

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 | |
|--------|-----|-----|----|-------|-----|----|--|

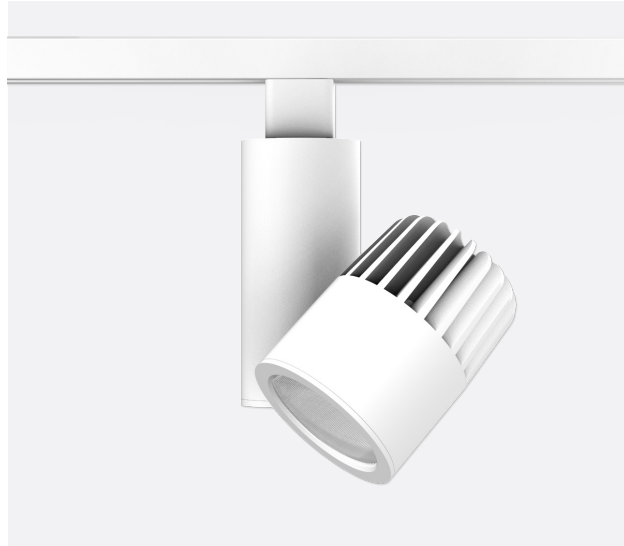
| SERIES | LUMENS ¹ | CCT | OPTICS | DRIVER / VOLTAGE | ADAPTOR | FINISH ² | ACCESSORIES ⁴ | | | |
|--|---------------------|-------------------|--|---|---|---|---|--------------------------------------|--|--|
| STT3PC | 80 CRI | | ND 19° MD 36° WD 43° XW 62° | E1 Electronic Driver, 120V DS2W1 1%, ELV/TRIAC 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

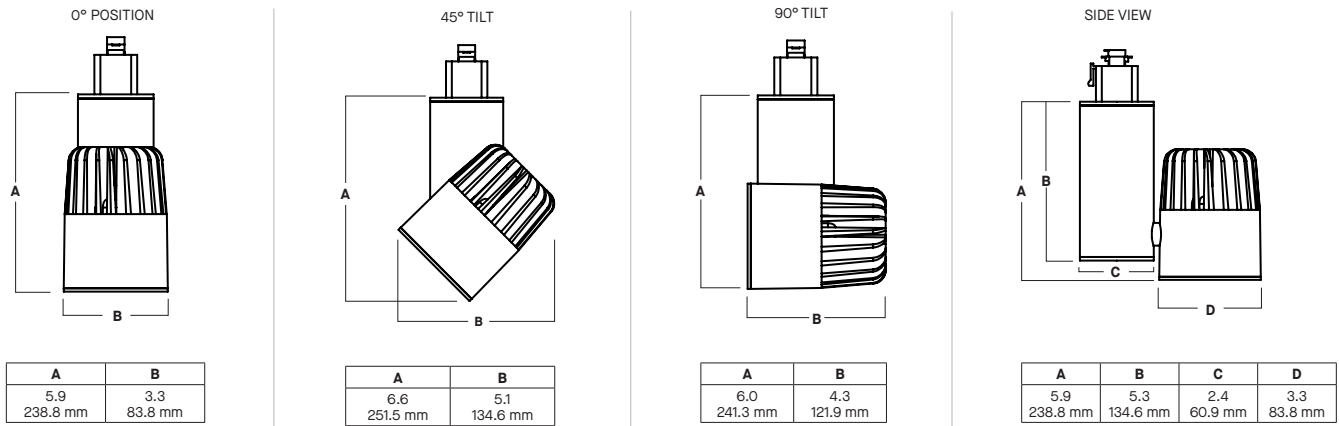


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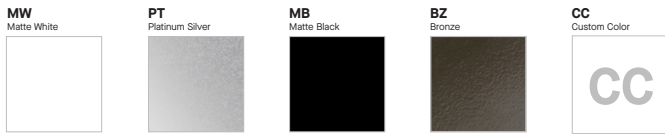
PROJECT: _____
 QUANTITY: _____ TYPE: _____



