

Vigilant® LED High Bay

Technical Specifications



Mechanical Information:

Fixture weight:
20 lb (9.1 kg)

Shipping weight:
26 lb (11.8 kg)

Mounting:
3/4" NPT or Hook

Wiring box cable entries:
(2x) 3/4" NPT

Integrated Pendant Wiring Box 100-277 VAC

Available with and without hook



Mechanical Information:

Fixture weight:
18 lb (8.2 kg)

Shipping weight:
24 lb (10.9 kg)

Mounting:
3/4" NPT - top
Various kits

Power cord:
18 AWG STOOW

Corded Models 100-277 VAC

Patent pending



Mechanical Information:

Fixture weight:
40 lb (18.1 kg)

Shipping weight:
45 lb (20.4 kg)

Mounting:
3/4" NPT - top
Various kits

Passive Power Supply 347 VAC, 480 VAC

Patent pending



Mechanical Information:

Fixture weight:
34 lb (15.4 kg)

Shipping weight:
39 lb (17.7 kg)

Mounting:
3/4" NPT - top
Various kits

Wiring box cable entries:
(4x) 3/4" NPT

Wiring Box 347/480 VAC

Certifications & Ratings:

UL 1598/A (wet locations)	CSA C22.2 No. 250
IP66/67 (100-277 VAC)	IP66 (347/480 VAC models)
NEMA 4X	Up to 145 lm/W

Variable Dimming:

Variable dimming control: 0-10 VDC

Dimming range:

10 VDC = 100% light output
0 VDC = <5% light output

Occupancy Sensor:

Mounting Height: Up to 40ft
Ingress Protection: IP66

Electrical Specifications:

Operating voltage: 100-277 VAC	120-250 VDC
347 VAC	480 VAC

Total system power consumption:

See table

Operating temp:

-40°F to +149°F (-40°C to +65°C)

Harmonics:

IEC 61000-3-2

Noise requirement /EMC:

FCC Title 47, Subpart B, Section 15, class A device. RF Immunity; 10V/m, 80MHz-1GHz

Transient protection:

Protection devices capable of handling up to 10kv. Tested for 6kv/2 ohm combination wave, as per IEEE C62.41, line-line and line-ground

THD:

<20%

Power factor:

>0.9

Fusing:

Internal

Construction:

Housing: Copper-free aluminum

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

Lens: See ordering information

Photometric Information:

CRI:	80
CCT:	5000K (cool white) 4000K (neutral white) 2700K (warm white)

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



Mechanical Information:

Fixture weight:
21 lb (9.6 kg)

Shipping weight:
27 lb (12.3 kg)

Mounting:
3/4" NPT or Hook

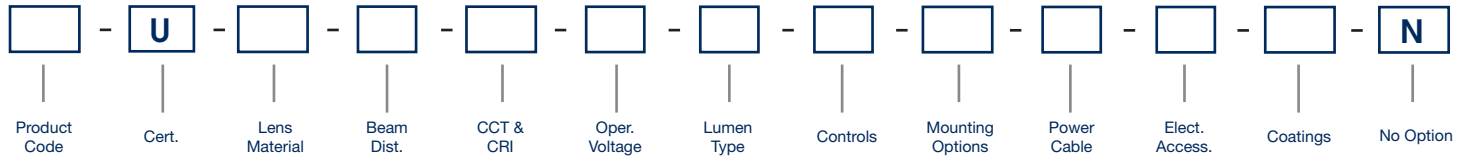
Wiring box cable entries:
3/4" NPT

Integrated Pendant Wiring Box with Occupancy Sensor 100-277 VAC

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Vigilant® LED High Bay

Ordering Information



Product Code ⁴	CCT & CRI	Controls	Electrical Accessories
HC Integrated Pendant Wiring Box	C Cool White 5000K - 80 CRI	N Non Dimming	3 Plug NEMA Type L5-15 (Non Dimmable)
HE ⁵ High Bay 3/4" NPT	N Neutral White 4000K - 80 CRI	D Dimming (0-10 VDC)	4 Plug NEMA Type L5-20 (Non Dimmable)
HW Integrated Hexagon Wiring Box	W Warm White 2700K - 80 CRI	M ³ Occupancy Sensor	6 Plug NEMA Type L6-15 (Non Dimmable)
			7 Plug NEMA Type L6-20 (Non Dimmable)
			8 Plug NEMA Type L7-15 (Non Dimmable)
			9 Plug NEMA Type L7-20 (Non Dimmable)
			H Connector Reloc OCS12010WH (Non Dimmable)
			J Connector Reloc OCS20810WH (Non Dimmable)
			K Connector Reloc OCS27710WH (Non Dimmable)
			N Standard No Plug

