



4" SQUARE DEEP DOWNLIGHT N-LINE 4000 LUMENS MAX

UNIVERSAL HOUSINGS WITH INTERCHANGEABLE TRIMS

Spectrum's A Spec 4" recessed square downlight series features a 2" regressed trim and variety of options for accent and general illumination.

| LUMENS AND WATTAGE CHART | | | | | |
|--------------------------|--------|----------------------------|-------------------------------|--------------|-----|
| PART NUMBER | LUMENS | SOURCE LUMENS ¹ | DELIVERED LUMENS ² | SYSTEM WATTS | LPW |
| SDD4N | XT10L | 1000 | 738 | 11.1 | 66 |
| SDD4N | XT13L | 1300 | 994 | 15.0 | 66 |
| SDD4N | XT20L | 2000 | 1529 | 23.7 | 65 |
| SDD4N | XT30L | 3000 | 2294 | 34.6 | 66 |
| SDD4N | XT40L | 4000 | 2943 | 39.9 | 74 |

PROJECT: _____

QUANTITY: _____ TYPE: _____



Lensed



Open



Adjustable

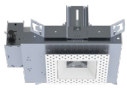


Wall Wash



AVAILABLE HOUSING TYPES

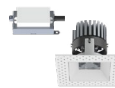
SS4NMO - New Construction / 40L Max



SS4NMI - IC New Construction / 20L Max



SS4NMR - Remodel Construction / 40L Max



Shown with N-Line Plaster Fitter

FIXTURE HOUSING SPECIFICATION

| SERIES | LUMENS ¹ | DRIVER / DIMMING / VOLTAGE | OPTIONS |
|---|---|---|---|
| SS4NMO New Construction SS4NMI IC New Construction SS4NMR Remodel Construction | XT10L 1000 Lm XT13L 1300 Lm XT20L 2000 Lm XT30L 3000 Lm XT40L 4000 Lm XN BEAM XN10L 1000 Lm XN13L 1300 Lm | E Electronic Driver DS10 10%, 0-10V DO10 1%, 0-10V DS2W1 ELV/MLV, 120V DLTE1 1% Lutron® 2-Wire Forward Phase, 120V DL3E 1% Lutron® EcoSystem® Fade EL10 1%, eldoLED ED01 0.1%, eldoLED DMXS _{4/9} DMX Standard Configuration DMXC _{4/9} DMX Non-Standard Custom BLU Bluetooth LE | H12 ² 12" - 24" Expandable Bars H06 6" - 12" Expandable Bars BH27 27" Solid Bars CB24 24" C-Channel Bars CH24 24" Chicago Bars EM ³ Integral Emergency Battery EMRM Remote Emergency Battery Pack EB Black Housing PR2 ² 2" Thick Ceiling Adaptor |
| | | 1 120V 2 277V | |

- Die-cast aluminum trim with a wide variety of options.
- Deep regressed trim.
- Universal housing accepts all trim types, including F-Line self-flange.
- Performance Xicato LED module for superior reliability and color consistency.
- Large selection of dimming and control options.
- Interchangeable optics and lenses.
- 5 year warranty on fixture and electronics.
- 10 year warranty on LED CCT.
- Bluetooth LE option.
- Sustainable fixture.
- Zhaga International Standard LED Module for future upgrades.
- 83CRI 2SDCM, 98CRI 1x2SDCM best in industry.

AVAILABLE TRIM / MODULE TYPES



TRIM / MODULE SPECIFICATION

| TRIM | CCT | OPTICS | FINISH | OPTIONS |
|---|---|---|--|--|
| SDD4N Downlight SDA4N 30° Adjustable SDW4N ¹⁰ Wall Wash | 83 CRI 27K 2700K 30K 3000K 35K 3500K 40K 4000K 98 CRI ARTIST ¹¹ 27HK 2700K 30HK 3000K 35HK 3500K 40HK 4000K | XN ¹² 13° ND 21° MD 28° WD 35° XW 55° | MW ¹³ Matte White MB Matte Black PT Platinum Silver BZ Bronze CH Charcoal OB Oil Rubbed Bronze AS Sapphire AM Malachite SN Sun Gold CO Copper Metallic GH Graphite CC ¹⁴ Custom Color | NL No Lens SO ¹⁵ Micro Prism Solite™ Lens LW ¹⁶ Wall Wash Spread Lens GL Clear Glass Lens FG Frosted Glass Lens PR2 ² 2" Thick Ceiling Adaptor WL Wet Location |

