Spectrum Lighting

STT4PC

4" SPOT TRACK LUMINAIRE

Spectrum 4" Round TT Series Track Light for Accent Lighting with Up to 3500 Lumens Delivered.

LUMENS / WATTAGE DATA				
PART NUMBER	SOURCE LUMENS[1]	DELIVERED LUMENS[2]	SYSTEM WATTS	LPW
STT4PC10L	1000	686	7.4	93
STT4PC20L	2000	1372	13.2	104
STT4PC30L	3000	2059	20.4	101
STT4PC40L	4000	2745	28.1	98
STT4PC50L	5000	3431	35	98

1 Nominal Source Lumens at 35K **2** Nominal Delivered Lumens at 82 CRI with PC50L 35K WD xx xx LN4AGL

PROJECT:

QUANTITY: TYPE:

SPEC TRAC

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.

PRODUCT SELECTOR GUIDE

SERIES	LUMENS[1]	CCT	OPTICS	DRIVER / VOLTAGE	ADAPTOR	FINISH		ACCESSORIES
STT4PC							+	
EXAMPLE								
STT4PC	30L	35K	MD	DS2W1	GES66	PT	+	

SERIES	LUMENS[1]		CCT		OPTICS		DRIVER / VOLTAGE		ADAPTOR		FINISH[2]	
STT4PC	80 CRI				ND	16°	E1	Electronic Driver, 120V	BET	Basix 1 CIR/1 NEUT 120V	MW[3]	Matte White
	10L	700 Lm	27K	2700K	MD	26°	DS2W1	1%, ELV/TRIAC Phase Cut Dimming, 120V Also Used For Non-Dimming 120V	GES66	Global GES 1 CIR/1 NEUT 120V	MB[3]	Matte Black
	20L	1400 Lm	30K	3000K	WD	36°			TEK100	Global TEK 2 CIR/2 NEUT 120V	PT[3]	Platinum Silver
	30L	2000 Lm	35K	3500K	XW	56°					CC	Custom Color
	40L	2750 Lm	40K	4000K			DO101	1%, 0-10V Dimming, 120V	TP3	Global XTSC 3 CIR/1 NEUT 120V, 0-10V Dimmable		
	50L	3500 Lm										
	90 CRI						E2	Non-Dimming Electronic Driver, 277V	HTEK100	Global TEK 2 CIR/2 NEUT 277V		
	10L	700 Lm	27HK	2700K			DO102	1%, 0-10V Dimming, 277V	TWD	EUTRAC 2 CIR/2 NEUT 277V, 0-10V Dimmable		
	20L	1400 Lm	30HK	3000K								
	30L	2000 Lm	35HK	3500K								
	40L	2750 Lm	40HK	4000K								
	50L	3500 Lm										

1 Nominal Delivered Lumens at 35K

2 See Color Page for More Options/ Consult Factory for Special Finishes
3 Standard Finishes

ACCESSORIES[4]	
ORDER SEPARATELY	
LN4ASO	Solite Diffuse Lens
LN4AFG	Frosted Lens
LN4ASK	Skytex Linear Lens
LN4AGL	Clear Lens
SN4A[5]	Snoot
HL4A[5]	Hex Louver
BET70WH	Mono Point Canopy White
BET70BK	Mono Point Canopy Black

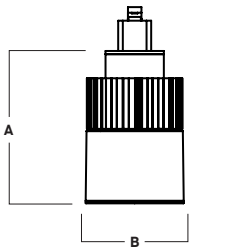
4 Track Light Accepts up to Two Accessories
5 Flat Black Finish

