



Fixture scale, performance, lighting quality and budget—why compromise? **Chopstick** offers small size with big lighting performance and a price point that makes it ideal for use in many different types of spaces.

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Line ID: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

Ordering guide

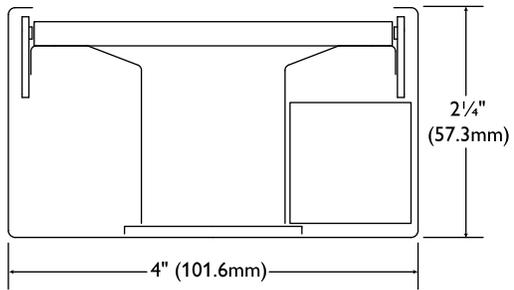
example: 7505LBEQN087DEW, A1-24

| Family                             | Source       | CRI/CCT <sup>1</sup>   | Lumens <sup>1</sup>  | Optics <sup>3</sup>  | Distribution        | Run Length  | Wiring <sup>2</sup>   | Voltage                                | Driver                             |
|------------------------------------|--------------|--|--|--|---------------------|---|---|--|------------------------------------|
| <b>7505</b>                        | <b>L</b>     |  |  |  | <b>N</b>            |   |   |  | <b>E</b>                           |
| <b>7505</b> Chopstick<br>Suspended | <b>L</b> LED | <b>A</b> 80CRI/4000K<br><b>B</b> 80CRI/3500K<br><b>C</b> 80CRI/3000K | <b>A</b> 6500 lm/4ft<br><b>C</b> 4800 lm/4ft<br><b>E</b> 3400 lm/4ft | <b>Q</b> MesoOptics Lens<br>(3ft or 4ft windows)<br><b>S</b> MesoOptics Lens<br>(6ft or 4ft windows) | <b>N</b> Lightguide | <b>04</b> 4ft<br><b>06</b> 6ft<br><b>08</b> 8ft<br><b>xx</b> Continuous Run<br>(2ft increments) | <b>7</b> 1cct Dimming<br><b>E</b> 2cct A/B Dimming<br>(Alt. 4ft sections)<br><b>M</b> 1cct Dimming +<br>EM Wiring<br><b>N</b> 1cct Dimming +<br>EM Batt. Pack | <b>D</b> UNV 120-277V<br><b>3</b> 347V | <b>E</b> Advance<br>0-10V (1% Dim) |
| Finish                             | Mount Type   |  | Suspension   |  |                     |   |   |  |                                    |
| <b>W</b> Standard White            | <b>A1</b>    | Non-accessible ceiling, 0°-15° Slope Mount                           | <b>24</b>  | 24"  |                     |   |   |  |                                    |
| <b>T</b> Titanium Silver           | <b>A2</b>    | T-grid Fixed Position Mount  | <b>48</b>  | 48"  |                     |   |   |  |                                    |
| <b>B</b> Black                     | <b>A3</b>    | Non-accessible ceiling, 0°-90° Slope Mount                           | <b>96</b>  | 96"  |                     |   |   |  |                                    |
| <b>C</b> Custom                    | <b>A5</b>    | T-grid 24" Span Mount (non tegular tile only)                        | <b>144</b>   | 144"   |                     |   |   |  |                                    |
|                                    | <b>A6-1</b>  | T-grid On-grid Mount 15/16" (non tegular tile only)                  |  |  |                     |   |   |  |                                    |
|                                    | <b>A6-2</b>  | T-grid On-grid Mount 9/16" (non tegular tile only)                   |  |  |                     |   |   |  |                                    |
|                                    | <b>A6-3</b>  | T-grid On-grid Mount 9/16" x 5/16" (slot tee & tegular tile)         |  |  |                     |   |   |  |                                    |

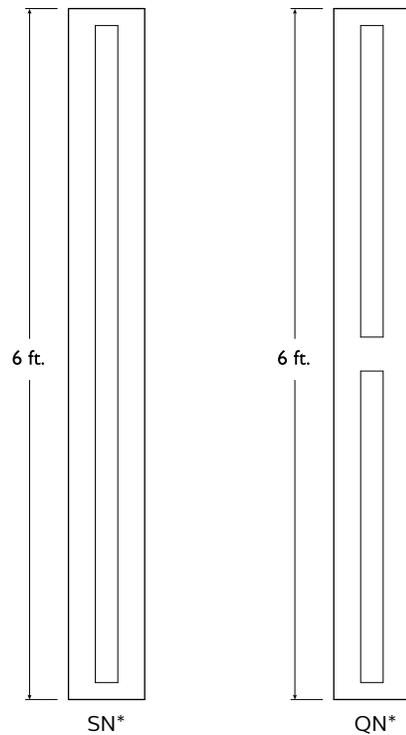
1. Nominal values within a range. Consult photometry data for CRI, color temp, lumens & distribution of chosen configuration.
2. Not all wiring types are available with all configurations. Consult Ledalite for a complete list of available options.
3. "S" Optics only available with 6ft modules as an alternative to two 3ft optical windows. 4ft and 8ft modules will continue to have 4ft optical windows.