EXAMPLE: SS4NMOXT10LDS2W1/H12EM/SDD4N27KXWMWNL

NOTES:

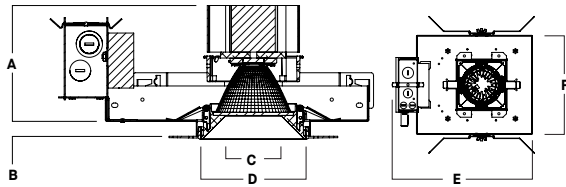
1 Nominal Source Lumens at Any CCT 2 Nominal Delivered Lumens 83 CRI at Any CCT with WD-MW-NL Trim 3 20L Max 4 Contact Factory 5 Not Available with IC 6 Standard Bar Hangers 7 Not Available in IC 8 Contact Factory 9 30L Max / No HK CCT 10 XW Optic Only / LW Lens Only 11 30L Max 12 9mm, 13L Max, All XN Draw More Watts Than Other Optics; See Photometry 13 Standard Finish 14 Contact Factory for Special Finishes 15 Standard Lens 16 Standard Lens for Wall Wash



HOUSING DIMENSIONS

SS4NMO - NEW CONSTRUCTION / 40L MAX

Non-IC rated, thermally protected frame-in kit for new construction. Non-IC designation requires insulation must be minimum of 3" from housing.



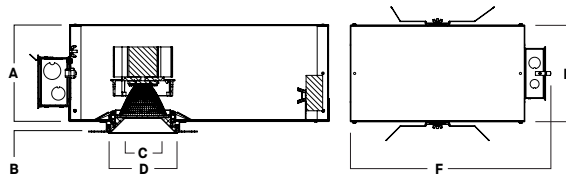
| A | B | C | D | E | F |
|----------|---------|----------|----------|----------|----------|
| 4.8 | .625 | 2.4 | 4.4 | 13.1 | 9.5 |
| 121.9 mm | 15.2 mm | 60.96 mm | 111.8 mm | 332.7 mm | 241.3 mm |

Fixture Weight: 7 lbs

Ceiling Cutout: 5" Sq

SS4NMI - IC NEW CONSTRUCTION / 20L MAX

IC rated frame-in kit for new construction with direct insulation contact and CCEA (Chicago Plenum) compatibility.



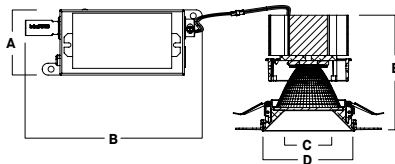
| A | B | C | D | E | F |
|----------|---------|----------|----------|----------|----------------------------|
| 6.4 | .625 | 2.4 | 4.4 | 9.5 | 10L-13L: 13.2 20L: 19.2 |
| 162.6 mm | 15.9 mm | 60.96 mm | 111.8 mm | 241.3 mm | |

Fixture Weight: 9 lbs

Ceiling Cutout: 5" Sq

SS4NMR - REMODEL CONSTRUCTION / 40L MAX

Non-IC rated frame-in kit for existing construction. Non-IC designation requires insulation must be minimum of 3" from housing.



| A | B | C | D | E |
|---------|----------|----------|----------|----------|
| 2.8 | 7.5 | 2.4 | 4.4 | 5.7 |
| 71.1 mm | 190.5 mm | 60.96 mm | 111.8 mm | 144.8 mm |

Fixture Weight: 5 lbs

Ceiling Cutout: 5" Sq

FEATURES

FRAME-IN KIT

Precision Die-formed 20 gauge galvanized steel housing and integral junction box with (3) 5/8", (3) 7/8" and (2) 1 1/8" knockouts. Junction box capacity: 8 12AWG rated for 90 °C. Tool-less driver and junction box access for ease of maintenance. Posi-loc trim retention springs for 5/8"-1" ceiling thickness. Use PR2 for up to 2" thick ceiling. For thicker ceilings consult factory.