STT4PC 4" SPOT TRACK LUMINAIRE

Spectrum Lighting

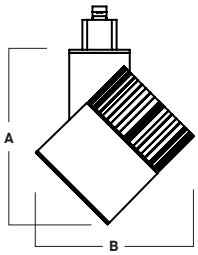
FIXTURE DIMENSIONS

0° POSITION



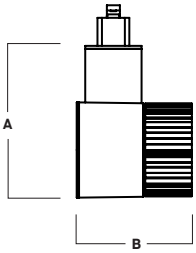
A	B
5.9 149.9 mm	4.0 101.6 mm

45° TILT



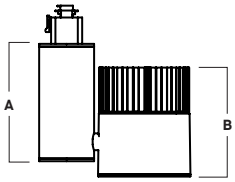
A	B
6.9 175.3 mm	6.2 157.5 mm

90° TILT



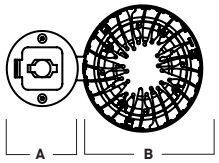
A	B
6.4 162.6 mm	4.9 124.5 mm

SIDE VIEW



A	B
5.3 134.6 mm	4.9 124.5 mm

TOP VIEW



A	B
2.4 61.0 mm	4.0 101.6 mm

FINISH

MW Matte White

PT Platinum Silver

MB Matte Black

BZ Bronze

CC Custom Color

CC

PAINT TIMES

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

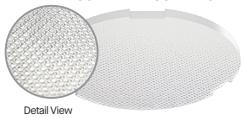
*CONTACT FACTORY FOR SPECIFIC PRODUCT LEAD TIMES

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

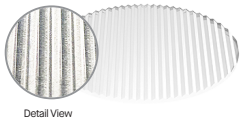
FIXTURE ACCESSORIES

LN4ASO
SOLITE DIFFUSE LENS



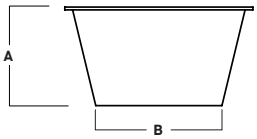
LN4AFG
FROSTED LENS

LN4ASK
SKYTEX LINEAR LENS



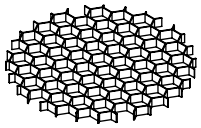
LN4AGL
CLEAR GLASS LENS

SNA4
SNOOT



A	B
1.75 44.5 mm	2.2 55.9 mm

HLA4
HEX LOUVER



BET70WH/BK
MONO POINT CANOPY

ADAPTOR

BET
Basix 1 CIR/1 NEUT 120V

GES66
Global GES 1 CIR/1 NEUT 120V

TEK100
Global TEK 2 CIR/2 NEUT 120V

TP3
Global XTSC 3 CIR/1 NEUT 120V, 0-10V Dimmable

HTEK100
Global TEK 2 CIR/2 NEUT 277V

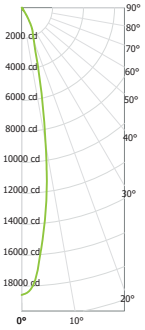
TWD
EUTRAC 2 CIR/2 NEUT 277V, 0-10V Dimmable

STT4PC 4" SPOT TRACK LUMINAIRE

Spectrum Lighting

STT4PC 50L 35K ND xx xx NL

CANDLEPOWER CURVE
TEST SP-01364



INTENSITY
CANDELA
0° AZIMUTH

	0°
0°	18567
5°	15216
15°	4302
25°	1677
35°	269
45°	41
55°	41
90°	2

ZONAL LUMENS

0° - 10°	1260	35%
0° - 20°	2487	69%
0° - 30°	3208	90%
0° - 40°	3408	95%
0° - 60°	3478	97%
0° - 80°	3559	99%
0° - 90°	3571	100%
Total	3580	100%

SINGLE UNIT: PERFORMANCE
HORIZONTAL FOOTCANDLES
INITIAL DOWNLIGHT ONLY

Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge
6.5 '	439 fc	2.2 '	210 fc
7.5 '	330 fc	2.6 '	158 fc
8.5 '	257 fc	2.9 '	123 fc
10.0 '	186 fc	3.4 '	89 fc
12.0 '	129 fc	4.1 '	62 fc
14.0 '	95 fc	4.8 '	45 fc
16.0 '	73 fc	5.5 '	35 fc
20.0 '	46 fc	6.9 '	22 fc

