



4" ROUND DIRECT PRO-FORM SERIES



C0412XT - CEILING MOUNT

APPLICATION

4" round x 12" high luminaire is a compact design for high output focused illumination.

FEATURES

Spectrum's Cylinder series provides contemporary 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.

ELECTRONICS

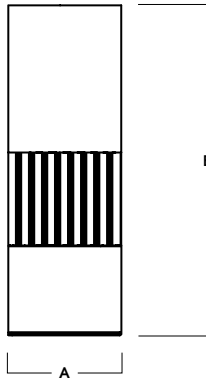
LED system features Xicato LED module with proprietary phosphor technology that provides consistent stable color with CCT control of +/- 100K over life of the light engine. Base CRI is 83 with 2-step MacAdam Ellipse binning. High CRI is 98 with 1 x 2-step MacAdam Ellipse binning. Variety of electronic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

CONSTRUCTION

Fabricated seamless aluminum fixture housing. Primary reflector provides high efficiency illumination. Stainless steel hardware with galvanized brackets to resist corrosion. Die-cast aluminum bezel. Passive aluminum integral heat sink.

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
4.0	11.25
101.6 mm	285.8 mm

Fixture Weight: 7.8 lbs

LUMENS / WATTAGE DATA				
PART NUMBER	SOURCE LUMENS ¹	DELIVERED LUMENS ²	SYSTEM WATTS ³	LPW
C0412XT10L	1000	698	9	77
C0412XT13L	1300	941	13	72
C0412XT20L	2000	1448	22	67
C0412XT30L	3000	2171	33	67
C0412XT40L	4000	2787	38	74

SERIES	LUMENS ¹	CCT	OPTICS	DRIVER / DIMMING ⁴	OPTIONS ⁶	MOUNTING ⁹	FINISH ¹²
C0412XT	10L 1000 Lm	83 CRI	ND 17°	EX Electronic Driver, 120V/277V	CR Corrosion Resistant	HM ¹⁰ Hang Straight	MW ¹³ Matte White
	13L 1300 Lm	27K 2700K	MD 27°	DS10X 10%, 0-10V, 120V/277V	BB Black Baffle	PM ¹⁰ Rigid Pendant Mount	MB ¹³ Matte Black
	20L 2000 Lm	30K 3000K	WD 37°	DO10X 1%, 0-10V, 120V/277V	HL34 Hex Louver	AT ¹⁰ Hang Straight All Thread	PT ¹³ Platinum Silver
	30L 3000 Lm	35K 3500K	XW 54°	DS2W1 ⁵ ELV/MLV, 120V		CD ^{10/11} Cord / Cable Mount	CC Custom Color
	40L 4000 Lm	40K 4000K				SM Surface Mount	
			98 CRI			YK Yoke Mount	
		27HK 2700K					
		30HK 3000K					
		35HK 3500K					
		40HK 4000K					
					LENS	EMERGENCY BATTERY OPTIONS	See Page 6 for Full Range of Color Options (83-90095)
					NL No Lens	EMCR 10W Canopy Mounted EM	
					GL ⁷ Clear Glass Lens	EMRM 7W Remote EM	
					SO ⁸ Micro Prism Solite™ Lens	EMEN 7W Remote with Enclosure	

EXAMPLE: C0412XT20L35KWDEX/SO/HM72/MW

NOTES:

1 Nominal Source Lumens at Any CCT 2 Nominal Delivered Lumens at 83 CRI at Any CCT with MD-BB-NL-MW 3 At 83 CRI 4 Contact Factory for Additional Options 5 Available 30L 80CRI and Below 6 See Product Options Page for Details 7 Standard Lens for ND 8 Standard Lens for MD, WD, XW 9 See Mounting Page for Details on Components and Finishes 10 Specify Length in Inches; See Mounting Page for Available Lengths 11 EMxxx Option Requires 2 Cords 12 See Color Page for More Options/Consult Factory for Special Finishes 13 Standard Finishes



