ARCHIPELAGO
LIGHTING GROUP

lampar(A)RCH

LLHB | Tiny   ECO

Product Data Sheet

COMMERCIAL-GRADE

LED Linear High-Bay

BLUE(A)RCH® ENABLED

Network Lighting Controls

85W | 150W | 220W

Product Overview

INTENDED USE — Tiny series luminaire is the latest in ultra-economy yet high-performance LED linear highbay technology. Engineered to replace traditional fluorescent or metal halide highbays, Tiny delivers superior performance in a compact, easy-to-manage package.

The Tiny is also versatile and easy to install. It can be mounted in suspended or mounted environments, and is compatible with a variety of control systems.

CONSTRUCTION — The durable cast-aluminum housing is designed for durability and ruggedness. Finished with iron phosphate coating with rust inhibitor to protect against contaminants and oxidation.

OPTICS — The advanced optical design combines precision and uniform output. Crafted from high-grade polycarbonate, the refractor is carefully engineered to optimize light extraction, creating a radiant luminaire that enhances nighttime aesthetics. The UV-stabilized polycarbonate lens provides vandal resistance and improved light dispersion for better visibility.

ELECTRICAL — The light engine comprises long-lasting, energy-efficient LEDs mounted on an internal aluminum heat sink. This setup improves heat dissipation and extends the product's lifespan. These LEDs maintain 90% of their light output even after 50,000 hours of continuous operation.

WARRANTY — With a standard 7-Year/75,000hrs warranty, the Tiny is built to last. It can replace up to 2,000W MH, making it a reliable and cost-effective solution for a wide range of applications.

ARCHIPELAGO luminaires and LED components undergo rigorous testing by an independent laboratory to meet IESNA LM-79 and LM-80 standards for light output and lumen maintenance. LED color temperature is warrantied to shift no more than 180K over the standard warranty period. Correlated Color Temperature (CCT) follows the guidelines set forth in the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Applications

Warehouse   **Gym**   **Industrial**   **Retail**

Main Features

- Thermally Isolated Driver Design With 0-10V Dimming
- Iron + Aluminum for Superior Thermal & Structural Integrity
- Built-in 6KVa Surge Protection With Option for in-line Surge Protection
- Compact Design Weighs Less, Minimizes Installation Time, and Performs at the Highest Levels as a Full-sized Linear High Bay
- Advanced Lensing Meets DLCV5.1 Standard for Unified Glare Rating (UGR) With Optional Distribution Optics
- Eco-friendly Contractor Packaging Reduces Packaging Waste
- Standard Suspend Mounting Hardware (Included)
- 70% Lumen Maintenance at >100,000 Hours
- Advanced Driver is Rated for AC97-305Vin
- Suitable for Use in -40°F to 122°F

Product Warranty*

7-Year Warranty   75,000 Hrs

* Standard warranty. Extended warranty available.

Highlights

Project Details

Project Name:

Fixture Schedule:

Project Number:

Notes:

Key Specifications

Features	Description
blue(A)RCH™ Controls	SIG-qualified Bluetooth Mesh lighting control solution. NLC compliant. Technology by Silvair.
Ultra-Economy High Performance	**ECO** Powerful performance, economical solution
Standard Extended Warranty	Up to 7-Year, 75,000 Hrs

- **Dimming:** 0-10V
- **Efficacy:** 136~140lm/W
- **IP:** IP20 Indoor Damp Location
- **Input Voltage:** 120-277V & 277-480V
- **Power Factor (PF):** >0.9 Non-Flicker
- **Operating Temperature):** -40°F - 122°F
- **Total Harmonic Distortion (THD):** <20%
- **Color Rendering Index (CRI):** >80
- **Housing:** Iron + Aluminum

Certifications

UL LISTED · DLC LISTED · FC · RoHS · DAMP LOCATION

Model Specifications

Model	Wattage (W)	Lumen (lm)	Efficacy (lm/W)	CCT (K)	Voltage (V)	CRI
LLHB085	85W	11,900lm	140lm/W			
LLHB150	150W	21,150lm	141lm/W	5000K	120-277V 277-480V	>80
LLHB220	220W	30,800lm	140lm/W			

Sizing & Measurements

Model	Length (in)	Width (in)	Height (in)	Net Weight (lb)	Carton Qty	Measurements
LLHB085	14.17	11.02	1.89	4.41lb	1pc/ctn	1.89" 14.17" 11.02"
LLHB150						
LLHB220	18.11	11.81	1.89	6.16lb	1pc/ctn	1.89" 18.11" 11.81"

Suspension Aircraft Cables

Suspended mount aircraft cables comes standard on every fixture.

