



COMMERCIAL DOWNLIGHT SERIES BY SPECTRUM

4" SQUARE DOWNLIGHT

NON-IC CONSTRUCTION

Spectrum's Infinium 4" recessed square downlight series features a shallow plenum housing for general illumination.

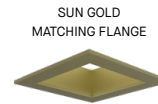
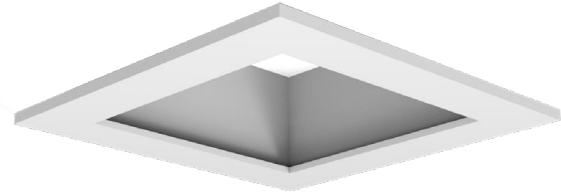
LUMENS AND WATTAGE CHART			
PART NUMBER	DELIVERED LUMENS ¹	SYSTEM WATTS	LPW
SGE4SQFX10L	687	6.6	104
SGE4SQFX15L	1067	10.5	102
SGE4SQFX20L	1448	14.4	101
SGE4SQFX30L	2172	21.9	99
SGE4SQFX40L	2933	30	98
SGE4SQFX50L	3732	38.3	97

¹ Nominal Delivered Lumens at 35K with MW SO

PROJECT: _____
 QUANTITY: _____ TYPE: _____

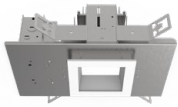


MATTE WHITE
MATCHING FLANGE

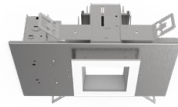


AVAILABLE HOUSING TYPE

SGE4SQFX - Downlight



SGW4SQFX - Wall Wash



PRODUCT SELECTOR GUIDE

SERIES	LUMENS	CRI / CCT	DRIVER / VOLTAGE	EMERGENCY	BAR HANGERS	TRIM TYPE	FINISH	FLANGE FINISH	LENS	TRIM OPTIONS
SGE4SQFX						CAO244FX				
EXAMPLE										
SGE4SQFX	15L	35K	DX		BH27	CAO244FX	MW	MF	SO	

FIXTURE HOUSING SPECIFICATION

SERIES	LUMENS	CRI / CCT	DRIVER / VOLTAGE	EMERGENCY	BAR HANGERS
Downlight SGE4SQFX	10L 700 Lm 15L 1050 Lm 20L 1450 Lm 30L 2200 Lm 40L 2950 Lm 50L 3750 Lm	90 Minimum 27HK 2700K 30HK 3000K 35HK 3500K 40HK 4000K	DX 1%, 0-10V, 120V/277V DS2W1 1%, ELV/MLV, 120V	EMIT 7W Emergency Battery Test Switch in Trim Requires EMIT Trim. Not Available with Wall Wash EM Integral Emergency Battery EMRM Remote Emergency Battery Pack Installer Responsible For EM Access	BH27 27" Solid Bars Standard Bar Hangers H12 12" - 24" Expandable Bars CB24 24" C-Channel Bars
Wall Wash SGW4SQFX	Nominal Delivered Lumens at 35K with MW SO	80 Minimum 30K 3000K 35K 3500K 40K 4000K 50K 5000K			

- Up to 3700 delivered lumens.
- Smooth light distribution for general illumination.
- Shallow plenum construction.
- Quick Ship options available.
- 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 CAO244FX	MW Matte White MB Matte Black PT Platinum Silver CC* Custom Color *Consult Factory	MF Matching Flange NON MATCHING WF White Flange BF Black Flange SF Platinum Flange CCF* Custom Color Flange *Consult Factory	STANDARD LENS FOR DOWNLIGHT SO Micro Prism Solite™ Lens	W Wet Location Gasket is Supplied with "W" Option GS Gasket
Wall Wash CAO294FX	See Page 6 for Full Range of Color Options (83-90182)	See Page 6 for Full Range of Color Options (83-90182)	STANDARD LENS FOR WALL WASH SK Skytex™ Lens	

