Dialight





Dialight® LED High Bay & Low Bay

Technical Specification Sheet - Americas

MAY 2025

Vigilant® LED High Bay - UL / CSA

Corded Model & Integrated Wiring Box Model

Corded Model



Mechanical Information:

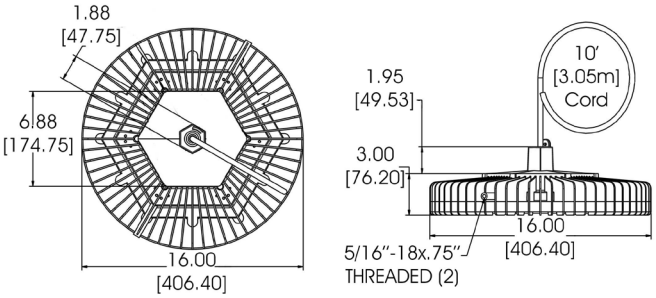
Fixture weight:
18 lbs (8.16kg)

Shipping weight:
24 lbs (10.8kg)

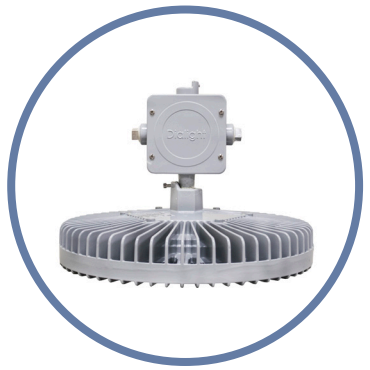
Mounting:
3/4" NPT - top
Various Kits

Power Cord:
10' 18 AWG STOOW/SOOW

Patent pending



Integrated Wiring Box Model



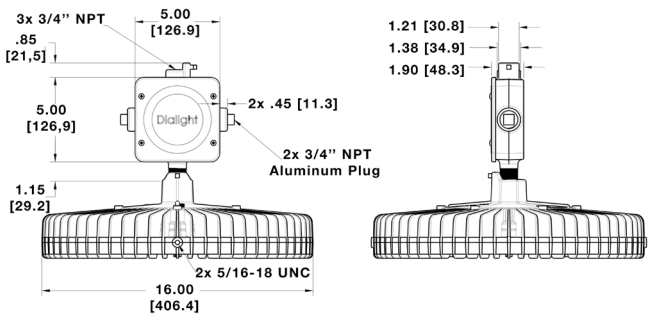
Mechanical Information:

Fixture weight:
20 lbs (9 kg)

Shipping weight:
26 lbs (12 kg)

Mounting:
3/4" NPT or Hook

Wiring Box Cable Entries:
(2x) 3/4" NPT



Dimensions in inches (mm)

Certifications & Ratings:

10 year warranty

UL 1598/A	CSA C22.2 No. 250.0
UL 8750	NEMA 4X
IP66/67	L70 rated for >150,000 hours

Variable Dimming:

Variable Dimming Control:	0-10 VDC
Dimming Range:	10 VDC = 100% light output 0 VDC = <10% light output

Occupancy Sensor:

Mounting Height:	Up to 40ft
Ingress Protection:	IP66

Electrical Specifications:

Operating Voltage:	100-277 VAC, 120-250 VDC 347-480 VAC
Total system power consumption:	See table
Operating Temp:	-40°F to +149°F (-40°C to+65°C
Harmonics:	IEC 61000-3-2 Class C
EMC:	FCC Title 47, Subpart B, Section 15, class A device. RF Immunity; 10V/m, 80MHz-1GHz
Transient protection:	100-277 VAC models tested to withstand up to 8kV/4kA per IEEE C62.41. 347-480 VAC models tested to withstand up to 6kV/3kA per IEEE C62.41
THD:	<20%
Power Factor:	>0.9
Fusing:	Internal

Power Supply:

ALT: **(accelerated life testing)**	Over 15 yr equivalent at 24/7 service
MTBF: **(mean time between failures)**	Over 300 years with annual failure rate less than 0.3% expected
Driver:	Fully potted and sealed for superior protection

Construction:

Housing:	Copper free aluminum
Finish:	Superior dual coat finish Sealed polyester topcoat Chemical-resistant epoxy primer
Lens:	See table
Vibration:	Up to 5G @ 10-150Hz for 750,000 cycles, per IEC 60068-2-6 for luminaire only
Shock:	50G half-sine for 3 cycles, per IEC 60068-2-27 for luminaire only

Photometric Information:

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

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

WARNING - INSTALLATION & SECONDARY RETENTION. Use of any Dialight products without proper installation (including secondary retention / netting) and periodic inspections could cause severe injury or death. Dialight recommends that all installations should use secondary retention / netting (appropriate to the installation environment) where applicable. It is the exclusive responsibility of the contractor, installer and/or end-user to: (a) determine the suitability of the product for its intended application; and, (b) ensure that the product is safely installed (with secondary retention / netting where appropriate) and in compliance with all applicable laws and regulations. To the extent permissible under applicable laws, Dialight disclaims all liability for personal injury and/or other damage resulting from any dislodgment or other dislocation of its products.

Vigilant® LED High Bay - UL / CSA

Battery Backup Model



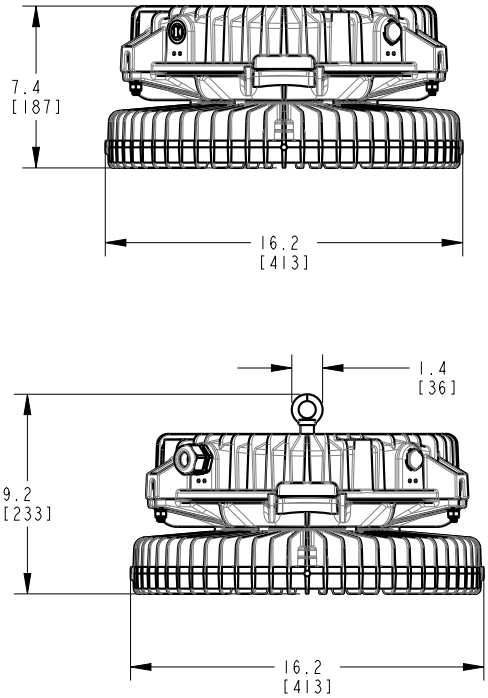
Mechanical Information:

Fixture weight:
39 lbs (17.7 kg) max

Shipping weight:
46 lbs (20.9 kg) max

Mounting:
3/4" NPT - top

Patent pending



Dimensions in inches (mm)

Certifications & Ratings:

10 year warranty (excluding battery)

UL 1598/A	IP66/67
UL 924	NEMA 4X
UL 8750	L70 rated for >150,000 hours
CSA C22.2 No. 250.0	

Variable Dimming:

Variable Dimming Control:	0-10 VDC
Dimming Range:	10 VDC = 100% light output 0 VDC = <10% light output

Electrical Specifications:

Operating Voltage:	120-277 VAC
Total system power consumption:	See table
Operating Temp:	-4°F to +131°F (-20°C to+55°C)
Harmonics:	IEC 61000-3-2 Class C
EMC:	FCC Title 47, Subpart B, Section 15, class A device. RF Immunity; 10V/m, 80MHz-1GHz
Transient protection:	120-277 VAC models tested to withstand up to 6kV/3kA per IEEE C62.41.
THD:	<20%
Power Factor:	>0.9
Fusing:	Internal

Power Supply:

ALT: **(accelerated life testing)**	Over 15 yr equivalent at 24/7 service
MTBF: **(mean time between failures)**	Over 300 years with annual failure rate less than 0.3% expected
Driver:	Fully potted and sealed for superior protection

Construction:

Housing:	Copper free aluminum
Finish:	Superior dual coat finish Sealed polyester topcoat Chemical-resistant epoxy primer
Lens:	See table

Photometric Information:

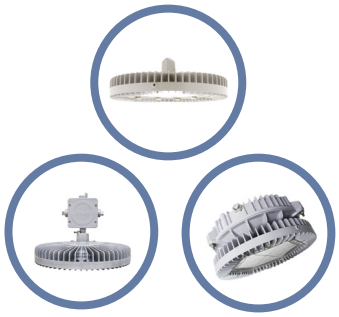
CRI:	80
CCT:	5000K (cool white) 4000K (neutral white)

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

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Vigilant® LED High Bay - UL / CSA

Ordering Information



Project Information		
Part Number:		
Project:		
Fixture Type:		Date:

Specifications

Ordering Information

	-	U	-		-		-		-		-		-		-	N	-	G	-	
Product Code		Cert.		Lens Material		Beam Dist.		CCT & CRI		Oper. Voltage		Lumen Type		Controls		Mounting Options		Power Cable		Elect. Access.		Coatings		Battery

Product Code

HC	High Bay Integrated Pendant Wiring Box
HE	High Bay 3/4" NPT

Certification

U	UL 1598/A, CSA

Lens Material

2	Acrylic - Clear (dry location only)
4	Polycarbonate - Clear
7	Glass - Clear
L	Polycarbonate Dome - Diffused
R	Power Wash Glass, Clear

Beam Distribution

E	Oval
M	Medium
N	Narrow
W	Wide

CCT & CRI

C	Cool White 5000K - 80 CRI
N	Neutral White 4000K - 80 CRI

Operating Voltage

2	100-277 VAC / 120-250 VDC
5	347-480 VAC

Lumen Type

A	11,600 Lumens
B	14,900 Lumens
C	19,800 Lumens
E	27,500 Lumens

Controls

D	Dimming (0-10V)
N	No Dimming (HE only)
M	Occupancy Sensor (HC only)

Mounting Options

H	Hook
N	Pendant 3/4" NPT
P	Pendant 3/4" NPT with Safety Retention Tabs
R	Safety Retention Tabs with Hook

Power Cable

N	No Cord
W	10' [3 meter] Power Cable (HE only)

Electrical Accessories

N	No Plug

Coatings

G	Gray (RAL 7040)

Battery

G	Battery Backup - 10W[4]
H	Battery Backup - 20W[4]
N	No Option

Notes

1) Lumen type based on using a glass lens. See tables for lumens when changing lenses.
2) When ordering occupancy sensor, use prefix **HC**.
3) When ordering option **HC**, Controls = (**D**) Dimming or (**M**) Occupancy Sensor.
4) Battery Backup only available with Product Code = (**HE**) and Operating Volage = (**2**).

