

# SDT3PC

## 3" DUAL SPOT AIM LUMINAIRE

Dual 3" Round Euro series is our workhorse trackhead for accent lighting with up to 2700 lumens.

### LUMENS / WATTAGE DATA

PART NUMBER	SOURCE LUMENS <sup>1</sup>	DELIVERED LUMENS <sup>2</sup>	SYSTEM WATTS	LPW
SDT3PC10L	1000	598	8.3	72
SDT3PC20L	2000	1251	17.1	73
SDT3PC30L	3000	1955	22	89
SDT3PC40L	4000	2679	30.4	88

<sup>1</sup> Nominal Source Lumens at 35K <sup>2</sup> Nominal Delivered Lumens at 80 CRI with PC40L 35K MD XX NL

### FEATURES

Die-cast passive cooled LED tracklight with a wide variety of options. Track light accepts up to two accessories. Reflector and accessories are easily changed. Zhaga international standard LED module for fixture maintenance and upgrades. Precision aiming featuring 350° rotation and 90° head tilt, optimizing a high-tension friction locking mechanism.

### FINISH

Multi-stage polyester powder-coat process applied on our dedicated paint lines. A wide variety of standard and custom finishes are available. All exposed materials are chromate pretreated to resist corrosion.

### CONSTRUCTION

Fixture is fabricated from die-cast, extruded and machined aluminum.

### ELECTRONICS

LED module features state of the art, high efficiency LEDs. 3-step MacAdam Ellipse binning with 80 and 90 CRI available. DS2W1 phase cut driver dims smooth to 1% . 0-10V 1% 120V and 277V options.

### CODE COMPLIANCE

BAA Compliant. ETL Listed for dry location. Manufactured and tested to UL Standard No. 1574.

### WARRANTY

5 year warranty is Standard. L70 > 60,000 hours.

## PRODUCT SELECTOR GUIDE

SERIES	LUMENS <sup>1</sup>	CCT	OPTICS	DRIVER / VOLTAGE	MOUNTING	FINISH	ACCESSORIES
SDT3PC							

### EXAMPLE

SDT3PC	20L	35K	MD	DX	CP13PM36	MW	2XHL3A
--------	-----	-----	----	----	----------	----	--------

SERIES	LUMENS <sup>1</sup>	CCT	OPTICS	DRIVER / VOLTAGE	MOUNTING	FINISH <sup>3</sup>	ACCESSORIES <sup>5</sup>	
SDT3PC	80 CRI		ND 19° MD 36° WD 43° XW 62°	DX Electronic Driver 1%, 0-10V, 120V/277V	CP13PM(xx) <sup>2</sup> 7" Round Driver Canopy/Compartment with Pendant	MW <sup>4</sup> Matte White MB <sup>4</sup> Matte Black PT <sup>4</sup> Platinum Silver CC Custom Color	ORDER SEPARATELY	
	10L 600 Lm	27K 2700K					2XLN3ASO Solite Diffuse Lens	
	20L 1250 Lm	30K 3000K		2XLN3AFG Frosted Lens				
	30L 2000 Lm	35K 3500K		2XLN3ASK Skytux Linear Lens				
	40L 2700 Lm	40K 4000K		2XLN3AGL Clear Lens				
	90 CRI			DS2W1 ELV/ TRIAC Phase Cut Dimming, 120V			2XSN3A <sup>6</sup> Snoot	
	10L 600 Lm	27HK 2700K					2XHL3A <sup>6</sup> Hex Louver	
	20L 1250 Lm	30HK 3000K						
	30L 2000 Lm	35HK 3500K						
	40L 2700 Lm	40HK 4000K						
1 Nominal Delivered Lumens at 35K					2 Specify Length in Inches: See Mounting Page for Available Lengths		5 Track Light Accepts up to Two Accessories per Head 6 Only Available in Flat Black	

