



NOX HIGHBAY

DESIGNED FOR ELECTRICIANS



Now with built in 1-10V dimming lead



Quick fit Microwave Sensor



Enhanced Durability



Rapid Heat Dissipation



NOX HIGHBAY



Product information

The legend of the NOX range has expanded into our new Highbays with enhanced durability & rapid heat dissipation. The power selectable feature (50-150W | 100-230W | 150-300W) & optional quick fit microwave sensor ensures a quick and easy install every time.



OUR FULL RANGE



ML-NOX-HB50-150-A



ML-NOX-HB100-230-A



ML-NOX-HB150-300-A

TECHNICAL INFORMATION

	ML-NOX-HB50-150-A	ML-NOX-HB100-230-A	ML-NOX-HB150-300-A
Total Power	MAX 150W* (Selectable 50W / 80W / 100W / 150W)	MAX 230W* (Selectable 100W / 150W / 200W / 230W)	MAX 300W* (Selectable 150W / 200W / 240W / 300W)
Lumen Output	up to 21,000lm	up to 33,145lm	up to 43,564lm
Colour Temp	5000K		
IP Rating	IP65		
Impact Rating	IK08		
Efficacy	133 - 167lm/W	144 - 166lm/w	145 - 154lm/W
CRI	80+		
Beam Angle	90°		
Temp Range	-40°C to +45°C		
Dimmable	Yes (1-10V) Built in dimmable lead		
Power Supply	100-277V AC Towin 1-10V Dimmable Driver		
Average Life	50,000 hrs**		
Input / Inrush Current	0.7A / Up to 7 times Input Voltage	1.0A / Up to 7 times Input Voltage	1.3A / Up to 7 times Input Voltage
Power Factor	>0.9		
Dimensions	Ø 328mm x H 201mm	Ø 371mm x H 206mm	Ø 412mm x H 228mm
Weight	3.3kg	4.6kg	5.4kg
Warranty	7 years		
Construction	ADC12 Aluminum heat sink +PC lens, outdoor powder coating finish		
Kit Includes	1 x LED highbay, 1x Australian plug & 1m flex, 1x User Manual		
Accessories sold separately	Microwave sensor: ML-SENSOR and remote: ML-REMOTE (for microwave sensor***) - Suitable for all models Bracket Mount: ML-HB-BR, Refractor: ML-NOX-HB-REF, Drop lens: ML-NOX-HB-REF-D-A, Cone lens: ML-NOX-HB-REF-D-Y		

*Total power consumed including driver

** Average life is calculated on expected average lifespan

*** Microwave sensor available as additional accessory

NOX 50-150W HIGHBAY

The legend of the NOX range has expanded into our new Highbays with enhanced durability & rapid heat dissipation. The power selectable feature 50-150W & optional quick fit microwave sensor ensures a quick and easy install every time.

APPLICATIONS

Commercial or Industrial applications:

- General area lighting (up to 6m high)
- Warehouses/storage facilities
- Recreational facilities



POWER
SELECTABLE



IP65
RATED



IK08
RATED



DIMMABLE
READY



BEAM
ANGLE



PRODUCT
WARRANTY



3 YEAR
OSW



FEATURES

- Aluminium die-cast AkzoNobel performance coated body
- Fully gasketed lens and driver box to protect against the elements
- Power selectable - max 150W (50W/80W/100W/150W)
- Average life of 50,000 hours
- 5000K colour output
- 1-10V dimming capability
- 90° beam angle
- IP65 and IK08 rated
- Drop and cone lens available with refractor and adjustable yoke bracket accessories available

COMPLIANCE

SAA, IP65, IK08, C-TICK

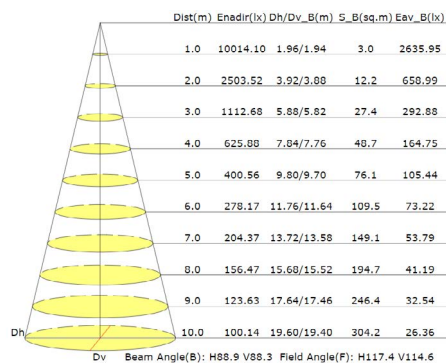
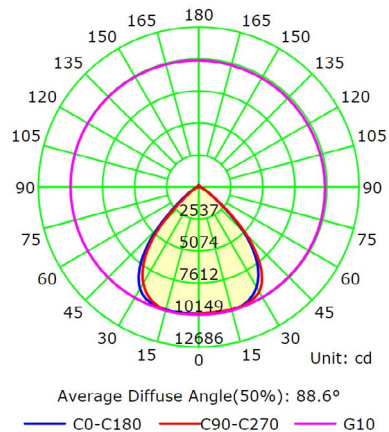
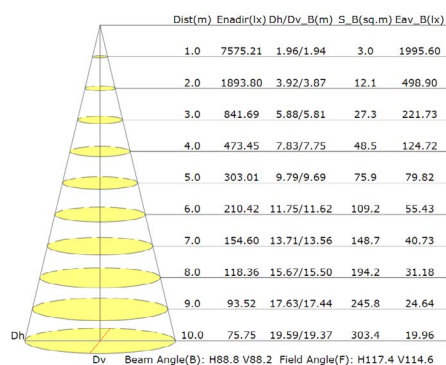
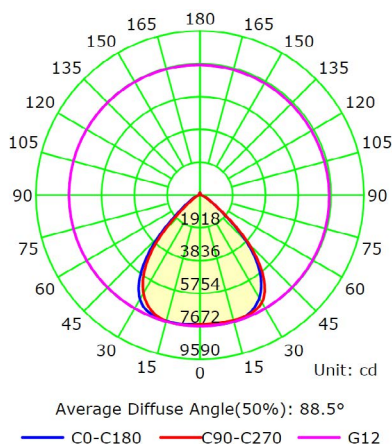
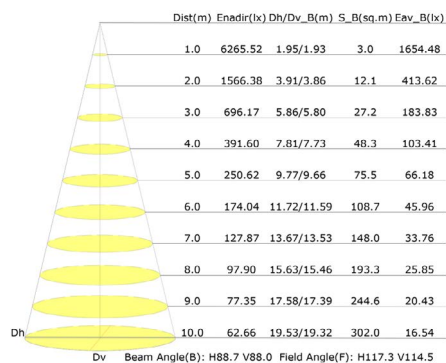
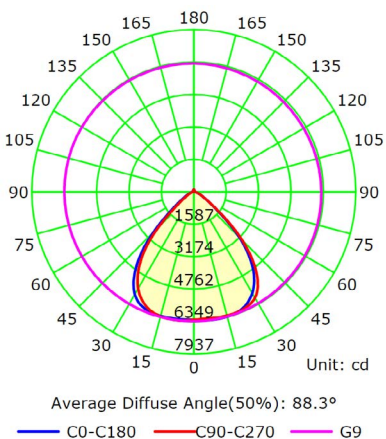
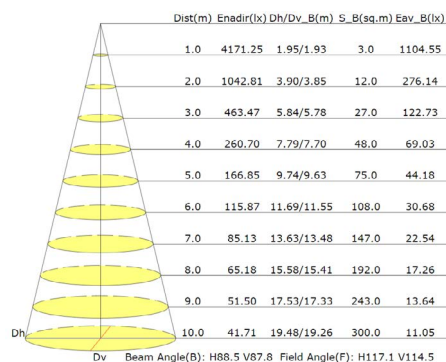
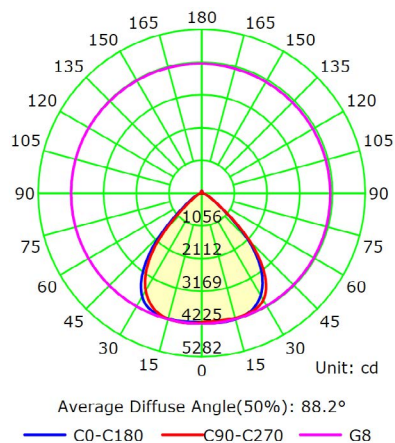
TECHNICAL INFORMATION

	ML-NOX-HB50-150-A
Total Power	MAX 150W* (Selectable 50W / 80W / 100W / 150W)
Lumen Output	up to 21,000lm
Colour Temp	5000K
IP Rating	IP65
Efficacy	133 - 167lm/W
CRI	80+
Beam Angle	90°
Temp Range	-40°C to +45°C
Dimmable	Yes (1-10V) Built in dimmable lead
Power Supply	120-277V AC Towin dimmable driver
Average Life	50,000 hrs**
Inrush Current	Up to 7 times Input Voltage
Current Draw	0.7A @240V
Power Factor	>0.9
IK Rating	IK08
LM Rating	LM80
Dimensions	Ø 328mm x H 201mm
Weight	3.3kg
Warranty	7 Years
Construction	ADC12 Aluminum heat sink +PC lens, outdoor powder coating finish

