CFR, Part 15,	FCC Title 47 CFR, Part 15,
	Class A (Commercial)	Class A (Commercial)
Minimum starting temp	0°C (32°F)	0°C (32°F)

### LUTRON HI-LUME® LED DRIVER WITH EMERGENCY OPTION (-LBR)

	120V	277V
Input Power	22.6W (+/-5%)	22.6W (+/-5%)
Input Current - Max	0.21A	0.12A
Frequency	50/60Hz	50/60Hz
emi/rfi	FCC Title 47 CFR, Part 15,	FCC Title 47 CFR, Part 15,
	Class A (Commercial)	Class A (Commercial)
Minimum starting temp	0°C (32°F)	0°C (32°F)



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## 6" TC 1400 LUMEN LED DOWNLIGHT **NEW CONSTRUCTION**

TC1422LED4 RECESSED HOUSING

## **LENSED TRIMS**

Example: TC14	422LED4-27K	-UBR		Examp	le: <b>HB-26</b>			
Catalog No.	Color Temp.	Voltage	Options	Access	sories			
 TC1422LED4	27K 2700K 3K 3000K 35K 3500K 41K 4100K	U Universal Voltage 120-277V (0-10V dimming) L Lutron Hi-Lume 3-wire Dimming Eccosystem® Compatible	BR <sup>1</sup> Emergency Battery Back-up w/Remote Switch CP Chicago Plenum Chicago Plenum is not available with emergency option <sup>1</sup> Not ENERGY STAR® Qualified.	Cat. # HB-1 HB-26 HB-50 LB-27	Description Two 13 1/2" - 25 Real Nail® 3 bar Two 26" C-chan bar hangers Two 50" C-chan bar hangers Two 27" linear bar hangers	hangers nel	Cat. # LEDOPTICG3-M LEDOPTICG3-N LEDOPTICG3-S	Description Medium Flood Optic (50 Narrow Flood Optic (37 Spot Optic (10°)
xample: <b>239</b>	-WH							
		Trim	/Description					
	20-WH 20-PW	Albalite Shower/Closet Light	23300	WH*	White Baffle, Regressed Frostec Dome Lens with			
	21-WH 21-PW	Drop Opal Shower/Closet Light	23308-1	VH*	Reflector Black Baffle, Regressed Frostec Dome Lens with			
O	22-WH	Fresnel			Reflector			
$\bigcirc$	239-WH*	Frosted Lens	6101-A 6101-S 6101-W	*	Beveled Frame - Frosted Dome Len with Reflector	s		
$\bigcirc$	242-WH 242-SC 242-ABZ	Shower Trim Frosted Lens with Clear Center	UL Listed for use in wet loo * Do not use reflector ship Trim Size: 2330 - 7 % "C	ped with trin .D.; 239, 24	12, 243 - 7 <sup>5</sup> ⁄/8″ O.[			
	243-WH*	Decorative Swirled Etche Opal Glass	Trim Finish: ABZ - Classi d (Polycarbonate material sl Note: In Canada when in	iower trim).				ic White
lest Report#: PT1	TRIC REPO 0112101R 22LED4-35K-U	RT CANDLEPC DISTRIBUT (Candelas)		re Array, 6	0'x60' room)	(One Ur	AL FOOTCAN hit, 20.2W, 70.1	

Catalog No: TC1422LED4-35K-U with 239-WH Lensed Trim and Standard Wide Flood Optic Luminaire Spacing Criteria: 1.04 Luminaire LPW: 61

Degrees Vertical

0

5 15 25

35

45 55

65

75

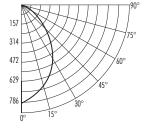
85

90

Multiplier:

27K - 0.93 3K - 0.97

41K - 1.02



EPOWER BUTION		E INITIAL its (Square Ar		
s)	Ceiling 809	%, Wall 50%	, Floor 20	)%
	Spacing	RCR1	RCR3	
<u>0°</u>	4.0'	82	66	
786	5.0'	53	42	
775	6.0'	37	29	
713	7.0'	30	24	
582	8.0'	23	19	
	9.0'	18	14	
391	10.0'	13	11	
230				
135	ZONAL	LUMEN SU	IMMA	RY
81	Zone	Lumens	%Lamp	%
44	0-30°	539	N/A	
11	0-40°	784	N/A	
0	0-60°	1088	N/A	
27K - 0.93	0-90°	1229	N/A	1

(One Unit, 20.2W, 70.		
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	49.1	5.6
6	21.8	8.4
8	12.3	11.2
10	7.9	14.0

Degrees	Average O <sup>e</sup> Luminance	
45	17822	
55	12845	
65	10552	
75	9364	
85	6674	

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.

RCR5

%Fixture

43.9

63.8

88.5

100.0

