



**4" ROUND DIRECT
DAMP LOCATION
GAMMA SERIES**

PROJECT: _____
 QUANTITY: _____ TYPE: _____



CF0406PC



CF0412PC



CF0418PC

SERIES	LUMENS ¹	CCT	OPTICS	DRIVER / DIMMING ²	LENS	MOUNTING ³	FINISH ⁶
CF0406PC 4" x 6"	10L 700 Lm	80 CRI	ND 20°	EX Electronic Driver, 120V/277V DO10X 1%, 0-10V, 120V/277V DS2W1 ELV/MLV, 120V	NL No Lens	HM ⁴ Hang Straight PM ⁴ Rigid Pendant Mount AT ⁴ Hang Straight All Thread CM ^{4/5} Cord Mount CD ^{4/5} Cord / Cable Mount CD72 72" Cord / Cable Mount SM Surface Mount	MW ⁷ Matte White MB ⁷ Matte Black PT ⁷ Platinum Silver CC Custom Color
	15L 1050 Lm	27K 2700K	MD 26°		CL Clear Glass Lens		
CF0412PC 4" x 12"	20L 1450 Lm	30K 3000K	WD 51°		SO Micro Prism Solite™ Lens		
		35K 3500K	XW 61°		HL Hex Louver		
CF0418PC 4" x 18"		90 CRI				EMERGENCY BATTERY OPTIONS	See Page 6 for Full Range of Color Options (83-90095)
		27HK 2700K 30HK 3000K				EMCRC ⁵ 10W Canopy Mounted EM EMRM ⁵ 7W Remote EM EMEN ⁵ 7W Remote with Enclosure	

QUICK SHIP

EXAMPLE: CF0406PC15L35KNDEX/NL/HM36/MW

NOTES:

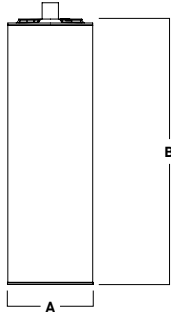
1 Nominal Delivered Lumens at 3500K 2 Consult Factory for Additional Options 3 See Mounting Page for Details on Components and Finishes 4 Specify Length in Inches: See Mounting Page for Available Lengths
 5 EMxx Option Not Available with CD and CM Mounting 6 See Color Page for More Options/Consult Factory for Special Finishes 7 Standard Finishes





4" ROUND DIRECT DAMP LOCATION GAMMA SERIES

DIMENSIONS



Dimensioned with **CF0412PC**

SERIES	A	B
CF0406PC	4.0	6.4
CF0412PC	4.0	12.4
CF0418PC	4.0	18.4

LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS ¹	SYSTEM WATTS	LPW
CF0412PC 10L	736	6.5	113
CF0412PC 15L	1089	9.5	115
CF0412PC 20L	1471	12.9	114

¹ Nominal Delivered Lumens at 3500K, 80 CRI, Medium Optic with Clear Lens

QUICK SHIP

Quick Ship highlights products that can ship in 5 - 10 working days.

APPLICATION

The Gamma Family of Cylinders are a robust offering of point source LED luminaires featuring high efficiencies, an assortment of optical control, and installation flexibility, which make them suitable for a wide range of commercial and institutional applications.

ELECTRONICS

Solid-state light engine available in various color temperatures and lumen outputs. Specifiable in 2700K, 3000K, 3500K, 4000K in CRI 80 (Typ.), or 2700K, 3000K in CRI 90 (Typ.), color accuracy ≤ 3 SDCM. Selection of integral electronic constant current, dimmable drivers available, power factor > 0.9 (Typ). Driver and light engine are field serviceable for future replacement or upgrades. Emergency battery options provide 10W or 7W for 90 minutes.

CONSTRUCTION

Seamless cylinder body machined from 6063 extruded aluminum. Trim and top cap are die-cast aluminum. Twist and lock trim design for no visible fasteners. Passive aluminum heatsink optimized for LED life and performance. Specular reflectors offered in variety of beam spreads. Lens accessory options available (maximum of 2). Luminaire will not exceed 5 lbs.

