JUNO

Project:

Fixture Type:

Location:

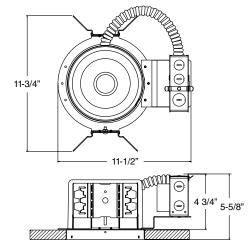
Contact/Phone:

6" TC 2000 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

TC22LED (G4 20LM) RECESSED HOUSING

🛾 🚰 TOPEN TRIMS

DIMENSIONS



6 7/8" CEILING CUTOUT

ELECTRICAL DATA STANDARD UNIVERSAL VOLTAGE DRIVER

(MVOLI EZ10, MVOLI ZI10, MVOLI EZ1 and MVOLI ZI1)				
	120V	277V		
Input Power	25.1W (+/-5%)	25.6W (+/-5%)		
Input Current - Max	0.21A	0.10A		
Frequency	50/60Hz	50/60Hz		
EMI/RFI	FCC Title 47 CFR, Part 15,	FCC Title 47 CFR, Part 15,		
	Class B (residential)	Class B (residential)		
Minimum starting temp	-20°C (-40°F)	-20°C (-40°F)		

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, 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 (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)

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 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 • Deep regression of lens produces a low glare, efficient system that can produce over 2000 lumens with select trims using less than 26W* • 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 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 <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 24% light output in emergency mode.

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

Labels ENERGY STAR® Certified when used with select baffle and cone trims • 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 ½" 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

ScuityBrands.
1300 S. Wolf Road • Des Plaines, IL 60018 • Phone 1-800-705-SERV (7378) • Visit us at www.acuitybrands.com/junorecessed
Printed in U.S.A. ©2017-2020 Acuity Brands Lighting, Inc. Rev. 09/15/20

6" TC 2000 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

TC22LED (G4 20LM) RECESSED HOUSING

OPEN 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: TC22LED G4 20LM 27K 90CRI MVOLT ZT BR

Series		Gener	ration	Lumens		Color	Temperature	CRI		Voltage/Drive	
TC22LED	6" LED Downlight Non-IC Rated	G4	Generation 4	20LM	2000 Nominal Lumens	27K	2700K	90CRI	90+ CRI	MVOLT ZT10	Multi-Volt (120-277), 0-10V, 10% dim
	Housing					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
						40K	4000K			MVOLT EZ 1	Multi-Volt (120-277), eldoLED 0-10V, 1% dim
										MVOLT ECOD [†]	Multi-Volt (120-277), Lutron Hi-Lume EcoSystem, 1% Dimming

Emerg	gency Battery	Territory		
BR⁺	Emergency Battery	CP	Chicago Plenum	

†: MVOLT ECOD and BR Emergency Battery not ENERGY STAR® certified 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

Contraction of the second seco	24 WWH 24 BWH ¹ 24 BSC ¹ 24 BBRZ ¹ 24 BBL ¹	6" Downlight Tapered Baffle Trim - White Baffle, White Trim Ring 6" Downlight Tapered Baffle Trim - Black Baffle, White Trim Ring 6" Downlight Tapered Baffle Trim - Black Baffle, Satin Chrome Trim Ring 6" Downlight Tapered Baffle Trim - Black Baffle, Bronze Trim Ring 6" Downlight Tapered Baffle Trim - Black Baffle, Black Trim Ring
	27 BWH ¹ 27 CWH 27 GWH 27 HZWH 27 PTSC 27 WHZBRZ 27 WHZWH 27 WWH	6" Downlight Tapered Cone Trim - Black Cone, White Trim Ring 6" Downlight Tapered Cone Trim - Clear Alzak® Cone, White Ring 6" Downlight Tapered Cone Trim - Gold Cone, White Trim Ring 6" Downlight Tapered Cone Trim - Haze Cone, White Trim Ring 6" Downlight Tapered Cone Trim - Pewter Cone, Satin Chrome Trim Ring 6" Downlight Tapered Cone Trim - Wheat Haze Cone, Bronze Trim Ring 6" Downlight Tapered Cone Trim - Wheat Haze Cone, White Trim Ring 6" Downlight Tapered Cone Trim - Wheat Haze Cone, White Trim Ring 6" Downlight Tapered Cone Trim - Wheat Haze Cone, White Trim Ring 6" Downlight Tapered Cone Trim - Wheat Haze Cone, White Trim Ring
	9024 WWH	6" Decorative Octogonal Trim - White, White Trim Ring
	9324 SC	6" Decorative Luminous Disc Frosted Trim - Satin Chrome
	9524 SC	6" Decorative Metal Band Trim - Satin Chrome
	9702	6" Decorative Luminous Collar Frosted Trim - Luminous Collar (Frosted)

Trim Size: 24, 27, 9324, 9524 - 7 5/8" 0.D.; 9702 - 7 3/4" 0.D.; 9024 - 8" 0.D. Alzak is a registered trademark of Alcoa Corp. Note: In Canada when insulation is present, Type IC fixtures must be used.