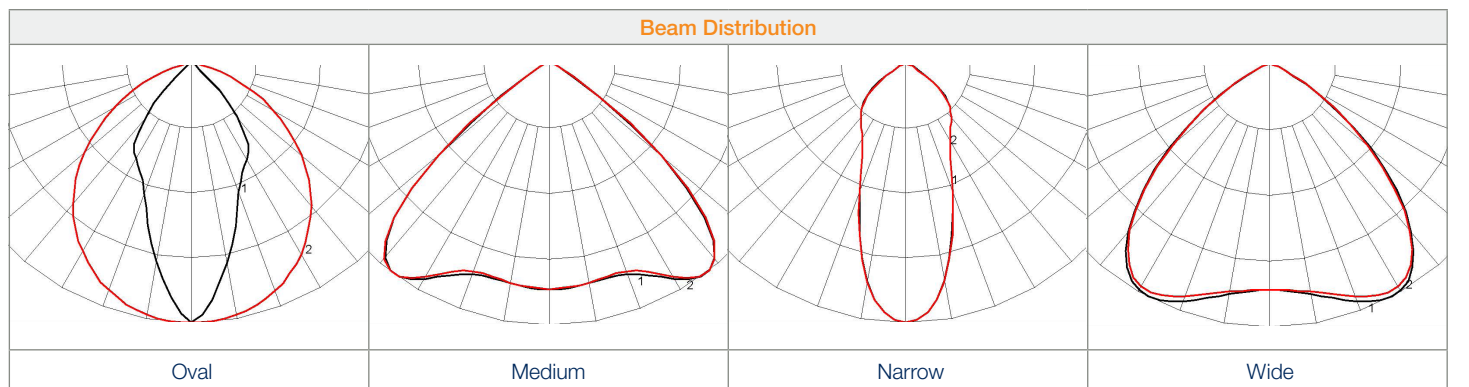
Certification	Operating Voltage	Mounting Options	Power Cable Length
U UL 1598/A, CSA 22.2 No. 250	2 100-277 VAC / 120-250 VDC	H Hook/Loop	N No Power Cable (HC & HW only)
	A ¹ 347-480 VAC Step Down Transformer (HE only)	N Pendant 3/4" NPT	V 6' [1.8 meter] Power Cable
	P ⁵ 480 VAC (HE passive only)	P Pendant 3/4" NPT with Safety Retention Tabs	W 10' [3 meter] Power Cable
	Q ⁵ 347 VAC (HE passive only)	R Hook with Safety Retention Tabs	

Lens Material	Lumen Type ²	Coatings
2 Acrylic - Clear	A 11,000 Lumens	G Gray (RAL 7040)
4 Polycarbonate - Clear	B 14,000 Lumens	O Orange
5 Polycarbonate - Diffused	C 18,000 Lumens	W White
7 Glass - Clear	E 27,000 Lumens	
L Polycarbonate Dome - Diffused		
R Power Wash Glass - Clear		
V Power Wash Polycarbonate - Clear		

Beam Distribution
E Oval
M Medium
N Narrow
W Wide

*All lens options flat except L

- Notes**
- Operating Voltage A - 347/480 VAC will ship with wiring box and transformers. Choose HE prefix for this option. For 480 VAC add 12W, for 347 VAC add 29W.
 - Lumen type based on using a glass lens. See tables for lumens when changing lenses on page 16-17.
 - When ordering factory installed occupancy sensor, use prefix HC for 100-277 VAC models, use prefix HE for 347/480 VAC models.
 - HC & HW prefixed models have the ability to add wireless & DALI controls
 - Passive only available with HE product code and medium optics. Not available with controls options or acrylic lens options.
- Additional features and selections are available, please see the UL High Bay Technical Spec Sheet or your Dialight representative for more information.



