

DESCRIPTION

The Halo Surface LED Downlight (SLD) incorporates WaveStream™ technology to create an ultra-low profile surface mounting luminaire with the performance and look of a traditional downlight. SLD4 is designed for installation in many 3-1/2" and 4" round or octagon junction boxes. Dedicated LED wiring connector meets high-efficacy code requirement in recessed downlighting. Suitable for residential or commercial installations. Ideal for closets, storage areas, attics and basements. Compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5).

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

SPECIFICATION FEATURES

CONSTRUCTION

- Die cast aluminum trim ring and die formed aluminum frame

OPTICS

- WaveStream™ technology provides uniform luminance from a low profile flat lens
- AccuAim™ optics provide directional control for the "cone-of-light" beam distribution of a traditional downlight
- Precision molded lens features high transmission polymer with UV stabilized protecting film

DESIGNER TRIMS

Accessories (sold separately)

SLD designer trims are accessory rings that attach to the SLD for a permanent finish. Refer to SLD accessories specification sheet for details.

- White (Paintable)
- Satin Nickel
- Tuscan Bronze

ELECTRICAL JUNCTION BOX MOUNTING

- SLD may be used in compatible electrical junction boxes in direct contact with insulation including spray foam insulation
- Suitable for installation in many 3-1/2" and 4" octagon and round electrical junction boxes.
Note: Driver consumes 3 cubic inches of junction box.
- Surface mounting in a fire-rated ceiling using an appropriate electrical box offers a cost-effective alternative to fire-rated recessed housings
Note: Fire-rating is per the rating of the ceiling and applicable junction box, not the SLD.
- Installer must ensure compatibility of fit, wiring and proper mounting in the

electrical junction box. This includes all applicable national and local electrical and building codes

- Proprietary Slot-N-Lock quick installation system for junction box installation
- T-bracket with Slot-N-Lock mounting tabs included

LED

- Trilateral linear LED assembly is integrated in trim perimeter.
- Color Temperature: 2700K, 3000K, 3500K, 4000K
- CRI options: 80 and 90
 - 90 CRI can be used for California Title 24 compliance/certified to Title 20
 - 80 CRI can be used to comply with California Title 24 Non-Residential Lighting Controls as a LED luminaire.
- L70 at 50,000 hours projected in accordance with TM-21

WARRANTY

Cooper Lighting provides a five year limited warranty on the SLD LED

LED CHROMATICITY

- A tight chromaticity specification ensures LED color uniformity, sustainable Color Rendering Index (CRI) and Correlated Color Temperature (CCT) over the useful life of the LED
- LED chromaticity of 3 SDCM exceeds ENERGY STAR® color standards per ANSI C78.377-2008
- 90 CRI model features high color performance with R9 greater than 50
- Every Halo LED is quality tested, measured, and serialized in a permanent record to register lumens, wattage, CRI and CCT.

- Halo LED serialized testing and measurement ensures color and lumen consistency on a per-unit basis, and validates long-term product consistency over time

ELECTRICAL CONNECTIONS Junction Box

- Compatible with many 3-1/2" x 2" and 4" x 1-1/2" round and octagon boxes (2-1/8" deep boxes recommended)
- Supply Wire Adapter with LED quick connector included

LED DRIVER

- Driver is a 120V input high efficiency, dimmable electronic power supply providing DC power to the LED array
- Driver features high power factor, low THD, and has integral thermal protection in the event of over temperature or internal failure.
- Driver is replaceable if it should be required

DIMMING

- Designed for continuous dimming capability to nominally 5% with many 120V Leading Edge (LE) and Trailing Edge (TE) phase control dimmers. Dimming to 5% is best assured using dimmers with low end trim adjustment. Consult dimmer manufacturer for compatibility and conditions of use. (Note some dimmers require a neutral in the wallbox.)

COMPLIANCE

- cULus Listed ceiling and wall
- cULus Damp Location listed ceiling and wall
- cULus Wet Location Listed, ceiling only (shower rated)

continued...