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Ordering Information

Vigilant® LED High Bay - Corded Model



Corded Model - 3/4" Conduit - 100-277 VAC / 120-250 VDC								
Part Number	Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution	Hardware Options	Wiring
HEU-7MC2-ENNW-NGN	27,500	185	149	CW	Glass - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-7MC2-ENPW-NGN	27,500	185	149	CW	Glass - Clear	Medium	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
HEU-7MC2-EDNW-NGN	27,500	185	149	CW	Glass - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-4MC2-ENNW-NGN	27,200	185	147	CW	Polycarbonate - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-2MC2-ENNW-NGN	27,200	185	147	CW	Acrylic - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-LMC2-ENNW-NGN	27,000	185	146	CW	Polycarbonate Dome - Diffused	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-2WC2-ENNW-NGN	27,000	185	146	CW	Acrylic - Clear	Wide	Pendant 3/4" NPT	10' Power Cable
HEU-7MC2-CNNW-NGN	19,800	130	152	CW	Glass - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-7MC2-CNPW-NGN	19,800	130	152	CW	Glass - Clear	Medium	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
HEU-7MC2-CDNW-NGN	19,800	130	152	CW	Glass - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-4MC2-CNNW-NGN	19,600	130	151	CW	Polycarbonate - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-LMC2-CNNW-NGN	19,400	130	149	CW	Polycarbonate Dome - Diffused	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-7MN2-CNNW-NGN	19,400	130	149	NW	Glass - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-7MC2-BNNW-NGN	14,900	100	149	CW	Glass - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-4MC2-BNNW-NGN	14,800	100	148	CW	Polycarbonate - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-LMC2-BNPW-NGN	14,600	100	146	CW	Polycarbonate Dome - Diffused	Medium	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
HEU-LMC2-BNNW-NGN	14,600	100	146	CW	Polycarbonate Dome - Diffused	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-7MC2-ANNW-NGN	11,600	80	145	CW	Glass - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-4MC2-ANNW-NGN	11,500	80	144	CW	Polycarbonate - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-2MC2-ANNW-NGN	11,500	80	144	CW	Acrylic - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-LMC2-ANNW-NGN	11,400	80	143	CW	Polycarbonate Dome - Diffused	Medium	Pendant 3/4" NPT	10' Power Cable
Corded Model - 3/4" Conduit - 347-480 VAC								
HEU-7MC5-EDNW-NGN	27,500	185	149	CW	Glass - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-7MC5-ENNW-NGN	27,500	185	149	CW	Glass - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-7MC5-ENPW-NGN	27,500	185	149	CW	Glass - Clear	Medium	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
HEU-4MC5-ENPW-NGN	27,200	185	147	CW	Polycarbonate - Clear	Medium	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
HEU-7WC5-ENPW-NGN	27,200	185	147	CW	Glass - Clear	Wide	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
HEU-7EC5-ENNW-NGN	25,900	185	140	CW	Glass - Clear	Oval	Pendant 3/4" NPT	10' Power Cable
HCU-4EC5-EMNW-NGN	25,600	185	138	CW	Polycarbonate - Clear	Oval	Pendant 3/4" NPT	10' Power Cable
HEU-7MC5-CDNW-NGN	19,800	130	152	CW	Glass - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-7MC5-CNHW-NGN	19,800	130	152	CW	Glass - Clear	Medium	Hook	10' Power Cable
HEU-7MC5-CNNW-NGN	19,800	130	152	CW	Glass - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-LMC5-CNNW-NGN	19,400	130	149	CW	Polycarbonate Dome - Diffused	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-7MC5-BNNW-NGN	14,900	100	149	CW	Glass - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-7MC5-ADNW-NGN	11,600	80	145	CW	Glass - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-7MC5-ANNW-NGN	11,600	80	145	CW	Glass - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-4MC5-ADNW-NGN	11,500	80	144	CW	Polycarbonate - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HEU-LMC5-ANNW-NGN	11,400	80	143	CW	Polycarbonate Dome - Diffused	Medium	Pendant 3/4" NPT	10' Power Cable

All values typical unless otherwise stated (tolerance +/- 10%)
0-10V dimming option available for products in the above table. Replace the ninth character N with D. Ex: HEU-7MC2-ENNW-NGN becomes HEU-7MC2-EDNW-NGN.
Acrylic lens is dry location only.

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Ordering Information

Vigilant® LED High Bay - Integrated Wiring Box Model



Integrated Wiring Box Model - 3/4" Conduit - 100-277 VAC / 120-250 VDC								
Part Number	Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution	Hardware Options	Wiring
HCU-7MC2-EDNN-NGN	27,500	185	149	CW	Glass - Clear	Medium	Wiring Box	Wiring Box
HCU-7MC2-EMNN-NGN	27,500	185	149	CW	Glass - Clear	Medium	Wiring Box	Wiring Box
HCU-LMC2-EMNN-NGN	27,000	185	146	CW	Polycarbonate Dome - Diffused	Medium	Wiring Box	Wiring Box
HCU-LMC2-EDNN-NGN	27,000	185	146	CW	Polycarbonate Dome - Diffused	Medium	Wiring Box	Wiring Box
HCU-7MC2-CDNN-NGN	19,800	130	152	CW	Glass - Clear	Medium	Wiring Box	Wiring Box
HCU-7MC2-CMNN-NGN	19,800	130	152	CW	Glass - Clear	Medium	Wiring Box	Wiring Box
HCU-LMC2-CDNN-NGN	19,400	130	149	CW	Polycarbonate Dome - Diffused	Medium	Wiring Box	Wiring Box
HCU-LMC2-CMNN-NGN	19,400	130	149	CW	Polycarbonate Dome - Diffused	Medium	Wiring Box	Wiring Box
HCU-7MC2-BDNN-NGN	14,900	100	149	CW	Glass - Clear	Medium	Wiring Box	Wiring Box
HCU-7MC2-BMNN-NGN	14,900	100	149	CW	Glass - Clear	Medium	Wiring Box	Wiring Box
HCU-LMC2-BDNN-NGN	14,600	100	146	CW	Polycarbonate Dome - Diffused	Medium	Wiring Box	Wiring Box
HCU-LMC2-BMNN-NGN	14,600	100	146	CW	Polycarbonate Dome - Diffused	Medium	Wiring Box	Wiring Box
HCU-7MC2-ADNN-NGN	11,600	80	145	CW	Glass - Clear	Medium	Wiring Box	Wiring Box
HCU-7MC2-AMNN-NGN	11,600	80	145	CW	Glass - Clear	Medium	Wiring Box	Wiring Box
HCU-LMC2-ADNN-NGN	11,400	80	143	CW	Polycarbonate Dome - Diffused	Medium	Wiring Box	Wiring Box
HCU-LMC2-AMNN-NGN	11,400	80	143	CW	Polycarbonate Dome - Diffused	Medium	Wiring Box	Wiring Box

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

Vigilant® LED High Bay - Battery Backup Model



Battery Backup Model - 20W - 120-277 VAC								
Part Number	Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution	Hardware Options	Wiring
HEU-7MC2-ENNN-NGH	27,500	191	144	CW	Glass - Clear	Medium	Pendant 3/4" NPT	Wiring Box
HEU-7MC2-ENHN-NGH	27,500	191	144	CW	Glass - Clear	Medium	Hook	Wiring Box
HEU-4MC2-ENNN-NGH	27,200	191	142	CW	Polycarbonate - Clear	Medium	Pendant 3/4" NPT	Wiring Box
HEU-7MC2-CNNN-NGH	19,800	136	146	CW	Glass - Clear	Medium	Pendant 3/4" NPT	Wiring Box
HEU-4MC2-CNNN-NGH	19,600	136	144	CW	Polycarbonate - Clear	Medium	Pendant 3/4" NPT	Wiring Box
HEU-LMC2-CNNN-NGH	19,400	136	143	CW	Polycarbonate Dome - Diffused	Medium	Pendant 3/4" NPT	Wiring Box
HEU-7MC2-BNNN-NGH	14,900	106	141	CW	Glass - Clear	Medium	Pendant 3/4" NPT	Wiring Box
HEU-4MC2-BNNN-NGH	14,700	106	139	CW	Polycarbonate - Clear	Medium	Pendant 3/4" NPT	Wiring Box
HEU-LMC2-BNNN-NGH	14,600	106	138	CW	Polycarbonate Dome - Diffused	Medium	Pendant 3/4" NPT	Wiring Box
HEU-7MC2-ANNN-NGH	11,600	86	135	CW	Glass - Clear	Medium	Pendant 3/4" NPT	Wiring Box
HEU-4MC2-ANNN-NGH	11,500	86	134	CW	Polycarbonate - Clear	Medium	Pendant 3/4" NPT	Wiring Box
HEU-LMC2-ANNN-NGH	11,400	86	133	CW	Polycarbonate Dome - Diffused	Medium	Pendant 3/4" NPT	Wiring Box

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Corded Model & Integrated Wiring Box Model

Corded Model



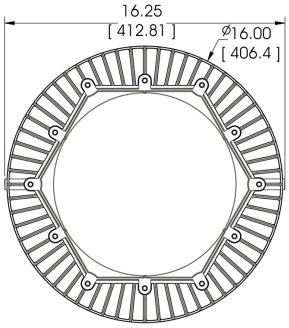
Mechanical Information:

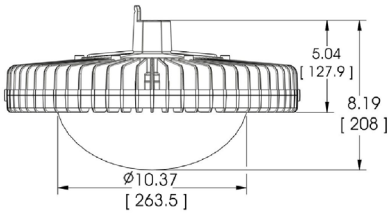
Fixture weight:
18 lbs (8.16kg)

Shipping weight:
24 lbs (10.8kg)

Mounting:
3/4" NPT - top
Various Kits

Power Cord:
10' 18 AWG STOOW/SOOW





Integrated Wiring Box Model



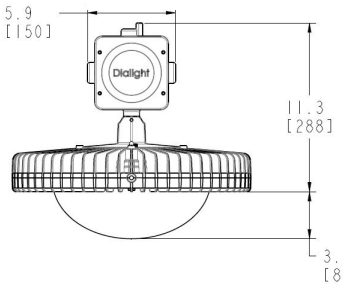
Mechanical Information:

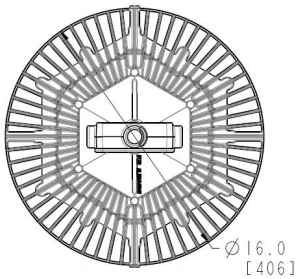
Fixture weight:
20 lbs (9 kg)

Shipping weight:
26 lbs (12 kg)

Mounting:
3/4" NPT or Hook
Various Kits

Wiring Box Cable Entries:
(2x) 3/4" NPT





Dimensions in inches (mm)

Certifications & Ratings:

10 year warranty
UL 1598/A
UL 8750
IP66/67
CSA C22.2 No. 250.0
NEMA 4X
L70 rated for >150,000 hours

Variable Dimming:

Variable Dimming Control: 0-10 VDC

Dimming Range: 10 VDC = 100% light output
0 VDC = <10% light output

Occupancy Sensor:

Mounting Height: Up to 40ft
Ingress Protection: IP66

Electrical Specifications:

Operating Voltage:	100-277 VAC (120-250 VDC) 347-480 VAC
Total system power consumption:	See table
Operating Temp:	-40°F to +149°F (-40°C to+65°C
Harmonics:	IEC 61000-3-2 Class C
EMC:	FCC Title 47, Subpart B, Section 15, class A device. RF Immunity; 10V/m, 80MHz-1GHz
Transient protection:	100-277 VAC models tested to withstand up to 8kV/4kA per IEEE C62.41 347-480VAC models tested to withstand up to 6kV/3kA per IEEE C62.41
THD:	6k-18k lm models: <20% 4k lm models: <30%
Power Factor:	>0.9
Fusing:	Internal

Power Supply:

ALT: (accelerated life testing)	Over 15 yr equivalent at 24/7 service
MTBF: (mean time between failures)	Over 300 years with annual failure rate less than 0.3% expected
Driver:	Fully potted and sealed for superior protection

Construction:

Housing:	Copper free aluminum
Finish:	Superior dual coat finish Sealed polyester topcoat Chemical-resistant epoxy primer
Lens:	See table
Vibration:	Up to 5G @ 10-150Hz for 750,000 cycles, per IEC 60068-2-6 for luminaire only
Shock:	50G half-sine for 3 cycles, per IEC 60068-2-27 for luminaire only

Photometric Information:

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

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

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Vigilant® LED Low Bay - UL / CSA

