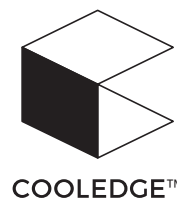
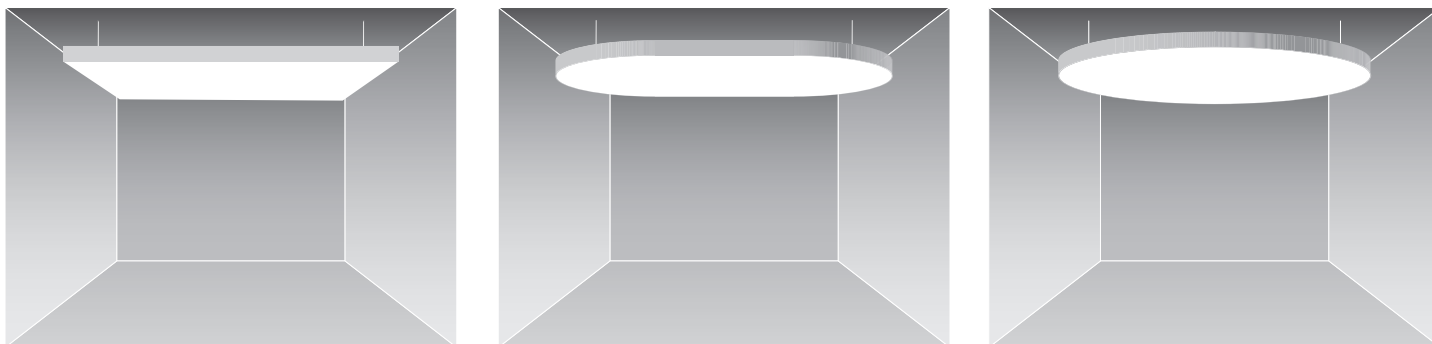


SKYSPAN SUSPENDED: SPECIFICATIONS



| | | | |
|--------------|--|----------------|------------------|
| PROJECT | | REFERENCE TYPE | |
| SPECIFIED BY | | QUANTITY | |
| DATE | | NOTE | Luminous Ceiling |

SKYSPAN - SUSPENDED STANDARD CONFIGURATION



Large area luminaires that are ideal for open plan spaces with higher ceilings or exposed elements. Option for additional sound absorption allows lighting and acoustic performance to be combined into a single solution.

GENERAL

| | |
|---------------------------------|--|
| Mounting Type | Surface Mount |
| Input Voltage | Nom. 120-277 VAC |
| Diffuser Material | Polyester Woven Fabric (coated) - Standard (other options available) |
| Frame Material | Extruded Aluminum |
| Light Source (Luminous Ceiling) | Cooledge TILE Products |
| Dust Ply Included | No (available upon request) |
| Maximum Seamless Dimensions | 15.5ft (4.7m) x 161ft (49m) (WxL) |
| Frame Height | 5.3 in (135mm) |
| Bend Radius (Curves) | Minimum 15" (380mm) |
| Average Weight | 10' x 10' = 1.2lb/sqft (3m x 3m = 5.9 kg/m ²) |

SPECIFICATION

A luminous surface of dimensions aa x bb consisting of a lighting system, woven polyester light emitting diffuser, and aluminum profile suspended from the ceiling surface with cables or rods.

The luminous ceiling fixture(s) forms a single or series of uniformly diffuse and seamless light emitting surfaces; providing a minimum of xx fc (lux) on the horizontal workplane; and are installable in occupied premises, without need for heating devices or water.

The surface material(s) is of a coated polyester fabric with a fire rating ASTM E 84 Class A /EN:3501-1 Class B/CAN ULC S102.2.

Light output from the luminous surface is CRI>90; provides flux within 10% of nominal and has a color consistency of 2 SDCM over the entire surface. (Single CCT & Tunable White)

Cooledge SkySpan systems are UL Listed and/or CE Compliant.

