

CAT: FEET:

TYPE: PROJECT:



Discreet compact (1¼" x 1¼"), hidden light source tamper-resistant linear LED lighting system.

Features

- Optically clear polycarbonate co-extruded directional lens features 65° lighting cut-off for hidden, discreet illumination.
- Base and lens available in 8' field cuttable lengths with optional row indicator window.
- End-to-end continuous mounting with continuous 18AWG, 2 conductor through wires minimize voltage drop.
- Use with Tivoli's patented two-tone bullnose stair nosing with reflective edge.

Mounting

Designed for aisle walls and staircases with 18' minimum bend radius. Suggested mounting height above floor is 12"-16" for standard 4' pathway, up to 12" for pathway less than 4'. Up, Down, inside corner, outside corner, and straight run joiner brackets available for ease of installation.

Applications

Ideal for wall mounted step and aisle lighting applications.

Warranty

5 years



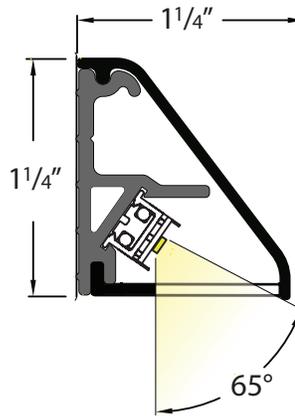
Technical Information

| LED Color | 1900K - 4000K | Red | Blue | Amber | 1900K - 4000K | Red | Blue | Amber |
|-------------------|--|------|------|-------|---------------|------|------|-------|
| LED PCB Spacing | 6" | | | | 12" | | | |
| *Lumens/ft | 38 | N/A | | | 19 | N/A | | |
| *Watts/ft | 1.10 | 0.54 | 1.16 | 1.26 | 0.55 | 0.27 | 0.58 | 0.63 |
| *Lumen/Watt | 35 | N/A | | | 35 | N/A | | |
| CRI | >80/TYP83 | | N/A | | >80/TYP83 | | N/A | |
| Kelvin Temp | 1900K, 2700K, 3000K, 3500K, 4000K (+/-80K) 3SDCM, Red, Blue, Amber | | | | | | | |
| Rated Life | 75,000 hrs. | | | | | | | |
| Max Run Length | 33' | 40' | 28' | 28' | 65' | 80' | 55' | 55' |
| Order Increments | 8' Sections | | | | | | | |
| Operating Voltage | 12V DC | | | | | | | |
| Power Supply | Class 2 | | | | | | | |
| Dimmable | Yes | | | | | | | |

*Based on 3000K Sample

Profile Dimensions

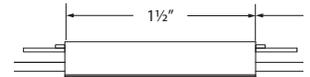
Single Illumination System



Optional Row Indicator Window



Profile Of Titanium LED Module





Recommended Power Supplies

ADUL - NON DIMMING

| DESCRIPTION | CAT NO | APPLICATION | PRIMARY VOLTAGE | SECONDARY VOLTAGE | CIRCUIT BREAKERS | MAX LOAD | CIRCUIT CAPACITY |
|---------------------------------|-------------------|---------------|------------------------|-------------------|------------------|----------|------------------|
| ADUL Series Class 2 Transformer | ADUL-80-1-5-12-D | Indoor / Damp | 100-277V AC 5ø60 HZ | 12V DC | 1 | 60W | 5A |
| | ADUL-150-2-5-12-D | | | | 2 | 2x60W | 2x5A |
| | ADUL-240-3-5-12-D | | | | 3 | 3x60W | 3x5A |
| | ADUL-320-4-5-12-D | | | | 4 | 4x60W | 4x5A |

ADUL - 0-10V DIMMING

| DESCRIPTION | CAT NO | APPLICATION | PRIMARY VOLTAGE | SECONDARY VOLTAGE | CIRCUIT BREAKERS | MAX LOAD | CIRCUIT CAPACITY |
|---------------------------------|---------------------|---------------|------------------------|-------------------|------------------|----------|------------------|
| ADUL Series Class 2 Transformer | ADUL-80-1-5-12-DOT | Indoor / Damp | 100-277V AC 5ø60 HZ | 12V DC | 1 | 60W | 5A |
| | ADUL-150-2-5-12-DOT | | | | 2 | 2x60W | 2x5A |
| | ADUL-240-3-5-12-DOT | | | | 3 | 3x60W | 3x5A |
| | ADUL-320-4-5-12-DOT | | | | 4 | 4x60W | 4x5A |

