



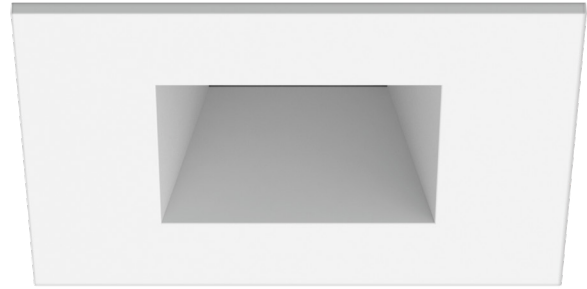
## 2" SQUARE DEEP DOWNLIGHT 2000 LUMENS MAX

### UNIVERSAL HOUSINGS WITH INTERCHANGEABLE TRIMS

Spectrum's A Spec 2" 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 <sup>1</sup>	DELIVERED LUMENS <sup>2</sup>	SYSTEM WATTS	LPW
SDD2F	XT10L	1000	501	11.1	45
SDD2F	XT13L	1300	676	15.0	45
SDD2F	XT20L	2000	1039	23.7	44

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

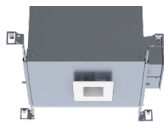


### AVAILABLE HOUSING TYPES

**SR2DMO** - New Construction / 20L MAX



**SR2DMI** - IC New Construction / 13L MAX



**SR2DMR** - Remodel Construction / 20L MAX



### FIXTURE HOUSING SPECIFICATION

SERIES		LUMENS <sup>1</sup>		DRIVER / DIMMING / VOLTAGE			OPTIONS	
<b>SR2DMO</b>	New Construction	<b>XT10L</b>	1000 Lm	<b>E</b> Electronic Driver <b>DS10</b> 10%, 0-10V <b>DS2W1</b> ELV/MLV, 120V <b>BLU</b> Bluetooth LE	<b>1</b> 120V <b>2</b> 277V	<b>H12<sup>2</sup></b> 12" - 24" Expandable Bars <b>EB</b> Black Housing <b>EMRM</b> Remote Emergency Battery Pack		
<b>SR2DMI<sup>3</sup></b>	IC New Construction	<b>XT13L</b>	1300 Lm					
<b>SR2DMR</b>	Remodel Construction	<b>XT20L</b>	2000 Lm					
		XN BEAM						
		<b>XN10L</b>	1000 Lm					
		<b>XN13L<sup>4</sup></b>	1300 Lm					

- Die-cast aluminum trim with a wide variety of options.
- Deep regressed trim.
- Universal housing accepts all trim types.
- Performance Xicato LED module for superior reliability and color consistency.
- 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		TRIM FINISH <sup>7</sup>		OPTIONS	
<b>SDD2F</b>	Downlight	83 CRI		<b>XN<sup>6</sup></b> 14° <b>MD</b> 35° <b>WD</b> 51°	<b>MW<sup>8</sup></b> Matte White <b>MB</b> Matte Black <b>PT</b> Platinum Silver <b>BZ</b> Bronze <b>CH</b> Charcoal <b>OB</b> Oil Rubbed Bronze <b>AS</b> Sapphire <b>AM</b> Malachite <b>SN</b> Sun Gold <b>CO</b> Copper Metallic <b>GH</b> Graphite <b>CC<sup>2</sup></b> Custom Color	<b>NL</b> No Lens <b>GL<sup>10</sup></b> Clear Glass Lens <b>SO</b> Micro Prism Solite™ Lens <b>FG</b> Frosted Glass Lens <b>WF<sup>11</sup></b> White Flange			
		<b>27K</b>	2700K						
		<b>30K</b>	3000K						
		<b>35K</b>	3500K						
		<b>40K</b>	4000K						
		98 CRI ARTIST							
<b>27HK</b>	2700K								
<b>30HK</b>	3000K								
<b>35HK</b>	3500K								
<b>40HK</b>	4000K								

