

STT3PC

3" SPOT TRACK LUMINAIRE

Spectrum 3" Round TT Series Track Light for Accent Lighting with Up to 2700 Lumens Delivered.

LUMENS / WATTAGE DATA				
PART NUMBER	SOURCE LUMENS ¹	DELIVERED LUMENS ²	SYSTEM WATTS	LPW
STT3PC10L	1000	598	8.3	72
STT3PC20L	2000	1251	17.1	73
STT3PC30L	3000	1955	22	89
STT3PC40L	4000	2679	30.4	88

¹ Nominal Source Lumens at 35K ² Nominal Delivered Lumens at 82 CRI with PC40L 35K MD XX NL

FEATURES

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. High tension friction locking mechanism for aiming and rotation. Wide array of track systems and fixture mounting.

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 ELV/TRIAC 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 Standards No. 1574.

WARRANTY

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

DLC LISTING

STT3PC30L35KWDE2/HTEK100/xx/xx

L70: >60,000 hours

PRODUCT SELECTOR GUIDE

SERIES	LUMENS ¹	CCT	OPTICS	DRIVER / VOLTAGE	ADAPTOR	FINISH	ACCESSORIES
STT3PC							

EXAMPLE

STT3PC	10L	27K	ND	DO101	TP3	PT	
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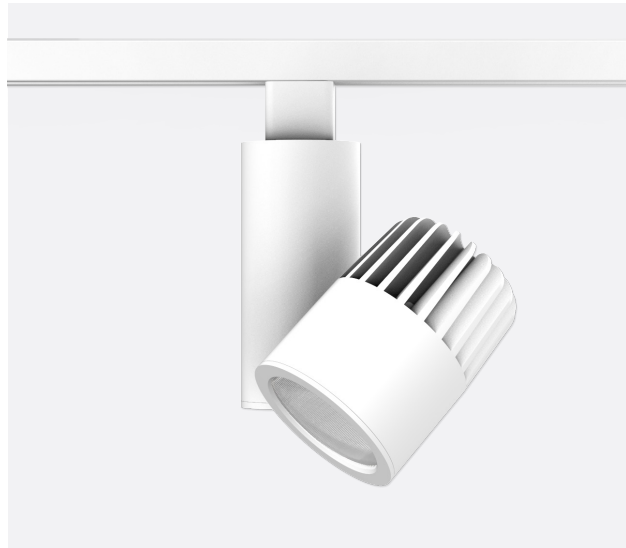
SERIES	LUMENS ¹	CCT	OPTICS	DRIVER / VOLTAGE	ADAPTOR	FINISH ²	ACCESSORIES ⁴			
STT3PC	80 CRI		ND 19° MD 36° WD 43° XW 62°	E1 Electronic Driver, 120V DS2W1 1%, ELV/TRIAC Phase Cut Dimming, 120V Also Used For Non-Dimming 120V	BET Basix 1 CIR/1 NEUT 120V GES66 Global GES 1 CIR/1 NEUT 120V TEK100 Global TEK 2 CIR/2 NEUT 120V	MW³ Matte White MB³ Matte Black PT³ Platinum Silver CC Custom Color	ORDER SEPARATELY NL No Lens LN3ASO Solite Diffuse Lens LN3AFG Frosted Lens LN3ASK Skytex Linear Lens LN3AGL Clear Lens SN3A⁵ Snoot HL3A⁵ Hex Louver BET70WH Mono Point Canopy White BET70BK Mono Point Canopy Black			
	10L 600 Lm	27K 2700K						DO101 1%, 0-10V Dimming, 120V	TP3 Global XTSC 3 CIR/1 NEUT 120V, 0-10V Dimmable	
	20L 1250 Lm	30K 3000K		E2 Non-Dimming Electronic Driver, 277V DO102 1%, 0-10V Dimming, 277V	HTEK100 Global TEK 2 CIR/2 NEUT 277V TWD EUTRAC 2 CIR/2 NEUT 277V, 0-10V Dimmable					
	30L 2000 Lm	35K 3500K				² See Color Page for More Options/ Consult Factory for Special Finishes ³ Standard Finishes				
	40L 2700 Lm	40K 4000K								
	90 CRI									
	10L 600 Lm	27HK 2700K								
	20L 1250 Lm	30HK 3000K								
	30L 2000 Lm	35HK 3500K								
	40L 2700 Lm	40HK 4000K								
¹ Nominal Delivered Lumens at 35K										

