

CK0407PC

4" ROUND DIRECT

4" round x 7" high surface mount cylinder luminaire designed for general illumination in spaces with exposed conduit and 4" surface-mounted octagonal junction boxes.

LUMENS / WATTAGE DATA			
PART NUMBER	DELIVERED LUMENS ¹	SYSTEM WATTS	LPW
CK0407PC10L	778	6.7	116
CK0407PC15L	1038	9.5	109
CK0407PC20L	1424	13.2	108
CK0407PC30L	1949	17.8	109

¹ Nominal Delivered Lumens at 35K MD xx NL xx MW

FEATURES

Spectrum's Cylinder series provides traditional architectural style with high performance and energy efficient illumination. Rugged design with flexible mounting, finish and LED options make these extremely versatile fixtures. Integral LED driver. Quick change LED module for job site flexibility and fixture upgrade.

FINISH

Multi-stage polyester powder-coat process applied on our dedicated paint lines. See mounting and color pages for standard finishes. All exposed materials are chromate pretreated to resist corrosion.

ELECTRONICS

LED module features state of the art, high efficiency LEDs. 3-step MacAdam Ellipse binning with 82 and 92 CRI available. DS2W1 MLV/ELV phase cut driver dims smooth to 1%. 0-10V 1% 120V and 277V options.

CONSTRUCTION

Fixtures are machined in our factory from 6063-H32 high purity aluminum extrusions. Specular primary optical reflectors provide high efficiency illumination. Plated steel hardware with galvanized steel brackets to resist corrosion. Machined conduit clearance slots are 1.125" wide and are offered in a variety of patterns.

CODE COMPLIANCE

BAA compliant. ETL certified to meet US and Canadian standards. Suitable for dry or damp locations. Manufactured and tested to UL standards No. 1598/8750.

PRODUCT SELECTOR GUIDE

SERIES	LUMENS ¹	CCT	OPTICS	DRIVER / VOLTAGE	OPTIONS	MOUNTING	FINISH	ACCESSORIES
CK0407PC								

EXAMPLE

CK0407PC	10L	35K	MD	EX	SO	CS2	MW	
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SERIES	LUMENS ¹	CCT	OPTICS	DRIVER / VOLTAGE ⁴	LENS	MOUNTING ^{6/7}	FINISH ⁸	ACCESSORIES		
CK0407PC	10L	800 Lm	82 CRI	ND 23°	EX Electronic Driver, 120V/277V DO10X ² 1%, 0-10V, 120V/277V DS2W1 ³ ELV/MLV, 120V EXEM Electronic Driver, 120V/277V DO10XEM 1%, 0-10V, 120V/277V DS2W1EM ELV/MLV, 120V	SO ⁵ Micro Prism Solite™ Lens GL Clear Glass Lens	CS1 1x Conduit Feed CS2 2x Conduit Feed, Straight CS3 2x Conduit Feed, 90° Corner CS4 3x Conduit Feed, T Pattern CS5 4x Conduit Feed, X Pattern	EMRM 7W Remote EM EMEN 7W Remote with Enclosure		
	15L	1050 Lm	27K 2700K						MD 28°	MW ⁹ Matte White
	20L	1400 Lm	30K 3000K	WD 37°					MB ⁹ Matte Black	
	30L ^{2/3}	1950 Lm	35K 3500K	XW 64°					PT ⁹ Platinum Silver	
			40K 4000K						CC Custom Color	
			92 CRI						See Page 7 for Full Range of Color Options (83-90095)	
			27HK 2700K							
			30HK 3000K							
			35HK 3500K							
			40HK 4000K							

¹ Nominal Delivered Lumens at Any CCT
² 30L DO10X Will Dim to 5%
³ 30L option is not compatible with DS2W1

² 30L DO10X Will Dim to 5%
³ 30L option is not compatible with DS2W1
⁴ Contact Factory for Additional Options

⁵ Standard Lens

⁶ See Second Page for Details on Components and Patterns
⁷ Junction box and conduit by others

⁸ See Color Page for More Options/
Consult Factory for Special Finishes
⁹ Standard Finishes



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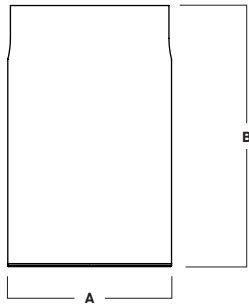
PROJECT: _____