MULTIPLE UNITS: PERFORMANCE
80/50/20% REFLECTANCES
HORIZONTAL FOOTCANDLES AND WATTS/SQ FT

Ceiling Height	Fixture Spacing	RCR 4		RCR 6	
		FC [+]	W/Sq. Ft.	FC [+]	W/Sq. Ft.
18'	4'	210	2.16	196	2.17
22'	5'	129	1.33	120	1.34
26'	6'	87	0.90	81	0.90
Delivered Illuminance Rating: (DIR)		97 FC per W/Sq. Ft.		90 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: 3580
Luminaire Watts: 35
LER: 102.29

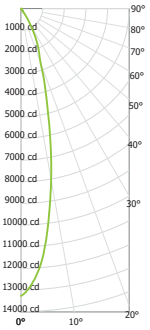
CP at 0° (Nadir): 18567
CRI: 80

Beam Angle: 20°
Spacing Ratio: 0.33

Lumen Multiplier: 10L x 0.20, 20L x 0.40, 30L x 0.60, 40L x 0.80
CCT Multiplier: 27K x 0.95, 30K x 0.98, 40K x 1.03

STT4PC 50L 35K MD xx xx NL

CANDLEPOWER CURVE
TEST SP-01362



INTENSITY
CANDELA
0° AZIMUTH

	0°
0°	13276
5°	11541
15°	4714
25°	1782
35°	205
45°	46
55°	45
90°	1

ZONAL LUMENS

0° - 10°	992	29%
0° - 20°	2321	67%
0° - 30°	3104	89%
0° - 40°	3306	95%
0° - 60°	3382	97%
0° - 80°	3459	99%
0° - 90°	3473	100%
Total	3481	100%

SINGLE UNIT: PERFORMANCE
HORIZONTAL FOOTCANDLES
INITIAL DOWNLIGHT ONLY

Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge
6.5 '	314 fc	2.8 '	147 fc
7.5 '	236 fc	3.2 '	110 fc
8.5 '	184 fc	3.6 '	86 fc
10.0 '	133 fc	4.3 '	62 fc
12.0 '	92 fc	5.1 '	43 fc
14.0 '	68 fc	6.0 '	32 fc
16.0 '	52 fc	6.8 '	24 fc
20.0 '	33 fc	8.5 '	16 fc

MULTIPLE UNITS: PERFORMANCE
80/50/20% REFLECTANCES
HORIZONTAL FOOTCANDLES AND WATTS/SQ FT

Ceiling Height	Fixture Spacing	RCR 3		RCR 5	
		FC [+]	W/Sq. Ft.	FC [+]	W/Sq. Ft.
18'	6'*	94	0.96	93	1.04
22'	7'	73	0.75	57	0.64
26'	8'	49	0.51	56	0.62
Delivered Illuminance Rating: (DIR)		98 FC per W/Sq. Ft.		89 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
[*] Exceeds Spacing Ratio by 3%

Delivered Lumens: 3481
Luminaire Watts: 35
LER: 99.46

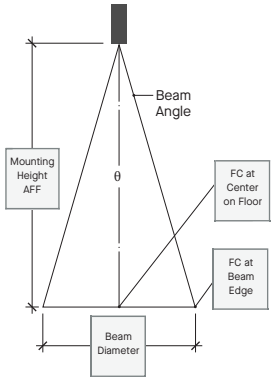
CP at 0° (Nadir): 13276
CRI: 80

Beam Angle: 24°
Spacing Ratio: 0.40

Lumen Multiplier: 10L x 0.20, 20L x 0.40, 30L x 0.60, 40L x 0.80
CCT Multiplier: 27K x 0.95, 30K x 0.98, 40K x 1.03

HOW TO USE PERFORMANCE DATA

SINGLE UNIT



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.