GREEN TEXT INDICATES QUICK SHIP OPTIONS ■ DLC PREMIUM LISTED OPTIONS

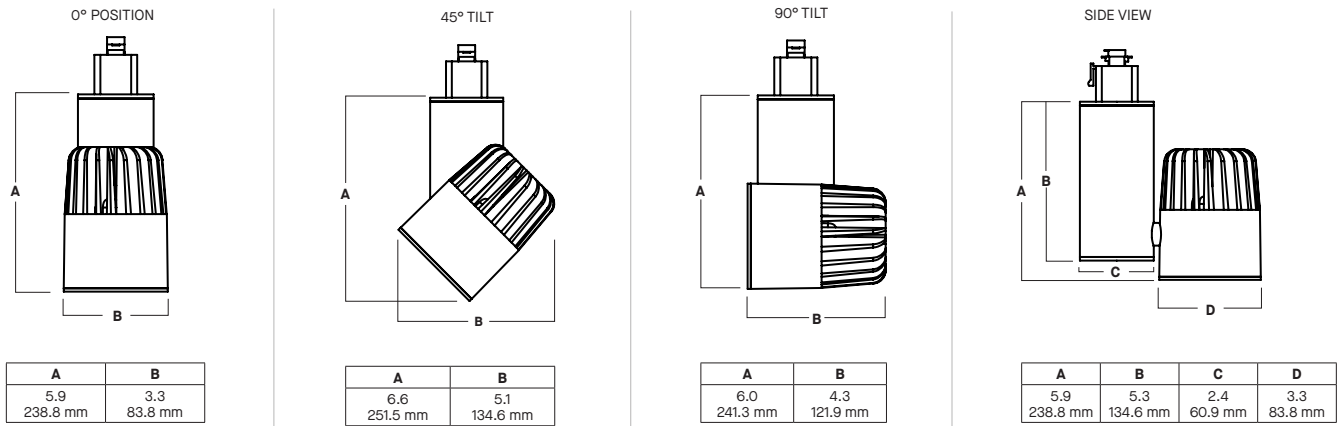


COPYRIGHT 2022 SPECTRUM LIGHTING, INC.

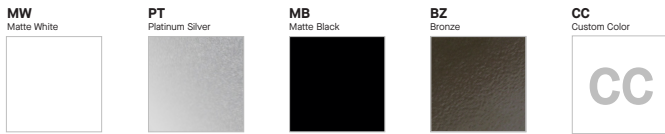
PROJECT: _____
 QUANTITY: _____ TYPE: _____