# Chopstick linear suspended

## Cross Section View

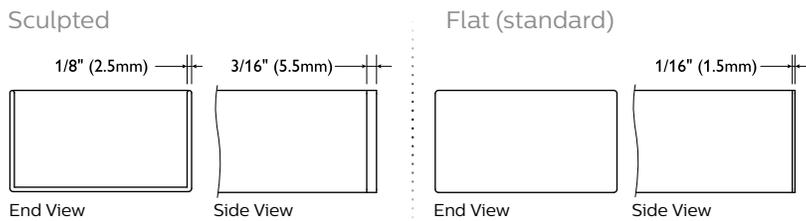


## Cross Section View – Optics Details

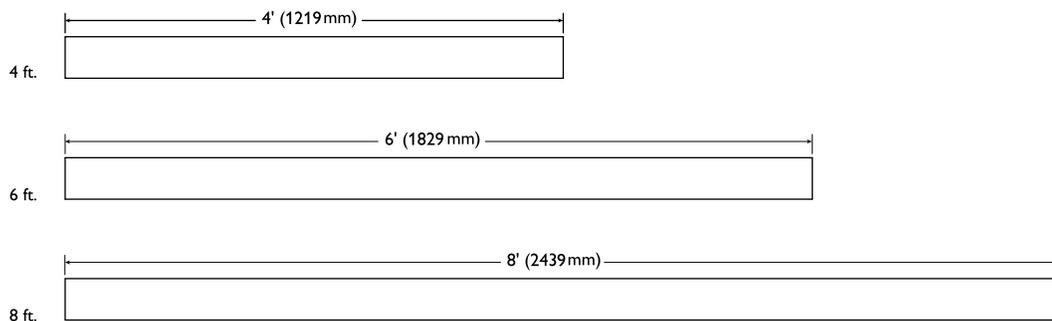


\* SN optic is only available in 6ft modules.

## Cross Section View – Endcaps



## Module Details & Dimensions



# Chopstick linear suspended

## Specifications

### Optical System

A low-profile light guide panel is edge lit by an LED array. The light guide couples and transmits the light via total internal reflection, then the etched surface of the panel optimizes the light extraction to create a semi-indirect (suspended) or direct/indirect (wall) distribution. Light is purified and controlled by MesoOptics film as it passes through the non-glare acrylic lens.

### Endcaps

Diecast aluminum endcaps, available in flat (standard) or edge sculpted.

### Finish

High quality powder coated, available in matte white, black or titanium silver. Other factory and custom colors available on request.

### Housing

Precision formed 20 gauge cold-rolled steel.

### Weight

Maximum 3.0lb/ft.

### Electrical

Factory pre-wired to section ends with quick-wire connectors.

### QuickShip

Upon request, Chopstick suspended can be made-to-order and shipped in 10-working days from receipt of order. Some configurations excluded. Limit of 500' linear feet per order.

### Standard Driver

Advance Xitanium 0-10V, 1-100%. Class 2 rated output. Consult Ledalite for other available drivers.

### Standard Battery Pack

Bodine, 90 min, 10W, Class 2 rated output, Emergency lumen output = 10W x luminaire efficacy x 1.1. Typical output: suspended 1100lm, wall 900lm.

### Lumen Maintenance

LEDs have been tested by the manufacturer in accordance with IESNA LM-80-08. At an ambient temperature of 25°C, the LED lumen maintenance expectation according to IES TM-21-11 is: L90 (10k) >60,000 hrs (Reported methodology).

### Source Color

LEDs rated for color rendering CRI >80, R9 >0 and fixture to fixture color accuracy within 2 SDCM.

### Mounting

Suspended: tamper-resistant aircraft cable grippers provide infinite vertical adjustment capability. Aircraft cable, crimp and cable gripper are independently tested to meet stringent safety requirements.

### Joints

Self-aligning joining system with hands-free pre-joining wire access.