MOUNTING

All pendant option lengths are specified in inches. Mounting bracket and canopies provided for direct installation with 4" octagonal junction boxes. Hang Mount (3/8"NPT), All-Thread (1/4"IP), and Rigid Stem (3/8"IP) are 1/2" diameter and produced from steel pipe. Hang Mount and All-Thread options provide up to 45° tilt correction. Cord/Cable Mount kit provided with adjustable aircraft cable and power cord, allows field-adjustable suspension length. Cord Mount provided with power cord and strain reliefs. Surface mount kit provided with aluminum mounting plate to install directly to junction box. See mounting page for additional information. Contact factory for special installation circumstances.

FINISH

Multi-stage polyester powder-coat process applied on our in-house finishing department. Custom colors also available (contact factory with RAL#). Canopy and stems will match cylinder finish specification.

CODE COMPLIANCE

ETL Listed. Suitable for dry or damp locations with operation in ambient conditions up to 25°C. 5 year limited warranty on all components. Proudly designed and manufactured in Massachusetts, USA.

SERIES SIZES

CF0406PC



CF0412PC



CF0418PC



STANDARD FINISHES SHOWN WITH CF0412PC

MW
Matte White



MB
Matte Black



PT
Platinum Silver



CEILING MOUNT

(SEE MOUNTING PAGES FOR MORE OPTIONS & CANOPY DIMENSIONS.)

HM / AT / PM

HANG STRAIGHT / ALL THREAD / PENDANT



CF0412PC SHOWN WITH PM

CD

CORD / CABLE MOUNT



CF0412PC SHOWN WITH CD

CM

CORD MOUNT



CF0412PC SHOWN WITH CM

SM

SURFACE MOUNT



CF0412PC SHOWN WITH SM





4" ROUND DIRECT

GAMMA SERIES / PHOTOMETRIC DATA

CF04XXPC 20L 35K ND XX CL XX

CANDLEPOWER CURVE TEST SP-01069	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° 486 34%	Mounting Height AFF	<table border="1"> <thead> <tr> <th colspan="2">RCR 4</th> <th colspan="2">RCR 6</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>14'</td> <td>3'</td> <td>155</td> <td>1.46</td> <td>127</td> <td>1.30</td> </tr> <tr> <td>18'</td> <td>4'</td> <td>77</td> <td>0.72</td> <td>91</td> <td>0.92</td> </tr> <tr> <td>22'</td> <td>5'</td> <td>58</td> <td>0.55</td> <td>54</td> <td>0.55</td> </tr> </tbody> </table>	RCR 4		RCR 6		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	14'	3'	155	1.46	127	1.30	18'	4'	77	0.72	91	0.92	22'	5'	58	0.55	54	0.55
	RCR 4		RCR 6																											
	FC *	W/Sq. Ft.	FC *	W/Sq. Ft.																										
	14'	3'	155	1.46	127	1.30																								
	18'	4'	77	0.72	91	0.92																								
	22'	5'	58	0.55	54	0.55																								
	0° 7143	0° - 20° 945 66%	FC at Center on Floor	Beam Diameter	FC at Beam Edge																									
	5° 5957	0° - 30° 1240 86%	8'	112 fc	2.7'	53 fc																								
	15° 1567	0° - 40° 1408 98%	10'	71 fc	3.4'	34 fc																								
	25° 638	0° - 60° 1432 100%	12'	50 fc	4.1'	24 fc																								
	35° 275	0° - 80° 1437 100%	14'	36 fc	4.8'	17 fc																								
45° 11	0° - 90° 1439 100%	16'	28 fc	5.5'	13 fc																									
55° 10	Total 1439 100%	20'	18 fc	6.8'	9 fc																									
7500 cd		24'	12 fc	8.2'	6 fc																									
		28'	9 fc	9.5'	4 fc																									
				Delivered Illuminance Rating: (DIR) 106 FC per W/Sq. Ft. 98 FC per W/Sq. Ft.																										
				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 * Average Footcandles at 2.5' Above Floor																										

Delivered Lumens: 1439
Luminaire Watts: 12.9
LER: 111.55

CP at 0° (Nadir): 7143
CRI: 80

Beam Angle: 20°
Spacing Ratio: 0.33

Lumen Multiplier: 10L x 0.5, 15L x 0.74
CCT Multiplier: 27K x 0.972, 30K x 0.981, 40K x 1.04
27HK x 0.78, 30HK x 0.82

