



4" SQUARE DIRECT

FOCUSED ILLUMINATION



C0412SQXT - CEILING MOUNT

APPLICATION

4" square x 12" high cylinder luminaire designed for focused illumination.

FEATURES

Spectrum's Cylinder series provides traditional architectural style with high performance and energy efficient illumination. Rugged design with flexible mounting, finish and LED options make these extremely versatile fixtures. Integral LED driver. Quick change LED module with interchangeable optics for job site flexibility and fixture upgrade.

FINISH

Multi-stage polyester powder-coat process applied on our dedicated paint lines. See mounting and color pages for standard finishes. All exposed materials are chromate pretreated to resist corrosion. Cylinder housing and trim are same finish.

ELECTRONICS

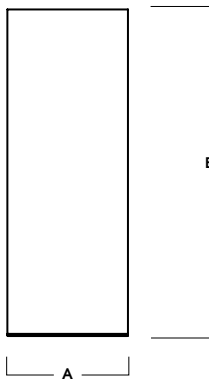
LED system features Xicato LED module with proprietary phosphor technology that provides consistent stable color with CCT control of +/- 100K over life of the light engine. Base CRI is 83 with 2-step MacAdam Ellipse binning. High CRI is 98 with 1 x 2-step MacAdam Ellipse binning. Variety of electronic 120V/277V and dimming drivers.

CONSTRUCTION

Fabricated seamless aluminum fixture housing. Specular primary reflector provides high efficiency illumination. Stainless steel hardware with galvanized brackets to resist corrosion. Die-cast aluminum trim.

CODE COMPLIANCE

BAA compliant. ETL certified to meet US and Canadian standards. Suitable for dry or damp locations. Manufactured and tested to UL standards No. 1598/8750.



A	B
4.5	12.0
114.3 mm	304.8 mm

Fixture Weight: 8.3 lbs

LUMENS / WATTAGE DATA				
PART NUMBER	SOURCE LUMENS ¹	DELIVERED LUMENS ²	SYSTEM WATTS	LPW
C0412SQXT7L	720	438	5.6	78
C0412SQXT10L	965	584	8.3	70
C0412SQXT13L	1300	790	11.9	66
C0412SQXT20L	2000	1216	19	64

SERIES	LUMENS ¹	CCT	OPTICS	DRIVER / VOLTAGE ⁴	OPTIONS ⁷	MOUNTING ¹⁰	FINISH ¹³	
C0412SQXT	7L	700 Lm	83 CRI	EX Electronic Driver, 120V/277V DS10X 10%, 0-10V, 120V/277V DO10X 1%, 0-10V, 120V/277V DS2W1 ELV/MLV, 120V DMXS^{5/6} DMX Standard Configuration DMXC^{5/6} DMX Non-Standard Custom	FS Fuse Holder and Fuse CR Corrosion Resistant	HM¹¹ Hang Straight PM¹¹ Rigid Pendant Mount AT¹¹ Hang Straight All Thread CD^{11/12} Cord / Cable Mount CM^{11/12} Cord Mount SM Surface Mount CGD⁵ DMX Large Driver Canopy	MW¹⁴ Matte White MB¹⁴ Matte Black PT¹⁴ Platinum Silver CC Custom Color	
	10L	1000 Lm	27K 2700K					XN³ 14° ND 23° MD 38° WD 47° XW 54°
	13L	1300 Lm	30K 3000K					
	20L	2000 Lm	35K 3500K					
			40K 4000K					
			98 CRI					
			27HK 2700K					
			30HK 3000K					
			35HK 3500K					
			40HK 4000K					
			NL No Lens GL⁸ Clear Glass Lens SO⁹ Micro Prism Solite™ Lens	LENS EMERGENCY BATTERY OPTIONS EMCR 10W Canopy Mounted EM EMRM 7W Remote EM EMEN 7W Remote with Enclosure	See Page 6 for Full Range of Color Options (83-90095)			

EXAMPLE: C0412SQXT20L35KXWEX/SO/HM36/MW

NOTES:
 1 Nominal Source Lumens at Any CCT 2 Nominal Delivered Lumens at 83 CRI at Any CCT with MD-SO-MW 3 13L Max/XN not Available with 7L or 98 CRI Option 4 Contact Factory for Additional Options 5 Contact Factory
 6 CGD Required for DMXS/C 7 See Product Options Page for Details 8 Standard Lens for XN, ND 9 Standard Lens for MD, WD, XW 10 See Mounting Page for Details on Components and Finishes 11 Specify Length in Inches: See Mounting Page for Available Lengths 12 EMxxx Option Requires 2 Cords 13 See Color Page for More Options/Consult Factory for Special Finishes 14 Standard Finishes



PROJECT: _____
 TYPE: _____



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.