FEATURES

- **Wide Area Coverage:** Large scale luminous surfaces suspended with cable or rods bring the feeling of natural light in a more traditional form
- **Curves & Rounds:** A bendable profile allows curved shapes, rounded corners and circles with radii down to 15" (380mm)
- **Immersive Illumination:** A large luminous surface delivers a surprising amount of illumination without visual discomfort
- **Adaptable:** Choice of tunable white, dim-to-warm, W+RGB or static color temperature
- **Code Friendly:** Fire-rated polyester fabric and a fully certified lighting system eliminate inspection challenges
- **Acoustic Performance:** Exceptional sound absorption eliminates the need for acoustic baffles or clouds in open plan

SKYSPAN SUSPENDED: SPECIFICATIONS

PHOTOMETRICS¹ (SINGLE CCT & TUNABLE WHITE)

The following assumes Cooledge's standard smooth white fabric material as the primary luminous ceiling diffuser.

| | |
|---|---|
| Distribution | Lambertian |
| Light Output ² (lm/sqft) *Available in 3000K, 3500K, 4000K, and Tunable White 2700K-5700K only | Extra High Flux (XHF) = 590 High Flux (HF) = 395 *Medium High Flux (MHF) = 305 Medium Flux (MF) = 200 *Low Medium Flux (LMF) = 150 Low Flux (LF) = 100 *Eco Power (ECO) = 65 |
| Light Output ² (lm/m ²) *Available in 3000K, 3500K, 4000K, and Tunable White 2700K-5700K only | Extra High Flux (XHF) = 6390 High Flux (HF) = 4260 *Medium High Flux (MHF) = 3280 Medium Flux (MF) = 2130 *Low Medium Flux (LMF) = 1620 Low Flux (LF) = 1065 *Eco Power (ECO) = 700 |
| Correlated Color Temperature (CCT) | 2200K, 2700K, 3000K, 3500K, 4000K, 5700K, Tunable White 2700K-5700K, 2200K-3500K Dim-to-Warm 3500K-2200K |
| Color Rendering Index (CRI) | ≥ 90 |
| Color Uniformity | 2 SDCM (typical) |
| Lumen Maintenance ³ | L80 = 75,000 hr |

¹ Photometric files available from cooledgelighting.com

² Based on a 10'x10' (3mx3m) area - refer to SkySpan Size Factors for other sizes

³ Based on LM80 data & TM-21 calculations

Cooledge has conducted extensive testing on the interaction between the light source and the surface materials to deliver the optical and photometric properties of the Solution.

TM-30-15 DATA

| CCT | 2200K | 2700K | 3000K | 3500K | 4000K | 5700K | TNW* |
|-----|-------|-------|-------|-------|-------|-------|------|
| Rf | 88 | 91 | 90 | 89 | 86 | 88 | 90 |
| Rg | 99 | 99 | 98 | 98 | 96 | 98 | 100 |

For more details about Cooledge Solutions color rendering, please see "Light Quality Metrics" at www.cooledgelighting.com

* = Tunable White @50% point in the tunable range 2700K - 5700K

PHOTOMETRICS (W+RGB)

| | lm/sqft* | lm/m ² * |
|------------|----------|---------------------|
| W (3500K) | 320 | 3450 |
| Full W+RGB | 640 | 6900 |
| Red only | 95 | 1020 |
| Green only | 260 | 2800 |
| Blue only | 55 | 600 |

*Approximate: actual flux values may vary depending on the size and shape of the Specialty Illumination Solution.

WHITE - 3500K

| | |
|------------------------------------|-----------|
| Correlated Color Temperature (CCT) | 3500K |
| CRI (Ra) - White | 94 |
| R9 | 64 |
| Color Uniformity - White (Typical) | 3 SDCM |
| Lumen Maintenance (L70) | 50,000 hr |

WHITE - W+RGB: OTHER CCTS*

| Nominal CCT | Calculated CCT | CRI | R9 |
|-------------|----------------|-----|----|
| 2700K | 2752K | 80 | 51 |
| 3000K | 3080K | 90 | 79 |
| 3500K | 3465K | 95 | 95 |
| 4000K | 3985K | 95 | 97 |
| 5000K | 5031K | 93 | 96 |
| 5700K | 5640K | 91 | 88 |

SKYSPAN SUSPENDED: SPECIFICATIONS

POWER (SINGLE CCT & TUNABLE WHITE)