CF04XXPC 20L 35K MD XX CL XX

CANDLEPOWER CURVE TEST SP-01068	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° 371 25%	Mounting Height AFF	<table border="1"> <thead> <tr> <th colspan="2">RCR 3</th> <th colspan="2">RCR 5</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>14'</td> <td>4'</td> <td>93</td> <td>0.82</td> <td>91</td> <td>0.89</td> </tr> <tr> <td>18'</td> <td>6"</td> <td>46</td> <td>0.41</td> <td>45</td> <td>0.44</td> </tr> <tr> <td>22'</td> <td>8"</td> <td>21</td> <td>0.19</td> <td>17</td> <td>0.17</td> </tr> </tbody> </table>	RCR 3		RCR 5		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	14'	4'	93	0.82	91	0.89	18'	6"	46	0.41	45	0.44	22'	8"	21	0.19	17	0.17
	RCR 3		RCR 5																											
	FC *	W/Sq. Ft.	FC *	W/Sq. Ft.																										
	14'	4'	93	0.82	91	0.89																								
	18'	6"	46	0.41	45	0.44																								
	22'	8"	21	0.19	17	0.17																								
	0° 4763	0° - 20° 909 62%	FC at Center on Floor	Beam Diameter	FC at Beam Edge																									
	5° 4247	0° - 30° 1260 86%	8'	74 fc	3.7'	34 fc																								
	15° 1954	0° - 40° 1438 98%	10'	48 fc	4.6'	22 fc																								
	25° 749	0° - 60° 1463 99%	12'	33 fc	5.6'	15 fc																								
	35° 286	0° - 80° 1469 100%	14'	24 fc	6.5'	11 fc																								
45° 15	0° - 90° 1471 100%	16'	19 fc	7.4'	9 fc																									
55° 6	Total 1471 100%	20'	12 fc	9.3'	5 fc																									
5000 cd		24'	8 fc	11.1'	4 fc																									
		28'	6 fc	13.0'	3 fc																									
				Delivered Illuminance Rating: (DIR) 112 FC per W/Sq. Ft. 102 FC per W/Sq. Ft.																										
				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 ** Exceeds Spacing Ratio by 3% *** Exceeds Spacing Ratio by 6%																										

Delivered Lumens: 1471
Luminaire Watts: 12.9
LER: 114.03

CP at 0° (Nadir): 4763
CRI: 80

Beam Angle: 26°
Spacing Ratio: 0.43

Lumen Multiplier: 10L x 0.5, 15L x 0.74
CCT Multiplier: 27K x 0.972, 30K x 0.981, 40K x 1.04
27HK x 0.78, 30HK x 0.82

CF04XXPC 20L 35K WD XX CL XX

CANDLEPOWER CURVE TEST SP-01070	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° 207 14%	Mounting Height AFF	<table border="1"> <thead> <tr> <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>14'</td> <td>6'</td> <td>43</td> <td>0.37</td> <td>38</td> <td>0.37</td> </tr> <tr> <td>18'</td> <td>8'</td> <td>21</td> <td>0.18</td> <td>19</td> <td>0.18</td> </tr> <tr> <td>22'</td> <td>10'</td> <td>16</td> <td>0.14</td> <td>11</td> <td>0.11</td> </tr> </tbody> </table>	RCR 2		RCR 4		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	14'	6'	43	0.37	38	0.37	18'	8'	21	0.18	19	0.18	22'	10'	16	0.14	11	0.11
	RCR 2		RCR 4																											
	FC *	W/Sq. Ft.	FC *	W/Sq. Ft.																										
	14'	6'	43	0.37	38	0.37																								
	18'	8'	21	0.18	19	0.18																								
	22'	10'	16	0.14	11	0.11																								
	0° 2121	0° - 20° 716 48%	FC at Center on Floor	Beam Diameter	FC at Beam Edge																									
	5° 2136	0° - 30° 1220 82%	6'	59 fc	5.7'	22 fc																								
	15° 1874	0° - 40° 1457 98%	8'	33 fc	7.7'	12 fc																								
	25° 1111	0° - 60° 1483 100%	10'	21 fc	9.6'	8 fc																								
	35° 365	0° - 80° 1487 100%	12'	15 fc	11.5'	5 fc																								
45° 15	0° - 90° 1488 100%	14'	11 fc	13.4'	4 fc																									
55° 2	Total 1488 100%	16'	8 fc	15.3'	3 fc																									
2200 cd		20'	5 fc	19.2'	2 fc																									
		24'	4 fc	23.0'	1 fc																									
				Delivered Illuminance Rating: (DIR) 118 FC per W/Sq. Ft. 105 FC per W/Sq. Ft.																										
				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																										