MOUNTING

A variety of mounting bars are available (excluding remodel). Ceiling materials must be rigid to support luminaire frame.

DRIVER

Several constant current dimming drivers are available. Power factor >.9 typical, 50/60Hz, 350-1050mA.

TRIM

Flangeless, one-piece, die-cast aluminum finished in a variety of powdercoat options.

REMODEL

Features tethered power supply and junction box with sheathed wire.

LUMEN OUTPUT

XN narrow optic restricted to 1300 lumens max. All other optics and kelvins maintain 1000-4000 lumens range.

LED

Zhaga compatible high performance Xicato module. Proprietary phosphor technology provides consistent and stable color with CCT control of +/- 100K over life of light engine.

EMERGENCY

Integral or remote 7W emergency battery options are available. Operates for 90 minutes and produces nominal 450 lumens.

DMX

See [DMX Connections and Settings Guide](#) for default configurations. Contact quotes@speclight.com or your local representative for custom solutions.

BLUETOOTH

Integral Bluetooth LE option is available for dimming to .1% grouping, remote access, electrical feedback and beacon technology.

FUSING

Integral optional fast blow fuse with fuse holder.

COLOR VARIATION

Standard CRI (83) within 2-step MacAdam Ellipse. High CRI (98) within 1x2-step MacAdam Ellipse.

LISTINGS

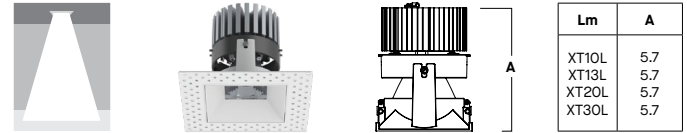
ETL Certified to meet US and Canadian Standards. Manufactured and tested to UL standard No. 1598/8750. BAA compliant. Wet location (WL), City of Chicago Environmental Air (CCEA), and Insulated Ceiling (IC) options available.

WARRANTY

Fixtures, LEDs and drivers carry 5 year Spectrum warranty, as well as individual OEM warranty. Warranty is 5 years from date of manufacturing. LED system rated for operation in an ambient temperatures up to 25 °C.

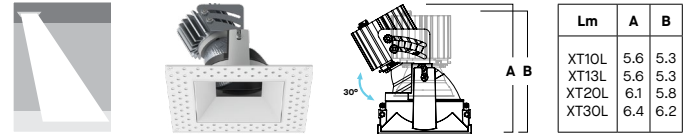
TRIM / MODULE DATA

SDD4N - DOWNLIGHT MODULE



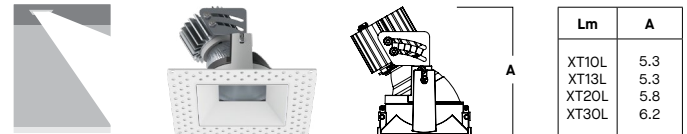
| Lm | A |
|-------|-----|
| XT10L | 5.7 |
| XT13L | 5.7 |
| XT20L | 5.7 |
| XT30L | 5.7 |

SDA4N - 30° ADJUSTABLE MODULE



| Lm | A | B |
|-------|-----|-----|
| XT10L | 5.6 | 5.3 |
| XT13L | 5.6 | 5.3 |
| XT20L | 6.1 | 5.8 |
| XT30L | 6.4 | 6.2 |

SDW4N - WALL WASH MODULE

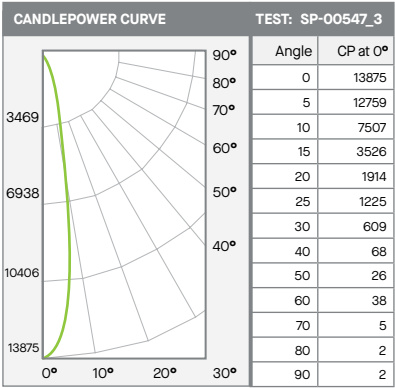


| Lm | A |
|-------|-----|
| XT10L | 5.3 |
| XT13L | 5.3 |
| XT20L | 5.8 |
| XT30L | 6.2 |



PHOTOMETRIC DATA - 4" SQUARE DEEP N-LINE

SS4NMx-XT40L-E1-SDD4x-xxK-ND-MW-NL



| Distance | Lumens | % |
|--------------|--------|------|
| 0-10 | 947 | 34% |
| 0-20 | 1894 | 68% |
| 0-30 | 2449 | 88% |
| 0-40 | 2682 | 96% |
| 0-60 | 2756 | 99% |
| 0-80 | 2782 | 100% |
| 0-90 | 2783 | 100% |
| Total Lumens | 2783 | 100% |

