



4" ROUND DIRECT
WET LOCATION
 GAMMA SERIES

PROJECT: _____
 QUANTITY: _____ TYPE: _____



CW0406PC



CW0412PC



CW0418PC

SERIES	LUMENS ¹		CCT		OPTICS		DRIVER / DIMMING ²		LENS		MOUNTING ³		FINISH ⁶	
CW0406PC 4" x 6"	10L	550 Lm	80 CRI		ND	21°	EX	Electronic Driver, 120V/277V	CL	Clear Glass Lens	HM^{4/5}	Hang Straight	MW⁷	Matte White
	15L	800 Lm	27K	2700K										
CW0412PC 4" x 12"	20L	1100 Lm	30K	3000K	WD	49°	DS2W1	ELV/MLV, 120V		Solite™ Lens	SM	Surface Mount	PT⁷	Platinum Silver
			35K	3500K										
CW0418PC 4" x 18"			90 CRI								EMERGENCY BATTERY OPTIONS		See Page 6 for Full Range of Color Options (83-90165)	
	27HK	2700K									EMRM	7W Remote EM		
	30HK	3000K									EMEN	7W Remote with Enclosure		
	35HK	3500K												
			40HK	4000K										

EXAMPLE: CW0406PC15L35KNDEX/CL/HM36/MW

NOTES:

1 Nominal Delivered Lumens at 3500K 2 Consult Factory for Additional Options 3 See Mounting Page for Details on Components and Finishes 4 Specify Length in Inches: See Mounting Page for Available Lengths 5 Not for Use in Locations with Wind Exposure 6 See Color Page for More Options/Consult Factory for Special Finishes 7 Standard Finishes



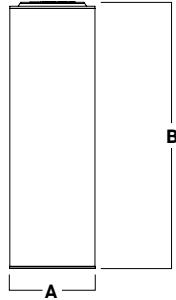


4" ROUND DIRECT WET LOCATION GAMMA SERIES

LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS	SYSTEM WATTS	LPW
CW0412PC 10L	549	6.5	84
CW0412PC 15L	813	9.5	86
CW0412PC 20L	1098	12.9	85

1 Nominal Delivered Lumens at 3500K, 80 CRI, Medium Optic with Clear Lens

DIMENSIONS



Dimensioned with **CW0412PC**

SERIES	A	B
CW0406PC	4.1	6.4
CW0412PC	4.1	12.4
CW0418PC	4.1	18.4

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.

CONSTRUCTION

Seamless cylinder body machined from 6063 extruded aluminum. Trim and top cap are die-cast aluminum. Self-locating trim is secured with self-sealing stainless steel hardware. Nitrile rubber o-rings provide additional ingress protection from water. Passive aluminum heatsink optimized for emitter life and performance. Specular reflectors offered in variety of beam spreads. Lens type must be specified. Luminaire will not exceed 5 lbs.

MOUNTING

All pendant options are specified in inches. Mounting bracket and canopies provided for direct installation with 4" octagonal junction boxes. Hang Mount (3/8"NPT) and Rigid Stem (3/8"IP) are 1/2" diameter and produced from steel pipe. Hang Mount option provides up to 45° tilt correction. Surface mount kit provided with aluminum mounting plate to install directly to junction box. 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#). Canopy and stems 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

CW0406PC



CW0412PC



CW0418PC



STANDARD FINISHES

SHOWN WITH CW0412PC

MW
Matte White



MB
Matte Black



PT
Platinum Silver



CEILING MOUNT

(SEE MOUNTING PAGES FOR MORE OPTIONS & CANOPY DIMENSIONS.)

