

CK0407SQPC

4" SQUARE DIRECT

4" square 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
CK0407SQPC10L	523	6.7	78
CK0407SQPC15L	694	9.5	73
CK0407SQPC20L	977	13.2	74
CK0407SQPC30L	1386	17.8	78

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
CK0407SQPC								
EXAMPLE								
CK0407SQPC	10L	35K	MD	EX	SO	CS2	MW	

SERIES	LUMENS ¹	CCT	OPTICS	DRIVER / VOLTAGE ⁴	LENS	MOUNTING ^{6/7}	FINISH ⁸	ACCESSORIES		
CK0407SQPC	10L	500 Lm	82 CRI	ND 25°	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	MW ⁹ Matte White MB ⁹ Matte Black PT ⁹ Platinum Silver CC Custom Color	EMRM 7W Remote EM EMEN 7W Remote with Enclosure		
	15L	700 Lm	27K 2700K						MD 31°	EX Electronic Driver, 120V/277V
	20L	1000 Lm	30K 3000K	WD 40°					DO10X ² 1%, 0-10V, 120V/277V	
	30L ^{2/3}	1400 Lm	35K 3500K	XW 56°					DS2W1 ³ ELV/MLV, 120V	
			40K 4000K						EXEM Electronic Driver, 120V/277V	
			27HK 2700K						DO10XEM 1%, 0-10V, 120V/277V	
			30HK 3000K						DS2W1EM ELV/MLV, 120V	
			35HK 3500K							
			40HK 4000K							
			92 CRI							

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

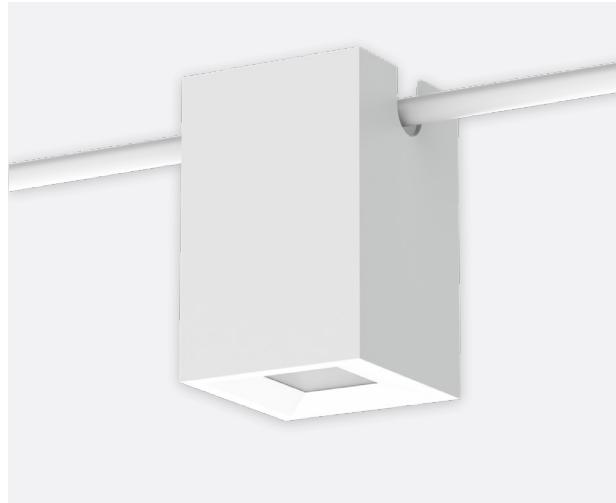
⁶ See Second Page for Details on Components and Patterns
⁷ Junction box and conduit by others

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

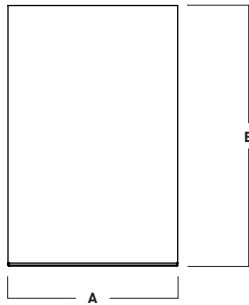


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PROJECT: _____
QUANTITY: _____ TYPE: _____







FIXTURE DIMENSIONS



A	B
4.5	71
114.3 mm	180.3 mm

Fixture Weight: 5.5 lbs

FINISH

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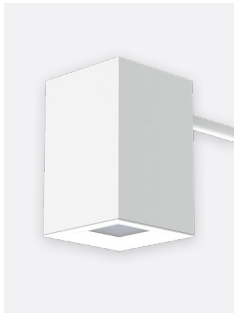
PAINT TIMES

