

HML1

LED High-Performance High Bay

Product Description

NICOR introduces the newest high bay product line: the patent pending, ultra-efficient, high performance HML high bay. With only a 10x14" footprint (on lower wattages), its compact design offers an impressive light output with simple, single-person installation. The DLC 5.1 Premium certified fixture offers a variety of wattage, 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
- CCTs of 3500K, 4000K, 5000K and 5700K with >80 CRI

Electrical

- Offers multiple power levels: 100W, 130W, 150W, 210W, 300W and 450W
- Operating temperature rating of -4°F to 131°F (-20°C to 55°C)
- Input voltage of 120-277V, 277-480V input option available
- Dimming: 0-10V standard

Controls

- Pre-installed sensor socket models available
- Field installable multifunction MW or PIR sensor available (on sensor socket models)
- 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 (on sensor socket models)
- 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

Warranty

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

Project

Catalog

Type

Date



HML1
100W, 130W, 150W
210W, 300W, 450W
LED High-Performance High Bay



NICOR®

HML1

LED High-Performance High Bay

Ordering Information

Example: HML1150U50AS

| Series | Version | Wattage | Input Voltage | CCT | Distribution | Sensor Socket | Emergency | Wiring Options |
|--------|---------|----------------|---------------------------|------------|-----------------------------------|---------------|------------------------|--------------------------------------|
| HML | 1 | 100 (14000 lm) | U (120-277V) | 35 (3500K) | A (general - 90°x90°) | Blank (No) | Blank (No) | Blank (No) |
| | | 130 (18000 lm) | H (277-480V) ¹ | 40 (4000K) | B (wide - 105°x105°) | S (socket) | E08 (8W) ² | C (Cord - 3-wire, 6ft) ⁶ |
| | | 150 (20000 lm) | | 50 (5000K) | C (aisle - 45°x100°) ¹ | | E18 (18W) ³ | C4 (Cord - 4-wire, 6ft) ⁷ |
| | | 210 (29000 lm) | | 57 (5700K) | | | E25 (25W) ⁴ | F (Flex Conduit - 6ft) ⁸ |
| | | 300 (42000 lm) | | | | | E40 (40W) ⁵ | |
| | | 450 (66000 lm) | | | | | | |

Specifications and dimensions subject to change without notice.

1) Only on 150W and higher models

2) 8W is for 100W version only

3) 18W for 100-150W versions only

4) 25W is for 210W version only

5) 40W is for 300-450W versions only

Note: End user is responsible for proper selection of battery pack to meet NFPA requirements

6) C3 Cord is 18/3 wire, 6' long, black. Other lengths available upon request

7) C4 cord is 18/4 wire, 6' long, black, for use with Emergency enabled fixtures. Other lengths available upon request

8) Flexible metal conduit is 6' long, 18/3 wire configuration. Other lengths available upon request

NICOR Lighting Controls (NLC)

Any "S" (sensor socket) model 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.

Motion Sensors

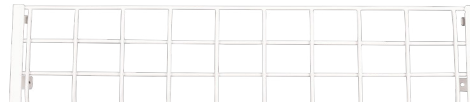
| | |
|------------------------------------|---------------|
| Passive Infrared Motion Sensor | H12VSENSORPIR |
| Microwave Motion Sensor | H12VSENSORMW |
| Remote Control for Sensors | H12VREMOTE |
| NICOR Lighting Controls PIR Sensor | NLCIND3.5 |

Motion sensors for use on socket enabled ("S") fixtures only



Wireguard Accessories

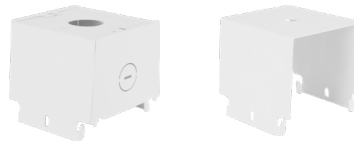
| | |
|-----------------------------|----------|
| Wireguard for HML1 100-150W | HML1WGNS |
| Wireguard for HML1 210-300W | HML1WGND |
| Wireguard for HML1 450W | HML1WGNT |



Mounting Accessory Kits

| | |
|--------------------------------|--------------------|
| Aircraft Cable Kit (10ft) | ACMK110 |
| Pendant Kit for 100-450W | HML1100-150PEND |
| Surface Mount Kit for 100-450W | HML1100-150SURFACE |

