

PROJECT	REFERENCE TYPE	
SPECIFIED BY	QUANTITY	
DATE	NOTE	Luminous Ceilings

DESCRIPTION

Cooledge **FABRICated Luminaires** are a simple, out-of-the-box way to incorporate the unique look and feel of a stretch fabric ceiling into your space. Use recessed luminaires to create open spaces that deliver the visual, biological, and emotional benefits of large luminous surfaces, for example in plaster or drywall ceilings.

Recessed luminaires deliver immersive illumination for:

- Elevator lobbies
- Showrooms
- Shops
- Healthcare facilities

Nominal Size (Imperial - ft)

4 x 6

4 x 8

4 x 10

5 x 5

6 x 6

6 x 8

6 x 9

Features Cooledge's unique "Infinity Edge" design for uniform illumination from edge to edge.

SIZES

GE	NE	RAL	
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Location	Indoor, dry location only
Operating Temperature	0 – 40°C (32 – 104°F)
Storage Temperature	-40 – +85°C (-40 – +185°F)
Relative Humidity	90% max (non-condensing)
Operating Voltage	58 VDC
Diffuser Material	Woven Fabric (coated)
Frame Material	Aluminum
Fire Rating	ASTM E 84 Class A /EN:3501-1 Class B
Noise Reduction Coefficient (NRC)	Standard: 0.2 (ISO Class E)







Cooledge Lighting Inc. 110-13551 Commerce Parkway Richmond, BC V6V 2L1 Canada O +16042732665 F +16042732660 T +18444554448 W cooledgelighting.com Cooledge Lighting reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program.



PHOTOMETRICS

Nominal Size (Imperial - ft)	Flux (lm)				
	Extra High Flux (XHF)	High Flux (HF)	Medium Flux (MF)		
4 x 6	13290	8860	4430		
4 x 8	18150	12100	6050		
4 × 10	22720	15150	7570		
5 x 5	14010	9340	4670		
6 x 6	23560	15700	7850		
6 x 8	31650	21100	10550		
6 x 9	35440	23630	11810		

CRI (Ra)	>90
Color Uniformity (Typical)	2 SDCM
Lumen Maintenance (L80)	75,000 hr

TM-30-15 DATA

ССТ	TNW*	3000	3500	4000
Rf	90	89	88	85
Rg	99	97	97	95

For more details about FABRICated Luminaires color rendering properties, please see "Light Quality Metrics" at www.cooledgelighting.com *TNW = Tunable White

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Light as a building material

POWER

Nominal Size (ft)	ССТ	Extra High Flux (HF)	High Flux (HF)	Medium Flux (MF)	Nominal Size (ft)	сст	Extra High Flux (HF)	High Flux (HF)	Medium Flux (MF)
		Power (W)	Power (W)	Power (W)			Power (W)	Power (W)	Power (W)
	TNW	223.8	149.2	72.0		TNW	384.1	256.1	123.6
1 × 6	3000K	214.8	144.1	69.5	6 x 6	3000K	368.7	247.3	119.2
4 × 6	3500K	210.9	140.2	68.2	0 X 0	3500K	362.1	240.6	117.0
	4000K	207.1	136.3	66.9		4000K	355.4	234.0	114.8
	TNW	299.1	199.5	96.3		TNW	505.3	336.9	162.6
4 × 0	3000K	287.1	192.5	92.8	C × 0	3000K	485.0	325.3	156.8
4 x 8	3500K	281.9	187.4	91.1	6 x 8	3500K	476.3	316.6	153.9
	4000K	276.8	182.2	89.4		4000K	467.6	307.8	151.0
	TNW	374.5	249.7	120.5		TNW	565.9	377.3	182.1
4 × 10	3000K	359.4	241.0	116.2	6 x 9	3000K	543.2	364.3	175.6
4 × 10	3500K	353.0	234.6	114.1	0 X 9	3500K	533.4	354.5	172.4
	4000K	346.5	228.1	111.9		4000K	523.6	344.8	169.1
	TNW	233.4	155.6	75.1					
5 x 5	3000K	224.0	150.2	72.4					
CXC	3500K	219.9	146.2	71.1					
	4000K	215.9	142.2	69.7					

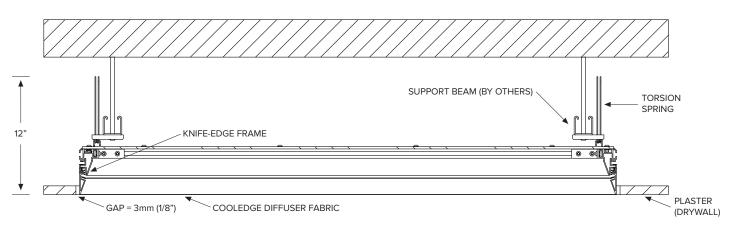
Nominal Size (Imperial - ft)	Order Code	External Dimensions (in)		Weight (lb)	# Mounting Points
		W	L		
4 × 6	46	46.5	74.8	52	6
4 × 8	48	46.5	93.7	57	6
4 × 10	410	46.5	117.3	76	8
5 x 5	55	58.3	58.3	40	6
6 × 6	66	74.8	74.8	68	6
6 x 8	68	74.8	93.7	81	8
6 x 9	69	74.8	110.2	88	8

