



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

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



CW0412UDPC



CW0418UDPC

SERIES	LUMENS <sup>1/2</sup>		CCT	OPTICS <sup>3</sup>				DRIVER / DIMMING <sup>4</sup>		LENS <sup>5</sup>		MOUNTING <sup>6</sup>		FINISH <sup>7</sup>	
CW0412UDPC 4" x 12"	10L	1200 Lm	80 CRI	UPLIGHT		DOWNLIGHT		EX Electronic Driver, 120V/277V 1%, 0-10V, 120V/277V	CL Clear Lens	SO Micro Prism Solite™ Lens	WM Wall Mount	MW <sup>8</sup> Matte White PT <sup>8</sup> Platinum Silver CC Custom Color	EMER EMEN	7W Remote EM 7W Remote EM with Enclosure	See Page 5 for Full Range of Color Options (83-90165)
	15L	1800 Lm		27K	2700K	ND	21°								
CW0418UDPC 4" x 18"	20L	2400 Lm	90 CRI	30K	3000K	MD	27°	MD	27°	DS2W1 ELV/MLV, 120V					
				35K	3500K	WD	49°	WD	49°						
				40K	4000K	XW	58°	XW	58°						
				27HK	2700K										
				30HK	3000K										
35HK	3500K														
			40HK	4000K											

EXAMPLE: CW0412UDPC15L35KNDMDEX/CL/WM/MW

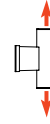
**NOTES:**  
 1 Nominal Delivered Combined Uplight/Downlight Lumens at 3500K 2 Uplight & Downlight Use The Same Lumen Output 3 See IES Files for Details 4 Consult Factory for Additional Options  
 5 Uplight & Downlight Use The Same Lens 6 See Mounting Page for Details on Components and Finishes 7 See Color Page for More Options/Consult Factory for Special Finishes 8 Standard Finishes





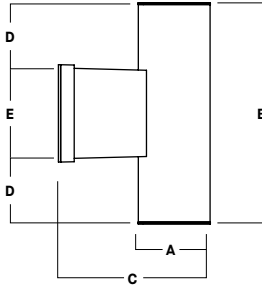
# 4" ROUND DIRECT / INDIRECT WET LOCATION GAMMA SERIES

LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS <sup>1</sup>	SYSTEM WATTS	LPW
CWO418UDPC 10L	1211	12.9	94
CWO418UDPC 15L	1792	19	94
CWO418UDPC 20L	2422	25.8	94



<sup>1</sup> Nominal Delivered Combined Uplight/Downlight Lumens at 3500K, 80 CRI, Wide Optic with Clear Lens

## DIMENSIONS



Dimensioned with **CWO412UDPC**

SERIES	A	B	C	D	E
CWO412UDPC	4.1	12.2	8.4	3.4	5.4
CWO418UDPC	4.1	18.2	8.4	6.4	5.4

## 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. Direct and Indirect output and CCT will match.

## CONSTRUCTION

Seamless cylinder body machined from 6063 extruded aluminum. Trims are die-cast aluminum. Trims self locate into machined body and are secured with self-sealing stainless steel hardware. Nitrile rubber o-rings provide additional ingress protection from water. Passive aluminum heatsink optimized for LED 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

**CWO412UDPC**



**CWO418UDPC**



## STANDARD FINISHES SHOWN WITH CWO412UDPC

**MW**  
Matte White



**MB**  
Matte Black



**PT**  
Platinum Silver



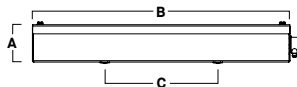
## EMERGENCY BATTERY OPTIONS

**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 / INDIRECT

## GAMMA SERIES / PHOTOMETRIC DATA

CW04XXUDPC 20LNDCL 20LNDCL 35KXX XXMW (IND/DIR Wet location)

CANDLEPOWER CURVE TEST SP-01087	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	Ceiling Height	Fixture Spacing	RCR 4		RCR 6		
	0°	0° - 10° 393 18%	10'	53 fc	18'	4'	108	1.69	84	1.50	
	0°	0° - 30° 1063 47%	12'	37 fc	22'	5'	62	0.97	48	0.86	
	20°	0° - 60° 1137 51%	14'	27 fc	26'	6'	40	0.63	45	0.80	
	40°	90° - 120° 6 0%	16'	21 fc	Delivered Illuminance Rating: (DIR)						
	60°	90° - 150° 77 3%	20'	13 fc	64 FC per W/Sq. Ft. 56 FC per W/Sq. Ft.						
	80°	0° - 90° 1130 50%	24'	9 fc	3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 4: Length & Width = Ceiling Ht. - 5.5' x 2.50 RCR 6: Length & Width = Ceiling Ht. - 5.5' x 1.66 * Average Footcandles at 2.5' Above Floor						
	90°	90° - 180° 1132 51%	28'	7 fc							
	100°	180° 5348	32'	5 fc							
	120°	Total 2238 100%									
	140°	10									
	160°	808									
	180°	5348									

Delivered Lumens: 2284  
Luminaire Watts: 25.8  
LER: 88.53

CP at 0° (Nadir): 5349  
CRI: 80

Beam Angle: 339°  
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

CW04XXUDPC 20LMDCL 20LMDCL 35KXX XXMW (IND/DIR Wet location)

