

# .....Dialight



## Dialight® LED High Bay - High Output Technical Specification Sheet - EMEA

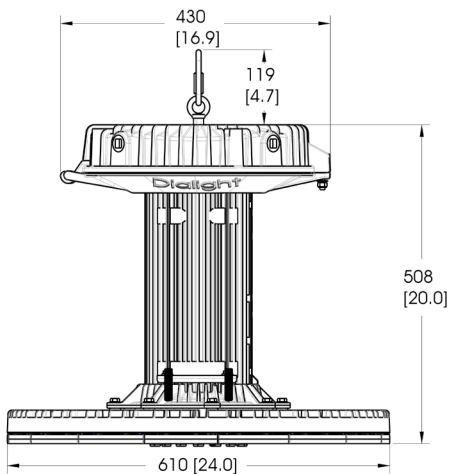
# Vigilant® LED High Bay - High Output

## Standard Models



### Certifications & Ratings

- CE
- EN 55015:2013
- EN 60598:2008
- EN 61547:2009
- EN 62471:2008
- ENEC
- RCM
- IK06 to EN50102
- IP66/67



Dimensions in mm [inches]

### Mechanical Information:

**120-277 VAC model**  
**complete fixture weight:** 28.6 kg (63.1 lbs)  
 Wiring box: 3.2 kg (7.1 lbs) [mount first]  
 Light engine (base): 25.4 kg (56.0 lbs) [mount last]

**Shipping weight:** 37.5 kg (82.6 lbs)

**415 VAC model**  
**complete fixture weight:** 35.8 kg (79 lbs)  
 Wiring box: 10.4 kg (23 lbs) [mount first]  
 Light engine (base): 25.4 kg (56.0 lbs) [mount last]

**Shipping weight:** 44.7 kg (98.6 lbs)

Note that the wire box is installed separately from the housing. This allows single installer for fixtures.

**Box dimensions (cm):** Length - 64, Width - 56.5, Height - 72.7

**Mounting:** Hook mount

**Cable entry:** (4) M25 - sides

**Terminals:** 5 position, 0.5-4 mm<sup>2</sup>

### Materials:

**Housing:** Die cast aluminium alloy A360

**Hardware:** 18-8 stainless steel

**Hook:** 304 stainless steel

**Safety shackle:** 304 stainless steel

**Safety rope:** Optional 316 stainless steel safety rope, 304 stainless steel crimp

### Gaskets:

**Light engine:** Santoprene

**Wiring box:** Silicone

**Power supply (ends):** EPDM

**Lens:** Tempered glass, acrylic or UV stabilized polycarbonate

**Fixture finish:** Superior dual coat finish  
 - Sealed polyester topcoat  
 - Chemical-resistant epoxy primer

### Electrical Specifications:

**Operating voltage:** 120-277 VAC, 50/60 Hz  
 415 VAC

**Operating temperature:** -40°C to +65°C (-40°F to +149°F)

**Total system power consumption:** See table

**EMC:** EN 62493: 2015, EN 61547: 2009, EN 61000-3-2: 2015, EN 61000-3-3: 2013

**Transient protection:** 6kV/3kA combination wave, as per IEEE C62.41, line-line and line-ground

**THD:** EN55015:2013 < 20%

**Harmonics:** IEC 61000-3-2, Class C

**Power factor:** > 0.9

### Variable Dimming:

**Variable dimming control:** 0-10 VDC

**Dimming range:** 10 VDC = 100% light output  
 0 VDC = 5% light output

### Photometric Information:

**CRI:** 80

**CCT:** 5000K (cool white)  
 4000K (neutral white)

All values typical unless otherwise stated (tolerance +/- 10%)