$FC_H = CP \times (\cos \theta) \div D^2$

Beam Diam. = ½ Beam Angle (Tan) x 2D

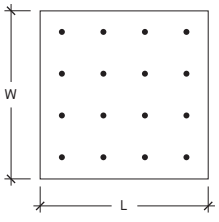
- CP — Candela at 0° (Nadir)
- Cos θ — Cosine of θ Angle
- D — Distance (Mounting Height AFF)
- FC_H — Footcandles, Horizontal
- Beam Angle — Cone of light to 50% max. CP
- Beam Diam. — Pattern of light at Beam Angle

MULTIPLE UNITS

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.

Delivered Illuminance Rating (DIR[e]):
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.

- To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio):
  FC = Chart Spacing^2 ÷ Different Spacing^2 x Chart FC
- To estimate Sq. Ft. per fixture for a specific target FC:
  Sq. Ft. / Fixture = Chart FC x Chart Spacing^2 ÷ Target FC



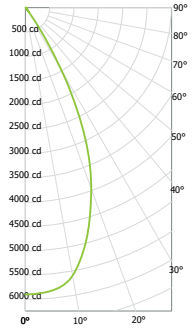
- To estimate Fixture Quantity in a room:
  Fixture Qty. = Sq. Ft. of Rm. ÷ Sq. Ft. per fixture
- To estimate Watts/Sq. Ft.:
  W/ Sq. Ft. = Luminaire Watts x Qty. ÷ Sq. Ft. of Rm.

STT4PC 4" SPOT TRACK LUMINAIRE

Spectrum Lighting

STT4PC 50L 35K WD xx xx NL

CANDLEPOWER CURVE
TEST SP-01366



INTENSITY
CANDELA
0° AZIMUTH

	0°
0°	5899
5°	5851
15°	4892
25°	2855
35°	445
45°	49
55°	42
90°	2

ZONAL LUMENS

0° - 10°	557	15%
0° - 20°	1892	52%
0° - 30°	3128	86%
0° - 40°	3445	95%
0° - 60°	3526	97%
0° - 80°	3597	99%
0° - 90°	3610	100%
Total	3620	100%

SINGLE UNIT: PERFORMANCE
HORIZONTAL FOOTCANDLES
INITIAL DOWNLIGHT ONLY

Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge
6.5 '	140 fc	5.9 '	53 fc
7.5 '	105 fc	6.9 '	39 fc
8.5 '	82 fc	7.8 '	31 fc
10.0 '	59 fc	9.2 '	22 fc
12.0 '	41 fc	11.0 '	15 fc
14.0 '	30 fc	12.8 '	11 fc
16.0 '	23 fc	14.6 '	9 fc
20.0 '	15 fc	18.3 '	6 fc

MULTIPLE UNITS: PERFORMANCE
80/50/20% REFLECTANCES
HORIZONTAL FOOTCANDLES AND WATTS/SQ FT

Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
		FC [+]	W/Sq. Ft.	FC [+]	W/Sq. Ft.
14'	6'	108	1.03	76	0.81
18'	8'	57	0.54	40	0.43
22'	10'	35	0.33	25	0.26
Delivered Illuminance Rating: (DIR)		105 FC per W/Sq. Ft.		94 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

Delivered Lumens: 3620
Luminaire Watts: 35
LER: 103.43

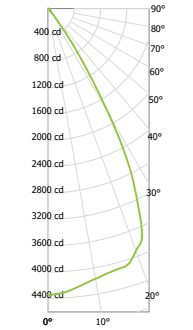
CP at 0° (Nadir): 5899
CRI: 80

Beam Angle: 49°
Spacing Ratio: 0.78

Lumen Multiplier: 10L x 0.20, 20L x 0.40, 30L x 0.60, 40L x 0.80
CCT Multiplier: 27K x 0.95, 30K x 0.98, 40K x 1.03

STT4PC 50L 35K XW xx xx NL

CANDLEPOWER CURVE
TEST SP-01368



INTENSITY
CANDELA
0° AZIMUTH

	0°
0°	4345
5°	4281
15°	4096
25°	3203
35°	661
45°	59
55°	40
90°	2

ZONAL LUMENS

0° - 10°	410	11%
0° - 20°	1559	43%
0° - 30°	2964	82%
0° - 40°	3444	95%
0° - 60°	3541	98%
0° - 80°	3608	99%
0° - 90°	3621	100%
Total	3630	100%

