



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

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



CF0412UDPC



CF0418UDPC

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>	
CF0412UDPC 4" x 12"	10L	1550 Lm	80 CRI	UPLIGHT		DOWNLIGHT		EX Electronic Driver, 120V/277V	NL No Lens	WM Wall Mount	MW <sup>8</sup> Matte White	MB <sup>8</sup> Matte Black	PT <sup>8</sup> Platinum Silver	CC Custom Color
	15L	2300 Lm		27K	2700K	ND	20°							
CF0418UDPC 4" x 18"	20L	3100 Lm	30K	3000K	MD	26°	MD	26°	DS2W1 ELV/MLV, 120V	SO Micro Prism Solite™ Lens	HL Hex Louver	EMRM 7W Remote EM	EMEN 7W Remote EM with Enclosure	See Page 5 for Full Range of Color Options (83-90095)
			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

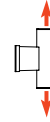
**NOTES:**  
 1 Nominal Delivered Combined Uplight/Downlight Lumens at 3500K 2 Uplight & Downlight Use The Same Lumen Output 3 See IES Files for Details 4 Consult Factory for Additional Options  
 5 Uplight & Downlight Use The Same Lens 6 See Mounting Page for Details on Components and Finishes 7 See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





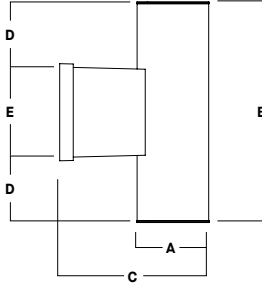
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LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS <sup>1</sup>	SYSTEM WATTS	LPW
CF0418UDPC 10L	1567	12.9	121
CF0418UDPC 15L	2319	19	122
CF0418UDPC 20L	3134	25.8	121



<sup>1</sup> 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  $\leq 3$  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. 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



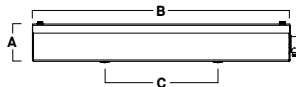
## EMERGENCY BATTERY OPTIONS

**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°		Mounting Height AFF	FC at Center on Floor	Ceiling Height	Fixture Spacing	RCR 1		RCR 3	
	0° 1837	0° - 10° 180 6%	8'	29 fc	18'	10'	FC *	W/Sq. Ft.	FC *	W/Sq. Ft.
	20° 1596	0° - 30° 1265 41%	10'	18 fc	22'	12'	26	0.24	22	0.24
	40° 150	0° - 60° 1629 53%	12'	13 fc	26'	14'	20	0.19	12	0.14
	60° 2	90° - 120° 6 0%	14'	9 fc	Delivered Illuminance Rating: (DIR)		13	0.12	13	0.14
	80° 1	90° - 150° 307 10%	16'	7 fc	108 FC per W/Sq. Ft.		91 FC per W/Sq. Ft.			
	90° 1	0° - 90° 1634 53%	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	90° - 180° 1450 47%	24'	3 fc						
	120° 3	Total 3084 100%	28'	2 fc						

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

