



# 3" SQUARE DOWNLIGHT N-LINE 3000 LUMENS MAX

## UNIVERSAL HOUSINGS WITH INTERCHANGEABLE TRIMS

Spectrum's A Spec 3" recessed square downlight series features a shallow plenum housing and variety of trims for accent and general illumination.

LUMENS AND WATTAGE CHART					
PART NUMBER	LUMENS	SOURCE LUMENS <sup>1</sup>	DELIVERED LUMENS <sup>2</sup>	SYSTEM WATTS	LPW
SD3N	XT10L	1000	785	11.1	71
SD3N	XT13L	1300	1058	15	71
SD3N	XT20L	2000	1627	23.7	69
SD3N	XT30L	3000	2441	34.6	71

PROJECT: \_\_\_\_\_  
 QUANTITY: \_\_\_\_\_ TYPE: \_\_\_\_\_

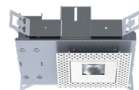


Lensed



### AVAILABLE HOUSING TYPES

**SS3NMO** - New Construction / 30L Max



**SS3NMI** - IC New Construction / 20L Max



**SS3NMR** - Remodel Construction / 30L Max



Shown with N-Line Plaster Fitter

### FIXTURE HOUSING SPECIFICATION

SERIES		LUMENS <sup>1</sup>		DRIVER / DIMMING / VOLTAGE		OPTIONS	
<b>SS3NMO</b>	New Construction	<b>XT10L</b>	1000 Lm	<b>E_</b>	Electronic Driver	<b>1</b>	120V
<b>SS3NMI</b>	IC New Construction	<b>XT13L</b>	1300 Lm	<b>DS10_</b>	10%, 0-10V	<b>2</b>	277V
<b>SS3NMR</b>	Remodel Construction	<b>XT20L</b>	2000 Lm	<b>DO10_</b>	1%, 0-10V		
		<b>XT30L</b>	3000 Lm	<b>DS2W1</b>	ELV/MLV, 120V		
		XN BEAM		<b>DLTE1</b>	1% Lutron® 2-Wire Forward Phase, 120V		
		<b>XN10L</b>	1000 Lm	<b>DL3E_</b>	1%, Lutron® EcoSystem® Fade		
		<b>XN13L</b>	1300 Lm	<b>EL10_</b>	1%, eldoLED		
				<b>EDO1_</b>	0.1%, eldoLED		
				<b>BLU</b>	Bluetooth LE		
						<b>H12</b>	12" - 24" Expandable Bars
						<b>HO6</b>	6" - 12" Expandable Bars
						<b>BH27</b>	27" Solid Bars
						<b>CB24</b>	24" C-Channel Bars
						<b>CH24</b>	24" Chicago Bars
						<b>FS</b>	Fusing
						<b>EM</b>	Integral Emergency Battery
						<b>EMRM</b>	Remote Emergency Battery Pack
						<b>EB</b>	Black Housing
						<b>PR2</b>	2" Thick Ceiling Adaptor

- Die-cast aluminum trim with a wide variety of options.
- Shallow plenum housing.
- 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.
- See SS3D for 1" deep regress trim and SS3S for super shallow plenum.
- 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	
<b>SD3N</b>	Downlight	83 CRI		<b>XN</b>	13°	<b>MW</b>	Matte White	<b>NL</b>	No Lens
<b>SI3N</b>	15° Adjustable	<b>27K</b>	2700K	<b>ND</b>	26°	<b>MB</b>	Matte Black	<b>SO</b>	Solite™ Micro Prism Lens
<b>SW3N</b>	Wall Wash	<b>30K</b>	3000K	<b>MD</b>	40°	<b>PT</b>	Platinum Silver	<b>LW</b>	Wall Wash Spread Lens
		<b>35K</b>	3500K	<b>WD</b>	47°	<b>BZ</b>	Bronze	<b>GL</b>	Clear Glass Lens
		<b>40K</b>	4000K	<b>XW</b>	62°	<b>CH</b>	Charcoal	<b>FG</b>	Frosted Glass Lens
		98 CRI ARTIST <sup>3</sup>				<b>OB</b>	Oil Rubbed Bronze	<b>BB</b>	Black Baffle
		<b>27HK</b>	2700K			<b>AS</b>	Sapphire	<b>PR2</b>	2" Thick Ceiling Adaptor
		<b>30HK</b>	3000K			<b>AM</b>	Malachite	<b>WL</b>	Wet Location
		<b>35HK</b>	3500K			<b>SN</b>	Sun Gold		
		<b>40HK</b>	4000K			<b>CO</b>	Copper Metallic		
						<b>GH</b>	Graphite		
						<b>CC</b>	Custom Color		

