



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	MW ⁸ Matte White MB ⁸ Matte Black PT ⁸ Platinum Silver CC Custom Color	See Page 5 for Full Range of Color Options (83-90095)	
	15L	2300 Lm	27K 2700K	ND 20°	ND 20°	ND 20°	ND 20°						
CF0418UDPC 4" x 18"	20L	3100 Lm	30K 3000K	MD 26°	MD 26°	MD 26°	MD 26°						
			35K 3500K	WD 51°	WD 51°	WD 51°	WD 51°						
			40K 4000K	XW 61°	XW 61°	XW 61°	XW 61°						
			90 CRI										
			27HK 2700K										
			30HK 3000K										
										EMER. BAT. OPTIONS			
										EMRM 7W Remote EM			
										EMEN 7W Remote EM with Enclosure			

EXAMPLE: CF0412UDPC15L35KMDWDEX/NL/WM/MW

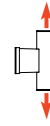
NOTES:
 1 Nominal Delivered Combined Uplight/Downlight Lumens at 3500K 2 Uplight & Downlight Use The Same Lumen Output 3 See IES Files for Details 4 Consult Factory for Additional Options
 5 Uplight & Downlight Use The Same Lens 6 See Mounting Page for Details on Components and Finishes 7 See Color Page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





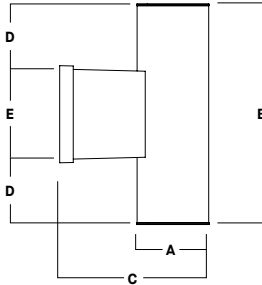
4" ROUND DIRECT / INDIRECT DAMP LOCATION GAMMA SERIES

LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS ¹	SYSTEM WATTS	LPW
CFO418UDPC 10L	1567	12.9	121
CFO418UDPC 15L	2319	19	122
CFO418UDPC 20L	3134	25.8	121



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

DIMENSIONS



Dimensioned with **CFO412UDPC**

SERIES	A	B	C	D	E
CFO412UDPC	4.0	12.2	8.3	3.4	5.4
CFO418UDPC	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 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

CFO412UDPC



CFO418UDPC



STANDARD FINISHES SHOWN WITH CFO412UDPC

MW
Matte White



MB
Matte Black

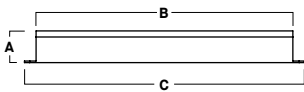


PT
Platinum Silver



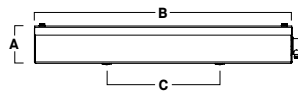
EMERGENCY BATTERY OPTIONS

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%	<table border="1"> <thead> <tr> <th>Mounting Height AFF</th> <th>FC at Center on Floor</th> </tr> </thead> <tbody> <tr><td>8'</td><td>29 fc</td></tr> <tr><td>10'</td><td>18 fc</td></tr> <tr><td>12'</td><td>13 fc</td></tr> <tr><td>14'</td><td>9 fc</td></tr> <tr><td>16'</td><td>7 fc</td></tr> <tr><td>20'</td><td>5 fc</td></tr> <tr><td>24'</td><td>3 fc</td></tr> <tr><td>28'</td><td>2 fc</td></tr> </tbody> </table>	Mounting Height AFF	FC at Center on Floor	8'	29 fc	10'	18 fc	12'	13 fc	14'	9 fc	16'	7 fc	20'	5 fc	24'	3 fc	28'	2 fc	<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> </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
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0° 1837	0° - 30° 1265 41%	8' 29 fc	18' 10' 26 0.24 22 0.24																																															
20° 1596	0° - 60° 1629 53%	10' 18 fc	22' 12' 20 0.19 12 0.14																																															
40° 150	90° - 120° 6 0%	12' 13 fc	26' 14' 13 0.12 13 0.14																																															
60° 2	90° - 150° 307 10%	14' 9 fc	Delivered Illuminance Rating: (DIR)																																															
80° 1	0° - 90° 1634 53%	16' 7 fc	108 FC per W/Sq. Ft. 91 FC per W/Sq. Ft.																																															
90° 1	90° - 180° 1450 47%	20' 5 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																																															
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



COLOR OPTIONS - POWDER COAT PAINT FINISHES

NOTE: NO PRINTED IMAGE CAN EQUAL THE EXACT COLOR OF FINISH ON METAL.
SEE INDIVIDUAL SPECIFICATION SHEETS OR CONSULT FACTORY FOR ADDITIONAL INFORMATION.



