Sky Factory IECEE CB SCHEME IRIS w Aperture Luminous SkyCeilings Ref. No. DK-128546-UL



# **IRIS w Aperture Specifications**

Sky Factory provided external dimmable power supply (where specified) Converts 90-305V AC to 24V DC UL (U.S. and Canada) Recognized and CE Compliant Maximum Watts (Useable) per power supply: 600 Watts Available sizes: 40W, 60W, 80W, 100W, 150W, 185W, 240W, 320W, 480W, 600W Size and quantity per installation calculated by Sky Factory In-line switch between AC source and power supply required Power supply must be mounted in dry locations. Surface mountable Multiple supplies may be required. Power supply is specified for Sky Factory IRIS Series fixtures only. Sunricher DMX 512 & RDM Decoder (where specified) Receives power cables from IRIS light box and signal wires from LPC1 Decoder must be Separated Extra Low Voltage (SELV) Maximum Uout: 24VDC

Maximum Up: 5x(192)W Open air environment recommended Model and quantity per installation calculated by Sky Factory

Pharos LPC 1 (where specified) Extension for TPS5 connectivity Provides PoE power, DMX and DALI outputs, RS232 serial and 8 digital/analog inputs for triggering and integration 100-240V AC; DIN rail compatible Open air environment recommended

Pharos Expert Switch (where specified) Ethernet switch for LPS 5 to LPC 1 Provides power and data using PoE technology

#### Pharos TPS 5 wall control

12.7cm touch screen; 800x480 24bpp with on/off, dimming, and automated Sunrise-to-Sunset Biomimicry cycles
Single or Multi-room control with custom User Interface
Wall mounted w Universal Mounting Plate (provided)
Fits UK, EU& US 1-Gang and UK 2-gang backbox (not provided)
35' (10.6m) Cat 6 cable provided. PoE from IR-24PS
Comes in Jet Black or Signal White

Meanwell HDR-60-24 power supply Provides power to the Expert Switch Universal input 85-264V AC (277V AC operational) DIN rail mountable; Isolation class II Conforms to BS EN/EN61000-3-2

# **IRIS w Aperture**

Back Illuminated Sky Image Ceiling IR-AP-CIR-3, IR-AP-CIR-4, IR-AP-CIR-5, IR-AP-ELP-4X6, and IR-AP-ELP-5X8

# **Circadian illusion of nature:**

The sunrise-to-sunset color shift and daylight variability fluctuations generated by IRIS are the result of its proprietary, cross-functional LED modules:

#### PRiSM LED -

The Proprietary *index* for Spectrum Modulation (PRiSM) combines seven distinct wavelengths that realistically generate the sky's natural color and light intensity changes from sunrise to sunset.

### DiAL LED -

The Daylight *intensity* Algorithm (DiAL) modulates daytime light intensity by mimicking the subtle and organic fluctuations of clouds moving across the sky.

Both the PRiSM and DiAL LED modules are custom-tailored by trained Sky Factory artists in accordance with the cloud patterns and spatial properties of each Open Sky Composition.

# **Sky Factory Luminaire:**

## Revelation and Aperture options –

24V DC

- Junction box 5 port connector provided and required
- Use 5-conductor supply cord with outside diameter between 10-13.462mm
- Junction box terminal block wire sizes: 0.2-2.5mm<sup>2</sup> For specific fixture details, see pages 2-4

To explore specific combinations of IRIS power supplies, control gear and Sky Factory luminaires, contact a Sky Factory SkyDesigner at 866.759.3228 or visit www.skyfactory.com

# **Sky Factory** IRIS w Aperture Luminous SkyCeilings Ref. No. DK-128546-UL

**IECEE CB SCHEME** 



# **IRIS w Aperture Luminaires**

### Lighting (IRIS LED back-lit luminaire):

Circadian illusion of nature featuring location-specific, sunrise-to-sunset biomimicry and light intensity algorithms. For details, see page 1

Type IC, inherently protected

Strict LED binning standards assure consistent & high quality illumination Polychromatic LED lamps positioned to match the composition of SkyTile image selection State of the art back lit technologies provide uniform illumination for the Luminous SkyTile graphic Housed in a white powder-coated (non-ferrous) aluminum frame Moisture and chemical resistant Pre-wired junction box with a 5 port connector



Acrylic, Acrylite, or polycarbonate substrate

Durable and easy to clean non-glare matte finish

High resolution reproduction from proprietary digital image file

specifically designed for sunrise-to-sunset biomimicry

Content selection and customization of Images a distinguishing feature of our products See our image library on our website and/or speak with a Sky Factory SkyDesigner

Color-calibrated for daylight quality light source

Fade resistant pigmented inks containing UV inhibitors

### **Aperture Trim:**

Specifically designed to enhance visual depth Precut to fit light box and snaps in place Fire-rated MDF and highly durable white lacquer finish

#### **Intended Use:**

Photographic art luminaires are used for aesthetic purposes and are not suitable for room illumination or other purposes.

