



COMMERCIAL DOWNLIGHT SERIES BY SPECTRUM

## 8" ROUND DOWNLIGHT

NON-IC CONSTRUCTION

Spectrum's Infinium 8" recessed round downlight series features a shallow plenum housing for general illumination.

LUMENS AND WATTAGE CHART			
PART NUMBER	DELIVERED LUMENS <sup>1</sup>	SYSTEM WATTS	LPW
SGE8LEDFX10L	760	6.6	115
SGE8LEDFX15L	1224	10.5	117
SGE8LEDFX20L	1646	14.4	114
SGE8LEDFX30L	2448	21.9	112
SGE8LEDFX40L	3292	30	110
SGE8LEDFX50L	4220	38.6	109

<sup>1</sup> Nominal Delivered Lumens at 35K with MW SO

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



MATTE WHITE  
MATCHING FLANGE



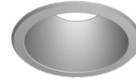
MATTE BLACK  
MATCHING FLANGE



SEMI-DIFFUSE  
MATCHING FLANGE



PLATINUM SILVER  
MATCHING FLANGE

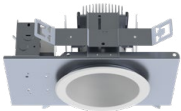


BRONZE  
MATCHING FLANGE



### AVAILABLE HOUSING TYPE

SGE8LEDFX - New Construction



### PRODUCT SELECTOR GUIDE

SERIES	LUMENS	CRI / CCT	DRIVER / VOLTAGE	EMERGENCY	BAR HANGERS	TRIM TYPE	FINISH	FLANGE FINISH	LENS	TRIM OPTIONS
SGE8LEDFX						AR8223FX				
EXAMPLE	15L	35K	DX		BH27	AR8223FX	MW	MF	SO	

### FIXTURE HOUSING SPECIFICATION

SERIES	LUMENS	CRI / CCT	DRIVER / VOLTAGE	EMERGENCY	BAR HANGERS
Downlight	10L 750 Lm	90 Minimum	DX 1%, 0-10V, 120V/277V	EM Integral Emergency Battery	BH27 27" Solid Bars
SGE8LEDFX	15L 1200 Lm	27HK 2700K	DS2W1 1%, ELV/MLV, 120V	EMRM Remote Emergency Battery Pack Installer Responsible For EM Access	Standard Bar Hangers
	20L 1650 Lm	30HK 3000K			H12 12" - 24" Expandable Bars
	30L 2450 Lm	35HK 3500K			CB24 24" C-Channel Bars
	40L 3300 Lm	40HK 4000K			
50L 4200 Lm	40HK 4000K				
Wall Wash	80 Minimum				
SGW8LEDFX	Nominal Delivered Lumens at 35K with MW SO	30K 3000K			
		35K 3500K			
		40K 4000K			
		50K 5000K			

- Up to 4200 delivered lumens.
- Smooth light distribution for general illumination.
- Shallow plenum construction.
- L70 at >60,000 Hours at 70% lumens maintenance.
- 5 year warranty on fixture and electronics.
- Sustainable fixture.
- Damp or wet location listed.
- Ease of maintenance.
- Posi-lock trim retention torsion springs.

### TRIM SPECIFICATION

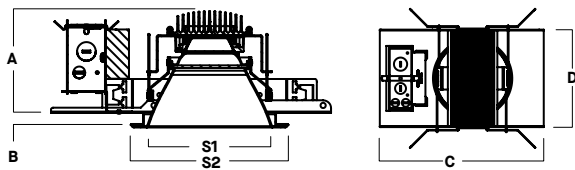
TRIM TYPE	FINISH	FLANGE FINISH	LENS	TRIM OPTIONS
Downlight	MW Matte White MB Matte Black SG Semi-Diffuse PT Platinum Silver CC* Custom Color *Consult Factory	MF Matching Flange	STANDARD LENS FOR DOWNLIGHT	W Wet Location Gasket is Supplied with "W" Option
AR8223FX		NON MATCHING	SO Micro Prism Solite™ Lens	
Wall Wash	See Page 6 for Full Range of Color Options (83-90178)	WF White Flange	STANDARD LENS FOR WALL WASH	GS Gasket
		BF Black Flange SF Platinum Flange CCF* Custom Color Flange *Consult Factory		
AR8923FX				



## HOUSING DIMENSIONS

### SGE8LEDFX - NEW CONSTRUCTION

Non-IC rated, thermally protected frame-in kit for new construction.



