# C DAY-O-LITE

Harmony Series | HML 2x2

Date

Project

Туре

Qty



Notes



Note DLC options at bottom of page



#### **Features**

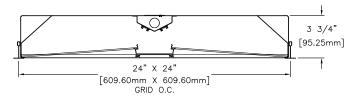
Steel housing, extruded aluminum divider rails w/specular aluminum inserts.

LED optimized optics for smooth even illumination without glare.

For installation in a wide variety of suspended grid ceilings, including Slot Grid and Tegular.

High efficiency driver for custom lumen packages. 0-10V dim-ming to 1% standard.

High efficacy LEDs in 80 or 90 CRI, tunable white and color.



### **Ordering Guide**

| MODEL             | OPTICS   | сст   | LUMENS <sup>4</sup>  | SIZE     | MOUNTING⁵   | FINISH  | OPTIONS   |
|-------------------|--|---|--|----------|---|---|---|
| HML-A-D           |  |   |  | 22       |   |   |   |
| HML-A-D<br>Direct | SI =Satin Ice<br>Acrylic Lenses<br>(shown)<br>FL = Flat<br>Satin Ice Acrylic<br>Lenses | STATIC WHITE'<br>27 = 2700K<br>30 = 3000K<br>35 = 3500K<br>40 = 4000K<br>50 = 5000K<br>BIOS SkyBlue <sup>2</sup><br>Spectrally optimized circa-<br>dian solutions.<br>TUNABLE WHITE <sup>3</sup><br>(2700K-6500K)<br>2DIM10 = for 0-10V<br>2DMX = for DMX<br>2PSQ = for Lutron<br>2ESN = for Philips<br>2CAS = for Casambi<br>RGB + WHITE <sup>3</sup><br>RGB = RGB<br>RGBW = RGBW<br>ADVANCED COLOR <sup>3</sup><br>125mm incremental pixel<br>color control for chases<br>and animated effects. | VLO = 1900L<br>(15W, 127LPW)<br>LO = 2430L<br>(21W, 122LPW)<br>SO = 3250L<br>(28W, 116LPW)<br>HO = 4060L<br>(35W, 116LPW<br>VHO = 5075L<br>(44W, 115LPW)<br>Consult factory for<br>additional lumen<br>packages.<br>All values are<br>nominal. | 22 = 2x2 | G = Grid<br>MG = Mini<br>Grid<br>SG = Slot<br>Grid<br>S = Surface<br>F = Flange<br>See all mount-<br>ing options<br>page 4. | W = White<br>CC = Custom<br>Color<br>AMW =<br>Anti-Microbial<br>White | DIMMING DRIVERS<br>DIM10 = 0-10V (1%) - Standard<br>DIMSR = 0-10V (5.0%) Sensor Ready<br>DIMST = Step Dimming (40%/100%)<br>DALI = DALI (5.0%)<br>LUTRON™ DIMMING DRIVERS<br>LDE1 = Hi-Lume™ 1% EcoSystem™<br>L3DA3W = Hi-Lume™ 1% 3-Wire<br>SENSORS & CONTROLS<br>ESN = Philips™ EasySense<br>DAY = Daylight Harvesting<br>OCC = Occupancy Sensor<br>CAS = Casambi Bluetooth control<br>VDO = Vive Sensor by Lutron<br>EMERGENCY<br>EMC = Emergency Circuit<br>GTD = Generator Transfer Device<br>EPC4 = 4W Emergency Battery Pack<br>EPC10 = 10W Emergency Battery Pack<br>EPC12 = 12W Emergency Battery Pack |

<sup>1</sup> CCT @ 80+CRI, 3SDCM. For 90CRI add prefix "9"; ex: 935 = 3500K, 90CRI.

<sup>2</sup>BIOS SkyBlue Biological Static & Dynamic page 3.

<sup>3</sup>Tunable White, RGB +White and Advanced Color ordering codes page 2.

<sup>4</sup>DLC options are limited to FL optics, static white 35/40K CCT @ 80CRI, SO lumens, all mounting, all finishes, and all options excluding DIMST.

<sup>5</sup>See page 4 for all mounting options.



#### TUNABLE WHITE - Fixture Level Control



Day-O-Lite offers Tunable White in a range from 2700K-6500K CCT @ 80+CRI and 3SDCM color accuracy for a range of two-channel control options. Consult factory for 90CRI, electrical specifications and other details for each option below.

**2ESN** Option combines tunable white light with a fixture integrated occupancy and daylight harvesting sensor. CCT and intensity is controlled wirelessly with kinetic switches (by Illumra and others). Occupancy and daylight harvesting controlled automatically with parameters configurable with the Philips MasterConnect app available for Android and iPhone smart phones.