4" SQUARE DIRECT

FOCUSED ILLUMINATION / FIXTURE OPTIONS

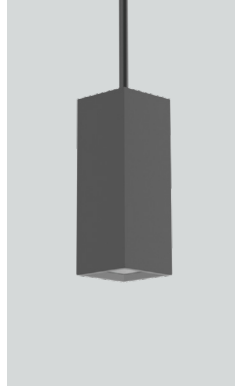


STANDARD FINISHES

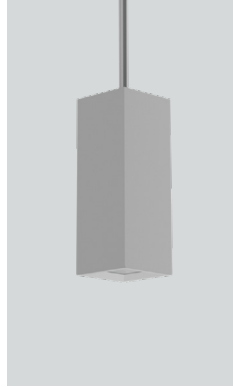
MW
MATTE WHITE



MB
MATTE BLACK

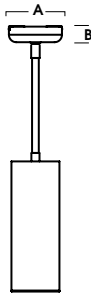
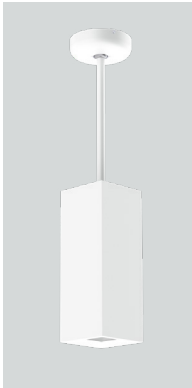


PT
PLATINUM SILVER



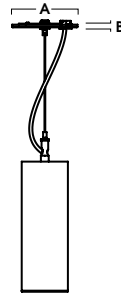
MOUNTING TYPES

HM / PM / AT
HANG STRAIGHT / PENDANT / ALL THREAD



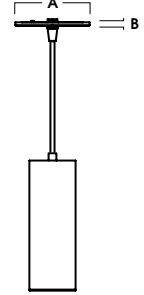
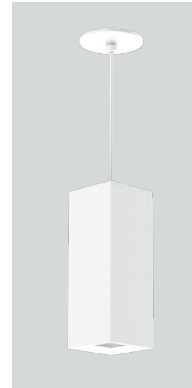
A	B
5.0	1.5
127.0 mm	38.1 mm

CD
CORD / CABLE MOUNT



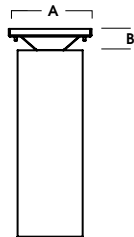
A	B
5.0	.25
127.0 mm	6.4 mm

CM
CORD MOUNT



A	B
5.0	.25
127.0 mm	6.4 mm

SM
SURFACE MOUNT



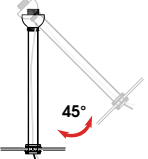
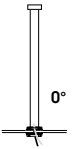
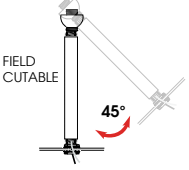
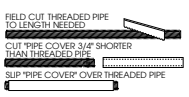


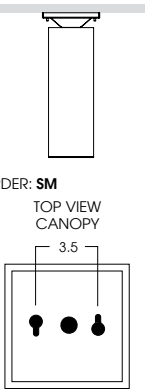
A	B
5.8	1.4
147.3 mm	35.6 mm

STANDARD MOUNTING & ACCESSORIES

SOME OPTIONS NOT AVAILABLE ON ALL FIXTURES. CONSULT SPECIFICATION SHEETS. SEE INDIVIDUAL SPECIFICATION SHEETS OR CONSULT FACTORY FOR ADDITIONAL INFORMATION. NOTE: THIS IS TYPICAL OF CYLINDERS SPECIFICATION FOR PENDANT MOUNTING. INDIVIDUAL FIXTURES OR PROJECTS MAY HAVE SPECIALIZED REQUIREMENTS.