SLD4058xxWHJB

80CRI
2700K, 3000K, 3500K,
and 4000K

SLD4059xxWHJB

90CRI
2700K, 3000K, 3500K,
and 4000K

4" Surface LED Downlight

Suitable for ceiling or wall electrical junction boxes

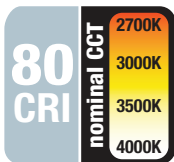
ENERGY DATA

| | 80 CRI | 90 CRI |
|---------------------------|-------------|----------|
| Lumens (4000K models) | 800 | 710 |
| Input Voltage | 120V | 120V |
| Frequency | 50/60 Hz | 50/60 Hz |
| Input Current | 0.10 A | 0.10 A |
| Input Power | 12.2 W | 12 W |
| Efficiency (4000K models) | 66 lm/W | 59 lm/W |
| THD | ≤ 20% | |
| Power Factor | ≥ 0.90 | |
| T Ambient | -30 - +40°C | |
| Sound Rating | Class A | |

NOMENCLATURE

SLD405830WHJB

405 = 4" SLD
8 = >80 CRI
30 = 3000K
WH = Matte White
JB = Junction Box kit only



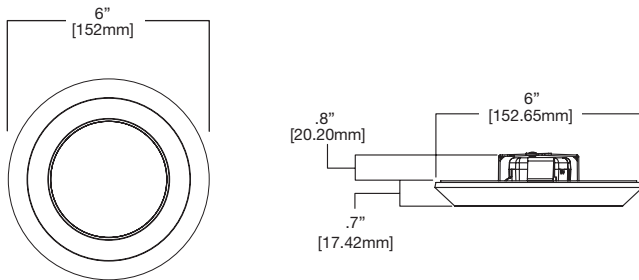
Refer to ENERGY STAR® Certified Products List.
Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire.



Refer to ENERGY STAR® Certified Products List.
Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Title 20 Appliance Efficiency Database.

- Suitable for use in closets, compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5)
- SLD may be used in compatible electrical junction boxes in direct contact with insulation including spray foam insulation
- EMI/RFI: meets FCC 47CFR Part 15 Class B limits, and is suitable for use in residential and commercial installations
- Airtight certified per ASTM E283 (not exceeding 2.0 CFM under 57 Pascals pressure difference)
- 90 CRI: Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Title 20 Appliance Efficiency Database.
- 80 CRI: Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED luminaire.
- Can be used for International Energy Conservation Code (IECC) and Washington State Energy Code high efficiency luminaire compliance
- ENERGY STAR® Certified luminaire - consult ENERGY STAR® Certified Product List
- Contains no mercury or lead and RoHS compliant.
- Photometric testing in accordance with IES LM-79
- Lumen maintenance projections in accordance with IES LM-80 and TM-21

DIMENSIONS



SLD4058xxWHJB

80CRI
2700K, 3000K, 3500K,
and 4000K

SLD4059xxWHJB

90CRI
2700K, 3000K, 3500K,
and 4000K

**4" Surface LED
Downlight**

**Suitable for
ceiling or wall
electrical junction boxes**

ORDERING INFORMATION

SAMPLE NUMBER: SLD405830WHJB

Order junction box separately, as supplied by others, to complete installation.

| Models | Color Rendering Index | Color Temperature (CCT) | Finish | JB |
|--|-----------------------|--|----------|---------------------|
| SLD405= 4" Surface LED Downlight, 120V | 8=80 CRI 9=90 CRI | 27=2700K 30=3000K 35=3500K 40=4000K | WH=White | JB=Junction Box kit |

Accessories

Designer Trims

Fit over the SLD4 for a designer finish

SLD4TRMSN=4" SLD Satin Nickel

SLD4TRMTBZ=4" SLD Tuscan Bronze

SLD4TRMWH=4" SLD White (paintable)

J-Box Spacer Extension Ring

Add 15/16" depth when SLD driver cannot fit into installed junction box

SLD4EXT=4" Surface LED J-Box Extender, 7.75" O.D.

RAD Adapters

When junction box is mounted flat on a ceiling or beam surface (not recessed in ceiling)

SLD4RAD=4" SLD Round Surface J-Box Adapter,

6.15" O.D. (For 4-inch round or octagon junction boxes)

Spare Parts

SLD4ACCKIT=4" Accessory Parts Replacement Kit (Screwbase adapter, torsion springs, friction blades)

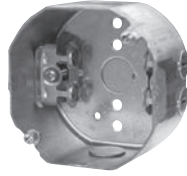
SLD4BRKT=4" Junction Box Bracket & Screws

Refer to SLD Accessories specification sheet for further information.