Delivered Lumens: 1488
Luminaire Watts: 12.9
LER: 115.35

CP at 0° (Nadir): 2121
CRI: 80

Beam Angle: 51°
Spacing Ratio: 0.81

Lumen Multiplier: 10L x 0.5, 15L x 0.74
CCT Multiplier: 27K x 0.972, 30K x 0.981, 40K x 1.04
27HK x 0.78, 30HK x 0.82



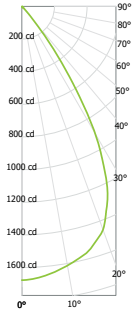


4" ROUND DIRECT

GAMMA SERIES / PHOTOMETRIC DATA

CF04XXPC 20L 35K XW XX CL XX

CANDLEPOWER CURVE
TEST SP-01071



INTENSITY
CANDELA
0° AZIMUTH

0°	0° - 10°	0° - 20°	0° - 30°	0° - 40°	0° - 60°	0° - 80°	0° - 90°	Total
1678	159	596	1150	1432	1462	1466	1468	1468
5°	1656							
15°	1558							
25°	1243							
35°	447							
45°	18							
55°	3							
90°	1							

ZONAL LUMENS

0° - 10°	0° - 20°	0° - 30°	0° - 40°	0° - 60°	0° - 80°	0° - 90°	Total
159	596	1150	1432	1462	1466	1468	1468
11%	41%	78%	98%	100%	100%	100%	100%

SINGLE UNIT: PERFORMANCE
DIRECT FOOTCANDLES
BASED ON DOWNLIGHT ONLY

Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge
6'	47 fc	7.1'	15 fc
8'	26 fc	9.5'	8 fc
10'	17 fc	11.8'	5 fc
12'	12 fc	14.2'	4 fc
14'	9 fc	16.6'	3 fc
16'	7 fc	19.0'	2 fc
20'	4 fc	23.7'	1 fc
24'	3 fc	28.4'	1 fc

MULTIPLE UNITS: PERFORMANCE
80/50/20% REFLECTANCES
INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT

Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.
14'	8'	24	0.21	21	0.21
16'	10'	16	0.14	14	0.14
22'	12'	10	0.08	6	0.06
Delivered Illuminance Rating: (DIR)		116 FC per W/Sq. Ft.		102 FC per W/Sq. Ft.	
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					

Delivered Lumens: **1468**
Luminaire Watts: **12.9**
LER: **113.80**

CP at 0° (Nadir): **1678**
CRI: **80**

Beam Angle: **61°**
Spacing Ratio: **0.98**

Lumen Multiplier: 10L x 0.5, 15L x 0.74
CCT Multiplier: 27K x 0.972, 30K x 0.981, 40K x 1.04
27HK x 0.78, 30HK x 0.82



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.



CANOPY DIMENSIONS

HM / PM / AT CANOPY		CM CANOPY		CD CANOPY		SM CANOPY		EMCRC CANOPY	
A	B	A	B	A	B	A		A	B
5.0	1.5	5.0	.25	5.0	.25	4.9		9.0	3.25
127.0 mm	38.1 mm	127.0 mm	6.4 mm	127.0 mm	6.4 mm	124.5 mm		228.6 mm	82.6 mm

MOUNTING TYPES

HM*	PM*	AT**	CM	CD	SM
HANG STRAIGHT	RIGID PENDANT MOUNT	HANG STRAIGHT ALL THREAD	CORD MOUNT	CORD / CABLE MOUNT	SURFACE MOUNT
45° SWIVEL 5/8" OD STEM - 3/8" IP	RIGID 5/8" OD STEM - 3/8" IP	45° SWIVEL 5/8" OD STEM - 1/4" IP	SJ CORD WITH STRAIN RELIEF	SJ CORD WITH 1/16 SS CABLE	
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)	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)	ORDER: AT (Length) SPECIFY LENGTH: AT12 - 12" AT24 - 24" AT36 - 36" 	ORDER: CM (Length) SPECIFY LENGTH: CM36 - 36" CM72 - 72" CM144 - 144" CMLC(XX) Custom Length (Specify in Inches)	ORDER: CD (Length) SPECIFY LENGTH: CD36 - 36" CD72 - 72" CD144 - 144" CDLC(XX) Custom Length (Specify in Inches)	ORDER: SM (Flush to Ceiling)
*MAXIMUM ONE PIECE STEM LENGTH IS 72". **MAXIMUM ONE PIECE STEM LENGTH IS 36". LONGER LENGTHS ARE POSSIBLE USING MULTIPLE STEMS AND COUPLERS.					