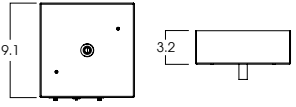
MOUNTING TYPES

<p>HM* HANG STRAIGHT 45° SWIVEL 5/8" OD STEM - 3/8" IP</p>  <p>ORDER: HM (Length) SPECIFY LENGTH: HM3 - 3" HM24 - 24" HM6 - 6" HM36 - 36" HM12 - 12" HM48 - 48" HM18 - 18" HM72 - 72" HMLC(XX) Custom Length (Specify in Inches)</p>	<p>PM* RIGID PENDANT MOUNT RIGID 5/8" OD STEM - 3/8" IP</p>  <p>ORDER: PM (Length) SPECIFY LENGTH: PM3 - 3" PM24 - 24" PM6 - 6" PM36 - 36" PM12 - 12" PM48 - 48" PM18 - 18" PM72 - 72" PMLC(XX) Custom Length (Specify in Inches)</p>	<p>AT** HANG STRAIGHT ALL THREAD 45° SWIVEL 5/8" OD STEM - 1/4" IP</p>  <p>ORDER: AT (Length) SPECIFY LENGTH: AT12 - 12" AT24 - 24" AT36 - 36"</p> 	<p>CD CORD / CABLE MOUNT SJ CORD WITH 1/16 SS CABLE</p>  <p>ORDER: CD (Length) SPECIFY LENGTH: CD36 - 36" CD72 - 72" CD144 - 144" CDLC(XX) Custom Length (Specify in Inches)</p>	<p>CM CORD MOUNT SJ CORD WITH STRAIN RELIEF</p>  <p>ORDER: CM (Length) SPECIFY LENGTH: CM36 - 36" CM72 - 72" CM144 - 144" CMLC(XX) Custom Length (Specify in Inches)</p>	<p>SM SURFACE MOUNT WIRING COMPARTMENT / TOP HAT</p>  <p>ORDER: SM TOP VIEW CANOPY 3.5"</p> <p>KEY SLOTS MOUNT CANOPY TO WALL JUNCTION BOX: JUNCTION BOX IS COVERED.</p>
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*MAXIMUM ONE PIECE STEM LENGTH IS 72". **MAXIMUM ONE PIECE STEM LENGTH IS 36". LONGER LENGTHS ARE POSSIBLE USING MULTIPLE STEMS AND COUPLERS.

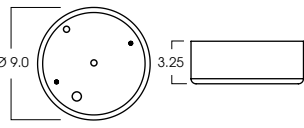
DMX OPTION

CQD - LARGE DRIVER CANOPY FOR DMX OPTIONS

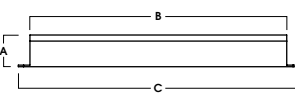
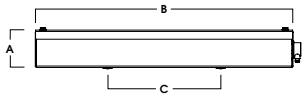


EMERGENCY BATTERY OPTIONS

EMCR - LARGE DRIVER CANOPY FOR 10W EMERGENCY BATTERY



REMOTE EMERGENCY BATTERY OPTIONS

<p>EMRM* - 7W REMOTE EMERGENCY BATTERY (50' MAX)</p>  <table border="1"> <thead> <tr> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>1.3</td> <td>12.6</td> <td>13.0</td> </tr> </tbody> </table>	A	B	C	1.3	12.6	13.0	<p>EMEN* - 7W REMOTE EMERGENCY BATTERY WITH ENCLOSURE (50' MAX)</p>  <table border="1"> <thead> <tr> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>2.0</td> <td>17.0</td> <td>6.2</td> </tr> </tbody> </table>	A	B	C	2.0	17.0	6.2
A	B	C											
1.3	12.6	13.0											
A	B	C											
2.0	17.0	6.2											