COMPATIBLE WITH EATON'S CROUSE-HINDS JUNCTION BOXES



TP316
for non-metallic cable
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)



TP317
for metal clad cable
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)

- **TP316** - for non-metallic cable
- **TP317** - for metal clad cable
- UL Listed
- Suitable for two-hour fire-rated ANSI/UL 263 when properly installed in a fire-rated ceiling or wall
- Refer to www.crouse-hinds.com

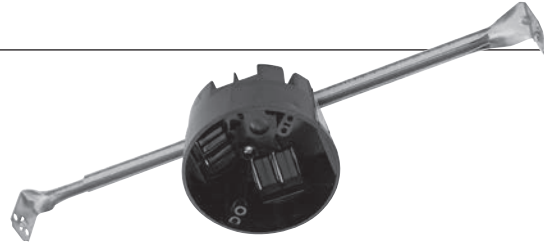
COMPATIBLE WITH MANY OTHER JUNCTION BOXES*



4" octagon light fixture/fan steel box
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)



4" octagon steel box
4" x 4" x 1-1/2"
(102mm x 102mm x 38mm)



4" round new work non-metallic box with hanger bar assembly
4" diameter x 2-3/16" (102mm x 56mm)



4" round new work non-metallic light fixture/fan box
4" diameter x 2-3/16"
(102mm x 56mm)



3-1/2" round new work non-metallic ceiling box
3-1/2" diameter x 2-3/4"
(89mm x 70mm)



3-1/2" round old work non-metallic box
4-1/4" O.D. flange, 3-1/2" I.D. x 2-5/8"
(108mm O.D., 89mm I.D. x 67mm)



4" round surface mount box
4" diameter x 1-1/2"
(102mm x 38mm)
Requires SLD4RAD adapter

Surface mounting in a fire-rated ceiling using an appropriate electrical box offers a cost-effective alternative to fire-rated recessed housings.

Note: Fire-rating is per the rating of the ceiling and applicable junction box, not the SLD.

*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. Eaton 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 SLD mounting bracket in the box.

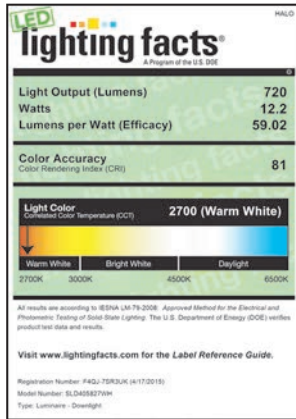
PRODUCT DATA

| Cat No. | CRI | CCT | Lumens | Power (W) | LPW |
|-------------|-----|------|--------|-----------|-----|
| SLD405827WH | 81 | 2700 | 720 | 12.2 | 59 |
| SLD405830WH | 81 | 3000 | 750 | 12.2 | 61 |
| SLD405835WH | 81 | 3500 | 780 | 12.2 | 64 |
| SLD405840WH | 81 | 4000 | 800 | 12.2 | 66 |
| SLD405927WH | 92 | 2700 | 650 | 12 | 54 |
| SLD405930WH | 92 | 3000 | 670 | 12 | 56 |
| SLD405935WH | 92 | 3500 | 690 | 12 | 58 |
| SLD405940WH | 92 | 4000 | 710 | 12 | 59 |

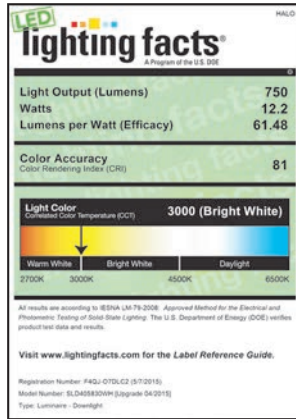
Performance values are presented as typical for the model(s) indicated. Field results may vary.

