WARRANTY & RATING

SPECIFICATIONS

- Wattage: 2.5W
- Voltage: AC 120-277V
- Luminous Flux: 150lm
- Beam Angle: 30º
- Color Rendering Index (CRI): >90
- Lifespan: 30,000hrs
- Light Source: LED
- Color Temperature (CCT): 2700K / 3000K / 4000K selectable
- Waterproof Rating: IP65
- Operating Temperature: -4°F-104°F
- Material: Zinc Alloy

PRODUCT DESCRIPTION

LEONLITE's 120V-277V LED Step Lights are perfect for professional settings, featuring durable, corrosion-resistant zinc alloy and a hidden light source design for glare reduction. With a high CRI of 90 and three selectable color temperatures, these dimmable lights are versatile for both indoor and outdoor spaces.

FEATURES & BENEFITS

- Professional-Grade High Voltage: 120V-277V adaptability for diverse commercial settings.
- Durable Zinc Alloy Construction: Ideal for corrosive coastal environments, wear-resistant.
- Dimmable with Anti-Glare Design: Customizable brightness, comfortable downward lighting for steps and walls.
- Three Selectable Color Temperatures: 2700K/3000K/4000K options for varied ambiance settings.
- High CRI for True Color: CRI90 for vivid, natural color rendering in both residential and commercial use.

POWER AND ELECTRICAL FEATURES

- ETL and T24 certified for safety and energy efficiency, this product operates on a versatile AC 120V-277V voltage range and maintains a current of 0.025A.
- Wiring and Plug: Features a UL-certified 18AWG UL1015 tinned copper wire and P3 spiral wire caps for secure and reliable connections.

DESIGN AND STRUCTURE

- Material: Made of zinc alloy, ideal for high-corrosion coastal areas, featuring a heavy, smooth, and wear-resistant cast surface. Available in Oil Rubbed Bronze and White finishes.
- Voltage Compatibility: Seamlessly integrates with commercial voltages (120V-277V), making it suitable for a variety of indoor and outdoor commercial spaces, particularly for low steps and walls.
- Design: Features a concealed light source for anti-glare illumination, enhancing safety and comfort.
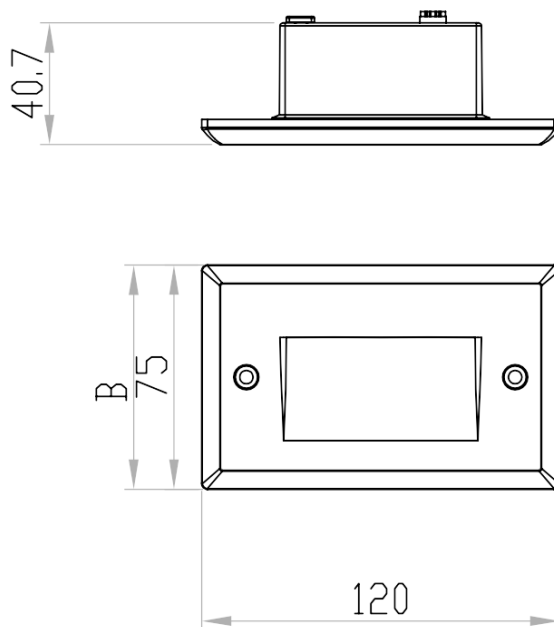
ADDITIONAL COMPONENTS

- Screws: Each unit includes 2 stainless steel screws for secure installation.
- Wire Caps: Comes with 3 waterproof wire caps, ensuring safe and durable electrical connections.
- Plastic Plugs: Includes 2 plastic plugs per unit for a neat finish.
- EVA Foam: Each light is equipped with EVA foam, pre-installed for easy setup.

