



COMMERCIAL DOWNLIGHT SERIES BY SPECTRUM

6" SQUARE DOWNLIGHT

NON-IC CONSTRUCTION

Spectrum's Infinium 6" recessed square downlight series features a shallow plenum housing for general illumination.

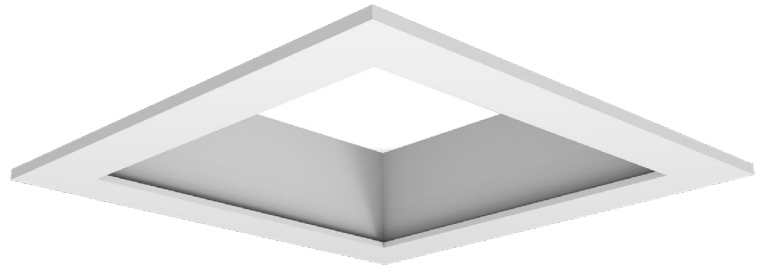
LUMENS AND WATTAGE CHART			
PART NUMBER	DELIVERED LUMENS ¹	SYSTEM WATTS	LPW
SGE6SQFX10L	783	6.6	119
SGE6SQFX15L	1217	10.5	116
SGE6SQFX20L	1651	14.4	115
SGE6SQFX30L	2476	21.9	113
SGE6SQFX40L	3344	30	111
SGE6SQFX50L	4255	38.3	111

¹ Nominal Delivered Lumens at 35K with MW SO

PROJECT: _____
 QUANTITY: _____ TYPE: _____



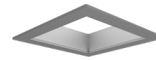
MATTE WHITE
MATCHING FLANGE



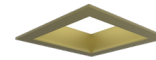
MATTE BLACK
MATCHING FLANGE



PLATINUM SILVER
MATCHING FLANGE



SUN GOLD
MATCHING FLANGE

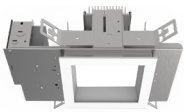


MATTE BLACK
WHITE FLANGE

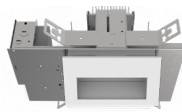


AVAILABLE HOUSING TYPE

SGE6SQFX - Downlight



SGW6SQFX - Wall Wash



PRODUCT SELECTOR GUIDE

SERIES	LUMENS	CRI / CCT	DRIVER / VOLTAGE	EMERGENCY	BAR HANGERS	TRIM TYPE	FINISH	FLANGE FINISH	LENS	TRIM OPTIONS
SGE6SQFX						CAO366FX				
SGE6SQFX	15L	35K	DX		BH27	CAO366FX	MW	MF	SO	

EXAMPLE

FIXTURE HOUSING SPECIFICATION

SERIES	LUMENS	CRI / CCT	DRIVER / VOLTAGE	EMERGENCY	BAR HANGERS
Downlight	10L 800 Lm	90 Minimum	DX 1%, 0-10V, 120V/277V	EMIT 7W Emergency Battery Test Switch in Trim Requires EMIT Trim. Not Available with Wall Wash	BH27 27" Solid Bars Standard Bar Hangers
SGE6SQFX	15L 1200 Lm	27HK 2700K	DS2W1 1%, ELV/TRIAC, 120V	EM Integral Emergency Battery EMRM Remote Emergency Battery Pack Installer Responsible For EM Access	H12 12" - 24" Expandable Bars
	20L 1650 Lm	30HK 3000K			CB24 24" C-Channel Bars
	30L 2500 Lm	35HK 3500K			
	40L 3350 Lm	40HK 4000K			
50L 4250 Lm	40HK 4000K	80 Minimum			
Wall Wash	Nominal Delivered Lumens at 35K with MW SO	30K 3000K			
SGW6SQFX		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

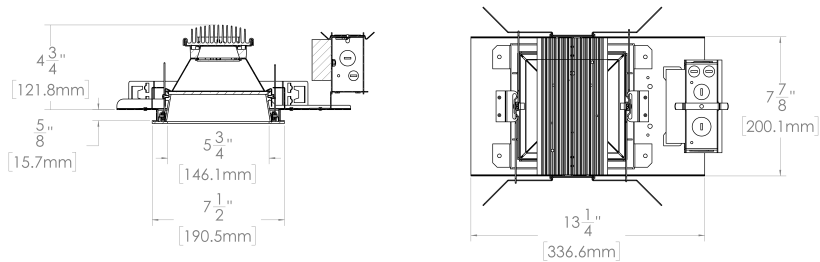
TRIM TYPE	FINISH	FLANGE FINISH	LENS	TRIM OPTIONS
Downlight	MW Matte White MB Matte Black PT Platinum Silver CC Custom Color Consult Factory	MF Matching Flange	STANDARD LENS FOR DOWNLIGHT SO Micro Prism Solite™ Lens	W Wet Location Gasket is Supplied with "W" Option GS Gasket
CAO366FX		NON MATCHING		
CAO366FXEMIT Requires EMIT Housing. Not Available with Wall Wash		WF White Flange	STANDARD LENS FOR WALL WASH SK Skytex™ Lens	
		BF Black Flange SF Platinum Flange CCF Custom Color Flange Consult Factory		
Wall Wash	See Color Guide for Full Range of Color Options	See Color Guide for Full Range of Color Options		
CAO396FX				