QUANTITY: _____

TYPE: _____







FIXTURE DIMENSIONS



A	B
4.5	71
114.3 mm	180.3 mm

Fixture Weight: 3.8 lbs

FINISH

MW Matte White 	MB Matte Black 	PT Platinum Silver 	CC Custom Color 
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PAINT TIMES

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

*CONTACT FACTORY FOR SPECIFIC PRODUCT LEAD TIMES

MOUNTING TYPES

CS1
1x CONDUIT FEED



CS2
2x CONDUIT FEED, STRAIGHT



CS3
3x CONDUIT FEED, 90° CORNER



CS4
4x CONDUIT FEED, T PATTERN



CS5
5x CONDUIT FEED, X PATTERN



CK0407PC 30L 35K ND xx NL xx MW

CANDLEPOWER CURVE TEST SP-01441_M-30L	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT																												
	0°	0° - 10° 515 27%	Mounting Distance	<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>4'</td> <td>128</td> <td>1.27</td> <td>87</td> <td>0.94</td> </tr> <tr> <td>18'</td> <td>5'</td> <td>67</td> <td>0.66</td> <td>71</td> <td>0.77</td> </tr> <tr> <td>22'</td> <td>6'</td> <td>54</td> <td>0.53</td> <td>44</td> <td>0.47</td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 4		RCR 6		FC +	W/Sq. Ft.	FC +	W/Sq. Ft.	14'	4'	128	1.27	87	0.94	18'	5'	67	0.66	71	0.77	22'	6'	54	0.53	44	0.47
	Ceiling Height	Fixture Spacing	RCR 4				RCR 6																									
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	0° 6944	0° - 20° 1185 61%	6.5'	164 fc	2.7'	77 fc																										
	5° 6041	0° - 30° 1640 85%	7.5'	123 fc	3.1'	58 fc																										
	15° 2395	0° - 40° 1864 97%	8.5'	96 fc	3.5'	45 fc																										
	25° 962	0° - 60° 1901 98%	10.0'	69 fc	4.1'	33 fc																										
35° 334	0° - 80° 1917 99%	12.0'	48 fc	4.9'	23 fc																											
45° 24	0° - 90° 1920 99%	14.0'	35 fc	5.7'	17 fc																											
55° 15	Total 1930 100%	16.0'	27 fc	6.6'	13 fc																											
90° 2		20.0'	17 fc	8.2'	8 fc																											
		Delivered Illuminance Rating: (DIR)		101 FC per W/Sq. Ft.		93 FC per W/Sq. Ft.																										
1' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 4: Length & Width = Ceiling Ht. - 3.5' x 2.50 RCR 6: Length & Width = Ceiling Ht. - 3.5' x 1.66 * Average Initial Footcandles at 2.5' Above Floor																																

Delivered Lumens: 1930
Luminaire Watts: 17.8
LER: 108.43

CP at 0° (Nadir): 6944
CRI: 80

Beam Angle: 23°
Spacing Ratio: 0.39

Lumen Multiplier: 10L x 0.34, 15L x 0.49, 20L x 0.67
CCT Multiplier: 27K x 0.95, 30K x 0.97, 40K x 1.03

CK0407PC 30L 35K MD xx NL xx MW

CANDLEPOWER CURVE TEST SP-01439_M-30L	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT																												
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	22'	7'	31	0.30	28	0.30																										
	0° 5725	0° - 20° 1176 60%	6.5'	136 fc	3.3'	62 fc																										
	5° 5386	0° - 30° 1643 84%	7.5'	102 fc	3.8'	46 fc																										
	15° 2575	0° - 40° 1879 96%	8.5'	79 fc	4.3'	36 fc																										
	25° 1001	0° - 60° 1920 98%	10.0'	57 fc	5.0'	26 fc																										
35° 382	0° - 80° 1936 99%	12.0'	40 fc	6.0'	18 fc																											
45° 25	0° - 90° 1938 99%	14.0'	29 fc	7.0'	13 fc																											
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Delivered Lumens: 1949
Luminaire Watts: 17.8
LER: 109.49

CP at 0° (Nadir): 5725
CRI: 80

Beam Angle: 28°
Spacing Ratio: 0.47

Lumen Multiplier: 10L x 0.34, 15L x 0.49, 20L x 0.67
CCT Multiplier: 27K x 0.95, 30K x 0.97, 40K x 1.03