SINGLE UNIT: PERFORMANCE
HORIZONTAL FOOTCANDLES
INITIAL DOWNLIGHT ONLY

Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge
6.5 '	103 fc	7.2 '	34 fc
7.5 '	77 fc	8.3 '	26 fc
8.5 '	60 fc	9.4 '	20 fc
10.0 '	43 fc	11.1 '	15 fc
12.0 '	30 fc	13.3 '	10 fc
14.0 '	22 fc	15.5 '	7 fc
16.0 '	17 fc	17.7 '	6 fc
20.0 '	11 fc	22.1 '	4 fc

MULTIPLE UNITS: PERFORMANCE
80/50/20% REFLECTANCES
HORIZONTAL FOOTCANDLES AND WATTS/SQ FT

Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
		FC [+]	W/Sq. Ft.	FC [+]	W/Sq. Ft.
14'	8'	48	0.46	42	0.46
18'	10'	34	0.33	22	0.24
22'	12'	21	0.20	24	0.26
Delivered Illuminance Rating: (DIR)		105 FC per W/Sq. Ft.		93 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

Delivered Lumens: 3630
Luminaire Watts: 35
LER: 103.71

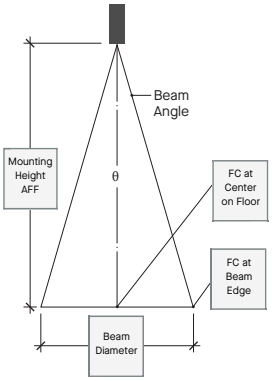
CP at 0° (Nadir): 4345
CRI: 80

Beam Angle: 58°
Spacing Ratio: 0.96

Lumen Multiplier: 10L x 0.20, 20L x 0.40, 30L x 0.60, 40L x 0.80
CCT Multiplier: 27K x 0.95, 30K x 0.98, 40K x 1.03

HOW TO USE PERFORMANCE DATA

SINGLE UNIT



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.

$FC_H = CP \times (\cos \theta) \div D^2$

Beam Diam. = ½ Beam Angle (Tan) x 2D

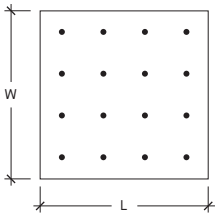
- CP — Candela at 0° (Nadir)
- Cos θ — Cosine of θ Angle
- D — Distance (Mounting Height AFF)
- FC_H — Footcandles, Horizontal
- Beam Angle — Cone of light to 50% max. CP
- Beam Diam. — Pattern of light at Beam Angle

MULTIPLE UNITS

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.

Delivered Illuminance Rating (DIR[e]):
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.

- To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio):
  FC = Chart Spacing^2 ÷ Different Spacing^2 x Chart FC
- To estimate Sq. Ft. per fixture for a specific target FC:
  Sq. Ft. / Fixture = Chart FC x Chart Spacing^2 ÷ Target FC



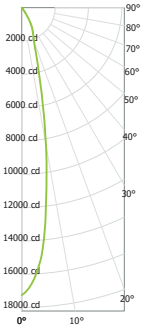
- To estimate Fixture Quantity in a room:
  Fixture Qty. = Sq. Ft. of Rm. ÷ Sq. Ft. per fixture
- To estimate Watts/Sq. Ft.:
  W/ Sq. Ft. = Luminaire Watts x Qty. ÷ Sq. Ft. of Rm.

