JUNO

Project:

Fixture Type:

Location:

Contact/Phone:

5" TC 1400 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

TC1420LED4 RECESSED HOUSING

LENSED TRIMS

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 non-insulated 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 wall box 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 j-box and housing for easy access and cool operation • For a list of compatible dimmers, see JUNOTCLED-DIM.

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.

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

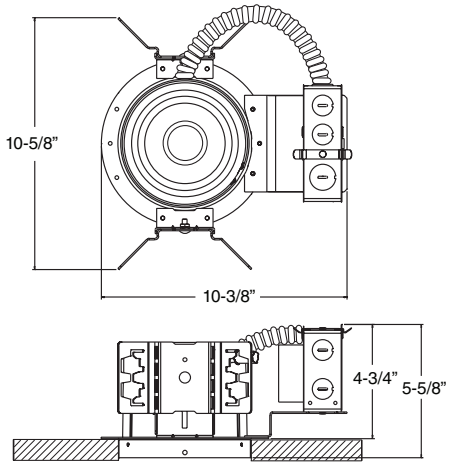
Housing Designed for use in TC applications (non-insulated) • Aluminum housing • Housing is vertically adjustable to accommodate up to a 2" ceiling thickness.

Junction Box Pre-wired junction box provided with (5) ½" and (1) ¾" 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 ½" 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

DIMENSIONS



5 5/8" CEILING CUTOUT

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, Class A (Commercial)	FCC Title 47 CFR, Part 15, 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, Class A (Commercial)	FCC Title 47 CFR, Part 15, Class A (Commercial)
Minimum starting temp	0°C (32°F)	0°C (32°F)

LUTRON HI-LUME® 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, Class A (Commercial)	FCC Title 47 CFR, Part 15, 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, Class A (Commercial)	FCC Title 47 CFR, Part 15, Class A (Commercial)
Minimum starting temp	0°C (32°F)	0°C (32°F)

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ORDERING INFORMATION: Housing, trim and accessories each ordered separately.

Example: **TC1420LED4-27K-UBR**

Catalog No.	Color Temp.	Voltage	Options
TC1420LED4	**27K** 2700K **3K** 3000K **35K** 3500K **41K** 4100K	**U** Universal Voltage 120-277V (0-10V dimming) **L** Lutron Hi-Lume 3-wire Dimming Ecosystem® Compatible	**BR**[1] Emergency Battery Back-up w/Remote Switch **CP** Chicago Plenum Chicago Plenum is not available with emergency option

Notes: [1] Not ENERGY STAR® Qualified.

Example: **HB-26**

Accessories

Cat. #	Description
HB-1	Two 13 1/2" - 25" Real Nail® 3 bar hangers
HB-26	Two 26" C-channel bar hangers
HB-50	Two 50" C-channel bar hangers
LB-27	Two 27" linear bar hangers

Cat. #	Description
LEDOPTICG3-M	Medium Flood Optic (50°)
LEDOPTICG3-N	Narrow Flood Optic (37°)
LEDOPTICG3-S	Spot Optic (10°)

Example: **2130W-WH**

Trim/Description

210N-WH*
210N-SC*
210N-ABZ* Flat Glass Shower Trim

212N-WH*
212N-SC*
212N-ABZ* Frosted Lens with Clear Center

2130W-WH* White Baffle Regressed Frosted Dome Lens
2130B-WH * Black Baffle Regressed Frosted Dome Lens

5101-ABZ*
5101-SC*
5101-WH* Beveled Frame - Frosted Dome Lens

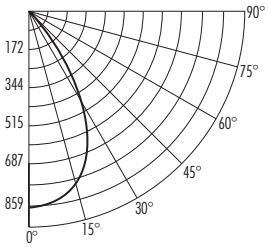
UL Listed for use in wet location.
* Do not use reflector shipped with trim for LED housing.

Trim Size: 210, 212, 2130 - 6 1/4" O.D.; 5101 - 6 1/2" O.D.
Trim Finish: ABZ - Classic Aged Bronze, SC - Satin Chrome, WH - White

Note: In Canada when insulation is present, Type IC fixtures must be used.

PHOTOMETRIC REPORT

Test Report#: PT10112703R
Catalog No: TC1420LED4-35K-U with 210-WH Lensed Trim and Standard Wide Flood Optic
Luminaire Spacing Criteria: 0.92
Luminaire LPW: 49



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	859
5	850
15	759
25	564
35	299
45	146
55	77
65	43
75	22
85	5
90	0
Multiplier:	27K - 0.93 3K - 0.97 41K - 1.02

AVERAGE INITIAL FOOTCANDLES

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

Spacing	RCR1	RCR3	RCR5
4.0'	67	56	47
5.0'	43	36	30
6.0'	30	25	21
7.0'	24	20	17
8.0'	19	16	13
9.0'	15	12	10
10.0'	11	9	8

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	547	N/A	54.8
0-40°	738	N/A	73.9
0-60°	925	N/A	92.7
0-90°	998	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 20.2W, 59.9° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	53.7	4.6
6	23.9	6.9
8	13.4	9.2
10	8.6	11.5

LUMINANCE (Average cd/m²)

Degrees	Average 0° Luminance
45	16261
55	10613
65	8002
75	6795
85	4656

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.

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