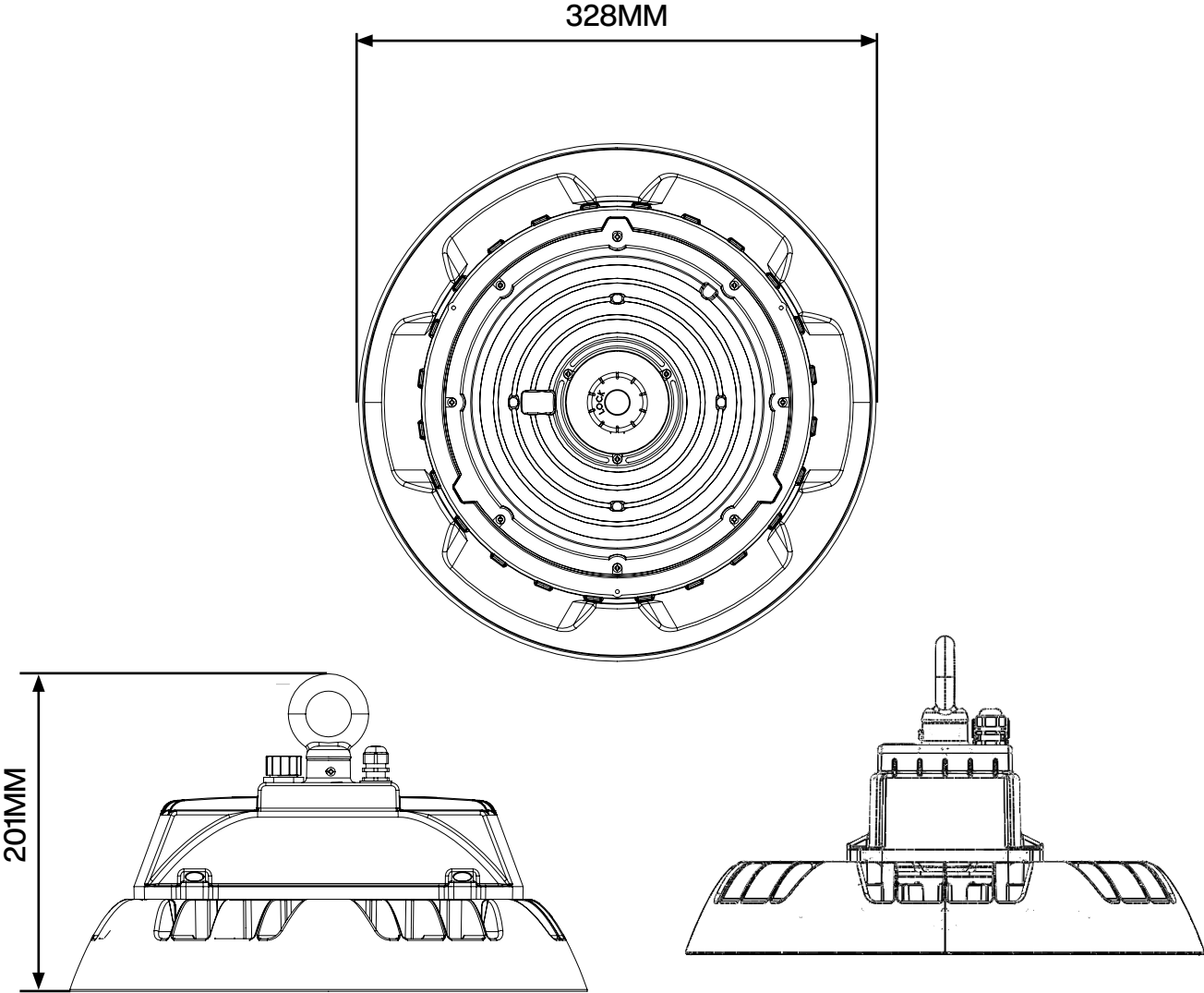
*Total power consumed including driver

** Average life is calculated on expected average lifespan

ML-NOX-HB50-150-A

150W**100W****80W****50W**

PRODUCT DIMENSIONS



POWER OUTPUT CHART

ML-NOX-HB50-150-A			
POWER SETTING (W)	LUMEN OUTPUT (lm)	EFFICACY (lm/W)	CURRENT (A)
50	8300	166	0.21A
80	12,530	156	0.33A
100	15,180	152	0.42A
150	20,085	134	0.63A

NOX 100-230W HIGHBAY

The legend of the NOX range has expanded into our new High-bays with enhanced durability & rapid heat dissipation. The power selectable feature 100-230W & optional quick fit microwave sensor ensures a quick and easy install every time.

APPLICATIONS

Commercial or Industrial applications:

- General area lighting (up to 6-13m high)
- Warehouses/storage facilities
- Recreational facilities



FEATURES

- Aluminium die-cast AkzoNobel performance coated body
- Fully gasketed lens and driver to protect against the elements
- Power selectable - max 230W (100W/150W/200W/230W)
- Average life of 50,000 hours
- 5000K colour output
- 1-10V dimming capability
- 90° beam angle
- IP65 and IK08 rated
- Drop and cone lens available with refractor and adjustable yoke bracket accessories available

COMPLIANCE

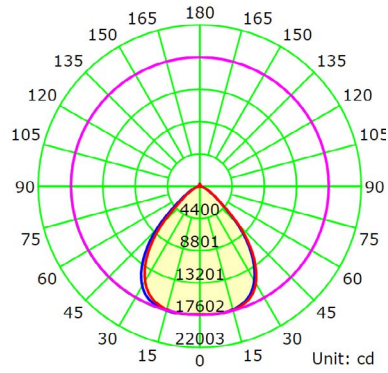
SAA, IP65, IK08, C-TICK

TECHNICAL INFORMATION

	ML-NOX-HB100-230-A
Total Power	MAX 230W* (Selectable 100W / 150W / 200W / 230W)
Lumen Output	up to 33,145lm
Colour Temp	5000K
IP Rating	IP65
Efficacy	144 - 166lm/w
CRI	80+
Beam Angle	90°
Temp Range	-40°C to +45°C
Dimmable	Yes 1-10V
Power Supply	100-277V AC Twin 1-10V Dimmable Driver
Average Life	50,000 hrs**
Inrush Current	Up to 7 times Input Voltage
Current Draw	1.0A @240V
Power Factor	>0.9
IK Rating	IK08
LM Rating	LM80
Dimensions	Ø 371mm x H 206mm
Weight	4.6kg
Warranty	7 Years
Construction:	ADC12 Aluminum heat sink +PC lens, outdoor powder coating finish

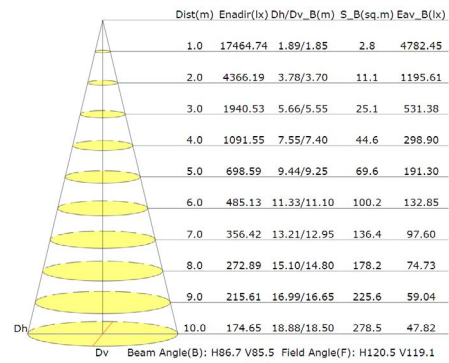
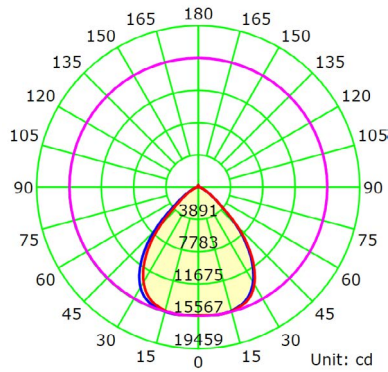
*Total power consumed including driver
 ** Average life is calculated on expected average lifespan

ML-NOX-HB100-230-A

230W

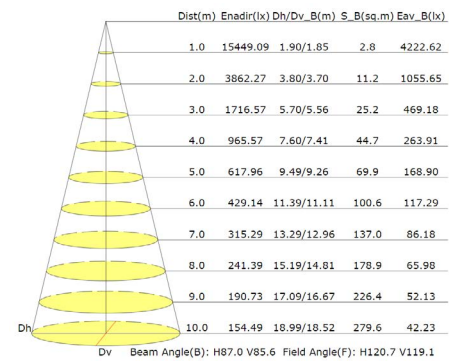
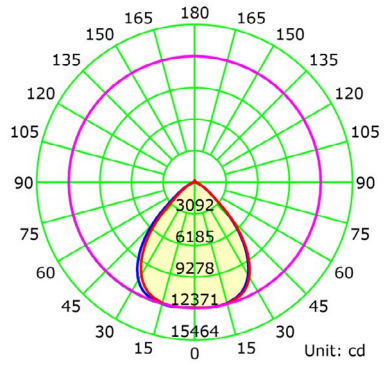
Average Diffuse Angle(50%): 86.1°

— C0-C180 — C90-C270 — G11

**200W**

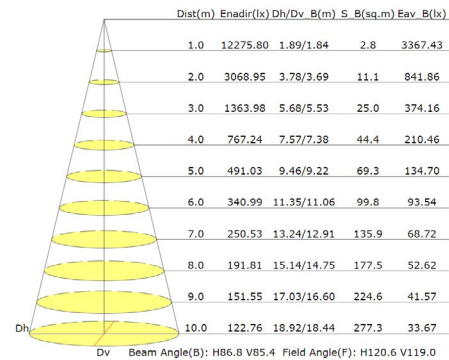
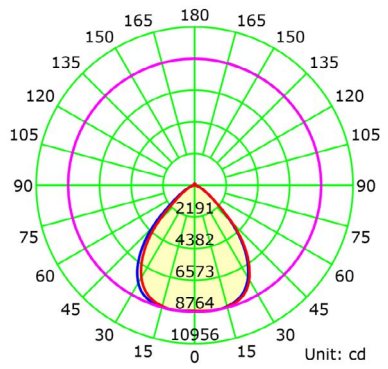
Average Diffuse Angle(50%): 86.3°