FIXTURE DIMENSIONS



FINISH



PAINT TIMES

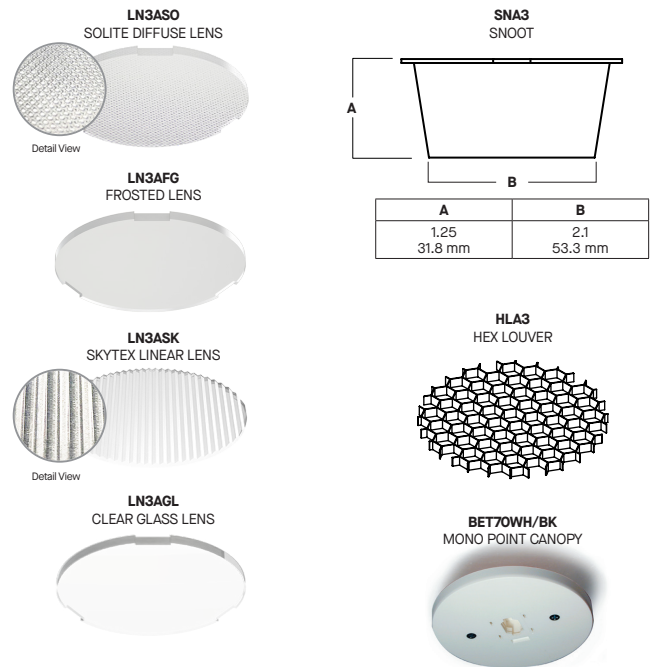
| TIER | COST | AVERAGE PAINT TIME* |
|----------------------------|-----------------|---------------------|
| Tier 1 - Standard Finishes | \$ | ⌚ |
| Custom Color | Contact Factory | Contact Factory |

*CONTACT FACTORY FOR SPECIFIC PRODUCT LEAD TIMES

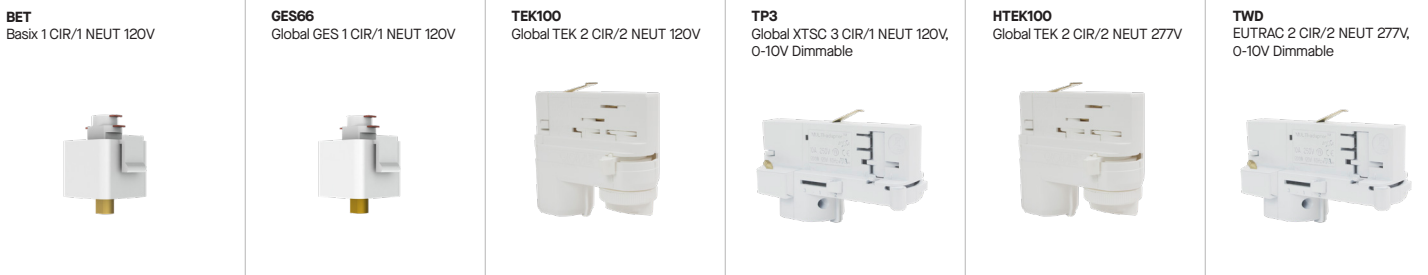
STANDARD PRODUCT FINISHES

| 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 | | | | | |
| | 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. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|----------------------|--|---|---------------------|-----------------|-----------|--|-------|--|------|-----------|------|-----------|-----|----|----|------|----|------|-----|----|----|------|----|------|-----|----|----|------|----|------|-------------------------------------|--|---------------------|--|---------------------|--|--|--|--|--|--|--|
| | 0° | 0° - 10° 716 27% | 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>72</td> <td>0.83</td> <td>71</td> <td>0.90</td> </tr> <tr> <td>22'</td> <td>7'</td> <td>56</td> <td>0.65</td> <td>44</td> <td>0.56</td> </tr> <tr> <td>26'</td> <td>8'</td> <td>38</td> <td>0.44</td> <td>30</td> <td>0.38</td> </tr> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">86 FC per W/Sq. Ft.</td> <td colspan="2">79 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' | 72 | 0.83 | 71 | 0.90 | 22' | 7' | 56 | 0.65 | 44 | 0.56 | 26' | 8' | 38 | 0.44 | 30 | 0.38 | Delivered Illuminance Rating: (DIR) | | 86 FC per W/Sq. Ft. | | 79 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' | 72 | | 0.83 | 71 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22' | 7' | 56 | | 0.65 | 44 | 0.56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 26' | 8' | 38 | | 0.44 | 30 | 0.38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Delivered Illuminance Rating: (DIR) | | 86 FC per W/Sq. Ft. | | 79 FC per W/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: $\text{Fixture Qty.} = \text{Sq. Ft. of Rm.} \div \text{Sq. Ft. per fixture}$ - To estimate Watts/Sq. Ft.: $\text{W/Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}$ |

