



4" ROUND DIRECT / INDIRECT
DAMP LOCATION
GAMMA SERIES

PROJECT: _____
 QUANTITY: _____ TYPE: _____



CF0412UDPC



CF0418UDPC

| SERIES | LUMENS ^{1/2} | | CCT | OPTICS ³ | | | DRIVER / DIMMING ⁴ | | LENS ⁵ | | MOUNTING ⁶ | | FINISH ⁷ | |
|------------------------|-----------------------|---------|------------|---------------------|--------|-----------|-------------------------------|---|---|------------------|---|--|---------------------|--|
| CF0412UDPC 4" x 12" | 10L | 1550 Lm | 80 CRI | UPLIGHT | | DOWNLIGHT | | EX Electronic Driver, 120V/277V DO10X 1%, 0-10V, 120V/277V DS2W1 ELV/MLV, 120V | NL No Lens CL Clear Lens SO Micro Prism Solite™ Lens HL Hex Louver | WM Wall Mount | EMER. BAT. OPTIONS EMRM 7W Remote EM EMEN 7W Remote EM with Enclosure | MW ⁸ Matte White MB ⁸ Matte Black PT ⁸ Platinum Silver CC Custom Color | | |
| | 15L | 2300 Lm | 27K 2700K | ND 20° | ND 20° | ND 20° | | | | | | | | |
| CF0418UDPC 4" x 18" | 20L | 3100 Lm | 30K 3000K | MD 26° | MD 26° | | | | | | | | | |
| | | | 35K 3500K | WD 51° | WD 51° | | | | | | | | | |
| | | | 40K 4000K | XW 61° | XW 61° | | | | | | | | | |
| | | | 90 CRI | | | | | | | | | | | |
| | | | 27HK 2700K | | | | | | | | | | | |
| | | | 30HK 3000K | | | | | | | | | | | |
| | | | 35HK 3500K | | | | | | | | | | | |
| | | | 40HK 4000K | | | | | | | | | | | |

EXAMPLE: CF0412UDPC15L35KMDWDEX/NL/WM/MW

NOTES:

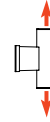
1 Nominal Delivered Combined Uplight/Downlight Lumens at 3500K 2 Uplight & Downlight Use The Same Lumen Output 3 See IES Files for Details 4 Consult Factory for Additional Options
 5 Uplight & Downlight Use The Same Lens 6 See Mounting Page for Details on Components and Finishes 7 Reference Color Sheet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





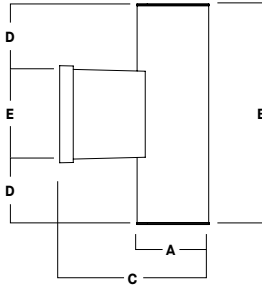
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| LUMENS / WATTAGE DATA | | | |
|-----------------------|-------------------------------|--------------|-----|
| PART NUMBER | DELIVERED LUMENS ¹ | SYSTEM WATTS | LPW |
| CF0418UDPC 10L | 1567 | 12.9 | 121 |
| CF0418UDPC 15L | 2319 | 19 | 122 |
| CF0418UDPC 20L | 3134 | 25.8 | 121 |



¹ Nominal Delivered Combined Uplight/Downlight Lumens at 3500K, 80 CRI, Wide Optic with No Lens

DIMENSIONS



Dimensioned with **CF0412UDPC**

| SERIES | A | B | C | D | E |
|------------|-----|------|-----|-----|-----|
| CF0412UDPC | 4.0 | 12.2 | 8.3 | 3.4 | 5.4 |
| CF0418UDPC | 4.0 | 18.2 | 8.3 | 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 ≤ 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. Twist and lock trim design for no visible fasteners. Passive aluminum heatsink optimized for LED life and performance. Direct and indirect individually specified specular reflectors offered in variety of beam spreads. Lens accessory options available (maximum of 2) will match direct and indirect.

