

JUNO®

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

6" TC 900 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

TC922LEDG4 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 26W compact fluorescent while consuming only 18W*

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 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 50% 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

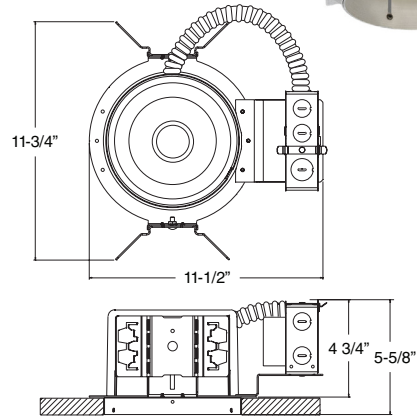
Housing Designed for use in TC applications (non-insulated) • Aluminum housing • Housing is vertically adjustable to accommodate up to a 2" ceiling thickness.

Junction Box Pre-wired junction box provided with (5) 1/2" and (1) 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 1/2" conduit or "C" channels (HB-26 or HB-50), linear flat bars (LB-27) or Real Nail® 3 bar hangers (HB-1).

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

DIMENSIONS



6 7/8" CEILING CUTOUT



ELECTRICAL DATA

STANDARD UNIVERSAL VOLTAGE DRIVER (-U)

	120V	277V
Input Power	18W (+/-5%)	18W (+/-5%)
Input Current - Max	0.15A	0.07A
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	21.3W (+/-5%)	21.3W (+/-5%)
Input Current - Max	0.33A	0.30A
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	17.8W (+/-5%)	17.8W (+/-5%)
Input Current - Max	0.15A	0.06A
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	21W (+/-5%)	21W (+/-5%)
Input Current - Max	0.33A	0.29A
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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TC922LEDG4 RECESSED HOUSING LENSED TRIMS










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

Example: **TC922LEDG4-27K-UBR**

Example: **HB-26**

Catalog No.	Color Temp.	Voltage	Options	Accessories	LED Optics
TC922LEDG4	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 Emergency Battery Back-up w/ Remote Switch CP Chicago Plenum Chicago Plenum is not available with emergency option	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")

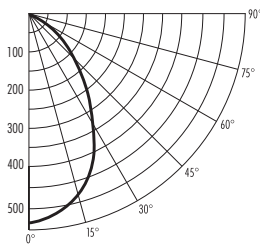
Example: **2330W-WH**

Trim/Description	
 20-WH 20-PW	Albalite Shower/Closet Light
 21-WH 21-PW	Drop Opal Shower/Closet Light
 22-WH	Fresnel
 239-WH *	Frosted Lens
 242-WH 242-SC 242-ABZ	Shower Trim Frosted Lens with Clear Center
 243-WH *	Decorative Swirled Etched Opal Glass
 2330W-WH *	White Baffle, Regressed Frosted Dome Lens with Reflector
 2330B-WH *	Black Baffle, Regressed Frosted Dome Lens with Reflector
 6101-ABZ * 6101-SC * 6101-WH *	Beveled Frame - Frosted Dome Lens with Reflector

UL Listed for use in wet location.
 * Do not use reflector shipped with trim for LED housing.
 Trim Size: 2330 - 7 3/8" O.D.; 239, 242, 243 - 7 5/8" O.D.; 6101 - 7 3/4" O.D.; 20, 21, 22 - 8" O.D.
 Trim Finish: ABZ - Classic Aged Bronze, SC - Satin Chrome, WH - White, PW - Plastic White (Polycarbonate material shower trim).
 Note: In Canada when insulation is present, Type IC fixtures must be used.

PHOTOMETRIC REPORT

Test Report #: PT10111804R
 Catalog No: TC922LEDG4-35K
 with 239-WH Trim and Standard Wide Flood Optic
 Luminaire Spacing Criterion: 1.02
 Luminaire LPW: 48



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Vertical	0°
0	543	
5	536	
15	493	
25	405	
35	276	
45	161	
55	95	
65	56	
75	32	
85	7	
90	0	

Multiplier: 27K - 0.93
 3K - 0.99
 41K - 1.01

AVERAGE INITIAL FOOTCANDLES

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

Spacing	RCR1	RCR3	RCR5
4.0'	57	46	38
5.0'	37	29	24
6.0'	25	20	17
7.0'	21	17	14
8.0'	16	13	11
9.0'	12	10	8
10.0'	9	7	6

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	374	N/A	43.6
0-40°	546	N/A	63.7
0-60°	758	N/A	88.5
0-90°	857	N/A	100.0

INITIAL FOOTCANDLES (One Unit, 17.8W, 70.8° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	33.9	5.7'
6	15.1	8.5'
8	8.5	11.4'
10	5.4	14.2'

LUMINANCE (Average cd/m²)

Degrees	Average 0° Lumiance
45	12472
55	9035
65	7314
75	6674
85	4173

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.