HOW TO USE PERFORMANCE DATA

SINGLE UNIT	MULTIPLE UNITS
<p>One of Light of a single, symmetrical beam luminaire. Direct initial illumination (FC) and Beam Angle diameter directly beneath fixture; shown at different distances from aperture to horizontal plane. Calculated using Inverse Square Law.</p> $FC_{H} = CP \times (\cos \theta) \div D^2$ <p>Beam Diam. = 1/2 Beam Angle (Tan) x 2D</p> <ul style="list-style-type: none"> • CP Candela at 0° (Nadir) • Cos θ Cosine of θ Angle • D Distance (Mounting Height AFF) • FC_H Footcandles, Horizontal • Beam Angle Cone of light to 50% max. CP • Beam Diam. Pattern of light at Beam Angle 	<p>Square grid layout of multiple luminaires in unfurnished, square rooms of different proportions (Room Cavity Ratios) with 80/50/20% room surface reflectances. 2' Suspension Length to aperture. Initial average illumination (FC) calculated at 2.5' above floor, using Zonal Cavity Method. W/Sq. Ft. of layout shown for each ceiling height and RCR.</p> <p>Delivered Illuminance Rating (DIR®): System performance indicator expressed as ratio of approximate initial FC per W/Sq. Ft. delivered to horizontal plane below, for the range of ceiling heights indicated.</p> <ul style="list-style-type: none"> • To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio): $FC = \text{Chart Spacing}^2 \div \text{Different Spacing}^2 \times \text{Chart FC}$ • To estimate FC, Sq. Ft. per fixture for a specific target FC: $\text{Sq. Ft.} / \text{Fixture} = \text{Chart FC} \times \text{Chart Spacing}^2 \div \text{Target FC}$ <ul style="list-style-type: none"> • To estimate Fixture Quantity in a room: $\text{Fixture Qty.} = \text{Sq. Ft. of Rm.} \div \text{Sq. Ft. per fixture}$ • To estimate Watts/Sq. Ft.: $W / \text{Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}$

CKO407PC 30L 35K WD xx NL xx MW

CANDLEPOWER CURVE TEST SP-01443_M-30L	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT																																																																	
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Delivered Lumens: 1958
Luminaire Watts: 17.8
LER: 110.00

CP at 0° (Nadir): 4109
CRI: 80

Beam Angle: 37°
Spacing Ratio: 0.58

Lumen Multiplier: 10L x 0.34, 15L x 0.49, 20L x 0.67
CCT Multiplier: 27K x 0.95, 30K x 0.97, 40K x 1.03

CKO407PC 30L 35K XW xx NL xx MW

CANDLEPOWER CURVE TEST SP-01445_M-30L	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT																																																																	
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0° 1749	0° - 30° 1161 64%	<table border="1"> <thead> <tr> <th>Delivered Illuminance Rating: (DIR)</th> <th colspan="2">101 FC per W/Sq. Ft.</th> <th colspan="2">87 FC per W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td colspan="5"> 1' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 2: Length & Width = Ceiling Ht. - 3.5' x 5.00 RCR 4: Length & Width = Ceiling Ht. - 3.5' x 2.50 * Average Initial Footcandles at 2.5' Above Floor </td> </tr> </tbody> </table>	Delivered Illuminance Rating: (DIR)	101 FC per W/Sq. Ft.		87 FC per W/Sq. Ft.		1' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 2: Length & Width = Ceiling Ht. - 3.5' x 5.00 RCR 4: Length & Width = Ceiling Ht. - 3.5' x 2.50 * Average Initial Footcandles at 2.5' Above Floor																																																													
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45° 182	Total 1817 100%																																																																				
55° 84																																																																					
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Delivered Lumens: 1817
Luminaire Watts: 17.8
LER: 102.08

CP at 0° (Nadir): 1749
CRI: 80

Beam Angle: 64°
Spacing Ratio: 0.98

Lumen Multiplier: 10L x 0.34, 15L x 0.49, 20L x 0.67
CCT Multiplier: 27K x 0.95, 30K x 0.97, 40K x 1.03