A	B	C	D	S1	S2
4.7	.625	14.0	9.4	7.5	9.1
119.4 mm	15.9 mm	355.6 mm	238.8 mm	190.5 mm	231.1 mm

Hole Cutout: Ø 8"

## TRIM DATA

### AR8223FX - DOWNLIGHT



### AR8923FX - WALL WASH



## FEATURES

### APPLICATIONS

FX series 8" diameter downlights, designed for general downlighting with smooth light distribution.

### FEATURES

Shallow plenum construction. Companion retrofit and remodel fixtures available. Auto dim thermal protector for long term reliability. Zhaga international standard LED module for ease of maintenance and future replacement. Tool-less LED module, driver, and J-Box access. Multi-Bar mounting brackets, fit a variety of mounting bars. Posi-lock trim retention torsion springs. Integral 5/8" (.625) collar, works in ceiling up to 1" Deep. Intended for Non-IC new construction.

### FINISH

Variety of powdercoat and anodized finishes available. Matte white flange is standard.

### ELECTRONICS

LED system features high efficacy Philips LEDs. Standard CRI is >80. Drivers are overload and short circuit protected as well as thermally regulated. Sound rating A.

### CONSTRUCTION

Housing/frame constructed of #20 ga. galvanized steel to resist corrosion. Self-flanged one piece trim spun from 0.063 3002 high purity aluminum and finished to specification. Passive machined aluminum heatsink.

### CODE COMPLIANCE

BAA Compliant. Non-IC New Construction only. ETL certified to meet US and Canadian standards. Suitable for dry or damp locations. Optional Wet location listed trim. LM79/LM80 data available. Manufactured and tested to UL standards No. 1598.

### RATED LIFE

Rated for 60,000 Hours at 70% lumen maintenance. (L70)



# PHOTOMETRIC DATA - 8" ROUND DOWNLIGHT

SGE8LEDFX 50L 35K XX AR8223FX MW WF SO

CANDLEPOWER CURVE TEST SP-01244	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT								
	0°	0° - 10° 261 6%	Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2	RCR 4		
	0°	0° - 20° 990 23%	8'	42 fc	13.3'	10 fc	10'	8'	FC *	W/Sq. Ft.	FC *	W/Sq. Ft.
	5°	0° - 30° 2065 49%	10'	27 fc	16.6'	6 fc	12'	10'	73	0.69	39	0.44
	15°	0° - 40° 3152 75%	12'	19 fc	20.0'	4 fc	16'	12'	45	0.43	24	0.27
	25°	0° - 60° 4055 96%	14'	14 fc	23.3'	3 fc	Delivered Illuminance Rating: (DIR)				106 FC per W/Sq. Ft.	89 FC per W/Sq. Ft.
	35°	0° - 80° 4195 99%	16'	11 fc	26.6'	2 fc	Recessed mounting Square rooms used for multiple units: RCR 2: Length & Width = Ceiling Ht. - 2.5' x 5.00 RCR 4: Length & Width = Ceiling Ht. - 2.5' x 2.50 * Average Footcandles at 2.5' Above Floor					
	45°	0° - 90° 4207 100%	20'	7 fc	33.3'	2 fc						
	55°	Total 4220 100%	24'	5 fc	40.0'	1 fc						
	90°		28'	3 fc	46.6'	1 fc						

Delivered Lumens: 4220  
Luminaire Watts: 38.68  
LER: 109.10

CP at 0° (Nadir): 2719  
CRI: 80+

Beam Angle: 80°  
Spacing Ratio: 1.15

Lumen Multiplier: 10L x 0.18, 15L x 0.29, 20L x 0.39, 30L x 0.58, 40L x 0.78  
CCT Multiplier: 27HK x 0.77, 30K x 0.96, 40K x 1.03, 50K x 1.04