PROJECT: \_\_\_\_\_

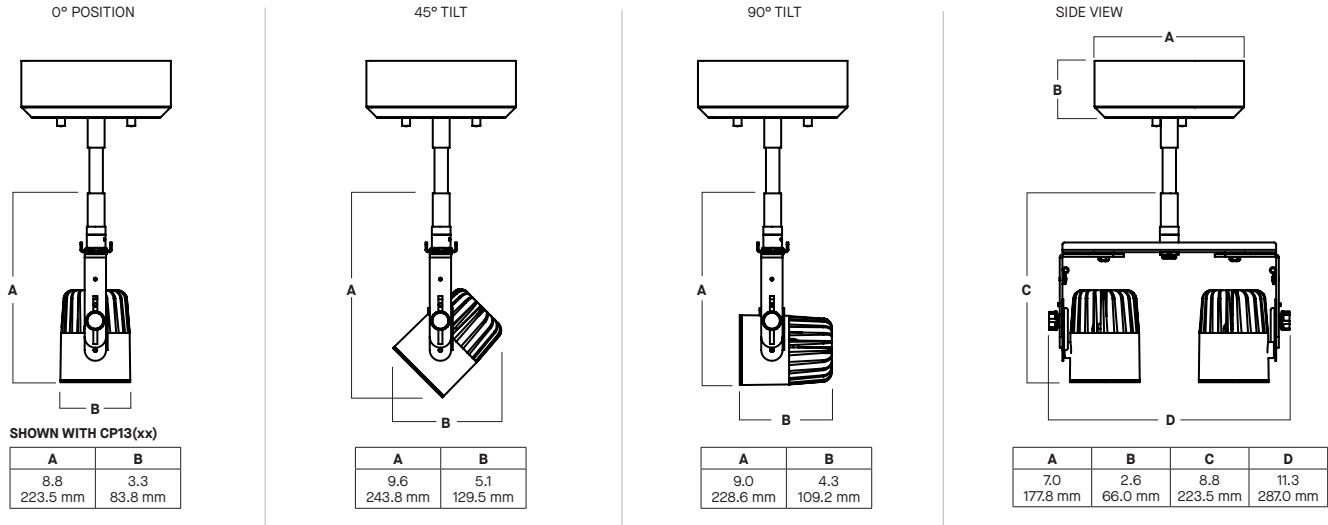
QUANTITY: \_\_\_\_\_

TYPE: \_\_\_\_\_

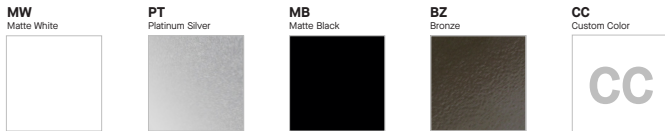


COPYRIGHT 2022 SPECTRUM LIGHTING, INC.

### FIXTURE DIMENSIONS



### FINISH



### PAINT TIMES

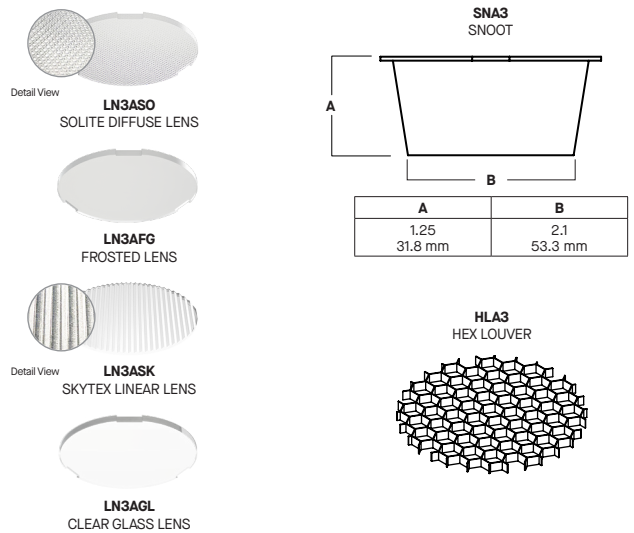
TIER	COST	AVERAGE PAINT TIME*
Tier 1 - Standard Finishes	\$	⌚
Custom Color	Contact Factory	Contact Factory

\*CONTACT FACTORY FOR SPECIFIC PRODUCT LEAD TIMES

### STANDARD PRODUCT FINISHES

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

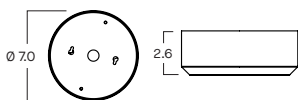
### FIXTURE ACCESSORIES



### DRIVER CANOPY OPTIONS

#### CP13PM

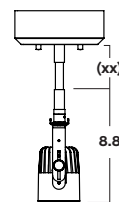
7" Round Driver Canopy (Standard)



### MOUNTING TYPES

#### CP13PMxx

Rigid Pendant Mount  
RIGID 5/8" OD STEM - 3/8" IP



ORDER: **PM** (Length)  
SPECIFY LENGTH:  
**PM3** - 3"    **PM24** - 24"  
**PM6** - 6"    **PM36** - 36"  
**PM12** - 12"    **PM48** - 48"  
**PM18** - 18"    **PM72** - 72"  
**PMLC(XX)**  
 Custom Length  
 (Specify in Inches)

\*MAXIMUM ONE PIECE STEM LENGTH IS 72".  
LONGER LENGTHS ARE POSSIBLE USING MULTIPLE STEMS AND COUPLERS.