— C0-C180 — C90-C270 — G11

**150W**

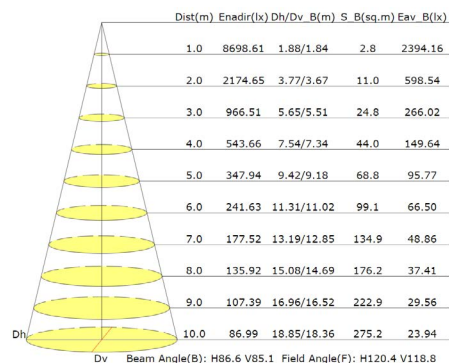
Average Diffuse Angle(50%): 86.1°

— C0-C180 — C90-C270 — G11

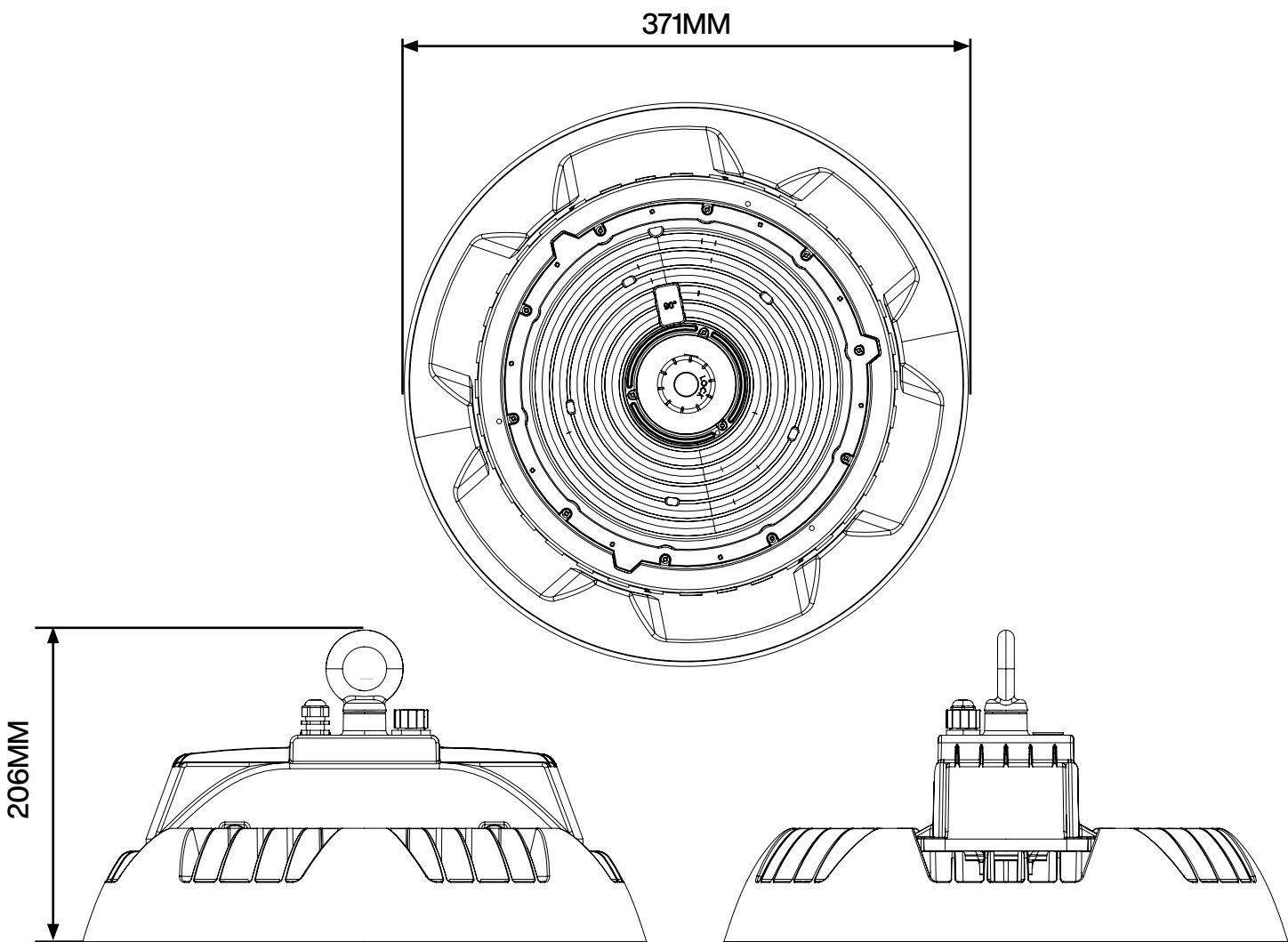
**100W**

Average Diffuse Angle(50%): 85.9°

— C0-C180 — C90-C270 — G9



PRODUCT DIMENSIONS



POWER OUTPUT CHART

ML-NOXHB100-230-A			
POWER SETTING	LUMEN OUTPUT (lm)	EFFICACY (lm/W)	CURRENT (A)
100	16,409lm	166lm/W	0.416A
150	23,251lm	155lm/W	0.613A
200	29,380lm	147lm/W	0.833A
230	33,145lm	144lm/W	0.958A

NOX 150-300W HIGHBAY

The legend of the NOX range has expanded into our new High-bays with enhanced durability & rapid heat dissipation. The power selectable feature 150-300W & optional quick fit microwave sensor ensures a quick and easy install every time.



APPLICATIONS

Commercial or Industrial applications:

- General area lighting (up to 6-13m high)
- Warehouses/storage facilities
- Recreational facilities



POWER
SELECTABLE



IP65
RATED



IK08
RATED



DIMMABLE
READY



BEAM
ANGLE



PRODUCT
WARRANTY



3 YEAR
OSW

FEATURES

- Aluminium die-cast AkzoNobel performance coated body
- Fully gasketed lens and driver box to protect against the elements
- Power selectable - Max 300W (150W/200W/240W/300W)
- Average life of 50,000 hours
- 5000K colour output
- 1-10V dimming capability
- 90° beam angle
- IP65 and IK08 rated
- Drop and cone lens available with refractor and adjustable yoke bracket accessories available

COMPLIANCE

SAA, IP65, IK08, C-TICK

TECHNICAL INFORMATION

	ML-NOX-HB150-300-A
Total Power	MAX 300W* (Selectable 150W / 200W / 240W / 300W)
Lumen Output	up to 43,564lm
Colour Temp	5000K
IP Rating	IP65
Efficacy	145 - 154lm/W
CRI	80+
Frequency	50/60Hz
Beam Angle	90°
Temp Range	-40°C to +45°C
Dimmable	Yes (1-10V) Built in dimmable lead
Power Supply	100-277V AC Twin 1-10V Dimmable Driver
Average Life	50,000 hrs**
Inrush Current	Up to 7 times Input Voltage
Current Draw	1.3A
Power Factor	>0.9
IK Rating	IK08
LM Rating	LM80
Dimensions	Ø 412mm x H 228mm
Weight	5.4kg
Warranty	7 Years
Construction	ADC12 Aluminum heat sink +PC lens, outdoor powder coating finish

*Total power consumed including driver

** Average life is calculated on expected average lifespan

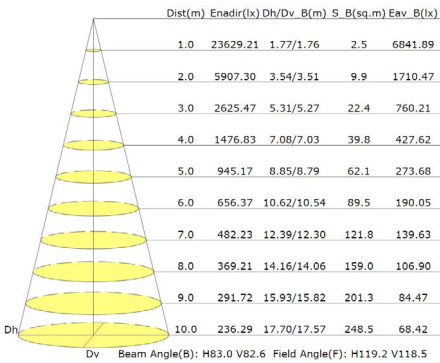
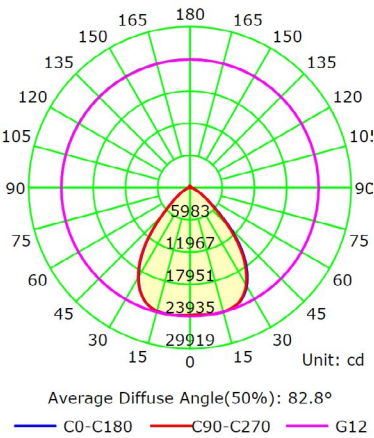
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Data subject to change visit our website for up to date information.