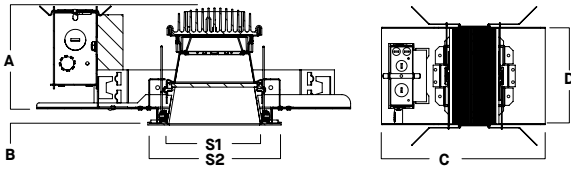
GREEN TEXT INDICATES QUICK SHIP OPTIONS



HOUSING DIMENSIONS

SGE4SQFX - NEW CONSTRUCTION

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

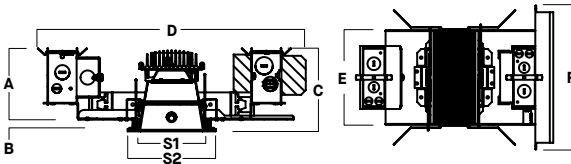


A	B	C	D	S1	S2
4.9	.625	13.3	7.9	3.8	5.4
124.5 mm	15.9 mm	337.8 mm	200.7 mm	96.5 mm	137.2 mm

Hole Cutout: 5" SQ

EMIT - EMERGENCY BATTERY TEST SWITCH IN TRIM

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



A	B	C	D	E	F	S1	S2
4.4	.625	5.0	16.5	7.9	12.0	3.8	5.4
111.76 mm	15.9 mm	127.0 mm	419.1 mm	200.0 mm	304.8 mm	96.5 mm	137.16 mm

TRIM DATA

CAO244FX - DOWNLIGHT



CAO249FX - WALL WASH



FEATURES

QUICK SHIP

Quick Ship highlights products that can ship in 3 - 5 working days.

APPLICATIONS

FX series 4" 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 - 4" SQUARE DOWNLIGHT

SGE4SQLEDFX 50L 35K XX CA0244FX MW WF SO

CANDLEPOWER CURVE TEST SP-01220	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° 262 7%	Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	<table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 2</th> <th colspan="2">RCR 4</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>10'</td> <td>6'</td> <td>91</td> <td>0.98</td> <td>75</td> <td>0.98</td> </tr> <tr> <td>12'</td> <td>8'</td> <td>56</td> <td>0.61</td> <td>47</td> <td>0.61</td> </tr> <tr> <td>16'</td> <td>10'</td> <td>38</td> <td>0.41</td> <td>23</td> <td>0.30</td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	10'	6'	91	0.98	75	0.98	12'	8'	56	0.61	47	0.61	16'	10'	38	0.41	23	0.30
	Ceiling Height	Fixture Spacing	RCR 2		RCR 4																														
			FC *	W/Sq. Ft.	FC *	W/Sq. Ft.																													
	10'	6'	91	0.98	75	0.98																													
	12'	8'	56	0.61	47	0.61																													
	16'	10'	38	0.41	23	0.30																													
	0°	0° - 20° 989 26%	8'	42 fc	9.2'	14 fc																													
	5°	0° - 30° 1901 51%	10'	27 fc	11.5'	9 fc																													
	15°	0° - 40° 2590 69%	12'	19 fc	13.9'	6 fc																													
	25°	0° - 60° 3346 90%	14'	14 fc	16.2'	5 fc																													
35°	0° - 80° 3687 99%	16'	11 fc	18.5'	4 fc																														
45°	0° - 90° 3721 100%	20'	7 fc	23.1'	2 fc																														
55°	Total 3732 100%	24'	5 fc	27.7'	2 fc																														
90°		28'	3 fc	32.3'	1 fc																														
Delivered Illuminance Rating: (DIR)		92 FC per W/Sq. Ft.		77 FC per W/Sq. Ft.																															
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																																			

