G1.5.87

JUNO

Project:

Fixture Type:

Location:

Contact/Phone:

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 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.

Hyperbolic Optical System Unique hyperbolic reflector shape optimized for small, directional LED source provides unique aperture appearance with reduced brightness • NMCTM nano mixing chamber (provided with trim) with high reflectance white finish coupled with a high transmission diffusing lens conceals the LED and integrates with the hyperbolic trim to create a low glare, efficient system.

Aesthetic Trim Selections Patent pending hyperbolic reflector available in clear Alzak®, haze, wheat haze, black Alzak® and white • Shadow free, knife edge design blends seamlessly into ceiling • Installs with torsion springs.

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 \bullet Power factor > 0.9 at 120V input \bullet Optional Lutron Hi-Lume® A-Series driver accommodates 120-277 volts AC at 50/60Hz \bullet Mounted between the j-box and housing for easy access and cool operation \bullet 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 40% light output in emergency mode.

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

 $\label{eq:Labels} \mbox{ENERGY STAR}^{\mbox{\scriptsize 0}} \ \mbox{Qualified when used with select trims \bullet UL listed for U.S. and Canada through-branch wiring, damp locations \bullet Union made \bullet UL and cUL listed. \\$

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) $\frac{1}{2}^{"}$ 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 (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

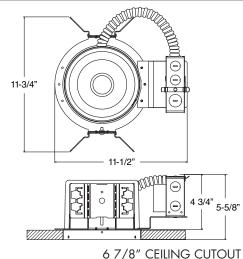
6" TC 1400 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

TC1422LED4 RECESSED HOUSING



HYPERBOLIC TRIMS

DIMENSIONS



ELECTRICAL DATA STANDARD UNIVERSAL VOLTAGE DRIVER (-U)

		N - 1
	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,	FCC Title 47 CFR, Part 15,
	Class A (Commercial)	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,	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 (-L)

LOIKOITHEOM		
	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,	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 WITH EMERGENCY OPTION (-LBR)

22.6W (+/-5%)	00 (111 / / 50/)
22.011 (17 3/0)	22.6W (+/-5%)
0.21A	0.12A
50/60Hz	50/60Hz
FCC Title 47 CFR, Part 15,	FCC Title 47 CFR, Part 15,
Class A (Commercial)	Class A (Commercial)
0°C (32°F)	0°C (32°F)
	0.21A 50/60Hz FCC Title 47 CFR, Part 15, Class A (Commercial)



6" TC 1400 LUMEN LED DOWNLIGHT **NEW CONSTRUCTION**

TC1422LED4 RECESSED HOUSING

HYPERBOLIC TRIMS

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

Example: 27HYP3-HZ-WH Example: TC1422LED4-27K-UBR Catalog No. Color Temp. Voltage Options Trim/Description TC1422LED4 27K 2700K U Universal Voltage BR¹ Emergency Battery Back-up 27HYP3-C-WH Clear Alzak® Black Alzak® 27HYP3-B-WH 120-277V w/Remote Switch 3K 3000K 27HYP3-W-WH (0-10V dimming) White СР Chicago Plenum 35K 3500K 27HYP3-HZ-WH Haze Lutron Hi-Lume 11 41K 4100K Wheat Haze 27HYP3-WHZ-WH Chicago Plenum is not available 3-wire Dimming Wheat Haze 27HYP3-WHZ-ABZ 1 Ecosystem® with emergency option Compatible Trim Size: 7 5/8" O.D. Example: HB-26 Trim Finish: ABZ - Classic Aged Bronze, WH - White Accessories Alzak is a registered trademark of Alcoa Corp. Note: In Canada when insulation is present, Type IC fixtures must be used. Cat. # Cat. # Description Description Notes: 1Not ENERGY STAR® Qualified. Two 13 1/2" - 25" Real Nail® 3 TR6-ABZ² Trim Ring - Classic Age Bronze HB-1 ²Trim ring compatible with 24 bar hangers TR6-BL² Trim Ring - Black and 27 trims. HB-26 Two 26" C-channel bar hangers TR6-SC² Trim Ring - Satin Chrome Two 50" C-channel bar hangers Trim Ring - White HB-50 TR6-WH² Two 27" linear bar hangers LB-27

PHOTOMETRIC REPORT Test Report#: PT10141509R Catalog No: TC1422LED4-35K-U (Candelas) with 27HYP3-C-WH Trim and standard Degrees nano mixing chamber Vertical Luminaire Spacing Criteria: 1.00 0 Luminaire LPW: 76 5 15 25 284 35 568 45 55 851 65

CANDLEPOWER **AVERAGE INITIAL FOOTCANDLES** DISTRIBUTION Multiple Units (Square Array, 60'x60' room)

Ceiling 80%, Wall 50%, Floor 20%

	Spacing	RCR1	RCR3	RCR5
0°	4.0'	106	91	78
1419	5.0'	68	58	50
1408	6.0'	47	40	35
1295	7.0'	38	33	28
1082	8.0'	30	26	22
	9.0'	23	20	17
630	10.0'	17	15	13
186				

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	989	N/A	64.6
0-40°	1373	N/A	89.7
0-60°	1530	N/A	100.0
0-90°	1530	N/A	100.0

INITIAL FOOTCANDLES allait 20 2W/ 67° Ba

(One Onit, 20.2VV, 07 Deani)			
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter	
4	88.7	5.3	
6	39.4	7.9	
8	22.2	10.6	
10	14.2	13.2	

LUMINANCE (Average cd/m²)

Degrees	Average 0º Luminance
45	15654
55	108
65	0
75	0
85	0

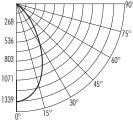
PHOTOMETRIC REPORT

Test Report#: PT10141508R Catalog No: TC1422LED4-35K-U with 27HYP3-HZ-WH Trim and standard nano mixing chamber

1135

1419

Luminaire Spacing Criteria: 1.00 Luminaire LPW: 71



CANDLEPOWER **AVERAGE INITIAL FOOTCANDLES** DISTRIBUTION

14

0

0

0

0

27K - 0.93 3K - 0.97 41K - 1.02

27K - 0.93 3K - 0.97 41K - 1.02

1

0

0

0

0

75

85

90

Multiplier:

(Candelas)

Degrees

Vertical

0

5 15 25

35

45

55

65

75

85

90 Multiplier: Multiple Units (Square Array, 60'x60' room) Cailing 80% Wall 50% Floor 20%

Cennig o	0 %, vvui 30 %,	11001 20	0
Spacing	RCR1	RCR3	RCR5
4.0'	99	85	74
5.0'	63	55	47
6.0'	44	38	33
7.0'	36	31	26
8.0'	28	24	21
9.0'	22	19	16
10.0'	16	14	12

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	896	N/A	62.4
0-40°	1273	N/A	88.7
0-60°	1436	N/A	100.0
0-90°	1436	N/A	100.0

INITIAL FOOTCANDLES (One Unit, 20,2W, 68° Begm)

(0110 0111) 201211,00				
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter		
4	83.7	5.4		
6	37.2	8.1		
8	20.9	10.8		
10	13.4	13.5		

LUMINANCE (Average cd/m²)

Degrees	Average 0º Luminance
45	15453
55	1401
65	0
75	0
85	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.



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