SDT3PC 40L 35K ND XX NL

CANDLEPOWER CURVE TEST SP-00596_21	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								
			Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 4		RCR 6				
	0°	12504	0° - 10°	865	28%	8'	195 fc	3.0'	93 fc	18'	4'	180	1.87	166	1.88
	5°	10590	0° - 20°	1913	62%	10'	125 fc	3.7'	59 fc	22'	5'	111	1.15	102	1.16
	15°	3623	0° - 30°	2640	85%	12'	87 fc	4.5'	41 fc	26'	6'	75	0.78	69	0.78
	25°	1490	0° - 40°	3048	98%	14'	64 fc	5.2'	30 fc	Delivered Illuminance Rating: (DIR)		96 FC per W/Sq. Ft.		88 FC per W/Sq. Ft.	
	35°	657	0° - 60°	3084	100%	16'	49 fc	6.0'	23 fc	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					
	45°	21	0° - 80°	3094	100%	20'	31 fc	7.5'	15 fc						
	55°	5	0° - 90°	3097	100%	24'	22 fc	9.0'	10 fc						
	90°	0	Total	3097	100%	28'	16 fc	10.4'	8 fc						

Delivered Lumens: 3097  
Luminaire Watts: 30.3  
LER: 102.21

CP at 0° (Nadir): 12504  
CRI: 80+

Beam Angle: 21°  
Spacing Ratio: 0.35

Lumen Multiplier: 20L x 0.47, 30L x 0.73  
CCT Multiplier: 27K x 0.96, 30K x 0.99, 40K x 1.04

SDT3PC 40L 35K MD XX NL

CANDLEPOWER CURVE TEST SP-00596_15_M-40L	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								
			Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5				
	0°	8725	0° - 10°	716	27%	8'	136 fc	3.9'	62 fc	18'	6'	72	0.83	71	0.90
	5°	8108	0° - 20°	1766	66%	10'	87 fc	4.9'	40 fc	22'	7'	56	0.65	44	0.56
	15°	3742	0° - 30°	2371	89%	12'	61 fc	5.9'	28 fc	26'	8'	38	0.44	30	0.38
	25°	1354	0° - 40°	2528	94%	14'	45 fc	6.9'	20 fc	Delivered Illuminance Rating: (DIR)		86 FC per W/Sq. Ft.		79 FC per W/Sq. Ft.	
	35°	247	0° - 60°	2596	97%	16'	34 fc	7.9'	16 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					
	45°	50	0° - 80°	2670	100%	20'	22 fc	9.9'	10 fc						
	55°	37	0° - 90°	2679	100%	24'	15 fc	11.8'	7 fc						
	90°	1	Total	2679	100%	28'	11 fc	13.8'	5 fc						

Delivered Lumens: 2679  
Luminaire Watts: 30.4  
LER: 88.13

CP at 0° (Nadir): 8725  
CRI: 80+

Beam Angle: 28°  
Spacing Ratio: 0.46

Lumen Multiplier: 20L x 0.47, 30L x 0.73  
CCT Multiplier: 27K x 0.96, 30K x 0.99, 40K x 1.04

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"> <li>• CP Candela at 0° (Nadir)</li> <li>• Cos θ Cosine of θ Angle</li> <li>• D Distance (Mounting Height AFF)</li> <li>• FC<sub>H</sub> Footcandles, Horizontal</li> <li>• Beam Angle Cone of light to 50% max. CP</li> <li>• Beam Diam. Pattern of light at Beam Angle</li> </ul>	<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"> <li>• To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio): <math>FC = \text{Chart Spacing}^2 \div \text{Different Spacing}^2 \times \text{Chart FC}</math></li> <li>• To estimate Sq. Ft. per fixture for a specific target FC: <math>\text{Sq. Ft.} / \text{Fixture} = \text{Chart FC} \times \text{Chart Spacing}^2 \div \text{Target FC}</math></li> <li>• To estimate Fixture Quantity in a room: <math>\text{Fixture Qty.} = \text{Sq. Ft. of Rm.} \div \text{Sq. Ft. per fixture}</math></li> <li>• To estimate Watts/Sq. Ft.: <math>\text{W/Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}</math></li> </ul>