Housing

Advanced thermal management anti-rust steel frame with white coat finish. Suitable for suspended pendent and surface mount.

Threaded Conduit

Support threaded throughput wires from conduit holes for easier end-to-end wiring connections.

Optional Emergency Driver

Operate for up to 90min w/ out line-voltage power.

Optional Microwave/PIR Motion Sensor

Optional motion sensor allows for security and energy savings.

Ordering Guide[1]

Model Series	Wattage (W)			Voltage (V)		Series		CCT (K)	
LLHB LED Linear High-Bay	**085** **150** **220**	85W[2] 150W 220W	-	**U** **H**	120-277V 277-480V[3]	**T**	Tiny	**50**	5000K
CATALOG #:									
LLHB			-			T		50	

Options Guide[4]

EM Driver[8]		Motion Sensor		Power Cord / Whip / Plugs[5]		Step-Down Transformer		Surge Protection (In-Line)[6]		Wire Guard & Mounts	
☐ **EM20**[8] ☐ **JBX**[8]	20W EM Driver Mounting J-Box for EM Driver	☐ **BLS** ☐ **RM** ☐ **NLC**	PIR Bi-Level Sensor Remote Control (for bi-level sensor) blueARCH™ Controls PIR Bi-Level Sensor	☐ **6C/3** ☐ **15W/5** ☐ **L5-15P** ☐ **L5-20P** ☐ **L6-15P** ☐ **L7-15P** ☐ **L7-20P** ☐ **L8-20P**	6FT cord, with plug (3-wire: L/N/G) 15FT whip, no plug (5-wire: L/N/G + 0-10V) Twist lock options (Compatible to **6C/3**)	☐ **325** ☐ **BSD**	325Amp / 260W Max Mounting Bracket for SDT	☐ **SP10U** ☐ **SP10H** ☐ **SP20U** ☐ **SP20H**	10KVa / 277V 10KVa / 480V 20KVa / 277V 20KVa / 480V	☐ **WG150** ☐ **WG220** ☐ **PDM** ☐ **SFM** ☐ **SPM**	Wire Guard (150W Max) Wire Guard (220W Max) Pendant Kit Surface Kit Suspension Kit[7]
OPTIONAL ACCESSORIES #:											
	/		/		/		/		/		/

NOTE:
1. Only one selection may be applicable within the same category.
2. 85W special order, made to order
3. For 480Vin applications, reference Step-Down Transformer in the Options Guide.
4. Multiple selections may be applicable within the same option category. See Compatible Accessories below for details.
5. Standard cord length = 1.0FT
6. Standard driver on-board SPD = 6KVa
7. Standard 6FT suspension kit is included with fixture (*ISPM*).
8. When ordering the EM Driver, the J-Box MUST be included with the order

Mounting Options

Suspension Mount w/ Aircraft Cables[1]
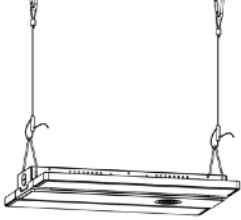
Conduit Pendant Mount[2]
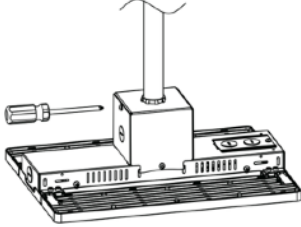
Surface Bracket Mount[2]
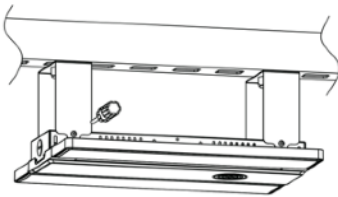
NOTE:
1. Standard — Aircraft cables are included by default.
2. Optional — See Compatible Accessories below.

