

# JUNO®

Project: \_\_\_\_\_

Fixture Type: \_\_\_\_\_

Location: \_\_\_\_\_

Contact/Phone: \_\_\_\_\_

## 5" TC 900 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

### TC920LEDG4 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 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 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.

**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

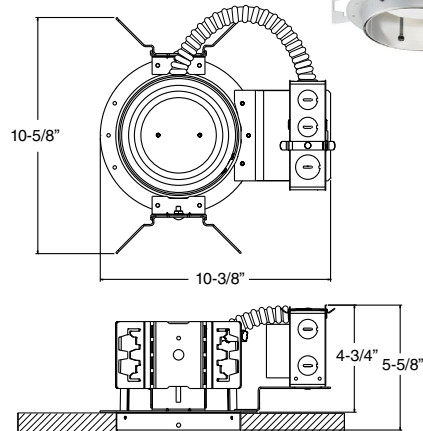
**Housing** Designed for use in TC applications (non-insulated) • Aluminum housing • Housing is vertically adjustable to accommodate up to a 2" ceiling thickness.

**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



5 5/8" 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)

# 5" TC 900 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

## TC920LEDG4 RECESSED HOUSING LENSED TRIMS

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

Example: **TC920LEDG4-27K-UBR**

Example: **2130W-WH**

Catalog No.	Color Temp.	Voltage	Options
<b>TC920LEDG4</b>	<b>27K</b> 2700K <b>3K</b> 3000K <b>35K</b> 3500K <b>41K</b> 4100K	<b>U</b> Universal Voltage 120-277V (0-10V dimming) <b>L</b> Lutron Hi-Lume 3-wire Dimming Ecosystem® Compatible	<b>BR</b> Emergency Battery Back-up w/ Remote Switch <b>CP</b> Chicago Plenum Chicago Plenum is not available with emergency option

Example: **HB-26**




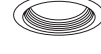

**Accessories**

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

**LED Optics**

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

**Trim/Description**

-  **210N-WH \***  
**210N-SC \*** Flat Glass Shower Trim  
**210N-ABZ \***
-  **212N-WH \***  
**212N-SC \*** Frosted Lens with Clear Center  
**212N-ABZ \***
-  **2130W-WH \*** White Baffle Regressed Frosted Dome Lens
-  **2130B-WH \*** Black Baffle Regressed Frosted Dome Lens
-  **5101-ABZ \*** Beveled Frame -  
**5101-SC \*** Frosted Dome Lens  
**5101-WH \***

UL Listed for use in wet location.

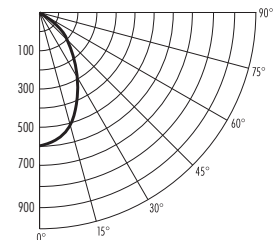
\* Do not use reflector shipped with trim for LED housing.

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 #: PT10112502R  
Catalog No: TC920LEDG4-35K-U  
with 210-WH Trim and Standard Wide Flood Optic  
Luminaire Spacing Criterion: 0.92  
Luminaire LPW: 39



**CANDLEPOWER DISTRIBUTION (Candelas)**

Degrees	Vertical	0°
0	599	
5	589	
15	526	
25	388	
35	208	
45	101	
55	53	
65	29	
75	14	
85	3	
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'	47	39	33
5.0'	30	25	21
6.0'	21	17	15
7.0'	17	14	12
8.0'	13	11	9
9.0'	10	8	7
10.0'	7	6	5

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixture
0-30°	378	N/A	54.9
0-40°	511	N/A	74.1
0-60°	641	N/A	92.9
0-90°	690	N/A	100.0

**INITIAL FOOTCANDLES (One Unit, 17.8W, 59.6° Beam)**

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	37.4	4.6'
6	16.6	6.9'
8	9.4	9.2'
10	6.0	11.5'

**LUMINANCE (Average cd/m²)**

Degrees	Average 0° Luminance
45	11295
55	7294
65	5399
75	4408
85	2909

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.