FIXTURE DIMENSIONS



FINISH



PAINT TIMES

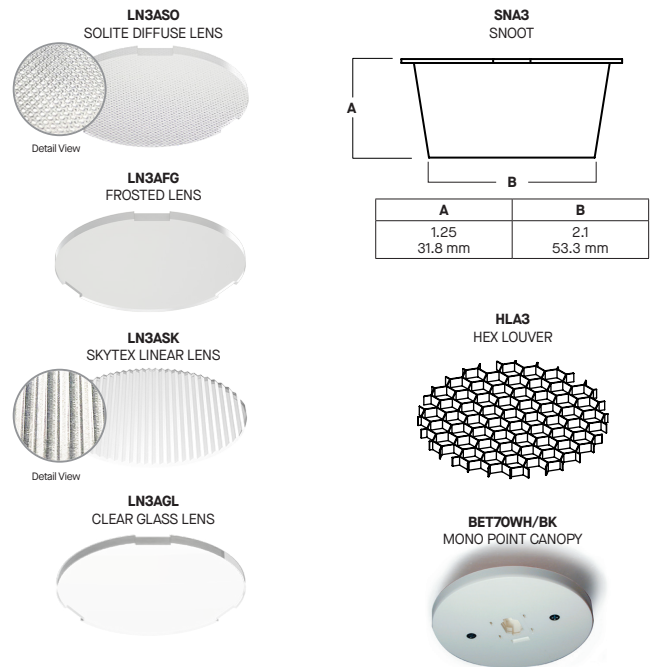
TIER	COST	AVERAGE PAINT TIME*
Tier 1 - Standard Finishes	\$	⌚
Custom Color	Contact Factory	Contact Factory

*CONTACT FACTORY FOR SPECIFIC PRODUCT LEAD TIMES

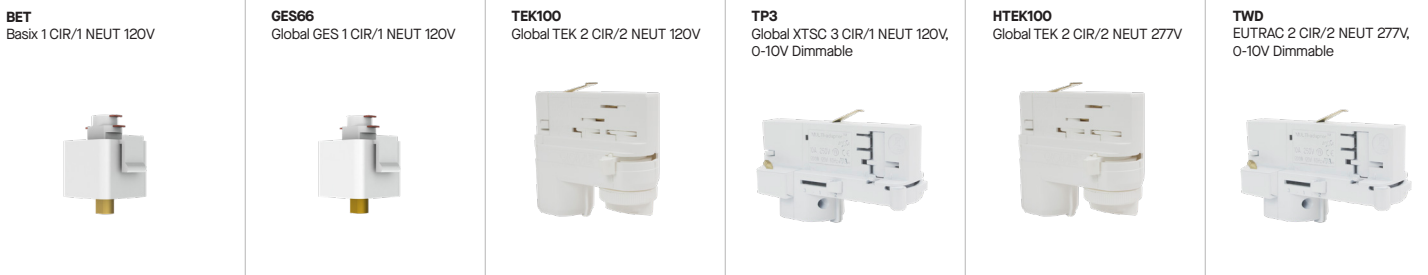
STANDARD PRODUCT FINISHES

FIXTURE COLOR	STANDARD CORD COLOR / TRACK ADAPTER
Matte White	Matte White
Matte Black	Matte Black
All Others	Matte Black
Custom Color	Contact Factory

FIXTURE ACCESSORIES



ADAPTOR



STT3PC 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																																								
	0°	0° - 10° 865 28%	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>18'</td> <td>4'</td> <td>180</td> <td>1.87</td> <td>166</td> <td>1.88</td> </tr> <tr> <td>22'</td> <td>5'</td> <td>111</td> <td>1.15</td> <td>102</td> <td>1.16</td> </tr> <tr> <td>26'</td> <td>6'</td> <td>75</td> <td>0.78</td> <td>69</td> <td>0.78</td> </tr> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">96 FC per W/Sq. Ft.</td> <td colspan="2">88 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.	18'	4'	180	1.87	166	1.88	22'	5'	111	1.15	102	1.16	26'	6'	75	0.78	69	0.78	Delivered Illuminance Rating: (DIR)		96 FC per W/Sq. Ft.		88 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° 12504	0° - 20° 1913 62%	8' 195 fc 3.0' 93 fc																																									
	5° 10590	0° - 30° 2640 85%	10' 125 fc 3.7' 59 fc																																									
	15° 3623	0° - 40° 3048 98%	12' 87 fc 4.5' 41 fc																																									
	25° 1490	0° - 60° 3084 100%	14' 64 fc 5.2' 30 fc																																									
35° 657	0° - 80° 3094 100%	16' 49 fc 6.0' 23 fc																																										
45° 21	0° - 90° 3097 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

STT3PC 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																																								
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	0° 8725	0° - 20° 1766 66%	8' 136 fc 3.9' 62 fc																																									
	5° 8108	0° - 30° 2371 89%	10' 87 fc 4.9' 40 fc																																									
	15° 3742	0° - 40° 2528 94%	12' 61 fc 5.9' 28 fc																																									
	25° 1354	0° - 60° 2596 97%	14' 45 fc 6.9' 20 fc																																									
35° 247	0° - 80° 2670 100%	16' 34 fc 7.9' 16 fc																																										
45° 50	0° - 90° 2679 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"> • 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: 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.