EXAMPLE: SR2DMOXT10LDS2W1/H12/SDD2F27KMDCHNL

### NOTES:

1 Nominal Source Lumens at Any CCT 2 Nominal Delivered Lumens 83 CRI at Any CCT with MD-MW-GL Trim 3 IC New Construction not Available in XN Beam or XT20L  
4 Not Available with HK 5 Standard Bar Hanger 6 9mm, 13L Max, All XN Draw More Watts Than Other Optics; See Photometry 7 Inside Trim And Flange Will Match Color Specified 8 Standard Finish 9 Contact Factory for Special Finishes 10 Standard Lens 11 Otherwise Flange Is Same Color As Interior Of Trim

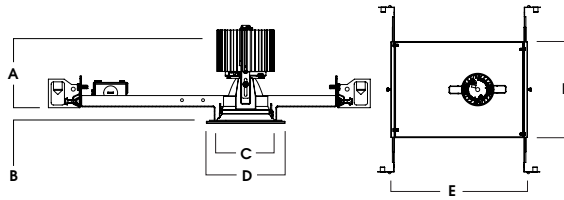
Dimensions and values shown are nominal. Spectrum Lighting continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.



## HOUSING DIMENSIONS

### SR2DMO - NEW CONSTRUCTION / 20L MAX

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



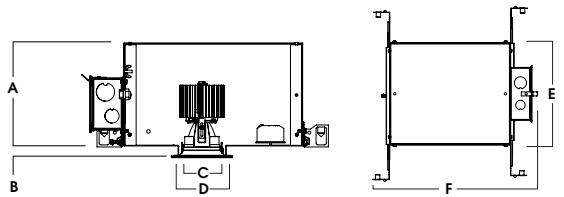
A	B	C	D	E	F
3.9	.625	2.0	3.8	12.9	9.1
99.1 mm	15.2 mm	50.8 mm	96.5 mm	327.7 mm	231.1 mm

Fixture Weight: 4.0 lbs

Ceiling Cutout: Ø 3"

### SR2DMI - IC NEW CONSTRUCTION / 13L MAX

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



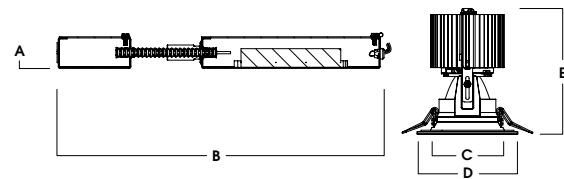
A	B	C	D	E	F
6.4	.625	2.0	3.8	9.8	15.4
162.6 mm	15.2 mm	50.8 mm	96.5 mm	248.9 mm	391.2 mm

Fixture Weight: 5.0 lbs

Ceiling Cutout: Ø 3"

### SR2DMR - REMODEL CONSTRUCTION / 20L 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
1.5	13.9	2.0	3.8	4.5
38.1 mm	353.1 mm	50.8 mm	96.5 mm	114.3 mm

Fixture Weight: 2.0 lbs

Ceiling Cutout: Ø 3"

## FEATURES

### NEW CONSTRUCTION

Precision Die-formed 20 gauge galvanized steel housing and integral junction box with (1) 7/8" knockout for Non-IC (not designed for through branch circuit wiring) and (1) 5/8", (3) 7/8" and 2 (1") knockouts for IC. 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. For thicker ceilings consult factory.

### REMODEL CONSTRUCTION

Features tethered power supply and junction box with sheathed wire, (1) 7/8" knockout, and (1) 5/8" Knockout.

### 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

Self-flanged, one-piece, die-cast aluminum finished in a variety of powdercoat options. Inside trim and flange are finished in same color unless otherwise specified (WF= White Flange).

### LUMEN OUTPUT

Optics maintain 1000-2000 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

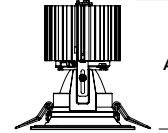
Remote 7W emergency battery options are available. Operates for 90 minutes and produces nominal 450 lumens.