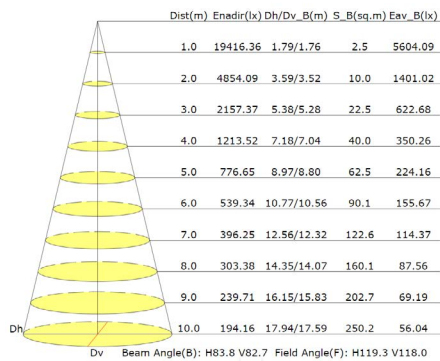
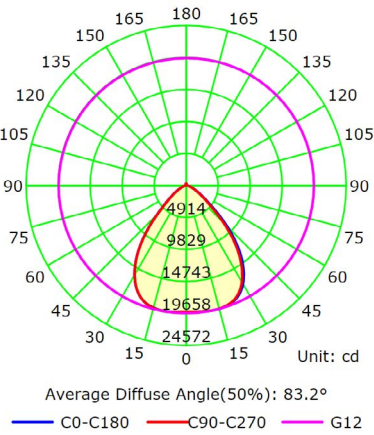
For further information about our Warranties please go to: melec.com.au/legal/warranties

ML-NOX-HB150-300-A

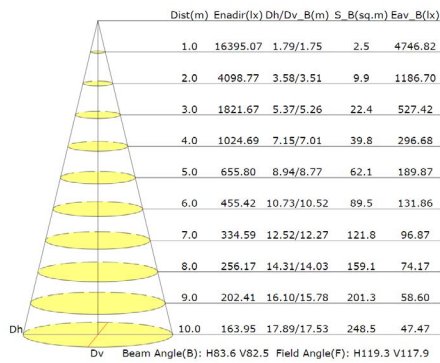
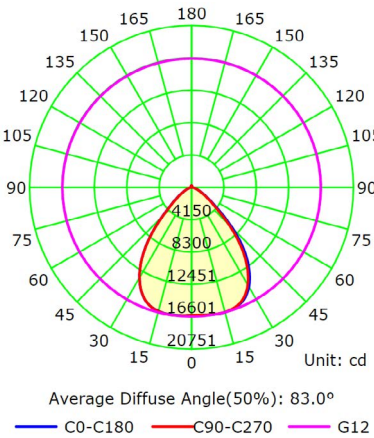
300W



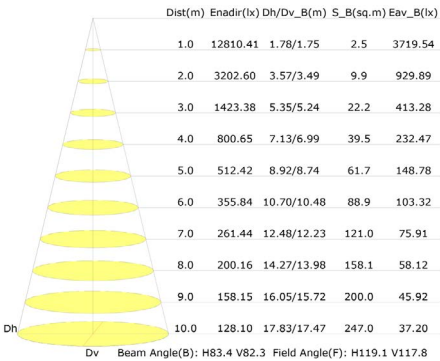
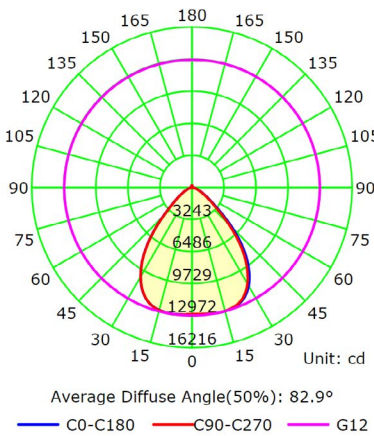
240W



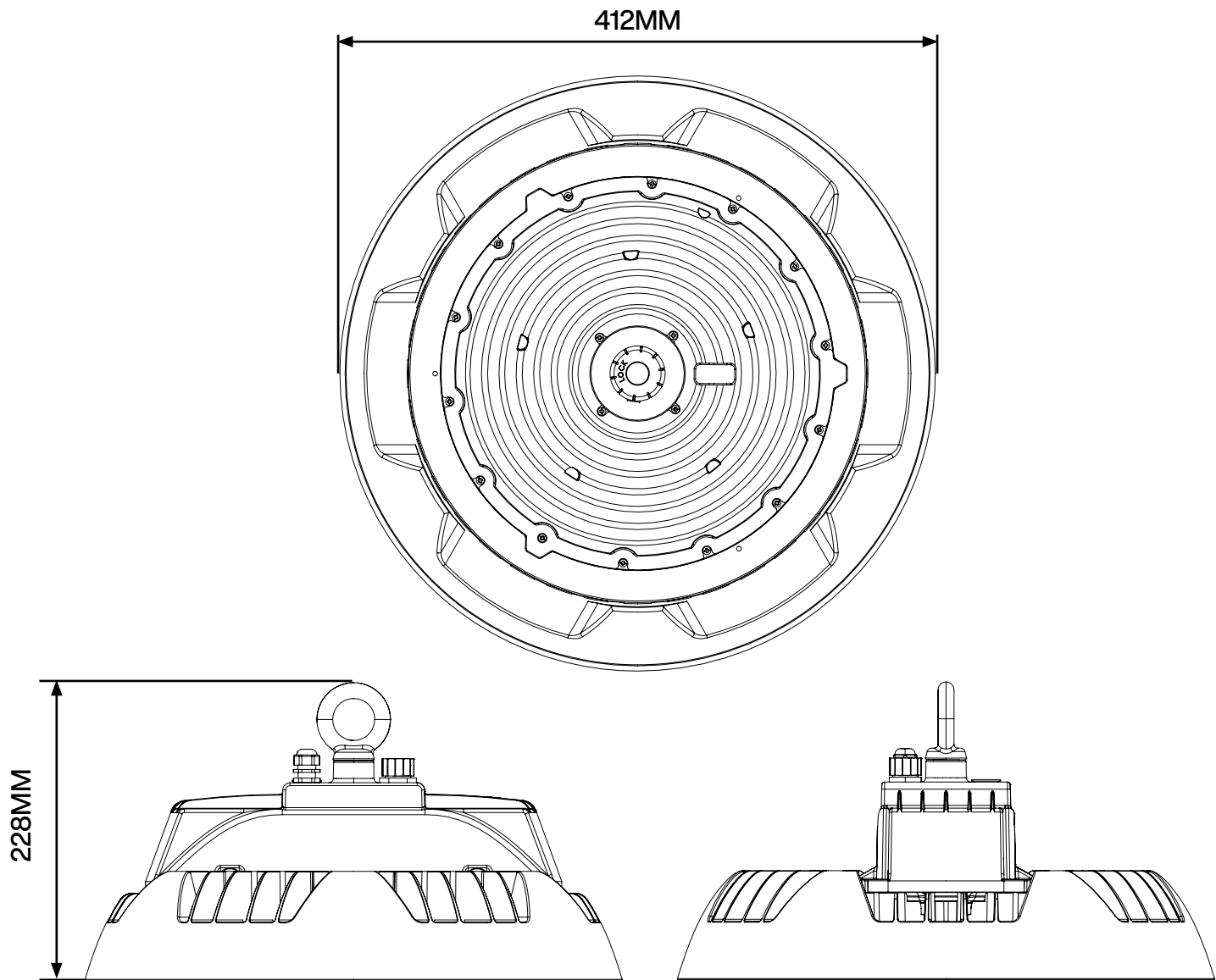
200W



150W



PRODUCT DIMENSIONS



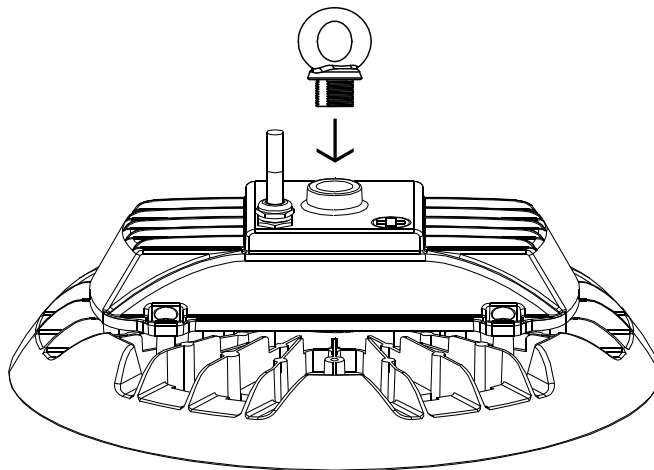
POWER OUTPUT CHART

ML-NOX-HB150-300-A			
POWER SETTING	LUMEN OUTPUT (lm)	EFFICACY lm/W	CURRENT (A)
150	23,206lm	154lm/W	0.69A
200	30,985lm	151lm/W	0.89A
240	36,685m	148lm/W	1.06A
300	41,547lm	145lm/W	1.22A

INSTALLATION GUIDE

Disconnect mains before proceeding

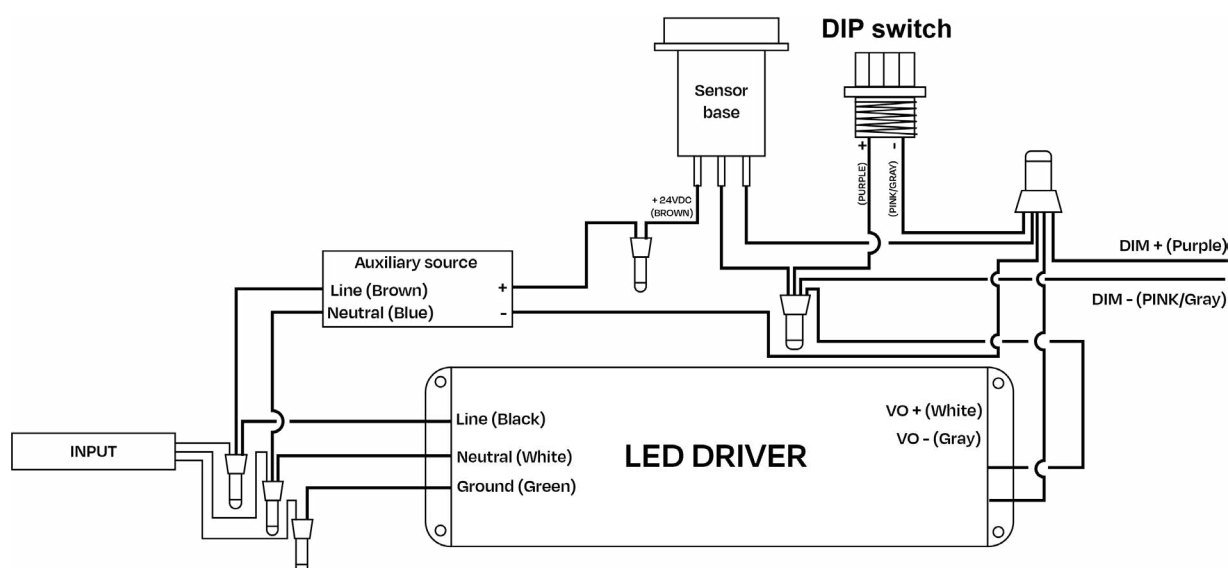
1. Remove existing light and disconnect any unsuitable wiring if required. Install the new High bay with suitable mounting method.
2. Ensure you install a 'fail safe' in case the primary supports fail on the high bay
3. Plug the new high bay into the power outlet
4. Test the high bay for safety and performance



DIMMING CONNECTIONS

Please note: Do not connect anything other than a 1-10V dimmer or control system or the warranty will be void.