HOW TO USE PERFORMANCE DATA

SINGLE UNIT	MULTIPLE UNITS
<p>Cone of Light of a single, symmetrical beam luminaire. Direct initial illumination (FC) and Beam Angle diameter directly beneath fixture; shown at different distances from aperture to horizontal plane. Calculated using Inverse Square Law.</p> <p>$FC_{H} = CP \times (\cos \theta) \div D^2$</p> <p>Beam Diam. = $\frac{1}{2}$ Beam Angle (Tan) x 2D</p> <ul style="list-style-type: none"> - CP Candela at 0° (Nadir) - Cos θ Cosine of θ Angle - D Distance (Mounting Height AFF) - FC_{H} Footcandles, Horizontal - Beam Angle Cone of light to 50% max. CP - Beam Diam. Pattern of light at Beam Angle 	<p>Square grid layout of multiple luminaires in unfurnished, square rooms of different proportions (Room Cavity Ratios) with 80/50/20% room surface reflectances. 2' Suspension Length to aperture. Initial average illumination (FC) calculated at 2.5' above floor, using Zonal Cavity Method. W/Sq. Ft. of layout shown for each ceiling height and RCR.</p> <p>Delivered Illuminance Rating (DIR®): System performance indicator expressed as ratio of approximate initial FC per W/Sq. Ft. delivered to horizontal plane below, for the range of ceiling heights indicated.</p> <ul style="list-style-type: none"> - To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio): $FC = \text{Chart Spacing}^2 \div \text{Different Spacing}^2 \times \text{Chart FC}$ - To estimate Sq. Ft. per fixture for a specific target FC: $\text{Sq. Ft.} / \text{Fixture} = \text{Chart FC} \times \text{Chart Spacing}^2 \div \text{Target FC}$ <ul style="list-style-type: none"> - To estimate Fixture Quantity in a room: $\text{Fixture Qty.} = \text{Sq. Ft. of Rm.} \div \text{Sq. Ft. per fixture}$ - To estimate Watts/Sq. Ft.: $W / \text{Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}$

CK0407PC 30L 35K ND xx SO xx MW

CANDLEPOWER CURVE TEST SP-01442_M-30L	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT																																																																												
	0°	0° - 10° 413 24%	<table border="1"> <thead> <tr> <th>Mounting Distance</th> <th>FC at Beam Center</th> <th>Diameter at Beam Angle</th> <th>FC at Beam Edge</th> </tr> </thead> <tbody> <tr><td>6.5'</td><td>127 fc</td><td>3.0'</td><td>59 fc</td></tr> <tr><td>7.5'</td><td>95 fc</td><td>3.4'</td><td>44 fc</td></tr> <tr><td>8.5'</td><td>74 fc</td><td>3.9'</td><td>34 fc</td></tr> <tr><td>10.0'</td><td>53 fc</td><td>4.6'</td><td>25 fc</td></tr> <tr><td>12.0'</td><td>37 fc</td><td>5.5'</td><td>17 fc</td></tr> <tr><td>14.0'</td><td>27 fc</td><td>6.4'</td><td>13 fc</td></tr> <tr><td>16.0'</td><td>21 fc</td><td>7.3'</td><td>10 fc</td></tr> <tr><td>20.0'</td><td>13 fc</td><td>9.1'</td><td>6 fc</td></tr> </tbody> </table>	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	6.5'	127 fc	3.0'	59 fc	7.5'	95 fc	3.4'	44 fc	8.5'	74 fc	3.9'	34 fc	10.0'	53 fc	4.6'	25 fc	12.0'	37 fc	5.5'	17 fc	14.0'	27 fc	6.4'	13 fc	16.0'	21 fc	7.3'	10 fc	20.0'	13 fc	9.1'	6 fc	<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>4'</td><td>84</td><td>0.93</td><td>77</td><td>0.94</td></tr> <tr><td>18'</td><td>5'</td><td>60</td><td>0.66</td><td>63</td><td>0.77</td></tr> <tr><td>22'</td><td>6'</td><td>48</td><td>0.53</td><td>39</td><td>0.47</td></tr> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">90 FC per W/Sq. Ft.</td> <td colspan="2">82 FC per W/Sq. Ft.</td> </tr> <tr> <td colspan="6"> 1' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 4: Length & Width = Ceiling Ht. - 3.5' x 2.50 RCR 6: Length & Width = Ceiling Ht. - 3.5' x 1.66 + Average Initial Footcandles at 2.5' Above Floor </td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 4		RCR 6		FC +	W/Sq. Ft.	FC +	W/Sq. Ft.	14'	4'	84	0.93	77	0.94	18'	5'	60	0.66	63	0.77	22'	6'	48	0.53	39	0.47	Delivered Illuminance Rating: (DIR)		90 FC per W/Sq. Ft.		82 FC per W/Sq. Ft.		1' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 4: Length & Width = Ceiling Ht. - 3.5' x 2.50 RCR 6: Length & Width = Ceiling Ht. - 3.5' x 1.66 + Average Initial Footcandles at 2.5' Above Floor					
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15° 2191	0° - 40° 1618 92%	0° - 60° 1708 97%																																																																														
25° 886	0° - 60° 1708 97%	0° - 80° 1737 99%																																																																														
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Delivered Lumens: 1752
Luminaire Watts: 17.8
LER: 98.43

