NORTHERN LIGHTING

170 lm/w

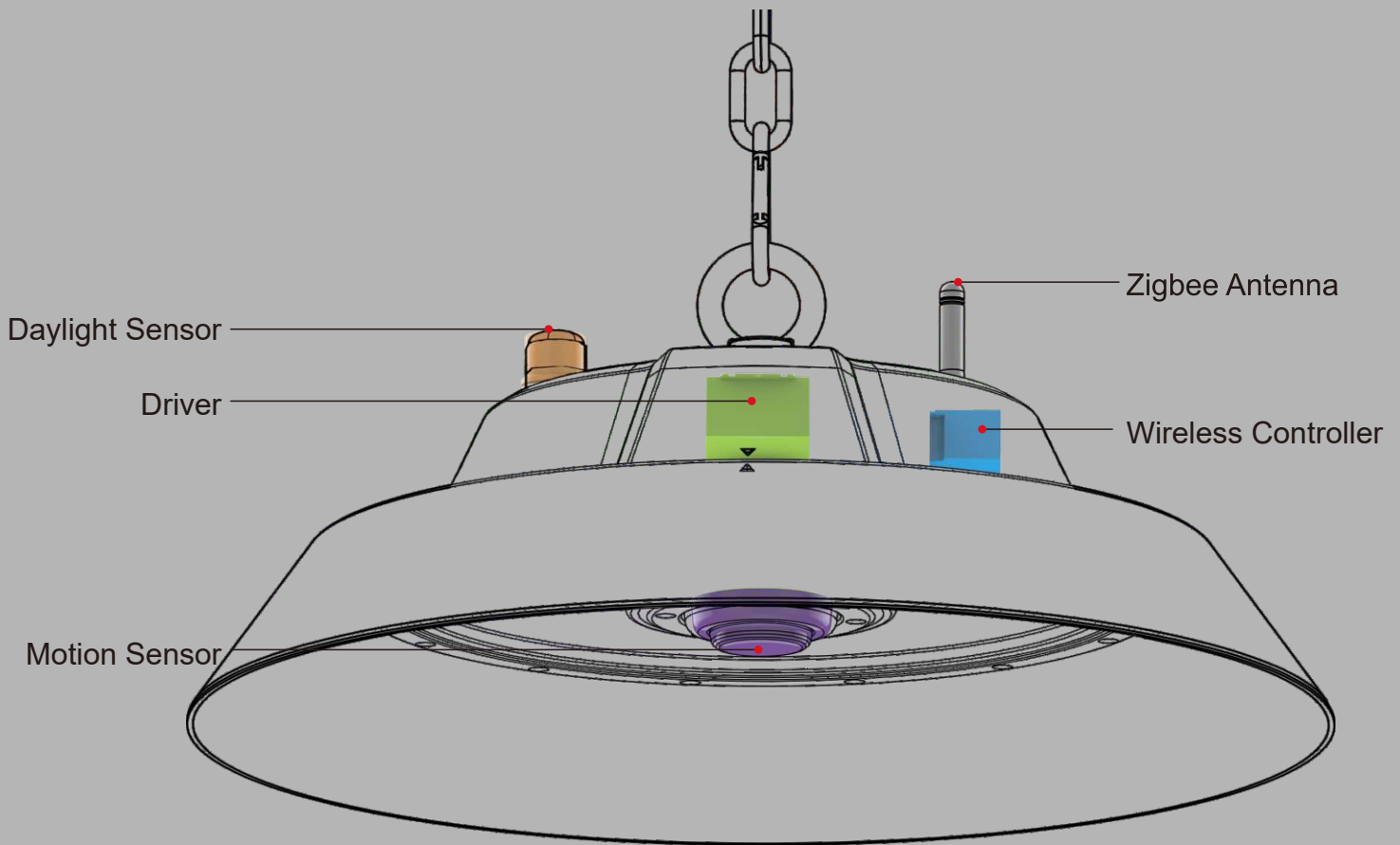## All-In-One Smart LED High Bay
Premium Quality IP67 NSF DLC