### BLUETOOTH

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

## TRIM / MODULE DATA

### SDD2F - DOWNLIGHT MODULE



Lm	A
XT10L	3.5
XT13L	3.5
XT20L	4.5



**SPECTRUM**  
LIGHTING INC.

# PHOTOMETRIC DATA - 2" ROUND DEEP

SR2DMO-XT20L-E1-SDD2F-xxK-MD-MW-NL

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5	
	0.00°	0° - 10° 243 21%	5.50'	90 fc	3.5'	45 fc	8'	3'	134	2.79	84	1.93
	0.00° 2,732	0° - 20° 693 59%	6.50'	65 fc	4.1'	32 fc	12'	5''	46	0.95	41	0.95
	5.00° 2,648	0° - 30° 981 84%	7.50'	49 fc	4.8'	24 fc	16'	7''	19	0.40	17	0.40
	10.00° 2,311	0° - 40° 1,072 92%	8.50'	38 fc	5.4'	19 fc	Delivered Illuminance Rating: (DIR)					
	15.00° 1,705	0° - 60° 1,147 98%	10.00'	27 fc	6.4'	14 fc	2' Suspension Length					
	20.00° 1,095	0° - 80° 1,167 100%	12.00'	19 fc	7.6'	9 fc	Square rooms used for multiple units:					
	30.00° 227	0° - 90° 1,169 100%	14.00'	14 fc	8.9'	7 fc	- RCR 3: Length & Width = Ceiling Ht. - 4.5' x 3.33					
	40.00° 80	Total 1,170 100%	16.00'	11 fc	10.2'	5 fc	- RCR 5: Length & Width = Ceiling Ht. - 4.5' x 2.00					
	50.00° 52	CP at 0deg (Nadir): 2,732	Beam Angle: 34.7	Lamp Multiplier: 10L x 0.48, 13L x 0.65				* Average Footcandles at 2.5' Above Floor				
	60.00° 26	CRI: 83	Spacing Ratio: 0.58	CCT Multiplier: LEDXT lumen output is the same for all available CCT's				* Exceeds spacing criteria by 48%				
	70.00° 10							** Exceeds spacing criteria by 15%				
	80.00° 3							*** Exceeds spacing criteria by 5%				
	90.00° 1											
	Delivered Lumens: 1,170											
	Luminaire Watts: 23.7											
	LER: 49.37											

SR2DMO-XT20L-E1-SDD2F-xxK-MD-MW-GL

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5	
	0.00°	0° - 10° 221 21%	5.50'	82 fc	3.4'	41 fc	8'	3'	119	2.79	167	4.35
	0.00° 2,485	0° - 20° 627 60%	6.50'	59 fc	4.0'	29 fc	12'	5''	40	0.95	36	0.95
	5.00° 2,404	0° - 30° 871 84%	7.50'	44 fc	4.6'	22 fc	16'	7''	25	0.58	15	0.40
	10.00° 2,086	0° - 40° 948 91%	8.50'	34 fc	5.3'	17 fc	Delivered Illuminance Rating: (DIR)					
	15.00° 1,520	0° - 60° 1,017 98%	10.00'	25 fc	6.2'	12 fc	2' Suspension Length					
	20.00° 916	0° - 80° 1,034 100%	12.00'	17 fc	7.4'	9 fc	Square rooms used for multiple units:					
	30.00° 164	0° - 90° 1,036 100%	14.00'	13 fc	8.7'	6 fc	- RCR 3: Length & Width = Ceiling Ht. - 4.5' x 3.33					
	40.00° 72	Total 1,036 100%	16.00'	10 fc	9.9'	5 fc	- RCR 5: Length & Width = Ceiling Ht. - 4.5' x 2.00					
	50.00° 47	CP at 0deg (Nadir): 2,485	Beam Angle: 34.36	Lamp Multiplier: 10L x 0.48, 13L x 0.65				* Average Footcandles at 2.5' Above Floor				
	60.00° 18	CRI: 83	Spacing Ratio: 0.56	CCT Multiplier: LEDXT lumen output is the same for all available CCT's				* Exceeds spacing criteria by 53%				
	70.00° 5							** Exceeds spacing criteria by 19%				
	80.00° 3							*** Exceeds spacing criteria by 9%				
	90.00° 0											
	Delivered Lumens: 1,036											
	Luminaire Watts: 23.7											
	LER: 43.71											

