

CoeLux High-End (AXHE) systems recreate the ultimate daylight experience with the sun and sky at an infinite distance. They come in several versions designed for high ceilings (HC), low ceilings (LC) and wall mounts (SQ).

**AXHE 45HC** produces a 45-degree sun beam supplying an equal balance of light and shade. Ideal for high-ceiling spaces, it is the largest available CoeLux optical system, measuring approximately 16 ft<sup>2</sup> (1.5 m<sup>2</sup>). Also offered in a Moon version (**AXHE 45HC Moon**), providing a darker night sky and moonlight with a bluish hue.



Project \_\_\_\_\_

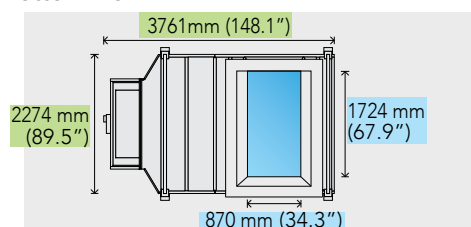
Type \_\_\_\_\_

Notes \_\_\_\_\_

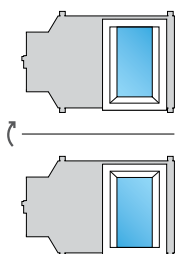


Ceiling installation

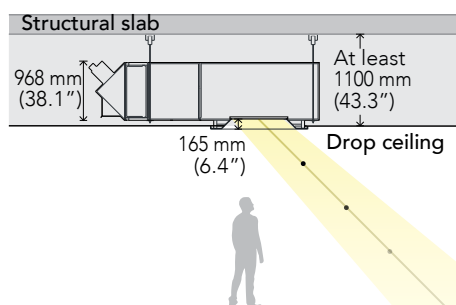
Bottom view\*\*



Frame position



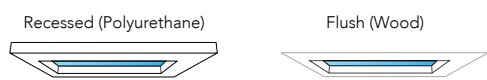
Side view\*\*



Typical horizontal illuminance

- At 1 m (3.28')\* 2000 Lux
- At 2 m (6.56')\* 1300 Lux
- At 3 m (9.84')\* 900 Lux

Frame type:


 Fixture Dimensions

 Skylight Dimensions

\*\*Flangeless detail to drywall, wood or custom-cut ACT.



**THE AXIS ADVANTAGE**  
Exceptional lighting  
deserves exceptional support.



## Ordering Guide

See full certification on page 4





AXHE45HC	36	41		
PRODUCT ID	SIZE	LUMENS	FRAME TYPE	COELUX LIGHT ENGINE
AXHE45HC High End - 45 High Ceiling	36 3'x6' nominal (34.3" x 67.9")	41 4100 lm	RC recessed (polyurethane) FL flush (wood)	CSS CoeLux sky and sun CSM CoeLux sky, sun and moon
		Lumen output is fixed		See page 3 for more details

95			1	CF
CRI	VOLTAGE	DRIVER	CIRCUITS	MOUNTING / SUSPENSION
95 95+ CRI	120 120 V	DP dimming (1-10V) 1%* DA DALI	1 1 circuit	CF CoeLux flangeless
		* Consult factory		

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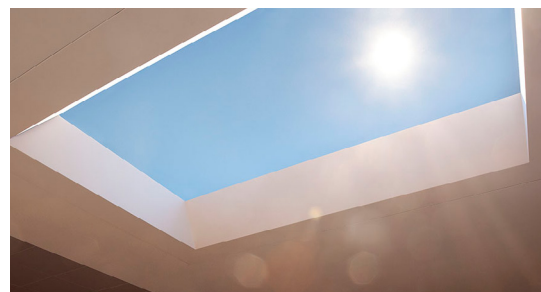
-  **Axis Experience Centers** to see CoeLux technology up close – Centers under development throughout North America in addition to Montreal, Canada location.
-  **Axis Inspiration** through a team of lighting experts with CoeLux experience and daylighting know-how to help you integrate CoeLux in your building.
-  **Axis Design Resources**, including application specialists and specification documents to help you design your CoeLux space.
-  **Axis Service Commitment** with fast delivery, installation guidelines and 5 year Axis warranty for unparalleled support.

**Get more out of your CoeLux experience with Axis!**

### AXHE 45HC



CoeLux moon



CoeLux sun

## ● SPECIFICATIONS

### CONSTRUCTION

<b>Light Engine</b>	Aluminum housing and structure supported by threaded rods.
<b>Optics</b>	CoeLux patent-pending sky, sun and moon optics
<b>Support Frame</b>	Extruded aluminum frame to support housing and trim
<b>Polyurethane Drop Trim</b>	Reinforced polyurethane construction
<b>Flush Wood Trim</b>	Wood

## ● WARRANTY

Axis Lighting will warrant defective LEDs, boards, and drivers for 5 years from date of purchase. Warranty is valid if luminaire is installed and used according to specifications. If defective, Axis will send replacement boards or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Axis.