WiFi — Plug & Play

All-In-One Intelligent Design

Built-in Zigbee Controller, DALI Driver, Daylight
Sensor, Motion Sensor,

Daylight Sensor

Driver

Zigbee Antenna

Wireless Controller

Motion Sensor
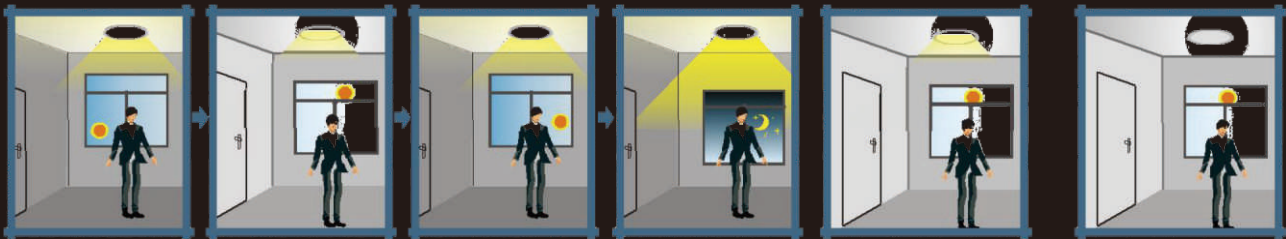
Compared with the traditional UFO high bay

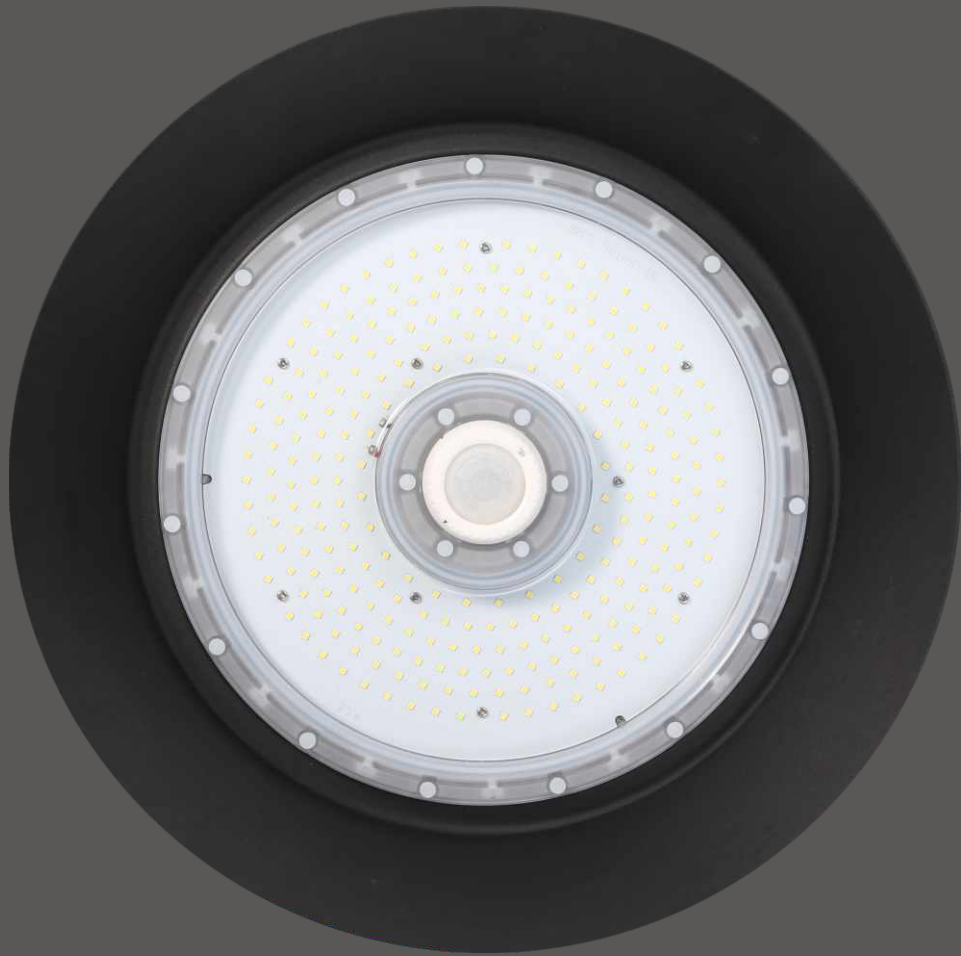| Item	Traditional UFO + External Controller	NL All-In-One Design
Installation	Many require re-assemble and re-wiring.	Plug and play just as normal lights.
Reliability	Uncontrollable	Passed QC as a whole system. Built-in Controllers and sensors are all protected.
Safety	Wiring messy and exposed, hidden security risks	
Horizontal Adjustment	Usually hanging askew	Easily balanced
Ingress and Impact Protection	The external accessories are not guaranteed	IP67+IK08, Sleek construction prevents the accumulation of dust and water.

Integrated Daylight Sensor

The lamp lights on 100%   illumination or dims to maintain   the preset illumination level against ambient light.

