# HML2
## LED High-Performance High Bay

Project

Catalog

Type

Date

## Product Description

NICOR introduces the newest high bay product line: the patent pending, ultra-efficient, high performance HML2 high bay. With only a 12.6"x23" footprint its compact design offers an impressive light output with simple, single-person installation. The DLC 5.1 Premium certified fixture offers selectable wattage (320/270/220W), 3 available CCT's (3500, 4000, 5000, 5700K), sensor, and aisle distribution options. It's durable single-piece cast aluminum design is perfect for rugged applications like warehouses, gymnasiums, and other industrial or commercial spaces.

### Construction
• Fully cast aluminum body with integrated cooling features
• Top mounted wireway cover for easy wire access
• Polyester powder coat finish

### Optical System
• Standard diffused lens
• Optional aisle lens (45° x 100°) available
• Optional wide lens (105° x 105°) available
• Available CCTs of 3500K, 4000K, 5000K and 5700K with >80 CRI

### Electrical
• Selectable power levels: 320/270/220W
• Operating temperature rating of -4ºF to 131ºF (-20ºC to 55ºC)
• Input voltage of 120-277V, 277-480V input option available
• Dimming: 0-10V standard

### Controls
• Pre-installed 3.5mm sensor socket
• Field installable multifunction MW or PIR sensor available
• Standard full-range dimming with compatible 0-10VDC dimmers
• 12VDC output provides power to off-board sensors or controls
### NLC (Network Lighting Controls)
• Bluetooth Low Energy (BLE) mesh network providing Luminaire Level Lighting Control
• Field installable BLE PIR/Daylight sensor (NLCIND3.5) available
• Configurable with the NICOR NLC app available on iOS and Android devices
• Provides full dimming control with occupancy and daylight harvesting functions

### Mounting and Installation
• V-hook and 3' chain mounting system included
• Wireguard option available for increased fixture protection
• Pendant mount and surface mount kits available
• For installations where power surge may be possible, NICOR recommends installing additional surge protection at the fixture or electrical distribution panel

### Listings
• cULus1598 Listed for damp locations
• ASHRAE 90.1 compliance when specified with sensor option
• RoHS Compliant
• Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
• TM-21 Reported L70(10k) life >60,000 hours
• LM-79, LM-80 testing performed in accordance with IESNA standards
• DLC Premium and Standard Listing depending on optic distribution option
• UL impact test rated IK08/5 joules

### Warranty
• 5-year limited system warranty standard
• Warranty does not cover product failure due to an overvoltage event (power surge)



# HML2
## 320W/270W/220W
## 3500, 4000, 5000, 5700K
### LED High-Performance High Bay

IK08 | UL CERTIFIED | DLC LISTED PREMIUM | DAMP LOCATION RATED | 5 YEAR WARRANTY

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## Ordering Information

| Series | Version | Wattage | Input Voltage | CCT | Distribution | Sensor Socket | Emergency | Wiring Options |
|--------|---------|---------|---------------|-----|--------------|---------------|-----------|----------------|
| **HML** | **2** | **320WS** (320/270/220W) | **U** (120-277V) | **35** (3500K)[4] | **A** (general - 90°x90°) | **S** ( with socket) | **Blank** (No) | **Blank** (No) |
| | | | **H** (277-480V) | **40** (4000K) | **B** (wide - 105°x105°) | | **E40** (40W)[5] | **C** (Cord - 3-wire, 6ft)[1] |
| | | | | **50** (5000K) | **C** (aisle - 45°x100°) | | | **C4** (Cord - 4-wire, 6ft)[2] |
| | | | | **57** (5700K)[4] | | | | **F** (Flex Conduit - 6ft)[3] |

*Specifications and dimensions subject to change without notice.*
*1) C3 Cord is 18/3 wire, 6' long, black. Other lengths available upon request*
*2) C4 cord is 18/4 wire, 6' long, black, for use with Emergency enabled fixtures. Other lengths available upon request*
*3) Flexible metal conduit is 6' long, 18/3 wire configuration. Other lengths available upon request*
*4) 3500K & 5700K CCT available as special order*
*5) Emergency not available on HV fixtures*