SGE8LEDFX 50L 35K XX AR8223FX SG WF SO

CANDLEPOWER CURVE TEST SP-01244_1	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE DIRECT FOOTCANDLES BASED ON DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT								
	0°	0° - 10° 299 7%	Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2	RCR 4		
	0°	0° - 20° 1109 27%	8'	49 fc	11.9'	13 fc	12'	8'	FC *	W/Sq. Ft.	FC *	W/Sq. Ft.
	5°	0° - 30° 2241 55%	10'	31 fc	14.8'	8 fc	16'	10'	64	0.61	54	0.61
	15°	0° - 40° 3304 81%	12'	22 fc	17.8'	6 fc	16'	10'	43	0.41	27	0.30
	25°	0° - 60° 4014 99%	14'	16 fc	20.8'	4 fc	Delivered Illuminance Rating: (DIR)				104 FC per W/Sq. Ft.	89 FC per W/Sq. Ft.
	35°	0° - 80° 4045 100%	16'	12 fc	23.7'	3 fc	Recessed mounting Square rooms used for multiple units: RCR 2: Length & Width = Ceiling Ht. - 2.5' x 5.00 RCR 4: Length & Width = Ceiling Ht. - 2.5' x 2.50 * Average Footcandles at 2.5' Above Floor					
	45°	0° - 90° 4049 100%	20'	8 fc	29.7'	2 fc						
	55°	Total 4064 100%	24'	5 fc	35.6'	1 fc						
	90°		28'	4 fc	41.6'	1 fc						

Delivered Lumens: 4064  
Luminaire Watts: 38.47  
LER: 105.64

CP at 0° (Nadir): 3145  
CRI: 80+

Beam Angle: 73°  
Spacing Ratio: 1.05

Lumen Multiplier: 10L x 0.18, 15L x 0.29, 20L x 0.39, 30L x 0.58, 40L x 0.78  
CCT Multiplier: 27HK x 0.77, 30K x 0.96, 40K x 1.03, 50K x 1.04

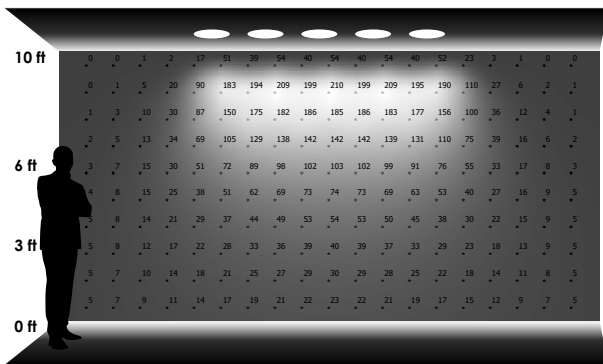


# PHOTOMETRIC DATA - 8" ROUND WALL WASH

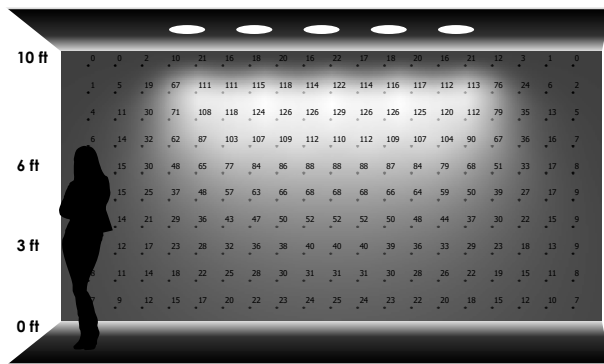
SGW8LEDFX 50L 35K XX AR8923FX MW WF SK

CANDLEPOWER CURVE TEST SP-01236	PERFORMANCE SUMMARY	REFERENCE DIAGRAM
	Delivered Lumens: <b>3478</b>	
	Luminaire Watts: <b>38.3</b>	
	LER: <b>90.81</b>	
	CP at 0deg (Nadir): <b>2524</b>	
	CRI: <b>80+</b>	
	Lumen Multiplier: 10L x 0.18, 15L x 0.29, 20L x 0.39, 30L x 0.58, 40L x 0.78	
	CCT Multiplier: 27HK x 0.77, 30K x 0.96, 40K x 1.03, 50K x 1.04	

