



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

PROJECT: \_\_\_\_\_  
 QUANTITY: \_\_\_\_\_ TYPE: \_\_\_\_\_



CW0406PC



CW0412PC



CW0418PC

SERIES	LUMENS <sup>1</sup>	CCT	OPTICS	DRIVER / DIMMING <sup>2</sup>	LENS	MOUNTING <sup>3</sup>	FINISH <sup>4</sup>
CW0406PC	10L	550 Lm	80 CRI	EX Electronic Driver, 120V/277V 1%, 0-10V, 120V/277V	CL Clear Glass Lens SO Micro Prism Solite™ Lens	WM Wall Mount	MW <sup>5</sup> Matte White MB <sup>5</sup> Matte Black PT <sup>5</sup> Platinum Silver CC Custom Color
	15L	800 Lm	27K 2700K				
CW0412PC 4" x 12"	20L	1100 Lm	30K 3000K	DO10X DS2W1 ELV/MLV, 120V			
			35K 3500K				
			40K 4000K				
CW0418PC 4" x 18"			90 CRI				
			27HK 2700K				
			30HK 3000K				
			35HK 3500K				
			40HK 4000K				
						EMER. BAT. OPTIONS	
						EMRM 7W Remote EM	
						EMEN 7W Remote EM with Enclosure	

EXAMPLE: CW0406PC15L35KNDEX/CL/WM/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 Reference Color Sheet Located on Product Webpage for Full List of Available Colors 5 Standard Finishes



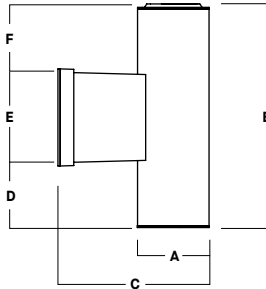


# 4" ROUND DIRECT WET LOCATION GAMMA SERIES

LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS	SYSTEM WATTS	LPW
CW0412PC 10L	549	6.5	84
CW0412PC 15L	813	9.5	86
CW0412PC 20L	1098	12.9	85

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

## DIMENSIONS



Dimensioned with **CW0412PC**

SERIES	A	B	C	D	E	F
<b>CW0406PC</b>	4.1	6.4	8.4	0.4	5.4	0.6
<b>CW0412PC</b>	4.1	12.4	8.4	3.4	5.4	3.6
<b>CW0418PC</b>	4.1	18.4	8.4	6.4	5.4	6.6

## APPLICATION

The Gamma Family of Cylinders are a robust offering of point source LED luminaires featuring high efficacies, 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, 3500K, 4000K in CRI 90 (Typ.), color accuracy  $\leq 3$  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 7W for 90 minutes.

## CONSTRUCTION

Seamless cylinder body machined from 6063 extruded aluminum. Trim and top cap are die-cast aluminum. Self-locating trim is secured with self-sealing stainless steel hardware. Nitrile rubber o-rings provide additional ingress protection from water. Passive aluminum heatsink optimized for emitter life and performance. Specular reflectors offered in variety of beam spreads. Lens type must be specified.

## MOUNTING

Mounting bracket for direct installation with 4" octagonal junction boxes. Single-piece, seamless die-cast aluminum wall arm. 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 #). Wall arm will match cylinder finish specification.

## CODE COMPLIANCE

ETL Listed. Suitable for wet 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