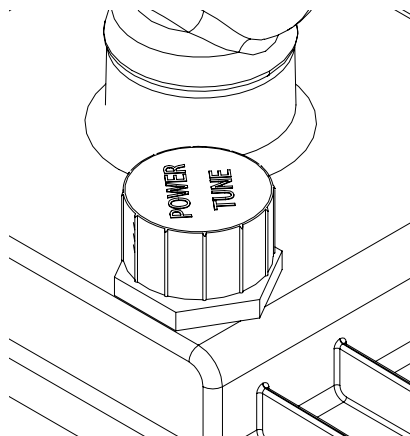
1. Locate the pink/gray (-) and purple (+) dimming fly wire on the highbay driver.
2. Connect to your 1-10V dimming system.
3. Ensure you use suitable sealant/glands to keep the IP rating when connecting your 1-10V dimmer
4. Refit the back plate and ensure all seals are secure. Water penetration from a failure to seal the fitting properly will not be covered under warranty.



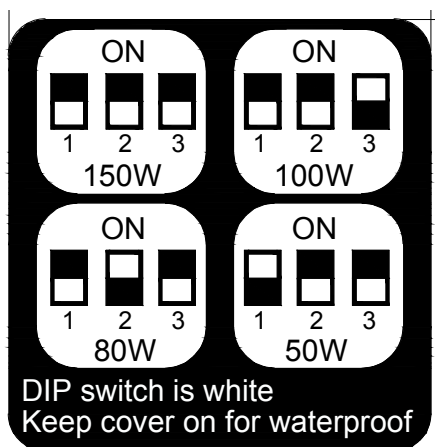
POWER SELECTION

To select the power wattage

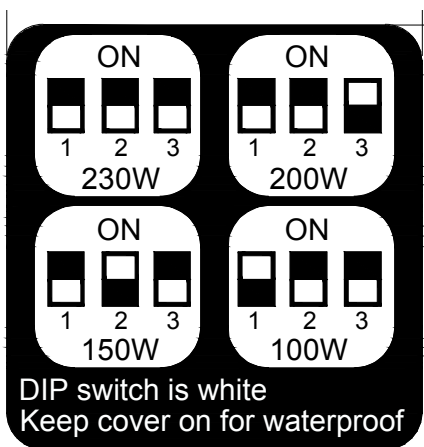
1. Unscrew the knob cap before using the selectable power function.
2. Select the wattage by toggling the DIP switch 1, 2, 3 to select the corresponding power.
3. Screw the cap on after selection.



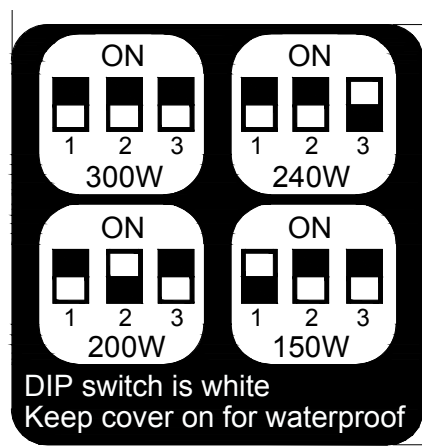
ML-NOX-HB50-150-A



ML-NOX-HB100-230-A



ML-NOX-HB150-300-A



PLEASE NOTE

- Read instructions carefully before attempting to install the fitting. Retain this guide for future reference
- Disconnect power before installing or servicing
- This fitting is for outdoor use and should not be used in areas with limited ventilation or high ambient temperatures
- Do not extend low voltage cables from the output of power supply
- All components must not be mechanically stressed
- Be careful not to damage or destroy conductive paths on the circuit board
- Follow all relevant electrical and safety standards (including AS3000)
- Correct electrical polarity must be observed as the wrong polarity may destroy the product and is not covered under warranty
- Damage by corrosion will not be honoured as a material defect claim. It is the user's responsibility to provide suitable protection against corrosive agents such as moisture, condensation and other harmful elements
- The NOX Highbay must be installed at least 600mm away from an uninsulated roof for better air circulation and to avoid overheating.

ACCESSORIES



REFRACTOR ML-NOX-HB-REF

SUITS NOX 50-150 HB, NOX 100-230 HB



DROP LENS ML-NOX-HB-REF-D-A

SUITS NOX 50-150 HB, NOX 100-230 HB



CONE LENS ML-NOX-HB-REF-D-Y

SUITS NOX 50-150 HB, NOX 100-230 HB

NOTE: REFRACTOR NOT INCLUDED WITH DROP LENS OR CONE LENS



BRACKET MOUNT ML-NOX-HB-BR

SUITS NOX 50-150 HB, NOX 100-230 HB, NOX 150-300 HB



MICROWAVE SENSOR ML-SENSOR

SUITS NOX 50-150 HB, NOX 100-230 HB, NOX 150-300 HB



MICROWAVE SENSOR ML-REMOTE

SUITS ML-SENSOR

NOTE: Remote does **NOT** come with sensor & must be purchased separately

NOX HIGHBAY

Refractor guide

ML-NOX-HB-REF

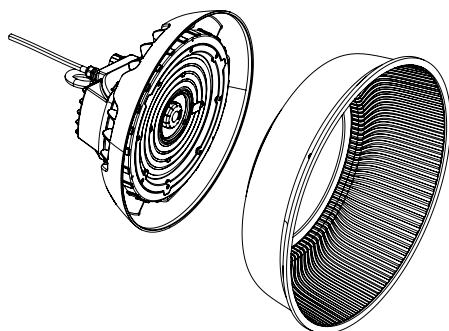
Compatible with:

- NOX 50-150 High Bay
- NOX 100-230 High Bay

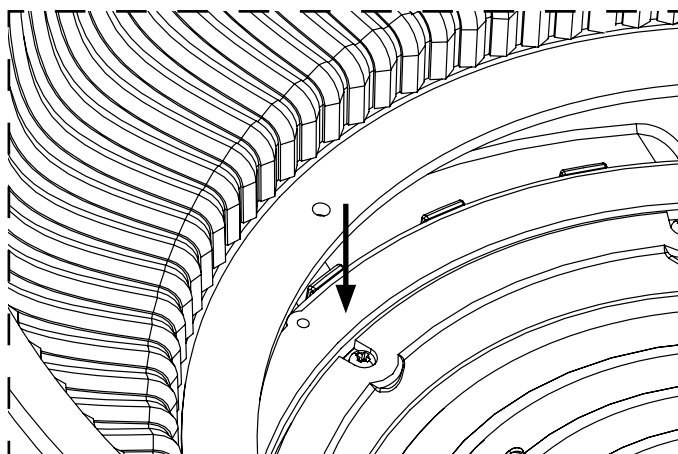


REFRACTOR INSTALLATION - ML-NOX-HB-REF

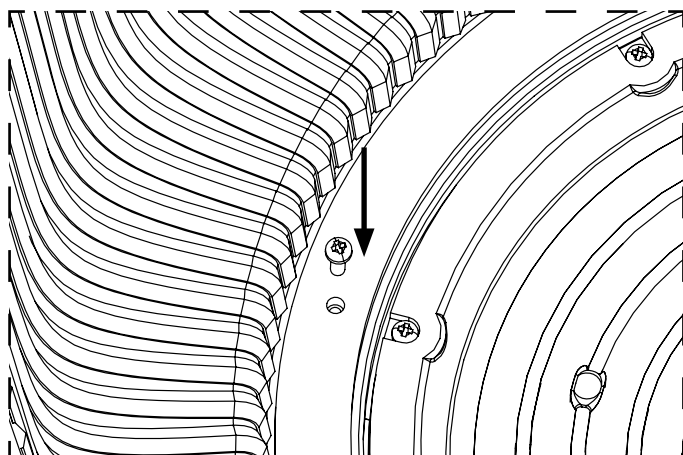
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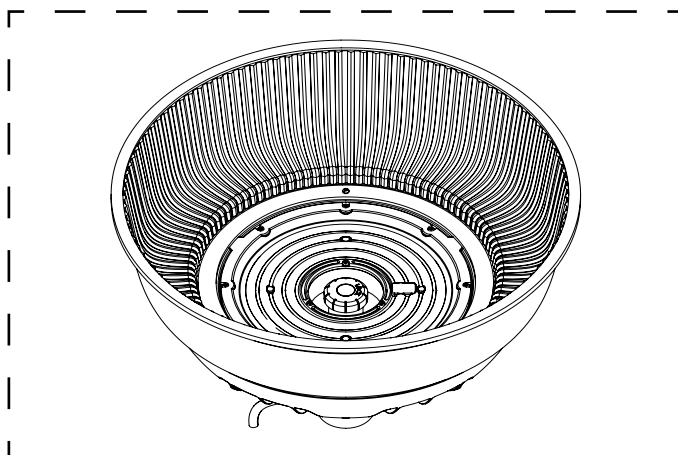
B