Delivered Lumens: 3732
Luminaire Watts: 38.4
LER: 97.19

CP at 0° (Nadir): 2717
CRI: 80+

Beam Angle: 61°
Spacing Ratio: 0.91

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

SGE4SQLEDFX 50L 35K XX CA0244FX PT WF SO

CANDLEPOWER CURVE TEST SP-01220_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° 257 8%	Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	<table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 2</th> <th colspan="2">RCR 4</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>10'</td> <td>6'</td> <td>78</td> <td>0.98</td> <td>67</td> <td>0.98</td> </tr> <tr> <td>12'</td> <td>8'</td> <td>49</td> <td>0.61</td> <td>42</td> <td>0.61</td> </tr> <tr> <td>16'</td> <td>10'</td> <td>33</td> <td>0.41</td> <td>21</td> <td>0.30</td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	10'	6'	78	0.98	67	0.98	12'	8'	49	0.61	42	0.61	16'	10'	33	0.41	21	0.30
	Ceiling Height	Fixture Spacing	RCR 2		RCR 4																														
			FC *	W/Sq. Ft.	FC *	W/Sq. Ft.																													
	10'	6'	78	0.98	67	0.98																													
	12'	8'	49	0.61	42	0.61																													
	16'	10'	33	0.41	21	0.30																													
	0°	0° - 20° 975 31%	8'	41 fc	9.1'	14 fc																													
	5°	0° - 30° 1870 60%	10'	27 fc	11.4'	9 fc																													
	15°	0° - 40° 2501 80%	12'	18 fc	13.6'	6 fc																													
	25°	0° - 60° 3000 96%	14'	14 fc	15.9'	4 fc																													
35°	0° - 80° 3093 99%	16'	10 fc	18.2'	3 fc																														
45°	0° - 90° 3099 100%	20'	7 fc	22.7'	2 fc																														
55°	Total 3109 100%	24'	5 fc	27.3'	2 fc																														
90°		28'	3 fc	31.8'	1 fc																														
Delivered Illuminance Rating: (DIR)		79 FC per W/Sq. Ft.		68 FC per W/Sq. Ft.																															
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																																			

Delivered Lumens: 3109
Luminaire Watts: 38.4
LER: 80.96

CP at 0° (Nadir): 2653
CRI: 80+

Beam Angle: 60°
Spacing Ratio: 0.92

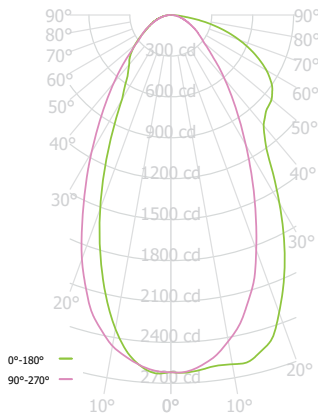
Lumen Multiplier: 10L x 0.18, 15L x 0.29, 20L x 0.39, 30L x 0.58, 40L x 0.78
CCT Multiplier: 27HK x 0.77, 30K x 0.96, 40K x 1.03, 50K x 1.04



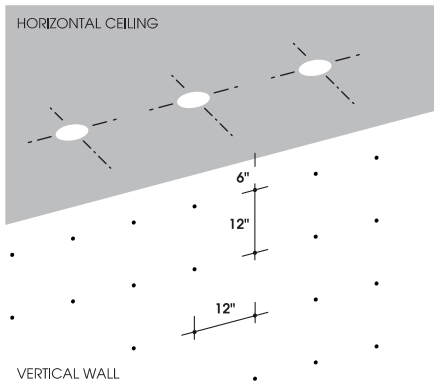
PHOTOMETRIC DATA - 4" SQUARE WALL WASH

SGW4SQLEDFX 50L 35K XX CA0294FX MW WF SK

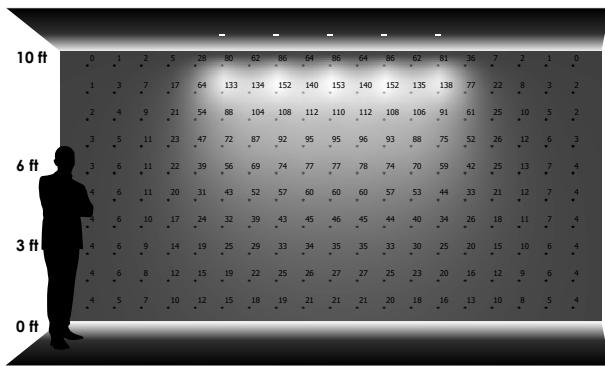
CANDLEPOWER CURVE TEST SP-01221	PERFORMANCE SUMMARY	REFERENCE DIAGRAM
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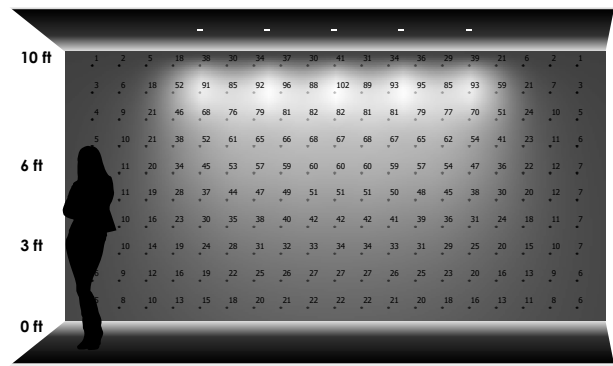
Delivered Lumens: 3259
 Luminaire Watts: 38.3
 LER: 85.09
 CP at 0deg (Nadir): 2619
 CRI: 80+
 Lumen Multiplier: 10L x 0.18, 15L x 0.29, 20L x 0.39, 30L x 0.58, 40L x 0.78
 CCT Multiplier: 27HK x 0.77, 30K x 0.96, 40K x 1.03, 50K x 1.04