EXAMPLE: SS3NMOXT10LDS2W1/H12/SD3N27KMDMWSO

#### NOTES:

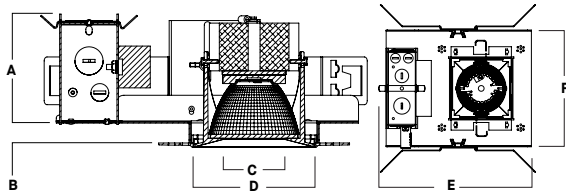
1 Nominal Source Lumens at Any CCT 2 Nominal Delivered Lumens 83 CRI at Any CCT with WD-MW-GL Trim 3 20L Max 4 For 20L HK and 30L Options Install Fixtures in Accordance with the Following Marked Spacing: (a) Center To Center of Adjacent Luminaires: 600mm (24in); (b) Top of Luminaire to overhead Building Member: 39mm (1.5in); (c) Luminaire Center to side Building Member: 300mm (12in) 5 Not Available with HK 6 Not Available in IC 7 Contact Factory 8 XW Optic Only / LW Lens Only 9 9mm, 13L Max, All XN Draw More Watts Than Other Optics; See Photometry 10 Standard Finish 11 Contact Factory for Special Finishes 12 Standard Lens for Wall Wash



## HOUSING DIMENSIONS

### SS3NMO - NEW CONSTRUCTION / 30L MAX

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



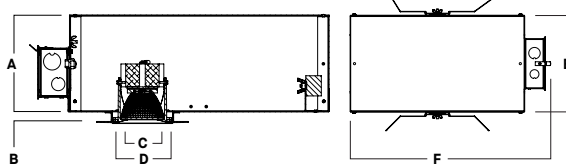
LED	A	B	C	D	E	F
XT10L	3.43	.625	1.95	3.89	9.6	7.6
XT13L	3.67	.625	1.95	3.89	9.6	7.6
XT20L	4.17	.625	1.95	3.89	9.6	7.6
XT30L	4.17	.625	1.95	3.89	9.6	7.6

Fixture Weight: 4.0 lbs

Ceiling Cutout: 4.12 Sq

### SS3NMI - IC NEW CONSTRUCTION / 20L MAX

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



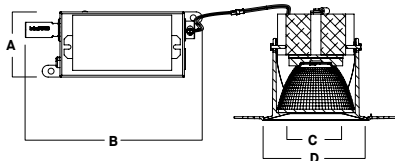
A	B	C	D	E	F
6.4	.625	1.95	3.89	9.5	10L-13L: 13.2
162.6 mm	15.9 mm	49.5 mm	98.8 mm	241.3 mm	20L: 19.2

Fixture Weight: 5.0 lbs

Ceiling Cutout: 4.12 Sq

### SS3NMR - REMODEL CONSTRUCTION / 30L 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
2.8	7.5	1.95	3.89
71.1 mm	190.5 mm	49.5 mm	98.8 mm

Fixture Weight: 2.0 lbs

Ceiling Cutout: 4" 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 1000-3000 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.

### 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

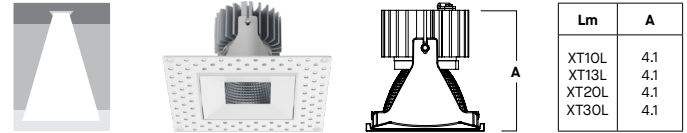
ETL Certified to meet US and Canadian Standards. Manufactured and tested to UL standard No. 1598/8750. BAA compliant. Wet location (WL), City of Chicago Environmental Air (CCEA), and Insulated Ceiling (IC) options available.