C



B



NOX HIGHBAY

Refractor lens guide

ML-NOX-HB-REF-D-Y

Compatible with:

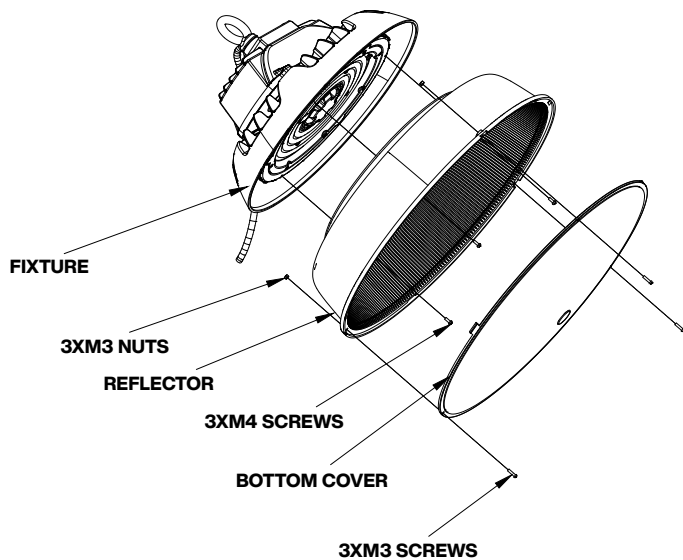
- NOX 50-150 High Bay
- NOX 100-230 High Bay



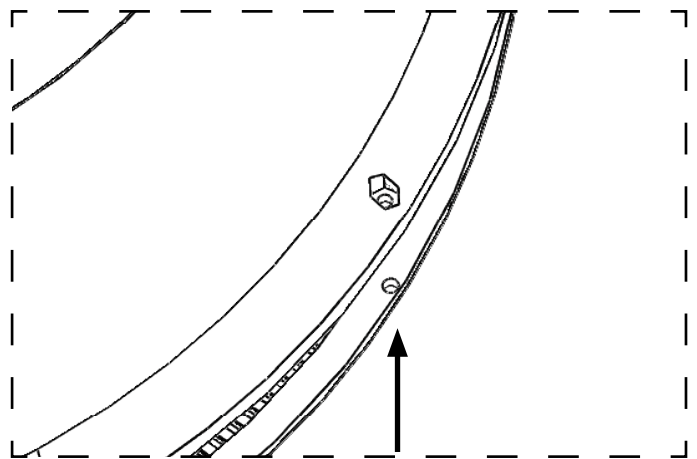
NOTE: REFRACTOR NOT INCLUDED WITH CONE LENS, MUST BE ORDERED SEPARATELY

CONE LENS INSTALLATION - ML-NOX-HB-REF-D-Y

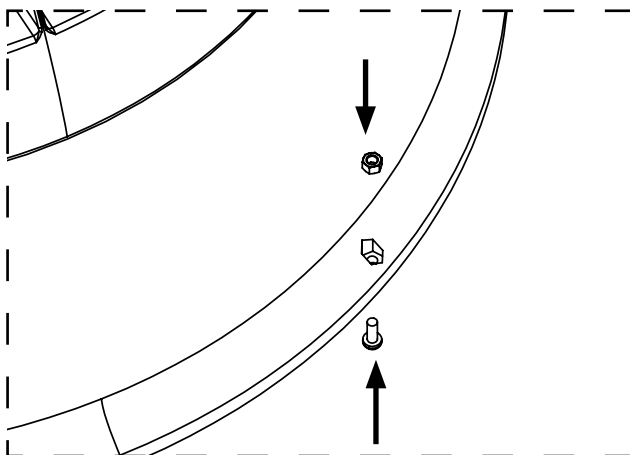
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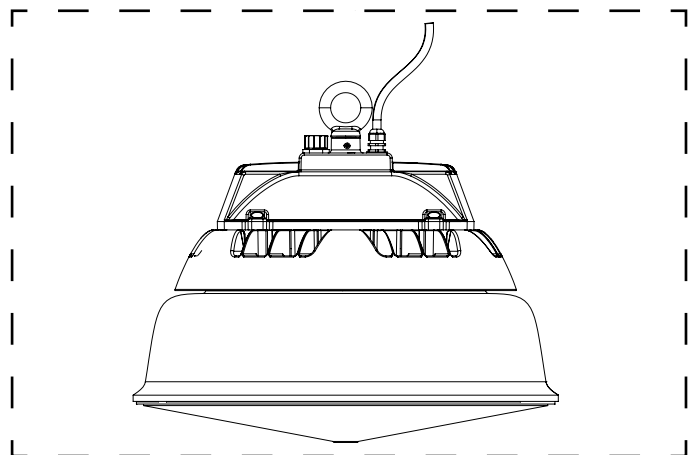
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C



D



NOX HIGHBAY

Refractor lens guide

ML-NOX-HB-REF-D-A

Compatible with:

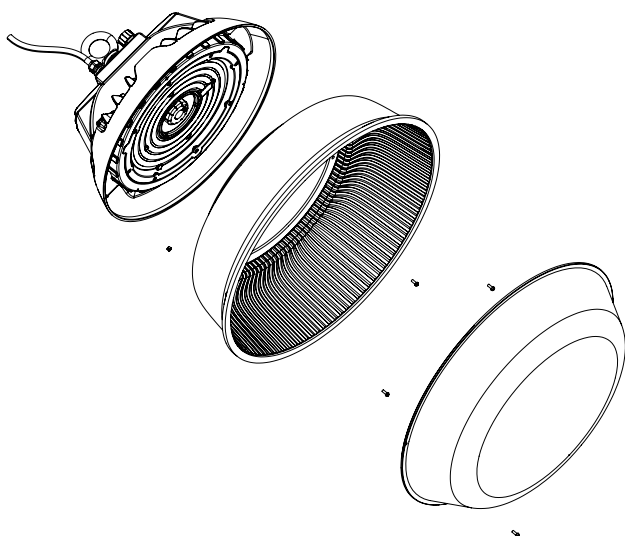
- NOX 50-150 High Bay
- NOX 100-230 High Bay



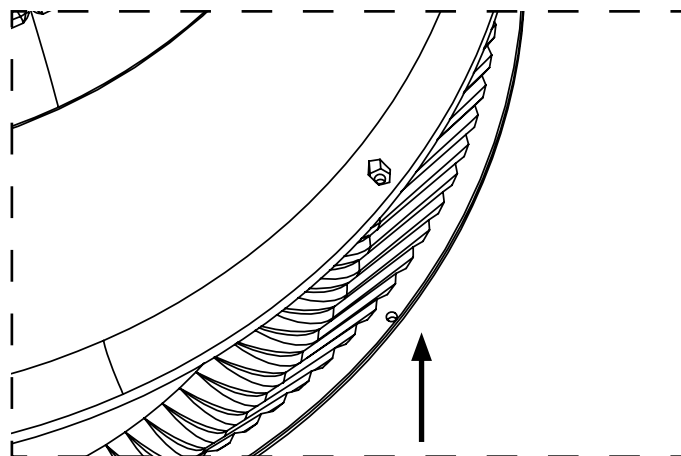
NOTE: REFRACTOR NOT INCLUDED WITH DROP LENS, MUST BE ORDERED SEPARATELY

DROP LENS INSTALLATION - ML-NOX-HB-REF-D-A

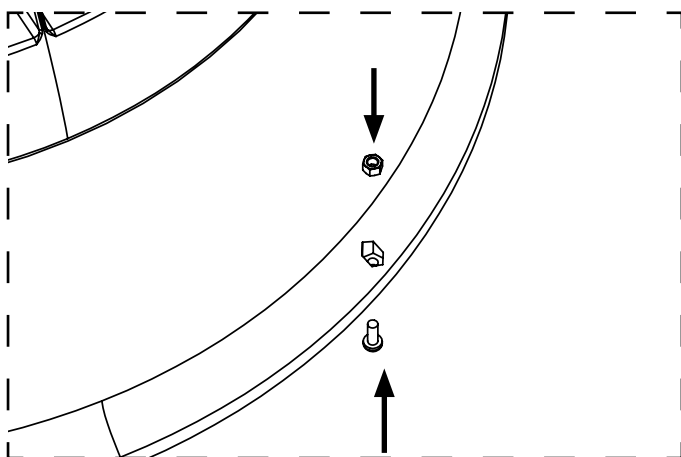
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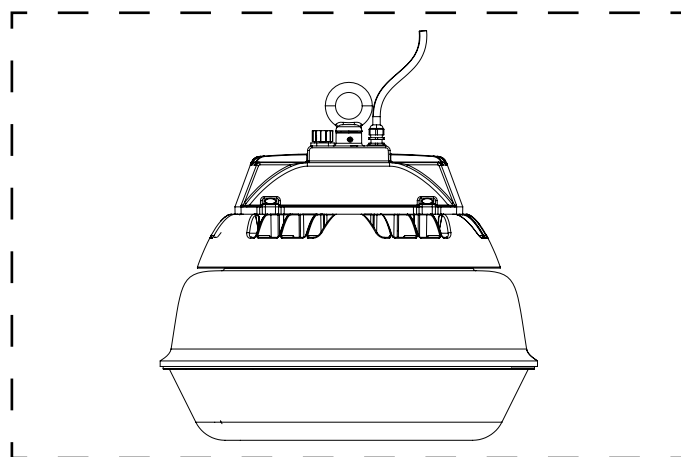
B