Notes: ¹ Not ENERGY STAR[®] Certified. ² Trim ring compatible with 24 and 27 trims.

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°)	
TR6 BRZ ²	6″ Trim Ring - Bronze	
TR6 BL ²	6" Trim Ring - Black	
TR6 SC ²	6" Trim Ring - Satin Chrome	
TR6 WH ²	6" Trim Ring - White	

. .

6" TC 2000 LUMEN LED DOWNLIGHT **NEW CONSTRUCTION**

TC22LED (G4 20LM) RECESSED HOUSING

OPEN TRIMS

PHOTOMETRICS

262

516

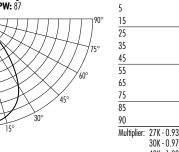
770

1024

1278

PHOTOMETRIC REPORT

Test Report#: PT09151102R Catalog No: TC22LED G4 20LM 35K 90CRI MVOLT with 24 WWH White Baffle Trim and Standard Wide Flood Optic Luminaire Spacing Criteria: 1.12 Lumingire LPW: 87



(Candelas)

0°

1405

1397

1311

1132

877

387

169

88

54

14

0

٥°

2319

2173

1650

1294

926

442

140

29

0

0

0

30K - 0.97 40K - 1.02

CANDLEPOWER

DISTRIBUTION

(Candelas)

Degrees

Vertical

Ō

5

15

25

35

45

55

65

75

85

90

Multiplier: 27K - 0.93 30K - 0.97 40K - 1.02

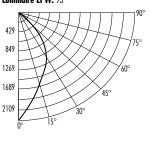
Degrees

Vertical

0

PHOTOMETRIC REPORT Test Report#: 25978R

Catalog No: TC22LED G4 20LM 35K 90CRI MVOLT with 27 CWH Clear Alzak Trim and Standard Wide Flood Optic Luminaire Spacing Criteria: 0.78 Luminaire LPW: 93



CANDLEPOWER **AVERAGE INITIAL FOOTCANDLES** DISTRIBUTION Multiple Units (Square Array, 60'x60' room) Ceiling 80% Wall 50% Floor 20%

Celling 80	%, vvali 50%,	Floor 20	/o
Spacing	RCR1	RCR3	RCR5
4.0'	147	122	101
5.0'	94	78	65
6.0'	66	54	45
7.0'	53	44	36
8.0'	42	35	29
9.0'	32	26	22
10.0'	24	19	16

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	1021	N/A	46.7
0-40°	1557	N/A	71.3
0-60°	2025	N/A	92.7
0-90°	2185	N/A	100.0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

RCR1

161

103

58

46

26

ZONAL LUMEN SUMMARY

Lumens

1256

1827

2303

2335

RCR3

134

86

60

48

38

29

21

%Lamp

N/A

N/A

N/A

N⁄A

RCR5

114

51

41

18

%Fixture

53.8

78.3

98.

100.0

Ceiling 80%, Wall 50%, Floor 20%

INITIAL FOOTCANDLES (One Unit, 25.1W, 77.6° Beam) **Distance to** Footcandles Bea Illuminated Plane (Feet) Diameter Beam Center 87.8 6.4 39.0 9.6 22.0 129 14.1 16.1

LUMINANCE (Average cd/m²)

Degrees	Average 0° Luminance
45	32508
55	17551
65	12374
75	12284
85	9410

INITIAL FOOTCANDLES

(One Unit, 25.1W, 58° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	144.9	4.4
6	64.4	6.7
8	36.2	8.9
10	23.2	11.1

LUMINANCE (Average cd/m²)

Average 0° Luminance
37315
14612
4031
0
0

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.

Spacing

4.0

5.0

6.0

70

8.0

9.0

10.0

Zone

0-30°

0-40°

0-60°

0-90°