Battery Backup Model



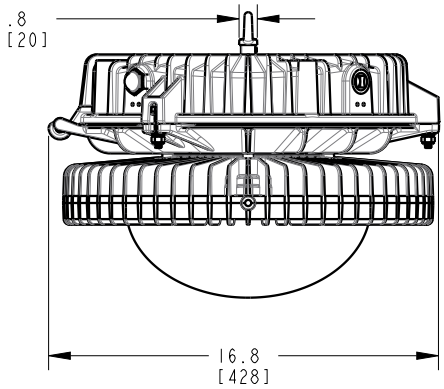
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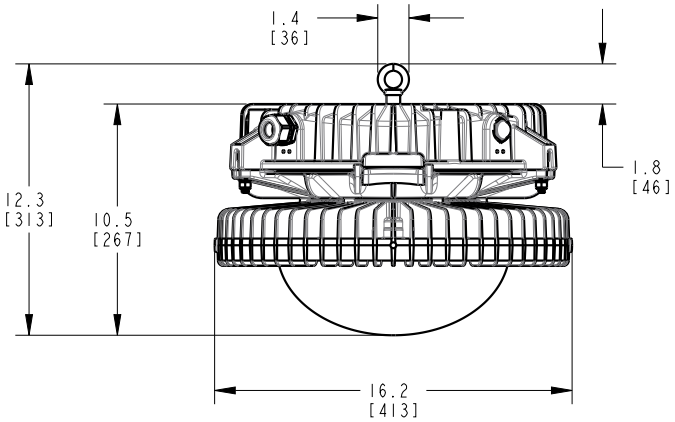
Fixture weight:
39 lbs (17.7 kg) max

Shipping weight:
46 lbs (20.9 kg) max

Mounting:
3/4" NPT - top

Patent pending





Dimensions in inches (mm)

Certifications & Ratings:

10 year warranty (excluding battery)

UL 1598/A	IP66/67
UL 924	NEMA 4X
UL 8750	L70 rated for >150,000 hours
CSA C22.2 No. 250.0	

Variable Dimming:

Variable Dimming Control:	0-10 VDC
Dimming Range:	10 VDC = 100% light output 0 VDC = <10% light output

Electrical Specifications:

Operating Voltage:	120-277 VAC
Total system power consumption:	See table
Operating Temp:	-4°F to +131°F (-20°C to+55°C)
Harmonics:	IEC 61000-3-2 Class C
EMC:	FCC Title 47, Subpart B, Section 15, class A device. RF Immunity; 10V/m, 80MHz-1GHz
Transient protection:	120-277 VAC models tested to withstand up to 6kV/3kA per IEEE C62.41
THD:	6k-18k lm models: <20% 4k lm models: <30%
Power Factor:	>0.9
Fusing:	Internal

Power Supply:

ALT: **(accelerated life testing)**	Over 15 yr equivalent at 24/7 service
MTBF: **(mean time between failures)**	Over 300 years with annual failure rate less than 0.3% expected
Driver:	Fully potted and sealed for superior protection

Construction:

Housing:	Copper free aluminum
Finish:	Superior dual coat finish Sealed polyester topcoat Chemical-resistant epoxy primer
Lens:	See table

Photometric Information:

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

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

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Vigilant® LED Low Bay - UL / CSA

Corded & Integrated Wiring Box



Project Information		
Part Number:		
Project:		
Fixture Type:		Date:

Specifications

Ordering Information

	-	U	-		-	U	-		-		-		-		-		-		-	N	-	G	-	
Product Code		Cert.		Lens Material		Beam Dist.		CCT & CRI		Oper. Voltage		Lumen Type		Controls		Mounting Options		Power Cable		Elect. Access.		Coatings		Battery

Product Code

LC	Low Bay Integrated Wiring Box
LE	Low Bay

Certification

U	UL 1598/A

Lens Material

2	Acrylic - Clear (dry location only)
3	Acrylic - Diffused (dry location only)
4	Polycarbonate - Clear
5	Polycarbonate - Diffused
L	Polycarbonate Dome - Diffused

Beam Distribution

U	Ultra Wide

CCT & CRI

C	Cool White 5000K - 80 CRI
N	Neutral White 4000K - 80 CRI

Operating Voltage

2	100-277 VAC / 120-250 VDC
5	347-480 VAC

Lumen Type

4	3,900 Lumens (100-277V only)
6	6,400 Lumens (100-277V only)
9	9,200 Lumens
B	13,200 Lumens
C	17,200 Lumens

Controls

D	Dimming (0-10V)
M	Occupancy Sensor (LC only)
N	No Option (LE only)

Mounting Options

H	Hook
N	Pendant 3/4" NPT
P	Pendant 3/4" NPT with Safety Retention Tabs
R	Safety Retention Tabs with Hook

Power Cable

N	No Cord
W	10' [3 meter] Power Cable (LE only)

Electrical Accessories

N	No Plug

Coatings

G	Gray (RAL 7040)

Battery

G	Battery Backup - 10W[4]
H	Battery Backup - 20W[4]
N	No Option

Notes

1) Lumen type based on using a polycarbonate dome lens. See tables for lumens when changing lenses.
2) Acrylic lens dry location only.
3) When ordering occupancy sensor, use prefix **LC**.
4) Battery Backup only available with Product Code = (**LE**) and Operating Volage = (**2**).

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Ordering Information

Vigilant® LED Low Bay - Corded Model



Corded Model - 3/4” Conduit - 100-277 VAC / 120-250 VDC								
Part Number	Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution	Hardware Options	Power Cable
LEU-LUC2-9NNW-NGN	9,200	78	118	CW	Polycarbonate Dome - Diffused	Ultra Wide	Pendant 3/4" NPT	10' Power Cable
LEU-LUC2-9NPW-NGN	9,200	78	118	CW	Polycarbonate Dome - Diffused	Ultra Wide	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
LEU-LUC2-6NNW-NGN	6,400	50	128	CW	Polycarbonate Dome - Diffused	Ultra Wide	Pendant 3/4" NPT	10' Power Cable
LEU-LUC2-4NNW-NGN	3,900	38	103	CW	Polycarbonate Dome - Diffused	Ultra Wide	Pendant 3/4" NPT	10' Power Cable
Corded Model - 3/4” Conduit - 347-480 VAC								
LEU-LUC5-9NNW-NGN	9,200	78	118	CW	Polycarbonate Dome - Diffused	Ultra Wide	Pendant 3/4" NPT	10' Power Cable
LEU-LUC5-9DNW-NGN	9,200	78	118	CW	Polycarbonate Dome - Diffused	Ultra Wide	Pendant 3/4" NPT	10' Power Cable

All values typical unless otherwise stated (tolerance +/- 10%)
0-10V dimming option available for products in the above table. Replace the ninth character N with D. Ex: LEU-LUC2-9NNW-NGN becomes LEU-LUC2-9DNW-NGN.

Vigilant® LED Low Bay - Integrated Wiring Box Model



Integrated Wiring Box Model - 100-277 VAC / 120-250 VDC								
Part Number	Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution	Hardware Options	Power Cable
LCU-LUC2-9DNW-NGN	9,200	78	118	CW	Polycarbonate Dome - Diffused	Ultra Wide	Wiring Box	Wiring Box
LCU-LUC2-6MNW-NGN	6,400	50	128	CW	Polycarbonate Dome - Diffused	Ultra Wide	Wiring Box	Wiring Box
LCU-LUC2-4MNW-NGN	3,900	38	103	CW	Polycarbonate Dome - Diffused	Ultra Wide	Wiring Box	Wiring Box

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

Vigilant® LED Low Bay - Battery Backup Model



Battery Backup Model - 10W - 120-277 VAC								
Part Number	Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution	Hardware Options	Power Cable
LEU-LUC2-9NNN-NGG	9,200	84	110	CW	Polycarbonate Dome - Diffused	Ultra Wide	Pendant 3/4" NPT	Wiring Box
LEU-LUC2-6NNN-NGG	6,400	56	114	CW	Polycarbonate Dome - Diffused	Ultra Wide	Pendant 3/4" NPT	Wiring Box
LEU-LUC2-4NNN-NGG	3,900	44	89	CW	Polycarbonate Dome - Diffused	Ultra Wide	Pendant 3/4" NPT	Wiring Box

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

Specification sheets with additional options available, with extended lead times, are available on page 12

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SafeSite® LED High Bay - UL / CSA

Class I, Div. 1 and Class I, Zone 1



Mechanical Information:

Fixture weight:
30 lbs (14 kg)

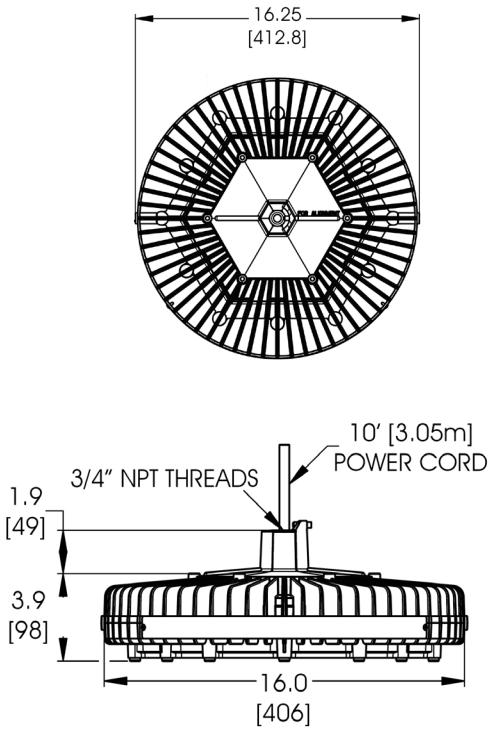
Shipping weight:
35 lbs (19 kg)

Mounting:
3/4" NPT - top
Various Kits

Power Cord:
10' 18 AWG STOOW/SOOW

Class I, Div. 1 Groups C, D
Class I, Div. 1 Groups B, C, D
Class I Zone 1, Groups IIB
Class I, Div. 2 Groups C, D
Class II, Div. 1 Groups E, F, G
Class II, Div. 2 Groups F, G

*Group B applies to HEP models only



Dimensions in inches (mm)

Temperature Ratings:

Ambient Temp Range T4 Temp Code:	-40°F to +149°F (-40°C to +65°C)
Ambient Temp Range T5 Temp Code:	-40°F to +131°F (-40°C to +50°C)

Certifications & Ratings:

10 year warranty
UL 844 (wet locations)
CSA 22.2 No. 137
IP66/67
Factory sealed

NEMA 4X
UL 8750
L70 rated for >150,000 hours

Variable Dimming:

Variable Dimming Control:	0-10 VDC
Dimming Range:	10 VDC = 100% light output 0 VDC = <10% light output

Electrical Specifications:

Operating voltage:	100-277 VAC, 120-250 VDC 347-480 VAC
Power consumption:	See table
Operating temp:	-40°F to +149°F (-40°C to +65°C)
Harmonics:	IEC 61000-3-2 Class C
EMC:	FCC Title 47, Subpart B, Section 15, Class A device. RF Immunity; 10V/m, 80MHz-1GHz
Transient protection:	100-277 VAC models tested to withstand up to 8kV/4kA per IEEE C62.41 347-480VAC models tested to withstand up to 6kV/3kA per IEEE C62.41
THD:	< 20%
Power factor:	>0.9
Cabling:	STOOW 18 gauge AWG
Fusing:	Internal

Power Supply:

ALT: **(accelerated life testing)**	Over 15 yr equivalent at 24/7 service
MTBF: **(mean time between failures)**	Over 300 years with annual failure rate less than 0.3% expected
Driver:	Fully potted and sealed for superior protection

Construction:

Housing:	Copper free aluminum
Finish:	Superior dual coat finish Sealed polyester topcoat Chemical-resistant epoxy primer
Lens:	See table
Vibration:	Up to 5G @ 10-150Hz for 750,000 cycles, per IEC 60068-2-6 for luminaire only
Shock:	50G half-sine for 3 cycles, per IEC 60068-2-27 for luminaire only

Photometric Information:

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

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

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SafeSite® LED High Bay - UL / CSA

Class I, Div. 1 and Class I, Zone 1



Project Information		
Part Number:		
Project:		
Fixture Type:		Date:

Specifications

Ordering Information

HE	-		-	7	-		-		-	2	-		-		-		-	W	-	N	-	G	-	N
Product Code		Cert.		Lens Material		Beam Dist.		CCT & CRI		Oper. Voltage		Lumen Type		Controls		Mounting Options		Power Cable		Elect. Access.		Coatings		Battery

Product Code

HE	High Bay 3/4" NPT

Certification

C	UL 844, CID1, Class I, Zone 1
M	UL 844, CID1 Paint Spray Class I, Zone 1
P	UL 844, CID1 Group B, Class I, Zone 1

Lens Material

7	Glass - Clear

Beam Distribution

E	Oval
M	Medium
N	Narrow
W	Wide

CCT & CRI

C	Cool White 5000K - 80 CRI
N	Neutral White 4000K - 80 CRI

Operating Voltage

2	100-277 VAC / 120-250 VDC
5	347-480 VAC

Lumen Type

A	10,950 Lumens
B	14,000 Lumens
C	18,600 Lumens
E	25,900 Lumens

Controls

D	Dimming (0-10V)
N	No Option

Mounting Options

N	Pendant 3/4" NPT
P	Pendant 3/4" NPT with Safety Retention Tabs

Power Cable

W	10' [3 meter] Power Cable

Electrical Accessories

N	No Plug

Coatings

G	Gray (RAL 7040)

Battery

N	No Option

Notes

1) Lumen type based on using a glass lens. See tables for lumens when changing lenses.

