| | | | | | |
|---|---|---|---|---|---|
| Project | | Catalog # | | Type | |
| Prepared by | | Notes | | Date | |



# HALO

## SMX18 Edgeless Surface Mount LED Downlights

The SMX series redefines the surface downlighting experience. With a fully luminous lens face, this series provides exceptional light quality with a sleek, edgeless design that blends effortlessly into any ceiling. The SMX fixtures are engineered to offer a versatile downlighting solution with selectable lumens and color temperatures including dim-to-warm in flicker-free phase cut or 0-10V dimming options. The innovative mounting method ensures a hassle-free installation that seats the fixture securely against the ceiling in either junction boxes or recessed housings. Upgrade your lighting experience with the SMX series and enjoy a seamless blend of style and functionality.

**Typical Applications**
Residential • Multifamily • Hospitality • Healthcare • Retail

## Interactive Menu

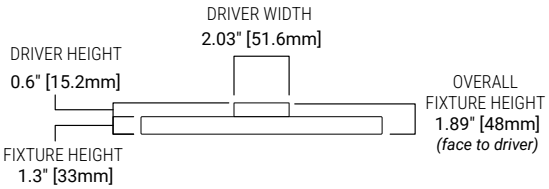

- Order Information page 2
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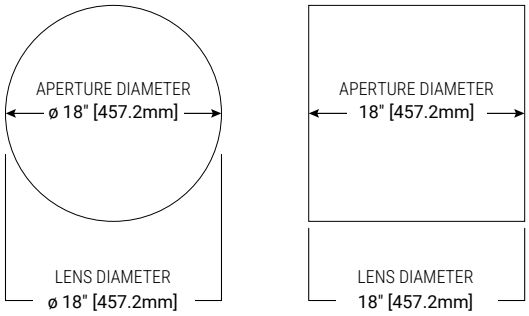

Can be used to comply with California Title 24 High Efficacy requirements.[1]
Certified to California Appliance Efficiency Database under JA8.[1]

## Top Product Features

- 18" Surface Mount Edgeless Design in Round or Square
- Fully luminous edge-to-edge lens with no front face flange
- **Field-SeleCCTable (90+ CRI):**
  - **Phase Cut Versions:** 6-Position Switch with 5 CCT (27/30/35/40/5000K) + Dim-to-Warm (3000K dims to 1800K)
  - **0-10V Versions:** 5 CCT (27/30/35/40/5000K)
- **Brightness:** Lumen Select 1500/2000/2500 lm (nominal)
- **Dimming:** Dims to less than 5% with compatible dimmers in either phase cut LE/TE (120V) or 0–10V (120–277V)
- Mounting hardware, orange LED Quick Connect and E26 adapter included
- Edgeless Decorative Overlays (sold separately)
- AIR-TITE, wet location-listed, IC-rated
- 50,000 hrs of maintenance-free operation
- 5-year warranty