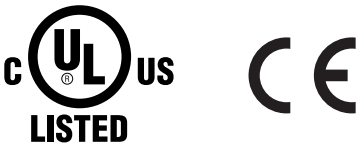
| Flux Category | Light Output (lm/sqft) | Light Output (lm/m²) | CCT | Power (W/sqft) | Power (W/m²) |
|------------------------|------------------------|----------------------|-------|----------------|--------------|
| Extra High Flux (XHF) | 590 | 6390 | 2200K | n/a | n/a |
| | | | 2700K | 7.8 | 83.4 |
| | | | 3000K | 7.1 | 76.2 |
| | | | 3500K | 7.0 | 75.0 |
| | | | 4000K | 7.0 | 75.0 |
| | | | 5700K | 7.0 | 75.0 |
| High Flux (HF) | 395 | 4260 | 2200K | 5.6 | 60.4 |
| | | | 2700K | 5.2 | 55.6 |
| | | | 3000K | 4.8 | 52.0 |
| | | | 3500K | 4.6 | 49.6 |
| | | | 4000K | 4.6 | 49.6 |
| | | | 5700K | 4.7 | 50.8 |
| Medium High Flux (MHF) | 305 | 3280 | 2700K | 4.0 | 43.4 |
| | | | 3000K | 3.7 | 40.0 |
| | | | 3500K | 3.6 | 38.4 |
| | | | 4000K | 3.6 | 38.4 |
| Medium Flux (MF) | 200 | 2130 | 2200K | 2.8 | 30.2 |
| | | | 2700K | 2.6 | 27.8 |
| | | | 3000K | 2.5 | 26.6 |
| | | | 3500K | 2.2 | 24.2 |
| | | | 4000K | 2.4 | 25.4 |
| | | | 5700K | 2.2 | 24.2 |
| Low Medium Flux (LMF) | 150 | 1620 | 2700K | 2.0 | 21.0 |
| | | | 3000K | 1.8 | 19.4 |
| | | | 3500K | 1.7 | 18.6 |
| | | | 4000K | 1.7 | 18.6 |
| Low Flux (LF) | 100 | 1065 | 2200K | 1.3 | 14.5 |
| | | | 2700K | 1.2 | 13.3 |
| | | | 3000K | 1.2 | 13.3 |
| | | | 3500K | 1.1 | 12.1 |
| | | | 4000K | 1.1 | 12.1 |
| | | | 5700K | 1.1 | 12.1 |
| Eco Power (ECO) | 65 | 700 | 2700K | 0.9 | 9.3 |
| | | | 3000K | 0.8 | 8.6 |
| | | | 3500K | 0.8 | 8.2 |
| | | | 4000K | 0.8 | 8.2 |

Note: for Tunable White use 2700K power value; for Dim-to-Warm use 3500K value

POWER (W+RGB)

| | W/sqft | W/m² |
|------------|--------|------|
| W (3500K) | 5.8 | 62 |
| Full W+RGB | 22.5 | 242 |
| Red only | 5.8 | 62 |
| Green only | 5.8 | 62 |
| Blue only | 5.8 | 62 |