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



CKO407SQPC 30L 35K ND xx NL xx MW

CANDLEPOWER CURVE TEST SP-01449_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° 331 24%	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>90</td> <td>1.27</td> <td>60</td> <td>0.94</td> </tr> <tr> <td>18'</td> <td>5'</td> <td>47</td> <td>0.66</td> <td>49</td> <td>0.77</td> </tr> <tr> <td>22'</td> <td>6'</td> <td>38</td> <td>0.53</td> <td>30</td> <td>0.47</td> </tr> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">71 FC per W/Sq. Ft.</td> <td colspan="2">64 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'	90	1.27	60	0.94	18'	5'	47	0.66	49	0.77	22'	6'	38	0.53	30	0.47	Delivered Illuminance Rating: (DIR)		71 FC per W/Sq. Ft.		64 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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	0° 4487	0° - 20° 806 58%	6.5'		106 fc	2.9'	50 fc																																					
	5° 3862	0° - 30° 1142 82%	7.5'		80 fc	3.3'	37 fc																																					
	15° 1810	0° - 40° 1255 91%	8.5'		62 fc	3.7'	29 fc																																					
25° 647	0° - 60° 1323 96%	10.0'	45 fc	4.4'	21 fc																																							
35° 97	0° - 80° 1367 99%	12.0'	31 fc	5.3'	15 fc																																							
45° 22	0° - 90° 1372 99%	14.0'	23 fc	6.1'	11 fc																																							
55° 52	Total 1384 100%	16.0'	18 fc	7.0'	8 fc																																							
90° 2		20.0'	11 fc	8.8'	5 fc																																							

Delivered Lumens: 1384
Luminaire Watts: 17.8
LER: 77.75

CP at 0° (Nadir): 4487
CRI: 80

Beam Angle: 25°
Spacing Ratio: 0.41

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

CKO407SQPC 30L 35K MD xx NL xx MW

CANDLEPOWER CURVE TEST SP-01447_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° 286 21%	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>5'</td> <td>45</td> <td>0.65</td> <td>34</td> <td>0.53</td> </tr> <tr> <td>18'</td> <td>6'</td> <td>34</td> <td>0.49</td> <td>31</td> <td>0.49</td> </tr> <tr> <td>22'</td> <td>7'</td> <td>21</td> <td>0.30</td> <td>19</td> <td>0.30</td> </tr> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">70 FC per W/Sq. Ft.</td> <td colspan="2">64 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'	5'	45	0.65	34	0.53	18'	6'	34	0.49	31	0.49	22'	7'	21	0.30	19	0.30	Delivered Illuminance Rating: (DIR)		70 FC per W/Sq. Ft.		64 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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	0° 3479	0° - 20° 771 56%	6.5'		82 fc	3.6'	37 fc																																					
	5° 3199	0° - 30° 1128 81%	7.5'		62 fc	4.2'	28 fc																																					
	15° 1816	0° - 40° 1257 91%	8.5'		48 fc	4.7'	22 fc																																					
25° 710	0° - 60° 1321 95%	10.0'	35 fc	5.6'	16 fc																																							
35° 108	0° - 80° 1370 99%	12.0'	24 fc	6.7'	11 fc																																							
45° 35	0° - 90° 1374 99%	14.0'	18 fc	7.8'	8 fc																																							
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90° 2		20.0'	9 fc	11.2'	4 fc																																							

Delivered Lumens: 1386
Luminaire Watts: 17.8
LER: 77.87

CP at 0° (Nadir): 3479
CRI: 80

Beam Angle: 31°
Spacing Ratio: 0.51

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.

CKO407SQPC 30L 35K WD xx NL xx MW

CANDLEPOWER CURVE TEST SP-01451_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° 2593	0° - 20° 726 52%	10.0' 26 fc	Delivered Illuminance Rating: (DIR)	75 FC per W/Sq. Ft.	67 FC per W/Sq. Ft.																																																																
5° 2485	0° - 30° 1139 81%	12.0' 18 fc	1' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 3: Length & Width = Ceiling Ht. - 3.5' x 3.33 RCR 5: Length & Width = Ceiling Ht. - 3.5' x 2.00 + Average Initial Footcandles at 2.5' Above Floor																																																																		
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25° 788	0° - 60° 1350 96%	16.0' 10 fc																																																																			
35° 110	0° - 80° 1389 99%	20.0' 6 fc																																																																			
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Delivered Lumens: 1404
Luminaire Watts: 17.8
LER: 78.88