STT3PC 40L 35K WD XX

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																																																																		
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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

STT3PC 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>Ceiling Height</th> <th>Fixture Spacing</th> <th colspan="2">RCR 2</th> <th colspan="2">RCR 4</th> </tr> <tr> <th></th> <th></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>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																																																																	
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	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																																																																
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14'	8'	36	0.40	32	0.40																																																																	
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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) 92 FC per W/Sq. Ft. 80 FC per W/Sq. Ft.																																																																			
35° 1009	0° - 80° 2787 100%	16' 11 fc 19.5' 4 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																																																																			
45° 221	0° - 90° 2789 100%	20' 7 fc 24.4' 2 fc																																																																				
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"> • 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.: $\text{W/Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}$

STT3PC 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																																								
	0°	0° - 10° 765 28%	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>18'</td> <td>4'</td> <td>158</td> <td>2.16</td> <td>146</td> <td>2.17</td> </tr> <tr> <td>22'</td> <td>5'</td> <td>97</td> <td>1.33</td> <td>89</td> <td>1.34</td> </tr> <tr> <td>26'</td> <td>6'</td> <td>65</td> <td>0.90</td> <td>60</td> <td>0.90</td> </tr> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">73 FC per W/Sq. Ft.</td> <td colspan="2">67 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.	18'	4'	158	2.16	146	2.17	22'	5'	97	1.33	89	1.34	26'	6'	65	0.90	60	0.90	Delivered Illuminance Rating: (DIR)		73 FC per W/Sq. Ft.		67 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					
	Ceiling Height	Fixture Spacing	RCR 4				RCR 6																																					
			FC *		W/Sq. Ft.	FC *	W/Sq. Ft.																																					
	18'	4'	158		2.16	146	2.17																																					
	22'	5'	97		1.33	89	1.34																																					
	26'	6'	65		0.90	60	0.90																																					
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	0° 10253	0° - 20° 1764 64%	8' 160 fc 3.3' 75 fc																																									
	5° 8969	0° - 30° 2371 85%	10' 103 fc 4.1' 48 fc																																									
15° 3604	0° - 40° 2547 92%	12' 71 fc 5.0' 33 fc																																										
25° 1365	0° - 60° 2636 95%	14' 52 fc 5.8' 25 fc																																										
35° 241	0° - 80° 2746 99%	16' 40 fc 6.6' 19 fc																																										
45° 48	0° - 90° 2762 100%	20' 26 fc 8.3' 12 fc																																										
55° 49	Total 2775 100%	24' 18 fc 9.9' 8 fc																																										
90° 1		28' 13 fc 11.6' 6 fc																																										