## Dimensional and Mounting Details




1. T24 and RoHS are self-tested by Cooper Lighting Solutions. Not a third party certification.

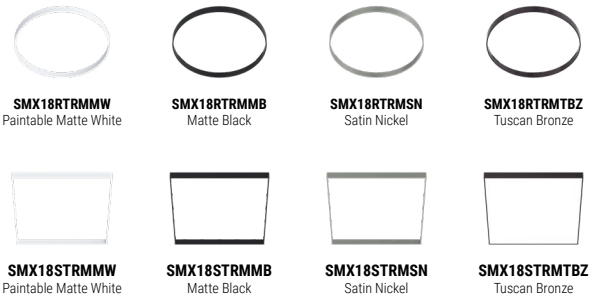
## Order Information

| Catalog Number | Description | Lumens (nominal) | CCT | Finish | Driver Compatibilty | Packaging |
|---|---|---|---|---|---|---|
| SMX18RLSFSD2W | 18" Round Surface Mount LED Downlight | Lumen Selectable: 1500/2000/2500 lm | 90+ CRI, Field Selectable CCT: Dim-to-Warm/2700/3000/3500/4000/5000K | Matte White | Phase Cut LE/TE 5%; 120V | Plastic-free recyclable |
| SMX18RLSFS010 | 18" Round Surface Mount LED Downlight | Lumen Selectable: 1500/2000/2500 lm | 90+ CRI, Field Selectable CCT: 2700/3000/3500/4000/5000K | Matte White | 0-10V 5%; 120-277V | Plastic-free recyclable |
| SMX18SLSFSD2W | 18" Square Surface Mount LED Downlight | Lumen Selectable: 1500/2000/2500 lm | 90+ CRI, Field Selectable CCT: Dim-to-Warm/2700/3000/3500/4000/5000K | Matte White | Phase Cut LE/TE 5%; 120V | Plastic-free recyclable |
| SMX18SLSFS010 | 18" Square Surface Mount LED Downlight | Lumen Selectable: 1500/2000/2500 lm | 90+ CRI, Field Selectable CCT: 2700/3000/3500/4000/5000K | Matte White | 0-10V 5%; 120-277V | Plastic-free recyclable |

### Accessories – Decorative Trim Overlays (order separately)

Add a touch of style and personality to spaces with HALO Decorative Overlays by matching existing hardware or painted finishes.

| Accessories | | |
|---|---|---|
| Catalog Number | Description | Finish |
| SMX18RTRMMW | 18" Round Decorative Overlay | Paintable Matte White |
| SMX18RTRMMB | 18" Round Decorative Overlay | Matte Black |
| SMX18RTRMSN | 18" Round Decorative Overlay | Satin Nickel |
| SMX18RTRMTBZ | 18" Round Decorative Overlay | Tuscan Bronze |
| SMX18STRMMW | 18" Square Decorative Overlay | Paintable Matte White |
| SMX18STRMMB | 18" Square Decorative Overlay | Matte Black |
| SMX18STRMSN | 18" Square Decorative Overlay | Satin Nickel |
| SMX18STRMTBZ | 18" Square Decorative Overlay | Tuscan Bronze |



**SMX18RTRMMW** Paintable Matte White
**SMX18RTRMMB** Matte Black
**SMX18RTRMSN** Satin Nickel
**SMX18RTRMTBZ** Tuscan Bronze
**SMX18STRMMW** Paintable Matte White
**SMX18STRMMB** Matte Black
**SMX18STRMSN** Satin Nickel
**SMX18STRMTBZ** Tuscan Bronze

### Accessories – 3D Printed Decorative Trim Shades (order separately)

Snap-on 3D printed shades designed to fit HALO SMX Surface Mount downlights, adding depth, texture, and a more architectural look. Easily upgrade the fixture's appearance with distinctive forms that bring a custom, design-forward feel to any space.

| Accessories | | | | |
|---|---|---|---|---|
| Catalog Number | Description | Finish | Diameter | Height |
| SMX1810 | 18" SMX 3DP Trim Mini Drop | Clear | 18" | 1.86" |
| SMX1820 | 18" SMX 3DP Trim Drop | Clear | 18" | 2.84" |
| SMX1840 | 18" SMX 3DP Trim Bowl | Clear | 18" | 2.92" |



**SMX1810** Mini Drop
**SMX1820** Drop
**SMX1840** Bowl

### Accessories – Emergency Power (order separately)

Emergency power to connected fixtures during outages. Automatically switches on and dims fixtures for extended runtime.

| Emergency Power Accessories | |
|---|---|
| Catalog Number | Description |
| INVM-10W-AD | Single Phase 0-10V Auto Dimming (can power up to 1 SMX 18" fixtures) |
| INVM-25W-ADSD | Single Phase 0-10V Auto Dimming (can power up to 8 SMX 18" fixtures) |



