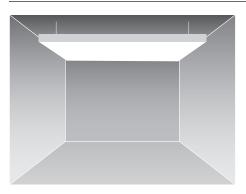
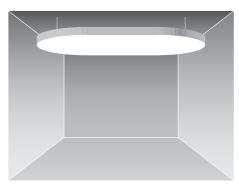


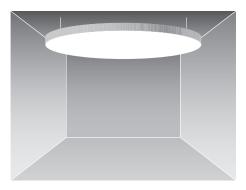
COOLEDGE LUMINOUS CEILINGS SPECIALTY ILLUMINATION SOLUTIONS - SUSPENDED: SPECIFICATIONS

PROJECT	REFERENCE TYPE	
SPECIFIED BY	QUANTITY	
DATE	NOTE	Luminous Ceiling

SPECIALTY ILLUMINATION SOLUTIONS - 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	Suspended
Surface Material	Polyester Woven Fabric (coated)
Frame Material	Extruded Aluminum
Light Source	Cooledge TILE Interior or TILE Tunable White (W+RGB option available)
Dust Ply Included	No (available upon request)
Maximum Seamless Dimensions	15.5ft (4.7m) x 161ft (49m) (WxL)
Frame Height	5.3 in (135 mm)
Average Weight	$10' \times 10' = 1.2 \text{lb/sqft}$ (3m × 3m = 5.9 kg/m ²)
Bend Radius (Curves)	Minimum 15" (380mm)

SPECIFICATION

- A luminous surface consisting of a lighting system and woven
- light emitting diffuser suspended from the ceiling structure.
- Cooledge Solutions form a single, uniformly diffuse and seamless light emitting surface; provide 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 composed of coated polyester fabric with a fire rating ASTM E 84 Class A /EN:3501-1 Class B or better.
- Light output from the luminous surface is CRI>90; provides flux within 10% of average, and has a color consistency of 2 SDCM over the entire surface. (Single CCT & Tunable White)
- Cooledge Solutions are UL Listed, 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.
- Optional increased sound absorption eliminates the need for acoustic baffles or clouds in open plan spaces.

PHOTOMETRICS¹ (SINGLE CCT & TUNABLE WHITE)

Distribution	Lambertian
Light Output ² (Im/sqft)	Extra High Flux (XHF): 590 High Flux (HF): 395 Medium Flux (MF): 200 Low Flux (LF): 100
Light Output ² (lm/m ²)	Extra High Flux (XHF): 6390 High Flux (HF): 4260 Medium Flux (MF): 2130 Low Flux (LF): 1065
Correlated Color Temperature (CCT)	2200K, 2700K, 3000K, 3500K, 4000K, 5700K, Tunable White 2700K-5700K Dim-to-Warm 3500K-2200K
Color Rendering Index (CRI)	≥ 90
Color Uniformity	2 SDCM (typical)
Lumen Maintenance ³	L80 = 75,000 hr

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

ССТ	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

PHOTOMETRICS (W+RGB)

	lm/sqft*	lm/m²*
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 Unigormity - 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

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

¹ Photometric files available from cooledgelighting.com

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

³ Based on LM80 data & TM-21 calculations

POWER (SINGLE CCT & TUNABLE WHITE)

Flux Category	Light Output (Im/sqft)	Light Output (lm/m²)	ССТ	Power (W/sqft)	Power (W/m²)
			2200K	n/a	n/a
Extra High			2700K	7.8	83.4
Flux	590	6390	3000K	7.1	76.2
(XHF)	590	6390	3500K	7.0	75.0
			4000K	7.0	75.0
			5700K	7.0	75.0
			2200K	5.6	60.4
			2700K	5.2	55.6
High Flux	395	4260	3000K	4.8	52.0
(HF)			3500K	4.6	49.6
			4000K	4.6	49.6
			5700K	4.7	50.8
		2130	2200K	2.8	30.2
Medium Flux			2700K	2.6	27.8
	200		3000K	2.5	26.6
(MF)			3500K	2.2	24.2
			4000K	2.4	25.4
			5700K	2.2	24.2
			2200K	1.3	14.5
Low Flux			2700K	1.2	13.3
	100	1065	3000K	1.2	13.3
(LF)	100	1065	3500K	1.1	12.1
			4000K	1.1	12.1
			5700K	1.1	12.1

CERTIFICATIONS





RoHS

INSTALLATION

Installation of Cooledge Specialty Illumination Solutions must be done by a Cooledge recommended installer.

WARRANTY

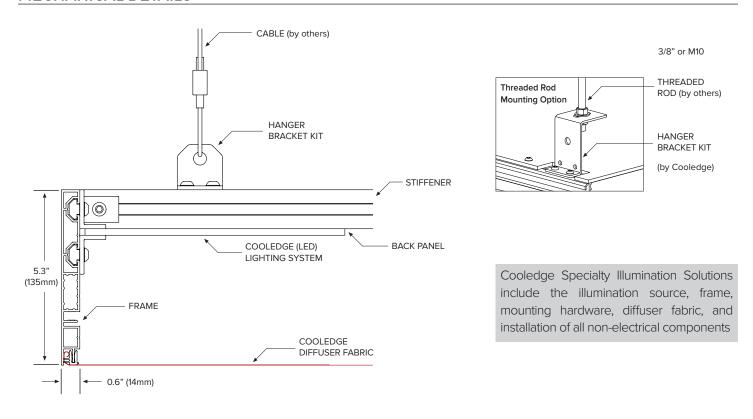
Refer to Cooledge Terms and Conditions for full warranty details.

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

COOLEDGE LUMINOUS CEILINGS SPECIALTY ILLUMINATION SOLUTIONS - SUSPENDED: SPECIFICATIONS

MECHANICAL DETAILS



X-Section

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;

COOLEDGE LUMINOUS CEILINGS SPECIALTY ILLUMINATION SOLUTIONS - SUSPENDED: SPECIFICATIONS

POWER AND CONTROL

Specialty Illumination Solutions 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

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)

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) - 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.

HOW TO SPECIFY

NOTE: By their nature, Cooledge Specialty Illumination Solutions are custom products. These **Specification Codes** are provided for use as simple references to Cooledge Specialty Illumination Solutions in specifications and/or construction documents. Specification Codes are **NOT** ordering codes. In order to receive quotations or purchase these products from Cooledge, the solution dimensions are required. Cooledge may also request additional information before issuing a quotation or accepting a purchase order.