40L NARROW - 83 CRI

| Mounting Height* | FC at Center | Diameter of Beam** | FC at Beam** |
|------------------|--------------|--------------------|--------------|
| 5.5' | 459 | 1.6' | 224 |
| 6.5' | 328 | 1.9' | 161 |
| 7.5' | 247 | 2.2' | 121 |
| 8.5' | 192 | 2.5' | 94 |
| 10' | 139 | 3.0' | 68 |
| 12' | 96 | 3.5' | 47 |
| 14' | 71 | 4.1' | 35 |
| 16' | 54 | 4.7' | 27 |

| Ceiling Height | Fixture Spacing | RCR 8 | | RCR 10 | |
|----------------|-----------------|-------|-----------|--------|-----------|
| | | FC* | W/Sq. Ft. | FC* | W/Sq. Ft. |
| 8' | 2.5' ** | 92 | 1.59 | 67 | 1.25 |
| 12' | 4' *** | 61 | 1.06 | 60 | 1.11 |
| 16' | 5' ** | 52 | 0.9 | 51 | 0.93 |

Delivered Illuminance Rating: (DIR) 57 FC per W/Sq. Ft. 54 FC per W/Sq. Ft.

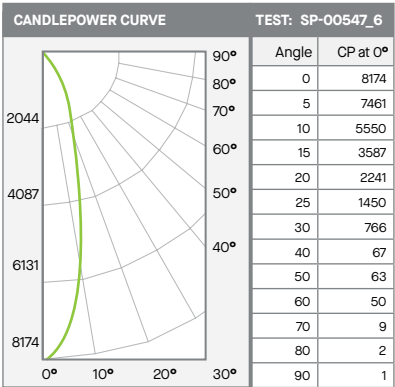
Square Rooms used for Multiple Units:
 - RCR 8: Length & Width = Ceiling Ht. x 1.25
 - RCR 10: Length & Width = Ceiling Ht. x 1.0
 * Average Footcandles at floor
 ** Exceeds spacing criteria by 4%
 *** Exceeds spacing criteria by 11%

Delivered Lumens: 2783 CP @ 0° (Nadir): 13875
 Luminaire Watts: 39.9 CRI: 83
 LER: 70

Beam Angle: 16.8°
 Spacing Ratio: 0.38

FC Multipliers: 10L x 0.322, 13L x 0.433, 20L x 0.667
 W/Sq. Ft. Multipliers: 10L x 0.320, 13L x 0.433, 20L x 0.685

SS4NMx-XT40L-E1-SDD4x-xxK-MD-MW-NL



| Distance | Lumens | % |
|--------------|--------|------|
| 0-10 | 654 | 23% |
| 0-20 | 1678 | 59% |
| 0-30 | 2382 | 84% |
| 0-40 | 2675 | 94% |
| 0-60 | 2797 | 99% |
| 0-80 | 2831 | 100% |
| 0-90 | 2833 | 100% |
| Total Lumens | 2833 | 100% |

40L MEDIUM - 83 CRI

| Mounting Height* | FC at Center | Diameter of Beam** | FC at Beam** |
|------------------|--------------|--------------------|--------------|
| 5.5' | 94 | 2.7' | 44 |
| 6.5' | 67 | 3.1' | 32 |
| 7.5' | 50 | 3.6' | 24 |
| 8.5' | 39 | 4.1' | 19 |
| 10' | 28 | 4.8' | 13 |
| 12' | 20 | 5.8' | 9 |
| 14' | 14 | 6.8' | 7 |
| 16' | 11 | 7.7' | 5 |

| Ceiling Height | Fixture Spacing | RCR 4 | | RCR 6 | |
|----------------|-----------------|-------|-----------|-------|-----------|
| | | FC* | W/Sq. Ft. | FC* | W/Sq. Ft. |
| 8' | 4' ** | 106 | 1.59 | 82 | 1.36 |
| 12' | 6' ** | 59 | 0.89 | 54 | 0.9 |
| 16' | 8' ** | 42 | 0.62 | 31 | 0.51 |

Delivered Illuminance Rating: (DIR) 67 FC per W/Sq. Ft. 60 FC per W/Sq. Ft.