B



B



NOX HIGHBAY

Bracket mount guide

ML-NOX-HB-BR

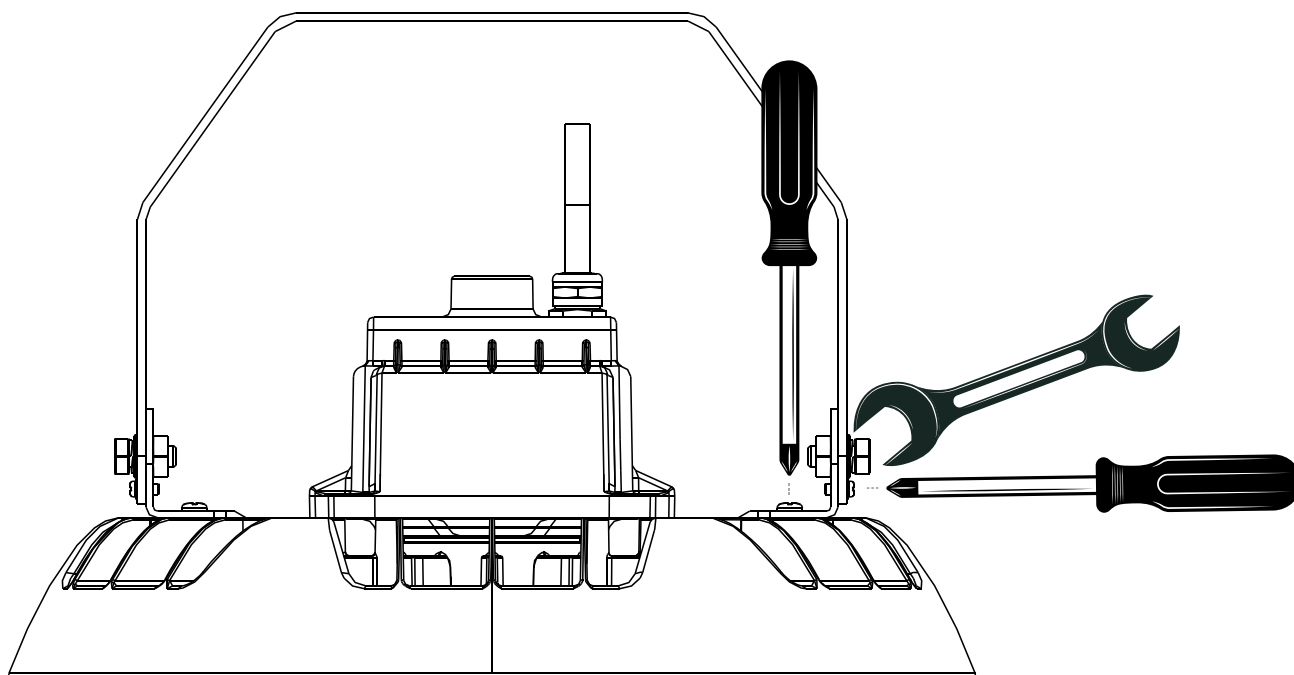
Compatible with:

- NOX 50-150 High Bay
- NOX 100-230 High Bay
- NOX 150-300 High Bay



BRACKET MOUNT INSTALLATION - ML-NOX-HB-BR

A



NOX HIGHBAY

Sensor & remote guide

ML-SENSOR & ML-REMOTE

Compatible with:

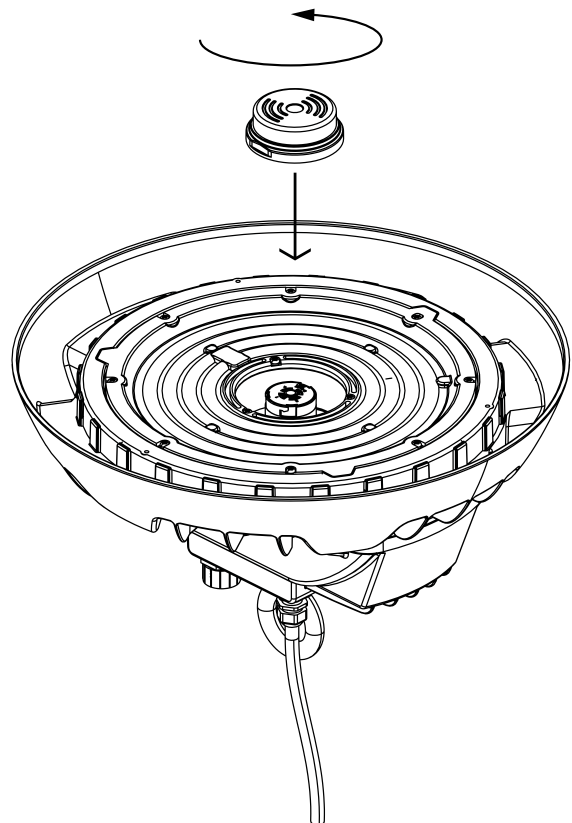
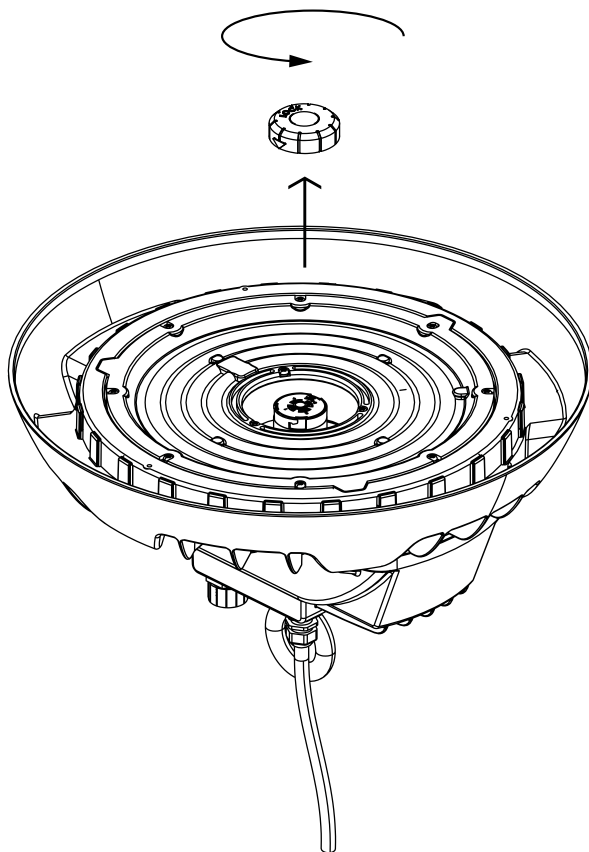
- NOX 50-150 High Bay
- NOX 100-230 High Bay
- NOX 150-300 High Bay

NOTE: REMOTE NOT INCLUDED WITH SENSOR, MUST BE ORDERED SEPARATELY



SENSOR INSTALLATION - ML-NOX-HB-REF-D-Y

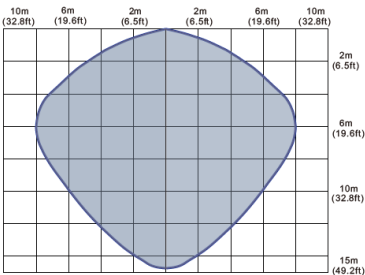
1. Unscrew the lock cap from middle of High Bay
2. Replace Lock cap with microwave sensor locking it into place by turning it clockwise.



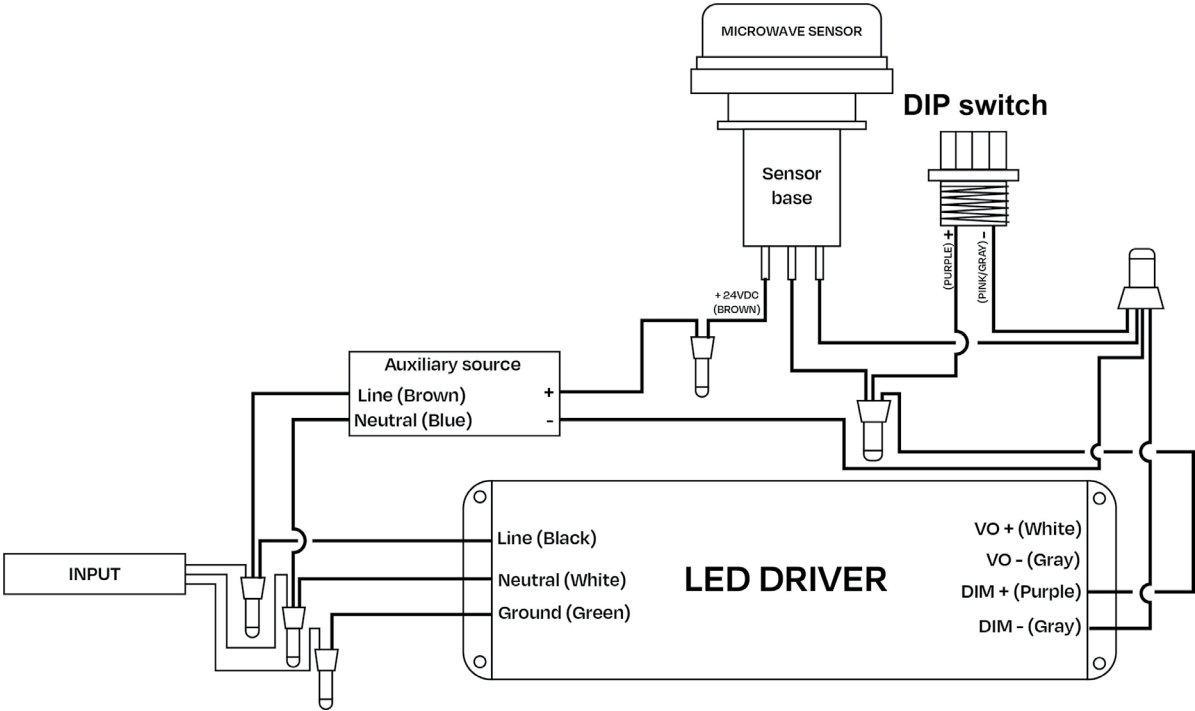
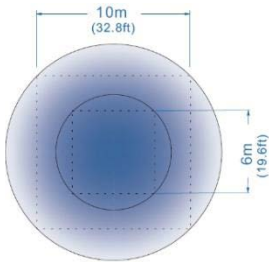
TECHNICAL INFORMATION