HM / PM
HANG STRAIGHT / PENDANT



CW0412PC SHOWN WITH PM

SM
SURFACE MOUNT



CW0412PC SHOWN WITH SM





4" ROUND DIRECT

GAMMA SERIES / PHOTOMETRIC DATA

CW04XXPC 20L 35K ND XX CL XX

CANDLEPOWER CURVE TEST SP-01050	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° 381 34%	Mounting Height AFF	<table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 4</th> <th colspan="2">RCR 6</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>14'</td> <td>3'</td> <td>123</td> <td>1.46</td> <td>101</td> <td>1.30</td> </tr> <tr> <td>18'</td> <td>4'</td> <td>61</td> <td>0.72</td> <td>72</td> <td>0.92</td> </tr> <tr> <td>22'</td> <td>5'</td> <td>46</td> <td>0.55</td> <td>43</td> <td>0.55</td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 4		RCR 6		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	14'	3'	123	1.46	101	1.30	18'	4'	61	0.72	72	0.92	22'	5'	46	0.55	43	0.55
	Ceiling Height	Fixture Spacing	RCR 4				RCR 6																									
			FC *	W/Sq. Ft.	FC *	W/Sq. Ft.																										
	14'	3'	123	1.46	101	1.30																										
	18'	4'	61	0.72	72	0.92																										
	22'	5'	46	0.55	43	0.55																										
	0°	0° - 20° 798 71%	FC at Center on Floor	Beam Diameter	FC at Beam Edge																											
	5°	0° - 30° 1049 93%	8' 84 fc	3.0'	40 fc																											
	15°	0° - 40° 1113 99%	10' 53 fc	3.7'	25 fc																											
	25°	0° - 60° 1122 99%	12' 37 fc	4.5'	18 fc																											
	35°	0° - 80° 1126 100%	14' 27 fc	5.2'	13 fc																											
45°	0° - 90° 1128 100%	16' 21 fc	5.9'	10 fc																												
55°	90° 1	20' 13 fc	7.4'	6 fc																												
90°	Total 1128 100%	24' 9 fc	8.9'	4 fc																												
		28' 7 fc	10.4'	3 fc																												

Delivered Lumens: 1128
Luminaire Watts: 12.9
LER: 87.44

CP at 0° (Nadir): 5349
CRt: 80

Beam Angle: 21°
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

CW04XXPC 20L 35K MD XX CL XX

CANDLEPOWER CURVE TEST SP-01047	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° 299 27%	Mounting Height AFF	<table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 3</th> <th colspan="2">RCR 5</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>14'</td> <td>4'</td> <td>70</td> <td>0.82</td> <td>70</td> <td>0.89</td> </tr> <tr> <td>18'</td> <td>6'</td> <td>27</td> <td>0.31</td> <td>22</td> <td>0.28</td> </tr> <tr> <td>22'</td> <td>8''*</td> <td>16</td> <td>0.19</td> <td>13</td> <td>0.17</td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 3		RCR 5		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	14'	4'	70	0.82	70	0.89	18'	6'	27	0.31	22	0.28	22'	8''*	16	0.19	13	0.17
	Ceiling Height	Fixture Spacing	RCR 3				RCR 5																									
			FC *	W/Sq. Ft.	FC *	W/Sq. Ft.																										
	14'	4'	70	0.82	70	0.89																										
	18'	6'	27	0.31	22	0.28																										
	22'	8''*	16	0.19	13	0.17																										
	0°	0° - 20° 744 68%	FC at Center on Floor	Beam Diameter	FC at Beam Edge																											
	5°	0° - 30° 1017 93%	8' 59 fc	3.9'	27 fc																											
	15°	0° - 40° 1084 99%	10' 38 fc	4.8'	17 fc																											
	25°	0° - 60° 1093 100%	12' 26 fc	5.8'	12 fc																											
	35°	0° - 80° 1097 100%	14' 19 fc	6.7'	9 fc																											
45°	0° - 90° 1098 100%	16' 15 fc	7.7'	7 fc																												
55°	90° 1	20' 9 fc	9.6'	4 fc																												
90°	Total 1098 100%	24' 7 fc	11.6'	3 fc																												
		28' 5 fc	13.5'	2 fc																												