**SMX1810** Mini Drop



**SMX1820** Drop



**SMX1840** Bowl

## Compatible Junction Boxes[2]



**Octagon**
**Steel Light Fixture w/Fan Box**
4" x 4" x 2-1/8"



**Round**
**New Work Fixture Box (Plastic)**
4" Diameter x 2-3-16"



**Round**
**New Work Ceiling Box (Plastic)**
3-1/2" Diameter x 2-3-4"



**Round**
**Old Work Box (Plastic)**
4-1/4" Diameter flange (3-1/2" I.D.) x 2-3-4"



**Round**
**New Work Fixture Box (Plastic) w/Bar Hanger**
4" x 2-3/16"



**TP316**
**For non-metallic cable**
4" x 4" x 2-1/8"



**TP317**
**For metal clad cable**
4" x 4" x 2-1/8"



**JB4FR2**
**4" NC JBox for Fire Rated Ceilings**
4" diameter x 5-1/2"
(102mm x 140mm)

2. This is a representative list of compatible junction boxes only. Information contained in this literature about other manufacturers' products is from published information made available by the manufacturer and is deemed to be reliable, but has not been verified. Cooper Lighting Solutions makes no specific recommendation on product selection and there are no warranties of performance or compatibility implied. Installer must determine that site conditions are suitable to allow proper installation of the mounting bracket in the box.

# Product Specifications

### Module
- The LED surface mount downlight consists of an LED array, optical assembly, driver, and edgeless trim
- Achieves L70 at 50,000 hrs in IC (insulation contact) and non-IC applications

### Selectable System
- Use the CCT select switch to choose between Dim-to-Warm (D2W), 2700K, 3000K, 3500K, 4000K, and 5000K CCT
  - **Note:** D2W only available for phase cut fixtures
- Dim-to-Warm option starts at 3000K and warms to 1800K as the fixture dims
- Factory default is set to 3000K
- Use the 3-position Lumen Select switch to choose the brightness level (Low, Medium, High)
- Lumen Select factory default is to the highest lumen option

### LED Array
- Mid-power LED array provides a uniform light source with high efficiency and no pixilation
- 90+ CRI minimum, R9 greater than 50
- Color accuracy at 3SCDM at the end points provides color consistency and uniformity

### Driver
- Integral 120V 60Hz constant current driver provides noise-free, high-efficiency operation
- Phase Cut Dimming: Continuous, flicker-free dimming from 100% to 5% with compatible leading or trailing edge (LE/TE) 120V phase cut dimmers; (See Dimming Guide for compatible dimmers.)
- 0-10V Dimming: Continuous, flicker-free diming from 100% to 5% with compatible 0-10V 120-277V dimmer; (See Dimming Guide for compatible dimmers.)
  - **Tip:** For optimal dimming performance, consider dimmers with low-end trim adjustment; Note that some dimmers require a neutral wire in the box.
- **Wiring:** Includes optional inline electrical orange LED Quick Connect

### Electrical Junction Box Mounting
- Twist and lock steel mounting bracket to fit snugly to the ceiling
- Installs from below the ceiling in most 30 (3-1/2") and 40 (4") standard round/octagonal junction boxes along with compact (pancake) junction boxes
- May be used in compatible electrical junction boxes in direct contact with insulation, including spray foam insulation
- Installer must ensure compatibility of fit, wiring, and proper mounting in the electrical junction box. This includes all applicable national and local electrical along with building coded NEMA LSD 57-2013.
- Reference installation instructions for complete mounting steps

### Gasket
- Closed-cell gasket achieves restrictive airflow requirements without additional caulking.

### Decorative Overlays (sold separately)
- Overlays cover the edge of the fixture while maintaining the edgeless design and are sold as an accessory for a designer finish
  - Paintable Matte White
  - Satin Nickel
  - Matte Black

### Emergency Mini Inverter
- Provides 90 minutes of 10VA emergency power to lighting fixtures
- 0-10V Auto dimming allows up to 50VA max dimmable load
- 10VA max non-dimmable load
- Automatic 120VAC or 277VAC output power to driver or ballast means easy field install
- UL924 and CSA 22.2 No.141 listed for field or factory installation
- Remote mounting up to 250feet
- Maintenance free lithium-ion battery
- See Mini Inverter Spec Sheet for more information

### Compliance
- cULus certified for US and Canada
- Wet Location listed for showers and covered outdoor ceilings
- Airtight per ASTM-E283 (no gasket necessary)
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
- EMI/RFI emissions per FCC 47CFR Part 15 consumer limits
- Contains no mercury or lead and RoHS compliant[1]
- Photometric testing in accordance with IES LM-79-08
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11
- Can be used for State of California Title 24 high efficacy LED compliance under JA8[1], reference Modernized Appliance Efficiency Database System (MAEDBS) for 2022 JA8 High Efficacy Lighting