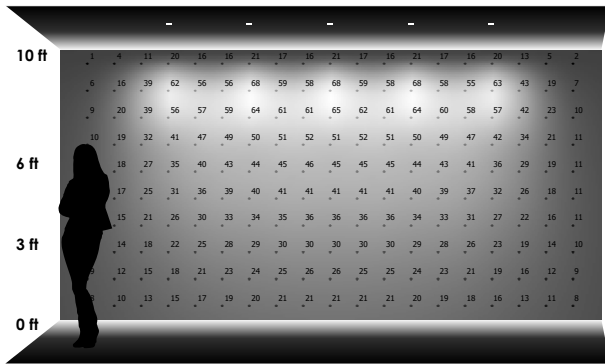
PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



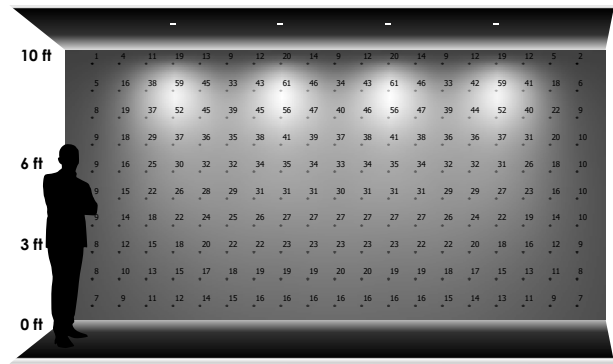
5 LUMINAIRES
 2'-0" away from wall
 2'-0" between luminaires



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

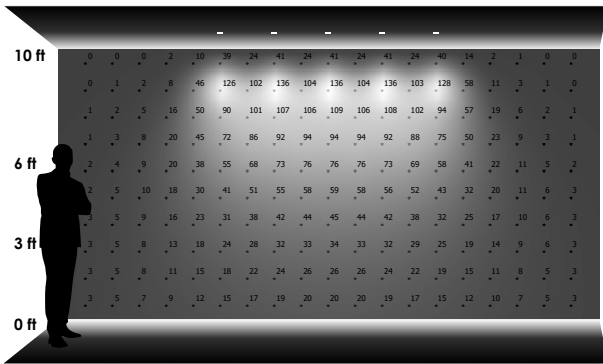


PHOTOMETRIC DATA - 4" SQUARE WALL WASH

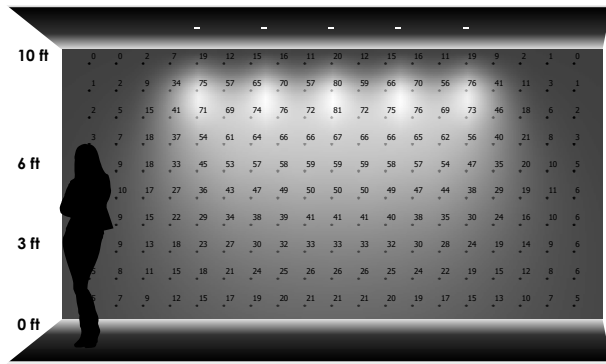
SGW4SQLEDFX 50L 35K XX CA0294FX PT WF SK

CANDLEPOWER CURVE TEST SP-01221_1	PERFORMANCE SUMMARY	REFERENCE DIAGRAM
	Delivered Lumens: 2863	
	Luminaire Watts: 38.3	
	LER: 74.75	
	CP at 0deg (Nadir): 2620	
	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	