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Lumen Tables

Vigilant High Bay 100-277 VAC, 120-250 VDC							
Lumen Letter	Wattage	Lens	Material	Diffused/ Clear	Lumens 5000K CCT	Lumens 4000K CCT	Lumens 2700K CCT
E	186	7	Glass	Clear	26,250	25,250	22,250
	186	2	Acrylic	Clear	25,250	24,500	21,750
	186	4	Polycarbonate	Clear	25,250	24,500	21,750
	186	3	Acrylic	Diffused	24,750	24,000	20,500
	186	5	Polycarbonate	Diffused	24,750	24,000	20,500
	186	L	Polycarbonate Dome	Diffused	24,500	23,750	20,250
	186	8	Glass	Diffused	23,250	22,500	19,125
C	129	7	Glass	Clear	19,500	18,750	15,750
	129	2	Acrylic	Clear	18,750	18,000	15,250
	129	4	Polycarbonate	Clear	18,750	18,000	15,250
	129	3	Acrylic	Diffused	18,250	17,500	14,750
	129	5	Polycarbonate	Diffused	18,250	17,500	14,750
	129	L	Polycarbonate Dome	Diffused	18,000	17,500	14,750
	129	8	Glass	Diffused	17,000	16,500	14,000
B	102	7	Glass	Clear	14,250	13,750	11,750
	102	2	Acrylic	Clear	13,750	13,250	11,000
	102	4	Polycarbonate	Clear	13,750	13,250	11,000
	102	3	Acrylic	Diffused	13,500	13,000	11,000
	102	5	Polycarbonate	Diffused	13,500	13,000	11,000
	102	L	Polycarbonate Dome	Diffused	13,250	12,750	10,750
	102	8	Glass	Diffused	12,500	12,250	10,500
A	80	7	Glass	Clear	11,250	11,000	9,500
	80	2	Acrylic	Clear	10,750	10,500	9,000
	80	4	Polycarbonate	Clear	10,750	10,500	9,000
	80	3	Acrylic	Diffused	10,500	10,250	8,750
	80	5	Polycarbonate	Diffused	10,500	10,250	8,750
	80	L	Polycarbonate Dome	Diffused	10,250	9,950	8,500
	80	8	Glass	Diffused	9,750	9,500	8,000

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Vigilant® LED High Bay

Lumen Tables

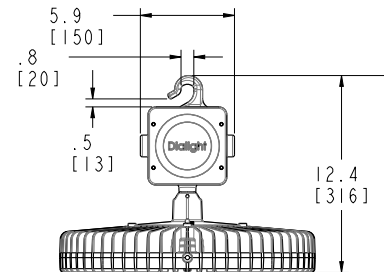
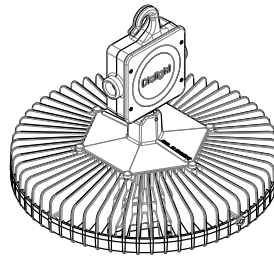
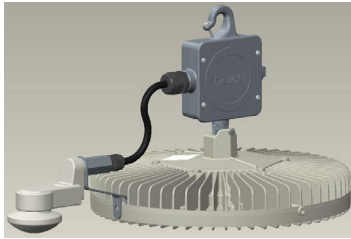
Passive 347 VAC & 480 VAC Power Supply								
Lumen Letter	Wattage		Lens Character	Material	Diffused/Clear	Lumens 5000K CCT	Lumens 4000K CCT	Lumens 2700K CCT
	347 VAC	480V AC						
E	206	206	7	Glass	Clear	27,000	26,250	23,000
	206	206	2	Acrylic	Clear	26,000	25,250	21,500
	206	206	4	Polycarbonate	Clear	26,000	25,250	21,500
	206	206	3	Acrylic	Diffused	25,250	24,500	20,750
	206	206	5	Polycarbonate	Diffused	25,250	24,500	20,750
	206	206	L	Polycarbonate Dome	Diffused	25,000	24,250	20,500
	206	206	8	Glass	Diffused	23,750	23,000	19,500
C	136	129	7	Glass	Clear	18,000	17,500	14,750
	136	129	2	Acrylic	Clear	17,250	16,750	14,250
	136	129	4	Polycarbonate	Clear	17,250	16,750	14,250
	136	129	3	Acrylic	Diffused	17,000	16,500	14,000
	136	129	5	Polycarbonate	Diffused	17,000	16,500	14,000
	136	129	L	Polycarbonate Dome	Diffused	16,750	16,250	13,750
	136	129	8	Glass	Diffused	15,750	15,250	13,000
B	100	116	7	Glass	Clear	14,250	13,750	11,750
	100	116	2	Acrylic	Clear	13,750	13,250	11,000
	100	116	4	Polycarbonate	Clear	13,750	13,250	11,000
	100	116	3	Acrylic	Diffused	13,500	13,000	11,000
	100	116	5	Polycarbonate	Diffused	13,500	13,000	11,000
	100	116	L	Polycarbonate Dome	Diffused	13,250	12,750	10,750
	100	116	8	Glass	Diffused	12,500	12,250	10,500
A	81	73	7	Glass	Clear	11,250	11,000	9,500
	81	73	2	Acrylic	Clear	10,750	10,500	9,000
	81	73	4	Polycarbonate	Clear	10,750	10,500	9,000
	81	73	3	Acrylic	Diffused	10,500	10,250	8,750
	81	73	5	Polycarbonate	Diffused	10,500	10,250	8,750
	81	73	L	Polycarbonate Dome	Diffused	10,250	9,950	8,500
	81	73	8	Glass	Diffused	9,750	9,500	8,000