Pendant and surface mount kits compatible to all HML models, 100W-450W



Emergency Battery Accessories

| | |
|-----------------------------|---------------|
| 8W Battery Pack (120-347V) | HML1EM08WRVWH |
| 18W Battery Pack (120-347V) | HML1EM18WRVWH |
| 25W Battery Pack (120-347V) | HML1EM25WRVWH |
| 40W Battery Pack (120-347V) | HML1EM40WRVWH |

• For installation in the field by the end user

• 8W is for 100W version only

• 18W for 100-150W versions only

• 25W is for 210W version only

• 40W is for 300-450W versions only

• End user is responsible for proper selection of battery pack to meet NFPA requirements



Plug Accessories

| | |
|-------------------------------|--------|
| 15A 125V Straight Bladed Plug | S15P |
| 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 |
| HML1100U40A | 14200 | 101 | 141 |
| HML1100U50A | 14284 | | 141 |
| HML1130U40A | 18138 | 129 | 141 |
| HML1130U50A | 18228 | | 141 |
| HML1150U40A | 20574 | 147 | 140 |
| HML1150U50A | 20675 | | 141 |
| HML1210U40A | 29258 | 209 | 140 |
| HML1210U50A | 29412 | | 141 |
| HML1300U40A | 42055 | 305 | 137 |
| HML1300U50A | 42266 | | 138 |
| HML1450U40A | 66516 | 459 | 144 |
| HML1450U50A | 66850 | | 145 |

| Wide Distribution | | | |
|-------------------|--------|-------|-------------|
| Model Number | Lumens | Watts | Lumens/Watt |
| HML1100U40B | 14200 | 101 | 141 |
| HML1100U50B | 14284 | | 141 |
| HML1130U40B | 18138 | 129 | 141 |
| HML1130U50B | 18228 | | 141 |
| HML1150U40B | 20574 | 147 | 140 |
| HML1150U50B | 20675 | | 141 |
| HML1210U40B | 29258 | 209 | 140 |
| HML1210U50B | 29412 | | 141 |
| HML1300U40B | 42055 | 305 | 137 |
| HML1300U50B | 42266 | | 138 |
| HML1450U40B | 66516 | 459 | 144 |
| HML1450U50B | 66850 | | 145 |

| Aisle Distribution | | | |
|--------------------|--------|-------|-------------|
| Model Number | Lumens | Watts | Lumens/Watt |
| HML1150U40C | 19134 | 147 | 130 |
| HML1150U50C | 19228 | | 131 |
| HML1210U40C | 27204 | 209 | 130 |
| HML1210U50C | 27338 | | 131 |
| HML1300U40C | 39251 | 305 | 131 |
| HML1300U50C | 39307 | | 131 |
| HML1450U40C | 61860 | 459 | 134 |
| HML1450U50C | 62171 | | 135 |

| Emergency Operation Lumens | | | | |
|----------------------------|------|------|------|------|
| Model Number | 8W | 18W | 25W | 40W |
| HML1100U40A | 1128 | 2538 | X | X |
| HML1100U50A | 1128 | 2538 | X | X |
| HML1130U40A | X | 2538 | X | X |
| HML1130U50A | X | 2538 | X | X |
| HML1150U40A | X | 2520 | X | X |
| HML1150U50A | X | 2538 | X | X |
| HML1210U40A | X | X | 3500 | X |
| HML1210U50A | X | X | 3525 | X |
| HML1300U40A | X | X | X | 5480 |
| HML1300U50A | X | X | X | 5520 |
| HML1450U40A | X | X | X | 5760 |
| HML1450U50A | X | X | X | 5800 |

| Emergency Operation Lumens | | | | |
|----------------------------|------|------|------|------|
| Model Number | 8W | 18W | 25W | 40W |
| HML1100U40B | 1128 | 2538 | X | X |
| HML1100U50B | 1128 | 2538 | X | X |
| HML1130U40B | X | 2538 | X | X |
| HML1130U50B | X | 2538 | X | X |
| HML1150U40B | X | 2520 | X | X |
| HML1150U50B | X | 2538 | X | X |
| HML1210U40B | X | X | 3500 | X |
| HML1210U50B | X | X | 3525 | X |
| HML1300U40B | X | X | X | 5480 |
| HML1300U50B | X | X | X | 5520 |
| HML1450U40B | X | X | X | 5760 |
| HML1450U50B | X | X | X | 5800 |

| Emergency Operation Lumens | | | |
|----------------------------|------|------|------|
| Model Number | 18W | 25W | 40W |
| HML1150U40C | 2340 | X | X |
| HML1150U50C | 2358 | X | X |
| HML1210U40C | X | 3250 | X |
| HML1210U50C | X | 3275 | X |
| HML1300U40C | X | X | 5240 |
| HML1300U50C | X | X | 5240 |
| HML1450U40C | X | X | 5360 |
| HML1450U50C | X | X | 5400 |

Fixture tested per LM-79-08. Photometric data is of the performance of a representative fixture. Results may vary in the field.