CP at 0° (Nadir): 5349
CRI: 80

Beam Angle: 26°
Spacing Ratio: 0.43

Lumen Multiplier: 10L x 0.34, 15L x 0.49, 20L x 0.67
CCT Multiplier: 27K x 0.95, 30K x 0.97, 40K x 1.03

CK0407PC 30L 35K MD xx SO xx MW

CANDLEPOWER CURVE TEST SP-01440_M-30L	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT																																																																												
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55° 30	Total 1796 100%																																																																															
90° 2																																																																																

Delivered Lumens: 1796
Luminaire Watts: 17.8
LER: 100.90

CP at 0° (Nadir): 4564
CRI: 80

Beam Angle: 31°
Spacing Ratio: 0.50

Lumen Multiplier: 10L x 0.34, 15L x 0.49, 20L x 0.67
CCT Multiplier: 27K x 0.95, 30K x 0.97, 40K x 1.03

HOW TO USE PERFORMANCE DATA

SINGLE UNIT	MULTIPLE UNITS
<p>One of Light of a single, symmetrical beam luminaire. Direct initial illumination (FC) and Beam Angle diameter directly beneath fixture; shown at different distances from aperture to horizontal plane. Calculated using Inverse Square Law.</p> $FC_{H} = CP \times (\cos \theta) \div D^2$ <p>Beam Diam. = 1/2 Beam Angle (Tan) x 2D</p> <ul style="list-style-type: none"> • CP Candela at 0° (Nadir) • Cos θ Cosine of θ Angle • D Distance (Mounting Height AFF) • FC_H Footcandles, Horizontal • Beam Angle Cone of light to 50% max. CP • Beam Diam. Pattern of light at Beam Angle 	<p>Square grid layout of multiple luminaires in unfurnished, square rooms of different proportions (Room Cavity Ratios) with 80/50/20% room surface reflectances. 2' Suspension Length to aperture. Initial average illumination (FC) calculated at 2.5' above floor, using Zonal Cavity Method. W/Sq. Ft. of layout shown for each ceiling height and RCR.</p> <p>Delivered Illuminance Rating (DIR®): System performance indicator expressed as ratio of approximate initial FC per W/Sq. Ft. delivered to horizontal plane below, for the range of ceiling heights indicated.</p> <ul style="list-style-type: none"> • To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio): FC = Chart Spacing² ÷ Different Spacing² x Chart FC • To estimate FC, Sq. Ft. per fixture for a specific target FC: Sq. Ft. / Fixture = Chart FC x Chart Spacing² ÷ Target FC • To estimate Fixture Quantity in a room: Fixture Qty. = Sq. Ft. of Rm. ÷ Sq. Ft. per fixture • To estimate Watts/Sq. Ft.: W/ Sq. Ft. = Luminaire Watts x Qty. ÷ Sq. Ft. of Rm.

CKO407PC 30L 35K WD xx SO xx MW

CANDLEPOWER CURVE TEST SP-01444_M-30L	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT																																																																	
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55° 25	Total 1799 100%																																																																				
90° 2																																																																					

Delivered Lumens: 1799
Luminaire Watts: 17.8
LER: 101.07

CP at 0° (Nadir): 3478
CRI: 80

Beam Angle: 39°
Spacing Ratio: 0.61

Lumen Multiplier: 10L x 0.34, 15L x 0.49, 20L x 0.67
CCT Multiplier: 27K x 0.95, 30K x 0.97, 40K x 1.03