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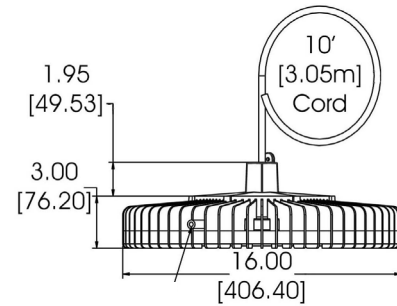
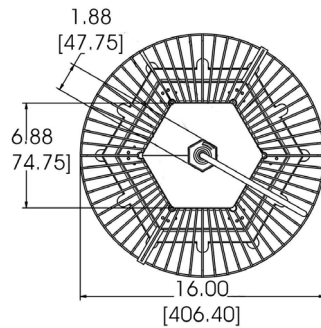
Vigilant® LED High Bay

Dimensional Drawings

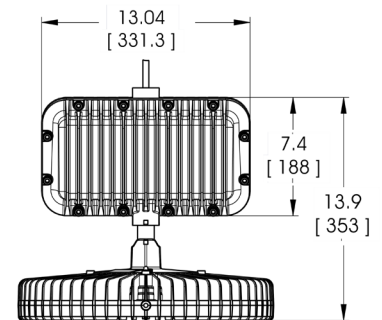
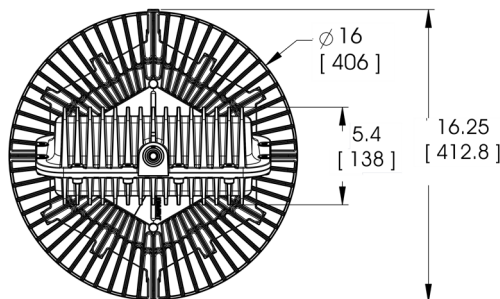
Integrated Pendant Wiring Box 100-277 VAC



Corded Models 100-277 VAC



Passive Power Supply 347 VAC, 480 VAC

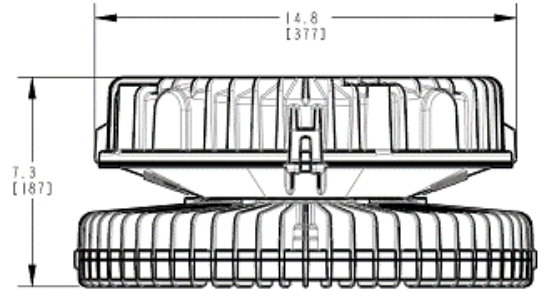
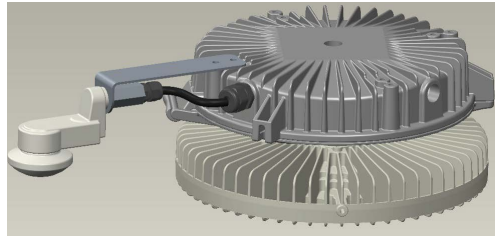