# Ordering Information

## Vigilant® LED High Bay - High Output - Standard Models



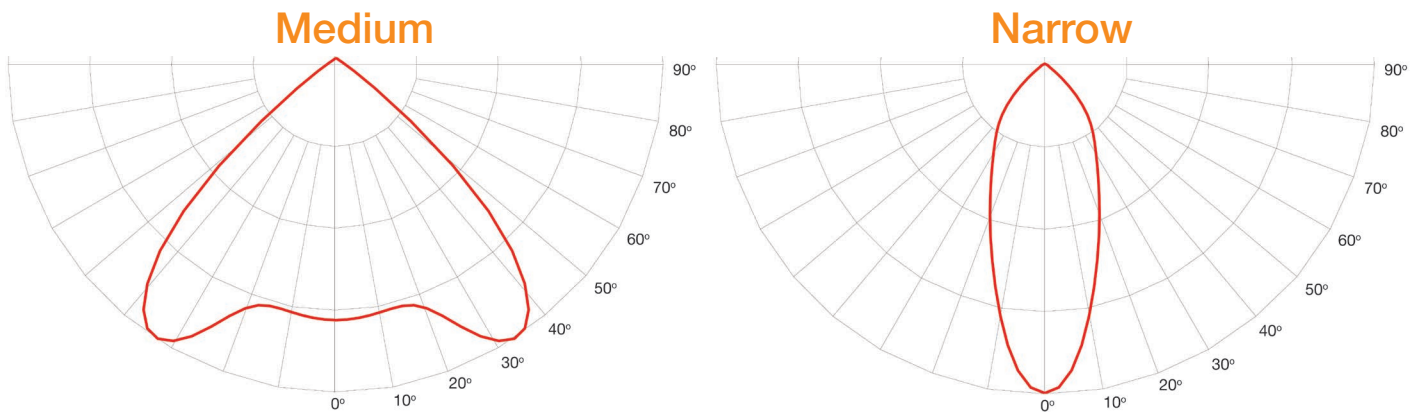
Part Number	Fixture Lumen	Watt	lm/W	IP Rating	Voltage	CCT	Lens	Beam Distribution
CE Standard Models - 120-277 VAC Models								
H6E-7MC2-RDHN-NGN	72,000	484	149	IP66/67	120-277 VAC	5000K (cool white)	Tempered glass	Medium
H6E-7NC2-RDHN-NGN	72,000	484	149	IP66/67	120-277 VAC	5000K (cool white)	Tempered glass	Narrow
H6E-7MC2-NDHN-NGN	60,000	414	145	IP66/67	120-277 VAC	5000K (cool white)	Tempered glass	Medium
H6E-7NC2-NDHN-NGN	60,000	414	145	IP66/67	120-277 VAC	5000K (cool white)	Tempered glass	Narrow
H6E-7MC2-KDHN-NGN	45,000	309	146	IP66/67	120-277 VAC	5000K (cool white)	Tempered glass	Medium
H6E-7NC2-KDHN-NGN	45,000	309	146	IP66/67	120-277 VAC	5000K (cool white)	Tempered glass	Narrow

All values typical unless otherwise stated (tolerance +/- 10%).

All models shown in table are 5000K (cool white) CCT. For 4000K (neutral white) CCT replace the 6th character with an **N**. Example: H6E-7MC2-RDHN-NGN becomes H6E-7MN2-RDHN-NGN.

45,000 lumen output fixture available with factory installed occupancy sensor for mounting heights of up to 12m. Consult factory for more information.

# Beam Distribution



## In Rush Current / Circuit Breakers

Model	Wattage	In rush current @ input voltage			Time duration of in rush current @ input voltage		
		100 VAC	230 VAC	277 VAC	100 VAC	230 VAC	277 VAC
72,000	484	7.7A	14.8A	17.8A	1ms	1ms	1ms
60,000	414	7.7A	14.8A	17.8A	1ms	1ms	1ms
42,000	309	7.7A	14.8A	17.8A	1ms	1ms	1ms

## Lumen Maintenance Factor

High Bay High Output (Hours)									
Ambient (°C)	0	15,000	30,000	45,000	60,000	75,000	90,000	100,000	150,000
25°	100%	98%	96%	95%	94%	92%	91%	90%	86%
30°	100%	97%	96%	95%	93%	92%	91%	90%	88%
35°	100%	97%	96%	95%	93%	92%	91%	90%	86%
40°	99%	97%	95%	94%	93%	91%	90%	89%	85%
45°	98%	96%	95%	93%	92%	91%	90%	89%	82%
50°	98%	96%	95%	93%	92%	91%	89%	89%	81%
55°	98%	95%	94%	93%	91%	90%	89%	88%	78%
60°	97%	95%	94%	92%	91%	90%	89%	88%	76%
65°	97%	95%	93%	92%	91%	89%	88%	87%	73%

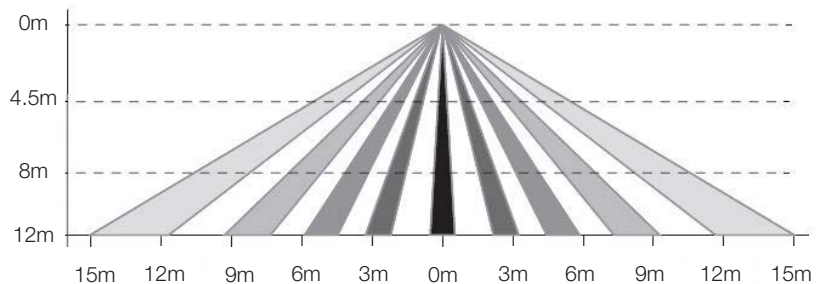
Measured LED temperature for an ambient temperature range of 25°C to 65°C and calculated lumen maintenance using TM-21 calculator and LED LM80 data.

## Occupancy Sensor Details



**HBXFSIRREMOTE**  
 • Remote for occupancy sensor

Coverage Side View



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