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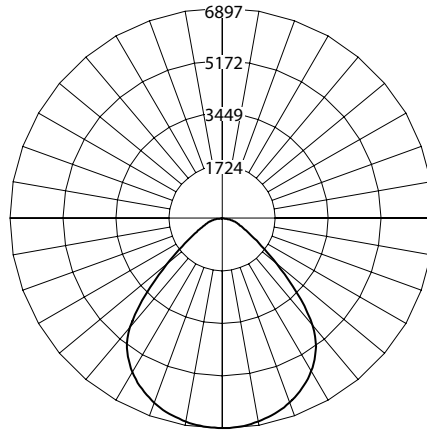
Photometric Data

100W 5000K

| | |
|-----------------------------|---------|
| Input Voltage (VAC) | 120-277 |
| System Level Power (W) | 101.0 |
| Delivered Lumens (Lm) | 14284 |
| System Efficacy (Lm/W) | 141.4 |
| Correlated Color Temp (K) | 3553 |
| Color Rendering Index (CRI) | 86 |
| Beam Angle (0) | 89.1 |
| Beam Angle (90) | 90.6 |
| Spacing Criteria (0) | 1.26 |
| Spacing Criteria (90) | 1.26 |

CCT Data Multiplier

| | |
|-------|-------|
| 4000K | 0.995 |
|-------|-------|



Cone of Light Tabulation

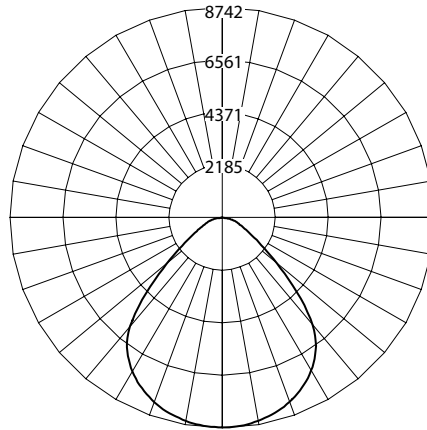
| Mounted height (Feet) | Footcandles Beam Center | Diameter (Feet) |
|-----------------------|-------------------------|-----------------|
| 15 | 30.0 | 29.5 |
| 17 | 23.4 | 33.5 |
| 20 | 16.9 | 39.4 |
| 23 | 12.8 | 45.3 |

130W 5000K

| | |
|-----------------------------|---------|
| Input Voltage (VAC) | 120-277 |
| System Level Power (W) | 129 |
| Delivered Lumens (Lm) | 18228 |
| System Efficacy (Lm/W) | 141.3 |
| Correlated Color Temp (K) | 3560 |
| Color Rendering Index (CRI) | 86 |
| Beam Angle (0) | 89.0 |
| Beam Angle (90) | 90.6 |
| Spacing Criteria (0) | 1.26 |
| Spacing Criteria (90) | 1.26 |

CCT Data Multiplier

| | |
|-------|-------|
| 4000K | 0.995 |
|-------|-------|



Cone of Light Tabulation

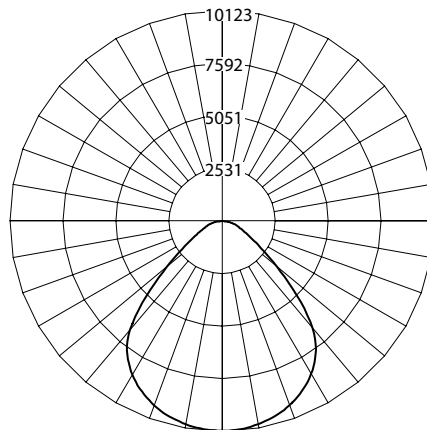
| Mounted height (Feet) | Footcandles Beam Center | Diameter (Feet) |
|-----------------------|-------------------------|-----------------|
| 15 | 38.4 | 29.5 |
| 17 | 30.0 | 33.5 |
| 20 | 21.7 | 39.4 |
| 23 | 16.4 | 45.3 |
| 25 | 13.8 | 49.2 |