**CW0406PC**



**CW0412PC**



**CW0418PC**



## STANDARD FINISHES

SHOWN WITH CW0412PC

**MW**  
Matte White



**MB**  
Matte Black

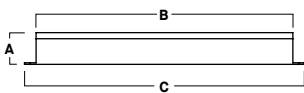


**PT**  
Platinum Silver



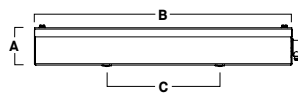
## EMERGENCY BATTERY OPTIONS

**EMRM\*** - 7W REMOTE EMERGENCY BATTERY  
(50" MAX)



A	B	C
1.3	12.6	13.0

**EMEN\*** - 7W REMOTE EMERGENCY BATTERY  
WITH ENCLOSURE (50" MAX)



A	B	C
2.0	17.0	6.2

\*OTHER EM BATTERY SIZES AVAILABLE. CONSULT FACTORY





# 4" ROUND DIRECT

## GAMMA SERIES / PHOTOMETRIC DATA

### CW04XXPC 20L 35K ND XX CL XX

CANDLEPOWER CURVE TEST SP-01050	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° 381 34%	Mounting Height AFF	Ceiling Height
	0° 5349	0° - 20° 798 71%	FC at Center on Floor	Fixture Spacing
	5° 4698	0° - 30° 1049 93%	Beam Diameter	RCR 4
	15° 1392	0° - 40° 1113 99%	FC at Beam Edge	FC * W/Sq. Ft.
	25° 582	0° - 60° 1122 99%	8' 84 fc 3.0' 40 fc	FC * W/Sq. Ft.
	35° 74	0° - 80° 1126 100%	10' 53 fc 3.7' 25 fc	14' 3' 123 1.46 101 1.30
	45° 5	0° - 90° 1128 100%	12' 37 fc 4.5' 18 fc	18' 4' 61 0.72 72 0.92
	55° 5	Total 1128 100%	14' 27 fc 5.2' 13 fc	22' 5' 46 0.55 43 0.55
	90° 1		16' 21 fc 5.9' 10 fc	Delivered Illuminance Rating: (DIR)
			20' 13 fc 7.4' 6 fc	84 FC per W/Sq. Ft. 78 FC per W/Sq. Ft.
			24' 9 fc 8.9' 4 fc	2' Suspension Length to luminous aperture
		28' 7 fc 10.4' 3 fc	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: 1128  
Luminaire Watts: 12.9  
LER: 87.44

CP at 0° (Nadir): 5349  
CRI: 80

Beam Angle: 21°  
Spacing Ratio: 0.35

Lumen Multiplier: 10L x 0.50, 15L x 0.74  
CCT Multiplier: 27K x 0.97, 30K x 0.98, 40K x 1.04  
27HK x 0.78, 30HK x 0.82

### CW04XXPC 20L 35K MD XX CL XX

CANDLEPOWER CURVE TEST SP-01047	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° 299 27%	Mounting Height AFF	Ceiling Height
	0° 3785	0° - 20° 744 68%	FC at Center on Floor	Fixture Spacing
	5° 3416	0° - 30° 1017 93%	Beam Diameter	RCR 3
	15° 1614	0° - 40° 1084 99%	FC at Beam Edge	FC * W/Sq. Ft.
	25° 611	0° - 60° 1093 100%	8' 59 fc 3.9' 27 fc	FC * W/Sq. Ft.
	35° 91	0° - 80° 1097 100%	10' 38 fc 4.8' 17 fc	14' 4' 70 0.82 70 0.89
	45° 6	0° - 90° 1098 100%	12' 26 fc 5.8' 12 fc	18' 6' 27 0.31 22 0.28
	55° 3	Total 1098 100%	14' 19 fc 6.7' 9 fc	22' 8''' 16 0.19 13 0.17
	90° 1		16' 15 fc 7.7' 7 fc	Delivered Illuminance Rating: (DIR)
			20' 9 fc 9.6' 4 fc	85 FC per W/Sq. Ft. 78 FC per W/Sq. Ft.
			24' 7 fc 11.6' 3 fc	2' Suspension Length to luminous aperture
		28' 5 fc 13.5' 2 fc	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 2%	

Delivered Lumens: 1098  
Luminaire Watts: 12.9  
LER: 85.12

CP at 0° (Nadir): 3785  
CRI: 80

Beam Angle: 27°  
Spacing Ratio: 0.45

Lumen Multiplier: 10L x 0.50, 15L x 0.74  
CCT Multiplier: 27K x 0.97, 30K x 0.98, 40K x 1.04  
27HK x 0.78, 30HK x 0.82