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 dry or damp 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

CF0412UDPC



CF0418UDPC



STANDARD FINISHES SHOWN WITH CF0412UDPC

MW
Matte White



MB
Matte Black

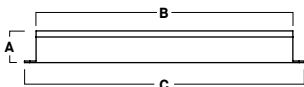


PT
Platinum Silver



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

CF04XXUDPC 20LNDCL 20LNDNL 35KXX XXMW (IND/DIR Damp location)

| CANDLEPOWER CURVE TEST SP-01091 | 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° 568 19% | Mounting Height AFF | FC at Center on Floor | Ceiling Height | Fixture Spacing | RCR 4 | | RCR 6 | |
| | 0° 8135 | 0° - 30° 1384 46% | | | | | FC * | W/Sq. Ft. | FC * | W/Sq. Ft. |
| | 20° 856 | 0° - 60° 1615 53% | 10' | 81 fc | 18' | 4' | 147 | 1.69 | 115 | 1.50 |
| | 40° 104 | 90° - 120° 6 0% | 12' | 56 fc | 22' | 5' | 84 | 0.97 | 66 | 0.86 |
| | 60° 2 | 90° - 150° 197 6% | 14' | 42 fc | 26' | 6' | 55 | 0.63 | 61 | 0.80 |
| | 80° 1 | 0° - 90° 1602 53% | 16' | 32 fc | Delivered Illuminance Rating: (DIR) | | | | | |
| | 90° 1 | 90° - 180° 1448 48% | 20' | 20 fc | 87 FC per W/Sq. Ft. 77 FC per W/Sq. Ft. | | | | | |
| | 100° 2 | Total 3019 100% | 24' | 14 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 | | | | | |
| | 120° 6 | | 28' | 10 fc | | | | | | |
| | 140° 82 | | 32' | 8 fc | | | | | | |
| | 160° 873 | | | | | | | | | |
| | 180° 7143 | | | | | | | | | |

Delivered Lumens: 3081
Luminaire Watts: 25.8
LER: 119.42

CP at 0° (Nadir): 8135
CRI: 80

Beam Angle: 342°
Spacing Ratio: 0.32

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

CF04XXUDPC 20LMDCL 20LMDNL 35KXX XXMW (IND/DIR Damp location)

| CANDLEPOWER CURVE TEST SP-01090 | 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° 427 14% | Mounting Height AFF | FC at Center on Floor | Ceiling Height | Fixture Spacing | RCR 3 | | RCR 5 | |
| | 0° 5311 | 0° - 30° 1409 45% | | | | | FC * | W/Sq. Ft. | FC * | W/Sq. Ft. |
| | 20° 1264 | 0° - 60° 1652 53% | 8' | 83 fc | 18' | 5' | 90 | 0.95 | 85 | 1.03 |
| | 40° 101 | 90° - 120° 10 0% | 10' | 53 fc | 22' | 7' | 52 | 0.55 | 49 | 0.59 |
| | 60° 2 | 90° - 150° 217 7% | 12' | 37 fc | 26' | 9''' | 33 | 0.35 | 31 | 0.38 |
| | 80° 1 | 0° - 90° 1647 53% | 14' | 27 fc | Delivered Illuminance Rating: (DIR) | | | | | |
| | 90° 1 | 90° - 180° 1488 48% | 16' | 21 fc | 95 FC per W/Sq. Ft. 82 FC per W/Sq. Ft. | | | | | |
| | 100° 1 | Total 3119 100% | 20' | 13 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 *** Exceeds Spacing Ratio by 2% | | | | | |
| | 120° 3 | | 24' | 9 fc | | | | | | |
| | 140° 91 | | 28' | 7 fc | | | | | | |
| | 160° 1165 | | | | | | | | | |
| | 180° 4763 | | | | | | | | | |