### Approvals

Certified to UL, CSA and IES standards. Suspended versions without battery packs are DesignLights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers under DLC family code WWBYU ([www.designlights.org/QPL](http://www.designlights.org/QPL)).

### Warranty

Signify indoor professional luminaires 5 year LED warranty: [www.signify.com/warranties](http://www.signify.com/warranties).

### Environment

Rated for dry or damp locations in operating ambient temperatures 0-40°C (32-104°F). Certain luminaire components may be adversely affected by contaminants. Damage caused by sulfur, chlorine, petroleum based solutions or other contaminants in the area of operation are not covered under warranty. Not suitable for natatorium environments.

## Photometrics

### MesoOptics + Lightguide Distribution (QN & SN)

(Click "PDF" and "IES" text to Download)

| Lumen Package | Nominal CRI & CCT | "Flux (lm) | Watts (W) | Efficacy (LPW) | CRI | R9 | RP-1 VDT        | DLC*     | Photometry Report   | IES File            |
|---------------|-------------------|------------|-----------|----------------|-----|----|-----------------|----------|---------------------|---------------------|
| 6500lm/4ft    | 80CRI, 4000K      | 6697       | 57.2      | 117.1          | 84  | 16 | Critical spaces | Standard | <a href="#">PDF</a> | <a href="#">IES</a> |
|               | 80CRI, 3500K      | 6450       | 57.5      | 112.2          | 83  | 12 | Critical spaces | Standard | <a href="#">PDF</a> | <a href="#">IES</a> |
|               | 80CRI, 3000K      | 6565       | 57.8      | 113.6          | 85  | 17 | Critical spaces | Standard | <a href="#">PDF</a> | <a href="#">IES</a> |
| 4800lm/4ft    | 80CRI, 4000K      | 4882       | 40.7      | 120.0          | 84  | 16 | Critical spaces | Standard | <a href="#">PDF</a> | <a href="#">IES</a> |
|               | 80CRI, 3500K      | 4702       | 40.9      | 115.0          | 83  | 12 | Critical spaces | Standard | <a href="#">PDF</a> | <a href="#">IES</a> |
|               | 80CRI, 3000K      | 4797       | 41.1      | 116.7          | 85  | 17 | Critical spaces | Standard | <a href="#">PDF</a> | <a href="#">IES</a> |
| 3400lm/4ft    | 80CRI, 4000K      | 3503       | 28.1      | 124.7          | 84  | 16 | Critical spaces | Standard | <a href="#">PDF</a> | <a href="#">IES</a> |
|               | 80CRI, 3500K      | 3373       | 28.3      | 119.2          | 83  | 12 | Critical spaces | Standard | <a href="#">PDF</a> | <a href="#">IES</a> |
|               | 80CRI, 3000K      | 3409       | 28.4      | 120.0          | 85  | 17 | Critical spaces | Standard | <a href="#">PDF</a> | <a href="#">IES</a> |

\*DLC is only available for 4ft, 6ft & 8ft lengths (standalone or continuous) and with Advance 0-10V (1% dim) drivers. EM Batt. Packs are also not available on DLC.

# Chopstick linear suspended

## Photometrics

| CANDELA DISTRIBUTION |     |      |     |      |     | Flux   |
|----------------------|-----|------|-----|------|-----|--------|
|                      | 0   | 22.5 | 45  | 67.5 | 90  | Lumens |
| 0                    | 104 | 104  | 104 | 104  | 104 |        |
| 5                    | 104 | 105  | 107 | 109  | 109 | 10     |
| 15                   | 112 | 116  | 125 | 133  | 134 | 36     |
| 25                   | 122 | 131  | 147 | 159  | 161 | 67     |
| 35                   | 123 | 132  | 143 | 148  | 147 | 86     |
| 45                   | 98  | 105  | 103 | 99   | 97  | 78     |
| 55                   | 64  | 72   | 68  | 65   | 64  | 60     |
| 65                   | 38  | 46   | 43  | 42   | 41  | 42     |
| 75                   | 17  | 22   | 21  | 19   | 18  | 22     |
| 85                   | 5   | 11   | 11  | 9    | 7   | 9      |
| 90                   | 0   | 0    | 0   | 0    | 0   |        |
| 95                   | 28  | 91   | 123 | 151  | 173 | 135    |
| 105                  | 194 | 279  | 396 | 518  | 568 | 411    |
| 115                  | 365 | 441  | 579 | 734  | 796 | 573    |
| 125                  | 457 | 517  | 647 | 788  | 844 | 579    |
| 135                  | 482 | 528  | 626 | 733  | 773 | 486    |
| 145                  | 473 | 509  | 573 | 641  | 667 | 361    |
| 155                  | 454 | 481  | 518 | 556  | 570 | 240    |
| 165                  | 439 | 454  | 478 | 493  | 498 | 135    |
| 175                  | 432 | 438  | 445 | 453  | 458 | 43     |
| 180                  | 439 | 439  | 439 | 439  | 439 |        |