Applications:

- Spaces occupied overnight (~ 7pm to 7am)
- 24-hour spaces
- Shiftwork & Hospitals
- Senior Living, Alzheimer's Dementia & Assisted Living
- Higher Education, including student and staff
- Workplace, including areas occupied after 7pm

Ordering Codes:

2DIM10 = 0-10V 2DMX = DMX 2PSQ = Lutron Quantum 2CAS = Casambi Wireless 2ESN = Philips EasySense

**RGB + WHITE** - Fixture Level Control



Combine RGB for color effects with LO/SO/HO white CCT's for **general illumination** in a host of applications. All options require DMX control (by others). 80CRI w/3SDCM color accuracy is standard. Consult factory for 90CRI, electrical specifications and other details for each option below. May not be compatible with all fixture variations - consult factory for details when ordering.

Applications:

- Entertainment Spaces
- Hospitality & Banquet
- Theatre & Stage
- Seasonal Applications
- Branding
- Wayfinding

Ordering Codes:

 RGB
 = RGB only

 RGB27
 = RGB w/2700K

 RGB30
 = RGB w/3000K

 RGB35
 = RGB w/3500K

 RGB40
 = RGB w/4000K

 RGB50
 = RGB w/5000K

#### ADVANCED COLOR - 125mm Pixel Level Control



Day-O-Lite's Advanced Color options combine RGB or RGBW with multi-pixel control for advanced **chases**, animated **visual effects** and other programmable scenes with **125 mm pixel** granularity. Choose from a vibrant color palette with RGB or RGBW LEDs for seamless color mixing and dimming - the perfect replacement for glass neon with improved reliability and durability.

Requires configuration with a remote proprietary digital drive power supply. Auto-addressing makes setup and commissioning quick and easy. DMX (by others) required for control. May not be compatible with all fixture variations - consult factory for details when ordering.

Applications:

- Architectural Installations
- Digital Signage
- Arcades, Clubs
- Theatre & Stage
- Film & TV sets
- Indoor/Outdoor (IP66)

Ordering Codes:

 ACRGB
 = RGB only

 AC27
 = RGB w/2700K

 AC30
 = RGB w/3000K

 AC40
 = RGB w/4000K

## **BIOS SkyBlue**

BIOS SkyBlue biological technology brings the benefits of blue skies inside. BIOS SkyBlue is the only spectrally optimized circadian solution to pinpoint the region that drives wellness benefits including: increased alertness, enhanced productivity, better mood, and better sleep. More information may be found at www.bioslighting.com or by contacting Day-O-Lite directly.

#### BIOS Biological Static - Daytime Solution

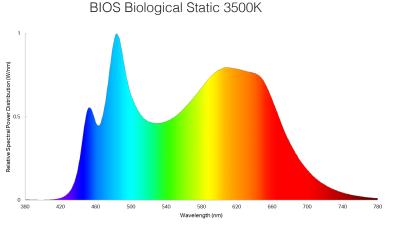
BIOS Biological Static solutions are designed for daytime applications. BIOS Static Biological LED features key BIOS SkyBlue<sup>™</sup> (490nm) for maximum daytime circadian impact. BIOS Static Biological LED Light Engines are available in 3000K, 3500K, and 4000K. Lighting controls are easy; simply switch the lights on/off or the lights can be dimmed using a single-channel constant current (CC) LED driver with any standard dimming interface.

Applications:

- Spaces occupied during the daytime ~7am 7pm
- K-12 Schools / Higher Education
- Offices
- Daytime Adult Care Facilities
- Medical Offices

BIOS Biological Static Ordering Codes:

**B30** = 3000K **B35** = 3500K **B40** = 4000K



#### BIOS Biological Dynamic - Day & Night Solution A

BIOS Biological Dynamic solutions are designed to transition from daytime to evening in a dim-to-warm protocol. The daytime CCT includes full BIOS SkyBlue<sup>™</sup> (490nm) for maximum daytime circadian impact, while the evening spectrum removes BIOS SkyBlue<sup>™</sup> altogether, providing a minimal circadian stimulus after hours. Available in 3000K-2700K, 3500K-3000K and 4000K-3500K. Simply dim the lights in the evening to remove the daytime SkyBlue wavelengths (490nm) and convert your lights from day mode to night mode via a single controller (0-10V, ELV, DMX, Wireless).

#### BIOS Biological Tunable White - Day & Night Solution B

BIOS Biological Tunable solutions are designed to transition from daytime to evening in a dim-to-warm protocol. The daytime CCT includes full BIOS SkyBlueTM (490nm) for maximum daytime circadian impact, while the evening spectrum removes BIOS SkyBlueTM altogether, providing a minimal circadian stimulus after hours. Available in 3000K-2700K, 3500K-3000K and 4000K-3500K. Simply dim the lights in the evening to remove the daytime SkyBlue wavelengths (490nm) and convert your lights from day mode to night mode via a single controller (0-10V, ELV, DMX, Wireless).