Photometrics

85W — Luminous Intensity Distribution Curve / The Average Illuminance Effective Figure

150W — Luminous Intensity Distribution Curve / The Average Illuminance Effective Figure

220W — Luminous Intensity Distribution Curve / The Average Illuminance Effective Figure

DLC Model Guide

Product ID	Model No.	DLC	Controls	Lumen	Efficacy	CCT	THD	PF
	LLHB085-UT50	Premium	Yes			4000K — 5000K	20%	0.9
	LLHB150-UT50	Premium	Yes			4000K — 5000K	20%	0.9
	LLHB150-HT50	Premium	Yes			4000K — 5000K	20%	0.9
	LLHB220-UT50	Premium	Yes			4000K — 5000K	20%	0.9
	LLHB220-HT50	Premium	Yes			4000K — 5000K	20%	0.9

blueⒶRCH™ Controls: Highbay Applications

Commission your own blueⒶRCH™ Controls NLC deployment

Planning
Web App

1. **Plan Light Behavior:** Decide how lights function in each area.
2. **Set Up Project:** Create a project and invite collaborators.
3. **Zone & Profile:** Map your space, define zones, and configure lighting settings (cloud-based).

Motion Sensor

Implementation
Mobile App

4. **Install Devices:** Add lights, sensors following the pre-configured plan.
5. **Assign Switches:** Link physical switches to their zones.
6. **Calibrate Sensors:** Fine-tune ambient light sensors for optimal performance.

SIG Mesh to DALI

Verification
Mobile | Web App

7. **Verify Functionality:** Ensure everything works as planned (no area errors).
8. **Mesh Check:** Test mesh network strength.
9. **Review Report:** Analyze commissioning results.

Network Relay

Compatible Accessories

Category	Ordering Code	Model No.	Description	Sub-Assembly & Compatible Controllers		
				Ordering Code	Model No.	Description
EM Driver *Note: When ordering the EM Driver, the J-Box MUST be included in the order.*	EM20	EM20-CMB/260	20W | 260Vdc Output	JBX	LLHB-T2/JBX	J-Box | EM Driver
Motion Sensor Field Installable	BLS	MSM-HTO/07P3/BLS	Outdoor | Bi-Level | Microwave	RM	RM-HT/06S	H-Series w/ LCD Display
	NLC	MSP-SRO/903P3/NLC	Silvair BTLE NLC | PIR blueⒶRCH™ Controls *Technology by SILVAIR*	DCT DDI	CSR-DCT/2421 CSR-DDI/2421	SIG Mesh to DALi
				SVV SVVT	RSR-SVV/2421 RSR-SVVT/2421	Networked Relay Device
Power Cord / Whip / Plugs	6C/3	91603 92065	3-Prong Plug | 6FT | 16AWG | 100-300V			
	15W/5	C15/Whip	15FT Whip | 5-Wires	L5-15P L5-20P L6-15P L7-15P L7-20P L8-20P	PL5-15P PL5-20P PL6-15P PL7-15P PL7-20P PL8-20P	
Step-Down Transformer	325	SDT-HTO/325	480V to 207V | 325Va Max	BSD	LLHB-TY1/BSD	Bracket Mount for SDT
Surge Protection	SP10U SP10H SP20U SP20H	10SP/277 10SP/480 20SP/277 20SP/480	In-Line SPD | 10KVa | 277V In-Line SPD | 10KVa | 480V In-Line SPD | 20KVa | 277V In-Line SPD | 20KVa | 480V			
Wire Guard / Mounts	WG150 WG220	LLHB-TY1/WG150 LLHB-TY1/WG220	Wire Guard | 150W Max Wire Guard | 220W Max			
	PDM	LLHB-TY1/PDM	Pendant Mount Kit			
	SFM	LLHB-TY1/SFM	Surface Mount Kit			
	SPM	LLHB-T2/SPM	Suspension Mount Kit • *Standard length is 6FT* • *Custom length is available, please contact your local sales person*			