ADUL - DMX SINGLE ADDRESS

| DESCRIPTION | CAT NO | APPLICATION | PRIMARY VOLTAGE | SECONDARY VOLTAGE | CIRCUIT BREAKERS | MAX LOAD | CIRCUIT CAPACITY |
|---------------------------------|---------------------|---------------|------------------------|-------------------|------------------|----------|------------------|
| ADUL Series Class 2 Transformer | ADUL-80-1-5-12-DIN | Indoor / Damp | 100-277V AC 5ø60 Hz | 12V DC | 1 | 60W | 5A |
| | ADUL-150-2-5-12-DIN | | | | 2 | 2x60W | 2x5A |
| | ADUL-240-3-5-12-DIN | | | | 3 | 3x60W | 3x5A |

ADUL - DMX MULTI ADDRESS

| DESCRIPTION | CAT NO | APPLICATION | PRIMARY VOLTAGE | SECONDARY VOLTAGE | CIRCUIT BREAKERS | MAX LOAD | CIRCUIT CAPACITY |
|---------------------------------|-----------------------|---------------|------------------------|-------------------|------------------|----------|------------------|
| ADUL Series Class 2 Transformer | ADUL-150-2-5-12-DIN-2 | Indoor / Damp | 100-277V AC 5ø60 Hz | 12V DC | 2 | 2x60W | 2x5A |
| | ADUL-240-3-5-12-DIN-3 | | | | 3 | 3x60W | 3x5A |
| | ADUL-320-4-5-12-DIN-4 | | | | 4 | 4x60W | 4x5A |

INFINITY - MLV / ELV / 0-10V / PWM / TRIAC

| DESCRIPTION | CAT NO | APPLICATION | PRIMARY VOLTAGE | SECONDARY VOLTAGE | CIRCUIT BREAKERS | MAX LOAD | MIN LOAD | CIRCUIT CAPACITY |
|-------------------------------------|-------------------|------------------|-----------------|-------------------|------------------|----------|----------|------------------|
| Infinity Series Class 2 Transformer | INF-J-30-1-2.5-12 | Indoor / Outdoor | 100 - 277V AC | 12VDC | 1 | 30W | 3W | 2.5A |
| | INF-J-60-1-5-12 | | | | 1 | 60W | 6W | 5A |
| | INF-J-180-3-5-12 | | | | 3 | 3x60W | 3x6W | 3x5A |
| | INF-J-300-5-5-12 | | | | 5 | 5x60W | 5x6W | 5x5A |

Recommended Dimmers

DIMMING - 0-10V

| DESCRIPTION | CAT NO | APPLICATION | INPUT VOLTAGE | OUTPUT VOLTAGE | MAX LOAD |
|--------------|------------|-------------|---------------|----------------|-------------------------------|
| 0-10V Dimmer | DIM-LD-010 | Indoor | 12V/24V DC | 12V/24V DC | 30 mA max. output (sink only) |

DIMMING - MLV

| DESCRIPTION | CAT NO | APPLICATION | INPUT VOLTAGE | OUTPUT VOLTAGE | MAX LOAD |
|-------------|--------|-------------|---------------|----------------|----------|
| MLV Dimmer | N-600 | Indoor | 120V AC | 120V AC | 450W |
| | N-1000 | | | | 800W |
| | N-1500 | | | | 1200W |
| | D-600 | | | | 450W |
| | M-600 | | | | 450W |
| | M-1000 | | | | 800W |

DIMMING - ELV

| DESCRIPTION | CAT NO | APPLICATION | INPUT VOLTAGE | OUTPUT VOLTAGE | MAX LOAD |
|-------------|--------|-------------|---------------|----------------|----------|
| ELV Dimmer | ME-600 | Indoor | 120V AC | 120V AC | 450W |
| | DE-300 | | | | 300W |

DIMMING - DMX

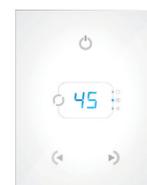
| DESCRIPTION | CAT NO | APPLICATION | INPUT VOLTAGE | OUTPUT PROTOCOL | MAX UNIVERSE |
|----------------|--------------|-------------|---------------|-----------------|--------------|
| DMX Controller | TVOQ-1-WH | Indoor | 5V DC | DMX 512 | 1 |
| | TVOQ-2-BK | | 6V DC | | |
| | TVOQ-2-WH | | | | |
| | TVOQ-10-BK-7 | | 6-7V DC | | 2 |
| | TVOQ-10-WH-7 | | | | |



TVOQ-1-WH
WH (White only)



TVOQ-10-XX-7
XX = BK (Black), WH (White)



