



**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<br>4" x 12" | 10L                   | 1200 Lm | 80 CRI | UPLIGHT             |       | DOWNLIGHT |     | EX<br>Electronic Driver, 120V/277V<br>1%, 0-10V, 120V/277V | CL<br>Clear Lens | SO<br>Micro Prism<br>Solite™ Lens | WM<br>Wall Mount | MW <sup>8</sup><br>Matte White | MB <sup>8</sup><br>Matte Black | PT <sup>8</sup><br>Platinum Silver | CC<br>Custom Color |    |     |                    |                                |  |  |
|                        | 15L                   | 1800 Lm |        | 27K                 | 27°   | ND        | 21° |  |                  |                                   |                  |                                |                                |                                    |                    | ND | 21° |                    |                                |  |  |
| CW0418UDPC<br>4" x 18" | 20L                   | 2400 Lm | 80 CRI | 30K                 | 3000K | MD        | 27° | MD   | 27°              | DS2W1<br>ELV/MLV, 120V            |                  |                                |                                |                                    |                    |    |     |                    |                                |  |  |
|                        |                       |         |        | 35K                 | 3500K | WD        | 49° | WD   | 49°              |                                   |                  |                                |                                |                                    |                    |    |     |                    |                                |  |  |
|                        |                       |         |        | 40K                 | 4000K | XW        | 58° | XW   | 58°              |                                   |                  |                                |                                |                                    |                    |    |     |                    |                                |  |  |
|                        |                       |         |        | 90 CRI              |       |           |     |  |                  |                                   |                  |                                |                                |                                    |                    |    |     | EMER. BAT. OPTIONS |                                |  |  |
|                        |                       |         |        | 27HK                | 2700K |           |     |  |                  |                                   |                  |                                |                                |                                    |                    |    |     | EMRM               | 7W Remote EM                   |  |  |
|                        |                       |         |        | 30HK                | 3000K |           |     |  |                  |                                   |                  |                                |                                |                                    |                    |    |     | EMEN               | 7W Remote EM<br>with Enclosure |  |  |
|                        |                       |         |        | 35HK                | 3500K |           |     |  |                  |                                   |                  |                                |                                |                                    |                    |    |     |                    |                                |  |  |
|                        |                       |         |        | 40HK                | 4000K |           |     |  |                  |                                   |                  |                                |                                |                                    |                    |    |     |                    |                                |  |  |

EXAMPLE: CW0412UDPC15L35KNDMDEX/CL/WM/MW

**NOTES:**

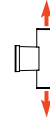
1 Nominal Delivered Combined Uplight/Downlight Lumens at 3500K 2 Uplight & Downlight Use The Same Lumen Output 3 See IES Files for Details 4 Consult Factory for Additional Options  
 5 Uplight & Downlight Use The Same Lens 6 See Mounting Page for Details on Components and Finishes 7 Reference Color Sheet Located on Product Webpage for Full List of Available Colors 8 Standard Finishes