CERTIFICATIONS

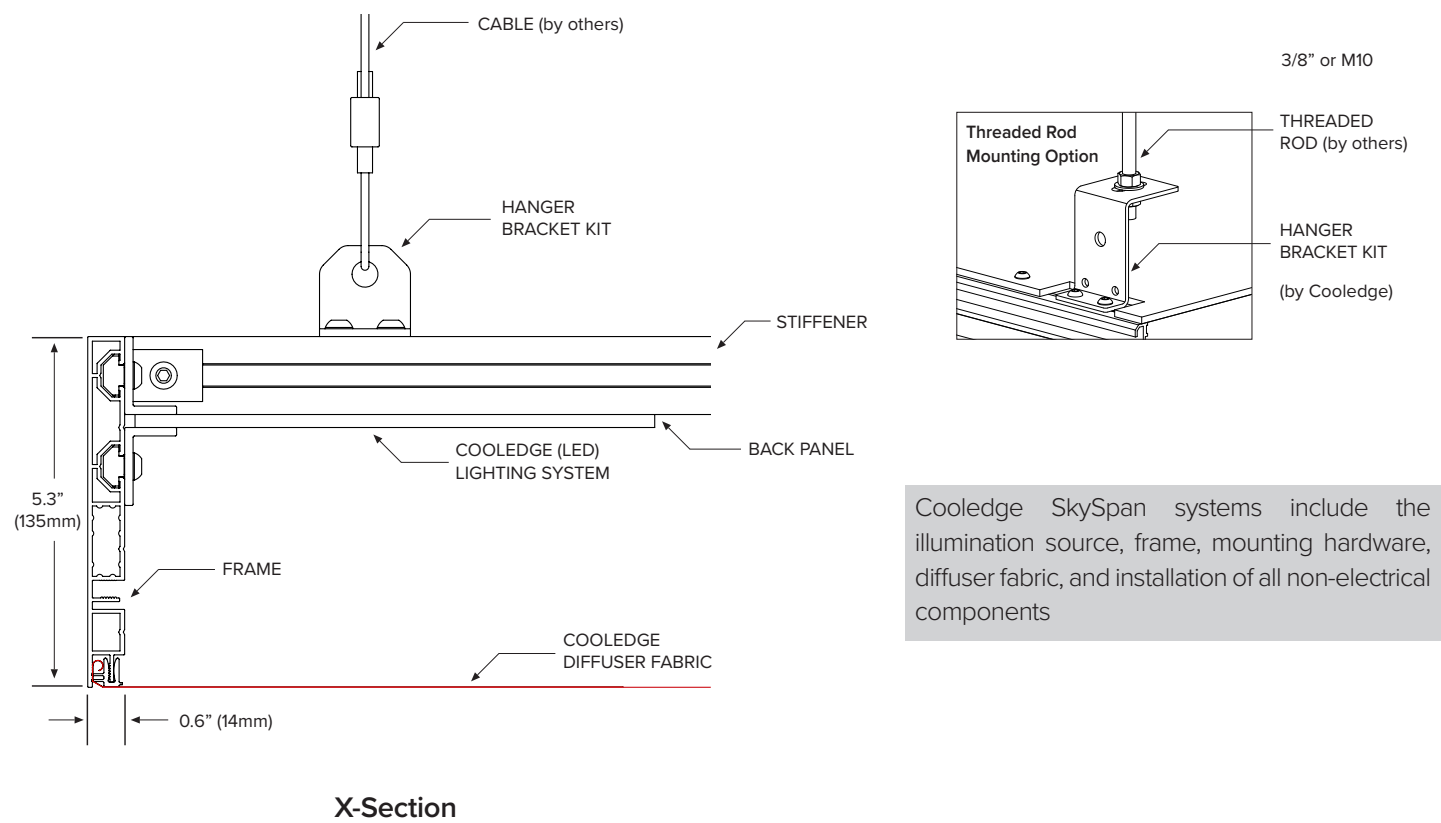


RoHS

WARRANTY

Refer to Cooledge Terms and Conditions for full warranty details.

MECHANICAL DETAILS



GENERAL

| | |
|-----------------------|---|
| Location | Indoor, dry location only |
| Operating Temp. Range | 0-40°C (32-104°F) |
| Storage Temp. Range | -40-85°C (-40-185°F) |
| Relative Humidity | 90% max (non-condensing) |
| Fire Spread | ASTM E84: Class A (FSI = 0–25); EN13501-1: Class B – s1,d0; CAN ULC S102.2. |

ACOUSTIC PERFORMANCE

When used in conjunction with an acoustic lighting system from Cooledge, SkySpan and SkyLine products provide exceptional acoustic performance that when combined with their large surface area result in significant noise reduction capability.

| Mounting Type | Noise Reduction Coefficient | Sound Absorption Average | Weighted Sound Absorption Coefficient (ISO EN11654) |
|---------------|-----------------------------|--------------------------|---|
| | NRC | SAA | αw |
| Suspended | 0.90 | 0.91 | 0.90 |
| Surface Mount | 0.60 | 0.62 | 0.45 (M) |

SKYSPAN SUSPENDED: SPECIFICATIONS

COMPLEX SHAPES

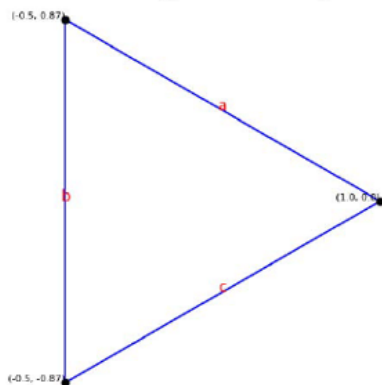
Cooledge SkySpan systems are generally configured in simple geometric shapes such as squares, rectangles, and circles. However, many other forms are possible – especially with Flush Mount systems. Symmetrical and non-symmetrical polygons as well as curved shapes including but not restricted to ovals are all possible.