STT3PC 40L 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------------------|-----------------------|---|---|-------------------|------------------------|-----------------|----|--------|------|-------|-----|-------|------|-------|-----|-------|------|-------|-----|-------|------|-------|-----|-------|-------|-------|-----|-------|-------|------|-----|-------|-------|------|-----|------|-------|------|--|----------------|-----------------|-------|--|-------|--|--|--|------|-----------|------|-----------|-----|----|----|------|----|------|-----|----|----|------|----|------|-----|-----|----|------|----|------|-------------------------------------|--|---------------------|--|---------------------|--|
| | 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>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> </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> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">93 FC per W/Sq. Ft.</td> <td colspan="2">84 FC per W/Sq. Ft.</td> </tr> </tbody> </table> | Ceiling Height | Fixture Spacing | RCR 2 | | RCR 4 | | | | FC * | W/Sq. Ft. | FC * | W/Sq. Ft. | 14' | 6' | 83 | 0.89 | 59 | 0.71 | 18' | 8' | 43 | 0.47 | 31 | 0.37 | 22' | 10' | 27 | 0.29 | 30 | 0.36 | Delivered Illuminance Rating: (DIR) | | 93 FC per W/Sq. Ft. | | 84 FC per W/Sq. Ft. | |
| | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Delivered Illuminance Rating: (DIR) | | 93 FC per W/Sq. Ft. | | 84 FC per W/Sq. Ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45° 54 | 0° - 90° 2751 100% | 20' 16 fc 13.5' 7 fc | 84 FC per W/Sq. Ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55° 42 | Total 2751 100% | 24' 11 fc 16.2' 5 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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

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> <td></td> <td></td> <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> <tr> <td colspan="2">Delivered Illuminance Rating: (DIR)</td> <td colspan="2">92 FC per W/Sq. Ft.</td> <td colspan="2">80 FC per W/Sq. Ft.</td> </tr> </tbody> </table> | Ceiling Height | Fixture Spacing | RCR 2 | | RCR 4 | | | | FC * | W/Sq. Ft. | FC * | W/Sq. Ft. | 14' | 8' | 36 | 0.40 | 32 | 0.40 | 18' | 10' | 26 | 0.28 | 17 | 0.21 | 22' | 12' | 16 | 0.17 | 18 | 0.23 | Delivered Illuminance Rating: (DIR) | | 92 FC per W/Sq. Ft. | | 80 FC per W/Sq. Ft. | |
| | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Delivered Illuminance Rating: (DIR) | | 92 FC per W/Sq. Ft. | | 80 FC per W/Sq. Ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45° 221 | 0° - 90° 2789 100% | 20' 7 fc 24.4' 2 fc | 80 FC per W/Sq. Ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55° 81 | Total 2789 100% | 24' 5 fc 29.3' 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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. = ½ Beam Angle (Tan) x 2D</p> <ul style="list-style-type: none"> • CP Candela at 0° (Nadir) • Cos θ Cosine of θ Angle • D Distance (Mounting Height AFF) • FC_H Footcandles, Horizontal • Beam Angle Cone of light to 50% max. CP • Beam Diam. Pattern of light at Beam Angle | <p>Square grid layout of multiple luminaires in unfurnished, square rooms of different proportions (Room Cavity Ratios) with 80/50/20% room surface reflectances. 2' Suspension Length to aperture. Initial average illumination (FC) calculated at 2.5' above floor, using Zonal Cavity Method. W/Sq. Ft. of layout shown for each ceiling height and RCR.</p> <p>Delivered Illuminance Rating (DIR*): System performance indicator expressed as ratio of approximate initial FC per W/Sq. Ft. delivered to horizontal plane below, for the range of ceiling heights indicated.</p> <ul style="list-style-type: none"> - To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio): $FC = \text{Chart Spacing}^2 \div \text{Different Spacing}^2 \times \text{Chart FC}$ - To estimate Sq. Ft. per fixture for a specific target FC: $\text{Sq. Ft.} / \text{Fixture} = \text{Chart FC} \times \text{Chart Spacing}^2 \div \text{Target FC}$ <ul style="list-style-type: none"> - To estimate Fixture Quantity in a room: $\text{Fixture Qty.} = \text{Sq. Ft. of Rm.} \div \text{Sq. Ft. per fixture}$ - To estimate Watts/Sq. Ft.: $\text{W/Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}$ |