SDT3PC 40L 35K WD XX NL

CANDLEPOWER CURVE TEST SP-00596_16_M-40L	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° 561 20%	<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>8'</td><td>100 fc</td><td>5.4'</td><td>42 fc</td></tr> <tr><td>10'</td><td>64 fc</td><td>6.7'</td><td>27 fc</td></tr> <tr><td>12'</td><td>44 fc</td><td>8.1'</td><td>19 fc</td></tr> <tr><td>14'</td><td>33 fc</td><td>9.4'</td><td>14 fc</td></tr> <tr><td>16'</td><td>25 fc</td><td>10.8'</td><td>11 fc</td></tr> <tr><td>20'</td><td>16 fc</td><td>13.5'</td><td>7 fc</td></tr> <tr><td>24'</td><td>11 fc</td><td>16.2'</td><td>5 fc</td></tr> <tr><td>28'</td><td>8 fc</td><td>18.9'</td><td>3 fc</td></tr> </tbody> </table>	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	8'	100 fc	5.4'	42 fc	10'	64 fc	6.7'	27 fc	12'	44 fc	8.1'	19 fc	14'	33 fc	9.4'	14 fc	16'	25 fc	10.8'	11 fc	20'	16 fc	13.5'	7 fc	24'	11 fc	16.2'	5 fc	28'	8 fc	18.9'	3 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>14'</td><td>6'</td><td>83</td><td>0.89</td><td>59</td><td>0.71</td></tr> <tr><td>18'</td><td>8'</td><td>43</td><td>0.47</td><td>31</td><td>0.37</td></tr> <tr><td>22'</td><td>10'</td><td>27</td><td>0.29</td><td>30</td><td>0.36</td></tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	14'	6'	83	0.89	59	0.71	18'	8'	43	0.47	31	0.37	22'	10'	27	0.29	30	0.36
	Mounting Distance	FC at Beam Center		Diameter at Beam Angle	FC at Beam Edge																																																															
	8'	100 fc		5.4'	42 fc																																																															
	10'	64 fc		6.7'	27 fc																																																															
	12'	44 fc		8.1'	19 fc																																																															
	14'	33 fc		9.4'	14 fc																																																															
	16'	25 fc		10.8'	11 fc																																																															
	20'	16 fc		13.5'	7 fc																																																															
	24'	11 fc		16.2'	5 fc																																																															
	28'	8 fc		18.9'	3 fc																																																															
	Ceiling Height	Fixture Spacing		RCR 2		RCR 4																																																														
				FC *	W/Sq. Ft.	FC *	W/Sq. Ft.																																																													
14'	6'	83	0.89	59	0.71																																																															
18'	8'	43	0.47	31	0.37																																																															
22'	10'	27	0.29	30	0.36																																																															
0° 6396	0° - 20° 1664 60%	8' 100 fc 5.4' 42 fc	14' 6' 83 0.89 59 0.71																																																																	
5° 6150	0° - 30° 2426 88%	10' 64 fc 6.7' 27 fc	18' 8' 43 0.47 31 0.37																																																																	
15° 4130	0° - 40° 2599 94%	12' 44 fc 8.1' 19 fc	22' 10' 27 0.29 30 0.36																																																																	
25° 1713	0° - 60° 2676 97%	14' 33 fc 9.4' 14 fc	Delivered Illuminance Rating: (DIR)																																																																	
35° 274	0° - 80° 2742 100%	16' 25 fc 10.8' 11 fc		93 FC per W/Sq. Ft. 84 FC per W/Sq. Ft.																																																																
45° 54	0° - 90° 2751 100%	20' 16 fc 13.5' 7 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																																																																	
55° 42	Total 2751 100%	24' 11 fc 16.2' 5 fc																																																																		
90° 1		28' 8 fc 18.9' 3 fc																																																																		

Delivered Lumens: 2751  
Luminaire Watts: 30.4  
LER: 90.49

CP at 0° (Nadir): 6396  
CRI: 80+

Beam Angle: 37°  
Spacing Ratio: 0.60

Lumen Multiplier: 20L x 0.47, 30L x 0.73  
CCT Multiplier: 27K x 0.96, 30K x 0.99, 40K x 1.04