DIMENSIONS

Height = 12"

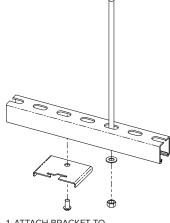
*Recessed opening to be a minimum 1/8" longer than External Dimentions

MOUNTING DETAILS

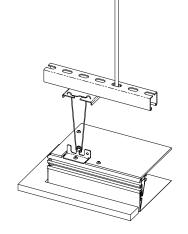




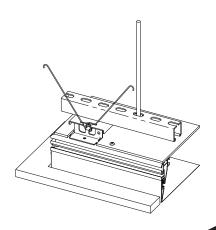
BRACKET DETAILS



1. ATTACH BRACKET TO SUPPORT BEAM



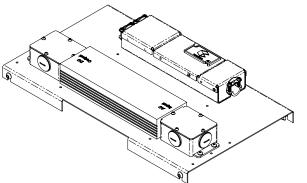
2. HANG LUMINAIRE BY TORSION SPRING



3. LIFT LUMINAIRE UNTIL SPRING LOCKS IN PLACE

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POWER AND CONTROL MOUNTING



Power & Control Mounting Plate

(shipped in a separate package)

Power Supply with Cooledge Control Module

Actual power & control configuration is determined by the luminaire model.

Mounting Plate Dimensions: 16.5" X 9.4"

68 = 6x8 69 = 6x9 FABRICated Luminaires offer two choices for locating the power and control components:

- **Integrated:** the mounting plate containing the power supply and control module may be secured to the top of the luminaire. AC electrical connections are made directly to the power supplies at the luminaire
- **Remote Mounted:** the mounting plate can be located remotely in a location that may be more suitable for AC electrical connection or for maintenance access (see www.cooledgelighting.com or contact Cooledge for remote distance wiring requirements)

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Light as a building material

HOW TO ORDER

Static CCT	_F	ELR 1 2	 4 - SC -	6 - E	8	
1 PRODUCT FLR = FABRICated Luminaire - Recessed (Plaster/Drywall)	2 NOM. SIZE 46 = 4x6 48 = 4x8 410 = 4x10 55 = 5x5 66 = 6x6 68 = 6x8 69 = 6x9	3 FLUX HF = High Flux MF = Med Flux XHF = Extra High Flux		6 <u>DIMMING</u> 010 = 0-10V (1%) DAL = DAL/0-10V DMX = DMX (0.09 CAS = Casambi (Wireless - 0.05%	5%)	8 CERTIFICATION U = cUL C = CE
Tunable Whit	e					
1 PRODUCT FLR = FABRICated Luminaire - Recessed (Plaster/Drywall)	2 NOM. SIZE 46 = 4x6 48 = 4x8 410 = 4x10 55 = 5x5 66 = 6x6	3 FLUX HF = High Flux MF = Med Flux XHF = Extra High Flux	5 MOUNTING SC = Spring Clips	6 <u>DIMMING</u> DAL = DAL//0-10\ DMX = DMX (0.09 CAS = Casambi (Wireless - 0.05%	5%)	8 CERTIFICATION U = cUL C = CE

WELL STANDARD (V2)

Cooledge FABRICated Luminaires enhance the user experience of spaces by delivering immersive illumination that impacts not only the visual, but also the emotional and physiological, response of people. New standards that define requirements for promoting design that enhances well-being are emerging. One of those standards, WELL v2, includes 8 "features" for lighting design that define requirements for the quality and composition.

The following data is provided to assist designers in determining compliance with the WELL v2 standard when incorporating Cooledge FABRICated Luminaires in their design.

Feature L03: Circadian Lighting Design

This feature requires a calculation of Equivalent Melanopic Lux (EML): EML = Photopic Lux x Melanopic Ratio

Melanopic Ratio for FABRICated Luminaires

	TNW*	3000K	3500K	4000K
Melanopic Ratio**	0.704	0.517	0.620	0.779

*Tunable White: 2700K @ 50% + 5700K @ 50%

**Calculated using the IWBI Melanopic Ratio calculator

Feature L04: Glare Control

This feature requires maximum values for different types of glare measurements. Compliance requirement (d): Luminance < 10,000 cd/m2 between 45° - 90° from nadir

Maximum Luminance for FABRICated Luminaires

	High Flux (HF)	Extra High Flux (XHF)
Maximum Luminance* (cd/m2)	1465	2200
*Maximum occurs at 45°		

Feature L07: Electric Light Quality – Part 1 Ensure Color Rendering Quality

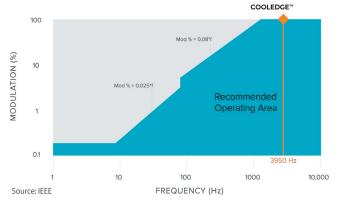
This feature requires minimum values for color rendering.

Compliance requirement (a): CRI > 90

CRI (Ra) for FABRICated Luminaires

	TNW*	3000K	3500K	4000K
CRI (Ra)	96	93	93	93

Feature L07: Electric Light Quality – Part 2 Manage Flicker



For LED-based luminaires, this feature requires specific values for the combination of frequency and modulation.

Compliance requirement: Meet IEEE 1789-2015 Standard Practice Recommendation

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