LIGHTING FACTS®

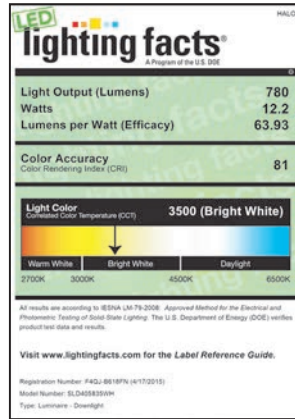
SLD405827WH - 80 CRI



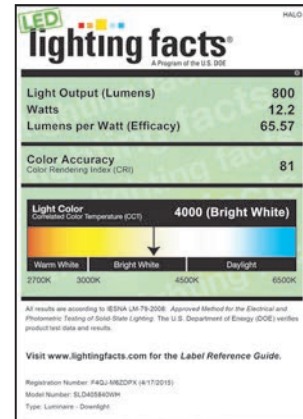
SLD405830WH - 80 CRI



SLD405835WH - 80 CRI



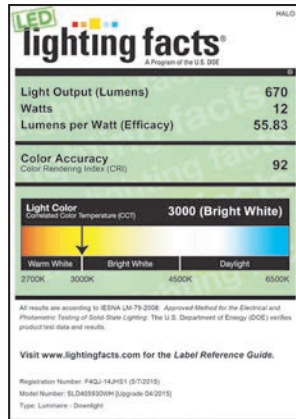
SLD405840WH - 80 CRI



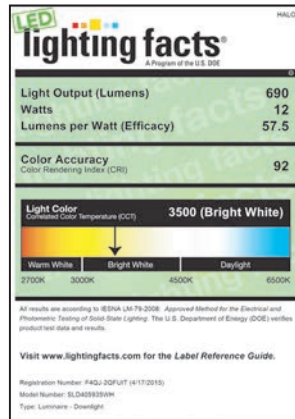
SLD405927WH - 90 CRI



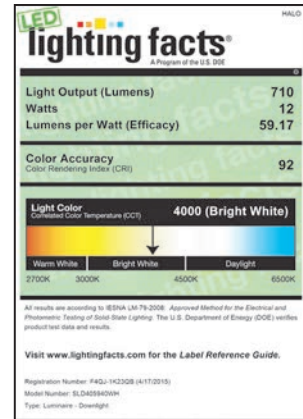
SLD405930WH - 90 CRI



SLD405935WH - 90 CRI



SLD405940WH - 90 CRI



DESCRIPTION

The Halo Surface LED Downlight (SLD) incorporates WaveStream™ technology to create an ultra-low profile surface mounting luminaire with the performance and look of a traditional downlight. SLD4 is designed for installation in many 3-1/2" and 4" round or octagon junction boxes. Dedicated LED wiring connector meets high-efficacy code requirement in recessed downlighting. Suitable for residential or commercial installations. Ideal for closets, storage areas, attics and basements. Compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5).

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

SPECIFICATION FEATURES

CONSTRUCTION

- Die cast aluminum trim ring and die formed aluminum frame

OPTICS

- WaveStream™ technology provides uniform luminance from a low profile flat lens
- AccuAim™ optics provide directional control for the "cone-of-light" beam distribution of a traditional downlight
- Precision molded lens features high transmission polymer with UV stabilized protecting film

DESIGNER TRIMS

Accessories (sold separately)

SLD designer trims are accessory rings that attach to the SLD for a permanent finish. Refer to SLD accessories specification sheet for details.

- White (Paintable)
- Satin Nickel
- Tuscan Bronze

ELECTRICAL JUNCTION BOX MOUNTING

- SLD may be used in compatible electrical junction boxes in direct contact with insulation including spray foam insulation
- Suitable for installation in many 3-1/2" and 4" octagon and round electrical junction boxes.
Note: Driver consumes 3 cubic inches of junction box.
- Surface mounting in a fire-rated ceiling using an appropriate electrical box offers a cost-effective alternative to fire-rated recessed housings
Note: Fire-rating is per the rating of the ceiling and applicable junction box, not the SLD.
- Installer must ensure compatibility of fit, wiring and proper mounting in the

electrical junction box. This includes all applicable national and local electrical and building codes

- Proprietary Slot-N-Lock quick installation system for junction box installation
- T-bracket with Slot-N-Lock mounting tabs included