### NICOR Lighting Controls (NLC)

HML2 can be converted to use with NICOR LIghting Controls (NLC) by installing the NLC sensor. See www.nicorlighting/network-lighting-controls for more information and NLC Component Data Sheets.
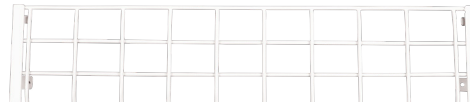
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## Motion Sensors

| | |
|---|---|
| Passive Infrared Motion Sensor | H12VSENSORPIR |
| Microwave Motion Sensor | H12VSENSORMW |
| Remote Control for Sensors | H12VREMOTE |
| NICOR Lighting Controls PIR Sensor | NLCIND3.5 |

## Wireguard Accessories

| | |
|---|---|
| Wireguard for HML2 | HML2WG |

## Mounting Accessory Kits

| | |
|---|---|
| Aircraft Cable Kit (10ft) | ACMK110 |
| Pendant Kit | HML1100-150PEND |
| Surface Mount Kit | HML100-150SURFACE |

*Pendant and surface mount kits compatible to all HML models*

## Emergency Battery Accessories

| | |
|---|---|
| 40W Battery Pack (120-347V) | HML1EM40WRVWH |

*For installation in the field by the end user*
*End user is reponsible for proper selection of battery pack to meet NFPA requirements*
*Emergency not available on HV fixtures*

## Plug Accessories

| | |
|---|---|
| 15A 125V Straight Bladed Plug | 515P |
| 15A 125V Twist Lock Plug | L515P |
| 15A 250V Twist Lock Plug | L615P |
| 15A 277V Twist Lock Plug | L715P |
| 20A 277V Twist Lock Plug | L720P |
| 20A 347V Twist Lock Plug | L2320P |
| 20A 480V Twist Lock Plug | L820P |

*Plugs not available for C4 (4-wire cord) or F (flex conduit) options*

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## Performance Data

| Standard Distribution | | | |
|---|---|---|---|
| Model Number | Lumens | Watts | Lumens/Watt |
| HML2320U40A | 31,418 | 221 | 142.2 |
| | 38,242 | 269 | |
| | 45,350 | 319 | |
| HML2320U50A | 31,582 | 221 | 142.9 |
| | 38,441 | 269 | |
| | 45,587 | 319 | |

## Photometric Data

| 320W 3500K | |
|---|---|
| Input Voltage (VAC) | 120-277 |
| System Level Power (W) | 318 |
| Delivered Lumens (Lm) | 44304 |
| System Efficacy (Lm/W) | 139.3 |
| Correlated Color Temp (K) | 3422 |
| Color Rendering Index (CRI) | 82 |
| Beam Angle (0) | 89.3 |
| Beam Angle (90) | 90.6 |
| Spacing Criteria (0) | 1.26 |
| Spacing Criteria (90) | 1.26 |

| CCT Data Multiplier | |
|---|---|
| 4000K | 1.024 |
| 5000K | 1.034 |



21327
15996
10664
5332
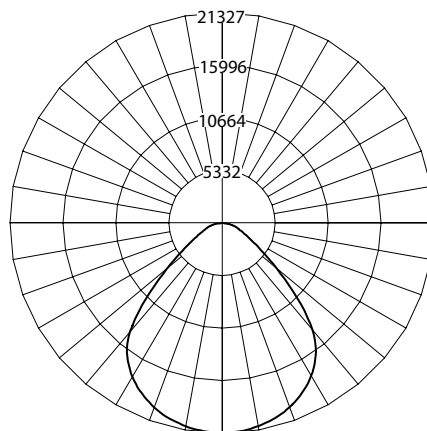
| Cone of Light Tabulation | | |
|---|---|---|
| Mounted height (Feet) | Footcandles Beam Center | Diameter (Feet) |
| 23 | 60.1 | 45.3 |
| 25 | 50.8 | 49.2 |
| 28 | 40.4 | 55.1 |
| 32 | 30.7 | 63.0 |