The lamp dims to minimum light level but never turns off even with sufficient ambient light
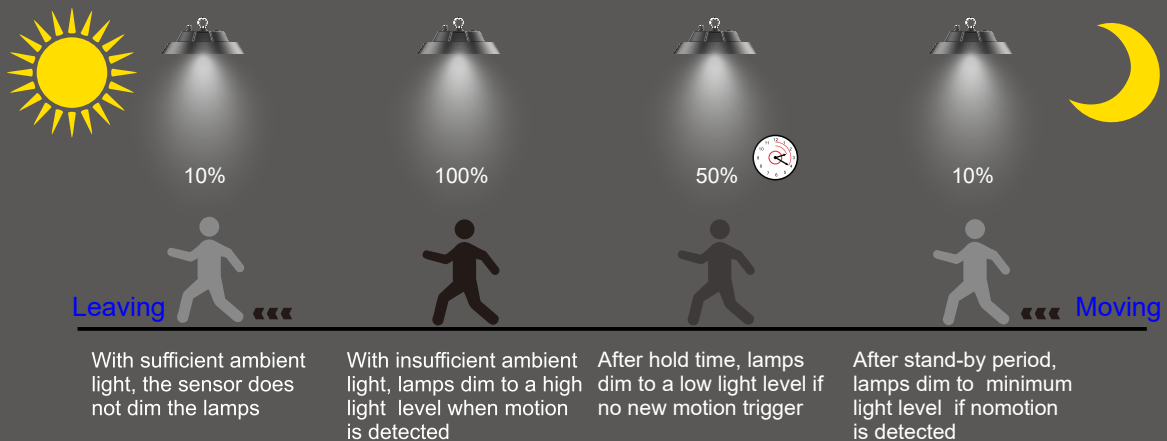
Users can switch off the light manually

Daylight Harvesting & Code Compliance — According to IECC 2015 Code Provision C405.2.3.1/2, daylight-responsive controls should be installed within each space with sidelight and toplight daylight zones totaling more than 150W.

Integrated Motion Sensor

● Mounting height up to 40ft.

● 360°coverage pattern

● Dimming Level 10%, 25% or 50%

● Photocell for ambient light detection

● Cluster control,trigger one sensor to make the group of lamps to dim simultaneously

● **Compatible with 347V/480V**

| 10% | 100% | 50% | 10% |

Leaving ‹‹‹   ››› Moving

With sufficient ambient light, the sensor does not dim the lamps

With insufficient ambient light, lamps dim to a high light level when motion is detected

After hold time, lamps dim to a low light level if no new motion trigger

After stand-by period, lamps dim to minimum light level if nomotion is detected

Occupancy Sensors & Code Compliance — According to IECC 2015 Code Provision C405.2.1.1.1,
office and warehouse fixtures must automatically turn off within 30 minutes of all occupants leaving the space

NorthernLighting.ca   + 1 800 8941 LED (533)

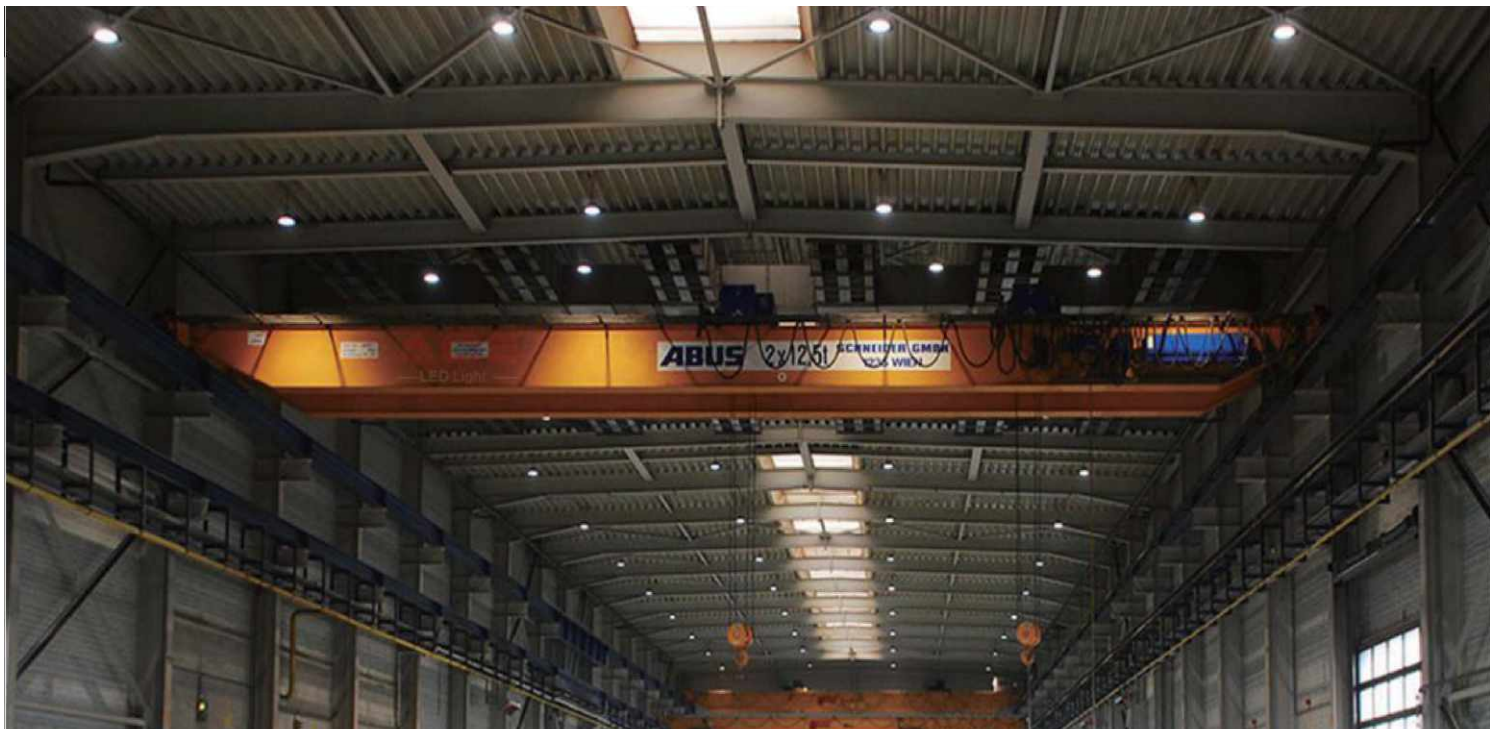# UL cUL DLC Premium certificate, Compatible Sensors