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Ordering Information

SafeSite® LED High Bay

Class I, Div. 1 and Class I, Zone 1



Part Number	Lumens	Wattage	lm/W	Certification	CCT	Lens	Beam DIstribution	Controls Option	Hardware Options	Wiring
Class I, Div. 1 and Class I, Zone 1 - 100-277 VAC										
HEC-7WC2-ENNW-NGN	25,900	185	140	CID1	CW	Tempered Glass	Wide	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7MC2-ENPW-NGN	25,900	185	140	CID1	CW	Tempered Glass	Medium	No controls	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
HEM-7MC2-ENNW-NGN	25,900	185	140	Paint Spray	CW	Tempered Glass	Medium	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7MC2-CNNW-NGN	18,600	130	143	CID1	CW	Tempered Glass	Medium	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7WC2-CNVW-NGN	18,600	130	143	CID1	CW	Tempered Glass	Wide	No controls	Safety Bracket w/ SS 316 Forward Throw Bracket	10' Power Cable
HEC-7MC2-CNPW-NGN	18,600	130	143	CID1	CW	Tempered Glass	Medium	No controls	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
HEC-7WC2-CNTW-NGN	18,600	130	143	CID1	CW	Tempered Glass	Wide	No controls	Safety Bracket w/ Locking Swivel Mount/Bracket SS316	10' Power Cable
HEC-7WC2-CNNW-NGN	18,600	130	143	CID1	CW	Tempered Glass	Wide	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7WC2-CNPW-NGN	18,600	130	143	CID1	CW	Tempered Glass	Wide	No controls	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
HEM-7MC2-CNNW-NGN	18,600	130	143	Paint Spray	CW	Tempered Glass	Medium	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7MC2-BNNW-NGN	14,000	100	140	CID1	CW	Tempered Glass	Medium	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7WC2-BNPW-NGN	14,000	100	140	CID1	CW	Tempered Glass	Wide	No controls	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
HEM-7WC2-BNNW-NGN	14,000	100	140	Paint Spray	CW	Tempered Glass	Wide	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7WC2-BNNW-NGN	14,000	100	140	CID1	CW	Tempered Glass	Wide	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7MC2-BNPW-NGN	14,000	100	140	CID1	CW	Tempered Glass	Medium	No controls	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
HEM-7WN2-ANNW-NGN	10,950	80	137	Paint Spray	NW	Tempered Glass	Wide	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7MC2-ANNW-NGN	10,950	80	137	CID1	CW	Tempered Glass	Medium	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7WC2-ANNW-NGN	10,950	80	137	CID1	CW	Tempered Glass	Wide	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7MN2-ANNW-NGN	10,700	80	137	CID1	NW	Tempered Glass	Medium	No controls	Pendant 3/4" NPT	10' Power Cable
Class I, Div. 1 and Class I, Zone 1 - 347-480 VAC										
HEC-7MC5-ENNW-NGN	25,900	185	140	CID1	CW	Tempered Glass	Medium	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7MC5-CNNW-NGN	18,600	130	143	CID1	CW	Tempered Glass	Medium	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7MC5-BNNW-NGN	14,000	100	140	CID1	CW	Tempered Glass	Medium	No controls	Pendant 3/4" NPT	10' Power Cable
HEC-7MC5-ANNW-NGN	10,950	80	137	CID1	CW	Tempered Glass	Medium	No controls	Pendant 3/4" NPT	10' Power Cable

All values typical unless otherwise stated (tolerance +/- 10%)
0-10V dimming option available for products in the above table. Replace the ninth character N with D. Ex: HEC-7WC2-ENNW-NGN becomes HEC-7WC2-EDNW-NGN.

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SafeSite® LED High Bay - UL / CSA

Class I, Div. 2 and Class I, Zone 2

Corded Model



Mechanical Information:

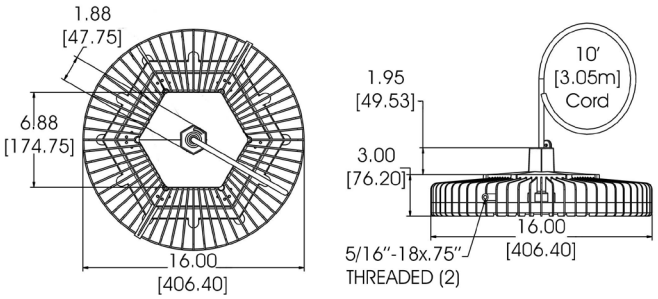
Fixture weight:
18 lbs (8.16kg)

Shipping weight:
24 lbs (10.8kg)

Mounting:
3/4" NPT - top
Various Kits

Power Cord:
10' 18 AWG STOOW/SOOW

Patent pending



Integrated Wiring Box Model



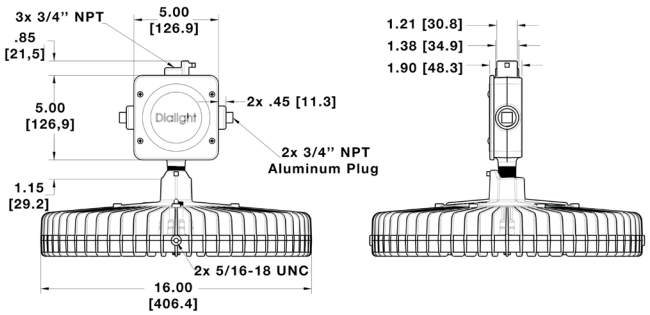
Mechanical Information:

Fixture weight:
20 lbs (9 kg)

Shipping weight:
26 lbs (12 kg)

Mounting:
3/4" NPT or Hook

Wiring Box Cable Entries:
(2x) 3/4" NPT



Dimensions in inches (mm)

Temperature Ratings:

Ambient Temp Range T4 Temp Code:	-40°F to +149°F (-40°C to +65°C)
Ambient Temp Range T5 Temp Code:	-40°F to +122°F (-40°C to +50°C)

Certifications & Ratings:

10 year warranty
UL 844 (wet locations) — NEMA 4X
CSA 22.2 No. 137 — UL 8750
IP66/67 — L70 rated for >150,000 hours
Class I, Div. 2 Groups A, B, C, D
Class I, Zone 2, Group IIC
Class II, Div. 1 Groups E, F, G (corded model only)
Class II, Div. 2 Groups F, G
Class III, Div. 1 & 2

Variable Dimming:

Variable Dimming Control:	0-10 VDC
Dimming Range:	10 VDC = 100% light output 0 VDC = <10% light output

Electrical Specifications:

Operating voltage:	100-277 VAC, 120-250 VDC 347-480 VAC
Power consumption:	See table
Operating temp:	-40°F to +149°F (-40°C to +65°C)
Harmonics:	IEC 61000-3-2 Class C
EMC:	FCC Title 47, Subpart B, Section 15, Class A device. RF Immunity; 10V/m, 80MHz-1GHz
Transient protection:	100-277 VAC models tested to withstand up to 8kV/4kA per IEEE C62.41 347-480VAC models tested to withstand up to 6kV/3kA per IEEE C62.41
THD:	< 20%
Power factor:	>0.9
Fusing:	Internal

Power Supply:

ALT: (accelerated life testing)	Over 15 yr equivalent at 24/7 service
MTBF: (mean time between failures)	Over 300 years with annual failure rate less than 0.3% expected
Driver:	Fully potted and sealed for superior protection

Construction:

Housing:	Copper free aluminum
Finish:	Superior dual coat finish Sealed polyester topcoat Chemical-resistant epoxy primer
Lens:	See table
Vibration:	Up to 5G @ 10-150Hz for 750,000 cycles, per IEC 60068-2-6 for luminaire only
Shock:	50G half-sine for 3 cycles, per IEC 60068-2-27 for luminaire only

Photometric Information:

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

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

WARNING - INSTALLATION & SECONDARY RETENTION. Use of any Dialight products without proper installation (including secondary retention / netting) and periodic inspections could cause severe injury or death. Dialight recommends that all installations should use secondary retention / netting (appropriate to the installation environment) where applicable. It is the exclusive responsibility of the contractor, installer and/or end-user to: (a) determine the suitability of the product for its intended application; and, (b) ensure that the product is safely installed (with secondary retention / netting where appropriate) and in compliance with all applicable laws and regulations. To the extent permissible under applicable laws, Dialight disclaims all liability for personal injury and/or other damage resulting from any dislodgment or other dislocation of its products.

SafeSite® LED High Bay - UL / CSA

Battery Backup Model



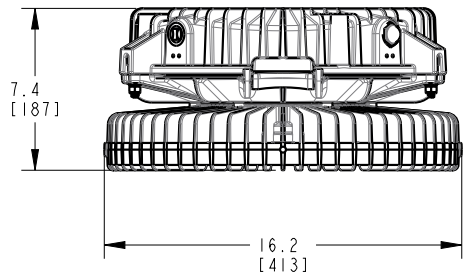
Mechanical Information:

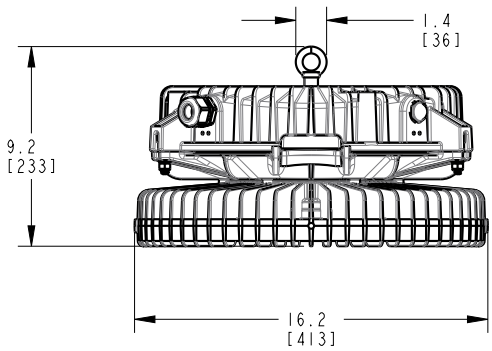
Fixture weight:
39 lbs (17.7 kg) max

Shipping weight:
46 lbs (20.9 kg) max

Mounting:
3/4" NPT - top

Patent pending





Dimensions in inches (mm)

Temperature Ratings:

Ambient Temp Range T4A Temp Code:	-4°F to +131°F (-20°C to +55°C)

Certifications & Ratings:

10 year warranty (excluding battery)

UL 844 (wet locations)	IP66/67
UL 924	NEMA 4X
UL 8750	L70 rated for >150,000 hours

CSA 22.2 No. 137
Class I, Div. 2 Groups A, B, C, D
Class I, Zone 2, Group IIC
Class II, Div. 1 Groups E, F, G
Class II, Div. 2 Groups F, G
Class III, Div. 1 & 2

Variable Dimming:

Variable Dimming Control:	0-10 VDC
Dimming Range:	10 VDC = 100% light output 0 VDC = <10% light output

Electrical Specifications:

Operating voltage:	120-277 VAC
Power consumption:	See table
Operating temp:	-4°F to +131°F (-20°C to +55°C)
Harmonics:	IEC 61000-3-2 Class C
EMC:	FCC Title 47, Subpart B, Section 15, Class A device. RF Immunity; 10V/m, 80MHz-1GHz
Transient protection:	120-277 VAC models tested to withstand up to 6kV/3kA per IEEE C62.41
THD:	< 20%
Power factor:	>0.9
Fusing:	Internal

Power Supply:

ALT: (accelerated life testing)	Over 15 yr equivalent at 24/7 service
MTBF: (mean time between failures)	Over 300 years with annual failure rate less than 0.3% expected
Driver:	Fully potted and sealed for superior protection

Construction:

Housing:	Copper free aluminum
Finish:	Superior dual coat finish Sealed polyester topcoat Chemical-resistant epoxy primer
Lens:	See table

Photometric Information:

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

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

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SafeSite® LED High Bay - UL / CSA

Ordering Information



Project Information		
Part Number:		
Project:		
Fixture Type:		Date:

Specifications

Ordering Information

	-	D	-		-		-		-		-		-		-		-		-	N	-	G	-	
Product Code		Cert.		Lens Material		Beam Dist.		CCT & CRI		Oper. Voltage		Lumen Type		Controls		Mounting Options		Power Cable		Elect. Access.		Coatings		Battery

Product Code

HC	High Bay Integrated Pendant Wiring Box
HE	High Bay 3/4" NPT

Certification

D	UL 844 CID2, CII, CIII Class I, Zone 2

Lens Material

4	Polycarbonate - Clear
7	Glass - Clear
L	Polycarbonate Dome - Diffused
R	Power Wash Glass, Clear

Beam Distribution

E	Oval
M	Medium
N	Narrow
W	Wide

CCT & CRI

C	Cool White 5000K - 80 CRI
N	Neutral White 4000K - 80 CRI

Operating Voltage

2	100-277 VAC / 120-250 VDC
5	347-480 VAC

Lumen Type

A	11,600 Lumens
B	14,900 Lumens
C	19,800 Lumens
E	27,500 Lumens

Controls

D	Dimming (0-10V)
N	No Option

Mounting Options

H	Hook (HC only)
N	Pendant 3/4" NPT
P	Pendant 3/4" NPT with Safety Retention Tabs
R	Safety Retention Tabs with Hook (HC only)

Power Cable

N	No Cord
W	10' [3 meter] Power Cable (HE only)

Electrical Accessories

N	No Plug

Coatings

G	Gray (RAL 7040)

Battery

G	Battery Backup - 10W[2]
H	Battery Backup - 20W[2]
N	No Option

Notes

1) Lumen type based on using a glass lens. See tables for lumens when changing lenses.

2) Battery Backup only available with Product Code = (**HE**) and Operating Volage = (**2**).

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Ordering Information

SafeSite® LED High Bay - Class I, Div. 2 and Class I, Zone 2



Corded Model - Class I, Div. 2 and Class I, Zone 2 - 100-277 VAC / 120-250 VDC								
Part Number	Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution	Hardware Options	Wiring
HED-7WC2-ENNW-NGN	27,200	185	147	CW	Glass - Clear	Wide	Pendant 3/4" NPT	10' Power Cable
HED-7MC2-ENPW-NGN	27,500	185	149	CW	Glass - Clear	Medium	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
HED-7WC2-ENPW-NGN	27,200	185	147	CW	Glass - Clear	Wide	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
HED-7WC2-ENTW-NGN	27,200	185	147	CW	Glass - Clear	Wide	HBXW3-SSL-316 Bracket with Safety Tabs	10' Power Cable
HED-7MC2-ENNW-NGN	27,500	185	149	CW	Glass - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HED-7WC2-ENVW-NGN	27,200	185	147	CW	Glass - Clear	Wide	HBXW3-SSL-316FT Bracket with Safety Tabs	10' Power Cable
HED-4MC2-ENNW-NGN	27,200	185	147	CW	Polycarbonate - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HED-7WC2-CNVW-NGN	19,600	130	151	CW	Glass - Clear	Wide	HBXW3-SSL-316FT Bracket with Safety Tabs	10' Power Cable
HED-7MC2-CNPW-NGN	19,800	130	152	CW	Glass - Clear	Medium	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
HED-7WC2-CNNW-NGN	19,600	130	151	CW	Glass - Clear	Wide	Pendant 3/4" NPT	10' Power Cable
HED-7WC2-CNTW-NGN	19,600	130	151	CW	Glass - Clear	Wide	HBXW3-SSL-316 Bracket with Safety Tabs	10' Power Cable
HED-4MC2-CNNW-NGN	19,600	130	151	CW	Polycarbonate - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HED-7MC2-CNNW-NGN	19,800	130	152	CW	Glass - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HED-7MC2-BNNW-NGN	14,900	100	149	CW	Glass - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HED-7WC2-BNPW-NGN	14,800	100	148	CW	Glass - Clear	Wide	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
HED-7MC2-BNPW-NGN	14,900	100	149	CW	Glass - Clear	Medium	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
HED-7MN2-BNPW-NGN	14,900	100	149	NW	Glass - Clear	Medium	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
HED-7WC2-BNNW-NGN	14,800	100	148	CW	Glass - Clear	Wide	Pendant 3/4" NPT	10' Power Cable
HED-4MC2-BNNW-NGN	14,800	100	148	CW	Polycarbonate - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HED-7MC2-ANNW-NGN	11,600	80	145	CW	Glass - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HED-7MC2-ANPW-NGN	11,600	80	145	CW	Glass - Clear	Medium	Pendant 3/4" NPT with Safety Tabs	10' Power Cable
HED-7WC2-ANNW-NGN	11,500	80	144	CW	Glass - Clear	Wide	Pendant 3/4" NPT	10' Power Cable
HED-4MC2-ANNW-NGN	11,500	80	144	CW	Polycarbonate - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HED-5MC2-ANNW-NGN	10,900	80	136	CW	Polycarbonate - Diffused	Medium	Pendant 3/4" NPT	10' Power Cable
Corded Model - Class I, Div. 2 and Class I, Zone 2 - 347-480 VAC								
HED-4MC5-EDNW-NGN	27,200	185	147	CW	Polycarbonate - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HED-7MC5-ENNW-NGN	27,500	185	149	CW	Glass - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HED-7MC5-CDNW-NGN	19,800	130	152	CW	Glass - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HED-7MC5-BDNW-NGN	14,900	100	149	CW	Glass - Clear	Medium	Pendant 3/4" NPT	10' Power Cable
HED-7MC5-ADNW-NGN	11,600	80	144	CW	Glass - Clear	Medium	Pendant 3/4" NPT	10' Power Cable

All values typical unless otherwise stated (tolerance +/- 10%)
0-10V dimming option available for products in the above table. Replace the ninth character **N** with **D**. Ex: HED-7MC2-E**N**NW-NGN becomes HED-7MC2-E**D**NW-NGN.

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Ordering Information

SafeSite® LED High Bay - Battery Backup Model



Battery Backup Model - 20W - 120-277 VAC								
Part Number	Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution	Hardware Options	Wiring
HED-7MC2-ENNN-NGH	27,500	191	144	CW	Glass - Clear	Medium	Pendant 3/4" NPT	Wiring Box
HED-7MC2-CNNN-NGH	19,800	136	146	CW	Glass - Clear	Medium	Pendant 3/4" NPT	Wiring Box
HED-7MC2-BNNN-NGH	14,900	106	141	CW	Glass - Clear	Medium	Pendant 3/4" NPT	Wiring Box
HED-7MC2-ANNN-NGH	11,600	86	135	CW	Glass - Clear	Medium	Pendant 3/4" NPT	Wiring Box

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

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SafeSite® LED Low Bay - UL / CSA

Corded Model & Integrated Wiring Box Model

Corded Model



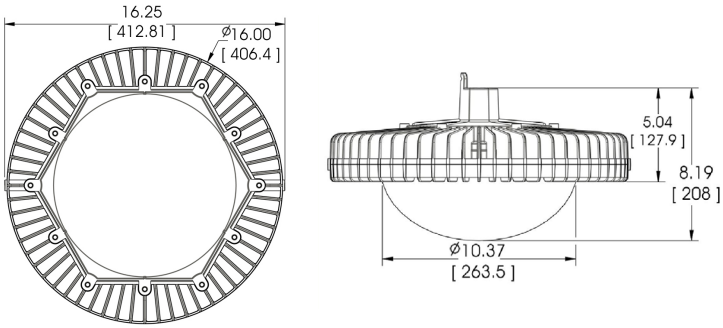
Mechanical Information:

Fixture weight:
18 lbs (8.16kg)

Shipping weight:
24 lbs (10.8kg)

Mounting:
3/4" NPT - top
Various Kits

Power Cord:
10' 18 AWG STOOW/SOOW



Integrated Wiring Box Model



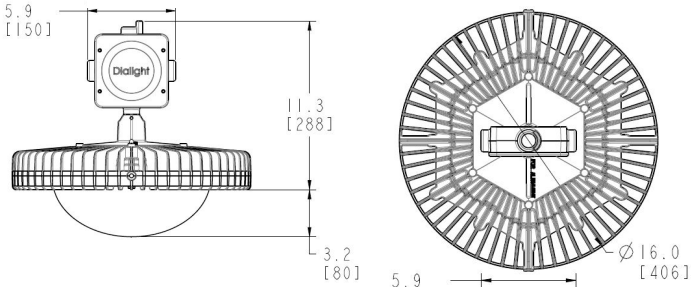
Mechanical Information:

Fixture weight:
20 lbs (9 kg)

Shipping weight:
26 lbs (12 kg)

Mounting:
3/4" NPT or Hook
Various Kits

Wiring Box Cable Entries:
(2x) 3/4" NPT



Dimensions in inches (mm)

Temperature Ratings:

Ambient temp range T4 temp code:	-40°F to +149°F (-40°C to +65°C)
Ambient temp range T5 temp code:	-40°F to +122°F (-40°C to +50°C)

Certifications & Ratings:

10 year warranty
UL 1598/A (wet locations)
UL 8750
IP66/67
Class I, Div. 2, Groups A, B, C, D
Class I, Zone 2, Group IIC
Class II, Div. 1 Groups E, F, G (corded model only)
Class II, Div. 2 Groups F, G
Class III, Div. 1 & 2
CSA C22.2 No. 250.0
NEMA 4X
L70 rated for >150,000 hours

Variable Dimming:

Variable Dimming Control:	0-10 VDC
Dimming Range:	10 VDC = 100% light output 0 VDC = <10% light output

Electrical Specifications:

Operating Voltage:	100-277 VAC (120-250 VDC) 347-480 VAC
Total system power consumption:	See table
Operating Temp:	-40°F to +149°F (-40°C to+65°C)
Harmonics:	IEC 61000-3-2 Class C
EMC:	FCC Title 47, Subpart B, Section 15, class A device. RF Immunity; 10V/m, 80MHz-1GHz
Transient protection:	100-277 VAC models tested to withstand up to 8kV/4kA per IEEE C62.41 347-480VAC models tested to withstand up to 6kV/3kA per IEEE C62.41
THD:	6k-18k lm models: <20% 4k lm models: <30%
Power Factor:	>0.9
Fusing:	Internal

Power Supply:

ALT: (accelerated life testing)	Over 15 yr equivalent at 24/7 service
MTBF: (mean time between failures)	Over 300 years with annual failure rate less than 0.3% expected
Driver:	Fully potted and sealed for superior protection

Construction:

Housing:	Copper free aluminum
Finish:	Superior dual coat finish Sealed polyester topcoat Chemical-resistant epoxy primer
Lens:	See table
Vibration:	Up to 5G @ 10-150Hz for 750,000 cycles, per IEC 60068-2-6 for luminaire only
Shock:	50G half-sine for 3 cycles, per IEC 60068-2-27 for luminaire only