150W 5000K

| | | |
|-----------------------------|---------|---------|
| Input Voltage (VAC) | 120-277 | 277-480 |
| System Level Power (W) | 147 | 147 |
| Delivered Lumens (Lm) | 20675 | 20664 |
| System Efficacy (Lm/W) | 140.6 | 140.6 |
| Correlated Color Temp (K) | 3532 | |
| Color Rendering Index (CRI) | 86 | |
| Beam Angle (0) | 88.9 | |
| Beam Angle (90) | 90.6 | |
| Spacing Criteria (0) | 1.26 | |
| Spacing Criteria (90) | 1.26 | |

CCT Data Multiplier

| | |
|-------|-------|
| 4000K | 0.995 |
|-------|-------|



Cone of Light Tabulation

| Mounted height (Feet) | Footcandles Beam Center | Diameter (Feet) |
|-----------------------|-------------------------|-----------------|
| 15 | 43.7 | 29.5 |
| 17 | 34.1 | 33.5 |
| 20 | 24.6 | 39.4 |
| 23 | 18.6 | 45.3 |
| 25 | 15.7 | 49.2 |
| 28 | 12.5 | 55.1 |

Fixture tested per LM-79-08. Photometric data is of the performance of a representative fixture. Results may vary in the field.

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LED High-Performance High Bay

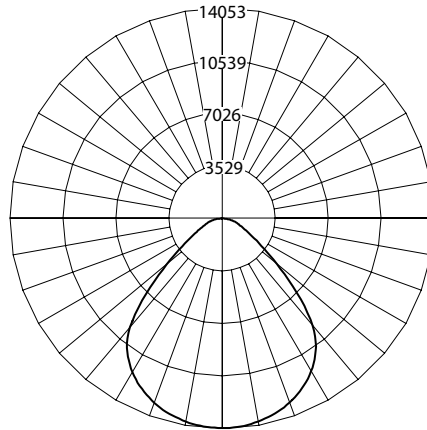
Photometric Data

210W 5000K

| | | |
|-----------------------------|---------|---------|
| Input Voltage (VAC) | 120-277 | 277-480 |
| System Level Power (W) | 209 | |
| Delivered Lumens (Lm) | 29412 | 29396 |
| System Efficacy (Lm/W) | 141 | 141 |
| Correlated Color Temp (K) | 5000 | |
| Color Rendering Index (CRI) | 85 | |
| Beam Angle (0) | 88.7 | |
| Beam Angle (90) | 90.5 | |
| Spacing Criteria (0) | 1.28 | |
| Spacing Criteria (90) | 1.26 | |

CCT Data Multiplier

| | |
|-------|-------|
| 4000K | 0.995 |
|-------|-------|



Cone of Light Tabulation

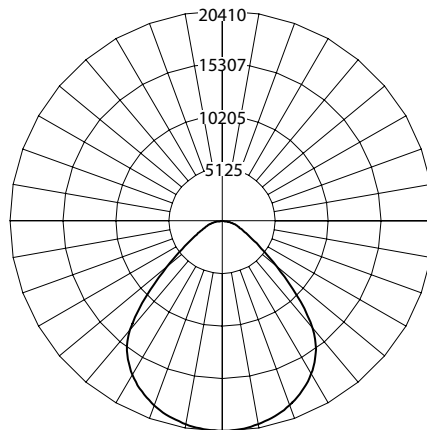
| Mounted height (Feet) | Footcandles Beam Center | Diameter (Feet) |
|-----------------------|-------------------------|-----------------|
| 23 | 41.4 | 45.3 |
| 25 | 35.0 | 49.2 |
| 28 | 27.8 | 55.1 |
| 30 | 24.2 | 59.1 |
| 32 | 21.1 | 63.0 |