SDT3PC 40L 35K XW XX NL

CANDLEPOWER CURVE TEST SP-00596_23	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° 273 10%	<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>8'</td><td>46 fc</td><td>9.8'</td><td>14 fc</td></tr> <tr><td>10'</td><td>29 fc</td><td>12.2'</td><td>9 fc</td></tr> <tr><td>12'</td><td>20 fc</td><td>14.6'</td><td>6 fc</td></tr> <tr><td>14'</td><td>15 fc</td><td>17.1'</td><td>5 fc</td></tr> <tr><td>16'</td><td>11 fc</td><td>19.5'</td><td>4 fc</td></tr> <tr><td>20'</td><td>7 fc</td><td>24.4'</td><td>2 fc</td></tr> <tr><td>24'</td><td>5 fc</td><td>29.3'</td><td>2 fc</td></tr> <tr><td>28'</td><td>4 fc</td><td>34.2'</td><td>1 fc</td></tr> </tbody> </table>	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	8'	46 fc	9.8'	14 fc	10'	29 fc	12.2'	9 fc	12'	20 fc	14.6'	6 fc	14'	15 fc	17.1'	5 fc	16'	11 fc	19.5'	4 fc	20'	7 fc	24.4'	2 fc	24'	5 fc	29.3'	2 fc	28'	4 fc	34.2'	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>14'</td><td>8'</td><td>36</td><td>0.40</td><td>32</td><td>0.40</td></tr> <tr><td>18'</td><td>10'</td><td>26</td><td>0.28</td><td>17</td><td>0.21</td></tr> <tr><td>22'</td><td>12'</td><td>16</td><td>0.17</td><td>18</td><td>0.23</td></tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	14'	8'	36	0.40	32	0.40	18'	10'	26	0.28	17	0.21	22'	12'	16	0.17	18	0.23
	Mounting Distance	FC at Beam Center		Diameter at Beam Angle	FC at Beam Edge																																																															
	8'	46 fc		9.8'	14 fc																																																															
	10'	29 fc		12.2'	9 fc																																																															
	12'	20 fc		14.6'	6 fc																																																															
	14'	15 fc		17.1'	5 fc																																																															
	16'	11 fc		19.5'	4 fc																																																															
	20'	7 fc		24.4'	2 fc																																																															
	24'	5 fc		29.3'	2 fc																																																															
	28'	4 fc		34.2'	1 fc																																																															
	Ceiling Height	Fixture Spacing		RCR 2		RCR 4																																																														
				FC *	W/Sq. Ft.	FC *	W/Sq. Ft.																																																													
14'	8'	36	0.40	32	0.40																																																															
18'	10'	26	0.28	17	0.21																																																															
22'	12'	16	0.17	18	0.23																																																															
0° 2925	0° - 20° 973 35%	8' 46 fc 9.8' 14 fc	14' 8' 36 0.40 32 0.40																																																																	
5° 2842	0° - 30° 1889 68%	10' 29 fc 12.2' 9 fc	18' 10' 26 0.28 17 0.21																																																																	
15° 2451	0° - 40° 2515 90%	12' 20 fc 14.6' 6 fc	22' 12' 16 0.17 18 0.23																																																																	
25° 1994	0° - 60° 2762 99%	14' 15 fc 17.1' 5 fc	Delivered Illuminance Rating: (DIR)																																																																	
35° 1009	0° - 80° 2787 100%	16' 11 fc 19.5' 4 fc		92 FC per W/Sq. Ft. 80 FC per W/Sq. Ft.																																																																
45° 221	0° - 90° 2789 100%	20' 7 fc 24.4' 2 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																																																																	
55° 81	Total 2789 100%	24' 5 fc 29.3' 2 fc																																																																		
90° 0		28' 4 fc 34.2' 1 fc																																																																		

Delivered Lumens: 2789  
Luminaire Watts: 30.3  
LER: 92.05

CP at 0° (Nadir): 2925  
CRI: 80+

Beam Angle: 63°  
Spacing Ratio: 0.94

Lumen Multiplier: 20L x 0.47, 30L x 0.73  
CCT Multiplier: 27K x 0.96, 30K x 0.99, 40K x 1.04

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"> <li>• CP Candela at 0° (Nadir)</li> <li>• Cos θ Cosine of θ Angle</li> <li>• D Distance (Mounting Height AFF)</li> <li>• FC<sub>H</sub> Footcandles, Horizontal</li> <li>• Beam Angle Cone of light to 50% max. CP</li> <li>• Beam Diam. Pattern of light at Beam Angle</li> </ul>	<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"> <li>- To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio): <math>FC = \text{Chart Spacing}^2 \div \text{Different Spacing}^2 \times \text{Chart FC}</math></li> <li>- To estimate Sq. Ft. per fixture for a specific target FC: <math>\text{Sq. Ft.} / \text{Fixture} = \text{Chart FC} \times \text{Chart Spacing}^2 \div \text{Target FC}</math></li> </ul> <ul style="list-style-type: none"> <li>- To estimate Fixture Quantity in a room: <math>\text{Fixture Qty.} = \text{Sq. Ft. of Rm.} \div \text{Sq. Ft. per fixture}</math></li> <li>- To estimate Watts/Sq. Ft.: <math>\text{W/Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}</math></li> </ul>

SDT3PC 40L 30HK ND xx xx MW NL

CANDLEPOWER CURVE TEST SP-01456_2	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							
			Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 4		RCR 6			
	0°	0° - 10°	765	28%	8'	160 fc	3.3'	75 fc	18'	4'	158	2.16	146	2.17
	0°	0° - 20°	1764	64%	10'	103 fc	4.1'	48 fc	22'	5'	97	1.33	89	1.34
	5°	0° - 30°	2371	85%	12'	71 fc	5.0'	33 fc	26'	6'	65	0.90	60	0.90
	15°	0° - 40°	2547	92%	14'	52 fc	5.8'	25 fc	Delivered Illuminance Rating: (DIR)		73 FC per W/Sq. Ft.		67 FC per W/Sq. Ft.	
	25°	0° - 60°	2636	95%	16'	40 fc	6.6'	19 fc	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					
	35°	0° - 80°	2746	99%	20'	26 fc	8.3'	12 fc						
	45°	0° - 90°	2762	100%	24'	18 fc	9.9'	8 fc						
	55°	0° - 90°	2762	100%	28'	13 fc	11.6'	6 fc						
	90°	Total	2775	100%										