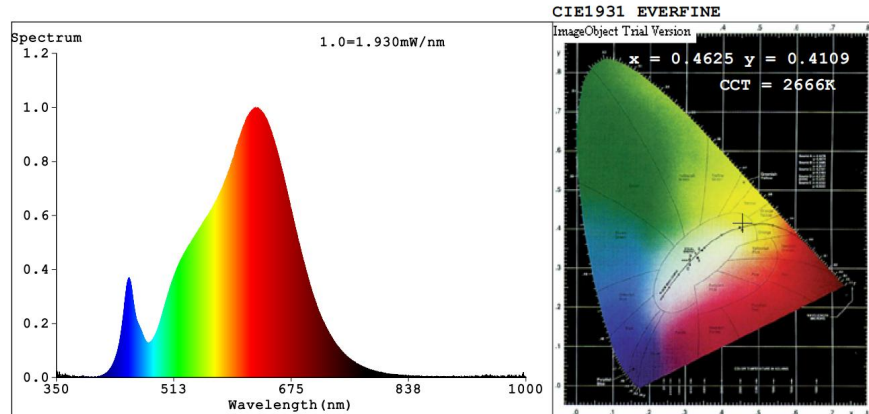## LED AND OPTICAL PERFORMANCE

- Dimming Capability: Offers 10-100% dimming range at 120V, compatible with various dimmer models including LEVITON (6161-A, IPL06-10Z, IPIO-1LZ, IPI06-1LZ, 6674, 6633-POG, 6681, 6151, 6633-I) and LUTRON (MACL-153MR-WH, MACL-153P, TGCL-153P, SCL-153PR-WH, SCL-153-LA, DVCL-153P, CTCL-153P, LGCL-153P, N-600, S-603PG-WH, CTELV-303P-WH).
- LED Specifications: Equipped with 12 SMD 2835 LEDs, offering a high CRI of ≥90 and 3CCT (2700K/3000K/4000K) options for versatile color temperature selection.

PRODUCT DIAGRAM

Size in mm
1" = 25.4mm.

PHOTOMETRICS（2700K）

Color Parameters:

Chromaticity Coordinate:x=0.4625   y=0.4109/u'=0.2641 v'=0.5278

CCT=2666K(Duv=-0.0001) Dominant WL:Ld =584.4nm Purity=62.2%

Ratio:R=26.8% G=71.1% B=2.1%   Peak WL:Lp=625.6nm   FWHM=149.7nm

Render Index:Ra=92.9 CRI=90.2   AvgR=90.2

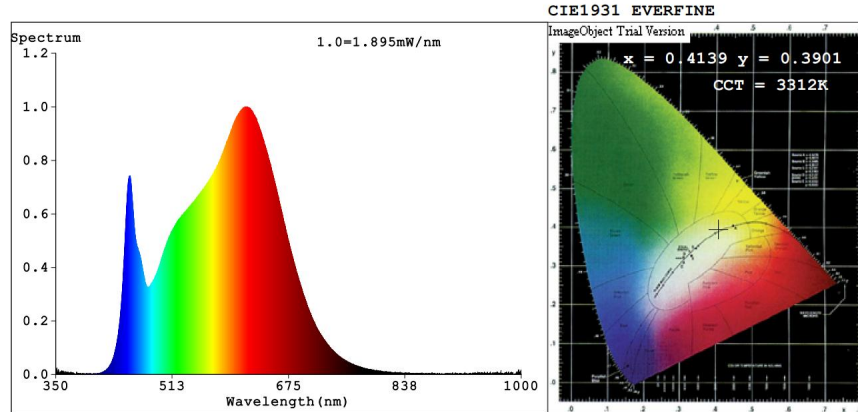| R1 =94	R2 =95	R3 =95	R4 =94	R5 =93	R6 =94	R7 =93
R8 =85	R9 =65	R10=88	R11=95	R12=82	R13=94	R14=96	R15=90

Photo Parameters:

Flux = 86.15 lm   Eff. : 32.16 lm/W Fe = 312.6 mW

Electrical parameters:

V = 120.77 V   I = 0.02420 A   P = 2.679 W PF = 0.9164

LEVEL:OUT   WHITE:ANSI_2700K

Status: Integral T = 195 ms   Ip = 39991 (61%)

PHOTOMETRICS（3000K）

Color Parameters:

Chromaticity Coordinate:x=0.4139 y=0.3901/u'=0.2416 v'=0.5123

CCT=3312K(Duv=-0.0020) Dominant WL:Ld =582.4nm Purity=41.3%

Ratio:R=23.0% G=73.3% B=3.7% Peak WL:Lp=616.7nm FWHM=168.6nm

Render Index:Ra=94.2 CRI=92.0 AvgR=92.0

R1 =96	R2 =99	R3 =98	R4 =94	R5 =95	R6 =96	R7 =91
R8 =84	R9 =64	R10=97	R11=96	R12=81	R13=97	R14=100	R15=92

Photo Parameters:

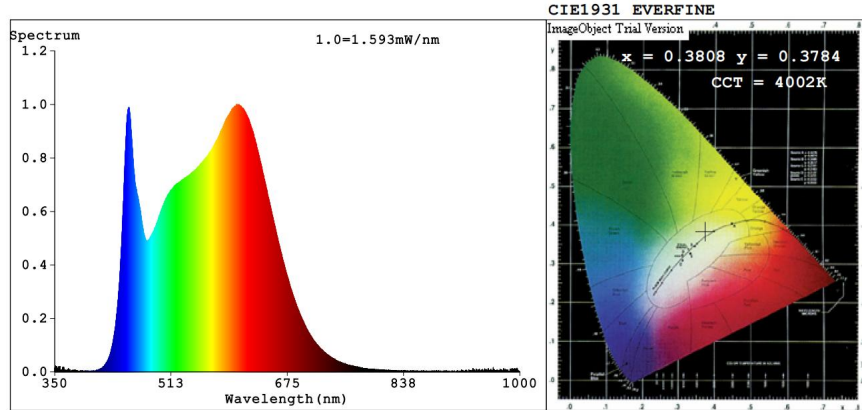Flux = 98.97 lm   Eff. : 39.44 lm/W Fe = 338.4 mW

Electrical parameters:

V = 120.80 V   I = 0.02289 A   P = 2.509 W PF = 0.9074

LEVEL:OUT   WHITE:ANSI_3500K

Status: Integral T = 195 ms Ip = 40862 (62%)

Note: Observed color temperature at 3312K due to anti-glare design (frosted lens and diffusion panel). Actual LED color temperature is 3000K.

PHOTOMETRICS（4000K）

Color Parameters:

Chromaticity Coordinate:x=0.3808 y=0.3784/u'=0.2247 v'=0.5024

CCT=4002K(Duv=0.0007) Dominant WL:Ld =578.7nm Purity=27.8%

Ratio:R=19.8% G=75.4% B=4.8% Peak WL:Lp=604.2nm FWHM=178.6nm

Render Index:Ra=91.7 CRI=88.6 AvgR=88.6

R1 =93	R2 =99	R3 =96	R4 =90	R5 =93	R6 =96	R7 =89
R8 =78	R9 =49	R10=96	R11=93	R12=76	R13=95	R14=98

R15=88

Photo Parameters:

Flux = 92.23 lm   Eff. : 35.48 lm/W Fe = 298.9 mW

Electrical parameters:

V = 120.81 V   I = 0.02356 A   P = 2.600 W PF = 0.9133

LEVEL:OUT   WHITE:ANSI_4000K

Status: Integral T = 195 ms Ip = 35069 (54%)

Dual-Purpose Step and Deck Lights
Slim and safe, dual-purpose low-voltage lighting for steps and decks.

Tende Orizzontali Step & Deck Light

Retro Baffle Step & Deck Light

277V Compatible Commercial Step Lighting
Seamlessly integrates with commercial voltages.

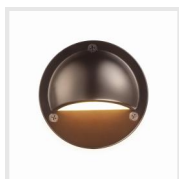ZincTech Commercial Upright Gradience Step & Deck Light

ZincTech Commercial Parallel Gradience Step & Deck Light

ZincTech Commercial Louvered Step & Deck Light

Classic Glow Series
Retro design meets modern lighting.

Semisfera Deck & Rail Light

Quadrifoglio Deck & Rail Light

Pro Parallel Retro Louvered Step & Deck Light

Modern Elegance Series
Blending utility with modern aesthetics.

Affusolato Deck & Rail Light
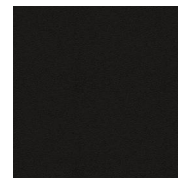
Nova Deck & Rail Light

Vertebre Deck & Rail Light

All Color Options
some models may have limited choices.

Satin Nickel

Matte Black

Oiled Rubbed Bronze

Compatible Accessories

Outdoor Transformer, AC to DC, 12V 60W, Timer & Photocell

Outdoor Transformer, AC to DC, 12V 100W, Timer & Photocell

Outdoor Transformer, AC to DC, 12V 120W, Timer & Photocell

Waterproof Wire Nuts - Large(For terminals/ multiple connections, fits 12AWG - 22AWG, up to 8 wires of 16/2)

Waterproof Wire Nuts - Medium(Fits 14AWG - 22AWG, up to 3 wires of 16/2)

Low Voltage Landscape Lighting Cable, 16/2

Note: Also available in 10/2, 12/2, 14/2 sizes.

Landscape Light Wire Connector(14-16 AWG Compatible)

EasyConnect Wire Connector(14-16 AWG Compatible)