LED

- Trilateral linear LED assembly is integrated in trim perimeter.
- Color Temperature: 2700K, 3000K, 3500K, 4000K
- CRI options: 80 and 90
 - 90 CRI can be used for California Title 24 compliance/certified to Title 20
 - 80 CRI can be used to comply with California Title 24 Non-Residential Lighting Controls as a LED luminaire.
- L70 at 50,000 hours projected in accordance with TM-21

WARRANTY

Cooper Lighting provides a five year limited warranty on the SLD LED

LED CHROMATICITY

- A tight chromaticity specification ensures LED color uniformity, sustainable Color Rendering Index (CRI) and Correlated Color Temperature (CCT) over the useful life of the LED
- LED chromaticity of 3 SDCM exceeds ENERGY STAR® color standards per ANSI C78.377-2008
- 90 CRI model features high color performance with R9 greater than 50
- Every Halo LED is quality tested, measured, and serialized in a permanent record to register lumens, wattage, CRI and CCT.

- Halo LED serialized testing and measurement ensures color and lumen consistency on a per-unit basis, and validates long-term product consistency over time

ELECTRICAL CONNECTIONS Junction Box

- Compatible with many 3-1/2" x 2" and 4" x 1-1/2" round and octagon boxes (2-1/8" deep boxes recommended)
- Supply Wire Adapter with LED quick connector included

LED DRIVER

- Driver is a 120V input high efficiency, dimmable electronic power supply providing DC power to the LED array
- Driver features high power factor, low THD, and has integral thermal protection in the event of over temperature or internal failure.
- Driver is replaceable if it should be required

DIMMING

- Designed for continuous dimming capability to nominally 5% with many 120V Leading Edge (LE) and Trailing Edge (TE) phase control dimmers. Dimming to 5% is best assured using dimmers with low end trim adjustment. Consult dimmer manufacturer for compatibility and conditions of use. (Note some dimmers require a neutral in the wallbox.)

COMPLIANCE

- cULus Listed ceiling and wall
- cULus Damp Location listed ceiling and wall
- cULus Wet Location Listed, ceiling only (shower rated)

continued...



SLD4058xxWHJB

80CRI
2700K, 3000K, 3500K,
and 4000K

SLD4059xxWHJB

90CRI
2700K, 3000K, 3500K,
and 4000K

4" Surface LED Downlight

Suitable for ceiling or wall electrical junction boxes

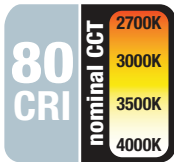
ENERGY DATA

| | 80 CRI | 90 CRI |
|---------------------------|-------------|----------|
| Lumens (4000K models) | 800 | 710 |
| Input Voltage | 120V | 120V |
| Frequency | 50/60 Hz | 50/60 Hz |
| Input Current | 0.10 A | 0.10 A |
| Input Power | 12.2 W | 12 W |
| Efficiency (4000K models) | 66 lm/W | 59 lm/W |
| THD | ≤ 20% | |
| Power Factor | ≥ 0.90 | |
| T Ambient | -30 - +40°C | |
| Sound Rating | Class A | |

NOMENCLATURE

SLD405 8 30 WH JB

405 = 4" SLD
8 = >80 CRI
30 = 3000K
WH = Matte White
JB = Junction Box kit only



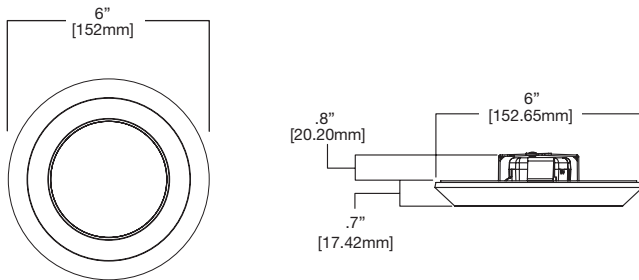
Refer to ENERGY STAR® Certified Products List. Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire.



Refer to ENERGY STAR® Certified Products List. Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Title 20 Appliance Efficiency Database.