Delivered Lumens: 2775  
Luminaire Watts: 35  
LER: 79.29

CP at 0° (Nadir): 10253  
CRI: 90

Beam Angle: 23°  
Spacing Ratio: 0.39

Lumen Multiplier: 10L x 0.24, 20L x 0.49, 30L x 0.73  
CCT Multiplier: 27HK x 0.96, 35HK x 1.05, 40HK x 1.08

SDT3PC 40L 30HK MD xx xx MW NL

CANDLEPOWER CURVE TEST SP-01455_2	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							
			Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	Ceiling Height	Fixture Spacing	RCR 3		RCR 5			
	0°	0° - 10°	702	25%	8'	129 fc	4.2'	59 fc	18'	6'	75	0.96	74	1.04
	0°	0° - 20°	1796	64%	10'	83 fc	5.3'	37 fc	22'	7'	58	0.75	45	0.64
	5°	0° - 30°	2430	86%	12'	58 fc	6.3'	26 fc	26'	8'	39	0.51	31	0.43
	15°	0° - 40°	2610	93%	14'	42 fc	7.4'	19 fc	Delivered Illuminance Rating: (DIR)		78 FC per W/Sq. Ft.		71 FC per W/Sq. Ft.	
	25°	0° - 60°	2693	96%	16'	32 fc	8.4'	15 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					
	35°	0° - 80°	2786	99%	20'	21 fc	10.5'	9 fc						
	45°	0° - 90°	2801	100%	24'	14 fc	12.6'	7 fc						
	55°	0° - 90°	2801	100%	28'	11 fc	14.7'	5 fc						
	90°	Total	2813	100%										

Delivered Lumens: 2813  
Luminaire Watts: 35  
LER: 80.37

CP at 0° (Nadir): 8285  
CRI: 90

Beam Angle: 29°  
Spacing Ratio: 0.49

Lumen Multiplier: 10L x 0.24, 20L x 0.49, 30L x 0.73  
CCT Multiplier: 27HK x 0.96, 35HK x 1.05, 40HK x 1.08

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"> <li>• CP Candela at 0° (Nadir)</li> <li>• Cos θ Cosine of θ Angle</li> <li>• D Distance (Mounting Height AFF)</li> <li>• FC<sub>H</sub> Footcandles, Horizontal</li> <li>• Beam Angle Cone of light to 50% max. CP</li> <li>• Beam Diam. Pattern of light at Beam Angle</li> </ul>	<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"> <li>• To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio): <math>FC = \text{Chart Spacing}^2 \div \text{Different Spacing}^2 \times \text{Chart FC}</math></li> <li>• To estimate Sq. Ft. per fixture for a specific target FC: <math>\text{Sq. Ft.} / \text{Fixture} = \text{Chart FC} \times \text{Chart Spacing}^2 \div \text{Target FC}</math></li> <li>• To estimate Fixture Quantity in a room: <math>\text{Fixture Qty.} = \text{Sq. Ft. of Rm.} \div \text{Sq. Ft. per fixture}</math></li> <li>• To estimate Watts/Sq. Ft.: <math>\text{W/Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}</math></li> </ul>