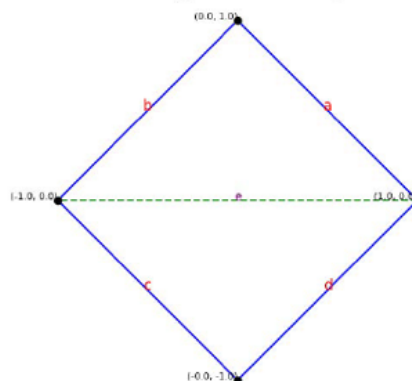
Cooledge will work with you to define the required dimensions for inclusion in your design and to guide related construction details. Below are examples of symmetrical polygons and the dimensions required to correctly define them.

REQUIRED DIMENSIONS FOR POLYGONS

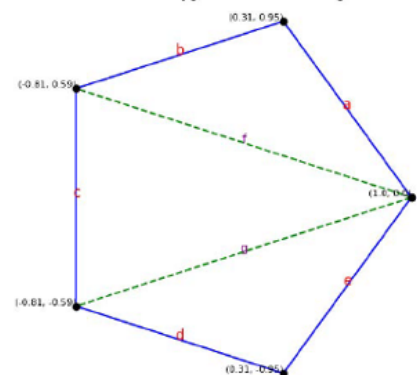
3-sided Polygon with Minimal Diagonals



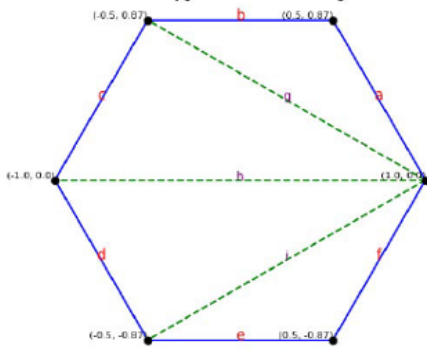
4-sided Polygon with Minimal Diagonals



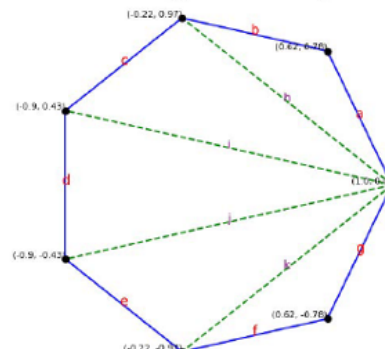
5-sided Polygon with Minimal Diagonals



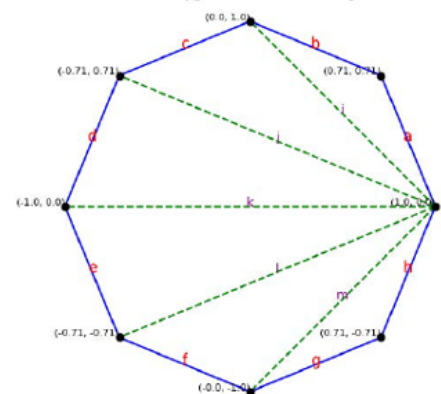
6-sided Polygon with Minimal Diagonals



7-sided Polygon with Minimal Diagonals



8-sided Polygon with Minimal Diagonals



SKYSPAN SUSPENDED: SPECIFICATIONS

POWER AND CONTROL

SkySpan include all mechanical, electrical, and lighting components required including power supplies and Cooledge Control Modules selected from the options listed below.

