

4" SQUARE DIRECT

FOCUSED ILLUMINATION



CO412SQXT - 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 pre-treated to resist corrosion. Cylinder housing and trim are same finish.

ELECTRONICS

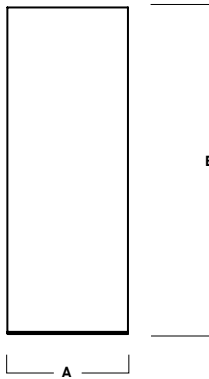
LED system features Xicato LED module with proprietary phosphor technology that provides consistent stable color with CCT control of +/- 100K over life of the light engine. Base CRI is 83 with 2-step MacAdam Ellipse binning. High CRI is 98 with 1 x 2-step MacAdam Ellipse binning. Variety of electronic 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
CO412SQXT7L	720	438	5.6	78
CO412SQXT10L	965	584	8.3	70
CO412SQXT13L	1300	790	11.9	66
CO412SQXT20L	2000	1216	19	64

SERIES	LUMENS ¹	CCT	OPTICS	DRIVER / VOLTAGE ⁴	OPTIONS ⁷	MOUNTING ¹⁰	FINISH ¹³
CO412SQXT	7L 1000 Lm	83 CRI	XN ³ 14°	EX Electronic Driver, 120V/277V	FS Fuse Holder and Fuse CR Corrosion Resistant	HM ¹¹ Hang Straight PM ¹¹ Rigid Pendant Mount AT ¹¹ Hang Straight All Thread CD ^{11/12} Cord / Cable Mount CM ^{11/12} Cord Mount SM Surface Mount CQD ⁶ DMX Large Driver Canopy	MW ¹⁴ Matte White MB ¹⁴ Matte Black PT ¹⁴ Platinum Silver CC Custom Color
	13L 1300 Lm	30K 3000K	MD 38°	DO10X 1%, 0-10V, 120V/277V	NL No Lens GL ⁸ Clear Glass Lens SO ⁹ Micro Prism Solite™ Lens	EMERGENCY BATTERY OPTIONS EMCR 10W Canopy Mounted EM EMRM 7W Remote EM EMEN 7W Remote with Enclosure	
	20L 2000 Lm	40K 4000K	XW 54°	DMXS ^{5/6} DMX Standard Configuration DMXC ^{5/6} DMX Non-Standard Custom			
			98 CRI				
			27HK 2700K				
			30HK 3000K				
			35HK 3500K				
		40HK 4000K					

EXAMPLE: CO412SQXT20L35KXWEX/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 EMxxxx Option Requires 2 Cords 13 Reference Color Sheet Located on Product Webpage for Full List of Available Colors 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

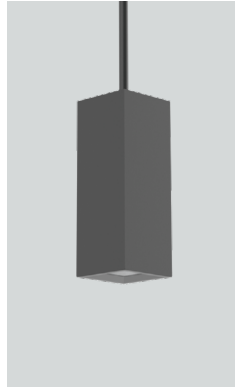


STANDARD FINISHES

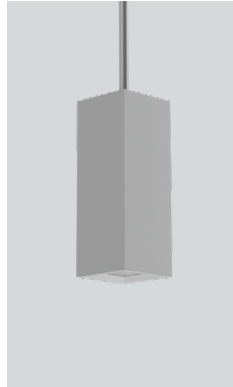
MW
MATTE WHITE



MB
MATTE BLACK

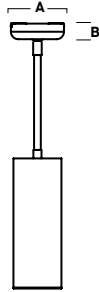
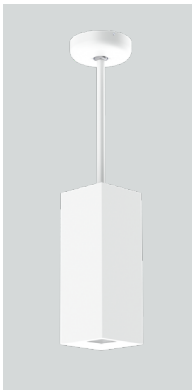


PT
PLATINUM SILVER



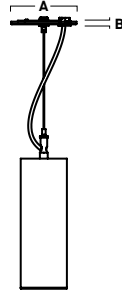
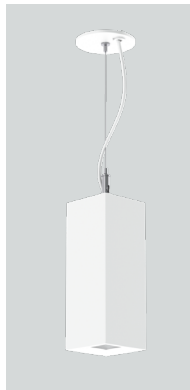
MOUNTING TYPES

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



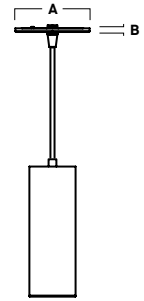
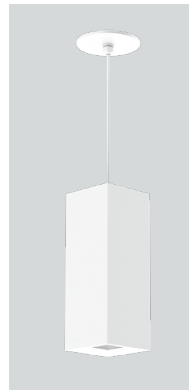
A	B
5.0	1.5
127.0 mm	38.1 mm

CD
CORD / CABLE MOUNT



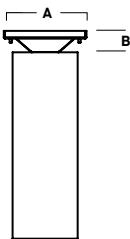
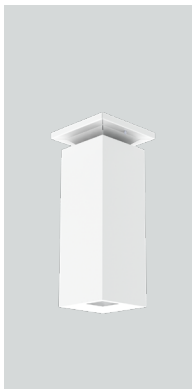
A	B
5.0	.25
127.0 mm	6.4 mm

CM
CORD MOUNT



A	B
5.0	.25
127.0 mm	6.4 mm

SM
SURFACE MOUNT



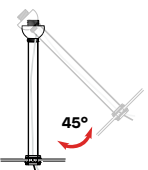
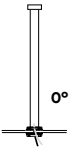
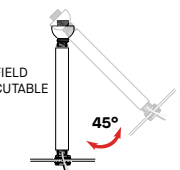
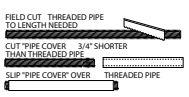
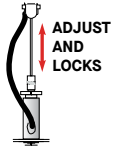

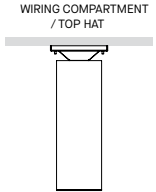
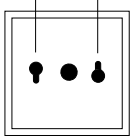
A	B
5.8	1.4
147.3 mm	35.6 mm

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.



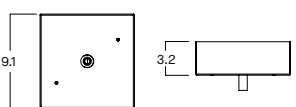
MOUNTING TYPES

<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>FIELD CUT THREADED PIPE TO LENGTH NEEDED CUT PIPE COVER .3/4" SHORTER THAN THREADED PIPE SLIP PIPE COVER OVER THREADED PIPE</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.

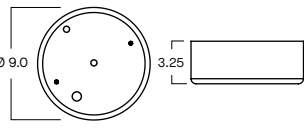
DMX OPTION

CGD - LARGE DRIVER CANOPY FOR DMX OPTIONS

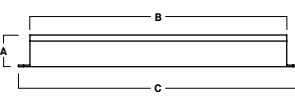
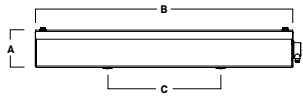


EMERGENCY BATTERY OPTIONS

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