TVOQ-2-XX
XX = BK (Black), WH (White)



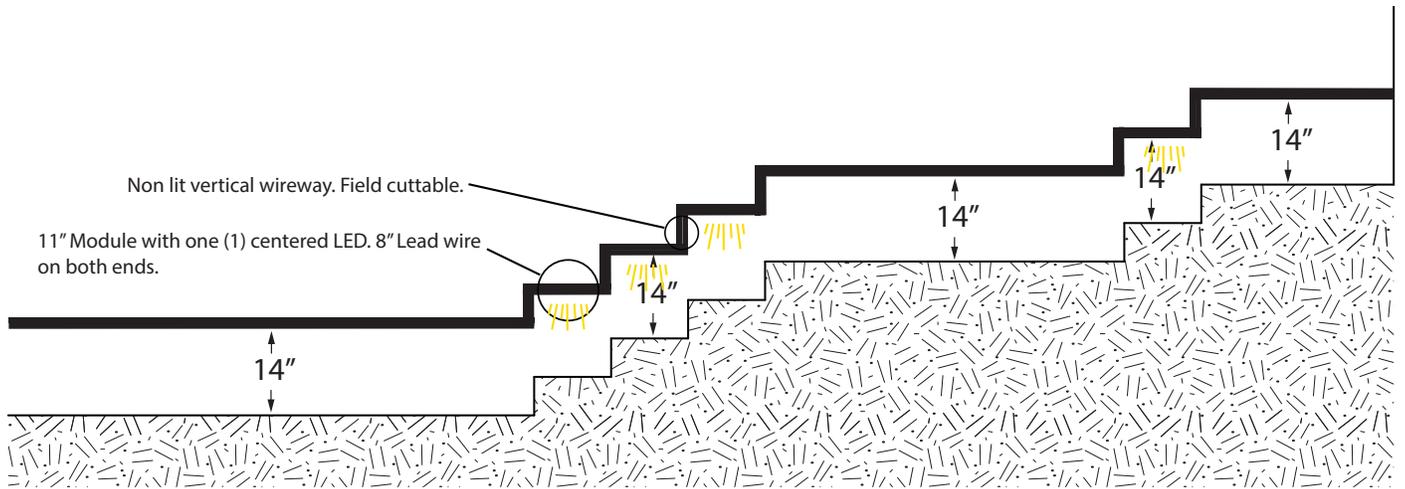
90° Vertical Outside



90° Vertical Inside

90° Vertical Inside and Outside Joints

Engineered for new theater formats that include reclining seats; these new brackets enable full cut off glare. The vertical part of the assembly over the stairs acts as a wire way to the Titanium LEDs installed on the horizontal portion over each step to achieve the full cut off of glare. This new method follows the stair lines versus the hand rail lines of the 35° joint.