SDT3PC 40L 30HK WD xx xx MW NL

CANDLEPOWER CURVE TEST SP-01457_2	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° 526 18%	<table border="1"> <tr> <th>Mounting Distance</th> <th>FC at Beam Center</th> <th>Diameter at Beam Angle</th> <th>FC at Beam Edge</th> </tr> <tr> <td>8'</td> <td>92 fc</td> <td>5.7'</td> <td>39 fc</td> </tr> <tr> <td>10'</td> <td>59 fc</td> <td>7.1'</td> <td>25 fc</td> </tr> <tr> <td>12'</td> <td>41 fc</td> <td>8.6'</td> <td>17 fc</td> </tr> <tr> <td>14'</td> <td>30 fc</td> <td>10.0'</td> <td>13 fc</td> </tr> <tr> <td>16'</td> <td>23 fc</td> <td>11.4'</td> <td>10 fc</td> </tr> <tr> <td>20'</td> <td>15 fc</td> <td>14.3'</td> <td>6 fc</td> </tr> <tr> <td>24'</td> <td>10 fc</td> <td>17.1'</td> <td>4 fc</td> </tr> <tr> <td>28'</td> <td>8 fc</td> <td>20.0'</td> <td>3 fc</td> </tr> </table>	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	8'	92 fc	5.7'	39 fc	10'	59 fc	7.1'	25 fc	12'	41 fc	8.6'	17 fc	14'	30 fc	10.0'	13 fc	16'	23 fc	11.4'	10 fc	20'	15 fc	14.3'	6 fc	24'	10 fc	17.1'	4 fc	28'	8 fc	20.0'	3 fc	<table border="1"> <tr> <th>Ceiling Height</th> <th>Fixture Spacing</th> <th colspan="2">RCR 2</th> <th colspan="2">RCR 4</th> </tr> <tr> <td></td> <td></td> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> <tr> <td>14'</td> <td>6'</td> <td>85</td> <td>1.03</td> <td>60</td> <td>0.81</td> </tr> <tr> <td>18'</td> <td>8'</td> <td>45</td> <td>0.54</td> <td>32</td> <td>0.43</td> </tr> <tr> <td>22'</td> <td>10'</td> <td>28</td> <td>0.33</td> <td>30</td> <td>0.41</td> </tr> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">83 FC per W/Sq. Ft.</td> <td colspan="2">74 FC per W/Sq. Ft.</td> </tr> <tr> <td colspan="6">                     * 1' Suspension Length to luminous aperture                      Square rooms used for multiple units:                      RCR 2: Length &amp; Width = Ceiling Ht. - 3.5' x 5.00                      RCR 4: Length &amp; Width = Ceiling Ht. - 3.5' x 2.50                      * Average Initial Footcandles at 2.5' Above Floor                 </td> </tr> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4				FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	14'	6'	85	1.03	60	0.81	18'	8'	45	0.54	32	0.43	22'	10'	28	0.33	30	0.41	Delivered Illuminance Rating: (DIR)		83 FC per W/Sq. Ft.		74 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					
	Mounting Distance	FC at Beam Center		Diameter at Beam Angle	FC at Beam Edge																																																																													
	8'	92 fc		5.7'	39 fc																																																																													
	10'	59 fc		7.1'	25 fc																																																																													
	12'	41 fc		8.6'	17 fc																																																																													
	14'	30 fc		10.0'	13 fc																																																																													
	16'	23 fc		11.4'	10 fc																																																																													
	20'	15 fc		14.3'	6 fc																																																																													
	24'	10 fc		17.1'	4 fc																																																																													
	28'	8 fc		20.0'	3 fc																																																																													
	Ceiling Height	Fixture Spacing		RCR 2		RCR 4																																																																												
				FC *	W/Sq. Ft.	FC *	W/Sq. Ft.																																																																											
14'	6'	85	1.03	60	0.81																																																																													
18'	8'	45	0.54	32	0.43																																																																													
22'	10'	28	0.33	30	0.41																																																																													
Delivered Illuminance Rating: (DIR)		83 FC per W/Sq. Ft.		74 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																																																																																		
0° 5915	0° - 20° 1613 56%	0° - 30° 2441 85%	0° - 40° 2657 93%	0° - 60° 2751 96%	0° - 80° 2836 99%	0° - 90° 2850 100%	Total 2862 100%																																																																											
5° 5660	5° 5660	15° 3928	25° 1834	35° 250	45° 61	55° 52	90° 3																																																																											

Delivered Lumens: 2862  
Luminaire Watts: 35  
LER: 81.77

CP at 0° (Nadir): 5915  
CRI: 90

Beam Angle: 39°  
Spacing Ratio: 0.62

Lumen Multiplier: 10L x 0.24, 20L x 0.49, 30L x 0.73  
CCT Multiplier: 27HK x 0.96, 35HK x 1.05, 40HK x 1.08