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

STT3PC 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																																								
	0°	0° - 10° 702 25%	Mounting Distance	<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>18'</td> <td>6'</td> <td>75</td> <td>0.96</td> <td>74</td> <td>1.04</td> </tr> <tr> <td>22'</td> <td>7'</td> <td>58</td> <td>0.75</td> <td>45</td> <td>0.64</td> </tr> <tr> <td>26'</td> <td>8'</td> <td>39</td> <td>0.51</td> <td>31</td> <td>0.43</td> </tr> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">78 FC per W/Sq. Ft.</td> <td colspan="2">71 FC per W/Sq. Ft.</td> </tr> <tr> <td colspan="6"> * 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 </td> </tr> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 3		RCR 5		FC *	W/Sq. Ft.	FC *	W/Sq. Ft.	18'	6'	75	0.96	74	1.04	22'	7'	58	0.75	45	0.64	26'	8'	39	0.51	31	0.43	Delivered Illuminance Rating: (DIR)		78 FC per W/Sq. Ft.		71 FC per W/Sq. Ft.		* 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					
	Ceiling Height	Fixture Spacing	RCR 3				RCR 5																																					
			FC *		W/Sq. Ft.	FC *	W/Sq. Ft.																																					
	18'	6'	75		0.96	74	1.04																																					
	22'	7'	58		0.75	45	0.64																																					
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	* 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																																											
	0° 8285	0° - 20° 1796 64%	8' 129 fc 4.2' 59 fc																																									
	5° 7737	0° - 30° 2430 86%	10' 83 fc 5.3' 37 fc																																									
15° 4045	0° - 40° 2610 93%	12' 58 fc 6.3' 26 fc																																										
25° 1390	0° - 60° 2693 96%	14' 42 fc 7.4' 19 fc																																										
35° 250	0° - 80° 2786 99%	16' 32 fc 8.4' 15 fc																																										
45° 55	0° - 90° 2801 100%	20' 21 fc 10.5' 9 fc																																										
55° 45	Total 2813 100%	24' 14 fc 12.6' 7 fc																																										
90° 3		28' 11 fc 14.7' 5 fc																																										

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"> • 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 Sq. Ft. per fixture for a specific target FC: Sq. Ft. / Fixture = Chart FC x Chart Spacing² ÷ Target FC <ul style="list-style-type: none"> • 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.

STT3PC 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%	Mounting Distance	<table border="1"> <thead> <tr> <th>Ceiling Height</th> <th>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> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <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> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		FC *	W/Sq. Ft.	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
	Ceiling Height	Fixture Spacing	RCR 2		RCR 4																													
	FC *	W/Sq. Ft.	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																												
	0° 5915	0° - 20° 1613 56%	FC at Beam Center	FC at Beam Edge																														
	5° 5660	0° - 30° 2441 85%	8' 92 fc 5.7'	39 fc																														
	15° 3928	0° - 40° 2657 93%	10' 59 fc 7.1'	25 fc																														
	25° 1834	0° - 60° 2751 96%	12' 41 fc 8.6'	17 fc																														
	35° 250	0° - 80° 2836 99%	14' 30 fc 10.0'	13 fc																														
	45° 61	0° - 90° 2850 100%	16' 23 fc 11.4'	10 fc																														
55° 52	Total 2862 100%	20' 15 fc 14.3'	6 fc																															
90° 3		24' 10 fc 17.1'	4 fc																															
		28' 8 fc 20.0'	3 fc																															

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

STT3PC 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%	Mounting Distance	<table border="1"> <thead> <tr> <th>Ceiling Height</th> <th>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> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <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> </tbody> </table>	Ceiling Height	Fixture Spacing	RCR 2		RCR 4		FC *	W/Sq. Ft.	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
	Ceiling Height	Fixture Spacing	RCR 2		RCR 4																													
	FC *	W/Sq. Ft.	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																												
	0° 2535	0° - 20° 866 34%	FC at Beam Center	FC at Beam Edge																														
	5° 2491	0° - 30° 1634 65%	8' 40 fc 8.9'	13 fc																														
	15° 2232	0° - 40° 2041 81%	10' 25 fc 11.1'	8 fc																														
	25° 1729	0° - 60° 2399 95%	12' 18 fc 13.3'	6 fc																														
	35° 619	0° - 80° 2502 99%	14' 13 fc 15.5'	4 fc																														
	45° 294	0° - 90° 2514 100%	16' 10 fc 17.7'	3 fc																														
55° 153	Total 2525 100%	20' 6 fc 22.1'	2 fc																															
90° 2		24' 4 fc 26.6'	1 fc																															
		28' 3 fc 31.0'	1 fc																															

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"> • 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: 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.