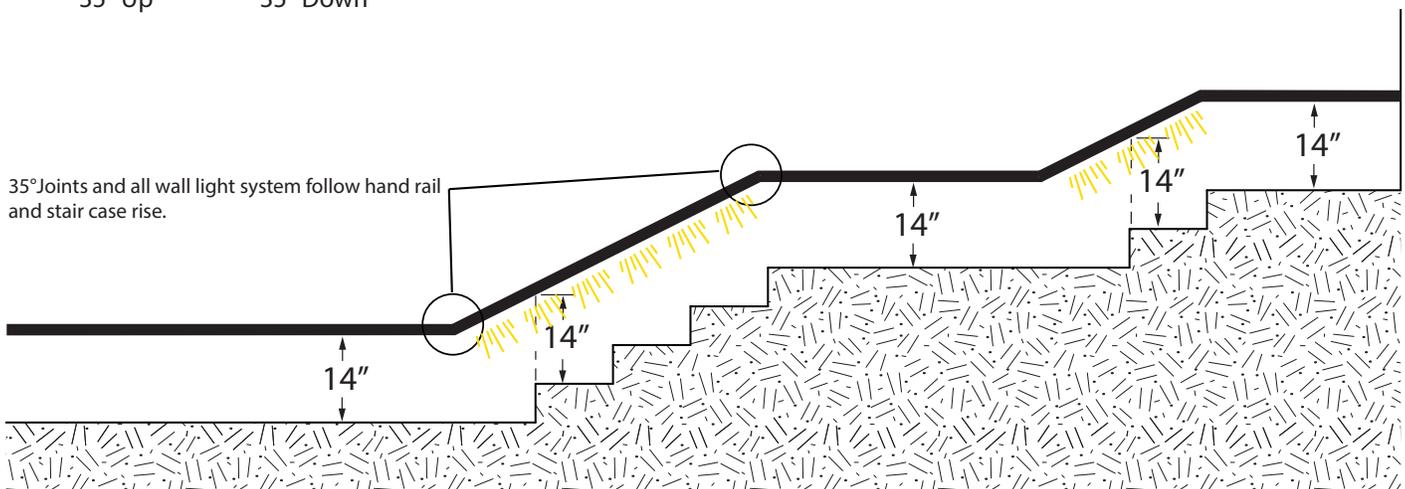
35° Up



35° Down

35° Joints

Engineered for 35° downward mounting angles over the stairs, in theaters, where standard seating and landing spacing are utilized. This method may not fully eliminate glare as with the 90° joints and installation method.



Ordering Information

| PRODUCT CODE | PCB SPACING | LED | FINISH | FIXTURE LENGTH |
|-------------------------------|---------------------|---|-----------|----------------|
| FWTT | - | - | - | - |
| FWTT = Fantasma Wall Titanium | 06 = 6" 12 = 12" | 19 = 1900K 27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K AM = Amber RD = Red BL = Blue | M = Matte | 8.0 = 8' |

Mounting Accessories

| | | | | | | | |
|--|---|--|--|---|--|--|--|
| | | | | | | | |
| FANTASMA END CAP FWTT-EC-L Left End Cap FWTT-EC-R Right End Cap | BS-CC-8 Wall wireway, 8' Black Base & Conduit Cover | JBOX-LP Junction box, low profile | BSL-PC-1/4 1/4" Flex Conduit, Black | FWTT-LENS-M-8 Fantasma lens - 8' WLS-BASE-8 Wall light system base - 8' | FWTT-JUMPER-2 24 inch lead jumper | TM-2-3/8 Self tapping wall screw, Phillips profile - 2 3/8" length | TM-1-1/2 Self tapping, deep cutting, corkscrew-like thread, Phillips profile - 1 1/2" length |

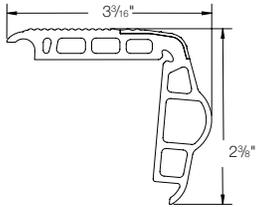
| | | | | | | |
|--|---|--|--|--|--|---|
| | | | | | | |
| FWTT-O-CRNR Outside corner joint, matte black | FWTT-I-CRNR Inside corner joint, matte black | FWTT-U-JNT Upward wall joint, matte black | FWTT-D-JNT Downward wall joint, matte black | FWTT-ST-JNT Straight joint, matte black | FWTT-OV-CRNR 90° Outside vertical Joint, matte black | FWTT-IV-CRNR 90° Inside vertical Joint, matte black |

Replacement Parts

| | | | |
|---|--|---|---|
| | | | |
| REPLACEMENT PCB FTT-LED-19 1900K FTT-LED-27 2700K FTT-LED-30 3000K FTT-LED-35 3500K FTT-LED-40 4000K FTT-LED-AM Amber FTT-LED-BL Blue FTT-LED-RD Red | REPLACEMENT STRAND WITH 6" O.C. LED PCB SPACING SOLD PER FT. - INDICATE AT TIME OF ORDERING FTT-06-STRAND-19 Replacement Strand With 1900K LED FTT-06-STRAND-27 Replacement Strand With 2700K LED FTT-06-STRAND-30 Replacement Strand With 3000K LED FTT-06-STRAND-35 Replacement Strand With 3500K LED FTT-06-STRAND-40 Replacement Strand With 4000K LED FTT-06-STRAND-AM Replacement Strand With Amber LED FTT-06-STRAND-BL Replacement Strand With Blue LED FTT-06-STRAND-RD Replacement Strand With Red LED | REPLACEMENT STRAND WITH 12" O.C. LED PCB SPACING SOLD PER FT. - INDICATE AT TIME OF ORDERING FTT-12-STRAND-19 Replacement Strand With 1900K LED FTT-12-STRAND-27 Replacement Strand With 2700K LED FTT-12-STRAND-30 Replacement Strand With 3000K LED FTT-12-STRAND-35 Replacement Strand With 3500K LED FTT-12-STRAND-40 Replacement Strand With 4000K LED FTT-12-STRAND-AM Replacement Strand With Amber LED FTT-12-STRAND-BL Replacement Strand With Blue LED FTT-12-STRAND-RD Replacement Strand With Red LED | ROW INDICATOR LED FTT-RI-19 1900K FTT-RI-27 2700K FTT-RI-30 3000K FTT-RI-35 3500K FTT-RI-40 4000K FTT-RI-RD Red FTT-RI-BL Blue FTT-RI-AM Amber |