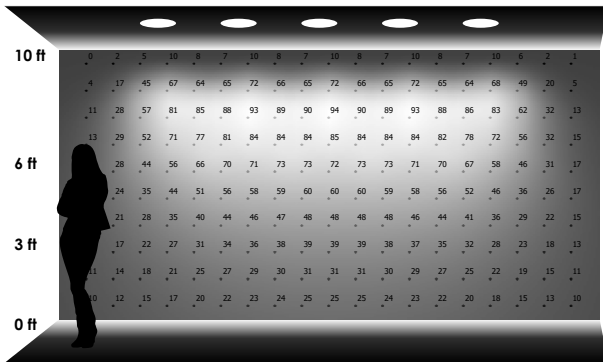
## PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



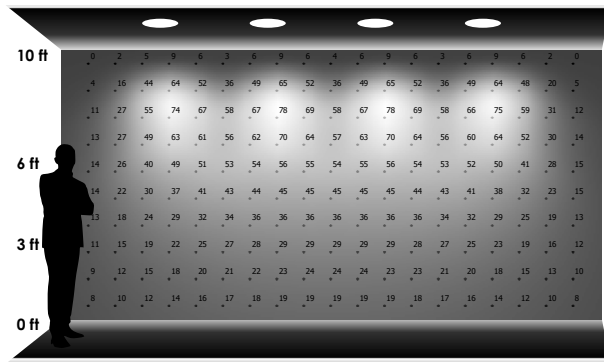
**5 LUMINAIRES**  
2'-0" away from wall  
2'-0" between luminaires



**5 LUMINAIRES**  
2'-6" away from wall  
2'-6" between luminaires



**5 LUMINAIRES**  
3'-0" away from wall  
3'-0" between luminaires



**4 LUMINAIRES**  
3'-0" away from wall  
4'-0" between luminaires

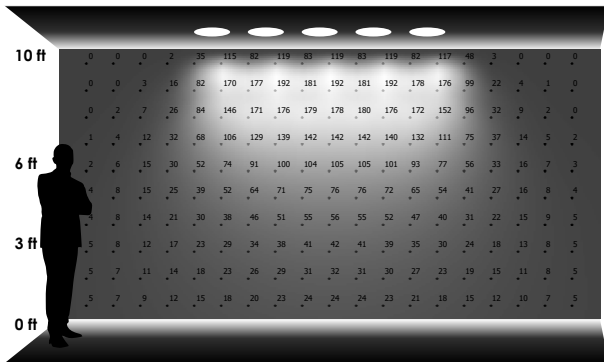


# PHOTOMETRIC DATA - 8" ROUND WALL WASH

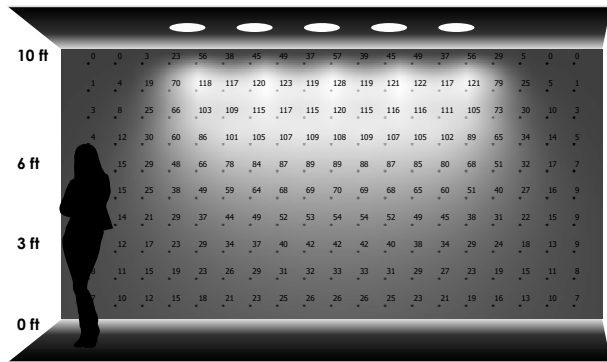
SGW8LEDX 50L 35K XX AR8923FX SG WF SK

CANDLEPOWER CURVE TEST SP-01236_1	PERFORMANCE SUMMARY	REFERENCE DIAGRAM
	Delivered Lumens: 3335	
	Luminaire Watts: 38.3	
	LER: 87.08	
	CP at 0deg (Nadir): 2685	
	CRI: 80+	
	Lumen Multiplier: 10L x 0.18, 15L x 0.29, 20L x 0.39, 30L x 0.58, 40L x 0.78	
	CCT Multiplier: 27HK x 0.77, 30K x 0.96, 40K x 1.03, 50K x 1.04	