Specifications for the power supplies and Cooledge Control Modules shown below are available in the following documents:

- Power and Control Specifications (cUL Listed)
- Power and Control Specifications (CE Compliant)

POWER SUPPLIES (54V) - cUL Listed

| Order Code | # Controller Channels * | Enclosure |
|-----------------|-------------------------|-----------|
| EPSS-092-54V-UL | 1 | Yes |
| EPSS-200-54V-UL | 2 | Yes |
| EPSS-400-54V-UL | 4 | Yes |

*Class 2 (max 90W) output

POWER SUPPLIES (54V) - CE Compliant

| Order Code | # Controller Channels* | Enclosure |
|-----------------|------------------------|-----------|
| EPSS-092-54V-CE | 1 | Yes |
| EPSS-200-54V-CE | 2 | Yes |
| EPSS-400-54V-CE | 4 | Yes |

*Class 2 (max 90W) output

COOLEDGE CONTROL MODULES (54V) - Static CCT

| Order Code | Protocols |
|------------------------|--------------------|
| CTR-SCT-DAL/010-48/58V | 0-10V, DALI |
| CTR-SCT-DMX-48/58V | DMX |
| CTR-SCT-CAS-48/58V | Casambi (wireless) |

COOLEDGE CONTROL MODULES (54V) - TUNABLE WHITE

| Order Code | Function | Protocols |
|------------------------|---------------|--------------------|
| CTR-TNW-DAL/010-48/58V | Tunable White | 0-10V, DALI |
| CTR-TNW-DMX-48/58V | Tunable White | DMX |
| CTR-TNW-CAS-48/58V | Tunable White | Casambi (Wireless) |
| CTR-DTW-DAL/010-48/58V | Dim-to-Warm | 0-10V, DALI |
| CTR-DTW-DMX-48/58V | Dim-to-Warm | DMX |
| CTR-DTW-CAS-48/58V | Dim-to-Warm | Casambi (Wireless) |

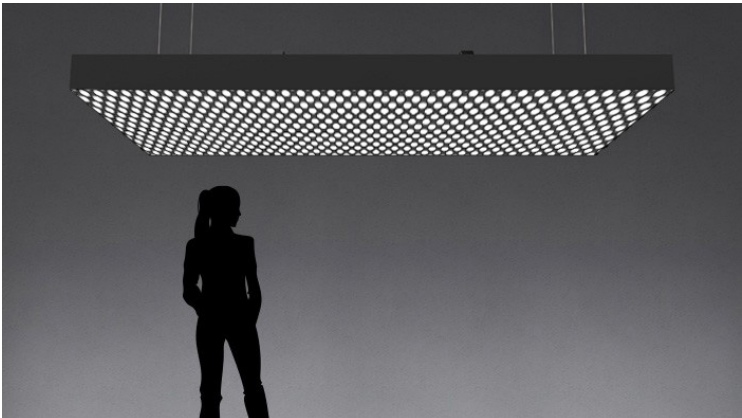
W+RGB solutions require alternate power & controls (DMX & Casambi only). Please contact Cooledge for details.

SKYSPAN SUSPENDED: SPECIFICATIONS

FAUX PERFORATED METAL (PRINTED)

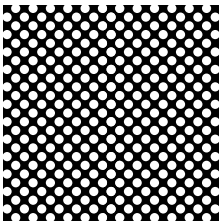
Make your design unique by adding the look of illuminated perforated metal panels to your SkySpan or SkyLine system using images printed right on the diffuser fabric.

Combine exceptional quality illumination, true acoustic performance, and visual interest in one simple luminaire solution.

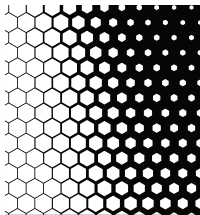


STANDARD PATTERNS

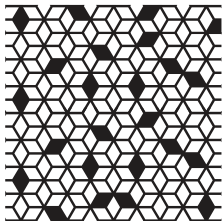
The following are standard patterns available from Cooledge. We are also able to work with other images that you have selected.