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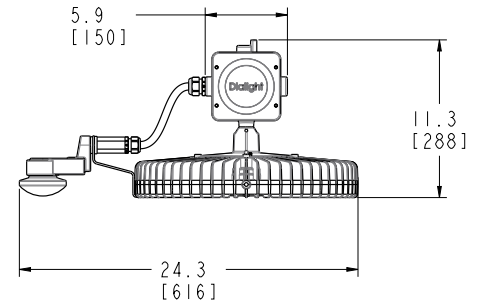
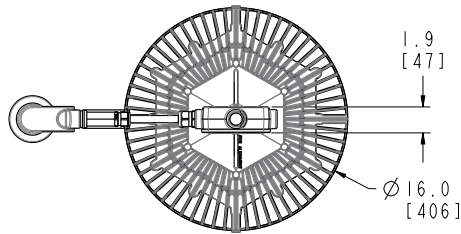
Vigilant® LED High Bay

Dimensional Drawings

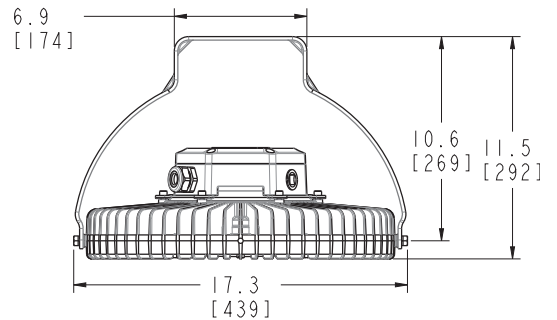
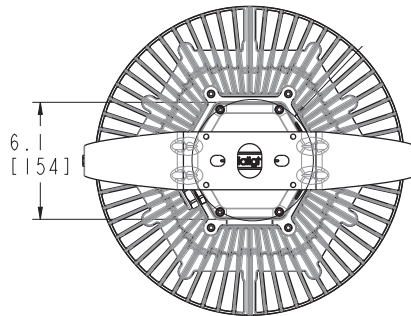
Wiring Box 347/480 VAC



Integrated Pendant Wiring Box with Occupancy Sensor 100-277 VAC



Integrated Hexagon Wiring Box 100-277 VAC



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Vigilant® LED High Bay

Accessories



- HBXW3-SSL-316**
HBXW3-SSL-304
- Stainless steel bracket



- HBXCAB48**
- 48" long stainless steel safety rope (for use with safety retention tabs)



- HBXDC**
- 21° slope dust cover
- HBXDC45**
- 45° slope dust cover
- HBXDC60**
- 60° slope dust cover



- HBXW3-SSL-304FT**
- 304 stainless steel forward throw bracket
- HBXW3-SSL-316FT**
- 316 stainless steel forward throw bracket



- HBXOCC100277U**
- Occupancy sensor and balance weight kit
 - 100-277 VAC
- HBXOCC347480U**
- Occupancy sensor and balance weight kit
 - 347/480 VAC



- HBXCGG**
- Cable gland



- HBXW2**
- Swivel bracket and cable gland
- HBXW3**
- Swivel bracket



- HBXSB**
- 316 stainless steel safety retention tabs (4x)



- HBXDUALBRCKT**
- Dual bracket

Vigilant® LED High Bay

Accessories



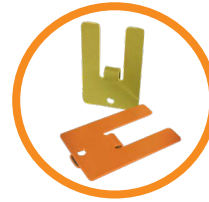
HBXCU

- Ceiling / wall mount



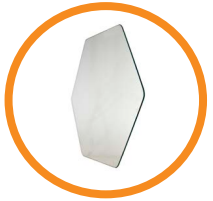
HBXTH347480B

- Top hat with 347/480 VAC step down transformers
- Mounting:
 - 3/4" NPT - top
 - Wiring box cable: side entries: (4x) 3/4" NPT
- Add 12W for 480 VAC & 29W for 347 VAC applications



HBXFLAG-Y HBXFLAG-O

- Yellow aluminum
- Orange aluminum



HBXLENGC

- Tempered glass - clear

HBXLENPC

- Polycarbonate lens - clear

HBXLENAC

- Acrylic lens - clear

HBXLENPD

- Polycarbonate lens - diffused

HBXLENAD

- Acrylic lens - diffused

HBXLENGD

- Tempered glass - diffused



HBXREF16

- Acrylic reflector



H6X-H

- Hook option for 347/480 VAC transformer models



HBXHL

- Hook



HLXW2-SS

- 316 stainless steel swivel bracket and cable gland

HLXW3-SS

- 316 stainless steel swivel bracket



LBXLENP

- Polycarbonate dome lens replacement



HBXFSIRREMOTE

- Remote for occupancy sensor