



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 ¹	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

¹ Nominal Delivered Lumens at 35K with MW SO



PROJECT: _____
 QUANTITY: _____ TYPE: _____

MATTE WHITE
MATCHING FLANGE



MATTE BLACK
MATCHING FLANGE



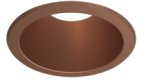
SEMI-DIFFUSE
MATCHING FLANGE



PLATINUM SILVER
MATCHING FLANGE

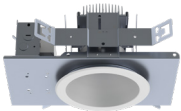


BRONZE
MATCHING FLANGE



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/TRIAC, 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

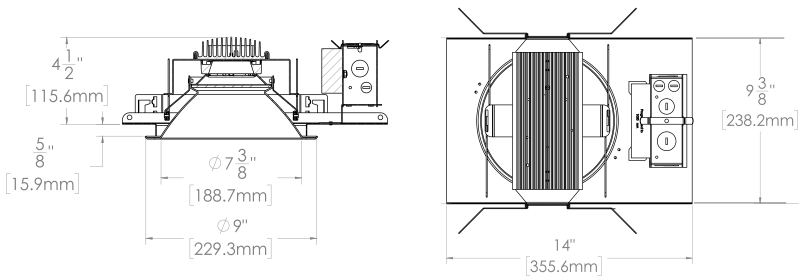
TRIM TYPE	FINISH	FLANGE FINISH	LENS	TRIM OPTIONS
Downlight AR8223FX	MW Matte White	MF Matching Flange Wall Wash Not Available with Tier 4 Finishes	STANDARD LENS FOR DOWNLIGHT SO Micro Prism Solite™ Lens	W Wet Location Gasket is Supplied with "W" Option
	MB Matte Black			
	SG Semi-Diffuse	NON MATCHING		
	PT Platinum Silver	WF White Flange		
Wall Wash AR8923FX	CC Custom Color Consult Factory	BF Black Flange	STANDARD LENS FOR WALL WASH SK Skytex™ Lens	GS Gasket
	See Color Guide for Full Range of Color Options	SF Platinum Flange		
		CCF Custom Color Flange Consult Factory		



HOUSING DIMENSIONS

SGE8LEDFX - NEW CONSTRUCTION

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



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								
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4				
	0°	2719	0° - 10°	261	6%	8'	42 fc	13.3'	10 fc	10'	8'	73	0.69	39	0.44
	5°	2706	0° - 20°	990	23%	10'	27 fc	16.6'	6 fc	12'	10'	45	0.43	24	0.27
	15°	2588	0° - 30°	2065	49%	12'	19 fc	20.0'	4 fc	16'	12'	22	0.21	27	0.31
	25°	2355	0° - 40°	3152	75%	14'	14 fc	23.3'	3 fc	Delivered Illuminance Rating: (DIR)					
	35°	1766	0° - 60°	4055	96%	16'	11 fc	26.6'	2 fc	106 FC per W/Sq. Ft.					
	45°	825	0° - 80°	4195	99%	20'	7 fc	33.3'	2 fc	89 FC per W/Sq. Ft.					
	55°	274	0° - 90°	4207	100%	24'	5 fc	40.0'	1 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					
	90°	2	Total	4220	100%	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								
			Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 2		RCR 4				
	0°	3145	0° - 10°	299	7%	8'	49 fc	11.9'	13 fc	12'	8'	64	0.61	54	0.61
	5°	3113	0° - 20°	1109	27%	10'	31 fc	14.8'	8 fc	16'	10'	43	0.41	27	0.30
	15°	2875	0° - 30°	2241	55%	12'	22 fc	17.8'	6 fc	20'	12'	26	0.25	16	0.18
	25°	2485	0° - 40°	3304	81%	14'	16 fc	20.8'	4 fc	Delivered Illuminance Rating: (DIR)					
	35°	1719	0° - 60°	4014	99%	16'	12 fc	23.7'	3 fc	104 FC per W/Sq. Ft.					
	45°	678	0° - 80°	4045	100%	20'	8 fc	29.7'	2 fc	89 FC per W/Sq. Ft.					
	55°	155	0° - 90°	4049	100%	24'	5 fc	35.6'	1 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					
	90°	2	Total	4064	100%	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

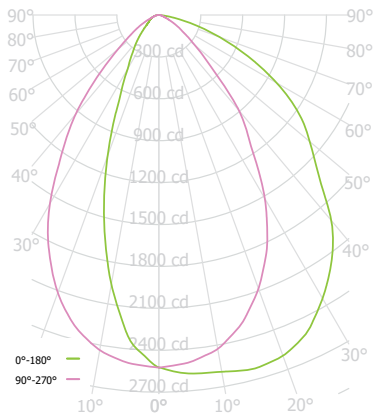
Lumen Multiplier: 10L x 0.18, 15L x 0.29, 20L x 0.39, 30L x 0.58, 40L x 0.78
CCT Multiplier: 27HK x 0.77, 30K x 0.96, 40K x 1.03, 50K x 1.04