CKO407PC 30L 35K XW xx SO xx MW

CANDLEPOWER CURVE TEST SP-01446_M-30L	INTENSITY CANDELA 0° AZIMUTH	ZONAL LUMENS	SINGLE UNIT: PERFORMANCE HORIZONTAL FOOTCANDLES INITIAL DOWNLIGHT ONLY	MULTIPLE UNITS: PERFORMANCE 80/50/20% REFLECTANCES HORIZONTAL FOOTCANDLES AND WATTS/SQ FT																																																																	
	0°	0° - 10° 146 9%	<table border="1"> <thead> <tr> <th>Mounting Distance</th> <th>FC at Beam Center</th> <th>Diameter at Beam Angle</th> <th>FC at Beam Edge</th> </tr> </thead> <tbody> <tr><td>6.5'</td><td>37 fc</td><td>7.4'</td><td>12 fc</td></tr> <tr><td>7.5'</td><td>28 fc</td><td>8.6'</td><td>9 fc</td></tr> <tr><td>8.5'</td><td>22 fc</td><td>9.7'</td><td>7 fc</td></tr> <tr><td>10.0'</td><td>16 fc</td><td>11.4'</td><td>5 fc</td></tr> <tr><td>12.0'</td><td>11 fc</td><td>13.7'</td><td>4 fc</td></tr> <tr><td>14.0'</td><td>8 fc</td><td>16.0'</td><td>3 fc</td></tr> <tr><td>16.0'</td><td>6 fc</td><td>18.3'</td><td>2 fc</td></tr> <tr><td>20.0'</td><td>4 fc</td><td>22.9'</td><td>1 fc</td></tr> </tbody> </table>	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	6.5'	37 fc	7.4'	12 fc	7.5'	28 fc	8.6'	9 fc	8.5'	22 fc	9.7'	7 fc	10.0'	16 fc	11.4'	5 fc	12.0'	11 fc	13.7'	4 fc	14.0'	8 fc	16.0'	3 fc	16.0'	6 fc	18.3'	2 fc	20.0'	4 fc	22.9'	1 fc	<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>10'</td><td>6"</td><td>37</td><td>0.42</td><td>46</td><td>0.61</td></tr> <tr><td>14'</td><td>8'</td><td>20</td><td>0.23</td><td>18</td><td>0.23</td></tr> <tr><td>18'</td><td>10'</td><td>15</td><td>0.17</td><td>9</td><td>0.12</td></tr> </tbody> </table>		Ceiling Height	Fixture Spacing	RCR 2		RCR 4		FC +	W/Sq. Ft.	FC +	W/Sq. Ft.	10'	6"	37	0.42	46	0.61	14'	8'	20	0.23	18	0.23	18'	10'	15	0.17	9	0.12
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0° 1555	0° - 20° 526 33%	Delivered Illuminance Rating: (DIR)	88 FC per W/Sq. Ft.	76 FC per W/Sq. Ft.																																																																	
5° 1530	0° - 30° 992 62%	1' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 2: Length & Width = Ceiling Ht. - 3.5' x 5.00 RCR 4: Length & Width = Ceiling Ht. - 3.5' x 2.50 * Average Initial Footcandles at 2.5' Above Floor * Exceeds Spacing Ratio by 1%																																																																			
15° 1356	0° - 40° 1311 83%																																																																				
25° 1025	0° - 60° 1535 97%																																																																				
35° 516	0° - 80° 1572 99%																																																																				
45° 203	0° - 90° 1575 99%																																																																				
55° 83	Total 1588 100%																																																																				
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Delivered Lumens: 1588
Luminaire Watts: 17.8
LER: 89.21

CP at 0° (Nadir): 1555
CRI: 80

Beam Angle: 60°
Spacing Ratio: 0.91

Lumen Multiplier: 10L x 0.34, 15L x 0.49, 20L x 0.67
CCT Multiplier: 27K x 0.95, 30K x 0.97, 40K x 1.03