Delivered Lumens: 1098
Luminaire Watts: 12.9
LER: 85.12

CP at 0° (Nadir): 3785
CRt: 80

Beam Angle: 27°
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

CW04XXPC 20L 35K WD XX CL XX

CANDLEPOWER CURVE TEST SP-01072	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° 190 16%	Mounting Height AFF	<table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 2</th> <th colspan="2">RCR 4</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>14'</td> <td>6'</td> <td>35</td> <td>0.37</td> <td>32</td> <td>0.37</td> </tr> <tr> <td>18'</td> <td>8'</td> <td>17</td> <td>0.18</td> <td>16</td> <td>0.18</td> </tr> <tr> <td>22'</td> <td>10'</td> <td>13</td> <td>0.14</td> <td>9</td> <td>0.11</td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	14'	6'	35	0.37	32	0.37	18'	8'	17	0.18	16	0.18	22'	10'	13	0.14	9	0.11
	Ceiling Height	Fixture Spacing	RCR 2				RCR 4																									
			FC *	W/Sq. Ft.	FC *	W/Sq. Ft.																										
	14'	6'	35	0.37	32	0.37																										
	18'	8'	17	0.18	16	0.18																										
	22'	10'	13	0.14	9	0.11																										
	0°	0° - 20° 643 53%	FC at Center on Floor	Beam Diameter	FC at Beam Edge																											
	5°	0° - 30° 1071 89%	8' 32 fc	7.3'	12 fc																											
	15°	0° - 40° 1190 99%	10' 20 fc	9.1'	8 fc																											
	25°	0° - 60° 1198 100%	12' 14 fc	10.9'	5 fc																											
	35°	0° - 80° 1202 100%	14' 10 fc	12.7'	4 fc																											
45°	0° - 90° 1203 100%	16' 8 fc	14.6'	3 fc																												
55°	90° 2	20' 5 fc	18.2'	2 fc																												
90°	Total 1203 100%	24' 4 fc	21.8'	1 fc																												
		28' 3 fc	25.5'	1 fc																												

Delivered Lumens: 1203
Luminaire Watts: 12.9
LER: 93.26

CP at 0° (Nadir): 2017
CRt: 80

Beam Angle: 49°
Spacing Ratio: 0.77

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





4" ROUND DIRECT

GAMMA SERIES / PHOTOMETRIC DATA

CW04XXPC 20L 35K XW XX CL XX

CANDLEPOWER CURVE TEST SP-01074	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	Beam Diameter	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 1		RCR 3		
	0°	0° - 10° 147 12%	8'	24 fc	8.7'	8 fc	14'	8'	21	0.21	19	0.21	
	0° 1547	0° - 20° 556 45%	10'	15 fc	10.9'	5 fc	18'	10'	12	0.12	9	0.10	
	5° 1544	0° - 30° 1039 85%	12'	11 fc	13.1'	4 fc	22'	12'	9	0.08	9	0.09	
	15° 1473	0° - 40° 1208 98%	14'	8 fc	15.3'	3 fc	Delivered Illuminance Rating: (DIR)						
	25° 1117	0° - 60° 1222 100%	16'	6 fc	17.5'	2 fc	103 FC per W/Sq. Ft. 92 FC per W/Sq. Ft.						
	35° 232	0° - 80° 1226 100%	20'	4 fc	21.9'	1 fc	2' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 1: Length & Width = Ceiling Ht. - 4.5' x 10.00 RCR 3: Length & Width = Ceiling Ht. - 4.5' x 3.33						
	45° 8	0° - 90° 1227 100%	24'	3 fc	26.2'	1 fc	* Average Footcandles at 2.5' Above Floor						
	55° 3	Total	1227 100%	28'	2 fc	30.6'	1 fc						
	90° 1												