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% | <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>160 fc</td><td>3.3'</td><td>75 fc</td></tr> <tr><td>10'</td><td>103 fc</td><td>4.1'</td><td>48 fc</td></tr> <tr><td>12'</td><td>71 fc</td><td>5.0'</td><td>33 fc</td></tr> <tr><td>14'</td><td>52 fc</td><td>5.8'</td><td>25 fc</td></tr> <tr><td>16'</td><td>40 fc</td><td>6.6'</td><td>19 fc</td></tr> <tr><td>20'</td><td>26 fc</td><td>8.3'</td><td>12 fc</td></tr> <tr><td>24'</td><td>18 fc</td><td>9.9'</td><td>8 fc</td></tr> <tr><td>28'</td><td>13 fc</td><td>11.6'</td><td>6 fc</td></tr> </tbody> </table> | Mounting Distance | FC at Beam Center | Diameter at Beam Angle | FC at Beam Edge | 8' | 160 fc | 3.3' | 75 fc | 10' | 103 fc | 4.1' | 48 fc | 12' | 71 fc | 5.0' | 33 fc | 14' | 52 fc | 5.8' | 25 fc | 16' | 40 fc | 6.6' | 19 fc | 20' | 26 fc | 8.3' | 12 fc | 24' | 18 fc | 9.9' | 8 fc | 28' | 13 fc | 11.6' | 6 fc | <table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 4</th> <th colspan="2">RCR 6</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr><td>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> </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 |
| | Mounting Distance | FC at Beam Center | | Diameter at Beam Angle | FC at Beam Edge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8' | 160 fc | | 3.3' | 75 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10' | 103 fc | | 4.1' | 48 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12' | 71 fc | | 5.0' | 33 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14' | 52 fc | | 5.8' | 25 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16' | 40 fc | | 6.6' | 19 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20' | 26 fc | | 8.3' | 12 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 24' | 18 fc | | 9.9' | 8 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 28' | 13 fc | | 11.6' | 6 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0° 10253 | 0° - 20° 1764 64% | 8' 160 fc 3.3' 75 fc | 18' 4' 158 2.16 146 2.17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5° 8969 | 0° - 30° 2371 85% | 10' 103 fc 4.1' 48 fc | 22' 5' 97 1.33 89 1.34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15° 3604 | 0° - 40° 2547 92% | 12' 71 fc 5.0' 33 fc | 26' 6' 65 0.90 60 0.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25° 1365 | 0° - 60° 2636 95% | 14' 52 fc 5.8' 25 fc | Delivered Illuminance Rating: (DIR) 73 FC per W/Sq. Ft. 67 FC per W/Sq. Ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | * 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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% | <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>129 fc</td><td>4.2'</td><td>59 fc</td></tr> <tr><td>10'</td><td>83 fc</td><td>5.3'</td><td>37 fc</td></tr> <tr><td>12'</td><td>58 fc</td><td>6.3'</td><td>26 fc</td></tr> <tr><td>14'</td><td>42 fc</td><td>7.4'</td><td>19 fc</td></tr> <tr><td>16'</td><td>32 fc</td><td>8.4'</td><td>15 fc</td></tr> <tr><td>20'</td><td>21 fc</td><td>10.5'</td><td>9 fc</td></tr> <tr><td>24'</td><td>14 fc</td><td>12.6'</td><td>7 fc</td></tr> <tr><td>28'</td><td>11 fc</td><td>14.7'</td><td>5 fc</td></tr> </tbody> </table> | Mounting Distance | FC at Beam Center | Diameter at Beam Angle | FC at Beam Edge | 8' | 129 fc | 4.2' | 59 fc | 10' | 83 fc | 5.3' | 37 fc | 12' | 58 fc | 6.3' | 26 fc | 14' | 42 fc | 7.4' | 19 fc | 16' | 32 fc | 8.4' | 15 fc | 20' | 21 fc | 10.5' | 9 fc | 24' | 14 fc | 12.6' | 7 fc | 28' | 11 fc | 14.7' | 5 fc | <table border="1"> <thead> <tr> <th rowspan="2">Ceiling Height</th> <th rowspan="2">Fixture Spacing</th> <th colspan="2">RCR 3</th> <th colspan="2">RCR 5</th> </tr> <tr> <th>FC *</th> <th>W/Sq. Ft.</th> <th>FC *</th> <th>W/Sq. Ft.</th> </tr> </thead> <tbody> <tr><td>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> </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 |