### 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.

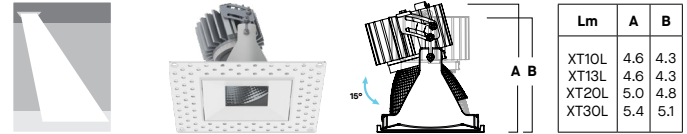
## TRIM / MODULE DATA

### SD3N - DOWNLIGHT MODULE



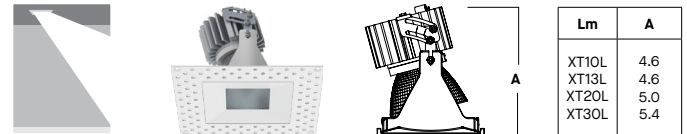
Lm	A
XT10L	4.1
XT13L	4.1
XT20L	4.1
XT30L	4.1

### SI3N - 15° ADJUSTABLE MODULE



Lm	A	B
XT10L	4.6	4.3
XT13L	4.6	4.3
XT20L	5.0	4.8
XT30L	5.4	5.1

### SW3N - WALL WASH MODULE



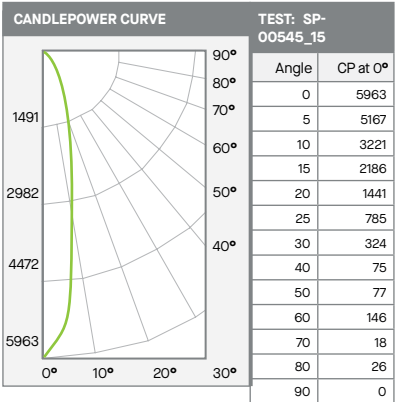
Lm	A
XT10L	4.6
XT13L	4.6
XT20L	5.0
XT30L	5.4



**Spectrum Lighting**

# PHOTOMETRIC DATA - 3" SQUARE N-LINE

## SS3NMx-XT30L-E1-SD3x-xxK-ND-MW-NL



Delivered Lumens: 2511  
Luminaire Watts: 34.6  
LER: 73

CP @ 0° (Nadir): 5963  
CRI: 83

ZONAL LUMENS		
0-10	496	20%
0-20	1283	51%
0-30	1874	75%
0-40	2175	87%
0-60	2359	94%
0-80	2499	100%
0-90	2511	100%
Total Lumens	2511	100%

Beam Angle: 22.3°  
Spacing Ratio: 0.38

## 30L NARROW - 83 CRI

SINGLE UNIT: PERFORMANCE			
INITIAL FOOTCANDLES AND BEAM ANGLE DIAMETERS			
Mounting Height*	FC at Center	Diameter of Beam**	FC at Beam**
5.5'	197	2.2'	95
6.5'	141	2.6'	68
7.5'	106	3.0'	51
8.5'	83	3.4'	40
10'	60	3.9'	29
12'	41	4.7'	20
14'	30	5.5'	15
16'	23	6.3'	11

\* From aperture to horizontal surface below.  
\*\* At IESNA defined Beam Angle, to 50% Max. CP.

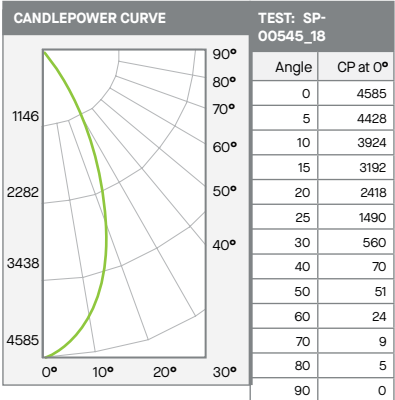
FC Multipliers: 10L x 0.322, 13L x 0.433, 20L x 0.667  
W/Sq. Ft. Multipliers: 10L x 0.320, 13L x 0.433, 20L x 0.685

MULTIPLE UNITS: PERFORMANCE					
80/50/20% REFLECTANCES					
INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
Ceiling Height	Fixture Spacing	RCR 8		RCR 10	
		FC*	W/Sq. Ft.	FC*	W/Sq. Ft.
8'	2.5'	73	1.38	52	1.08
12'	4'	49	0.92	46	0.96
16'	5'	41	0.78	39	0.81