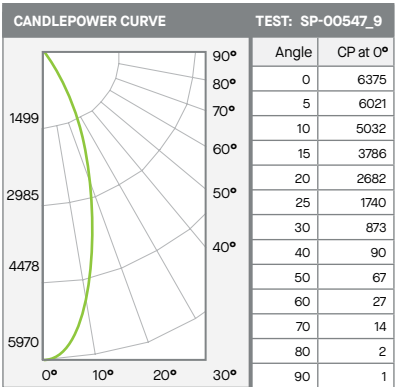
Square Rooms used for Multiple Units:
 - RCR 4: Length & Width = Ceiling Ht. x 2.5
 - RCR 6: Length & Width = Ceiling Ht. x 1.66
 * Average Footcandles at floor
 ** Exceeds spacing criteria by 6%

Delivered Lumens: 2833 CP @ 0° (Nadir): 8174
 Luminaire Watts: 39.9 CRI: 83
 LER: 71

Beam Angle: 27.2°
 Spacing Ratio: 0.46

FC Multipliers: 10L x 0.322, 13L x 0.433, 20L x 0.667
 W/Sq. Ft. Multipliers: 10L x 0.320, 13L x 0.433, 20L x 0.685

SS4NMx-XT40L-E1-SDD4x-xxK-WD-MW-NL



| Distance | Lumens | % |
|--------------|--------|------|
| 0-10 | 547 | 19% |
| 0-20 | 1632 | 55% |
| 0-30 | 2479 | 84% |
| 0-40 | 2802 | 95% |
| 0-60 | 2920 | 99% |
| 0-80 | 2942 | 100% |
| 0-90 | 2943 | 100% |
| Total Lumens | 2943 | 100% |

40L WIDE - 83 CRI

| Mounting Height* | FC at Center | Diameter of Beam** | FC at Beam** |
|------------------|--------------|--------------------|--------------|
| 5.5' | 211 | 3.5' | 96 |
| 6.5' | 151 | 4.1' | 68 |
| 7.5' | 113 | 4.8' | 51 |
| 8.5' | 88 | 5.4' | 40 |
| 10' | 64 | 6.4' | 29 |
| 12' | 44 | 7.7' | 20 |
| 14' | 33 | 8.9' | 15 |
| 16' | 25 | 10.2' | 11 |

| Ceiling Height | Fixture Spacing | RCR 2 | | RCR 4 | |
|----------------|-----------------|-------|-----------|-------|-----------|
| | | FC* | W/Sq. Ft. | FC* | W/Sq. Ft. |
| 8' | 5' ** | 94 | 1.22 | 82 | 1.2 |
| 12' | 7' *** | 55 | 0.71 | 49 | 0.71 |
| 16' | 9' **** | 31 | 0.4 | 27 | 0.4 |

Delivered Illuminance Rating: (DIR) 77 FC per W/Sq. Ft. 68 FC per W/Sq. Ft.

Square Rooms used for Multiple Units:
 - RCR 2: Length & Width = Ceiling Ht. x 5.0
 - RCR 4: Length & Width = Ceiling Ht. x 2.5
 * Average Footcandles at floor
 ** Exceeds spacing criteria by approximately 10%
 *** Exceeds spacing criteria by approximately 2%

Delivered Lumens: 2943 CP @ 0° (Nadir): 6375
 Luminaire Watts: 39.9 CRI: 83
 LER: 74

Beam Angle: 35.4°
 Spacing Ratio: 0.58

FC Multipliers: 10L x 0.322, 13L x 0.433, 20L x 0.667
 W/Sq. Ft. Multipliers: 10L x 0.320, 13L x 0.433, 20L x 0.685