STANDARD CORD / STEM / CANOPY FINISHES

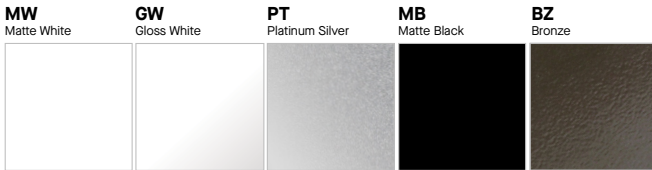
FIXTURE COLOR	STANDARD CORD COLOR	STANDARD CANOPY / STEM COLOR
Matte White, Textured White	Matte White	Matte White
Gloss White	Matte White	Gloss White
Matte Black, Textured Black	Matte Black	Matte Black
All Others	Matte Black	Same Color as Fixture
Custom Color	Contact Factory	Contact Factory

PAINT TIMES

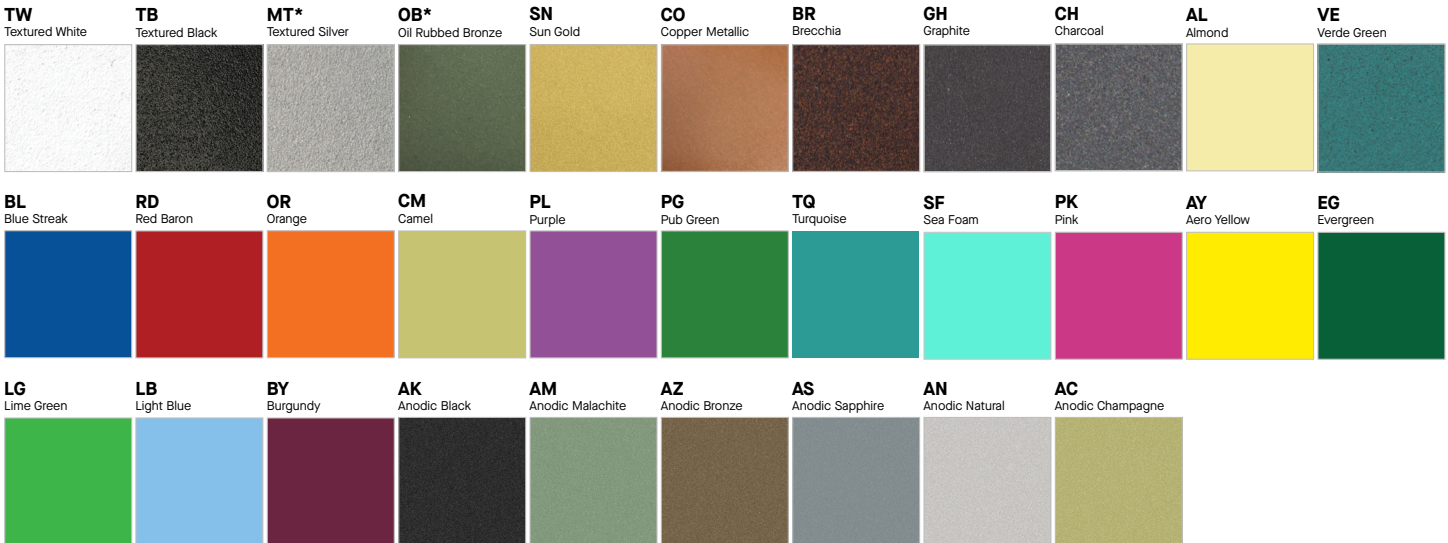
TIER	COST	AVERAGE PAINT TIME*
Tier 1 - Standard Finishes	\$	⌚
Tier 2 - Typical Finishes	\$\$	⌚⌚
Custom Color	Contact Factory	Contact Factory

*CONTACT FACTORY FOR SPECIFIC PRODUCT LEAD TIMES

TIER 1 - STANDARD FINISHES



TIER 2 - TYPICAL FINISHES



CUSTOM COLOR FINISHES

CONTACT FACTORY

CC
Custom Color



*UNAVAILABLE FOR WET LOCATION