Photometric Information:

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

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

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SafeSite® LED Low Bay - UL / CSA

Battery Backup Model



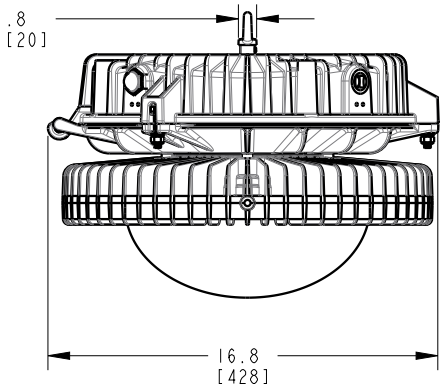
Mechanical Information:

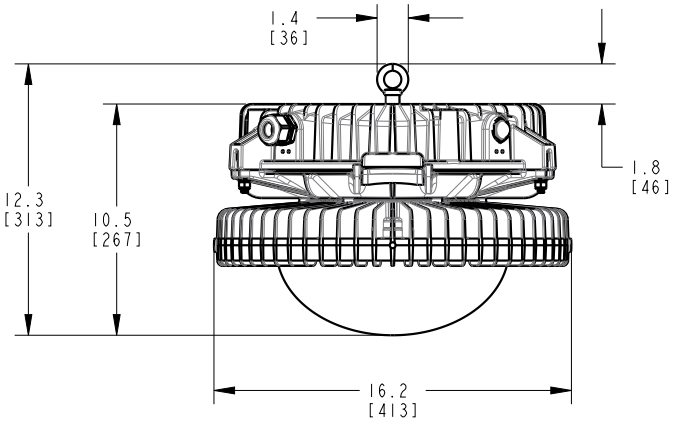
Fixture weight:
39 lbs (17.7 kg) max

Shipping weight:
46 lbs (20.9 kg) max

Mounting:
3/4" NPT - top

Patent pending





Dimensions in inches (mm)

Temperature Ratings:

Ambient temp range T4A temp code:	-4°F to +131°F (-20°C to +55°C)

Certifications & Ratings:

10 year warranty (excluding battery)

UL 1598/A (wet locations)	IP66/67
UL 924	NEMA 4X
UL 8750	L70 rated for >150,000 hours

CSA C22.2 No. 250.0
Class I, Div. 2, Groups A, B, C, D
Class I, Zone 2, Group IIC
Class II, Div. 1 Groups E, F, G
Class II, Div. 2 Groups F, G
Class III, Div. 1 & 2

Variable Dimming:

Variable Dimming Control:	0-10 VDC
Dimming Range:	10 VDC = 100% light output 0 VDC = <10% light output

Electrical Specifications:

Operating Voltage:	120-277 VAC
Total system power consumption:	See table
Operating Temp:	-40°F to +131°F (-40°C to+55°C)
Harmonics:	IEC 61000-3-2 Class C
EMC:	FCC Title 47, Subpart B, Section 15, class A device. RF Immunity; 10V/m, 80MHz-1GHz
Transient protection:	120-277 VAC models tested to withstand up to 6kV/3kA per IEEE C62.41
THD:	6k-18k lm models: <20% 4k lm models: <30%
Power Factor:	>0.9
Fusing:	Internal

Power Supply:

ALT: (accelerated life testing)	Over 15 yr equivalent at 24/7 service
MTBF: (mean time between failures)	Over 300 years with annual failure rate less than 0.3% expected
Driver:	Fully potted and sealed for superior protection

Construction:

Housing:	Copper free aluminum
Finish:	Superior dual coat finish Sealed polyester topcoat Chemical-resistant epoxy primer
Lens:	See table

Photometric Information:

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

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

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SafeSite® LED Low Bay - UL / CSA

Ordering Information



Project Information		
Part Number:		
Project:		
Fixture Type:		Date:

Specifications

Ordering Information

	-	D	-		-	U	-		-		-		-		-		-		-		-	N	-	G	-	N
Product Code		Cert.		Lens Material		Beam Dist.		CCT & CRI		Oper. Voltage		Lumen Type		Controls		Mounting Options		Power Cable		Elect. Access.		Coatings		Battery		

Product Code

LC	Low Bay Integrated Wiring Box
LE	Low Bay

Certification

D	UL 844 CID2, CII, CIII Class I, Zone 2

Lens Material

4	Polycarbonate - Clear
5	Polycarbonate - Diffused
L	Polycarbonate Dome - Diffused

Beam Distribution

U	Ultra Wide

CCT & CRI

C	Cool White 5000K - 80 CRI
N	Neutral White 4000K - 80 CRI

Operating Voltage

2	100-277 VAC / 120-250 VDC
5	347-480 VAC

Lumen Type

4	3,900 Lumens (100-277V only)
6	6,400 Lumens (100-277V only)
9	9,200 Lumens
B	13,200 Lumens
C	17,200 Lumens

Controls

D	Dimming (0-10V)
N	No Option

Mounting Options

H	Hook (LC only)
N	Pendant 3/4" NPT
P	Pendant 3/4" NPT with Safety Retention Tabs
R	Safety Retention Tabs with Hook (LC only)

Power Cable

N	No Cord
W	10' [3 meter] Power Cable (LE only)

Electrical Accessories

N	No Plug

Coatings

G	Gray (RAL 7040)

Battery

G	Battery Backup - 10W[1]
H	Battery Backup - 20W[1]
N	No Option

Notes

1) Battery Backup only available with Product Code = (**LE**) and Operating Volage = (**2**).

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Ordering Information

SafeSite® LED High Bay - Corded & Integrated Wiring Box



Corded Model - Class I, Div. 2 - 100-277 VAC / 120-250 VDC								
Part Number	Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution	Hardware Options	Wiring
LED-LUC2-CNNW-NGN	17,200	150	115	CW	Polycarbonate Dome - Diffused	Ultra Wide	Pendant 3/4" NPT	10' Power Cable
LED-LUC2-BNNW-NGN	13,100	112	117	CW	Polycarbonate Dome - Diffused	Ultra Wide	Pendant 3/4" NPT	10' Power Cable
LED-LUC2-9NNW-NGN	9,200	78	118	CW	Polycarbonate Dome - Diffused	Ultra Wide	Pendant 3/4" NPT	10' Power Cable
LED-LUC2-6NNW-NGN	6,400	50	128	CW	Polycarbonate Dome - Diffused	Ultra Wide	Pendant 3/4" NPT	10' Power Cable
Corded Model - Class I, Div. 2 - 347-480 VAC								
LED-LUC5-CNNW-NGN	17,200	150	115	CW	Polycarbonate Dome - Diffused	Ultra Wide	Pendant 3/4" NPT	10' Power Cable
LED-LUC5-BNNW-NGN	13,100	112	117	CW	Polycarbonate Dome - Diffused	Ultra Wide	Pendant 3/4" NPT	10' Power Cable
LED-LUC5-9NNW-NGN	9,200	78	118	CW	Polycarbonate Dome - Diffused	Ultra Wide	Pendant 3/4" NPT	10' Power Cable

All values typical unless otherwise stated (tolerance +/- 10%)
0-10V dimming option available for products in the above table. Replace the ninth character N with D. Ex: LEU-LUC2-9NNW-NGN becomes LEU-LUC2-9DNW-NGN.

SafeSite® LED High Bay - Battery Backup Model



Battery Backup Model - 10W - 120-277 VAC								
Part Number	Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution	Hardware Options	Wiring
LED-LUC2-CNNN-NGG	17,200	156	110	CW	Polycarbonate Dome - Diffused	Ultra Wide	Pendant 3/4" NPT	Wiring Box
LED-LUC2-BNNN-NGG	13,100	118	111	CW	Polycarbonate Dome - Diffused	Ultra Wide	Pendant 3/4" NPT	Wiring Box
LED-LUC2-9NNN-NGG	9,200	84	110	CW	Polycarbonate Dome - Diffused	Ultra Wide	Pendant 3/4" NPT	Wiring Box
LED-LUC2-6NNN-NGG	6,400	56	114	CW	Polycarbonate Dome - Diffused	Ultra Wide	Pendant 3/4" NPT	Wiring Box

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

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Lumen Tables

Vigilant High Bay 100-277 VAC, 120-250 VDC and 347-480 VAC						
Output	Wattage	Lens	Lens Material	Lumens 5000K CCT	Lumens 4000K CCT	Lumens 2700K CCT
E	185	7, R	Glass	27,500	26,900	23,400
	185	2, T	Acrylic	27,200	26,600	23,100
	185	4, V	Polycarbonate	27,200	26,600	23,100
	185	3, U	Acrylic Diffused	27,000	26,400	23,000
	185	5, W	Polycarbonate Diffused	27,000	26,400	23,000
	185	L, Z	Polycarbonate Dome Diffused	26,700	26,100	22,700
	185	8, S	Glass Diffused	25,400	24,900	21,600
C	130	7, R	Glass	19,800	19,400	16,800
	130	2, T	Acrylic	19,600	19,200	16,700
	130	4, V	Polycarbonate	19,600	19,200	16,700
	130	3, U	Acrylic Diffused	19,400	19,000	16,500
	130	5, W	Polycarbonate Diffused	19,400	19,000	16,500
	130	L, Z	Polycarbonate Dome Diffused	19,200	18,800	16,300
	130	8, S	Glass Diffused	18,300	17,900	15,600
B	100	7, R	Glass	14,900	14,600	12,700
	100	2, T	Acrylic	14,800	14,500	12,600
	100	4, V	Polycarbonate	14,800	14,500	12,600
	100	3, U	Acrylic Diffused	14,600	14,300	12,400
	100	5, W	Polycarbonate Diffused	14,600	14,300	12,400
	100	L, Z	Polycarbonate Dome Diffused	14,500	14,200	12,300
	100	8, S	Glass Diffused	13,700	13,400	11,600
A	80	7, R	Glass	11,600	11,400	9,900
	80	2, T	Acrylic	11,500	11,300	9,800
	80	4, V	Polycarbonate	11,500	11,300	9,800
	80	3, U	Acrylic Diffused	11,400	11,200	9,700
	80	5, W	Polycarbonate Diffused	11,400	11,200	9,700
	80	L, Z	Polycarbonate Dome Diffused	11,300	11,100	9,600
	80	8, S	Glass Diffused	10,700	10,500	9,100

Optional battery backup will add 6W to fixture wattage.

SafeSite CID1 High Bay 100-277 VAC and 347-480 VAC						
Output	Wattage	Lens	Lens Material	Lumens 5000K CCT	Lumens 4000K CCT	Lumens 2700K CCT
E	185	7	Glass	25,900	25,300	22,000
	185	8	Glass Diffused	23,850	23,350	20,300
C	130	7	Glass	18,600	18,200	15,800
	130	8	Glass Diffused	17,150	16,750	14,550
B	100	7	Glass	14,000	13,700	11,900
	100	8	Glass Diffused	12,900	12,600	10,950
A	80	7	Glass	10,950	10,700	9,300
	80	8	Glass Diffused	10,100	9,850	8,550

Higher efficiency models available. See Ultra-Efficient High Bay spec sheet.