SR2DMO-XT20L-E1-SDD2F-xxK-MD-MW-SO

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT					
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5	
	0.00°	0° - 10° 209 20%	5.50'	80 fc	3.5'	40 fc	8'	3'	121	2.79	169	4.35
	0.00° 2,411	0° - 20° 606 57%	6.50'	57 fc	4.2'	29 fc	12'	5''	41	0.95	37	0.95
	5.00° 2,290	0° - 30° 863 81%	7.50'	43 fc	4.8'	21 fc	16'	7''	25	0.58	16	0.40
	10.00° 1,951	0° - 40° 954 90%	8.50'	33 fc	5.5'	17 fc	Delivered Illuminance Rating: (DIR)					
	15.00° 1,472	0° - 60° 1,039 98%	10.00'	24 fc	6.4'	12 fc	2' Suspension Length					
	20.00° 970	0° - 80° 1,061 100%	12.00'	17 fc	7.7'	8 fc	Square rooms used for multiple units:					
	30.00° 224	0° - 90° 1,063 100%	14.00'	12 fc	9.0'	6 fc	- RCR 3: Length & Width = Ceiling Ht. - 4.5' x 3.33					
	40.00° 82	Total 1,064 100%	16.00'	9 fc	10.3'	5 fc	- RCR 5: Length & Width = Ceiling Ht. - 4.5' x 2.00					
	50.00° 57	CP at 0deg (Nadir): 2,411	Beam Angle: 34.98	Lamp Multiplier: 10L x 0.48, 13L x 0.65				* Average Footcandles at 2.5' Above Floor				
	60.00° 27	CRI: 83	Spacing Ratio: 0.57	CCT Multiplier: LEDXT lumen output is the same for all available CCT's				* Exceeds spacing criteria by 50%				
	70.00° 8							** Exceeds spacing criteria by 17%				
	80.00° 4							*** Exceeds spacing criteria by 7%				
	90.00° 1											
	Delivered Lumens: 1,064											
	Luminaire Watts: 23.7											
	LER: 44.89											



# PHOTOMETRIC DATA - 2" ROUND DEEP

SR2DMO-XT20L-E1-SDD2F-xxK-WD-MW-NL

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT								
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5				
	0.00°		0° - 10°	190	14%	5.50'	71 fc	4.5'	35 fc	8'	4'	85	1.57	92	1.93
	0.00°	2,141	0° - 20°	624	47%	6.50'	51 fc	5.3'	25 fc	12'	6'	33	0.61	45	0.95
	5.00°	2,073	0° - 30°	1,031	77%	7.50'	38 fc	6.1'	19 fc	16'	8'	22	0.40	19	0.40
	10.00°	1,877	0° - 40°	1,214	91%	8.50'	30 fc	6.9'	15 fc	Delivered Illuminance Rating: (DIR)		54 FC per W/Sq. Ft.		48 FC per W/Sq. Ft.	
	15.00°	1,628	0° - 60°	1,309	98%	10.00'	21 fc	8.1'	11 fc	2' Suspension Length Square rooms used for multiple units: - RCR 3: Length & Width = Ceiling Ht. - 4.5' x 3.33 - RCR 5: Length & Width = Ceiling Ht. - 4.5' x 2.00 + Average Footcandles at 2.5' Above Floor * Exceeds spacing criteria by 59% ** Exceeds spacing criteria by 11% *** Exceeds spacing criteria by -3%					
	20.00°	1,289	0° - 80°	1,337	100%	12.00'	15 fc	9.8'	7 fc						
	30.00°	496	0° - 90°	1,340	100%	14.00'	11 fc	11.4'	5 fc						
	40.00°	98	Total	1,340	100%	16.00'	8 fc	13.0'	4 fc						
	50.00°	60													
	60.00°	31													
	70.00°	14													
	80.00°	4													
	90.00°	1													
	Delivered Lumens: <b>1,340</b> Luminaire Watts: <b>23.7</b> LER: <b>56.54</b>		CP at 0deg (Nadir): <b>2,141</b> CRI: <b>83</b>		Beam Angle: <b>43.96</b> Spacing Ratio: <b>0.72</b>		Lamp Multiplier: <b>10L x 0.48, 13L x 0.65</b> CCT Multiplier: <b>LEDXT lumen output is the same for all available CCTs</b>								