Delivered Lumens: 3151
Luminaire Watts: 25.8
LER: 122.13

CP at 0° (Nadir): 5311
CRI: 80

Beam Angle: 336°
Spacing Ratio: 0.43

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

CF04XXUDPC 20LWDCL 20LWDNL 35KXX XXMW (IND/DIR Damp location)

| CANDLEPOWER CURVE TEST SP-01092 | 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° 231 7% | Mounting Height AFF | FC at Center on Floor | Ceiling Height | Fixture Spacing | RCR 2 | | RCR 4 | |
| | 0° 2269 | 0° - 30° 1341 43% | | | | | FC * | W/Sq. Ft. | FC * | W/Sq. Ft. |
| | 20° 1615 | 0° - 60° 1635 52% | 8' | 35 fc | 18' | 8' | 42 | 0.42 | 36 | 0.42 |
| | 40° 132 | 90° - 120° 5 0% | 10' | 23 fc | 22' | 10' | 24 | 0.24 | 21 | 0.24 |
| | 60° 1 | 90° - 150° 268 9% | 12' | 16 fc | 26' | 12' | 16 | 0.16 | 13 | 0.16 |
| | 80° 1 | 0° - 90° 1639 53% | 14' | 12 fc | Delivered Illuminance Rating: (DIR) | | | | | |
| | 90° 1 | 90° - 180° 1494 48% | 16' | 9 fc | 101 FC per W/Sq. Ft. 85 FC per W/Sq. Ft. | | | | | |
| | 100° 2 | Total 3134 100% | 20' | 6 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 | | | | | |
| | 120° 2 | | 24' | 4 fc | | | | | | |
| | 140° 101 | | 28' | 3 fc | | | | | | |
| | 160° 1485 | | | | | | | | | |
| | 180° 2120 | | | | | | | | | |

Delivered Lumens: 3134
Luminaire Watts: 25.8
LER: 121.47

CP at 0° (Nadir): 2269
CRI: 80

Beam Angle: 312°
Spacing Ratio: 0.81

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

CF04XXUDPC 20LXWCL 20LXWNL 35KXX XXMW (IND/DIR Damp location)

| CANDLEPOWER CURVE TEST SP-01093 | 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° 180 6% | Mounting Height AFF | <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>26</td> <td>0.24</td> <td>22</td> <td>0.24</td> </tr> <tr> <td>22'</td> <td>12'</td> <td>20</td> <td>0.19</td> <td>12</td> <td>0.14</td> </tr> <tr> <td>26'</td> <td>14'</td> <td>13</td> <td>0.12</td> <td>13</td> <td>0.14</td> </tr> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">108 FC per W/Sq. Ft.</td> <td colspan="2">91 FC per W/Sq. Ft.</td> </tr> </tbody> </table> | Ceiling Height | Fixture Spacing | RCR 1 | | RCR 3 | | FC * | W/Sq. Ft. | FC * | W/Sq. Ft. | 18' | 10' | 26 | 0.24 | 22 | 0.24 | 22' | 12' | 20 | 0.19 | 12 | 0.14 | 26' | 14' | 13 | 0.12 | 13 | 0.14 | Delivered Illuminance Rating: (DIR) | | 108 FC per W/Sq. Ft. | | 91 FC per W/Sq. Ft. | |
| | Ceiling Height | Fixture Spacing | RCR 1 | | | | RCR 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | FC * | | W/Sq. Ft. | FC * | W/Sq. Ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 18' | 10' | 26 | | 0.24 | 22 | 0.24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22' | 12' | 20 | | 0.19 | 12 | 0.14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 26' | 14' | 13 | | 0.12 | 13 | 0.14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Delivered Illuminance Rating: (DIR) | | 108 FC per W/Sq. Ft. | | 91 FC per W/Sq. Ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0° 1837 | 0° - 30° 1265 41% | 8' | | 29 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20° 1596 | 0° - 60° 1629 53% | 10' | | 18 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 40° 150 | 90° - 120° 6 0% | 12' | | 13 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 60° 2 | 90° - 150° 307 10% | 14' | | 9 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 80° 1 | 0° - 90° 1634 53% | 16' | | 7 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 90° 1 | 90° - 180° 1450 47% | 20' | | 5 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100° 1 | Total 3084 100% | 24' | 3 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 120° 3 | | 28' | 2 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 140° 131 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 160° 1443 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 180° 1677 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Delivered Lumens: 3084
Luminaire Watts: 25.8
LER: 119.53

CP at 0° (Nadir): 1837
CRI: 80

Beam Angle: 301°
Spacing Ratio: 0.99

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