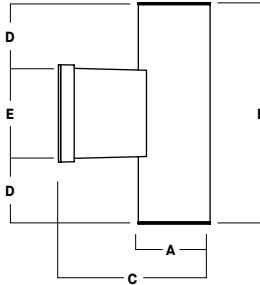
# 4" ROUND DIRECT / INDIRECT WET LOCATION GAMMA SERIES

| 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

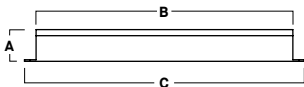


**PT**  
Platinum Silver



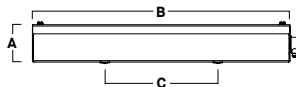
## EMERGENCY BATTERY OPTIONS

**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<br>TEST SP-01087 | INTENSITY<br>CANDELA<br>0° AZIMUTH | ZONAL LUMENS        | SINGLE UNIT: PERFORMANCE<br>DIRECT FOOTCANDLES<br>BASED ON DOWNLIGHT ONLY |                          | MULTIPLE UNITS: PERFORMANCE<br>80/50/20% REFLECTANCES<br>INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT  |                    |       |      |       |      |  |
|------------------------------------|------------------------------------|---------------------|---|--------------------------|---|--------------------|-------|------|-------|------|--|
|                                    |                                    |                     | Mounting Height<br>AFF  | FC at Center on<br>Floor | Ceiling<br>Height   | Fixture<br>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<br>Square rooms used for multiple units:<br>RCR 4: Length & Width = Ceiling Ht. - 5.5' x 2.50<br>RCR 6: Length & Width = Ceiling Ht. - 5.5' x 1.66<br>* 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<br>TEST SP-01086 | INTENSITY<br>CANDELA<br>0° AZIMUTH | ZONAL LUMENS        | SINGLE UNIT: PERFORMANCE<br>DIRECT FOOTCANDLES<br>BASED ON DOWNLIGHT ONLY |                          | MULTIPLE UNITS: PERFORMANCE<br>80/50/20% REFLECTANCES<br>INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT  |                    |       |      |       |      |  |
|------------------------------------|------------------------------------|---------------------|---|--------------------------|---|--------------------|-------|------|-------|------|--|
|                                    |                                    |                     | Mounting Height<br>AFF  | FC at Center on<br>Floor | Ceiling<br>Height   | Fixture<br>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<br>Square rooms used for multiple units:<br>RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33<br>RCR 5: Length & Width = Ceiling Ht. - 5.5' x 2.00<br>* 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<br>TEST SP-01088 | INTENSITY<br>CANDELA<br>0° AZIMUTH | ZONAL LUMENS        | SINGLE UNIT: PERFORMANCE<br>DIRECT FOOTCANDLES<br>BASED ON DOWNLIGHT ONLY |                          | MULTIPLE UNITS: PERFORMANCE<br>80/50/20% REFLECTANCES<br>INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT  |                    |       |      |       |      |  |
|------------------------------------|------------------------------------|---------------------|---|--------------------------|---|--------------------|-------|------|-------|------|--|
|                                    |                                    |                     | Mounting Height<br>AFF  | FC at Center on<br>Floor | Ceiling<br>Height   | Fixture<br>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<br>Square rooms used for multiple units:<br>RCR 2: Length & Width = Ceiling Ht. - 5.5' x 5.00<br>RCR 4: Length & Width = Ceiling Ht. - 5.5' x 2.50<br>* 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<br>TEST SP-01 089 | INTENSITY<br>CANDELA<br>0° AZIMUTH | ZONAL LUMENS       | SINGLE UNIT: PERFORMANCE<br>DIRECT FOOTCANDLES<br>BASED ON DOWNLIGHT ONLY | MULTIPLE UNITS: PERFORMANCE<br>80/50/20% REFLECTANCES<br>INITIAL FOOTCANDLES AND WATTS PER SQUARE FOOT |   |                   |                    |       |  |       |  |      |           |      |           |     |     |    |      |    |      |     |     |    |      |    |      |     |     |    |      |    |      |
|-------------------------------------|------------------------------------|--------------------|---|--|---|-------------------|--------------------|-------|--|-------|--|------|-----------|------|-----------|-----|-----|----|------|----|------|-----|-----|----|------|----|------|-----|-----|----|------|----|------|
|                                     | 0°                                 | 0° - 10°           | Mounting Height<br>AFF  | FC at Center on<br>Floor   | <table border="1"> <thead> <tr> <th rowspan="2">Ceiling<br/>Height</th> <th rowspan="2">Fixture<br/>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<br>Height | Fixture<br>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<br>Height                  | Fixture<br>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              |                    |       |  |       |  |      |           |      |           |     |     |    |      |    |      |     |     |    |      |    |      |     |     |    |      |    |      |
|                                     | 0°                                 | 0° - 30°           | 8'  | 24 fc  | Delivered<br>Illuminance<br>Rating: (DIR)<br><br>3' Suspension Length to luminous aperture<br>Square rooms used for multiple units:<br>RCR 1: Length & Width = Ceiling Ht. - 5.5' x 10.00<br>RCR 3: Length & Width = Ceiling Ht. - 5.5' x 3.33<br>* Average Footcandles at 2.5' Above Floor   |                   |                    |       |  |       |  |      |           |      |           |     |     |    |      |    |      |     |     |    |      |    |      |     |     |    |      |    |      |
|                                     | 20°                                | 0° - 60°           | 10'   | 15 fc  |   |                   |                    |       |  |       |  |      |           |      |           |     |     |    |      |    |      |     |     |    |      |    |      |     |     |    |      |    |      |
|                                     | 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° - 90°           | 24'   | 3 fc   |   |                   |                    |       |  |       |  |      |           |      |           |     |     |    |      |    |      |     |     |    |      |    |      |     |     |    |      |    |      |
| 120°                                | 90° - 180°                         | 28'                | 2 fc  |  |   |                   |                    |       |  |       |  |      |           |      |           |     |     |    |      |    |      |     |     |    |      |    |      |     |     |    |      |    |      |
| 140°                                | 0° - 90°                           |                    |   |  |   |                   |                    |       |  |       |  |      |           |      |           |     |     |    |      |    |      |     |     |    |      |    |      |     |     |    |      |    |      |
| 160°                                | 90° - 180°                         |                    |   |  |   |                   |                    |       |  |       |  |      |           |      |           |     |     |    |      |    |      |     |     |    |      |    |      |     |     |    |      |    |      |
| 180°                                | 0° - 90°                           |                    |   |  |   |                   |                    |       |  |       |  |      |           |      |           |     |     |    |      |    |      |     |     |    |      |    |      |     |     |    |      |    |      |
|                                     | Total                              |                    |   |  |   |                   |                    |       |  |       |  |      |           |      |           |     |     |    |      |    |      |     |     |    |      |    |      |     |     |    |      |    |      |

Delivered Lumens: 2463  
Luminaire Watts: 25.8  
LER: 95.47

CP at 0° (Nadir): 1547  
CRI: 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