### Warranty
- Five year limited warranty, consult website for details. www.cooperlighting.com/warranty

1. T24 and RoHS are self-tested by Cooper Lighting Solutions. Not a third party certification.

## Energy Data

| | 120V (Triac) | | 120V-277V (0-10V) | | | |
|---|---|---|---|---|---|---|
| | Round | Square | Round | | Square | |
| | SMX18RLSFSD2W | SMX18SLSFSD2W | SMX18RLSFS010 | | SMX18SLSFS010 | |
| Lumens | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| Input Voltage (V) | 120V | 120V | 120V | 277V | 120V | 277V |
| Input Current (A) | 0.14233A | 0.14133A | 0.14233A | 0.068A | 0.1472A | 0.069A |
| Input Power (W) | 16.54W | 16.4W | 16.54W | 18.33W | 17.58W | 18.17W |
| Efficiency | 84.99% | 84.95% | 84.70% | 84% | 84.90% | 84.60% |
| Inrush (A) | 1.51A@130usec | 1.51A@130usec | 3.3A@57usec | 4.8A@68usec | 3.1A@56usec | 4.6A@63usec |
| THDi (%) | 11.95% | 12.01% | 7.50% | 16.40% | 7.30% | 16.30% |
| PF | 0.969 | 0.967 | 0.969 | 0.936 | 0.996 | 0.935 |
| T Ambient | -30 to +40 °C | -30 to +40 °C | -30 to +40 °C | -30 to +40 °C | -30 to +40 °C | -30 to +40 °C |
| Sound Rating | <22dBA | <22dBA | <22dBA | <22dBA | <22dBA | <22dBA |
| Efficacy(LPW) | 98.15 | 95.66 | 98.15 | 98.15 | 103.3 | 103.3 |
| Lumens | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| Input Voltage (V) | 120V | 120V | 120V | 277V | 120V | 277V |
| Input Current (A) | 0.19987A | 0.19783A | 0.19987A | 0.089A | 0.19873A | 0.087A |
| Input Power (W) | 23.53W | 23.26W | 23.53W | 24.45W | 23.73W | 24.28W |
| Efficiency | 84.30% | 84.48% | 85.10% | 85.50% | 84.80% | 85.30% |
| Inrush (A) | 1.51A@130usec | 1.51A@130usec | 3.3A@57usec | 4.8A@68usec | 3.1A@56usec | 4.6A@63usec |
| THDi (%) | 11.12% | 11.31% | 9.20% | 11.60% | 9.40% | 11.40% |
| PF | 0.981 | 0.98 | 0.981 | 0.961 | 0.996 | 0.963 |
| T Ambient | -30 to +40 °C | -30 to +40 °C | -30 to +40 °C | -30 to +40 °C | -30 to +40 °C | -30 to +40 °C |
| Sound Rating | <22dBA | <22dBA | <22dBA | <22dBA | <22dBA | <22dBA |
| Efficacy(LPW) | 95.25 | 93.04 | 95.25 | 95.25 | 100.45 | 100.45 |
| Lumens | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Input Voltage (V) | 120V | 120V | 120V | 277V | 120V | 277V |
| Input Current (A) | 0.25187A | 0.25063A | 0.25187A | 0.109A | 0.24837A | 0.111A |
| Input Power (W) | 29.79W | 29.63W | 29.79W | 30.57W | 29.63W | 30.49W |
| Efficiency | 83.68% | 83.63% | 85.30% | 86.10% | 85.30% | 86.10% |
| Inrush (A) | 1.51A@130usec | 1.51A@130usec | 3.3A@57usec | 4.8A@68usec | 3.1A@56usec | 4.6A@63usec |
| THDi (%) | 11.08% | 11.24% | 10.20% | 9.30% | 9.60% | 9.20% |
| PF | 0.986 | 0.985 | 0.986 | 0.978 | 0.995 | 0.977 |
| T Ambient | -30 to +40 °C | -30 to +40 °C | -30 to +40 °C | -30 to +40 °C | -30 to +40 °C | -30 to +40 °C |
| Sound Rating | <22dBA | <22dBA | <22dBA | <22dBA | <22dBA | <22dBA |
| Efficacy(LPW) | 91.89 | 89.73 | 91.89 | 91.89 | 97.32 | 97.32 |