*OTHER EM BATTERY SIZES AVAILABLE. CONSULT FACTORY

4" SQUARE DIRECT

FOCUSED ILLUMINATION / PHOTOMETRIC DATA



C0412SQXT-13L-xxK-XN-EX-GL-xx-MW

CANDLEPOWER CURVE TEST SP-00628_3	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 6		RCR 8	
	0°	0° - 10° 581 50%	8'	206 fc	1.8'	101 fc	18'	3'	106	1.90	130	2.47
	0°	0° - 20° 872 74%	10'	132 fc	2.2'	65 fc	22'	4''	63	1.13	54	1.02
	5°	0° - 30° 1095 93%	12'	92 fc	2.7'	45 fc	26'	5'''	42	0.75	36	0.67
	15°	0° - 40° 1155 99%	14'	67 fc	3.1'	33 fc	Delivered Illuminance Rating: (DIR)		56 FC per W/Sq. Ft.		53 FC per W/Sq. Ft.	
	25°	0° - 60° 1164 99%	16'	52 fc	3.6'	25 fc	2' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 6: Length & Width = Ceiling Ht. - 4.5' x 1.66 RCR 8: Length & Width = Ceiling Ht. - 4.5' x 1.25					
	35°	0° - 80° 1169 100%	20'	33 fc	4.5'	16 fc	+ Average Footcandles at 2.5' Above Floor					
	45°	0° - 90° 1171 100%	24'	23 fc	5.4'	11 fc	* Exceeds Spacing Ratio by 1%					
	55°	0° - 90° 1171 100%	28'	17 fc	6.3'	8 fc	** Exceeds Spacing Ratio by 4%					
	90°	Total 1171 100%					*** Exceeds Spacing Ratio by 6%					

Delivered Lumens: 1171
Luminaire Watts: 19.5
LER: 60.05

CP at 0° (Nadir): 13204
CRI: 80+

Beam Angle: 13°
Spacing Ratio: 0.22

Lumen Multiplier: 10L x 0.74
CCT Multiplier: Same for all available CCT's

C0412SQXT-20L-xxK-ND-EX-GL-xx-MW

CANDLEPOWER CURVE TEST SP-00628_9_M-20L	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 4		RCR 6	
	0°	0° - 10° 428 30%	8'	90 fc	3.2'	42 fc	15'	4'	97	1.35	66	1.00
	0°	0° - 20° 961 67%	10'	58 fc	4.1'	27 fc	18'	5'	59	0.82	40	0.61
	5°	0° - 30° 1287 90%	12'	40 fc	4.9'	19 fc	22'	6'	35	0.49	37	0.56
	15°	0° - 40° 1387 97%	14'	29 fc	5.7'	14 fc	Delivered Illuminance Rating: (DIR)		72 FC per W/Sq. Ft.		66 FC per W/Sq. Ft.	
	25°	0° - 60° 1422 99%	16'	23 fc	6.5'	11 fc	2' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 4: Length & Width = Ceiling Ht. - 4.5' x 2.50 RCR 6: Length & Width = Ceiling Ht. - 4.5' x 1.66					
	35°	0° - 80° 1432 100%	20'	14 fc	8.1'	7 fc	+ Average Footcandles at 2.5' Above Floor					
	45°	0° - 90° 1437 100%	24'	10 fc	9.7'	5 fc	* Exceeds Spacing Ratio by 0%					
	55°	0° - 90° 1437 100%	28'	7 fc	11.3'	3 fc						
	90°	Total 1437 100%										

Delivered Lumens: 1437
Luminaire Watts: 19
LER: 75.63

CP at 0° (Nadir): 5763
CRI: 80+

Beam Angle: 23°
Spacing Ratio: 0.38

Lumen Multiplier: 7L x 0.36, 10L x 0.48, 13L x 0.65
CCT Multiplier: Same for all available CCT's

C0412SQXT-20L-xxK-MD-EX-SO-xx-MW

CANDLEPOWER CURVE TEST SP-00628_8_M-20L	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 3		RCR 5	
	0°	0° - 10° 224 18%	8'	39 fc	5.5'	16 fc	15'	5'	47	0.76	38	0.69
	0°	0° - 20° 658 54%	10'	25 fc	6.9'	10 fc	18'	6'	29	0.46	23	0.42
	5°	0° - 30° 1021 84%	12'	17 fc	8.3'	7 fc	22'	8'	17	0.27	14	0.25
	15°	0° - 40° 1161 95%	14'	13 fc	9.7'	5 fc	Delivered Illuminance Rating: (DIR)		62 FC per W/Sq. Ft.		56 FC per W/Sq. Ft.	
	25°	0° - 60° 1202 99%	16'	10 fc	11.0'	4 fc	2' Suspension Length to luminous aperture 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					
	35°	0° - 80° 1211 100%	20'	6 fc	13.8'	3 fc	+ Average Footcandles at 2.5' Above Floor					
	45°	0° - 90° 1215 100%	24'	4 fc	16.6'	2 fc						
	55°	0° - 90° 1215 100%	28'	3 fc	19.3'	1 fc						
	90°	Total 1216 100%										