## Dimensions
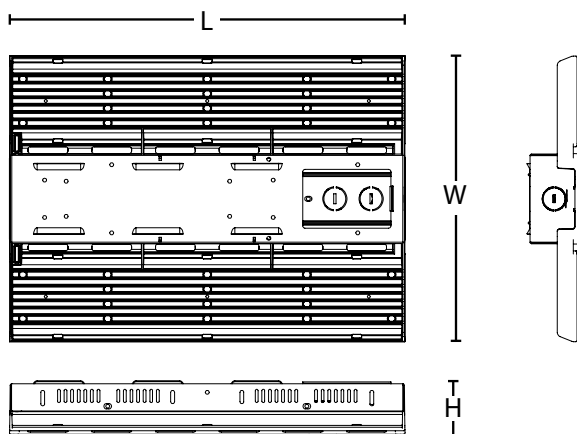


| Product Measurements | | |
|---|---|---|
| | **320/270/220W** | |
| Length: | 23.0 in. (585mm) | |
| Width: | 12.6 in. (320mm) | |
| Height: | 1.9 in. (48.5mm) | |

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## Sensors and Dimmers

### H12V PIR Low Voltage Motion Sensor
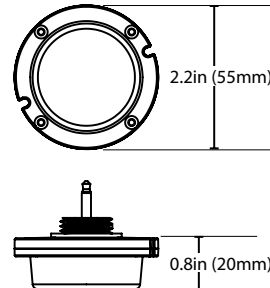See the individual spec sheet for further information

- Field installed 12VDC sensor
- Infrared motion detector with built in daylight sensor
- Remote control programmable
- Highly configurable:
  - Detection area
  - Hold time
  - Dimming level
  - Stand-by period
  - Stand-by dimming
  - Daylight harvesting threshold
- Max mounting height: 40ft (12m)
- IP65 Rated

2.2in (55mm)

1.3in (34mm)
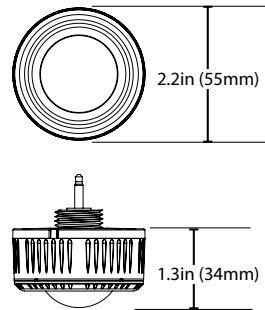
### Microwave Low Voltage Motion Sensor
See the individual spec sheet for further information

- Field installed 12VDC sensor
- Microwave motion detector with built in daylight sensor
- Remote control programmable
- Highly configurable:
  - Detection area
  - Hold time
  - Dimming level
  - Stand-by period
  - Stand-by dimming
  - Daylight harvesting threshold
- Max mounting height: 40ft (12m)
- IP65 Rated

2.2in (55mm)

0.8in (20mm)

### Remote Control for H12V Sensors
See the individual spec sheet for further information

- Allows programming of MW or PIR sensors
- Allows adjustment of:
  - Brightness
  - Hold time
  - Sensor Sensitivity
  - Daylight harvesting threshold
  - Stand-by dimming level
  - Stand-by time
  - Stand-by dimming

### NLC Bluetooth PIR/Daylight Sensor
See the individual spec sheet for further information

- Field installed 12VDC sensor
- Infrared motion detector with built in daylight sensor
- Commissioned with NLC App
- Highly configurable:
  - Occupancy/Vacancy Detection
  - Daylight Harvesting
  - High-End Trim
  - Full Range Dimming (0-10V)
  - Scene Control
  - Full Networking
- Max mounting height: 40ft (12m)
- IP65 Rated

### Recommended Dimmers*

Lutron NTSTV

Lutron DVSTV

Cooper SF10P

Legrand RH4FBL3PW

*Not a complete list. Check compatibility before installation.*

### 12VDC Output

There is an additional 12VDC output on the driver. This output can be used to provide power to external low voltage sensors or controls. Do not use the 12VDC output if a sensor is installed in the socket.

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