STT4PC 4" SPOT TRACK LUMINAIRE

Spectrum Lighting

STT4PC 50L 35K ND xx xx LN4AGL

CANDLEPOWER CURVE
TEST SP-01363



INTENSITY
CANDELA
0° AZIMUTH

	0°
0°	17249
5°	14510
15°	3927
25°	1545
35°	340
45°	37
55°	36
90°	2

ZONAL LUMENS

0° - 10°	1171	35%
0° - 20°	2325	70%
0° - 30°	3007	90%
0° - 40°	3212	97%
0° - 60°	3269	98%
0° - 80°	3312	100%
0° - 90°	3316	100%
Total	3325	100%

SINGLE UNIT: PERFORMANCE
HORIZONTAL FOOTCANDLES
INITIAL DOWNLIGHT ONLY

Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge
6.5 '	408 fc	2.2 '	195 fc
7.5 '	307 fc	2.6 '	147 fc
8.5 '	239 fc	2.9 '	114 fc
10.0 '	172 fc	3.4 '	83 fc
12.0 '	120 fc	4.1 '	57 fc
14.0 '	88 fc	4.8 '	42 fc
16.0 '	67 fc	5.5 '	32 fc
20.0 '	43 fc	6.9 '	21 fc

MULTIPLE UNITS: PERFORMANCE
80/50/20% REFLECTANCES
HORIZONTAL FOOTCANDLES AND WATTS/SQ FT

Ceiling Height	Fixture Spacing	RCR 4		RCR 6	
		FC [+]	W/Sq. Ft.	FC [+]	W/Sq. Ft.
18'	4'	196	2.16	183	2.17
22'	5'	120	1.33	113	1.34
26'	6'	81	0.90	76	0.90
Delivered Illuminance Rating: (DIR)		91 FC per W/Sq. Ft.		84 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: 3325
Luminaire Watts: 35
LER: 95.00

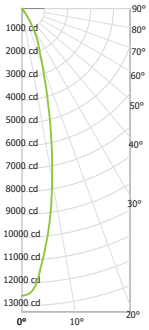
CP at 0° (Nadir): 17249
CRI: 80

Beam Angle: 20°
Spacing Ratio: 0.33

Lumen Multiplier: 10L x 0.20, 20L x 0.40, 30L x 0.60, 40L x 0.80
CCT Multiplier: 27K x 0.95, 30K x 0.98, 40K x 1.03

STT4PC 50L 35K MD xx xx LN4AGL

CANDLEPOWER CURVE
TEST SP-01361



INTENSITY
CANDELA
0° AZIMUTH

	0°
0°	12564
5°	10843
15°	4526
25°	1681
35°	276
45°	47
55°	35
90°	1

ZONAL LUMENS

0° - 10°	939	28%
0° - 20°	2199	67%
0° - 30°	2956	90%
0° - 40°	3172	96%
0° - 60°	3242	98%
0° - 80°	3284	99%
0° - 90°	3290	100%
Total	3301	100%

SINGLE UNIT: PERFORMANCE
HORIZONTAL FOOTCANDLES
INITIAL DOWNLIGHT ONLY

Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge
6.5 '	297 fc	2.8 '	139 fc
7.5 '	223 fc	3.2 '	105 fc
8.5 '	174 fc	3.6 '	81 fc
10.0 '	126 fc	4.2 '	59 fc
12.0 '	87 fc	5.1 '	41 fc
14.0 '	64 fc	5.9 '	30 fc
16.0 '	49 fc	6.8 '	23 fc
20.0 '	31 fc	8.5 '	15 fc

MULTIPLE UNITS: PERFORMANCE
80/50/20% REFLECTANCES
HORIZONTAL FOOTCANDLES AND WATTS/SQ FT

Ceiling Height	Fixture Spacing	RCR 3		RCR 5	
		FC [+]	W/Sq. Ft.	FC [+]	W/Sq. Ft.
18'	6'[*]	89	0.96	89	1.04
22'	7'	70	0.75	55	0.64
26'	8'	47	0.51	53	0.62
Delivered Illuminance Rating: (DIR)		93 FC per W/Sq. Ft.		85 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
[*] Exceeds Spacing Ratio by 3%