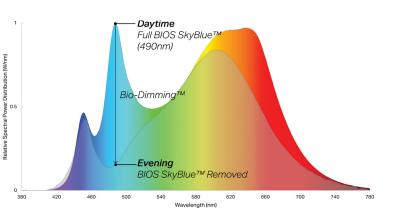
BIOS Biological Tunable is also compatible with two-channel color tuning systems. Simply dim the lights in the evening to convert your lights from day mode to night mode via a multi-channel controller (0-10V, ELV, DMX, Wireless). 3000K, 3500K and 4000K CCTs all dim to 2700K.

Applications:

- Spaces occupied overnight (~ 7pm to 7am)
- 24-hour spaces
- Shiftwork & Hospitals
- Senior Living, Alzheimer's Dementia & Assisted Living
- Higher Education, including student and staff
- Workplace, including areas occupied after 7pm

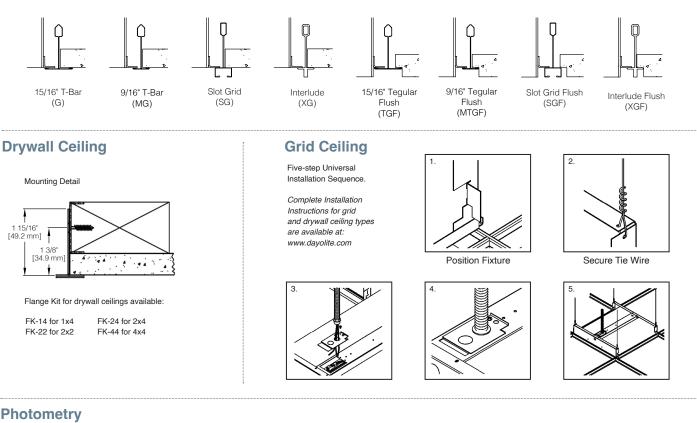
| BIOS Biological           | BIOS Biological           |
|---------------------------|---------------------------|
| Dynamic White             | Tunable White             |
| Ordering Codes:           | Ordering Codes:           |
| <b>B30D</b> = 3000K-2700K | <b>B30T</b> = 3000K-2700K |
| <b>B35D</b> = 3500K-3000K | <b>B35T</b> = 3500K-2700K |
| <b>B40D</b> = 4000K-3500K | <b>B40T</b> = 4000K-2700K |



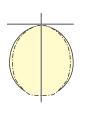


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#### **Photometry**



HML-A-D-SI-40-VLO-22 CCT: 4000K WATTS: 15 LUMENS: 1900 LPW: 127 Distribution: 100% Direct HML-A-D-SI-40-LO-22

CCT: 4000K WATTS: 21 LUMENS: 2430

LPW: 116 LPW

#### HML-A-D-SI-40-SO-22 CCT: 4000K WATTS: 28 LUMENS: 3250 LPW: 116 Distribution: 100% Direct

HML-A-D-SI-40-HO-22

CCT: 4000K

WATTS: 35

LPW: 116

LUMENS: 4060

#### HML-A-D-SI-40-VHO-22 CCT: 4000K WATTS: 44 LUMENS: 5075 LPW: 115 Distribution:

100% Direct

#### Specifications

CONSTRUCTION: 20 gauge CRS housing and internal components. Extruded Aluminum divider rails with specular aluminum inserts.

REFLECTOR: 20 gauge CRS finished in highly reflective baked white enamel with pre-finished reflective LED tray.

**OPTICS:** LED optimized Satin Ice (SI) acrylic lay-in lenses.

LED Static white LED modules in 30/35/40 & 50K CCT, 80/90CRI. Lumen maintenance minimum L<sub>20</sub>= 50,000 hours. 3 SDCM color consistency. BIOS SkyBlue, RGB, RGBW and Tunable White options available.

DRIVER Standard driver is Class 2 AOC 0-10V to 1%, 120/277V input, PF > 90%, THD < 20 @ 120V. Additional dimming protocols available. All drivers prewired from factory for connection to control system (by others). Field replaceable.

MOUNTING: Standard installation is in an exposed inverted T-bar ceiling. Fixtures are supplied with four support brackets for additional support to T-bar. May also be installed in a plaster ceiling (F/TRL mounting option with Flange); field replaceable.

FINISH: Housing and components finished in baked white enamel.

CERTIFICATION: Luminaires are cETLus listed conforming to UL STD. 1598 and certified to CSA STD C22.2 NO. 250.0. Suitable for dry & damp locations. Union Made in the United States of America. I.B.E.W. RoHS compliant.

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