PROJECT: _____
TYPE: _____



4" ROUND DIRECT

PRO-FORM SERIES / FIXTURE OPTIONS



STANDARD FINISHES

MW
MATTE WHITE



MB
MATTE BLACK

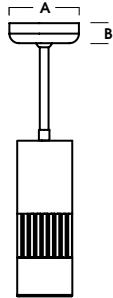


PT
PLATINUM SILVER



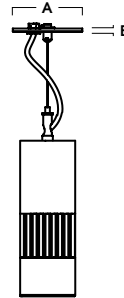
MOUNTING TYPES

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



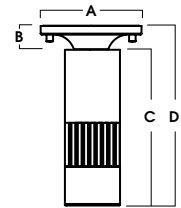
A	B
5.0	1.5
127.0 mm	38.1 mm

CD
CORD / CABLE MOUNT



A	B
5.0	.25
127.0 mm	6.4 mm

SM
SURFACE MOUNT

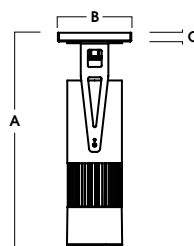


A	B	C	D
5.5	1.4	11.24	12.64
139.7 mm	35.56 mm	285.5 mm	321.1 mm

YK
YOKE MOUNT

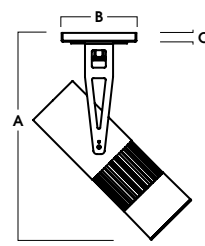


0° POSITION



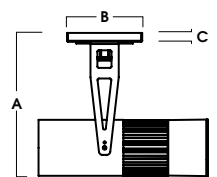
A	B	C
15.4	5.3	.63
391.2 mm	134.6 mm	16.0 mm

45° POSITION



A	B	C
14.7	5.3	.63
372.4 mm	134.6 mm	16.0 mm

90° TILT



A	B	C
10.1	5.3	.63
256.5 mm	134.6 mm	16.0 mm

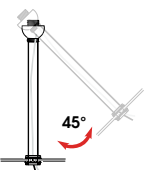
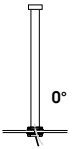
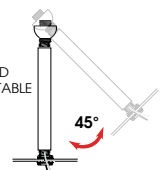
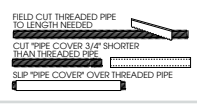

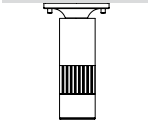
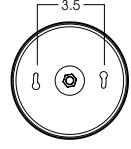
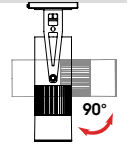
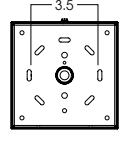


STANDARD MOUNTING & ACCESSORIES

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.



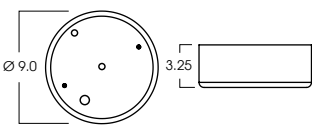
MOUNTING TYPES

<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>FIELD CUTTABLE</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>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>	<p>YK YOKE MOUNT</p>  <p>ORDER: YK TOP VIEW CANOPY 3.5</p>  <p>KEY SLOTS MOUNT CANOPY TO WALL JUNCTION BOX. JUNCTION BOX IS COVERED.</p>
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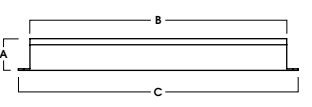
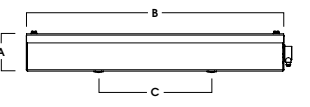
*MAXIMUM ONE PIECE STEM LENGTH IS 72". **MAXIMUM ONE PIECE STEM LENGTH IS 36". LONGER LENGTHS ARE POSSIBLE USING MULTIPLE STEMS AND COUPLERS.

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" ROUND DIRECT

PRO-FORM SERIES / PHOTOMETRIC DATA



C0412XT-40L-xxK-ND-EX-BB-xx-MW

CANDLEPOWER CURVE TEST SP-00567	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° 1,760 45%	8'	357 fc	2.5'	172 fc	18'	4'	114	1.11	108	1.12
	0° 22,833	0° - 20° 3,030 77%	10'	228 fc	3.2'	110 fc	21'	5'	105	1.03	73	0.76
	5° 18,484	0° - 30° 3,727 94%	12'	159 fc	3.8'	76 fc	24'	6'	76	0.74	83	0.86
	15° 4,279	0° - 40° 3,931 100%	14'	116 fc	4.4'	56 fc	Delivered Illuminance Rating: (DIR)					
	25° 1,534	0° - 60° 3,942 100%	16'	89 fc	5.1'	43 fc						103 FC per W/Sq. Ft.
	35° 261	0° - 80° 3,947 100%	20'	57 fc	6.3'	28 fc	1.5' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 4: Length & Width = Ceiling Ht. - 4.0' x 2.50 RCR 6: Length & Width = Ceiling Ht. - 4.0' x 1.66 * Average Footcandles at 2.5' Above Floor					
	45° 5	Downlight 3,948 100%	24'	40 fc	7.6'	19 fc						
	55° 7	Total 3,948 100%	28'	29 fc	8.9'	14 fc						
	90° 2											