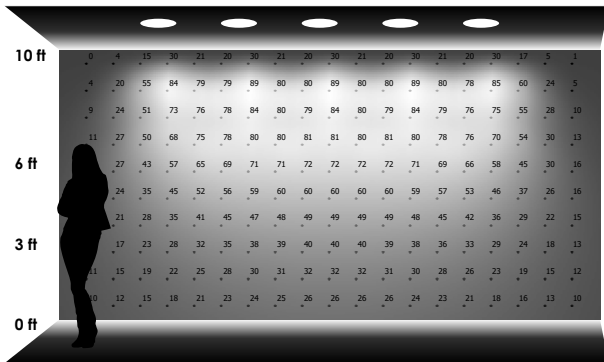
## PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



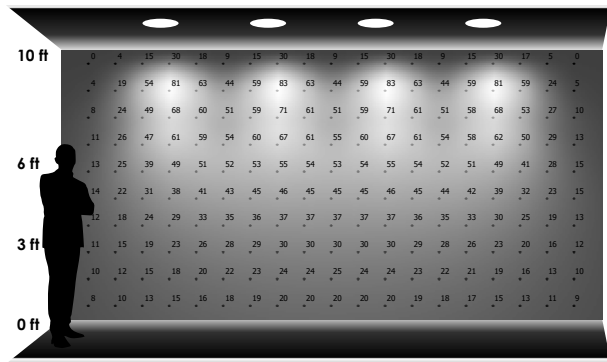
**5 LUMINAIRES**  
2'-0" away from wall  
2'-0" between luminaires



**5 LUMINAIRES**  
2'-6" away from wall  
2'-6" between luminaires



**5 LUMINAIRES**  
3'-0" away from wall  
3'-0" between luminaires



**4 LUMINAIRES**  
3'-0" away from wall  
4'-0" between luminaires



# SPUN TRIM AND FLANGE FINISH OPTIONS - RECESSED ROUND



SPECTRUM LIGHTING RUNS A STATE OF THE ART POWDER COAT PROCESS WITH A FIVE STAGE CHROMATE PRETREAT AND MULTI STAGE OVEN. THREE BOOTHS ARE FED SO WE ARE ABLE TO RUN MULTIPLE COLORS ON ANY GIVEN DAY. SPECTRUM ALSO HAS A CUSTOM "WET" BOOTH FOR SPECIAL AIR-DRY FINISHES AND PAINTS.

Please note that no printed image can equal the exact color of finish on metal.

## PAINT TIMES

TIER	COST	PAINT TIME*
Tier 1 - Standard Finishes	\$	⓪
Tier 2 - Typical Finishes	\$	⓪⓪
Tier 3 - Anodic Finishes	\$\$	⓪⓪⓪
Tier 4 - Alzak Finishes	\$\$\$	⓪⓪⓪⓪
Custom Color	Contact Factory	Contact Factory

\*CONTACT FACTORY FOR SPECIFIC PRODUCT LEAD TIMES

## FLANGE OPTIONS

### WF

White Flange



FOR USE WITH NON-MATTE WHITE TRIM FINISH

### MF

Matching Flange



### BF

Black Flange



FOR USE WITH NON-MATTE BLACK TRIM FINISH

### SF

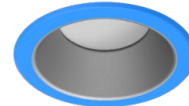
Platinum Flange



FOR USE WITH NON-PLATINUM TRIM FINISH

### CCF\*

Custom Color Flange



\*CONTACT FACTORY

## POWDER COAT PAINT FINISHES

### TIER 1

#### MW

Matte White



#### MB

Matte Black



#### PT

Platinum Silver



#### SG\*\*

Semi-Diffuse



\*\*ANODIZED FINISH

### TIER 2

#### SN

Sun Gold



#### BZ

Bronze



#### OB

Oil Rubbed Bronze



#### CH

Charcoal



#### CO

Copper Metallic



#### GH

Graphite



### TIER 3

#### AS

Anodic Sapphire



#### AN

Anodic Natural



#### AC

Anodic Champagne



#### AZ

Anodic Bronze



#### AM

Anodic Malachite



#### AK

Anodic Black



## ANODIZED ALZAK FINISHES

### TIER 4

#### CL

Bright Clear



#### HZ

Haze Full Diffuse



#### WE

Rose Gold



#### GO

Gold Alzak Semi-Diffuse



#### PW

Pewter Semi-Diffuse



### CC\*

Custom Color



\*CONTACT FACTORY

### AMB\*\*\*

Anti Microbial



\*\*\*WHITE FINISH ONLY