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Lumen Tables

Vigilant Low Bay 100-277 VAC, 120-250 VDC and 347-480 VAC						
Output	Wattage	Lens	Lens Material	Lumens 5000K CCT	Lumens 4000K CCT	Lumens 2700K CCT
C	150	2, T	Acrylic	17,500	17,100	14,900
	150	4, V	PC	17,400	17,000	14,800
	150	L, Z	Poly Dome	17,200	16,800	14,600
	150	5, W	Polycarbonate Diffused	17,300	16,900	14,700
	150	3, U	Acrylic Diffused	17,300	16,900	14,700
B	112	2, T	Acrylic	13,400	13,100	11,400
	112	4, V	PC	13,300	13,000	11,300
	112	L, Z	Poly Dome	13,200	12,900	11,200
	112	5, W	Polycarbonate Diffused	13,200	12,900	11,200
	112	3, U	Acrylic Diffused	13,200	12,900	11,200
9	78	2, T	Acrylic	9,400	9,200	8,000
	78	4, V	PC	9,300	9,100	7,900
	78	L, Z	Poly Dome	9,200	9,000	7,800
	78	5, W	Polycarbonate Diffused	9,300	9,100	7,900
	78	3, U	Acrylic Diffused	9,300	9,100	7,900
6	50	2, T	Acrylic	6,500	6,400	5,500
	50	4, V	PC	6,400	6,300	5,400
	50	L, Z	Poly Dome	6,400	6,300	5,400
	50	5, W	Polycarbonate Diffused	6,400	6,300	5,400
	50	3, U	Acrylic Diffused	6,400	6,300	5,400
4	38	2, T	Acrylic	4,000	3,900	3,400
	38	4, V	PC	4,000	3,900	3,400
	38	L, Z	Poly Dome	3,900	3,800	3,300
	38	5, W	Polycarbonate Diffused	3,900	3,800	3,300
	38	3, U	Acrylic Diffused	3,900	3,800	3,300

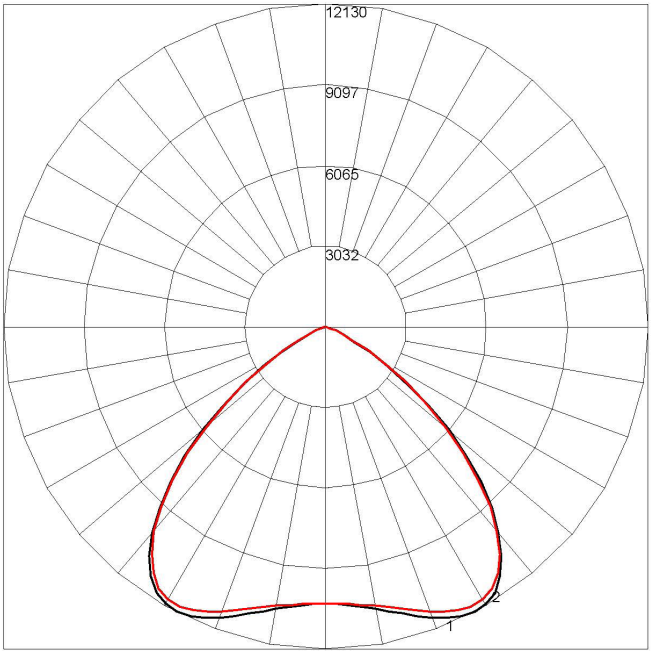
Optional battery backup will add 6W to fixture wattage.
Higher efficiency models available. See Ultra-Efficient High Bay spec sheet.

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Beam Distribution

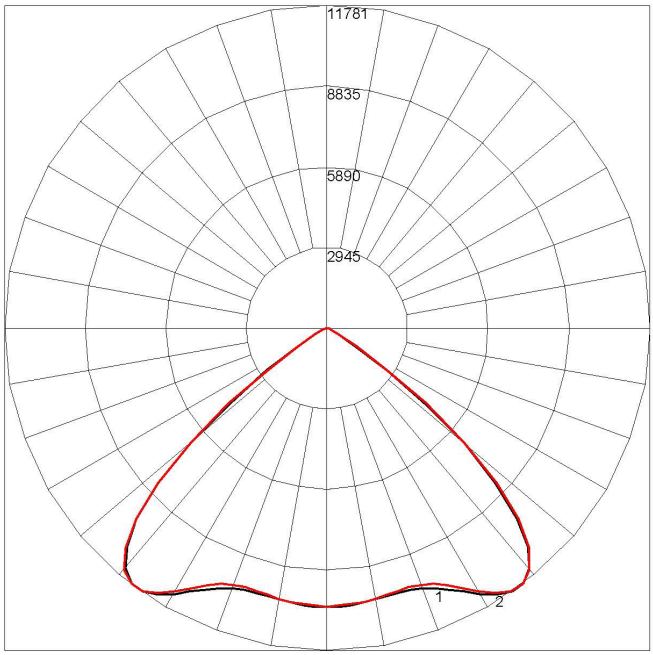
= 0°
= 90°

High Bay Medium



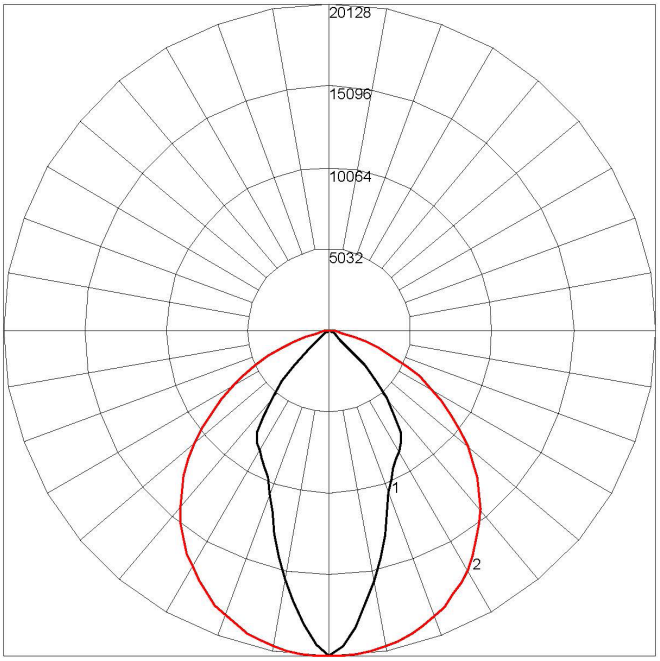
Maximum Candela = 12129.5 Located At Horizontal Angle = 0, Vertical Angle = 27.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)

High Bay Wide



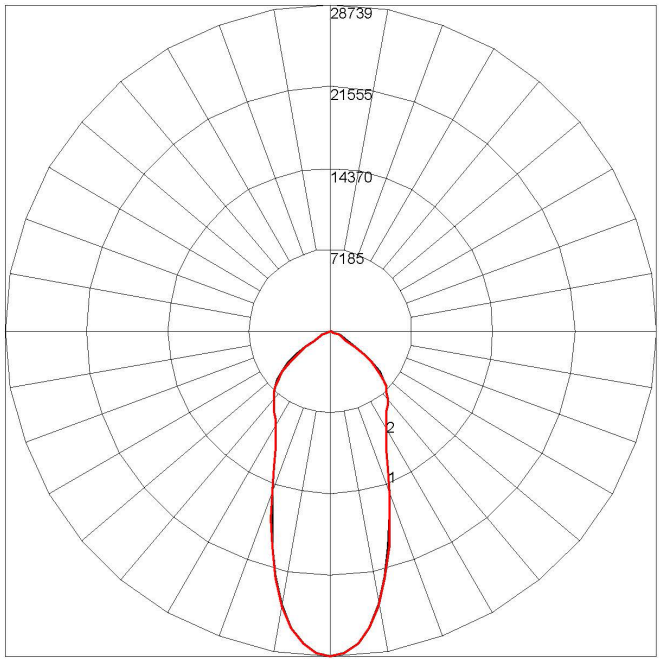
Maximum Candela = 11780.5 Located At Horizontal Angle = 90, Vertical Angle = 37.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)

High Bay Oval



Maximum Candela = 20128.4 Located At Horizontal Angle = 85, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)

High Bay Narrow

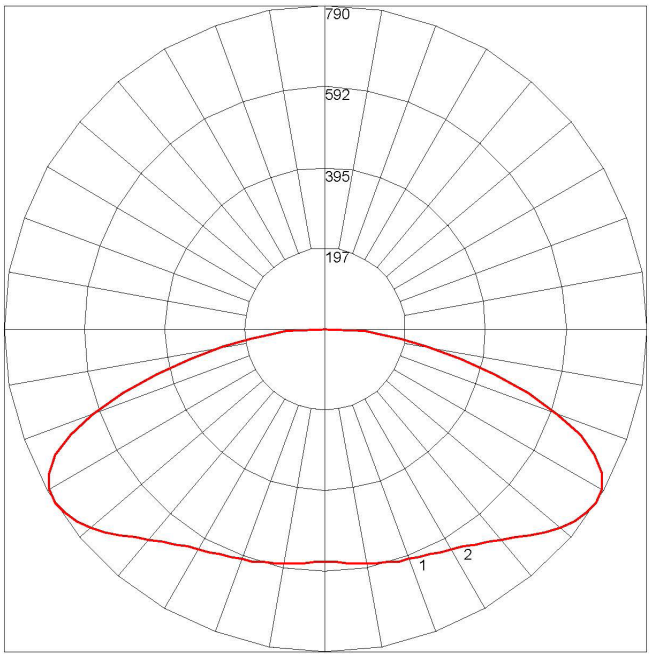


Maximum Candela = 28739.4 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)

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Beam Distribution

Low Bay Ultra Wide



= 0°

= 90°

Maximum Candela = 789.7 Located At Horizontal Angle = 0, Vertical Angle = 57.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)

Battery Backup (BB) Lumen Output:

BB Lumens = (BB Wattage) × (Fixture Lumens / Fixture Wattage)

High Bay Example: HEU-7MC2-ENNW-NGH
BB Lumens = 20W × (27,500 / 185)
BB Lumens = 2,973 lumens

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Inrush Currents

100-277 VAC Models

Product	Output	Max Wattage	Inrush Current @ Input Voltage			Approximate Time Duration (T50) of Inrush Current	
			100 VAC	120 VAC	277 VAC	120 VAC	277 VAC
Low Bay	4k	43	6.4	7.7	17.8	1.5ms	1.5ms
	6k	58	6.4	7.7	17.8	1.5ms	1.5ms
	9k	86	6.4	7.7	17.8	1.5ms	1.5ms
	14k	120	6.4	7.7	17.8	1.5ms	1.5ms
	18k	167	6.4	7.7	17.8	1.5ms	1.5ms
High Bay	11k	86	6.4	7.7	17.8	1.5ms	1.5ms
	14k	109	6.4	7.7	17.8	1.5ms	1.5ms
	19k	145	6.4	7.7	17.8	1.5ms	1.5ms
	26k	205	6.4	7.7	17.8	1.5ms	1.5ms

347-480 VAC Models

Product	Output	Max Wattage	Inrush Current @ Input Voltage		Approximate Time Duration (T50) of Inrush Current	
			347 VAC	480 VAC	347 VAC	480 VAC
Low Bay	9k	88	22.3	31	1.8ms	1.8ms
	14k	124	22.3	31	1.8ms	1.8ms
	18k	175	22.3	31	1.8ms	1.8ms
High Bay	11k	85	22.3	31	1.8ms	1.8ms
	14k	112	22.3	31	1.8ms	1.8ms
	19k	148	22.3	31	1.8ms	1.8ms
	26k	206	22.3	31	1.8ms	1.8ms