Delivered Lumens: 3301
Luminaire Watts: 35
LER: 94.31

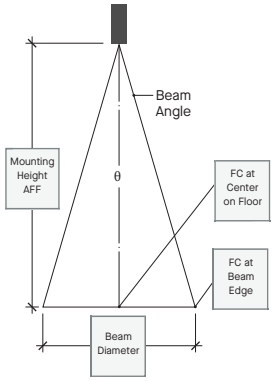
CP at 0° (Nadir): 12564
CRI: 80

Beam Angle: 24°
Spacing Ratio: 0.40

Lumen Multiplier: 10L x 0.20, 20L x 0.40, 30L x 0.60, 40L x 0.80
CCT Multiplier: 27K x 0.95, 30K x 0.98, 40K x 1.03

HOW TO USE PERFORMANCE DATA

SINGLE UNIT



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.

$FC_H = CP \times (\cos \theta) \div D^2$

Beam Diam. = ½ Beam Angle (Tan) x 2D

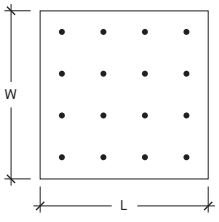
- CP — Candela at 0° (Nadir)
- Cos θ — Cosine of θ Angle
- D — Distance (Mounting Height AFF)
- FC_H — Footcandles, Horizontal
- Beam Angle — Cone of light to 50% max. CP
- Beam Diam. — Pattern of light at Beam Angle

MULTIPLE UNITS

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.

Delivered Illuminance Rating (DIR[e]):
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.

- To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio):
  FC = Chart Spacing^2 ÷ Different Spacing^2 x Chart FC
- To estimate Sq. Ft. per fixture for a specific target FC:
  Sq. Ft. / Fixture = Chart FC x Chart Spacing^2 ÷ Target FC



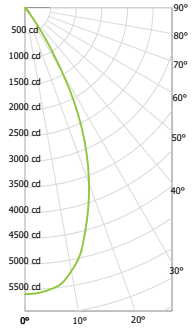
- To estimate Fixture Quantity in a room:
  Fixture Qty. = Sq. Ft. of Rm. ÷ Sq. Ft. per fixture
- To estimate Watts/Sq. Ft.:
  W/ Sq. Ft. = Luminaire Watts x Qty. ÷ Sq. Ft. of Rm.

STT4PC 4" SPOT TRACK LUMINAIRE

Spectrum Lighting

STT4PC 50L 35K WD xx xx LN4AGL

CANDLEPOWER CURVE
TEST SP-01365



INTENSITY
CANDELA
0° AZIMUTH

	0°
0°	5588
5°	5519
15°	4530
25°	2650
35°	468
45°	46
55°	33
90°	2

ZONAL LUMENS

0° - 10°	530	15%
0° - 20°	1798	52%
0° - 30°	2978	87%
0° - 40°	3309	96%
0° - 60°	3377	98%
0° - 80°	3415	100%
0° - 90°	3420	100%
Total	3431	100%

SINGLE UNIT: PERFORMANCE
HORIZONTAL FOOTCANDLES
INITIAL DOWNLIGHT ONLY

Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge
6.5 '	132 fc	5.9 '	50 fc
7.5 '	99 fc	6.8 '	38 fc
8.5 '	77 fc	7.7 '	29 fc
10.0 '	56 fc	9.0 '	21 fc
12.0 '	39 fc	10.8 '	15 fc
14.0 '	29 fc	12.6 '	11 fc
16.0 '	22 fc	14.4 '	8 fc
20.0 '	14 fc	18.0 '	5 fc

MULTIPLE UNITS: PERFORMANCE
80/50/20% REFLECTANCES
HORIZONTAL FOOTCANDLES AND WATTS/SQ FT

Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
		FC [+]	W/Sq. Ft.	FC [+]	W/Sq. Ft.
14'	6'	103	1.03	73	0.81
18'	8'	54	0.54	38	0.43
22'	10'	33	0.33	23	0.26
Delivered Illuminance Rating: (DIR)		100 FC per W/Sq. Ft.		90 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