300W 5000K

| | | |
|-----------------------------|---------|---------|
| Input Voltage (VAC) | 120-277 | 277-480 |
| System Level Power (W) | 305 | |
| Delivered Lumens (Lm) | 42266 | 42243 |
| System Efficacy (Lm/W) | 139 | 139 |
| Correlated Color Temp (K) | 5000 | |
| Color Rendering Index (CRI) | 86 | |
| Beam Angle (0) | 88.9 | |
| Beam Angle (90) | 90.6 | |
| Spacing Criteria (0) | 1.28 | |
| Spacing Criteria (90) | 1.26 | |

CCT Data Multiplier

| | |
|-------|-------|
| 4000K | 0.995 |
|-------|-------|



Cone of Light Tabulation

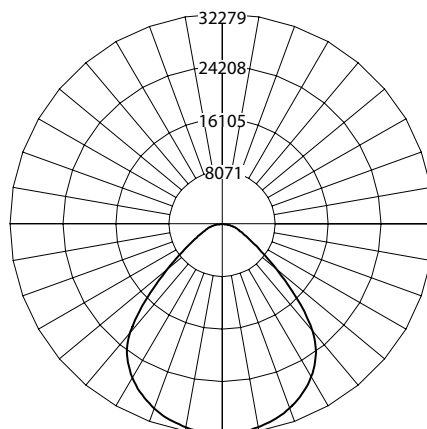
| Mounted height (Feet) | Footcandles Beam Center | Diameter (Feet) |
|-----------------------|-------------------------|-----------------|
| 23 | 60.1 | 45.3 |
| 25 | 50.8 | 49.2 |
| 28 | 40.4 | 55.1 |
| 30 | 35.2 | 59.1 |
| 32 | 30.7 | 63.0 |

450W 5000K

| | | |
|-----------------------------|---------|---------|
| Input Voltage (VAC) | 120-277 | 277-480 |
| System Level Power (W) | 459 | |
| Delivered Lumens (Lm) | 66850 | 66783 |
| System Efficacy (Lm/W) | 145 | 145 |
| Correlated Color Temp (K) | 5000 | |
| Color Rendering Index (CRI) | 86 | |
| Beam Angle (0) | 88.9 | |
| Beam Angle (90) | 90.6 | |
| Spacing Criteria (0) | 1.28 | |
| Spacing Criteria (90) | 1.26 | |

CCT Data Multiplier

| | |
|-------|-------|
| 4000K | 0.995 |
|-------|-------|



Cone of Light Tabulation

| Mounted height (Feet) | Footcandles Beam Center | Diameter (Feet) |
|-----------------------|-------------------------|-----------------|
| 23 | 95.1 | 45.3 |
| 25 | 80.3 | 49.2 |
| 28 | 63.9 | 55.1 |
| 30 | 55.7 | 59.1 |
| 32 | 48.6 | 63.0 |

Fixture tested per LM-79-08. Photometric data is of the performance of a representative fixture. Results may vary in the field.

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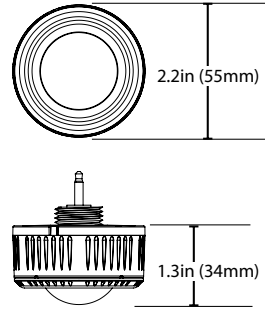
LED High-Performance High Bay

Sensors and Dimmers

H12V PIR Low Voltage Motion Sensor

See the individual spec sheet for further information

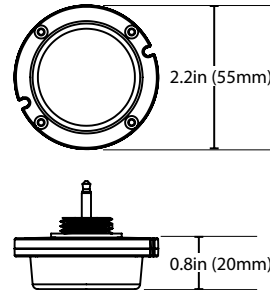
- Field installed 12VDC sensor
- Infrared motion detector with built in daylight sensor
- Remote control programmable
- Highly configurable:
 - Detection area
 - Stand-by period
 - Hold time
 - Stand-by dimming
 - Dimming level
 - Daylight harvesting threshold
- Max mounting height: 40ft (12m)
- IP65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



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
 - Stand-by period
 - Hold time
 - Stand-by dimming
 - Dimming level
 - Daylight harvesting threshold
- Max mounting height: 40ft (12m)
- IP65 Rated



Remote Control for H12V Sensors

See the individual spec sheet for further information

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



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
 - Full Range Dimming (0-10V)
 - Daylight Harvesting
 - Scene Control
 - High-End Trim
 - 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.