Delivered Illuminance Rating: (DIR) 53 FC per W/Sq. Ft. 48 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

## SS3NMx-XT30L-E1-SD3x-MD-MW-NL



Delivered Lumens: 2361  
Luminaire Watts: 34.6  
LER: 68

CP @ 0° (Nadir): 4585  
CRI: 83

ZONAL LUMENS		
0-10	411	17%
0-20	1315	56%
0-30	2052	87%
0-40	2258	96%
0-60	2341	99%
0-80	2359	100%
0-90	2361	100%
Total Lumens	2361	100%

Beam Angle: 41.3°  
Spacing Ratio: 0.68

## 30L MEDIUM - 83 CRI

SINGLE UNIT: PERFORMANCE			
INITIAL FOOTCANDLES AND BEAM ANGLE DIAMETERS			
Mounting Height*	FC at Center	Diameter of Beam**	FC at Beam**
5.5'	152	4.1'	66
6.5'	109	4.9'	48
7.5'	82	5.7'	36
8.5'	63	6.4'	28
10'	46	7.5'	20
12'	32	9.0'	14
14'	23	10.6'	10
16'	18	12.1'	8

\* From aperture to horizontal surface below.  
\*\* At IESNA defined Beam Angle, to 50% Max. CP.

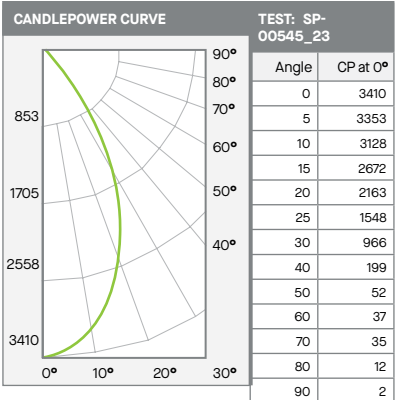
FC Multipliers: 10L x 0.322, 13L x 0.433, 20L x 0.667  
W/Sq. Ft. Multipliers: 10L x 0.320, 13L x 0.433, 20L x 0.685

MULTIPLE UNITS: PERFORMANCE					
80/50/20% REFLECTANCES					
INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
Ceiling Height	Fixture Spacing	RCR 4		RCR 6	
		FC*	W/Sq. Ft.	FC*	W/Sq. Ft.
8'	5'	50	0.78	45	0.79
12'	8'	39	0.62	45	0.78
16'	10'	22	0.35	25	0.44

Delivered Illuminance Rating: (DIR) 63 FC per W/Sq. Ft. 57 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

## SS3NMRx-XT30L-E1-SD3x-WD-MW-NL



Delivered Lumens: 2441  
Luminaire Watts: 34.6  
LER: 71

CP @ 0° (Nadir): 3410  
CRI: 83

ZONAL LUMENS		
0-10	312	13%
0-20	1065	44%
0-30	1818	75%
0-40	2232	91%
0-60	2374	97%
0-80	2435	100%
0-90	2441	100%
Total Lumens	2441	100%

Beam Angle: 47°  
Spacing Ratio: 0.76

## 30L WIDE - 83 CRI

SINGLE UNIT: PERFORMANCE			
INITIAL FOOTCANDLES AND BEAM ANGLE DIAMETERS			
Mounting Height*	FC at Center	Diameter of Beam**	FC at Beam**
5.5'	113	4.8'	47
6.5'	81	5.7'	34
7.5'	61	6.5'	25
8.5'	47	7.4'	20
10'	34	8.7'	14
12'	24	10.4'	10
14'	17	12.2'	7
16'	13	13.9'	6

\* From aperture to horizontal surface below.  
\*\* At IESNA defined Beam Angle, to 50% Max. CP.

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

MULTIPLE UNITS: PERFORMANCE					
80/50/20% REFLECTANCES					
INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
		FC*	W/Sq. Ft.	FC*	W/Sq. Ft.
8'	6'	56	0.78	49	0.78
12'	9'	25	0.35	22	0.35
16'	12'	14	0.20	12	0.20

Delivered Illuminance Rating: (DIR) 71 FC per W/Sq. Ft. 62 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

