G1.5.41

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 25W*

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 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 40% light output in emergency mode.

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

Labels ENERGY STAR® Qualified when used with select 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.

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 Real Nail® 3 bar hangers (HB-1).

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

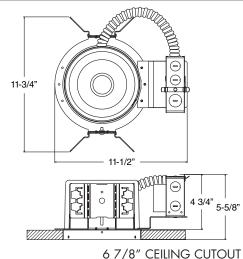
6" TC 1400 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

TC1422LED3 RECESSED HOUSING



HYPERBOLIC TRIMS

DIMENSIONS



ELECTRICAL DATA STANDARD UNIVERSAL VOLTAGE DRIVER (-U)

		v = <i>i</i>
	120V	277V
Input Power	25.1W (+/-5%)	26.2W (+/-5%)
Input Current - Max	0.22A	0.12A
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	28.1W (+/-5%)	29.0W (+/-5%)
Input Current - Max	0.50A	0.45A
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	24.2W (+/-5%)	25.6W (+/-5%)
Input Current - Max	0.21A	0.12A
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)

	120V	277V
Input Power	27.2W (+/-5%)	28.4W (+/-5%)
Input Current - Max	0.49A	0.44A
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)



G1.5.41

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

TC1422LED3 RECESSED HOUSING

HYPERBOLIC TRIMS

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

Example: 27HYP3-HZ-WH Example: TC1422LED3-27K-UBR Catalog No. Color Temp. Voltage Options Trim/Description TC1422LED3 Universal Voltage 27K 2700K U BR1 Emergency Battery Back-up 27HYP3-C-WH Clear Alzak® Black Alzak® 27HYP3-B-WH **3K** 3000K 120-277V w/Remote Switch 27HYP3-W-WH (0-10V dimming) **CP**² Chicago Plenum White 35K 3500K 27HYP3-HZ-WH Haze Lutron Hi-Lume н 41K 4100K 27HYP3-WHZ-WH Wheat Haze 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. Note: 1Not ENERGY STAR® Qualified. Cat. # Cat. # Description Description Two 13 1/2" - 25" Real Nail® 3 TR6-ABZ Trim Ring - Classic Age Bronze HB-1 bar hangers TR6-BL Trim Ring - Black HB-26 Two 26" C-channel bar hangers TR6-SC Trim Ring - Satin Chrome Two 50" C-channel bar hangers Trim Ring - White HB-50 TR6-WH Two 27" linear bar hangers LB-27

PHOTOMETRIC REPORT

(Candelas)

0°

2

0

0

0

0

5

٥

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

Degrees

Vertical

0

5

15

25

35

45

55

65

75

85

90

Multiplier:

(Candelas)

Degrees

Vertical

5

15

35

45

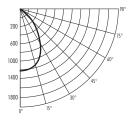
65

75

85 90 Multiplier:

Test Report #: PT03140305R Catalog No: TC1422LED3-35K-U with 27HYP3-C-WH Trim and standard nano mixing chamber Luminaire Spacing Criterion: 1.04

Luminaire LPW: 55



CANDLEPOWER **AVERAGE INITIAL FOOTCANDLES**

DISTRIBUTION Multiple Units (Square Array, 60'x60' room) Ceiling 80% Wall 50% Floor 20% RCR1 RCR3 RCR5 Spacina 4 0 96 82 71 5.0 61 52 45 1256 42 31 6.0 36 1252 70 34 29 25 1181 20 8.0 27 23 968 15 9.0 21 18 568 13 166

Zone	Lumens	%Lamp	%Fixture
0-30°	891	N/A	64.7
0-40°	1237	N/A	89.8
0-60°	1377	N/A	100.0
0-90°	1377	N/A	100.0

INITIAL FOOTCANDLES (One Unit, 25W, 67.4° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	78.5	5.3′
6	34.9	8.0'
8	19.6	10.7′
10	12.6	13.3′

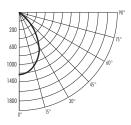
LUMINANCE (Average cd/m²)

	Average 0°	
Degrees	Luminance	
45	12855	
55	155	
65	0	
75	0	
85	0	

PHOTOMETRIC REPORT

Test Report #: PT03140304R Catalog No: TC1422LED3-35K-U with 27HYP3-HZ-WH Trim and standard nano mixina chamber

Luminaire Spacing Criterion: 1.02 Luminaire LPW: 54



CANDLEPOWER **AVERAGE INITIAL FOOTCANDLES** DISTRIBUTION

τιον	Multiple Units (Square Array, 60'x60' room)				
	Ceiling 80% Wall 50% Floor 20%				
	Spacing	RCR 1	RCR3	RCR5	
0°	4.0′	92	80	69	
1251	5.0´	59	51	44	
1235	6.0′	41	35	31	
1130	7.0′	33	29	25	
931	8.01	26	23	20	
563	9.01	20	17	15	
165	10.01	15	13	11	

ZONAL LUMEN SUMMARY

Ő	Zone	Lumens	%Lamp	%Fixture
0	0 - 30°	858	N/A	63.9
0	0 - 40°	1201	N/A	89.5
27K - 0.93	0 - 60°	1341	N/A	100.0
3K - 0.99	0 - 90°	1341	N/A	100.0
41K - 1.01	-			

INITIAL FOOTCANDLES (One Unit, 25W, 67.4° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	78.2	5.3′
6	34.8	8.0'
8	19.6	10.7′
10	12.5	13.3′

LUMINANCE (Average cd/m²)

	Average 0°	
Degrees	Luminance	
45	12782	
55	518	
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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