HOUSING DIMENSIONS

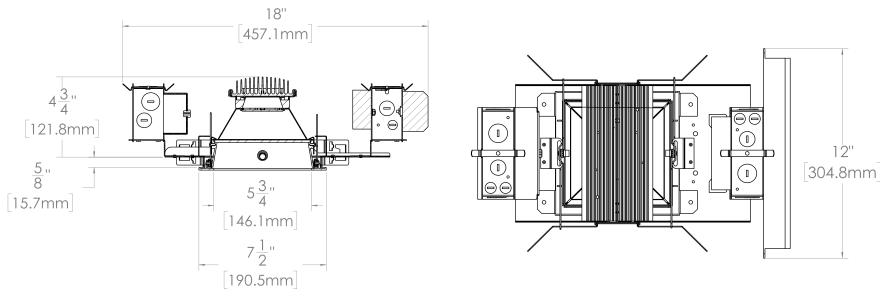
SGE6SQFX - NEW CONSTRUCTION

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



EMIT - EMERGENCY BATTERY TEST SWITCH IN TRIM

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



TRIM DATA

CA0366FX - DOWNLIGHT



CA0396FX - WALL WASH



FEATURES

APPLICATIONS

FX series 6" square downlights designed for general downlighting with smooth light distribution.

FEATURES

Shallow plenum construction. 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 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 die-cast 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 - 6" SQUARE DOWNLIGHT

SGE6SQLEDFX 50L 35K XX CA0366FX MW WF SO

CANDLEPOWER CURVE TEST SP-01219	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°	2731	0° - 10°	262	6%	8'	43 fc	11.0'	12 fc	10'	8'	72	0.68	38	0.44
	5°	2718	0° - 20°	995	23%	10'	27 fc	13.8'	8 fc	12'	10'	45	0.42	24	0.27
	15°	2604	0° - 30°	2042	48%	12'	19 fc	16.6'	5 fc	16'	12'	32	0.30	26	0.30
	25°	2266	0° - 40°	2975	70%	14'	14 fc	19.3'	4 fc	Delivered Illuminance Rating: (DIR)					
	35°	1329	0° - 60°	3833	90%	16'	11 fc	22.1'	3 fc	105 FC per W/Sq. Ft.		87 FC per W/Sq. Ft.			
	45°	568	0° - 80°	4210	99%	20'	7 fc	27.6'	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					
	55°	344	0° - 90°	4255	100%	24'	5 fc	33.1'	1 fc						
	90°	8	Total	4255	100%	28'	3 fc	38.6'	1 fc						

Delivered Lumens: 4255
Luminaire Watts: 38.3
LER: 111.10

CP at 0° (Nadir): 2731
CRI: 80+

Beam Angle: 69°
Spacing Ratio: 1.07

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

See Page 1 for System Watts for all outputs

SGE6SQLEDFX 50L 35K XX CA0366FX PT WF SO

CANDLEPOWER CURVE TEST SP-01219_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°	2603	0° - 10°	250	7%	8'	41 fc	11.1'	11 fc	10'	8'	64	0.68	35	0.44
	5°	2592	0° - 20°	958	26%	10'	26 fc	13.9'	7 fc	12'	10'	40	0.42	22	0.27
	15°	2511	0° - 30°	1984	54%	12'	18 fc	16.7'	5 fc	16'	12'	28	0.30	24	0.30
	25°	2234	0° - 40°	2894	78%	14'	13 fc	19.5'	4 fc	Delivered Illuminance Rating: (DIR)					
	35°	1291	0° - 60°	3562	96%	16'	10 fc	22.3'	3 fc	94 FC per W/Sq. Ft.		80 FC per W/Sq. Ft.			
	45°	461	0° - 80°	3685	100%	20'	7 fc	27.9'	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					
	55°	212	0° - 90°	3693	100%	24'	5 fc	33.4'	1 fc						
	90°	3	Total	3693	100%	28'	3 fc	39.0'	1 fc						