## ● CoeLux AXHE 45HC Basic Data

Product Name		AXHE 45HC	
		Sun state features	Moon state features
Optical features	<b>Total light output</b>	4700 lm	~ 10 lm
	<b>Lumen maintenance (L80)</b>	> 50000h	> 50000h
	<b>LED CRI (Ra)</b>	>95	
	<b>CCT of transmitted beam</b>	4100K	
	<b>CCT of the Sky</b>	~ 17000 K	
	<b>Beam angle</b>	45°	45°
	<b>Divergence (H/V)</b>	30°/10°	30°/10°
	<b>Sun appearance</b>	visible sharp	visible sharp
	<b>Sky appearance</b>	clear	clear
	<b>Melanopic Ratio (Sky)</b>	1.444	
	<b>Melanopic Ratio (Sun)</b>	0.764	
Electrical	<b>Power input</b>	100-240V, 50/60Hz	100-240V, 50/60Hz
	<b>Max power consumption</b>	300W	< 15W
	<b>Typical power consumption</b>	270W	
Mechanical features	<b>Device dimensions (without frame)</b>	3698 x 2274 x h949 mm 145.6 x 89.5 x h37.4 in	3698 x 2274 x h949 mm 145.6 x 89.5 x h37.4 in
	<b>Maximum Volume</b>	3935 x 2380 x h1100 mm 154.9 x 93.7 x h43.3 in	3935 x 2380 x h1100 mm 154.9 x 93.7 x h43.3 in
	<b>Skylight size</b>	1724 x 870 mm 67.9 x 34.3 in	1724 x 870 mm 67.9 x 34.3 in
	<b>Weight (without frame)</b>	300 kg 660 lb	300 kg 660 lb

## ● LED SYSTEM

<b>CRI</b>	95+ color rendering index.
<b>CCT</b>	See CoeLux AXHE 45HC basic data below.
<b>LED life</b>	Minimum 50,000h with 80% of lumen maintenance in 25°C ambient temperature, in compliance with IES LM-80 testing measurements.
<b>Thermal Management</b>	Aluminum housing acting as the heat sink to maximize life.
<b>Environment</b>	Dry and damp rated in operating ambient temperatures of 0-40°C (32-104°F) maximum operating relative humidity 95%.

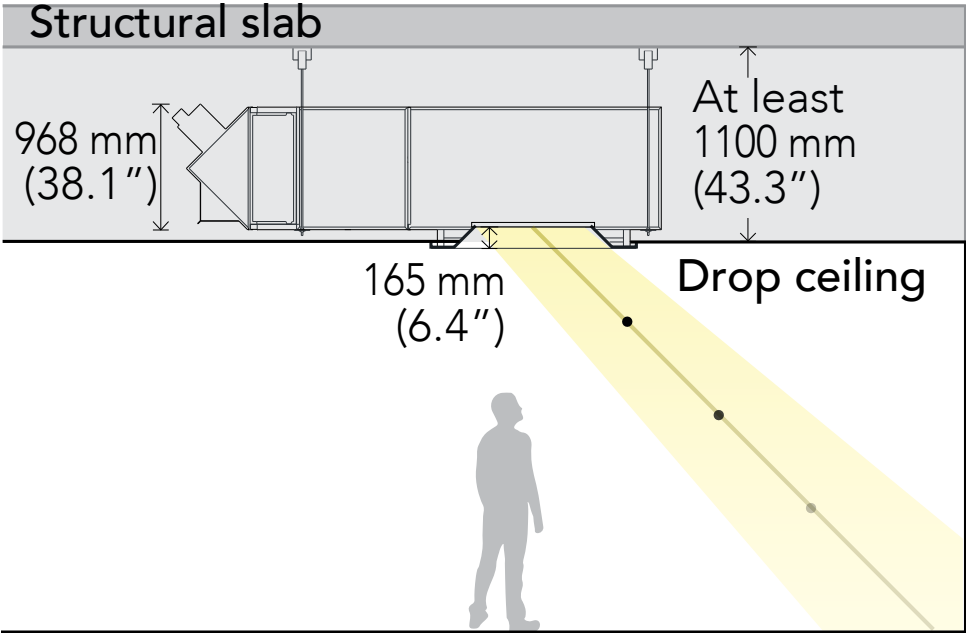
## ● CoeLux Flangeless Frame

Luminaire supported by threaded rods and finished with a flangeless architectural frame. Can be surrounded by drywall, wood or custom cut ACT.

## AXIS SUPPORT TECH

**Contact your Axis local Rep. to visit the Axis/CoeLux Experience center or visit CoeLux innovation center at Axis.**

● PHOTOMETRIC DATA



Typical horizontal illuminance

- At 1 m (3.28')\* 2000 Lux
- At 2 m (6.56')\* 1300 Lux
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\*IES files not available due to luminaire size limitations.