CP at 0° (Nadir): 2593
CRI: 80

Beam Angle: 40°
Spacing Ratio: 0.65

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

CKO407SQPC 30L 35K XW xx NL xx MW

CANDLEPOWER CURVE TEST SP-01453_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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	10.0'	14 fc		10.7'	5 fc																																																																
	12.0'	9 fc		12.8'	3 fc																																																																
	14.0'	7 fc		15.0'	2 fc																																																																
	16.0'	5 fc		17.1'	2 fc																																																																
	20.0'	3 fc		21.4'	1 fc																																																																
	Ceiling Height	Fixture Spacing		RCR 2		RCR 4																																																															
FC +			W/Sq. Ft.	FC +	W/Sq. Ft.																																																																
10'	6"	34	0.42	42	0.61																																																																
14'	8"	19	0.23	16	0.23																																																																
18'	10"	13	0.17	8	0.12																																																																
0° 1365	0° - 20° 498 34%	10.0' 14 fc	Delivered Illuminance Rating: (DIR)	80 FC per W/Sq. Ft.	69 FC per W/Sq. Ft.																																																																
5° 1343	0° - 30° 946 65%	12.0' 9 fc	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° 1284	0° - 40° 1201 83%	14.0' 7 fc																																																																			
25° 894	0° - 60° 1399 96%	16.0' 5 fc																																																																			
35° 316	0° - 80° 1438 99%	20.0' 3 fc																																																																			
45° 159	0° - 90° 1441 99%	Total 1452 100%																																																																			
55° 82	90° 2																																																																				
1400 cd																																																																					

Delivered Lumens: 1452
Luminaire Watts: 17.8
LER: 81.57

CP at 0° (Nadir): 1365
CRI: 80

Beam Angle: 56°
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. = 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.: $W / \text{Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}$

CKO407SQPC 30L 35K ND xx SO xx MW

CANDLEPOWER CURVE TEST SP-01450_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° 264 21%	Mounting Distance	<table border="1"> <thead> <tr> <th>Ceiling Height</th> <th>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> <th>FC +</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>14'</td> <td>4'</td> <td>59</td> <td>0.93</td> <td>54</td> <td>0.94</td> </tr> <tr> <td>18'</td> <td>5'</td> <td>42</td> <td>0.66</td> <td>44</td> <td>0.77</td> </tr> <tr> <td>22'</td> <td>6'</td> <td>26</td> <td>0.41</td> <td>27</td> <td>0.47</td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 4		RCR 6		FC +	W/Sq. Ft.	FC +	W/Sq. Ft.	FC +	W/Sq. Ft.	14'	4'	59	0.93	54	0.94	18'	5'	42	0.66	44	0.77	22'	6'	26	0.41	27	0.47
	Ceiling Height	Fixture Spacing	RCR 4		RCR 6																													
	FC +	W/Sq. Ft.	FC +	W/Sq. Ft.	FC +	W/Sq. Ft.																												
	14'	4'	59	0.93	54	0.94																												
	18'	5'	42	0.66	44	0.77																												
	22'	6'	26	0.41	27	0.47																												
	0° 3322	0° - 20° 695 55%	6.5'	79 fc	3.3'	36 fc																												
	5° 3011	0° - 30° 990 78%	7.5'	59 fc	3.8'	27 fc																												
	15° 1539	0° - 40° 1113 88%	8.5'	46 fc	4.3'	21 fc																												
	25° 585	0° - 60° 1207 96%	10.0'	33 fc	5.0'	15 fc																												
	35° 134	0° - 80° 1249 99%	12.0'	23 fc	6.0'	11 fc																												
	45° 50	0° - 90° 1252 99%	14.0'	17 fc	7.0'	8 fc																												
55° 48	Total 1263 100%	16.0'	13 fc	8.0'	6 fc																													
90° 2		20.0'	8 fc	10.0'	4 fc																													
Delivered Illuminance Rating: (DIR)		64 FC per W/Sq. Ft.		57 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: 1263
Luminaire Watts: 17.8
LER: 70.96