| | Mounting Distance | FC at Beam Center | | Diameter at Beam Angle | FC at Beam Edge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8' | 129 fc | | 4.2' | 59 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10' | 83 fc | | 5.3' | 37 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12' | 58 fc | | 6.3' | 26 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14' | 42 fc | | 7.4' | 19 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16' | 32 fc | | 8.4' | 15 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20' | 21 fc | | 10.5' | 9 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 24' | 14 fc | | 12.6' | 7 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 28' | 11 fc | | 14.7' | 5 fc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0° 8285 | 0° - 20° 1796 64% | 8' 129 fc 4.2' 59 fc | 18' 6' 75 0.96 74 1.04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5° 7737 | 0° - 30° 2430 86% | 10' 83 fc 5.3' 37 fc | 22' 7' 58 0.75 45 0.64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15° 4045 | 0° - 40° 2610 93% | 12' 58 fc 6.3' 26 fc | 26' 8' 39 0.51 31 0.43 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25° 1390 | 0° - 60° 2693 96% | 14' 42 fc 7.4' 19 fc | Delivered Illuminance Rating: (DIR) 78 FC per W/Sq. Ft. 71 FC per W/Sq. Ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | * 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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. = $\frac{1}{2}$ Beam Angle (Tan) x 2D</p> <ul style="list-style-type: none"> • CP Candela at 0° (Nadir) • Cos θ Cosine of θ Angle • D Distance (Mounting Height AFF) • FC_H Footcandles, Horizontal • Beam Angle Cone of light to 50% max. CP • Beam Diam. Pattern of light at Beam Angle | <p>Square grid layout of multiple luminaires in unfurnished, square rooms of different proportions (Room Cavity Ratios) with 80/50/20% room surface reflectances. 2' Suspension Length to aperture. Initial average illumination (FC) calculated at 2.5' above floor, using Zonal Cavity Method. W/Sq. Ft. of layout shown for each ceiling height and RCR.</p> <p>Delivered Illuminance Rating (DIR*): System performance indicator expressed as ratio of approximate initial FC per W/Sq. Ft. delivered to horizontal plane below, for the range of ceiling heights indicated.</p> <ul style="list-style-type: none"> • To estimate FC for Fixture Spacing that is different than shown (do not exceed Spacing Ratio): $FC = \text{Chart Spacing}^2 \div \text{Different Spacing}^2 \times \text{Chart FC}$ • To estimate Sq. Ft. per fixture for a specific target FC: $\text{Sq. Ft.} / \text{Fixture} = \text{Chart FC} \times \text{Chart Spacing}^2 \div \text{Target FC}$ <ul style="list-style-type: none"> • To estimate Fixture Quantity in a room: $\text{Fixture Qty.} = \text{Sq. Ft. of Rm.} \div \text{Sq. Ft. per fixture}$ • To estimate Watts/Sq. Ft.: $\text{W/Sq. Ft.} = \text{Luminaire Watts} \times \text{Qty.} \div \text{Sq. Ft. of Rm.}$ |

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"> <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> <td>FC *</td> <td>W/Sq. Ft.</td> <td>FC *</td> <td>W/Sq. Ft.</td> </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> </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 |
| | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 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"> <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> <td>FC *</td> <td>W/Sq. Ft.</td> <td>FC *</td> <td>W/Sq. Ft.</td> </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> </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 |
| | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 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. |