CANDLEPOWER CURVE TEST SP-01086	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	Ceiling Height	Fixture Spacing	RCR 3		RCR 5		
	0°	0° - 10° 309 14%	8'	59 fc	18'	5'	63	0.95	59	1.03	
	0°	0° - 30° 1029 47%	10'	38 fc	22'	7'	36	0.55	34	0.59	
	20°	0° - 60° 1105 50%	12'	26 fc	26'	9'	23	0.35	22	0.38	
	40°	90° - 120° 5 0%	14'	19 fc	Delivered Illuminance Rating: (DIR)						
	60°	90° - 150° 83 4%	16'	15 fc	66 FC per W/Sq. Ft. 58 FC per W/Sq. Ft.						
	80°	0° - 90° 1104 50%	20'	9 fc	3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 RCR 5: Length & Width = Ceiling Ht. - 5.5' x 2.00 * Average Footcandles at 2.5' Above Floor						
	90°	90° - 180° 1108 50%	24'	7 fc							
	100°	180° 3785	28'	5 fc							
	120°	Total 2202 100%									
	140°	12									
	160°	947									
	180°	3784									

Delivered Lumens: 2224  
Luminaire Watts: 25.8  
LER: 86.20

CP at 0° (Nadir): 3785  
CRI: 80

Beam Angle: 333°  
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

CW04XXUDPC 20LWDCL 20LWDCL 35KXX XXMW (IND/DIR Wet location)

CANDLEPOWER CURVE TEST SP-01088	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	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		
	0°	0° - 10° 197 8%	8'	32 fc	18'	8'	33	0.42	28	0.42	
	0°	0° - 30° 1077 45%	10'	20 fc	22'	10'	19	0.24	16	0.24	
	20°	0° - 60° 1199 50%	12'	14 fc	26'	12'	12	0.16	10	0.16	
	40°	90° - 120° 5 0%	14'	10 fc	Delivered Illuminance Rating: (DIR)						
	60°	90° - 150° 136 6%	16'	8 fc	77 FC per W/Sq. Ft. 66 FC per W/Sq. Ft.						
	80°	0° - 90° 1198 50%	20'	5 fc	3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 2: Length & Width = Ceiling Ht. - 5.5' x 5.00 RCR 4: Length & Width = Ceiling Ht. - 5.5' x 2.50 * Average Footcandles at 2.5' Above Floor						
	90°	90° - 180° 1212 51%	24'	4 fc							
	100°	180° 2017	28'	3 fc							
	120°	Total 2398 100%									
	140°	24									
	160°	1340									
	180°	2017									

Delivered Lumens: 2422  
Luminaire Watts: 25.8  
LER: 93.88

CP at 0° (Nadir): 2017  
CRI: 80

Beam Angle: 311°  
Spacing Ratio: 0.77

Lumen Multiplier: 10L x 0.5, 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 / INDIRECT

## GAMMA SERIES / PHOTOMETRIC DATA

CW04XXUDPC 20LXWCL 20LXWCL 35KXX XXMW (IND/DIR Wet location)

CANDLEPOWER CURVE TEST SP-01 089	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°	Mounting Height AFF	FC at Center on Floor	<table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 1</th> <th colspan="2">RCR 3</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>18'</td> <td>10'</td> <td>20</td> <td>0.24</td> <td>17</td> <td>0.24</td> </tr> <tr> <td>22'</td> <td>12'</td> <td>16</td> <td>0.19</td> <td>10</td> <td>0.14</td> </tr> <tr> <td>26'</td> <td>14'</td> <td>10</td> <td>0.12</td> <td>10</td> <td>0.14</td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 1		RCR 3		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	18'	10'	20	0.24	17	0.24	22'	12'	16	0.19	10	0.14	26'	14'	10	0.12	10	0.14
	Ceiling Height	Fixture Spacing	RCR 1					RCR 3																									
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	22'	12'	16	0.19	10	0.14																											
	26'	14'	10	0.12	10	0.14																											
	0°	0° - 30°	8'	24 fc	<table border="1"> <tbody> <tr> <td>Delivered Illuminance Rating: (DIR)</td> <td colspan="2">85 FC per W/Sq. Ft.</td> <td colspan="2">72 FC per W/Sq. Ft.</td> </tr> </tbody> </table>	Delivered Illuminance Rating: (DIR)	85 FC per W/Sq. Ft.		72 FC per W/Sq. Ft.																								
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	20°	0° - 60°	10'	15 fc	3' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 1: Length & Width = Ceiling Ht. - 5.5' x 10.00 RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33 * Average Footcandles at 2.5' Above Floor																												
	40°	90° - 120°	12'	11 fc																													
	60°	90° - 150°	14'	8 fc																													
	80°	0° - 90°	16'	6 fc																													
90°	90° - 180°	20'	4 fc																														
100°	0° - 180°	24'	3 fc																														
120°	Total	28'	2 fc																														
140°																																	
160°																																	
180°																																	

Delivered Lumens: 2463  
 Luminaire Watts: 25.8  
 LER: 95.47

CP at 0° (Nadir): 1547  
 CR: 80

Beam Angle: 303°  
 Spacing Ratio: 0.95

Lumen Multiplier: 10L x 0.5, 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