Delivered Lumens: 1216
Luminaire Watts: 19
LER: 64.00

CP at 0° (Nadir): 2472
CRI: 80+

Beam Angle: 38°
Spacing Ratio: 0.60

Lumen Multiplier: 7L x 0.36, 10L x 0.48, 13L x 0.65
CCT Multiplier: Same for all available CCT's

4" SQUARE DIRECT

FOCUSED ILLUMINATION / PHOTOMETRIC DATA



C0412SQXT-20L-xxK-WD-EX-SO-xx-MW

CANDLEPOWER CURVE TEST SP-00628_14_M-20L	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 3		RCR 5				
	0°	2051	0° - 10°	195	15%	8'	32 fc	6.7'	13 fc	15'	5'	49	0.76	40	0.69
	5°	2002	0° - 20°	630	49%	10'	21 fc	8.3'	8 fc	18'	6'	30	0.46	24	0.42
	15°	1597	0° - 30°	1036	81%	12'	14 fc	10.0'	6 fc	22'	8'	18	0.27	14	0.25
	25°	815	0° - 40°	1204	94%	14'	10 fc	11.6'	4 fc	Delivered Illuminance Rating: (DIR)		65 FC per W/Sq. Ft.		58 FC per W/Sq. Ft.	
	35°	164	0° - 60°	1262	99%	16'	8 fc	13.3'	3 fc	2' Suspension Length to luminous aperture 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					
	45°	42	0° - 80°	1274	100%	20'	5 fc	16.6'	2 fc						
	55°	15	0° - 90°	1278	100%	24'	4 fc	20.0'	1 fc						
	90°	0	Total	1279	100%	28'	3 fc	23.3'	1 fc						

Delivered Lumens: 1279
Luminaire Watts: 19
LER: 67.32

CP at 0° (Nadir): 2051
CRI: 80+

Beam Angle: 45°
Spacing Ratio: 0.73

Lumen Multiplier: 7L x 0.36, 10L x 0.48, 13L x 0.65
CCT Multiplier: Same for all available CCT's

C0412SQXT-20L-xxK-XW-EX-SO-xx-MW

CANDLEPOWER CURVE TEST SP-00628_2_M-20L	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°	1501	0° - 10°	152	11%	6'	42 fc	6.1'	15 fc	12'	6'	35	0.49	30	0.49
	5°	1511	0° - 20°	553	41%	8'	23 fc	8.1'	8 fc	15'	8'	18	0.25	16	0.25
	15°	1430	0° - 30°	1003	74%	10'	15 fc	10.2'	5 fc	18'	10'	15	0.20	9	0.15
	25°	869	0° - 40°	1227	91%	12'	10 fc	12.2'	4 fc	Delivered Illuminance Rating: (DIR)		71 FC per W/Sq. Ft.		63 FC per W/Sq. Ft.	
	35°	233	0° - 60°	1327	98%	14'	8 fc	14.2'	3 fc	2' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 2: Length & Width = Ceiling Ht. - 4.5' x 5.00 RCR 4: Length & Width = Ceiling Ht. - 4.5' x 2.50 * Average Footcandles at 2.5' Above Floor					
	45°	66	0° - 80°	1343	100%	16'	6 fc	16.3'	2 fc						
	55°	23	0° - 90°	1347	100%	20'	4 fc	20.3'	1 fc						
	90°	0	Total	1348	100%	24'	3 fc	24.4'	1 fc						

Delivered Lumens: 1348
Luminaire Watts: 19
LER: 70.95

CP at 0° (Nadir): 1501
CRI: 80+

Beam Angle: 53°
Spacing Ratio: 0.87

Lumen Multiplier: 7L x 0.36, 10L x 0.48, 13L x 0.65
CCT Multiplier: Same for all available CCT's

COLOR OPTIONS - POWDER COAT PAINT FINISHES

NOTE: NO PRINTED IMAGE CAN EQUAL THE EXACT COLOR OF FINISH ON METAL.
SEE INDIVIDUAL SPECIFICATION SHEETS OR CONSULT FACTORY FOR ADDITIONAL INFORMATION.