\*Photometric data shown is for 3400 lm/4ft, 3500K, 80 CRI configuration.

| COEFFICIENTS OF UTILIZATION (%) |    |    |    |    |    |    |    |    |    |    |    |   |   |
|---------------------------------|----|----|----|----|----|----|----|----|----|----|----|---|---|
| Pc---                           | 80 |    |    |    | 70 |    |    |    | 50 |    |    |   | 0 |
| Pw---                           | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 50 | 30 | 10 | 0  | 0 |   |
| RCR                             |    |    |    |    |    |    |    |    |    |    |    |   |   |
| 0                               | 98 | 98 | 98 | 98 | 86 | 86 | 86 | 62 | 62 | 62 | 12 |   |   |
| 1                               | 89 | 85 | 82 | 78 | 78 | 74 | 72 | 54 | 53 | 51 | 10 |   |   |
| 2                               | 81 | 74 | 69 | 64 | 71 | 65 | 60 | 48 | 45 | 42 | 9  |   |   |
| 3                               | 74 | 65 | 58 | 53 | 64 | 57 | 52 | 42 | 38 | 35 | 7  |   |   |
| 4                               | 68 | 58 | 50 | 45 | 59 | 50 | 44 | 37 | 33 | 30 | 6  |   |   |
| 5                               | 62 | 51 | 43 | 38 | 54 | 45 | 38 | 33 | 29 | 25 | 5  |   |   |
| 6                               | 57 | 45 | 38 | 32 | 49 | 40 | 34 | 29 | 25 | 22 | 5  |   |   |
| 7                               | 52 | 41 | 33 | 28 | 45 | 36 | 30 | 27 | 22 | 19 | 4  |   |   |
| 8                               | 48 | 37 | 30 | 25 | 42 | 32 | 26 | 24 | 20 | 17 | 4  |   |   |
| 9                               | 45 | 33 | 26 | 22 | 39 | 29 | 23 | 22 | 18 | 15 | 3  |   |   |
| 10                              | 42 | 30 | 24 | 19 | 36 | 27 | 21 | 20 | 16 | 13 | 3  |   |   |

| ZONAL LUMEN SUMMARY |        |          |        |
|---------------------|--------|----------|--------|
| Zone                | Lumens | %Fixture | %Lamp  |
| 0-30                | 113    | 3.3%     | 3.3%   |
| 0-40                | 199    | 5.9%     | 5.9%   |
| 0-60                | 337    | 10.0%    | 10.0%  |
| 0-90                | 411    | 12.2%    | 12.2%  |
| 90-130              | 1698   | 50.3%    | 50.3%  |
| 90-150              | 2545   | 75.4%    | 75.4%  |
| 90-180              | 2963   | 87.8%    | 87.8%  |
| 0-180               | 3373   | 100.0%   | 100.0% |

| Electrical                   |      |       |      |       |  |  |
|------------------------------|------|-------|------|-------|--|--|
| 120V: P(W), I(A), THD(%), PF | 28.3 | 0.238 | 8.0  | 0.990 |  |  |
| 277V: P(W), I(A), THD(%), PF | 28.2 | 0.106 | 11.0 | 0.959 |  |  |
| 347V: P(W), I(A), THD(%), PF | 27.8 | 0.083 | 10.0 | 0.967 |  |  |

| AVG LUMINANCE (cd/m <sup>2</sup> ) |      |      |      |
|------------------------------------|------|------|------|
|                                    | 0    | 45   | 90   |
| 0                                  | 3024 | 3024 | 3024 |
| 5                                  | 3038 | 3131 | 3188 |
| 15                                 | 3363 | 3757 | 4037 |
| 25                                 | 3925 | 4712 | 5177 |
| 35                                 | 4356 | 5078 | 5210 |
| 45                                 | 4029 | 4250 | 3971 |
| 55                                 | 3256 | 3439 | 3222 |
| 65                                 | 2620 | 2976 | 2821 |
| 75                                 | 1892 | 2351 | 1998 |
| 85                                 | 1763 | 3508 | 2216 |