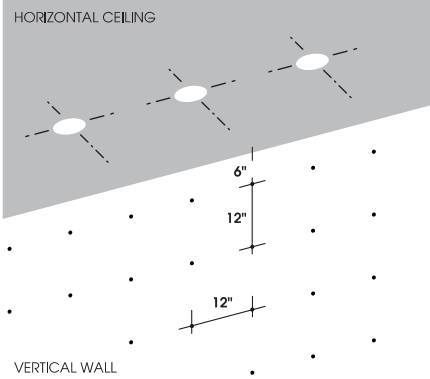
PHOTOMETRIC DATA - 8" ROUND WALL WASH

SGW8LEDFX 50L 35K XX AR8923FX MW WF SK

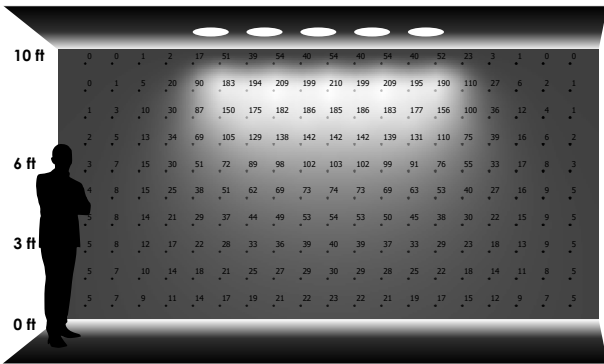
CANDLEPOWER CURVE TEST SP-01236	PERFORMANCE SUMMARY	REFERENCE DIAGRAM
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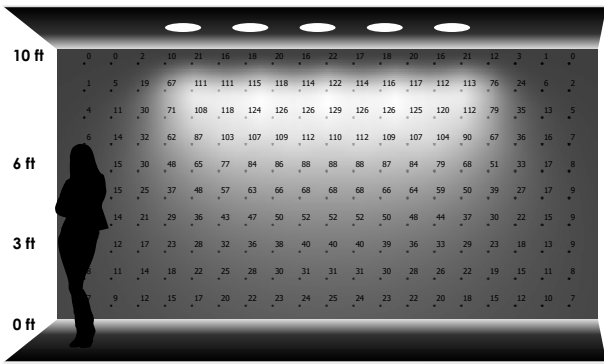
Delivered Lumens: 3478
 Luminaire Watts: 38.3
 LER: 90.81
 CP at 0deg (Nadir): 2524
 CRI: 80+
 Lumen Multiplier: 10L x 0.18, 15L x 0.29, 20L x 0.39, 30L x 0.58, 40L x 0.78
 CCT Multiplier: 27HK x 0.77, 30K x 0.96, 40K x 1.03, 50K x 1.04



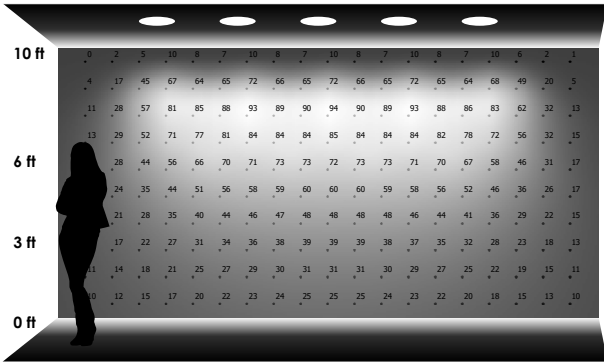
PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



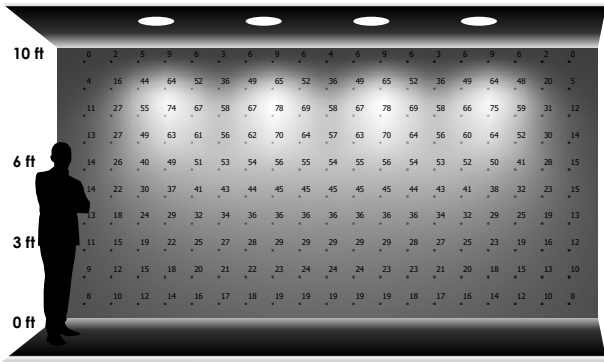
5 LUMINAIRES
 2'-0" away from wall
 2'-0" between luminaires