Delivered Lumens: 3,948
Luminaire Watts: 37.9
LER: 104.17

CP at 0° (Nadir): 22,833
CRI: 83

Beam Angle: 18°
Spacing Ratio: 0.31

Lumen Multiplier: 10L x 0.25, 13L x 0.34, 20L x 0.52, 30L x 0.78
CCT Multiplier: Same for all available CCTs

C0412XT-40L-xxK-MD-EX-BB-xx-MW

CANDLEPOWER CURVE TEST SP-00567_4	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° 1,167 31%	8'	192 fc	3.8'	89 fc	15'	4'	109	1.12	70	0.77
	0° 12,317	0° - 20° 2,586 70%	10'	123 fc	4.7'	57 fc	18'	5'	90	0.92	75	0.83
	5° 11,404	0° - 30° 3,458 93%	12'	86 fc	5.7'	39 fc	21'	6'	79	0.80	79	0.87
	15° 5,089	0° - 40° 3,678 99%	14'	63 fc	6.6'	29 fc	Delivered Illuminance Rating: (DIR)					
	25° 1,904	0° - 60° 3,701 100%	16'	48 fc	7.6'	22 fc						98 FC per W/Sq. Ft.
	35° 236	0° - 80° 3,709 100%	20'	31 fc	9.5'	14 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° 10	Downlight 3,711 100%	24'	21 fc	11.4'	10 fc						
	55° 11	Total 3,711 100%	28'	16 fc	13.3'	7 fc						
	90° 2											

Delivered Lumens: 3,711
Luminaire Watts: 37.9
LER: 97.92

CP at 0° (Nadir): 12,317
CRI: 83

Beam Angle: 27°
Spacing Ratio: 0.44

Lumen Multiplier: 10L x 0.25, 13L x 0.34, 20L x 0.52, 30L x 0.78
CCT Multiplier: Same for all available CCTs

C0412XT-40L-xxK-WD-EX-BB-xx-MW

CANDLEPOWER CURVE TEST SP-00567_8	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° 886 24%	8'	131 fc	5.4'	56 fc	15'	6'	75	0.78	68	0.77
	0° 8,408	0° - 20° 2,345 63%	10'	84 fc	6.7'	36 fc	18'	8'	45	0.47	41	0.47
	5° 8,140	0° - 30° 3,404 92%	12'	58 fc	8.1'	25 fc	21'	10'	30	0.31	28	0.31
	15° 5,497	0° - 40° 3,674 99%	14'	43 fc	9.4'	18 fc	Delivered Illuminance Rating: (DIR)					
	25° 2,377	0° - 60° 3,693 100%	16'	33 fc	10.8'	14 fc						97 FC per W/Sq. Ft.
	35° 321	0° - 80° 3,699 100%	20'	21 fc	13.5'	9 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° 16	Downlight 3,700 100%	24'	15 fc	16.2'	6 fc						
	55° 5	Total 3,700 100%	28'	11 fc	18.9'	5 fc						
	90° 1											

Delivered Lumens: 3,700
Luminaire Watts: 37.9
LER: 97.63

CP at 0° (Nadir): 8,408
CRI: 83

Beam Angle: 37°
Spacing Ratio: 0.60

Lumen Multiplier: 10L x 0.25, 13L x 0.34, 20L x 0.52, 30L x 0.78
CCT Multiplier: Same for all available CCTs



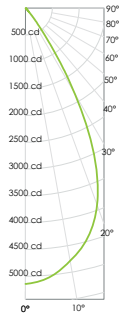
4" ROUND DIRECT

PRO-FORM SERIES / PHOTOMETRIC DATA



C0412XT-40L-xxK-XW-EX-BB-xx-MW

CANDLEPOWER CURVE TEST SP-00567_12	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	
								FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	
	0°	0° - 10° 567 15%	8'	80 fc	8.1'	28 fc	12'	6'	69	0.67	88	0.97
	0°	0° - 20° 1,796 48%	10'	51 fc	10.2'	18 fc	15'	8'	50	0.50	45	0.50
	5°	0° - 30° 3,156 84%	12'	36 fc	12.2'	13 fc	18'	10'	31	0.30	27	0.30
	15°	0° - 40° 3,695 98%	14'	26 fc	14.2'	9 fc	Delivered Illuminance Rating: (DIR)					
	25°	0° - 60° 3,769 100%	16'	20 fc	16.3'	7 fc						102 FC per W/Sq. Ft.
	35°	0° - 80° 3,776 100%	20'	13 fc	20.3'	5 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°	Downlight 3,777 100%	24'	9 fc	24.4'	3 fc						
	55°	Total 3,777 100%	28'	7 fc	28.4'	2 fc						
	90°	2										