IP67 Waterproof and Corrosion-Resistant

Ideal lighting for food-processing or any applications that require frequent cleaning with high-pressure hot water and or chemicals

Smooth Body
without screws exposed

Sleek construction allows for easy clean-up and prevents the accumulation of dust, all openings are sealed. Bacteria and mold have no crevices or recesses to thrive in

Model Number		NLHB100N	NLHB150N	NLHB190N
Input Wattage		100W	150W	190W
Smart+	Delivered Lumens (+/- 5%)	17000lm	25000lm	32000lm
	Efficiency (+/- 5%)	**170lm/W**		
	MH Equivalent Wattage	400W-500W	700W-800W	1000W-1200W
Input Voltage		100-240VAC / 100-277VAC / **277-480VAC** 50-60HZ		
CRI		80+		
CCT		5000K (3000K, 4000K available)		
Beam Angle		120° (60° and 90° optional)		
IP Rating		IP67		
Warranty		5 Years		
Certifications		UL,cUL,DLC Premium,NSF, SAA,CE,RoHS		
Light body color		Silver, standard(black, white available)		
Control Options	ZG= Zigbee Control	DA=DALI Control	DS=Daylight Sensor	MS=Motion Sensor
	WF=WiFi Control	PL=PLC Control	BL=Bluetooth Control	DB=1-10V Dimming

Northern Lighting Smart LED Highbays are especially designed for the food processing industry. Patented anti-glare design minimizea glare as well as optimizes the lighting performance. Highly efficient upto 170 Lm/W output. Durable, light weight and easy to clean aluminum housing, fire proof PC lens. Smooth body with no glass and no exposed screws.

Ideal Economical IoT Lighting Solution

APP, Network control

Lights in multiple locations can be controlled from wireless devices such as mobile phones (IOS/Android system).

Remote control

Wireless Touch Switch control

Auto Scheduling
Typically Saves: 10-40%

Schedule periods of high or low light output control plan. Gateway can adjust the switch and brightness of every lamp automatically

Area control
Typically Saves: 5-15%

Programming the output of luminaires to the level that provides just the right amount of light for different space, task or area.

Daylight Harvesting
Typically Saves: 15-45%

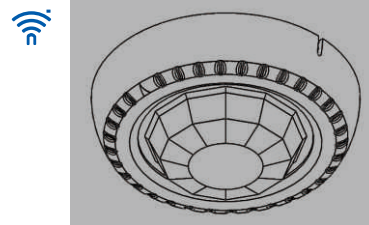The lamp lights on 100% or dims to maintain the preset illumination level against ambient light

Occupancy Sensing
Typically Saves: 15-55%

Turn the lights to a high setting when occupants enter the area, but dim when no one is around.

Dimming

0-100% brightness adjustment from your smart phone or tablet with the mobile app

Cluster control
Typically Saves: 5-15%

In many lighting places, several sensors are connected to a group of lamps. People need functions that trigger one of sensors to make the group of lamps to switch on / off or dim simultaneously. This is called 'cluster control'