Delivered Lumens: 3431
Luminaire Watts: 35
LER: 98.03

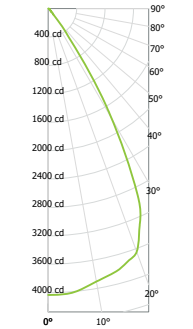
CP at 0° (Nadir): 5588
CRI: 80

Beam Angle: 49°
Spacing Ratio: 0.77

Lumen Multiplier: 10L x 0.20, 20L x 0.40, 30L x 0.60, 40L x 0.80
CCT Multiplier: 27K x 0.95, 30K x 0.98, 40K x 1.03

STT4PC 50L 35K XW xx xx LN4AGL

CANDLEPOWER CURVE
TEST SP-01367



INTENSITY
CANDELA
0° AZIMUTH

	0°
0°	4033
5°	4016
15°	3812
25°	3047
35°	586
45°	54
55°	31
90°	2

ZONAL LUMENS

0° - 10°	382	11%
0° - 20°	1448	43%
0° - 30°	2755	82%
0° - 40°	3229	96%
0° - 60°	3318	99%
0° - 80°	3353	100%
0° - 90°	3357	100%
Total	3367	100%

SINGLE UNIT: PERFORMANCE
HORIZONTAL FOOTCANDLES
INITIAL DOWNLIGHT ONLY

Mounting Distance	FC at Beam Center	Diameter at Beam Angle	FC at Beam Edge
6.5 '	95 fc	7.2 '	32 fc
7.5 '	72 fc	8.3 '	24 fc
8.5 '	56 fc	9.4 '	19 fc
10.0 '	40 fc	11.1 '	13 fc
12.0 '	28 fc	13.3 '	9 fc
14.0 '	21 fc	15.6 '	7 fc
16.0 '	16 fc	17.8 '	5 fc
20.0 '	10 fc	22.2 '	3 fc

MULTIPLE UNITS: PERFORMANCE
80/50/20% REFLECTANCES
HORIZONTAL FOOTCANDLES AND WATTS/SQ FT

Ceiling Height	Fixture Spacing	RCR 2		RCR 4	
		FC [+]	W/Sq. Ft.	FC [+]	W/Sq. Ft.
14'	8'	45	0.46	39	0.46
18'	10'	32	0.33	21	0.24
22'	12'	20	0.20	23	0.26
Delivered Illuminance Rating: (DIR)		98 FC per W/Sq. Ft.		86 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

Delivered Lumens: 3367
Luminaire Watts: 35
LER: 96.20

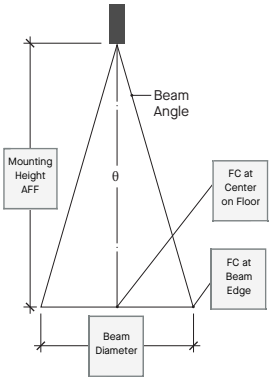
CP at 0° (Nadir): 4033
CRI: 80

Beam Angle: 58°
Spacing Ratio: 0.98

Lumen Multiplier: 10L x 0.20, 20L x 0.40, 30L x 0.60, 40L x 0.80
CCT Multiplier: 27K x 0.95, 30K x 0.98, 40K x 1.03

HOW TO USE PERFORMANCE DATA

SINGLE UNIT



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.

$FC_H = CP \times (\cos \theta) \div D^2$

Beam Diam. = ½ Beam Angle (Tan) x 2D

- CP — Candela at 0° (Nadir)
- Cos θ — Cosine of θ Angle
- D — Distance (Mounting Height AFF)
- FC_H — Footcandles, Horizontal
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MULTIPLE UNITS

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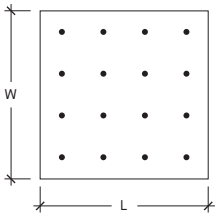

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- To estimate Watts/Sq. Ft.:
  W/ Sq. Ft. = Luminaire Watts x Qty. ÷ Sq. Ft. of Rm.