



Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

5" TC 1400 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

TC1420LED4 RECESSED HOUSING
WALL WASH 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 Painted white scoop is designed to work with computer-optimized reflector design to direct light toward wall uniform illumination on vertical surfaces while concealing LED optic assembly and minimizing glare • LEDs are concealed by high transmission diffusing lens • Retention bar holds scoop assembly to trim • White or black baffle available.

Aesthetic Trim Selections Low profile scoop wall wash trim • 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 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 i-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 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

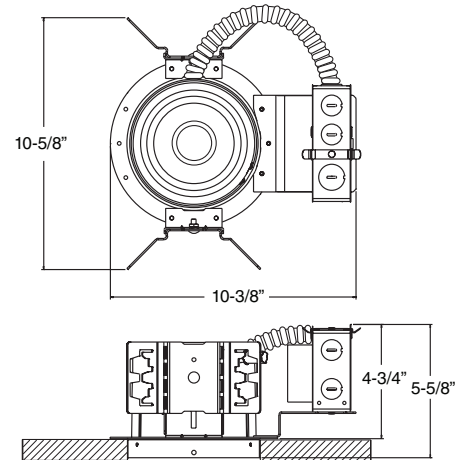
Housing Designed for use in TC applications (non-insulated) • Aluminum housing • Housing is vertically adjustable to accommodate up to a 2" ceiling thickness.

Junction Box Pre-wired junction box provided with (5) 1/2" and (1) 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 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

DIMENSIONS



5 5/8" CEILING CUTOUT

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, Class A (Commercial)	FCC Title 47 CFR, Part 15, 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, 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 (-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, 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 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, 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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TC1420LED4 RECESSED HOUSING

WALL WASH TRIMS

ORDERING INFORMATION: Housing, trim and accessories each ordered separately.
Example: **TC1420LED4-27K-UBR**

Catalog No.	Color Temp.	Voltage	Options
TC1420LED4	27K 2700K 3K 3000K 35K 3500K 41K 4100K	U Universal Voltage 120-277V (0-10V dimming) L Lutron Hi-Lume 3-wire Dimming Ecosystem® Compatible	BR ¹ Emergency Battery Back-up w/Remote Switch CP Chicago Plenum Chicago Plenum is not available with emergency option

Notes: ¹ Not ENERGY STAR® Qualified.

Example: **HB-26**

Accessories

Cat. #	Description
HB-1	Two 13 1/2" - 25" Real Nail® 3 bar hangers
HB-26	Two 26" C-channel bar hangers
HB-50	Two 50" C-channel bar hangers
LB-27	Two 27" linear bar hangers

Example: **213G3W-WH**

Trim/Description
213G3W-WH Scoop Wall Wash with White Baffle
213G3B-WH Scoop Wall Wash with Black Baffle



Trim Size: 6 1/4" O.D.

Trim Finish: WH - White.

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

PHOTOMETRIC REPORT

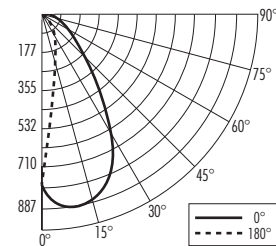
Test Report#: PT10112701R

Catalog No: TC1420LED4-35K-U

with 213G3W-WH Wall Wash Trim

Luminaire Spacing Criteria: 0.92

Luminaire LPW: 48



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0° Wall Wash	180° Downlight
0	782	782
5	865	557
10	887	329
15	879	227
20	837	179
25	760	145
30	646	114
35	484	91
40	331	72
45	252	59
50	207	53
55	179	43
60	159	33
65	138	22
70	119	14
75	86	3
80	53	0
85	31	0
90	0	0

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

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	456	N/A	47.1
0-40°	641	N/A	66.3
0-60°	851	N/A	88.0
0-90°	967	N/A	100.0

LUMINANCE (Average cd/m²)

Degrees	Average 0° Luminance
45	28013
55	24600
65	25682
75	26210
85	28020

FOOTCANDLES ON WALL FROM MULTIPLE FIXTURES

Fixture Distance to Wall	2'						3'					
Fixture Centers (spacing)	2'			3'			3'			4'		
1'	32	31	32	25	19	25	12	12	12	10	9	10
2'	43	42	43	32	27	32	20	20	20	17	15	17
3'	43	43	43	32	27	32	21	20	21	17	15	17
4'	40	41	40	29	28	29	21	21	21	17	15	17
5'	33	34	33	23	24	23	21	21	21	17	16	17
6'	27	27	27	19	19	19	19	20	19	15	16	15
7'	21	21	21	16	16	16	18	18	18	14	14	14
8'	17	17	17	13	13	13	15	16	15	12	12	12
9'	13	14	13	10	11	10	13	13	13	10	10	10

*For 213G3B-WH trim, use 0.84 multiplier.

*Note: Multipliers are provided for estimating purposes only. Use IES photometric files for precise photometric information.



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