Delivered Lumens: 1227
Luminaire Watts: 12.9
LER: 95.12

CP at 0° (Nadir): 1547
CRI: 80

Beam Angle: 58°
Spacing Ratio: 0.95

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

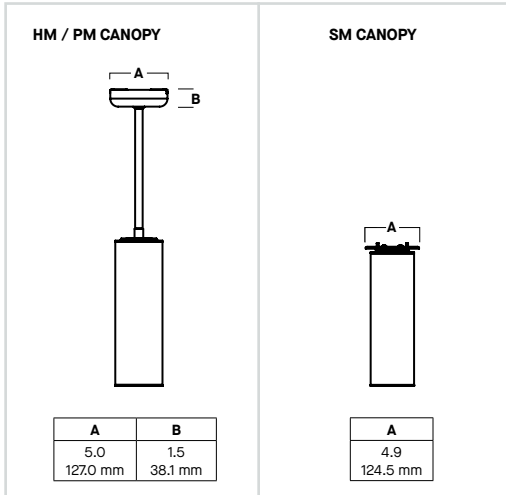


STANDARD MOUNTING & ACCESSORIES

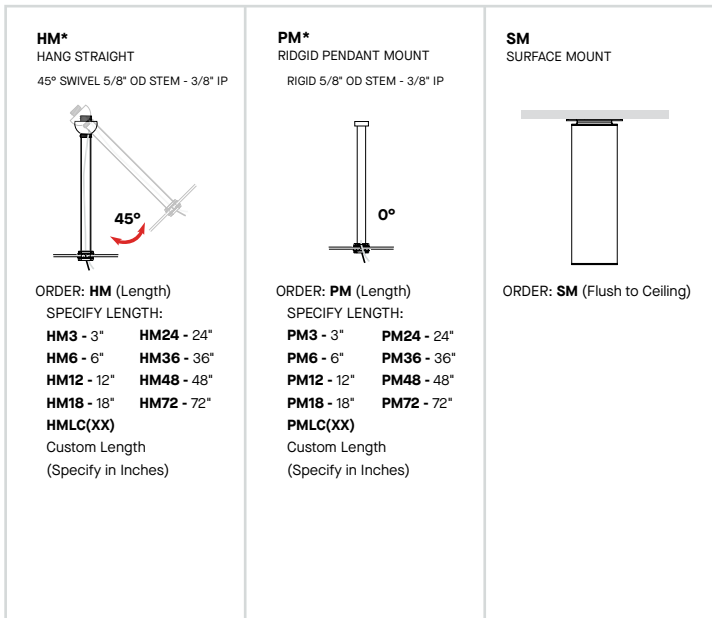
SOME OPTIONS NOT AVAILABLE ON ALL FIXTURES, CONSULT SPECIFICATION SHEETS. SEE INDIVIDUAL SPECIFICATION SHEETS OR CONSULT FACTORY FOR ADDITIONAL INFORMATION.
NOTE: THIS IS TYPICAL OF CYLINDERS SPECIFICATION FOR PENDANT MOUNTING. INDIVIDUAL FIXTURES OR PROJECTS MAY HAVE SPECIALIZED REQUIREMENTS.



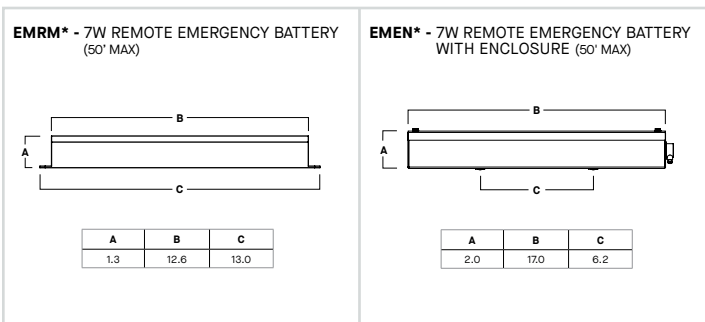
CANOPY DIMENSIONS



MOUNTING TYPES



REMOTE EMERGENCY BATTERY OPTIONS



*OTHER EM BATTERY SIZES AVAILABLE, CONSULT FACTORY