SR2DMO-XT20L-E1-SDD2F-xxK-WD-MW-GL

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT								
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5				
	0.00°		0° - 10°	171	15%	5.50'	64 fc	4.3'	32 fc	8'	4'	74	1.57	81	1.93
	0.00°	1,950	0° - 20°	556	47%	6.50'	46 fc	5.1'	23 fc	12'	6'	29	0.61	40	0.95
	5.00°	1,885	0° - 30°	904	77%	7.50'	35 fc	5.9'	17 fc	16'	8'	19	0.40	17	0.40
	10.00°	1,700	0° - 40°	1,056	90%	8.50'	27 fc	6.7'	13 fc	Delivered Illuminance Rating: (DIR)		47 FC per W/Sq. Ft.		42 FC per W/Sq. Ft.	
	15.00°	1,467	0° - 60°	1,148	98%	10.00'	19 fc	7.9'	10 fc	2' Suspension Length Square rooms used for multiple units: - RCR 3: Length & Width = Ceiling Ht. - 4.5' x 3.33 - RCR 5: Length & Width = Ceiling Ht. - 4.5' x 2.00 + Average Footcandles at 2.5' Above Floor * Exceeds spacing criteria by 61% ** Exceeds spacing criteria by 13% *** Exceeds spacing criteria by -2%					
	20.00°	1,147	0° - 80°	1,172	100%	12.00'	14 fc	9.5'	7 fc						
	30.00°	424	0° - 90°	1,174	100%	14.00'	10 fc	11.0'	5 fc						
	40.00°	90	Total	1,174	100%	16.00'	8 fc	12.6'	4 fc						
	50.00°	57													
	60.00°	30													
	70.00°	12													
	80.00°	4													
	90.00°	1													
	Delivered Lumens: <b>1,174</b> Luminaire Watts: <b>23.7</b> LER: <b>49.54</b>		CP at 0deg (Nadir): <b>1,950</b> CRI: <b>83</b>		Beam Angle: <b>42.69</b> Spacing Ratio: <b>0.71</b>		Lamp Multiplier: <b>10L x 0.48, 13L x 0.65</b> CCT Multiplier: <b>LEDXT lumen output is the same for all available CCTs</b>								

SR2DMO-XT20L-E1-SDD2F-xxK-WD-MW-SO

CANDLEPOWER CURVE	INTENSITY	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE INITIAL FOOTCANDLES BASED ON IES BEAM ANGLE				MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT								
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5				
	0.00°		0° - 10°	168	14%	5.50'	62 fc	4.5'	31 fc	8'	4'	76	1.57	83	1.93
	0.00°	1,870	0° - 20°	552	45%	6.50'	44 fc	5.3'	22 fc	12'	6'	30	0.61	41	0.95
	5.00°	1,820	0° - 30°	907	75%	7.50'	33 fc	6.1'	17 fc	16'	8'	20	0.40	17	0.40
	10.00°	1,659	0° - 40°	1,074	88%	8.50'	26 fc	6.9'	13 fc	Delivered Illuminance Rating: (DIR)		49 FC per W/Sq. Ft.		43 FC per W/Sq. Ft.	
	15.00°	1,426	0° - 60°	1,183	97%	10.00'	19 fc	8.1'	9 fc	2' Suspension Length Square rooms used for multiple units: - RCR 3: Length & Width = Ceiling Ht. - 4.5' x 3.33 - RCR 5: Length & Width = Ceiling Ht. - 4.5' x 2.00 + Average Footcandles at 2.5' Above Floor * Exceeds spacing criteria by 59% ** Exceeds spacing criteria by 11% *** Exceeds spacing criteria by -3%					
	20.00°	1,122	0° - 80°	1,212	100%	12.00'	13 fc	9.7'	6 fc						
	30.00°	447	0° - 90°	1,215	100%	14.00'	10 fc	11.4'	5 fc						
	40.00°	122	Total	1,215	100%	16.00'	7 fc	13.0'	4 fc						
	50.00°	65													
	60.00°	35													
	70.00°	12													
	80.00°	5													
	90.00°	1													
	Delivered Lumens: <b>1,215</b> Luminaire Watts: <b>23.7</b> LER: <b>51.27</b>		CP at 0deg (Nadir): <b>1,870</b> CRI: <b>83</b>		Beam Angle: <b>43.91</b> Spacing Ratio: <b>0.72</b>		Lamp Multiplier: <b>10L x 0.48, 13L x 0.65</b> CCT Multiplier: <b>LEDXT lumen output is the same for all available CCTs</b>								