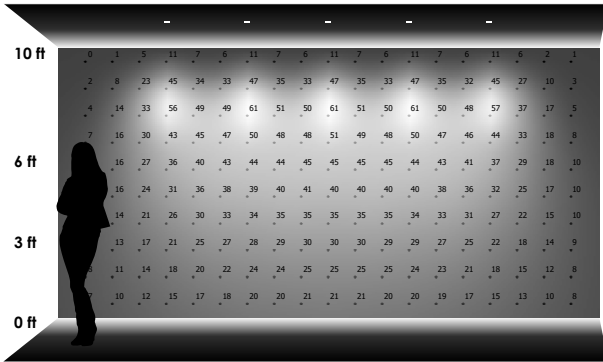
PERFORMANCE DATA - INITIAL ILLUMINATION (FOOTCANDLES) ON WALL - DIRECT LIGHT ONLY



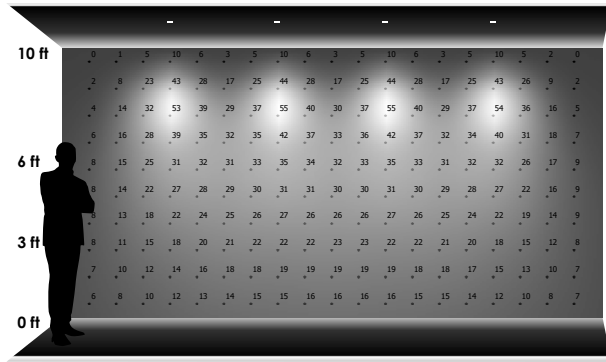
5 LUMINAIRES
2'-0" away from wall
2'-0" between luminaires



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



CAST TRIM AND FLANGE FINISH OPTIONS - RECESSED SQUARE



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

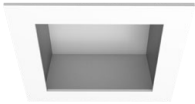
TIER	COST	PAINT TIME*
Tier 1 - Standard Finishes	\$	⌚
Tier 2 - Typical Finishes	\$	⌚⌚
Tier 3 - Anodic Finishes	\$\$	⌚⌚
Custom Color	Contact Factory	Contact Factory

*CONTACT FACTORY FOR SPECIFIC PRODUCT LEAD TIMES

FLANGE OPTIONS

WF

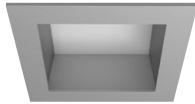
White Flange



FOR USE WITH NON-MATTE WHITE TRIM FINISH

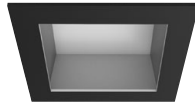
MF

Matching Flange



BF

Black Flange



FOR USE WITH NON-MATTE BLACK TRIM FINISH

SF

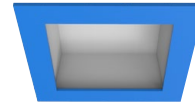
Platinum Flange



FOR USE WITH NON-PLATINUM TRIM FINISH

CCF*

Custom Color Flange



*CONTACT FACTORY

POWDER COAT PAINT FINISHES

TIER 1

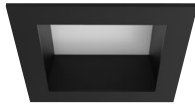
MW

Matte White



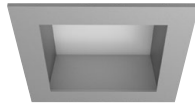
MB

Matte Black



PT

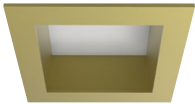
Platinum Silver



TIER 2

SN

Sun Gold



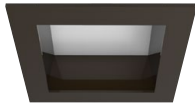
BZ

Bronze



OB

Oil Rubbed Bronze



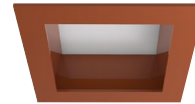
CH

Charcoal



CO

Copper Metallic



GH

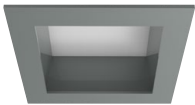
Graphite



TIER 3

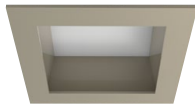
AS

Anodic Sapphire



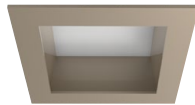
AN

Anodic Natural



AC

Anodic Champagne



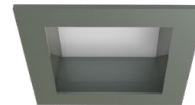
AZ

Anodic Bronze



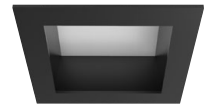
AM

Anodic Malachite



AK

Anodic Black



CC*

Custom Color



*CONTACT FACTORY

AMB**

Anti Microbial



**WHITE FINISH ONLY