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



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

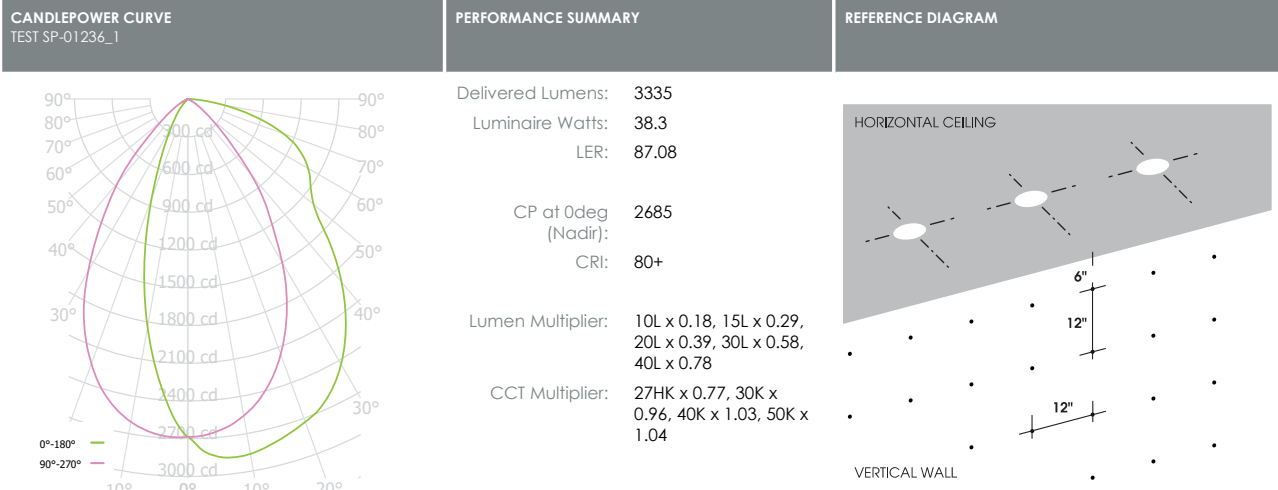


4 LUMINAIRES
 3'-0" away from wall
 4'-0" between luminaires

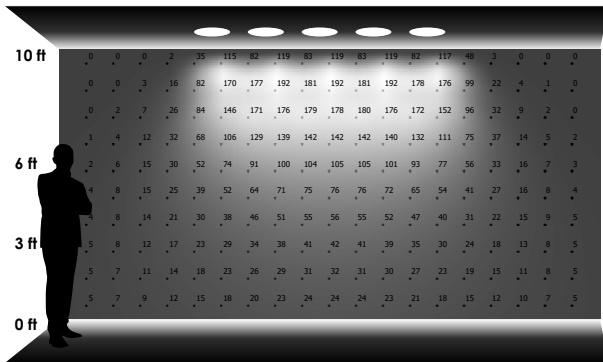


PHOTOMETRIC DATA - 8" ROUND WALL WASH

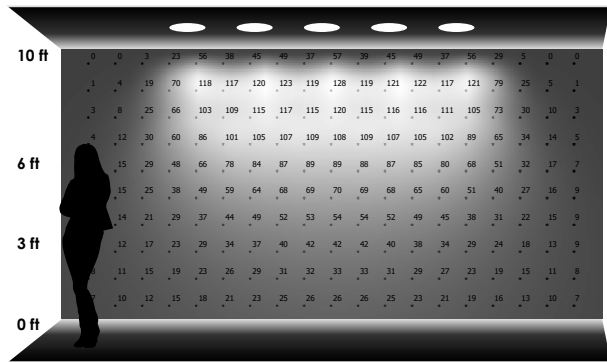
SGW8LEDX 50L 35K XX AR8923FX SG WF SK



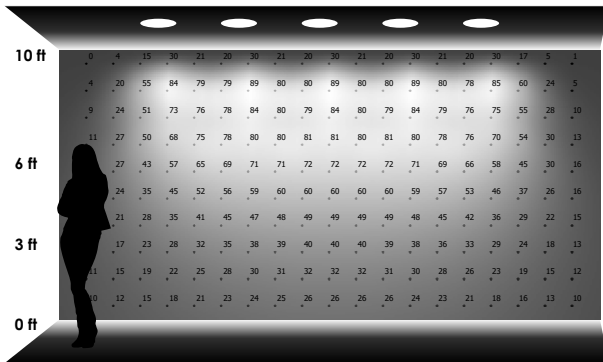
PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



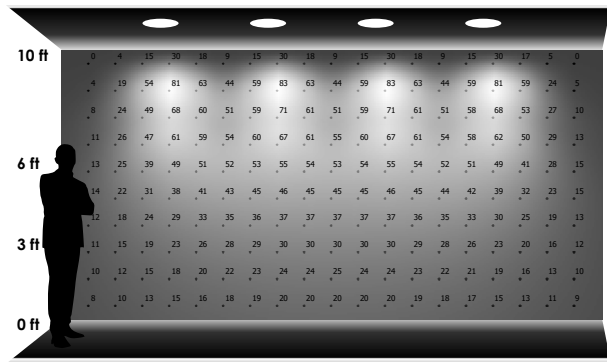
5 LUMINAIRES
2'-0" away from wall
2'-0" between luminaires



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