SMX18RLSFSD2W *(Equivalent to 125W Incandescent)*

| CCT | Watts | Lumens | LPW | CRI |
|---|---|---|---|---|
| 2700K | 30.3 | 2565 | 84.7 | 93 |
| 3000K | 30.4 | 2640 | 86.8 | 94 |
| 3500K | 30.4 | 2695 | 88.7 | 95 |
| 4000K | 30.5 | 2750 | 90.2 | 95 |
| 5000K | 30.2 | 2815 | 93.2 | 92 |

SMX18SLSFSD2W *(Equivalent to 125W Incandescent)*

| CCT | Watts | Lumens | LPW | CRI |
|---|---|---|---|---|
| 2700K | 29.7 | 2475 | 83.3 | 93 |
| 3000K | 30.0 | 2530 | 84.3 | 94 |
| 3500K | 30.0 | 2585 | 86.2 | 95 |
| 4000K | 30.0 | 2630 | 87.7 | 94 |
| 5000K | 29.7 | 2700 | 90.9 | 93 |

SMX18RLSFS010 *(Equivalent to 125W Incandescent)*

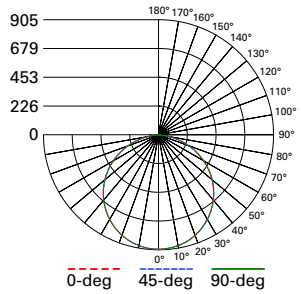
| CCT | Watts | Lumens | LPW | CRI |
|---|---|---|---|---|
| 2700K | 29.4 | 2755 | 93.7 | 93 |
| 3000K | 29.4 | 2805 | 95.4 | 94 |
| 3500K | 29.4 | 2870 | 97.6 | 95 |
| 4000K | 29.4 | 2930 | 99.7 | 94 |
| 5000K | 29.3 | 3000 | 102.4 | 93 |

SMX18SLSFS010 *(Equivalent to 125W Incandescent)*

| CCT | Watts | Lumens | LPW | CRI |
|---|---|---|---|---|
| 2700K | 30.0 | 2735 | 91.2 | 92 |
| 3000K | 30.0 | 2800 | 93.3 | 94 |
| 3500K | 30.0 | 2870 | 95.7 | 94 |
| 4000K | 30.0 | 2930 | 97.7 | 94 |
| 5000K | 30.0 | 3005 | 100.2 | 92 |

## Photometric Data

View IES files




**SMX18RLSFSD2W-2500LM-3000K**

Spacing criterion:
(0-180) 1.27 | (90-270) 1.27 | (Diagonal) 1.39
Beam Angle: 115°
Field Angle: 162°
Lumens: 2640
Input Watts: 30.4 W
Efficacy: 86.8 LPW
UGR: 19
Test Report: P869722

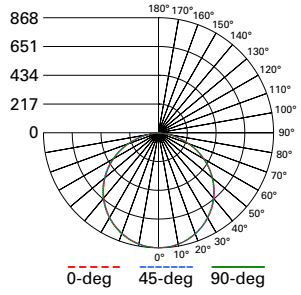
| Zonal Lumen | Lumens | % Lumens |
|---|---|---|
| 0-30 | 706 | 26.7 |
| 0-40 | 1161 | 44 |
| 0-60 | 2072 | 78.5 |
| 0-90 | 2640 | 100 |

CCT: Range of 2700K - 5000K

Dim-to-Warm: Range of 1800K - 3000K

| | |
|---|---|
| TM-30-15 | Rf = 92 |
| | Rg = 99 |
| CRI/CIE | Ra = 95.5 |
| | R9 = 72.6 |




**SMX18SLSFSD2W-2500LM-3000K**

Spacing criterion:
(0-180) 1.27 | (90-270) 1.27 | (Diagonal) 1.39
Beam Angle: 115°
Field Angle: 162°
Lumens: 2530
Input Watts: 30 W
Efficacy: 84.3 LPW
UGR: 18
Test Report: P869752