CP at 0° (Nadir): 3322
CRI: 80

Beam Angle: 28°
Spacing Ratio: 0.46

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

CKO407SQPC 30L 35K MD xx SO xx MW

CANDLEPOWER CURVE TEST SP-01448_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° 230 19%	Mounting Distance	<table border="1"> <thead> <tr> <th>Ceiling Height</th> <th>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> <th>FC +</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr> <td>14'</td> <td>5'</td> <td>40</td> <td>0.65</td> <td>30</td> <td>0.53</td> </tr> <tr> <td>18'</td> <td>6'</td> <td>30</td> <td>0.49</td> <td>28</td> <td>0.49</td> </tr> <tr> <td>22'</td> <td>7'</td> <td>19</td> <td>0.30</td> <td>17</td> <td>0.30</td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 4		RCR 6		FC +	W/Sq. Ft.	FC +	W/Sq. Ft.	FC +	W/Sq. Ft.	14'	5'	40	0.65	30	0.53	18'	6'	30	0.49	28	0.49	22'	7'	19	0.30	17	0.30
	Ceiling Height	Fixture Spacing	RCR 4		RCR 6																													
	FC +	W/Sq. Ft.	FC +	W/Sq. Ft.	FC +	W/Sq. Ft.																												
	14'	5'	40	0.65	30	0.53																												
	18'	6'	30	0.49	28	0.49																												
	22'	7'	19	0.30	17	0.30																												
	0° 2722	0° - 20° 654 53%	6.5'	64 fc	3.9'	28 fc																												
	5° 2550	0° - 30° 964 78%	7.5'	48 fc	4.5'	21 fc																												
	15° 1518	0° - 40° 1098 88%	8.5'	38 fc	5.1'	17 fc																												
	25° 630	0° - 60° 1187 96%	10.0'	27 fc	5.9'	12 fc																												
	35° 156	0° - 80° 1225 99%	12.0'	19 fc	7.1'	8 fc																												
	45° 52	0° - 90° 1229 99%	14.0'	14 fc	8.3'	6 fc																												
55° 37	Total 1241 100%	16.0'	11 fc	9.5'	5 fc																													
90° 2		20.0'	7 fc	11.9'	3 fc																													
Delivered Illuminance Rating: (DIR)		62 FC per W/Sq. Ft.		56 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: 1241
Luminaire Watts: 17.8
LER: 69.72

CP at 0° (Nadir): 2722
CRI: 80

Beam Angle: 33°
Spacing Ratio: 0.54

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.

CKO407SQPC 30L 35K WD xx SO xx MW

CANDLEPOWER CURVE TEST SP-01452_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° 198 16%	<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>52 fc</td><td>4.8'</td><td>21 fc</td></tr> <tr><td>7.5'</td><td>39 fc</td><td>5.6'</td><td>16 fc</td></tr> <tr><td>8.5'</td><td>30 fc</td><td>6.3'</td><td>13 fc</td></tr> <tr><td>10.0'</td><td>22 fc</td><td>7.4'</td><td>9 fc</td></tr> <tr><td>12.0'</td><td>15 fc</td><td>8.9'</td><td>6 fc</td></tr> <tr><td>14.0'</td><td>11 fc</td><td>10.4'</td><td>5 fc</td></tr> <tr><td>16.0'</td><td>9 fc</td><td>11.9'</td><td>4 fc</td></tr> <tr><td>20.0'</td><td>6 fc</td><td>14.8'</td><td>2 fc</td></tr> </tbody> </table>	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	6.5'	52 fc	4.8'	21 fc	7.5'	39 fc	5.6'	16 fc	8.5'	30 fc	6.3'	13 fc	10.0'	22 fc	7.4'	9 fc	12.0'	15 fc	8.9'	6 fc	14.0'	11 fc	10.4'	5 fc	16.0'	9 fc	11.9'	4 fc	20.0'	6 fc	14.8'	2 fc	<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>10'</td><td>4'</td><td>64</td><td>0.95</td><td>56</td><td>0.95</td></tr> <tr><td>14'</td><td>6'</td><td>35</td><td>0.52</td><td>22</td><td>0.36</td></tr> <tr><td>18'</td><td>8'</td><td>18</td><td>0.27</td><td>20</td><td>0.34</td></tr> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">67 FC per W/Sq. Ft.</td> <td colspan="2">60 FC per W/Sq. Ft.</td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 3		RCR 5		FC +	W/Sq. Ft.	FC +	W/Sq. Ft.	10'	4'	64	0.95	56	0.95	14'	6'	35	0.52	22	0.36	18'	8'	18	0.27	20	0.34	Delivered Illuminance Rating: (DIR)		67 FC per W/Sq. Ft.		60 FC per W/Sq. Ft.	
	Mounting Distance	FC at Beam Center		Diameter at Beam Angle	FC at Beam Edge																																																																					
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Delivered Illuminance Rating: (DIR)		67 FC per W/Sq. Ft.		60 FC per W/Sq. Ft.																																																																						
0° 2202	0° - 20° 625 49%	0° - 30° 975 77%	10.0'	22 fc	7.4'	9 fc	<p>1' Suspension Length to luminous aperture Square rooms used for multiple units: RCR 3: Length & Width = Ceiling Ht. - 3.5' x 3.33 RCR 5: Length & Width = Ceiling Ht. - 3.5' x 2.00 + Average Initial Footcandles at 2.5' Above Floor</p>																																																																			
5° 2139	0° - 40° 1123 89%	0° - 60° 1211 96%	12.0'	15 fc	8.9'	6 fc																																																																				
15° 1579	0° - 80° 1247 99%	0° - 90° 1251 99%	14.0'	11 fc	10.4'	5 fc																																																																				
25° 683	Total 1264 100%		16.0'	9 fc	11.9'	4 fc																																																																				
35° 159			20.0'	6 fc	14.8'	2 fc																																																																				
45° 54																																																																										
55° 33																																																																										
90° 2																																																																										