- Suitable for use in closets, compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5)
- SLD may be used in compatible electrical junction boxes in direct contact with insulation including spray foam insulation
- EMI/RFI: meets FCC 47CFR Part 15 Class B limits, and is suitable for use in residential and commercial installations
- Airtight certified per ASTM E283 (not exceeding 2.0 CFM under 57 Pascals pressure difference)
- 90 CRI: Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Title 20 Appliance Efficiency Database.
- 80 CRI: Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED luminaire.
- Can be used for International Energy Conservation Code (IECC) and Washington State Energy Code high efficiency luminaire compliance
- ENERGY STAR® Certified luminaire - consult ENERGY STAR® Certified Product List
- Contains no mercury or lead and RoHS compliant.
- Photometric testing in accordance with IES LM-79
- Lumen maintenance projections in accordance with IES LM-80 and TM-21

DIMENSIONS



ORDERING INFORMATION

SAMPLE NUMBER: SLD405830WHJB

Order junction box separately, as supplied by others, to complete installation.

| Models | Color Rendering Index | Color Temperature (CCT) | Finish | JB |
|--|-----------------------|--|----------|---------------------|
| SLD405= 4" Surface LED Downlight, 120V | 8=80 CRI 9=90 CRI | 27=2700K 30=3000K 35=3500K 40=4000K | WH=White | JB=Junction Box kit |

Accessories

Designer Trims

Fit over the SLD4 for a designer finish

SLD4TRMSN=4" SLD Satin Nickel

SLD4TRMTBZ=4" SLD Tuscan Bronze

SLD4TRMWH=4" SLD White (paintable)

J-Box Spacer Extension Ring

Add 15/16" depth when SLD driver cannot fit into installed junction box

SLD4EXT=4" Surface LED J-Box Extender, 7.75" O.D.

RAD Adapters

When junction box is mounted flat on a ceiling or beam surface (not recessed in ceiling)

SLD4RAD=4" SLD Round Surface J-Box Adapter,

6.15" O.D. (For 4-inch round or octagon junction boxes)

Spare Parts

SLD4ACCKIT=4" Accessory Parts Replacement Kit (Screwbase adapter, torsion springs, friction blades)

SLD4BRKT=4" Junction Box Bracket & Screws

Refer to SLD Accessories specification sheet for further information.



SLD4058xxWHJB

80CRI

2700K, 3000K, 3500K,
and 4000K

SLD4059xxWHJB

90CRI

2700K, 3000K, 3500K,
and 4000K

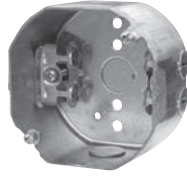
**4" Surface LED
Downlight**

**Suitable for
ceiling or wall
electrical junction boxes**

COMPATIBLE WITH EATON'S CROUSE-HINDS JUNCTION BOXES



TP316
for non-metallic cable
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)



TP317
for metal clad cable
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)

- **TP316** - for non-metallic cable
- **TP317** - for metal clad cable
- UL Listed
- Suitable for two-hour fire-rated ANSI/UL 263 when properly installed in a fire-rated ceiling or wall
- Refer to www.crouse-hinds.com

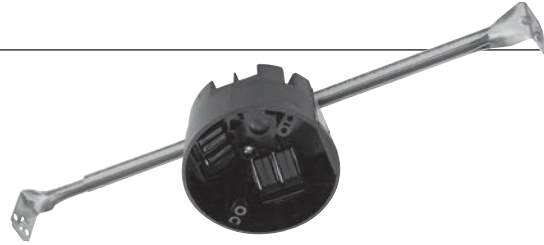
COMPATIBLE WITH MANY OTHER JUNCTION BOXES*



4" octagon light fixture/fan steel box
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)



4" octagon steel box
4" x 4" x 1-1/2"
(102mm x 102mm x 38mm)



4" round new work non-metallic box with hanger bar assembly
4" diameter x 2-3/16" (102mm x 56mm)



4" round new work non-metallic light fixture/fan box
4" diameter x 2-3/16"
(102mm x 56mm)



3-1/2" round new work non-metallic ceiling box
3-1/2" diameter x 2-3/4"
(89mm x 70mm)



3-1/2" round old work non-metallic box
4-1/4" O.D. flange, 3-1/2" I.D. x 2-5/8"
(108mm O.D., 89mm I.D. x 67mm)



4" round surface mount box
4" diameter x 1-1/2"
(102mm x 38mm)
Requires SLD4RAD adapter

Surface mounting in a fire-rated ceiling using an appropriate electrical box offers a cost-effective alternative to fire-rated recessed housings.