STANDARD CORD / STEM / CANOPY FINISHES

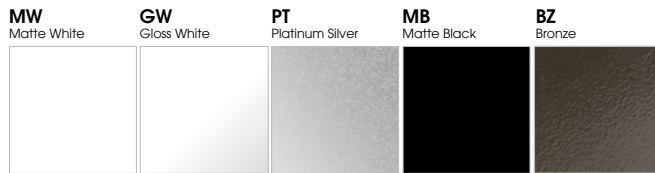
FIXTURE COLOR	STANDARD CORD COLOR	STANDARD CANOPY / STEM COLOR
Matte White, Textured White	Matte White	Matte White
Gloss White	Matte White	Gloss White
Matte Black, Textured Black	Matte Black	Matte Black
All Others	Matte Black	Same Color as Fixture
Custom Color	Contact Factory	Contact Factory

PAINT TIMES

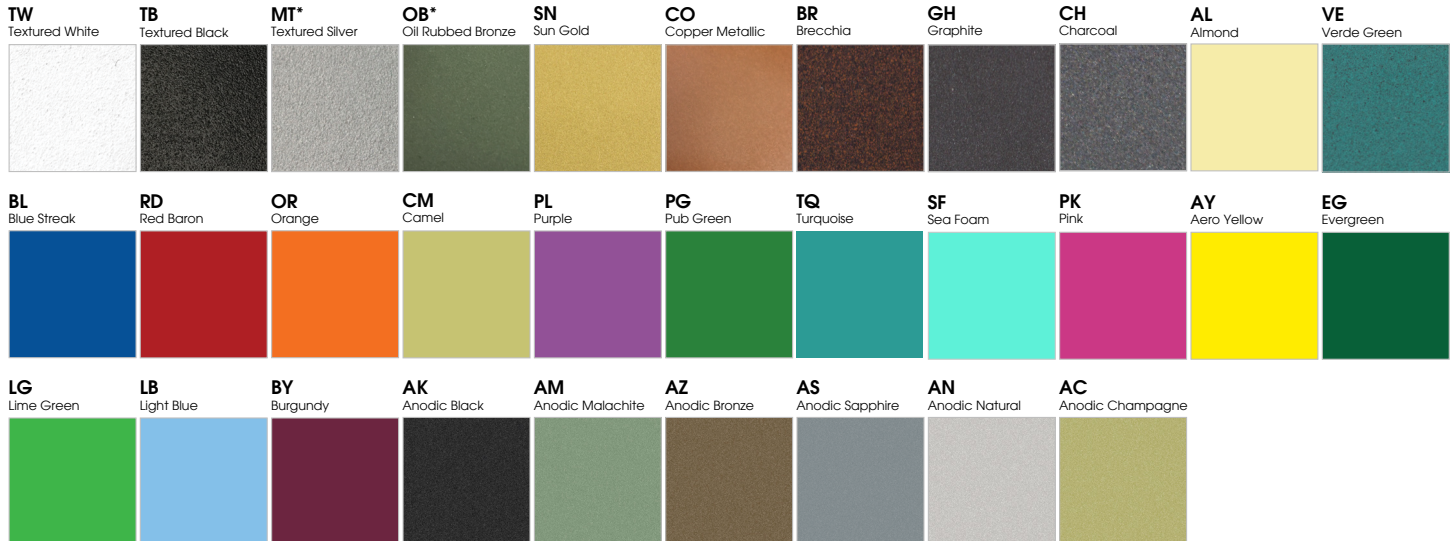
TIER	COST	AVERAGE PAINT TIME*
Tier 1 - Standard Finishes	\$	⌚
Tier 2 - Typical Finishes	\$\$	⌚⌚
Custom Color	Contact Factory	Contact Factory

*CONTACT FACTORY FOR SPECIFIC PRODUCT LEAD TIMES

TIER 1 - STANDARD FINISHES



TIER 2 - TYPICAL FINISHES



CUSTOM COLOR FINISHES

CONTACT FACTORY

CC
Custom Color



*UNAVAILABLE FOR WET LOCATION