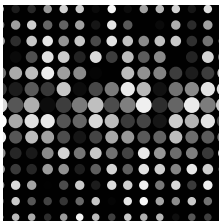
PATTERN A



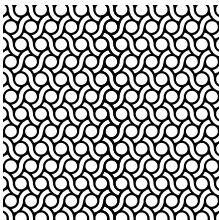
PATTERN B



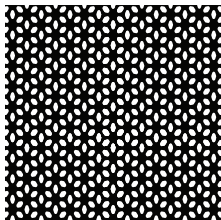
PATTERN C



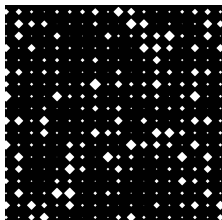
PATTERN D



PATTERN E



PATTERN F



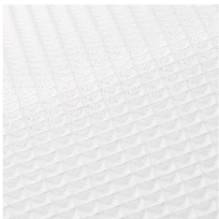
PATTERN G



PATTERN H

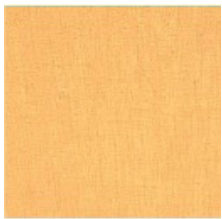
DIFFUSER OPTIONS – DESIGNER SERIES FOR LUMINOUS CEILINGS

In addition to our standard smooth white fabric diffuser, Cooledge offers options to change aesthetic appeal of its luminous ceiling product by introducing the Designer Series of fabric diffusers. These fabrics add an element of texture to your design and elevates the luminous ceiling from the appearance of a traditional light fixture to a unique architectural element.



WAFFLE
CONTOURS

Add some sparkle and depth with this fabric option that allows a hint of the LEDs to shine through a waffle pattern structured surface



TEXTURED

The fabric (cotton) weave pattern adds a subtle texture to the appearance of the fabric without impacting the light transmission performance.

SKYSPAN SUSPENDED: SPECIFICATIONS

HOW TO SPECIFY

NOTE: By their nature, Cooledge SkySpan and SkyLine are custom products. These Specification Codes are provided for use as simple references to SkySpan/SkyLine in specifications and/or construction documents and do not include all details required to define the system. Specification Codes are NOT ordering codes. In order to receive quotations or purchase these products from Cooledge, the dimensions and are required. Cooledge may also request additional information before issuing a quotation or accepting a purchase order.

| SKYS | | SU | | | | | | | | | | | | | | | |
|-------------------------|-------------------------|-----------------|-----------------------|-------------------------|------------------|----------------------|-----------------------------|---|----|--|--|--|--|--|--|--|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | | | | | | |
| 1 PRODUCT | 2 TYPE | 3 SHAPE | 4 FLUX | 5 CCT | 6 CONTROL | 7 DIFFUSER | 8 ACOUSTIC | | | | | | | | | | |
| SKYS = SkySpan | SU = Suspended | REC = Rectangle | XHF = Extra High Flux | 22 = 2200K | 010 = 0-10V | STD = Smooth White | STD = Standard (Not tested) | | | | | | | | | | |
| | SM = Surface Mount | CIR = Circle | HF = High Flux | 27 = 2700K | DAL = DALI | TXT = Textured White | ACU = Acoustic (NRC=0.90) | | | | | | | | | | |
| | FM = Flush Mount | CUR = Curve | MF = Med Flux | 30 = 3000K | DMX = DMX | WAF = Waffle Contour | | | | | | | | | | | |
| | | POLY = Polygon | MHF = Med High Flux | 35 = 3500K | CAS = Casambi | White | | | | | | | | | | | |
| | | | LF = Low Flux | 40 = 4000K | (Wireless) | FPRF-x = Faux | | | | | | | | | | | |
| | | | LMF = Low Medium Flux | 57 = 5700K | ATH = Athena | Perforated Metal – | | | | | | | | | | | |
| | | | ECO = Eco Power | TNW2757 = Tunable White | (Wireless) | Pattern x (printed) | | | | | | | | | | | |
| | | | | 2700-5700K | | GRPH = Custom | | | | | | | | | | | |
| | | | | TNW2235 = Tunable White | | Graphic Image | | | | | | | | | | | |
| | | | | 2200-3500K | | (printed) | | | | | | | | | | | |
| | | | | DTW3522 = Dim-To-Warm | | | | | | | | | | | | | |
| | | | | 3500-2200K | | | | | | | | | | | | | |
| 9 PROFILE FINISH | 10 CERTIFICATION | | | | | | | | | | | | | | | | |
| B = Black | UL = UL Listed | | | | | | | | | | | | | | | | |
| W = White | CE = CE Compliant | | | | | | | | | | | | | | | | |

INSTALLATION

Installation of Cooledge SkySpan and SkyLine products is included in the purchase of the product. Installation of these products must be done by a Cooledge approved installer.