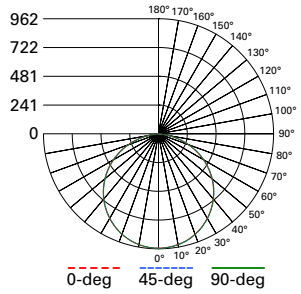
| Zonal Lumen | Lumens | % Lumens |
|---|---|---|
| 0-30 | 676 | 26.7 |
| 0-40 | 1112 | 43.9 |
| 0-60 | 1985 | 78.5 |
| 0-90 | 2530 | 100 |

CCT: Range of 2700K - 5000K

Dim-to-Warm: Range of 1800K - 3000K

| | |
|---|---|
| TM-30-15 | Rf = 92 |
| | Rg = 99 |
| CRI/CIE | Ra = 95.2 |
| | R9 = 71 |




**SMX18RLSFS010-2500LM-3000K**

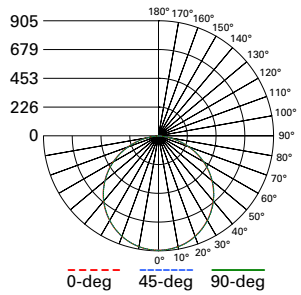
Spacing criterion:
(0-180) 1.27 | (90-270) 1.27 | (Diagonal) 1.39
Beam Angle: 115°
Field Angle: 162°
Lumens: 2805
Input Watts: 29.4 W
Efficacy: 95.4 LPW
UGR: 19
Test Report: P869707

| Zonal Lumen | Lumens | % Lumens |
|---|---|---|
| 0-30 | 750 | 26.7 |
| 0-40 | 1233 | 44 |
| 0-60 | 2201 | 78.5 |
| 0-90 | 2805 | 100 |

CCT: Range of 2700K - 5000K

| | |
|---|---|
| TM-30-15 | Rf = 92 |
| | Rg = 99 |
| CRI/CIE | Ra = 95.5 |
| | R9 = 72.6 |




**SMX18SLSFS010-2500LM-3000K**

Spacing criterion:
(0-180) 1.27 | (90-270) 1.27 | (Diagonal) 1.39
Beam Angle: 115°
Field Angle: 162°
Lumens: 2800
Input Watts: 30 W
Efficacy: 93.3 LPW
UGR: 18
Test Report: P869737

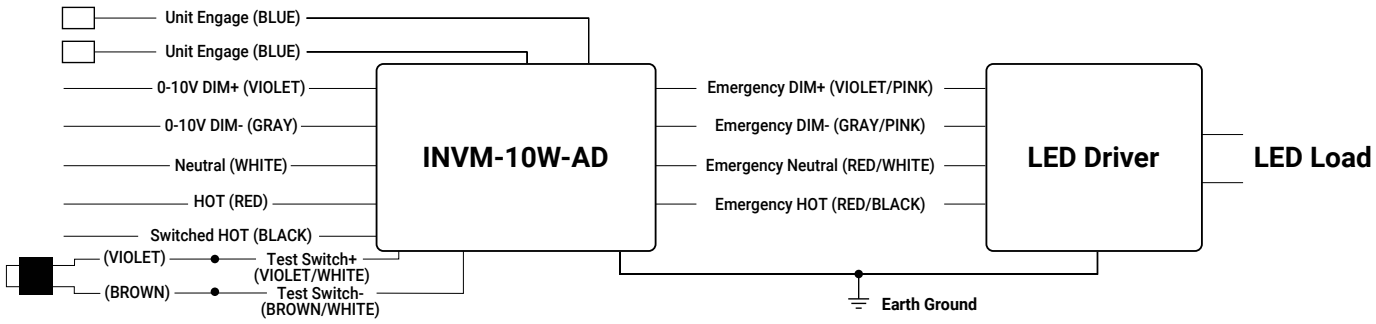
| Zonal Lumen | Lumens | % Lumens |
|---|---|---|
| 0-30 | 748 | 26.7 |
| 0-40 | 1230 | 43.9 |
| 0-60 | 2197 | 78.5 |
| 0-90 | 2800 | 100 |

CCT: Range of 2700K - 5000K

| | |
|---|---|
| TM-30-15 | Rf = 92 |
| | Rg = 99 |
| CRI/CIE | Ra = 95.2 |
| | R9 = 71 |



## Mini Inverter Schematic






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Specifications and dimensions subject to change without notice.