Delivered Lumens: 3,777
Luminaire Watts: 37.9
LER: 99.66

CP at 0° (Nadir): 5,145
CRI: 83

Beam Angle: 54°
Spacing Ratio: 0.86

Lumen Multiplier: 10L x 0.25, 13L x 0.34, 20L x 0.52, 30L x 0.78
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

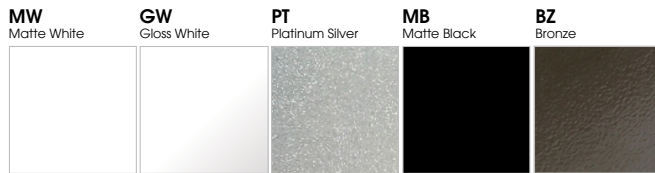
FIXTURE COLOR	STANDARD CORD COLOR	STANDARD CANOPY / STEM COLOR
Matte White, Textured White	Matte White	Matte White
Gloss White	Matte White	Gloss White
Matte Black, Textured Black	Matte Black	Matte Black
All Others	Matte Black	Same Color as Fixture
Custom Color	Contact Factory	Contact Factory

PAINT TIMES

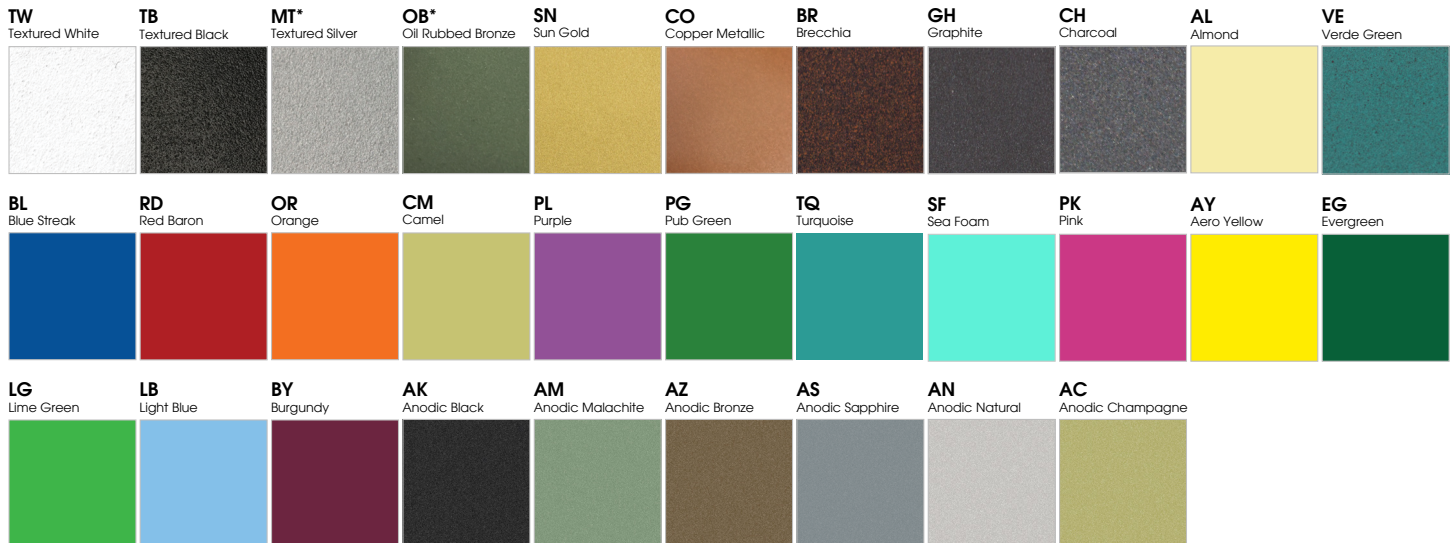
TIER	COST	AVERAGE PAINT TIME*
Tier 1 - Standard Finishes	\$	⌚
Tier 2 - Typical Finishes	\$\$	⌚⌚
Custom Color	Contact Factory	Contact Factory

*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

