# JUNO

G1	.4.8	39

Project:	
Fixture Type:	

Location:

Contact/Phone:

# 5" TC 2000 LUMEN LED DOWNLIGHT NEW CONSTRUCTION TC20LED (G4 20LM) RECESSED HOUSING

## **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 two 26W or one 57W compact fluorescent, while consuming 26W\*

## **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 4000K 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 (>70° typical) 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 drivers that accommodate input voltage from 120-277 volts AC at 50/60Hz are available and 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 24% 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.

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.

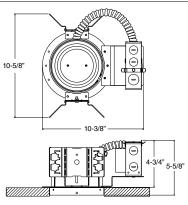
**Mounting Frame** 16-gauge galvanized steel mounting ring equipped with vertically adjustable mounting brackets that accept  $\frac{1}{2}$ " conduit or "C" channels (HB26 or HB50), linear flat bars (LB27) or Patented (US Patent D552,969) Real Nail® 3 bar hangers (HB1).

 $^{*}\mbox{Nominal}$  input wattage with universal voltage driver under stable operating conditions



LENSED TRIMS

### DIMENSIONS



5 5/8" CEILING CUTOUT

## ELECTRICAL DATA

120V	277V
(MVOLT EZ10, MVOLT ZT10, MV	OLT EZ1 and MVOLT ZT1)
STANDARD UNIVERSAL VOLTAG	e driver

	1200	2// •
ut Power	25.1W (+/-5%)	25.6W (+/-5%)
ut Current - Max	0.21A	0.10A
quency	50/60Hz	50/60Hz
I/RFI	FCC Title 47 CFR, Part 15,	FCC Title 47 CFR, Part 15,
	Class B (residential)	Class B (residential)
nimum starting temp	-20°C (-40°F)	-20°C (-40°F)
I/RFI	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, F Class B (residen

#### UNIVERSAL VOLTAGE DRIVER WITH EMERGENCY OPTION (MVOLT ZT10 BR, EZ10 BR, ZT1 BR and EZ1 BR)

	120V	277V
Input Power	27.8W (+/-5%)	28.3W (+/-5%)
Input Current - Max	0.24A	0.11A
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 (MVOLT ECOD)

	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)

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# LENSED TRIMS

A+ Capable options indicated by this color background

#### ORDERING INFORMATION Housing and trim can be ordered together or separate, but will always ship separately.

Example: TC20LED G4 20LM 27K 90CRI MVOLT ZT BR

Series		Generation Lumens		Color Temperature		CRI Voltage/Drive		Voltage/Drive	r		
TC20LED	5" LED Downlight Non-IC Housing	G4	Generation 4	20LM	2000 Nominal Lumens	27K	2700K	90CRI	90+ CRI	MVOLT ZT10	Multi-Volt (120-277), 0-10V, 10% dim
						30K	3000K			MVOLT ZT1	Multi-Volt (120-277), 0-10V, 1% dim
						35K	3500K			MVOLT EZ10	Multi-Volt (120-277), eldoLED 0-10V, 10% dim
							<b>40K</b> 4000K			MVOLT EZ1	Multi-Volt (120-277), eldoLED 0-10V, 1% dim
										MVOLT ECOD	Multi-Volt (120-277), Lutron Hi-Lume EcoSystem, 1% Dimming

Emer	gency Battery	Terri	tory
BR	Emergency Battery	CP	Chicago Plenum

icago Plenum Note: Chicago Ple

Note: Chicago Plenum (CP) is not available with emergency option (BR) Note: Lutron driver (MVOLT ECOD) is not available with emergency battery pack (BR)

#### Trim/Description



210N WH \* 5" Lensed Flat Glass Shower Trim - White



212N WH \* 5" Lensed Frosted Lens with Clear Center Trim - White



VH \* 5" Lensed Baffle with Regressed Frosted Dome Lens Trim - White Baffle, White Trim Ring
 H \* 5" Lensed Baffle with Regressed Frosted Dome Lens Trim - Black Baffle, Black Trim Ring

UL Listed for use in wet location.

 $^{\star}$  Do not use reflector shipped with trim for LED housing.

Trim Size: 210, 212, 2130 - 6 1/4" O.D.

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

ZIRLOG JUNO IC housings meet IECC Energy Code requirements per ASTM E283.

Air-Loc® rated trims are pre-gasketed for minimum air leakage with IC housings.

#### Accesories (ordered separately)

Catalog Number	Description
HB1	Two 13 1/2″ - 25″ Real Nail® 3 bar hangers
HB26	Two 26" C-channel bar hangers
HB50	Two 50" C-channel bar hangers
LB27	Two 27″ linear bar hangers
LEDOPTICG3 MFL	Medium Flood Optic (50°)
LEDOPTICG3 NFL	Narrow Flood Optic (37°)
LEDOPTICG3 SP	Spot Optic (10°)

To order, specify catalog number.

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#### **PHOTOMETRICS**

PHOTOMETRIC REPORT Test Report#: PT08152705R		LEPOWER IBUTION	AVERAGE INITIAL FOOTCANDLES Multiple Units (Square Array, 60'x60' room)				INITIAL FOOTCANDLES (One Unit, 25.1W, 60.5° Beam)		
Catalog No: TC20LED G4 20LM 35K 90CRI	(Candela	s)	Ceiling 80	%, Wall 50%	, Floor 20	%	Distance to	Footcandles	Beam
MVOLT with 210 WH Lensed Trim and Standard	Degrees		Spacing	RCR1	RCR3	RCR5	Illuminated Plane (Feet)	Beam Center	Diameter
Wide Flood Optic	Vertical	0°	4.0'	95	79	68	4	76.6	4.7
Luminaire Spacing Criteria: 0.94	0	1226	5.0'	61	51	43	6	34.1	7.0
Luminaire LPW: 56	5	1214	6.0'	42	35	30	8	19.2	9.3
₩ <u></u>	16	1081	7.0'	34	28	24	10	12.3	11.7
	15		8.0'	27	22	19			
242	25	814	9.0'	21	17	15		eraae cd/m²)	
101 HXXX / / 775°	35	426	10.0'	15	13	11		Averag	<u>ه</u> ۵۰
484	45	194	1010				Degrees	Lumino	
726 60°	55	105	ZONAL	LUMEN S	SUMM/	ARY	45	3244	
HXX/	65	60	Zone	Lumens	%Lamp	%Fixture	55	2170	
968 45°	75	30	0-30°	785	N/A	55.9	65	1670	
	85	8	0-40°	1055	N/A	75.1	75	1368	3
1209 30°		0	0-60°	1303	N/A	92.8	85	1141	6
0° 15°	90	I	0-90°	1405	N/A	100.0			
0	Multiplier:	27K - 0.93	0-70	1405	N/A	100.0			
		30K - 0.97							
		40K - 1.02							

Fixtures tested to IES recommended standard for solid state lighting per UM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.