Note: Fire-rating is per the rating of the ceiling and applicable junction box, not the SLD.

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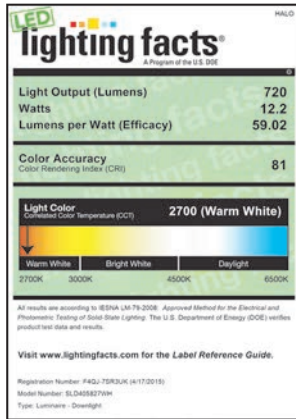
PRODUCT DATA

| Cat No. | CRI | CCT | Lumens | Power (W) | LPW |
|-------------|-----|------|--------|-----------|-----|
| SLD405827WH | 81 | 2700 | 720 | 12.2 | 59 |
| SLD405830WH | 81 | 3000 | 750 | 12.2 | 61 |
| SLD405835WH | 81 | 3500 | 780 | 12.2 | 64 |
| SLD405840WH | 81 | 4000 | 800 | 12.2 | 66 |
| SLD405927WH | 92 | 2700 | 650 | 12 | 54 |
| SLD405930WH | 92 | 3000 | 670 | 12 | 56 |
| SLD405935WH | 92 | 3500 | 690 | 12 | 58 |
| SLD405940WH | 92 | 4000 | 710 | 12 | 59 |

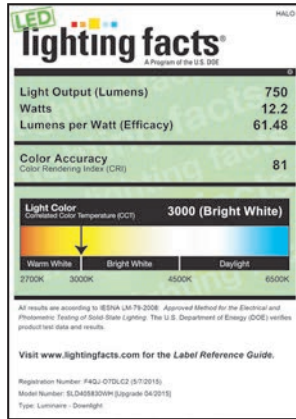
Performance values are presented as typical for the model(s) indicated. Field results may vary.

LIGHTING FACTS®

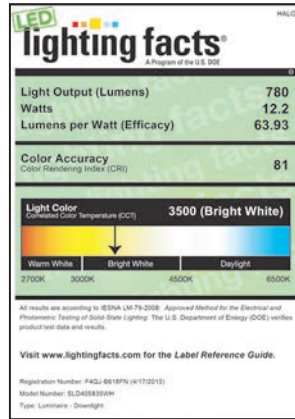
SLD405827WH - 80 CRI



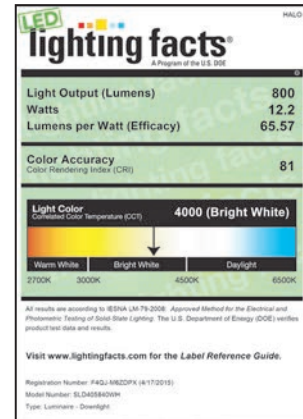
SLD405830WH - 80 CRI



SLD405835WH - 80 CRI



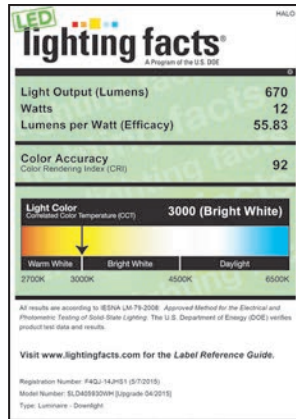
SLD405840WH - 80 CRI



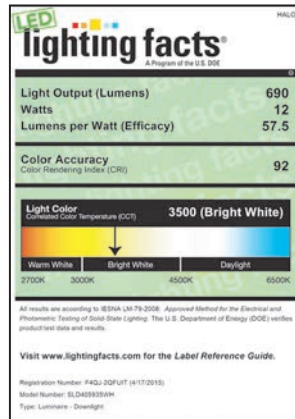
SLD405927WH - 90 CRI



SLD405930WH - 90 CRI



SLD405935WH - 90 CRI



SLD405940WH - 90 CRI