Delivered Lumens: 1264
Luminaire Watts: 17.8
LER: 71.01

CP at 0° (Nadir): 2202
CRI: 80

Beam Angle: 41°
Spacing Ratio: 0.66

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

CKO407SQPC 30L 35K XW xx SO xx MW

CANDLEPOWER CURVE TEST SP-01454_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° 121 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>30 fc</td><td>6.7'</td><td>11 fc</td></tr> <tr><td>7.5'</td><td>22 fc</td><td>7.7'</td><td>8 fc</td></tr> <tr><td>8.5'</td><td>17 fc</td><td>8.7'</td><td>6 fc</td></tr> <tr><td>10.0'</td><td>13 fc</td><td>10.3'</td><td>4 fc</td></tr> <tr><td>12.0'</td><td>9 fc</td><td>12.3'</td><td>3 fc</td></tr> <tr><td>14.0'</td><td>6 fc</td><td>14.4'</td><td>2 fc</td></tr> <tr><td>16.0'</td><td>5 fc</td><td>16.4'</td><td>2 fc</td></tr> <tr><td>20.0'</td><td>3 fc</td><td>20.5'</td><td>1 fc</td></tr> </tbody> </table>	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	6.5'	30 fc	6.7'	11 fc	7.5'	22 fc	7.7'	8 fc	8.5'	17 fc	8.7'	6 fc	10.0'	13 fc	10.3'	4 fc	12.0'	9 fc	12.3'	3 fc	14.0'	6 fc	14.4'	2 fc	16.0'	5 fc	16.4'	2 fc	20.0'	3 fc	20.5'	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>30</td><td>0.42</td><td>37</td><td>0.61</td></tr> <tr><td>14'</td><td>8'</td><td>17</td><td>0.23</td><td>14</td><td>0.23</td></tr> <tr><td>18'</td><td>10'</td><td>12</td><td>0.17</td><td>7</td><td>0.12</td></tr> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">71 FC per W/Sq. Ft.</td> <td colspan="2">61 FC per W/Sq. Ft.</td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		FC +	W/Sq. Ft.	FC +	W/Sq. Ft.	10'	6'	30	0.42	37	0.61	14'	8'	17	0.23	14	0.23	18'	10'	12	0.17	7	0.12	Delivered Illuminance Rating: (DIR)		71 FC per W/Sq. Ft.		61 FC per W/Sq. Ft.	
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18'	10'	12	0.17	7	0.12																																																																					
Delivered Illuminance Rating: (DIR)		71 FC per W/Sq. Ft.		61 FC per W/Sq. Ft.																																																																						
0° 1260	0° - 20° 445 35%	0° - 30° 811 63%	10.0'	13 fc	10.3'	4 fc	<p>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 6%</p>																																																																			
5° 1251	0° - 40° 1045 81%	0° - 60° 1234 96%	12.0'	9 fc	12.3'	3 fc																																																																				
15° 1153	0° - 80° 1273 99%	0° - 90° 1277 99%	14.0'	6 fc	14.4'	2 fc																																																																				
25° 749	Total 1290 100%		16.0'	5 fc	16.4'	2 fc																																																																				
35° 320			20.0'	3 fc	20.5'	1 fc																																																																				
45° 153																																																																										
55° 72																																																																										
90° 2																																																																										