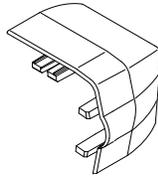
| |
|---|
| |
| REPLACEMENT WINDOW ONLY Snaps easily into position along installed base and interconnects with outer lens cover for seamless profile. FTT-WINDOW |

TwoTone Bullnose & Accessories



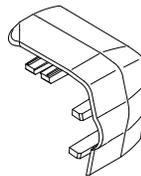
Bullnose Extrusion

- BNS-TT-GY-12**
TwoTone Bullnose, 12' length, Black/Gray Strip
- BNS-TT2-GY-12**
TwoTone Bullnose, 12' length, Black/2" Gray Strip
- BNS-SC-GY-12**
Bullnose, Solid Gray, 12' Length



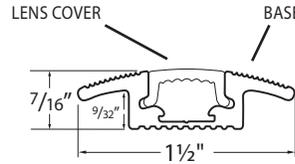
Bullnose End Caps

- BNS-TT-EC-L**
End Cap, Left Side Overlap Design, Black
- BNS-TT-EC-R**
End Cap, Right Side Overlap Design, Black



CC Bullnose End Caps (Carpet-To-Carpet)

- BNS-CC-TT-EC-L**
End Cap, Carpet-To-Carpet, Left Side, Black
- BNS-CC-TT-EC-R**
End Cap, Carpet-To-Carpet, Right, Black



CC & CW Wire Way Combo - Base & Lens

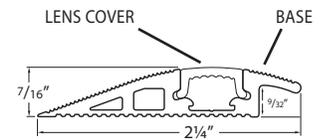
- WW-CC-BK-8**
Carpet to Carpet Base and Cover 8' - Black
- WW-CC-GY-8**
Carpet to Carpet Base and Cover 8' - Gray
- WW-CW-BK-8**
Carpet to Wall Base and Cover 8' - Black
- WW-CW-GY-8**
Carpet to Wall Base and Cover 8' - Gray

CC & CW Wire Way Base ONLY

- WW-CW-BS-8**
Base Only, Carpet to Wall, Black, 8'
- WW-CC-BS-8**
Base Only, Carpet to Carpet, Black, 8'

CC & CW Wire Way Lens ONLY

- WW-TC-CL-8**
Lens Cover Only, Clear, 8'
- WW-TC-BK-8**
Lens Cover Only, Black, 8'
- WW-TC-BZ-8**
Lens Cover Only, Bronze, 8'
- WW-TC-GY-8**
Lens Cover Only, Gray, 8'



CE Wire Way Combo - Base & Lens

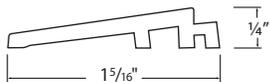
- WW-CE-BK-8**
Carpet to Edge Base and Cover 8' - Black
- WW-CE-GY-8**
Carpet to Edge Base and Cover 8' - Gray

CE Wire Way Base ONLY

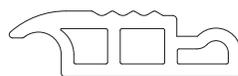
- WW-CE-BS-8**
Base Only, Carpet To Edge, Black, 8'

CE Wire Way Lens ONLY

- WW-TC-CL-8**
Lens Cover Only, Clear, 8'
- WW-TC-BK-8**
Lens Cover Only, Black, 8'
- WW-TC-BZ-8**
Lens Cover Only, Bronze, 8'
- WW-TC-GY-8**
Lens Cover Only, Gray, 8'



- BNS-TT-R-12**
Step Reducer, 12' Section



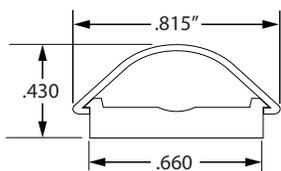
- STP-EXTNDR-12**
Bullnose Step Landing Tread Extender, 12'



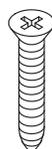
- ADH-MB-75AM-10**
Extrusion adhesive, 10.1 oz tubes, sold individually. 30 per case.
- ADH-MB-75AM-29**
Extrusion adhesive, 29 oz tubes, sold individually. 12 per case.



- ADH-IA-10.2-CA**
End Cap Adhesive, Clear liquid adhesive for end caps. 10.2 oz tubes sold individually. 12 per case.



- BS-CC-8**
Wall wireway, 8' Black Base & Conduit Cover



- TM-3/16**
Concrete Screw 3/16" x 1 3/4"



- RONDB-5/32**
Concrete Drill Bit 5/32"