Delivered Lumens: 3693
Luminaire Watts: 38.3
LER: 96.42

CP at 0° (Nadir): 2603
CRI: 80+

Beam Angle: 70°
Spacing Ratio: 1.10

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

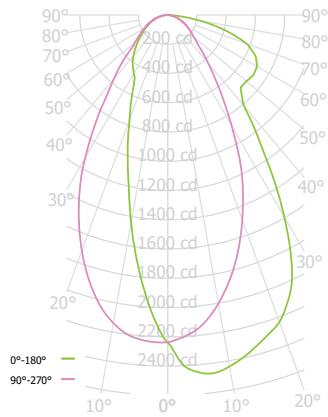
See Page 1 for System Watts for all outputs



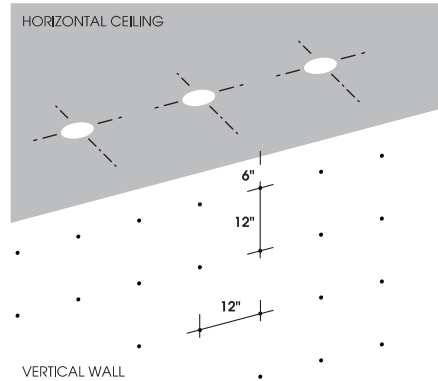
PHOTOMETRIC DATA - 6" SQUARE WALL WASH

SGW6SQLEDFX 50L 35K XX CA0396FX MW WF SK

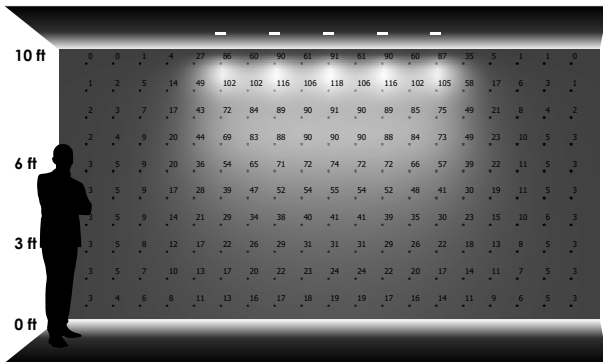
CANDLEPOWER CURVE TEST SP-01222	PERFORMANCE SUMMARY	REFERENCE DIAGRAM
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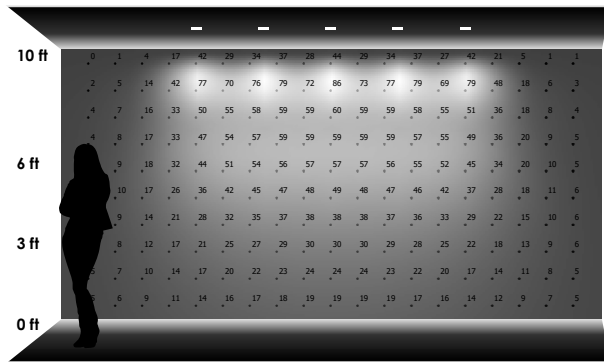
Delivered Lumens: 2694
 Luminaire Watts: 38.3
 LER: 70.34
 CP at 0deg (Nadir): 2238
 CRI: 80+
 Lumen Multiplier: 10L x 0.18, 15L x 0.29, 20L x 0.39, 30L x 0.58, 40L x 0.78
 CCT Multiplier: 27HK x 0.77, 30K x 0.96, 40K x 1.03, 50K x 1.04



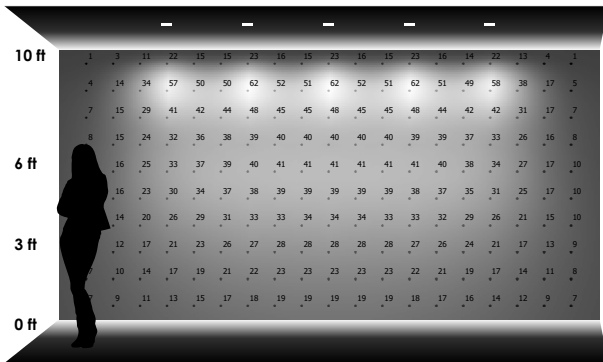
PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



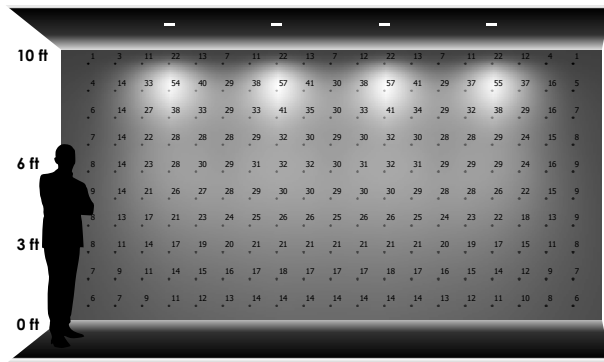
5 LUMINAIRES
 2'-0" away from wall
 2'-0" between luminaires