### CW04XXPC 20L 35K WD XX CL XX

CANDLEPOWER CURVE TEST SP-01072	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° 190 16%	Mounting Height AFF	Ceiling Height
	0° 2017	0° - 20° 643 53%	FC at Center on Floor	Fixture Spacing
	5° 2015	0° - 30° 1071 89%	Beam Diameter	RCR 2
	15° 1633	0° - 40° 1190 99%	FC at Beam Edge	FC * W/Sq. Ft.
	25° 963	0° - 60° 1198 100%	8' 32 fc 7.3' 12 fc	FC * W/Sq. Ft.
	35° 144	0° - 80° 1202 100%	10' 20 fc 9.1' 8 fc	14' 6' 35 0.37 32 0.37
	45° 5	0° - 90° 1203 100%	12' 14 fc 10.9' 5 fc	18' 8' 17 0.18 16 0.18
	55° 2	Total 1203 100%	14' 10 fc 12.7' 4 fc	22' 10' 13 0.14 9 0.11
	90° 1		16' 8 fc 14.6' 3 fc	Delivered Illuminance Rating: (DIR)
			20' 5 fc 18.2' 2 fc	96 FC per W/Sq. Ft. 86 FC per W/Sq. Ft.
			24' 4 fc 21.8' 1 fc	2' Suspension Length to luminous aperture
		28' 3 fc 25.5' 1 fc	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: 1203  
Luminaire Watts: 12.9  
LER: 93.26

CP at 0° (Nadir): 2017  
CRI: 80

Beam Angle: 49°  
Spacing Ratio: 0.77

Lumen Multiplier: 10L x 0.50, 15L x 0.74  
CCT Multiplier: 27K x 0.97, 30K x 0.98, 40K x 1.04  
27HK x 0.78, 30HK x 0.82





# 4" ROUND DIRECT

## GAMMA SERIES / PHOTOMETRIC DATA

CW04XXPC 20L 35K XW XX CL XX

CANDLEPOWER CURVE TEST SP-01074	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° 147 0° - 20° 556 0° - 30° 1039 0° - 40° 1208 0° - 60° 1222 0° - 80° 1226 0° - 90° 1227	12% 45% 85% 98% 100% 100% 100%	Mounting Height AFF	FC at Center on Floor	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 1		RCR 3	
	5°	1544		8'	24 fc	8.7'	8 fc	14'	8'	21	0.21	19	0.21
	15°	1473		10'	15 fc	10.9'	5 fc	18'	10'	12	0.12	9	0.10
	25°	1117		12'	11 fc	13.1'	4 fc	22'	12'	9	0.08	9	0.09
	35°	232		14'	8 fc	15.3'	3 fc	Delivered Illuminance Rating: (DIR)		103 FC per W/Sq. Ft.		92 FC per W/Sq. Ft.	
	45°	8		16'	6 fc	17.5'	2 fc	2' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 1: Length & Width = Ceiling Ht. - 4.5' x 10.00 RCR 3: Length & Width = Ceiling Ht. - 4.5' x 3.33 * Average Footcandles at 2.5' Above Floor					
	55°	3		20'	4 fc	21.9'	1 fc						
	90°	1	Total	28'	2 fc	30.6'	1 fc						

Delivered Lumens: 1227  
Luminaire Watts: 12.9  
LER: 95.12

CP at 0° (Nadir): 1547  
CRI: 80

Beam Angle: 58°  
Spacing Ratio: 0.95

Lumen Multiplier: 10L x 0.50, 15L x 0.74  
CCT Multiplier: 27K x 0.97, 30K x 0.98, 40K x 1.04  
27HK x 0.78, 30HK x 0.82

