

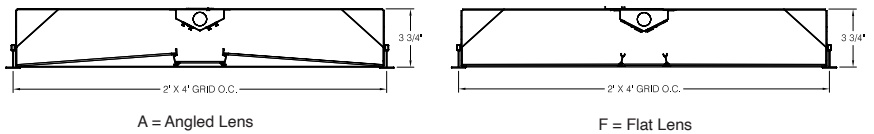
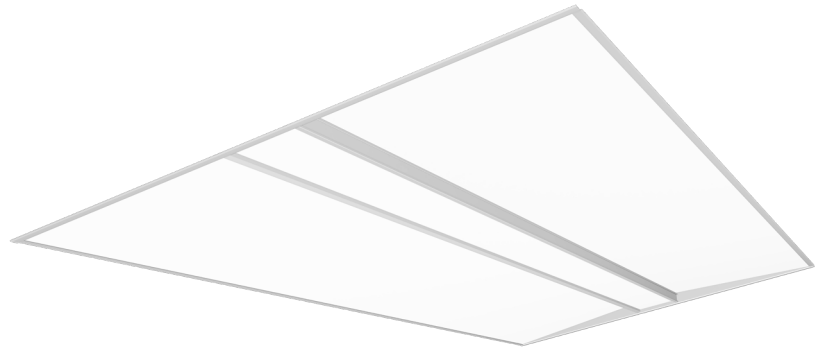


Harmony Series | HML 2x4

Date		Notes
Project		
Type	Qty	

Features

- DLC V5.1 Standard Listed up to 121LPW.
- Compatible with Armstrong® ceiling systems.
- Unique three lens design w/specular aluminum inserts.
- 3 3/4" low profile housing fits shallow plenum spaces.
- LED optimized optics for smooth, even illumination.
- High efficiency driver for custom lumen packages.
- 0-10V dimming to 1% standard or Dim-to-Off.
- Options for 90CRI, Tunable White, RGB, RGBW, and RGBWW.
- Bios SkyBlue™ circadian solutions available.
- Declare Red List Approved.



Ordering Guide



MODEL	OPTICS	CCT	LUMENS	SIZE	MOUNTING ⁶	FINISH	OPTIONS
				24			
HML-A Angled Lens	SI =Satin Ice Acrylic Lenses	STATIC WHITE¹ 27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K	STANDARD VVLO = 3020L (27W, 112LPW) LO = 5430L (41W, 111LPW) SO = 6040L (54W, 110LPW) HO = 7550L (68W, 110LPW) VHO = 9050L (81W, 109LPW)	24 = 2x4	G = Grid 15/16" T-Bar MG = Mini Grid 9/16" T-Bar SG = Slot Grid SGF = Slot Grid Flush XG = Interlude XGF = Interlude Flush TGF = Regular Flush 15/16" T-Bar XGF = Regular Flush 9/16" T-Bar ACY = Aircraft "Y" Cable S = Surface F = Flanged	W = White CC = Custom Color AMW = Anti-Microbial White	DIMMING DRIVERS DIM10 = 0-10V (1%) Standard DTO = 0-10V (Dim-to-Off) DIMST = 0-10V Step Dimming 347 = 0-10V (347V) DIMSR = DALI Sensor Ready (5.0%) DALI = DALI (5.0%) DMX = DMX LUTRON™ DIMMING DRIVERS LDE1 = Hi-Lume™ 1% EcoSystem™ L3DA3W = Hi-Lume™ 1% 3-Wire SENSORS & CONTROLS⁷ ESN = EasySense Sensor AWNS = Lutron Athena Sensor AWNRR = Lutron Athena Node CAS = Casambi Wireless Control EMERGENCY & OTHER⁸ EMC = Emergency Circuit EPC4 = 4W Emergency Battery Pack EPC7 = 6.5W Emergency Battery Pack EPC10 = 10W Emergency Battery Pack EPC12 = 12W Emergency Battery Pack WIRING & OTHER FWH = Flexible Wiring Harness DWH ⁹ = DMX Wiring Harness FK24 = Flange Kit
HML-F Flat Lens	Decorative Sky panel and other graphic lenses available. Consult factory.	BIOS SkyBlue² Spectrally optimized circadian solutions. TUNABLE WHITE³ (2700K-6500K) 2DIM10 = for 0-10V 2DMX = for DMX 2ESN = for Philips 2CAS = for Casambi DIM-TO-WARM³ (2700K-6500K) DTW = Dim-to-Warm RGB & WHITE RGB = RGB RGBW = RGBW ⁴ RGBWW = RGBWW (2700K-6500K)	CUSTOM For custom lumens please specify any value < VHO. DLC LUMENS⁵ V5.1 Standard 3500K S3D = 6213L (53W, 118LPW) @4000K S4D = 6416L (53W, 121LPW)				

¹CCT @ 80+CRI, 3SDCM. For 90CRI add prefix "9"; ex: 935 = 3500K, 90CRI.
²BIOS SkyBlue Biological Static & Dynamic circadian lighting page 3.
³Tunable White, Dim-to-Warm and RGBW ordering codes page 2.
⁴Add white CCT to RGBW; ex: RGB35 = RGB w/3500K white.
⁵DLC options are limited to FL optics, static white 35/40K CCT @ 80CRI, SO lumens, all mounting, all finishes, and all options excluding DIMST.