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



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



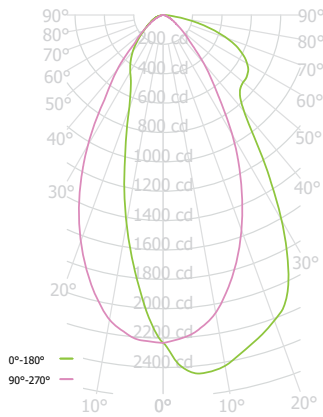
4 LUMINAIRES
 3'-0" away from wall
 4'-0" between luminaires



PHOTOMETRIC DATA - 6" SQUARE WALL WASH

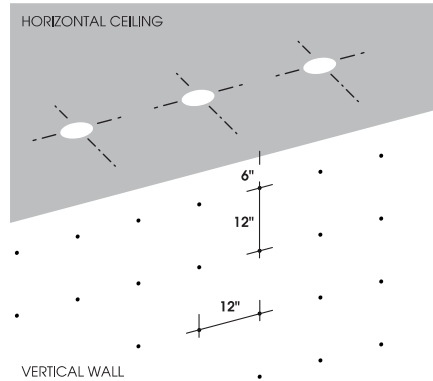
SGW6SQLEDFX 50L 35K XX CA0396FX PT WF SK

CANDLEPOWER CURVE TEST SP-01222_1	PERFORMANCE SUMMARY	REFERENCE DIAGRAM
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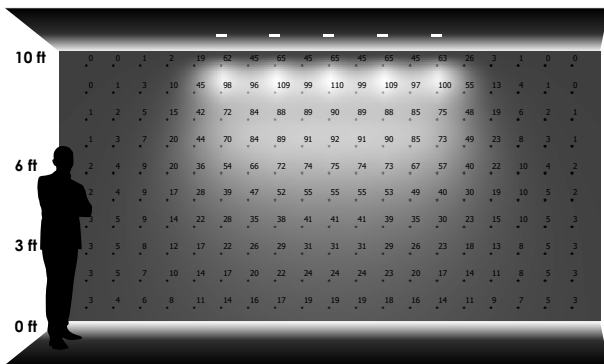


Delivered Lumens: 2406
 Luminaire Watts: 38.3
 LER: 62.82
 CP at 0deg (Nadir): 2232
 CRI: 80+

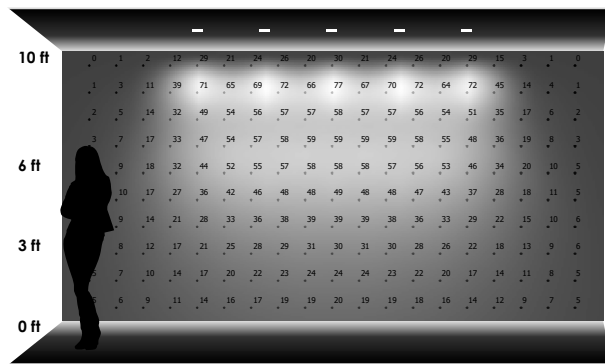
Lumen Multiplier:
 10L x 0.18, 15L x 0.29,
 20L x 0.39, 30L x 0.58,
 40L x 0.78
 CCT Multiplier:
 27HK x 0.77, 30K x
 0.96, 40K x 1.03, 50K x
 1.04



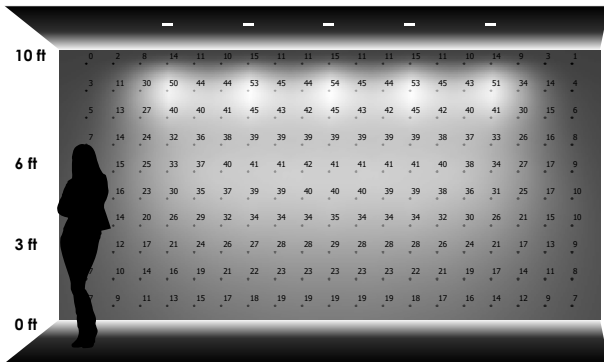
PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



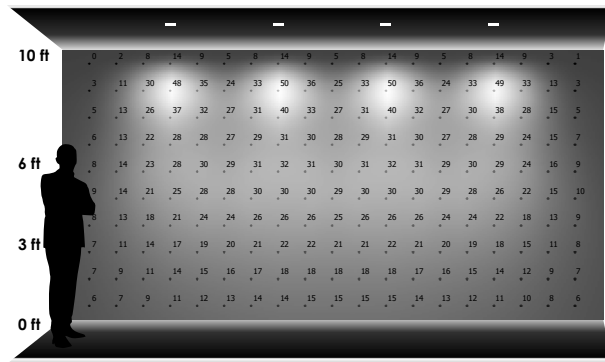
5 LUMINAIRES
 2'-0" away from wall
 2'-0" between luminaires



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