SDT3PC 40L 30HK XW xx xx MW NL

CANDLEPOWER CURVE TEST SP-01458_2	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° 238 9%	<table border="1"> <tr> <th>Mounting Distance</th> <th>FC at Beam Center</th> <th>Diameter at Beam Angle</th> <th>FC at Beam Edge</th> </tr> <tr> <td>8'</td> <td>40 fc</td> <td>8.9'</td> <td>13 fc</td> </tr> <tr> <td>10'</td> <td>25 fc</td> <td>11.1'</td> <td>8 fc</td> </tr> <tr> <td>12'</td> <td>18 fc</td> <td>13.3'</td> <td>6 fc</td> </tr> <tr> <td>14'</td> <td>13 fc</td> <td>15.5'</td> <td>4 fc</td> </tr> <tr> <td>16'</td> <td>10 fc</td> <td>17.7'</td> <td>3 fc</td> </tr> <tr> <td>20'</td> <td>6 fc</td> <td>22.1'</td> <td>2 fc</td> </tr> <tr> <td>24'</td> <td>4 fc</td> <td>26.6'</td> <td>1 fc</td> </tr> <tr> <td>28'</td> <td>3 fc</td> <td>31.0'</td> <td>1 fc</td> </tr> </table>	Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge	8'	40 fc	8.9'	13 fc	10'	25 fc	11.1'	8 fc	12'	18 fc	13.3'	6 fc	14'	13 fc	15.5'	4 fc	16'	10 fc	17.7'	3 fc	20'	6 fc	22.1'	2 fc	24'	4 fc	26.6'	1 fc	28'	3 fc	31.0'	1 fc	<table border="1"> <tr> <th>Ceiling Height</th> <th>Fixture Spacing</th> <th colspan="2">RCR 2</th> <th colspan="2">RCR 4</th> </tr> <tr> <td></td> <td></td> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> <tr> <td>14'</td> <td>8'</td> <td>32</td> <td>0.46</td> <td>28</td> <td>0.46</td> </tr> <tr> <td>18'</td> <td>10'</td> <td>23</td> <td>0.33</td> <td>15</td> <td>0.24</td> </tr> <tr> <td>22'</td> <td>12'</td> <td>14</td> <td>0.20</td> <td>16</td> <td>0.26</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> <tr> <td colspan="6">                     * 1' Suspension Length to luminous aperture                      Square rooms used for multiple units:                      RCR 2: Length &amp; Width = Ceiling Ht. - 3.5' x 5.00                      RCR 4: Length &amp; Width = Ceiling Ht. - 3.5' x 2.50                      * Average Initial Footcandles at 2.5' Above Floor                 </td> </tr> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4				FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	14'	8'	32	0.46	28	0.46	18'	10'	23	0.33	15	0.24	22'	12'	14	0.20	16	0.26	Delivered Illuminance Rating: (DIR)		71 FC per W/Sq. Ft.		61 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					
	Mounting Distance	FC at Beam Center		Diameter at Beam Angle	FC at Beam Edge																																																																													
	8'	40 fc		8.9'	13 fc																																																																													
	10'	25 fc		11.1'	8 fc																																																																													
	12'	18 fc		13.3'	6 fc																																																																													
	14'	13 fc		15.5'	4 fc																																																																													
	16'	10 fc		17.7'	3 fc																																																																													
	20'	6 fc		22.1'	2 fc																																																																													
	24'	4 fc		26.6'	1 fc																																																																													
	28'	3 fc		31.0'	1 fc																																																																													
	Ceiling Height	Fixture Spacing		RCR 2		RCR 4																																																																												
				FC *	W/Sq. Ft.	FC *	W/Sq. Ft.																																																																											
14'	8'	32	0.46	28	0.46																																																																													
18'	10'	23	0.33	15	0.24																																																																													
22'	12'	14	0.20	16	0.26																																																																													
Delivered Illuminance Rating: (DIR)		71 FC per W/Sq. Ft.		61 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																																																																																		
0° 2535	0° - 20° 866 34%	0° - 30° 1634 65%	0° - 40° 2041 81%	0° - 60° 2399 95%	0° - 80° 2502 99%	0° - 90° 2514 100%	Total 2525 100%																																																																											
5° 2491	5° 2491	15° 2232	25° 1729	35° 619	45° 294	55° 153	90° 2																																																																											

Delivered Lumens: 2525  
Luminaire Watts: 35  
LER: 72.14

CP at 0° (Nadir): 2535  
CRI: 90

Beam Angle: 58°  
Spacing Ratio: 0.93

Lumen Multiplier: 10L x 0.24, 20L x 0.49, 30L x 0.73  
CCT Multiplier: 27HK x 0.96, 35HK x 1.05, 40HK x 1.08

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"> <li>• CP Candela at 0° (Nadir)</li> <li>• Cos θ Cosine of θ Angle</li> <li>• D Distance (Mounting Height AFF)</li> <li>• FC<sub>H</sub> Footcandles, Horizontal</li> <li>• Beam Angle Cone of light to 50% max. CP</li> <li>• Beam Diam. Pattern of light at Beam Angle</li> </ul>	<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"> <li>- To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio): <math>FC = \text{Chart Spacing}^2 \div \text{Different Spacing}^2 \times \text{Chart FC}</math></li> <li>- To estimate Sq. Ft. per fixture for a specific target FC: <math>\text{Sq. Ft.} / \text{Fixture} = \text{Chart FC} \times \text{Chart Spacing}^2 \div \text{Target FC}</math></li> </ul> <ul style="list-style-type: none"> <li>- To estimate Fixture Quantity in a room: Fixture Qty. = Sq. Ft. of Rm. ÷ Sq. Ft. per fixture</li> <li>- To estimate Watts/Sq. Ft.: W/ Sq. Ft. = Luminaire Watts x Qty. ÷ Sq. Ft. of Rm.</li> </ul>