To explore specific combinations of IRIS Power Systems and Sky Factory luminaires, contact a Sky Factory SkyDesigner at 866.759.3228 or visit www.skyfactory.com

### **US Patent Information:**

Our products, systems, and methods may be protected by one or more of the following US Patents: Pat. 9,164,011, Pat. 8,851,700, Pat. 7,959,316, and Pat. 7,481,550, as well as other patents pending.







# **Sky Factory** IRIS w Aperture Luminous SkyCeilings Ref. No. DK-128546-UL





# **IRIS Aperture Circle Series**

## **Key Attributes:**

Large single image tile Enhanced illusion with trim to image panel interstice Non-ferrous, RF-free construction Minimal assembly





| Model       | Amps <sup>1</sup> Power <sup>1</sup> Weight<br>@ 24V DC  | Dimensions  |
|-------------|--|---|
| IR-AP-CIR-3 | 3 72   |   |
|             | 23 lbs (10.5kg)<br>Per suspension point 5.8 lbs (2.7kg)  | 8 3/8" (21.3cm) high<br>32 1/2" (82.6cm) EcoPlus light box outside dim.<br>36" (92cm) trim outside dim. |
| IR-AP-CIR-4 | 5 120  |   |
|             | 40 lbs (18.2kg)<br>Per suspension point 10 lbs (4.6kg)   | 8 3/8" (21.3cm) high<br>44 1/2" (113cm) EcoPlus light box outside dim.<br>48" (122cm) trim outside dim. |
| IR-AP-CIR-5 | 7.85 188.4   |   |
|             | 63 lbs (28.6kg)<br>Per suspension point 15.8 lbs (7.2kg) | 8 3/8" (21.3cm) high<br>56 1/2" (144cm) EcoPlus light box outside dim.<br>60" (153cm) trim outside dim. |

<sup>1</sup>Maximum potential power output shown. Programmed power output typically 30% less.

#### **Ceiling Clearance:**

Minimum space required above finished ceiling or grid: 8.375" (21.3cm) not including means to connect suspension to building structure

## **Configurations:**

For sample configurations, go to skyfactory.com

### Installation:

IRIS Aperture luminaires are designed to be recessed in a variety of grid and hard ceilings.

#### **CE Compliant:**

IRIS Aperture Series when used with IRIS Control Gear and Power Supplies CE Certified

# Sky Factory IECEE IRIS w Aperture Luminous SkyCeilings Ref. No. DK-128546-UL



# **IRIS Aperture Ellipse Series**

## **Key Attributes:**

Large single image tile Enhanced illusion with trim to image panel interstice Non-ferrous, RF-free construction Minimal assembly





| Model         | Amps <sup>1</sup> Power <sup>1</sup><br>@ 24V DC | Weight                              | Dimensions  |
|---------------|--|-------------------------------------|---|
| IR-AP-ELP-4x6 | 7.95 190.8                                       |                                     |   |
| IR-AP-ELP-5x8 | Per suspension point<br>9.91 237.84              | 62 lbs (28.2kg)<br>15.5 lbs (7.1kg) | 8 3/8" (21.3cm) high<br>44 1/2" x 68 1/2" (113cm x 174cm) EcoPlus light box outside dim.<br>48" x 72" (122cm x 183cm) trim outside dim. |
|               | Per suspension point                             | · • • • •                           | 8 3/8" (21.3cm) high<br>56 1/2" x 92 1/2" (144cm x 235cm) EcoPlus light box outside dim.<br>60" x 96" (153cm x 244cm) trim outside dim. |

<sup>1</sup>Maximum potential power output shown. Programmed power output typically 30% less.

#### **Ceiling Clearance:**

Minimum space required above finished ceiling or grid: 8.375" (21.3cm) not including means to connect suspension to building structure

#### **Configurations:**

For sample configurations, go to skyfactory.com

#### Installation:

IRIS Aperture luminaires are designed to be recessed in a variety of grid and hard ceilings.

#### **CE Compliant:**

IRIS Aperture Series when used with IRIS Control Gear and Power Supplies CE Certified