Delivered Lumens: 1290
Luminaire Watts: 17.8
LER: 72.47

CP at 0° (Nadir): 1260
CRI: 80

Beam Angle: 54°
Spacing Ratio: 0.87

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. = 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.: $W / \text{Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}$

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

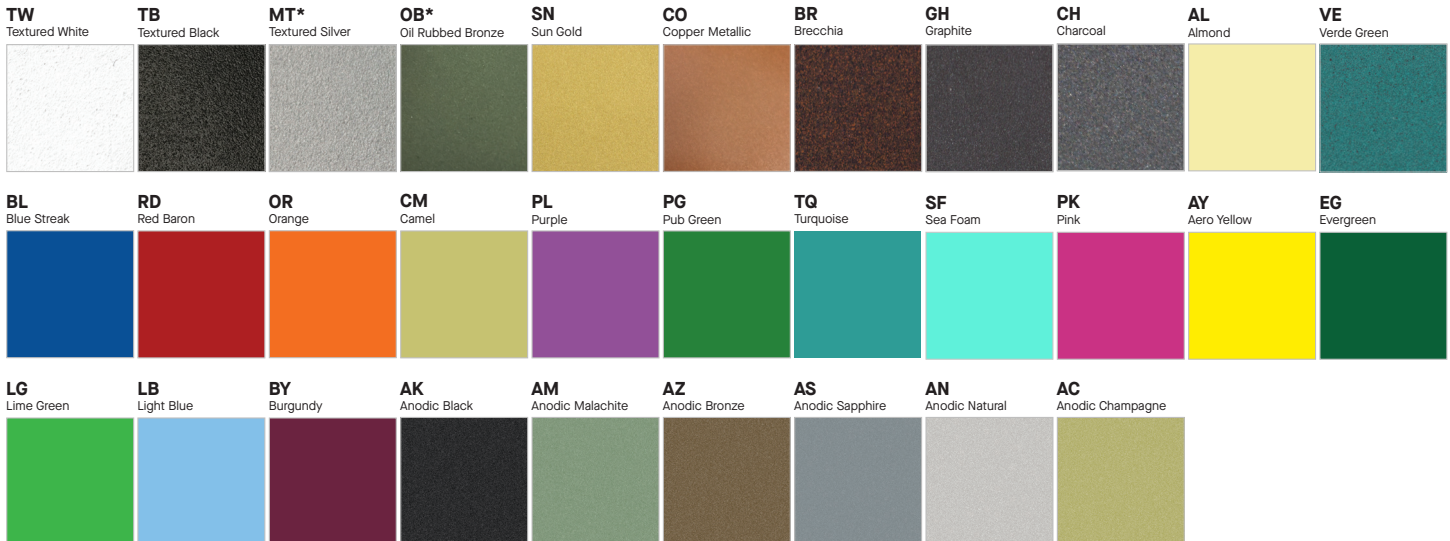
TIER	COST	AVERAGE PAINT TIME*
Tier 1 - Standard Finishes	\$	⌚
Tier 2 - Typical Finishes	\$\$	⌚⌚
Custom Color	Contact Factory	Contact Factory

*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