HOW TO USE PERFORMANCE DATA

SINGLE UNIT	MULTIPLE UNITS
<p>Cone of Light of a single, symmetrical beam luminaire. Direct initial illumination (FC) and Beam Angle diameter directly beneath fixture; shown at different distances from aperture to horizontal plane. Calculated using Inverse Square Law.</p> $FC_{H} = CP \times (\cos \theta) \div D^2$ <p>Beam Diam. = ½ Beam Angle (Tan) x 2D</p> <ul style="list-style-type: none"> - CP Candela at 0° (Nadir) - Cos θ Cosine of θ Angle - D Distance (Mounting Height AFF) - FC_H Footcandles, Horizontal - Beam Angle Cone of light to 50% max. CP - Beam Diam. Pattern of light at Beam Angle 	<p>Square grid layout of multiple luminaires in unfurnished, square rooms of different proportions (Room Cavity Ratios) with 80/50/20% room surface reflectances. 2' Suspension Length to aperture. Initial average illumination (FC) calculated at 2.5' above floor, using Zonal Cavity Method. W/Sq. Ft. of layout shown for each ceiling height and RCR.</p> <p>Delivered Illuminance Rating (DIR®): System performance indicator expressed as ratio of approximate initial FC per W/Sq. Ft. delivered to horizontal plane below, for the range of ceiling heights indicated.</p> <ul style="list-style-type: none"> - To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio): $FC = \text{Chart Spacing}^2 \div \text{Different Spacing}^2 \times \text{Chart FC}$ - To estimate Sq. Ft. per fixture for a specific target FC: $\text{Sq. Ft.} / \text{Fixture} = \text{Chart FC} \times \text{Chart Spacing}^2 \div \text{Target FC}$ <ul style="list-style-type: none"> - To estimate Fixture Quantity in a room: $\text{Fixture Qty.} = \text{Sq. Ft. of Rm.} \div \text{Sq. Ft. per fixture}$ - To estimate Watts/Sq. Ft.: $W / \text{Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}$

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

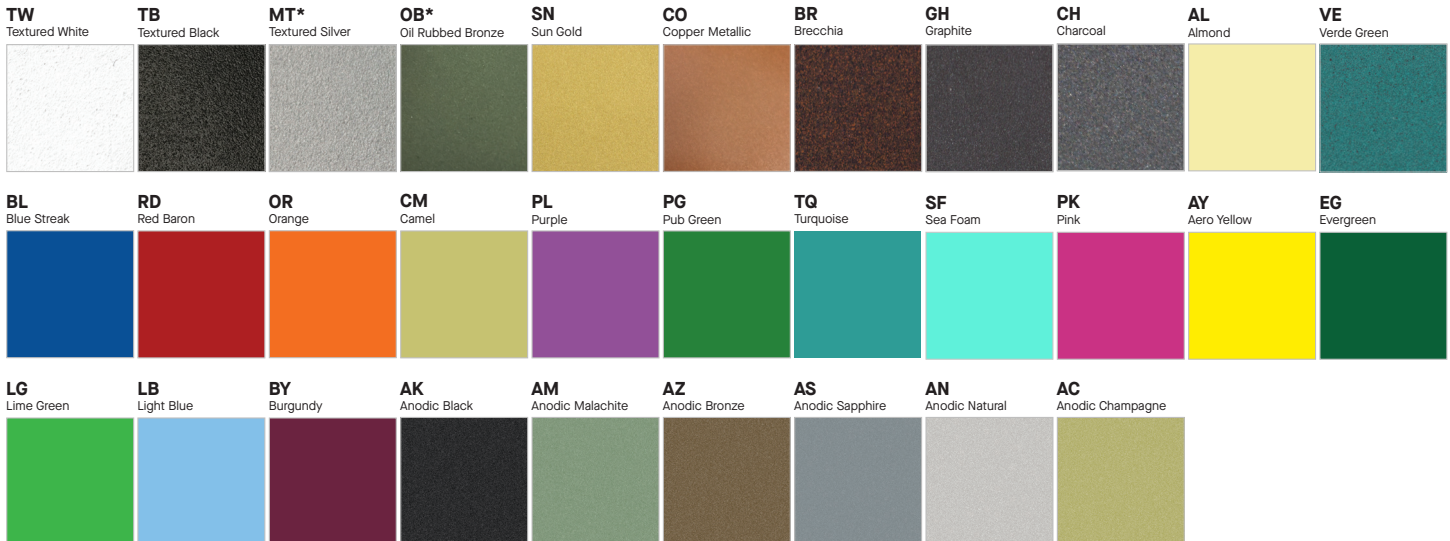
TIER	COST	AVERAGE PAINT TIME*
Tier 1 - Standard Finishes	\$	⌚
Tier 2 - Typical Finishes	\$\$	⌚⌚
Custom Color	Contact Factory	Contact Factory

*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