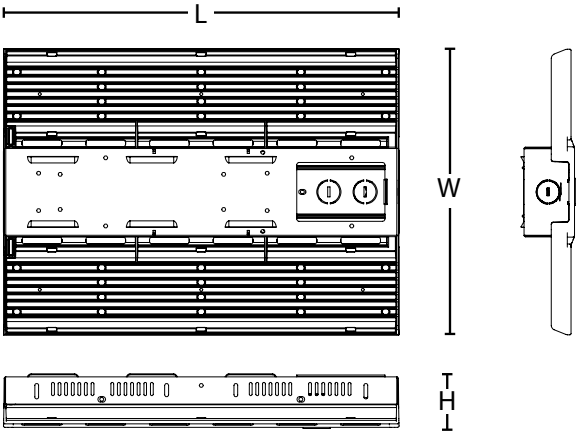
12VDC Output

On "S" (sensor socket) models, 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.

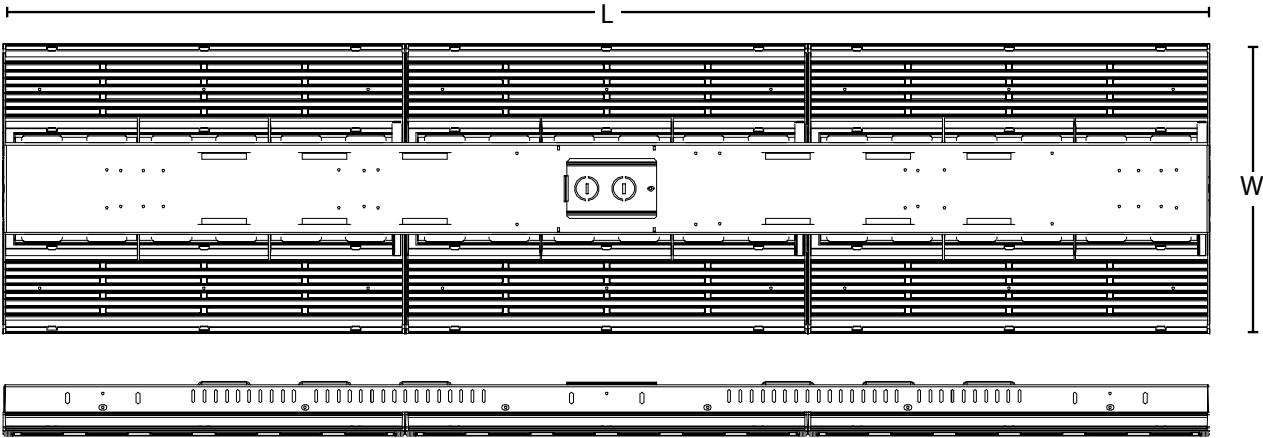
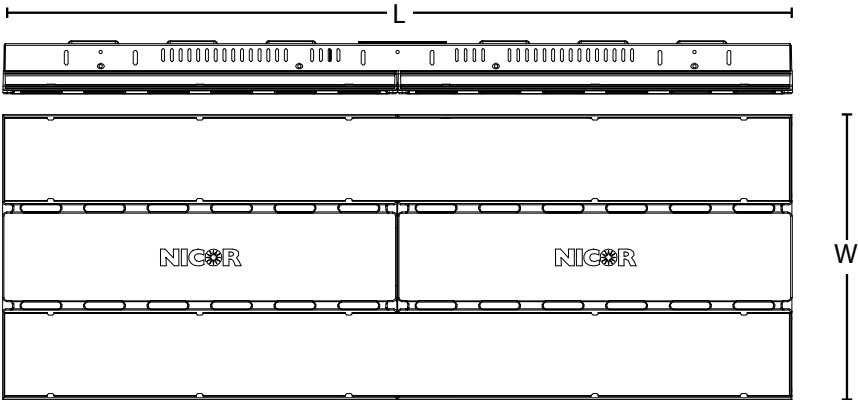
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LED High-Performance High Bay

Dimensions



| Product Measurements | | | |
|----------------------|------------------|-----------------|-------------------|
| | 100W-150W | 210W, 300W | 450W |
| Length: | 14.1 in. (360mm) | 28.3 in (720mm) | 42.5 in. (1080mm) |
| Width: | 10.1 in. (260mm) | | |
| Height: | 1.9 in. (49mm) | | |



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