⁶See page 4 for mounting option details.
⁷Sensors and control options to be commissioned wirelessly in the field using applicable Smart Phone apps by qualified personnel; page 5.
⁸EPC6 is standard unless otherwise specified. EPC not for DMX drivers.
⁹DMX driver leads and through wiring with RJ-45 connectors.

TUNABLE WHITE - Fixture Level Control



Tunable White available in a range of 2700K-6500K CCT @ 80+CRI and 3SDCM color accuracy. Control via two 0-10V dimmers (one CCT, one intensity) controllers. Consult factory for 90CRI, electrical specifications and other details for each option below.

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
- Workplaces, including areas occupied after 7pm

Ordering Codes:

- 2DIM10** = 0-10V
- 2DMX** = DMX
- 2CAS** = Casambi Wireless
- 2ESN** = Philips EasySense Wireless
(Occupancy/Daylight Harvesting and Tunable White)

DIM-to-WARM - Fixture Level Control



Dim-to-Warm mimics incandescent dimming by warming the CCT from 6500K to 2700K as light levels are dimmed. 0-10V driver is standard.

Applications:

- Hospitality
- Entertainment
- Living Facilities

Ordering Code:

- DTW** = Dim-to-Warm

RGBW & RGBWW¹ - Fixture Level Control



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. May not be compatible with all diameters of COML-24. 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
- RGBWW** = RGB w/2700K-6500K

¹RGBW, RGBWW and Advanced Color options must be addressed and commissioned by knowledgeable controls/DMX professionals. Fixture integral DMX wiring harnesses (DWH) available. Consult factory for details.

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™ (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.

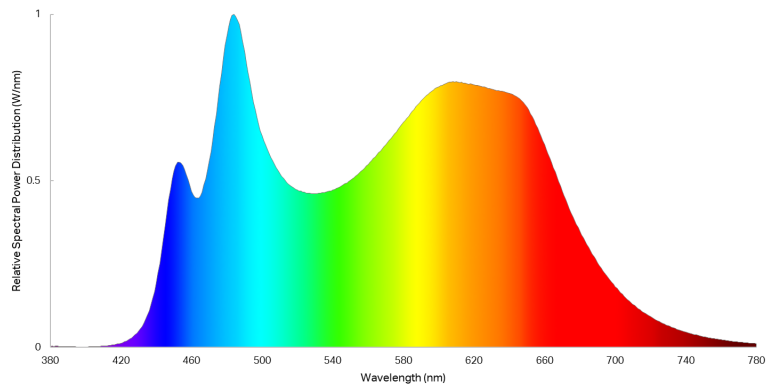
Applications:

- 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 Static 3500K



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™ (490nm) for maximum daytime circadian impact, while the evening spectrum removes BIOS SkyBlue™ 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 SkyBlue™ (490nm) for maximum daytime circadian impact, while the evening spectrum removes BIOS SkyBlue™ 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

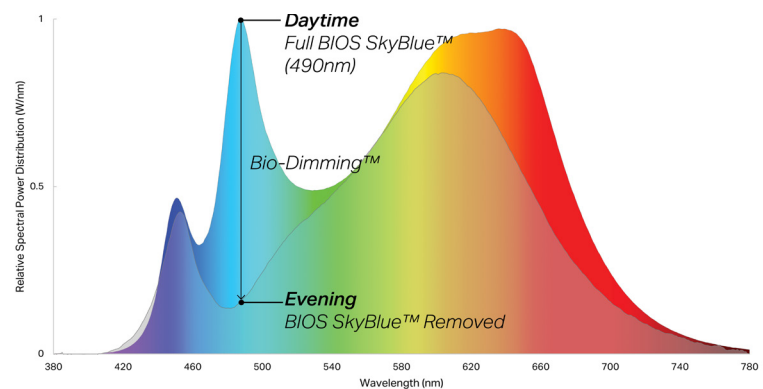
BIOS Biological
Dynamic White
Ordering Codes:

- B30D** = 3000K-2700K
- B35D** = 3500K-3000K
- B40D** = 4000K-3500K

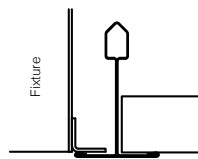
BIOS Biological
Tunable White
Ordering Codes:

- B30T** = 3000K-2700K
- B35T** = 3500K-2700K
- B40T** = 4000K-2700K

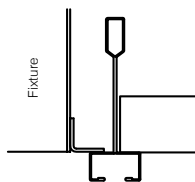
BIOS Biological Dynamic 3500K



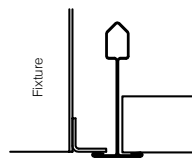
Grid Ceiling Mounting Options



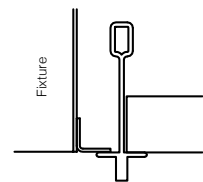
G
15/16" T-Bar



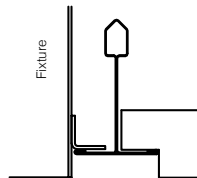
MG
9/16" T-Bar



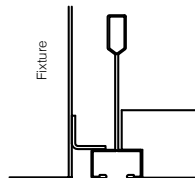
SG
Slot Grid



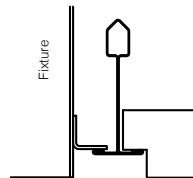
XG
Interlude



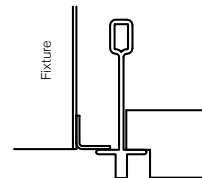
TGF
15/16" Tegular
Flush



MTGF
9/16" Tegular
Flush



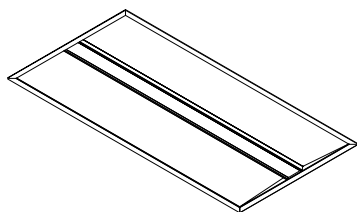
SGF
Slot Grid
Flush



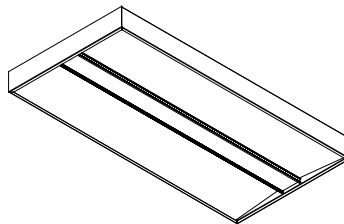
XGF
Interlude
Flush

Additional Mounting Options

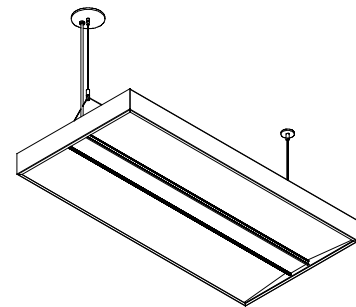
In addition to recessed mounting in grid ceilings Harmony may also be installed in plaster and sheetrock ceilings, surface mounted to ceilings, or suspended. Surface and suspended options are supplied with a finished exterior housing.



F
Flanged Housing
(plaster ceilings)



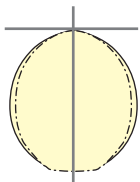
S
Surface Ceiling mount
w/finished housing



ACY
Suspended Aircraft
Cable (1/16" dia., 48"L)

FK-22 Flange Kit available for grid to plaster ceiling conversion

Photometry



HML-A-D-SI-40-**VLO**-24
CCT: 4000K
WATTS: 27
LUMENS: 3020
LPW: 112

HML-A-D-DP-SI-**LO**-24
CCT: 4000K
WATTS: 41
LUMENS: 5430
LPW: 111

HML-A-D-SI-40-**SO**-24
CCT: 4000K
WATTS: 54
LUMENS: 6040
LPW: 110

HML-A-D-SI-40-**HO**-24
CCT: 4000K
WATTS: 68
LUMENS: 7550
LPW: 110

HML-A-D-SI-40-**VHO**-24
CCT: 4000K
WATTS: 81
LUMENS: 9050
LPW: 109

HML-A-D-SI-35-**S3D**-24
DLC V5.1 Standard
CCT: 3500K
WATTS: 53
LUMENS: 6213
LPW: 118

HML-A-D-SI-40-**S4D**-24
DLC V5.1 Standard
CCT: 3500K
WATTS: 53
LUMENS: 6410
LPW: 121

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_{70} = 50,000 hours. 3 SDCM color consistency. BIOS SkyBlue, RGB, RGBW, RGBWW. Tunable White and Dim-to-Warm options available; field replaceable.

DRIVER: Standard driver is Class 2 AOC 0-10V to 1%, Dim-to-Off available. 120/277V input, PF > 90%, THD < 20 @ 120V. DMX, DALI & Lutron protocols available. All drivers prewired 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 T-bar brackets for additional support. May also be surface mounted, flanged for installation in plaster ceilings and suspended with aircraft cables.

FINISH: Housing and components finished in baked white enamel.

CERTIFICATION: 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 and BAA compliant. Declare Red List Approved.

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WEIGHT: Consult Factory.