Project: Fixture Type: Location: Contact/Phone:

6" TC 1400 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

TC1422LED4 RECESSED HOUSING



OPEN 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 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.

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 1400 lumens with select trims (see page 2 for details) using 20V* • 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 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 40% light output in emergency mode.

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

Labels ENERGY STAR® Qualified 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.

Product specifications subject to change without notice.

HOUSING FEATURES

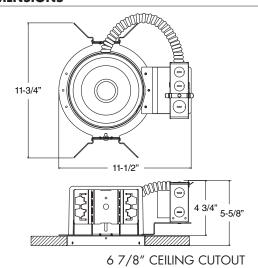
Housing Designed for use in TC applications (non-insulated) • Aluminum housing • Housing is vertically adjustable to accommodate up to a 2" ceiling thickness

Junction Box Pre-wired junction box provided with (5) ½" and (1) ¾" 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 (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

DIMENSIONS



ELECTRICAL DATA

STANDARD UNIVERSAL VOLTAGE DRIVER (-U)

	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)

	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)

	120V	277V
Input Power	22.6W (+/-5%)	22.6W (+/-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)



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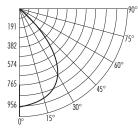
ORDERING INFORMATION: Housing, trim and accessories each ordered separately.

Example: 24W-WH Example: TC1422LED4-27K-UBR Catalog No. Color Temp. Voltage Options **Trim/Description** TC1422LED4 27K 2700K Universal Voltage **BR¹** Emergency Battery Back-up Conical White Baffle 120-277V **3K** 3000K w/Remote Switch 24B-WH 1 Conical Black Baffle Conical Black Baffle (0-10V dimming) 24B-SC 1 Chicago Plenum 35K 3500K 24B-ABZ 1 Conical Black Baffle Lutron Hi-Lume 41K 4100K Chicago Plenum is not available 24B-BL 1 Conical Black Baffle 3-wire Dimming Ecosystem® with emergency option Conical Cone in Clear Alzak® 27C-WH Compatible 27G-WH Conical Cone in Gold Alzak® 27B-WH 1 Conical Cone in Black Alzak® Example: HB-26 27PT-SC Conical Cone in Pewter Alzak® 27W-WH Conical Cone in Gloss White **Accessories** 27HZ-WH Conical Cone in Haze 27WHZ-WH Conical Cone in Wheat Haze 27WHZ-ABZ Conical Cone in Wheat Haze Cat. # Description Cat. # Description Medium Flood Optic (50°) HB-1 Two 13 1/2" - 25" Real Nail® 3 LEDOPTICG3-M 9024W-WH White Octagonal 9524-SC Chrome Band w/ White Baffle Narrow Flood Optic (37°) bar hangers LEDOPTICG3-N Two 26" C-channel bar hangers Spot Optic (10°) **LEDOPTICG3-S HB-26** 9324-SC Luminous Disc Luminous Collar Two 50" C-channel bar hangers TR6-ABZ2 HB-50 Trim Ring - Classic Age Bronze (Frosted) (Frosted) Two 27" linear bar hangers TR6-BL2 Trim Ring - Black LB-27 Trim Size: 24, 27, 9324, 9524 - 7 5/8" O.D.; 9702 - 7 3/4" O.D.; 9024 - 8" O.D. TR6-SC² Trim Ring - Satin Chrome Notes: 1Not ENERGY STAR® Qualified TR6-WH² Trim Ring - White Trim Finish: ABZ - Classic Aged Bronze, BL - Black, SC - Satin Chrome, WH - White Alzak is a registered trademark of Alcoa Corp. ²Trim ring compatible with 24 and 27 trims. Note: In Canada when insulation is present, Type IC fixtures must be used.

PHOTOMETRIC REPORT

Test Report#: PT10141507R Catalog No: TC1422LED4-35K-U with 24W-WH White Baffle Trim and Standard Wide Flood Ontic Luminaire Spacing Criteria: 1.16

Luminaire LPW: 79



CANDLEPOWER DISTRIBUTION

(Candela	s)
Degrees Vertical	0°
0	956
5	949
15	898
25	811
35	650
45	307
55	135
65	65
75	38
85	10
90	0
Multiplier:	27K - 0.93 3K - 0.97

(Candelas)	
Degrees Vertical	0°
0	956
5	949
15	898
25	811
35	650
45	307
55	135
65	65
75	38
85	10
90	0
Multiplier:	27K - 0.93 3K - 0.97 41K - 1.02

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

Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCKI	KCK3	KCK5
4.0'	108	88	74
5.0'	69	56	47
6.0'	48	39	33
7.0'	39	32	27
8.0'	31	25	21
9.0'	23	19	16
10.0'	17	14	12

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Zone	Lumens	%Lamp	%Fixture
0-30°	716	N/A	44.8
0-40°	1113	N/A	69.7
0-60°	1481	N/A	92.7
0-90°	1598	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 20.2W, 80.3° Beam)

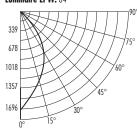
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	59.8	6.7
6	26.6	10.1
8	14.9	13.5
10	9.6	16.9

LUMINANCE (Average cd/m²)

Degrees	Average 0° Luminance
45	25776
55	13943
65	9155
75	8740
85	6595

PHOTOMETRIC REPORT

Test Report#: 25978R Catalog No: TC1422LED4-35K-U with 27C-WH Clear Alzak Trim and Standard Wide Flood Optic Luminaire Spacing Criteria: 0.94 Lumingire IPW: 84



CANDLEPOWER DISTRIBUTION

(Candelas)		
Degrees Vertical	0°	
0	1696	
5	1589	
15	1206	
25	946	
35	677	
45	323	
55	103	
65	21	
75	0	
85	0	
90	0	
Multiplier:	27K - 0.93 3K - 0.97	

41K - 1 02

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

Ceiling 80%	s, Wall 50%	, Floor 209	%
Spacing	RCR1	RCR3	RCR5
4.0'	117	98	84
5.0'	75	63	54
6.0'	52	44	37
7.0'	42	35	30
8.0'	33	28	24
9.0'	26	21	18
10.0'	19	16	13

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	918	N/A	53.8
0-40°	1336	N/A	78.3
0-60°	1684	N/A	98.7
0-90°	1707	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 20.2W, 58° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	106.0	4.4
6	47.1	6.7
8	26.5	8.9
10	17.0	11.1

LUMINANCE (Average cd/m²)

	Degrees	Average 0° Luminance
	45	27283
	55	10684
	65	2947
	75	0
Ξ	85	0