IP Rating	IP65
Input Voltage	12VDC
Detection Area	Max 10m Installation heights. Max 16m Coverage area
Temp Range	-35°C to +60°C
Sensor Type	Microwave motion detector
Microwave frequency	5.8G+75MHz,ISM wave band
Detection Angle	150° (wall installation), 360° (ceiling installation)
Detection Area	Max 10m Installation heights. Max 16m Coverage area
Hold Time	5s / 2min / 5min / 10min
Dimensions	Ø 58mm x H 25mm
Weight	0.04kg
Warranty	3 Years

WALL MOUNTED
SIDE VIEW



CELLING MOUNTED
TOP VIEW



PLEASE NOTE

- MUST BE INSTALLED BY A LICENSED ELECTRICIAN
- Read instructions carefully before attempting to install the fitting. Retain this guide for future reference
 - All components must not be mechanically stressed
 - Follow all relevant electrical and safety standards (including AS3000)
 - Damage by corrosion will not be honoured as a material defect claim. It is the user's responsibility to provide suitable protection against corrosive agents such as moisture, condensation and other harmful elements

SENSOR & REMOTE



 Hibernation - the sensor stops working and goes into hibernation. Press any other key to re-enter the working. Press any other key to realize the function of the key itself.		 Test Button 6S	 Factory Reset
 100%+0%/100%+2min1	 00%+20%/100%+2min	 50%+0%/100%+2min	 50%+20%/100%+2min
 100%	 75%	 50%	 25%
Sensitivity setting of microwave sensor (Keys only work in microwave mode)			
 0%/100%	 20%/100%	 50%/100%	 80%/100%
Microwave mode /Microwave Setting			
 50LUX	 100LUX	 200LUX	 Cancel photocell mode, but invalid in timer Mode and Bucket mode
Photocell threshold value setting			
 5s	 2min	 5min	 10min
Duration time Setting after microwave trigger (Keys only work in microwave mode)			
 0s	 1min	 5min	 Dim/Time
 10min	 30min	 ∞	 Dim/Time
Standby time setting of microwave mode (Keys only work in microwave mode)			Time Bucket mode 1,2 (Keys only work with photocell mode)
 30%	 60%	 80%	 100%
Fixed mode / Luminance setting			
 3H	 6H	 9H	 Cancel timer mode
Timer mode setting (Keys only work with photocell mode)			

SENSOR & REMOTE



Sensor sensitivity

1. Key The Max detection distance of microwave sensor is 15M.
2. Key The Max detection distance of microwave sensor is 11 M.
3. Key The Max detection distance of microwave sensor is 7 M.
4. Key The Max detection distance of microwave sensor is 3.5 M.

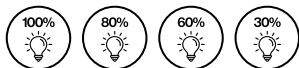
Duration time

1. 5S 5S key lasting time
2. 2min 2min key lasting time
3. 5min 5min key lasting time
4. 10min 10min key lasting time



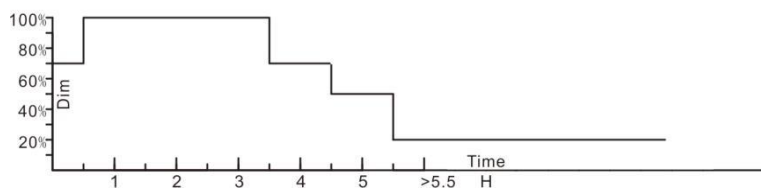
Microwave mode:

1. No motion was detected continuously, the light will turn off after the duration time (5S / 2min / 5min / 10min), and the light will remain 100% luminance if motion is detected.
2. No motion was detected continuously, the light luminance will drop to 20% after the duration time (5S/2min/5min/10min), and the light will remain 100% luminance if motion is detected.
3. No motion was detected continuously, the light luminance will drop to 30% after the duration time (5S/2min/5min/10min), and the light will remain 100% luminance if motion is detected.
4. No motion was detected continuously, the light luminance will drop to 50% after the duration time (5S/2min/5min/10min), and the light will remain 100% luminance if motion is detected.



Fixed mode

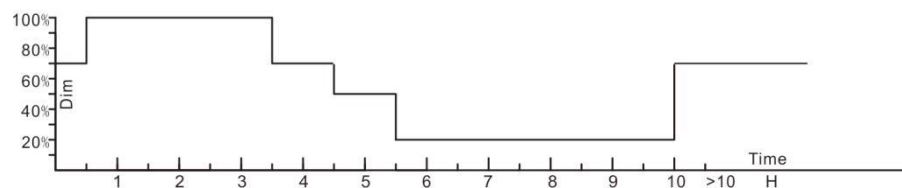
1. The light stays at 30% luminance
2. The light stays at 60% luminance
3. The light stays at 80% luminance
4. The light stays at 100% luminance



Time Bucket mode 1



The luminance of the light changes with the time bucket . The internal timer starts timing or reset with the ambient luminance under working conditions. The luminance is 70% in 0.5H , 0.5H 3.5H is 100%, 3.5H 4.5H is 70%, 4.5H 5.5H is 50%. Then turn off the light when the luminance is 20% until the environment is bright.



Time Bucket mode 2



The luminance of the light changes with the time bucket . The internal timer starts timing or reset with the ambient luminance under working conditions. The luminance is 70% in 0.5H , 0.5H 3.5H is 100%, 3.5H 4.5H is 70%, 4.5H 5.5H is 50%, 5.5H 10H is 20%. Then turn off the light when the luminance is 70% until the environment is bright.

SENSOR & REMOTE

Timing Mode



1. The internal timer starts timing or reset with the ambient luminance under working conditions, Turn off the lights after 3H
2. The internal timer starts timing or reset with the ambient luminance under working conditions, Turn off the lights after 6H
3. The internal timer starts timing or reset with the ambient luminance under working conditions, Turn off the lights after 9H

Cancel Timing Mode



Timing mode 3H / 6H / 9H Failure

Test Button



TEST

Press the button, the red indicator light is on, keep 10% brightness for 1S then entering the induction state, after sense the movement of the object, the light brightness turn to 100%. After testing for 6S, the test mode is automatically exited, and the red indicator light is off.

Photocell mode



1. Set the photocell threshold value ambient luminance is about 50Lux
2. Set the photocell threshold value ambient luminance is about 100Lux
3. Set the photocell threshold value ambient luminance is about 200Lux

When the ambient luminance is below the threshold, the product activates and operates according to the setting mode. However, when the ambient luminance exceeds the threshold and the infrared level in the environment reaches the product's inherent threshold, the product switches to a non-working state and the light turns off.

Turn off Photocell mode



Photocell mode 50Lux /100Lux /200Lux is failure The change of ambient luminance has no effect on the working state of the controller.

Stand-by time

- | | |
|-----------|---------------------------------------|
| 1. 0S | 0S key Set standby time as 0S |
| 2. 1 min | 1 min key Set standby time as 1 Min |
| 3. 5 min | 5 min key Set standby time as 5 Min |
| 4. 10 min | 10 min key Set standby time as 10 Min |
| 5. 30 min | 30 min key Set standby time as 30Min |

Standby mode will only be activated in microwave mode with 20% - 100%, 30% - 100%, 50% - 100%.

For example, when the microwave mode is 20% - 100%, no motion state is detected continuously, and the holding time is up to (5S / 2min / 5min) where the brightness of the light will be reduced to 20%, and no motion state is detected continuously.

When the standby time is up (0s / 1min / 5min / 10min / 30min), the light will be turned off. If a motion state is detected, the light will maintain at 100% brightness.

6. Cancel the standby mode



For example microwave mode 20% - 100%, when no motion is detected continuously, the light luminance will drop to 20% after the duration time (5S/2min/5min), and the light will remain 100% luminance if motion is detected.

Factory Reset



The operation of remote has memory function resume to default setting.

Other:

1. Factory default mode is 2min 0% - 100% 100% 50LUX Cancel timing mode Cancel the standby mode.
2. Time Bucket mode/fixed mode/microwave mode can only be activated in one mode at the same time.
3. Time Bucket mode, Timer mode can only work in photocell mode and in outdoor environments with alternating light and dark.



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