REMOTE EMERGENCY BATTERY OPTIONS

EMRM* - 7W REMOTE EMERGENCY BATTERY (50' MAX)			EMEN* - 7W REMOTE EMERGENCY BATTERY WITH ENCLOSURE (50' MAX)		
A	B	C	A	B	C
1.3	12.6	13.0	2.0	17.0	6.2

*OTHER EM BATTERY SIZES AVAILABLE, CONSULT FACTORY



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

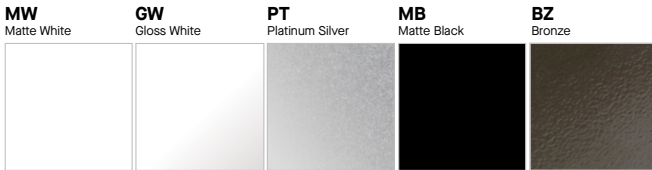
FIXTURE COLOR	STANDARD CORD COLOR	STANDARD CANOPY / STEM COLOR
Matte White, Textured White	Matte White	Matte White
Gloss White	Matte White	Gloss White
Matte Black, Textured Black	Matte Black	Matte Black
All Others	Matte Black	Same Color as Fixture
Custom Color	Contact Factory	Contact Factory

PAINT TIMES

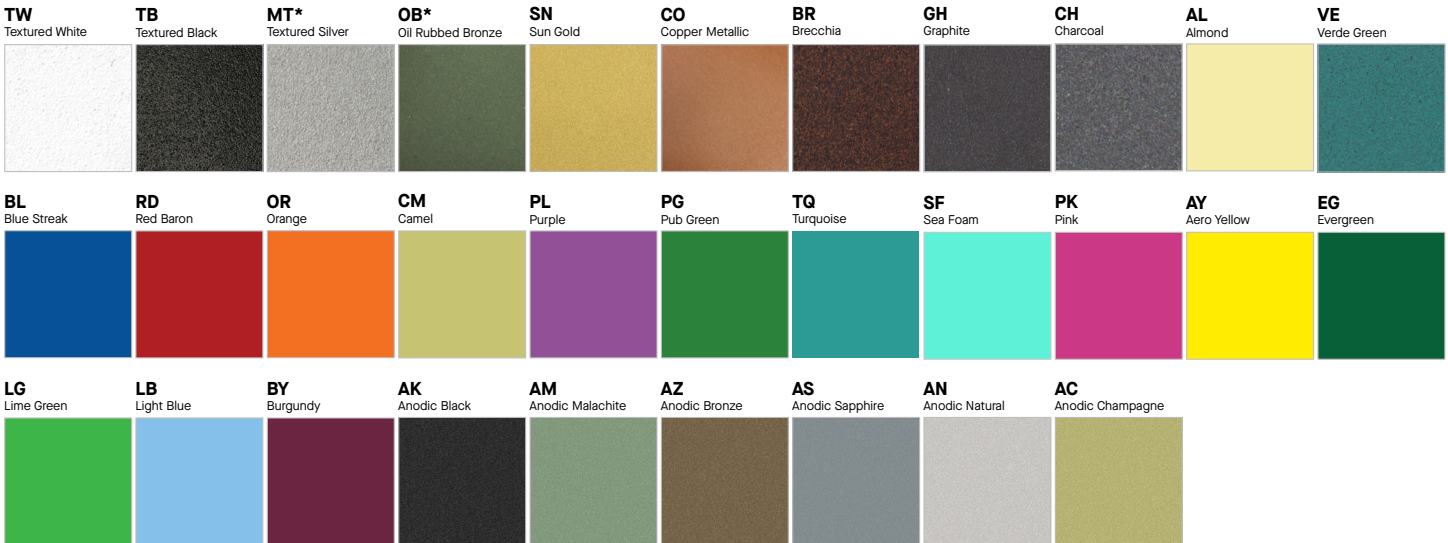
TIER	COST	AVERAGE PAINT TIME*
Tier 1 - Standard Finishes	\$	⌚
Tier 2 - Typical Finishes	\$\$	⌚⌚
Custom Color	Contact Factory	Contact Factory

*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