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Lumen Maintenance Factor

100-277 VAC Models

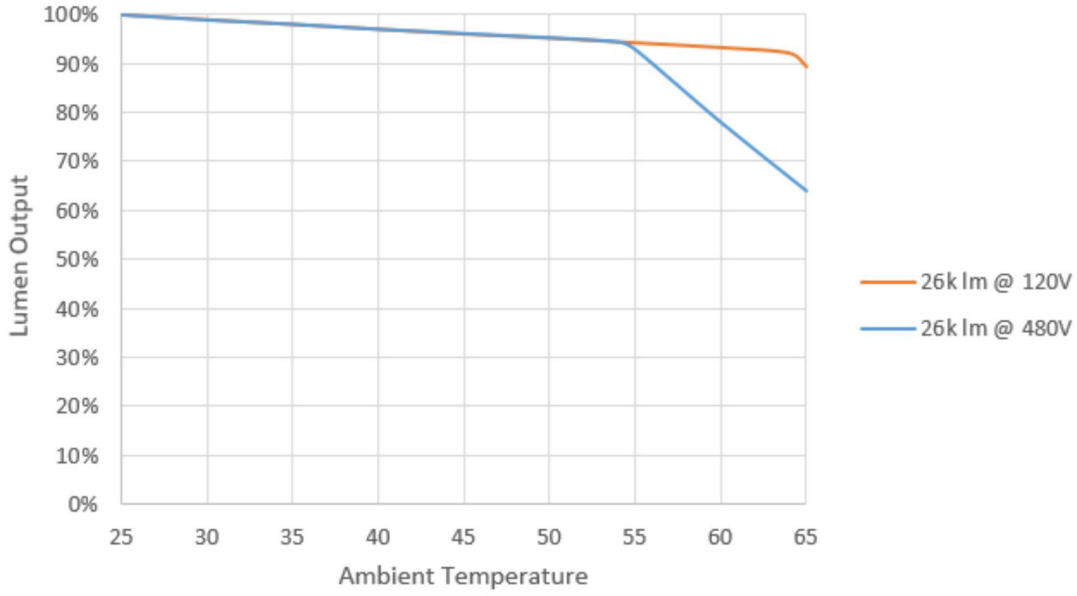
Ambient Temp (°C)	Hours								
	0	15000	30000	45000	60000	75000	90000	100000	150000
25	100%	98%	96%	95%	94%	92%	91%	90%	86%
30	99%	97%	95%	94%	93%	91%	90%	89%	85%
35	98%	96%	94%	93%	92%	91%	89%	89%	84%
40	97%	95%	94%	92%	91%	90%	88%	88%	84%
45	96%	94%	93%	91%	90%	89%	88%	87%	83%
50	95%	93%	92%	91%	89%	88%	87%	86%	82%
55	94%	92%	91%	90%	88%	87%	86%	85%	81%
60	94%	91%	90%	89%	88%	86%	85%	84%	81%
65	90%	88%	86%	84%	83%	81%	80%	79%	74%

347-480 VAC Models

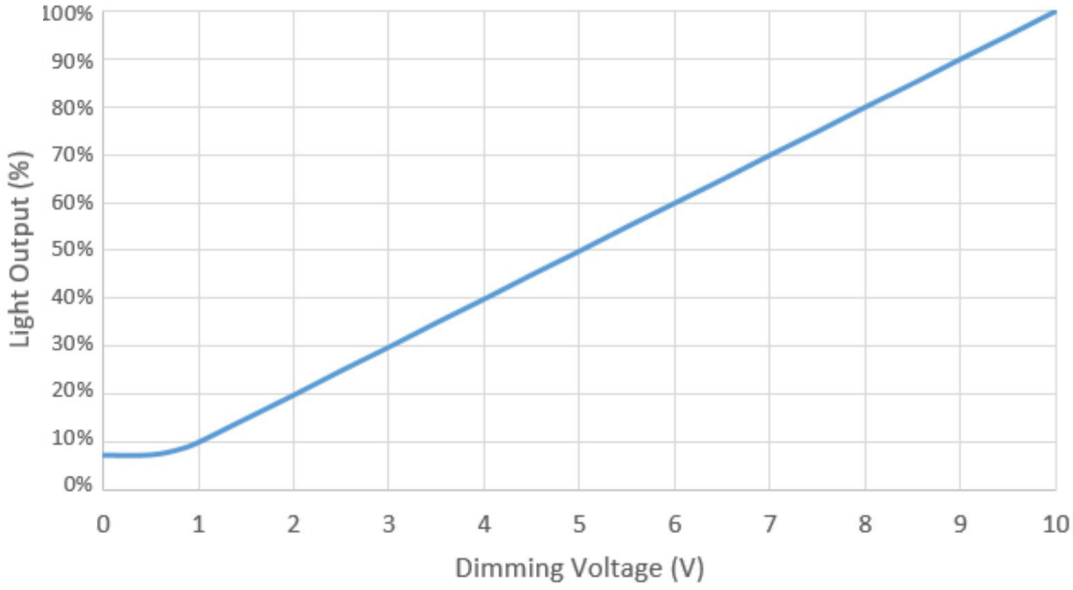
Ambient Temp (°C)	Hours								
	0	15000	30000	45000	60000	75000	90000	100000	150000
25	100%	98%	96%	95%	94%	92%	91%	90%	86%
30	99%	97%	95%	94%	93%	91%	90%	89%	85%
35	98%	96%	94%	93%	92%	91%	89%	89%	84%
40	97%	95%	94%	92%	91%	90%	88%	88%	84%
45	96%	94%	93%	91%	90%	89%	88%	87%	83%
50	95%	93%	92%	91%	89%	88%	87%	86%	82%
55	93%	91%	90%	88%	87%	86%	85%	84%	80%
60	78%	76%	75%	74%	73%	72%	71%	70%	67%
65	64%	63%	62%	61%	60%	59%	58%	58%	55%

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Thermal Roll-Off



Dimming Characterization 0-10V



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Vigilant® LED High Bay / Low Bay - UL / CSA



HBXW3-SSL-316
- 316 Stainless steel locking bracket



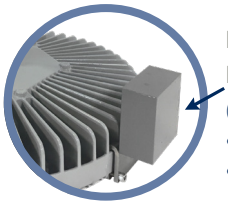
HBXCAB48
- 48" long stainless steel safety rope (for use with safety bracket)



HBXH
- Hook
- For use with 3 conductor cable only



HBXW3-SSL-316FT
- 316 Stainless steel forward throw bracket



HBXCBOCCFSPG
HBXCBOCCFSPK
(Counter Balance Occ)
- Powder Coated Steel
- Stainless Steel



HBXHL
- Hook/Loop
- For use with 3 conductor cable only



HBXW2
- Swivel bracket and cable gland

HBXW3
- Swivel bracket



HBXSB
- Stainless Steel (4x)



HBXCG
- Cable gland



HBXCU
- Ceiling / wall mount



LBXLENP
- Polycarbonate dome lens replacement



HBXDUALBRCKT
- Dual bracket



HBXLENGC
- Clear tempered glass

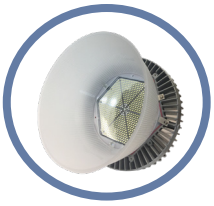
HBXLENPC
- Polycarbonate lens, clear

HBXLENAC
- Acrylic lens, clear

HBXLENPD
- Polycarbonate lens, diffused

HBXLENAD
- Acrylic lens, diffused

HBXLENGD
- Diffused tempered glass



HBXREF16
- Acrylic reflector



HBXFSIRREMOTE
- Remote for occupancy sensor



HBXDC
- 21° slope dust cover

HBXDC45
- 45° slope dust cover

HBXDC60
- 60° slope dust cover



HBBATTKIT20
- 20W replacement battery

HBBATTKIT10
- 10W replacement battery

Notes
1) HBXLENGC Not applicable for Low Bay (Ultra Wide)

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SafeSite® LED High Bay / Low Bay - UL 844



Suitable for:
CID1: Group C, D only
• CID2

HBXW1
- Wall mount

HBXC1
- Ceiling mount



Suitable for: CID2

HBXW2
- Swivel bracket and cable gland



HBXSB
- Stainless steel (4x)



Suitable for:
CID2

HBXCG
- Cable gland



Suitable for: CID2

HBX-DUAL-BRCKT
- Dual bracket



Suitable for: CID2

HBBATTKIT20
- 20W replacement battery

HBBATTKIT10
- 10W replacement battery



HBXCAB48
- 48" long stainless steel safety rope (for use with safety bracket)



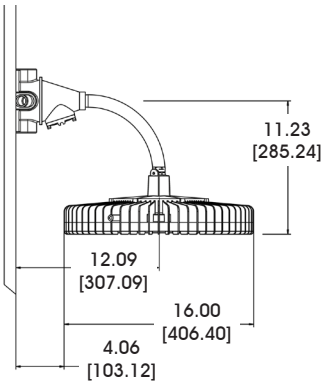
Suitable for:
CID1 • CID2

HBXW3-SSL-316
- Stainless steel swivel bracket
- 316 Stainless steel

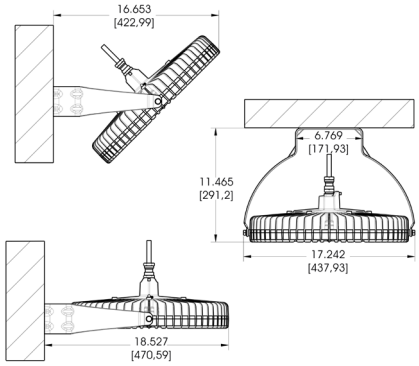
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SafeSite® LED High Bay / Low Bay - UL 844

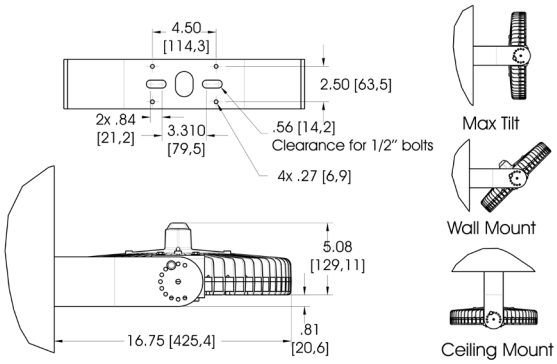
HBXW1 - Wall mount



HBXW2 - Swivel bracket and cable gland



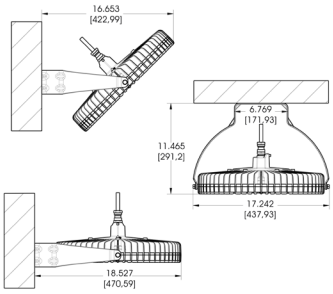
HBXW3-SSL-xxx - Stainless steel bracket



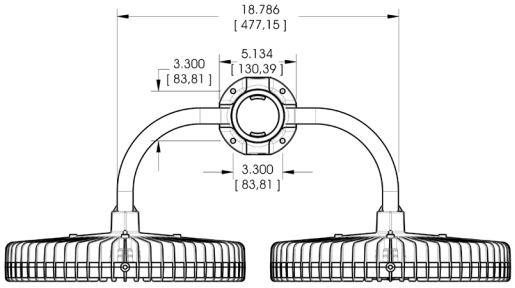
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Vigilant® LED High Bay / Low Bay - UL / CSA

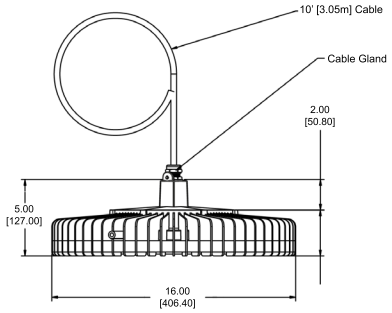
HBXW2 - Swivel Bracket and Cable Gland



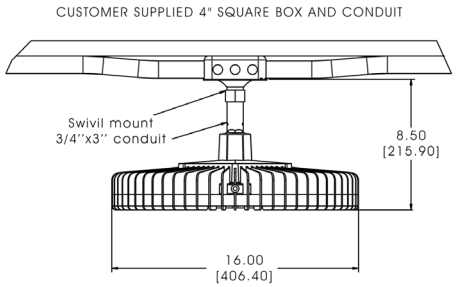
HBXDUALBRCKT - Dual Bracket



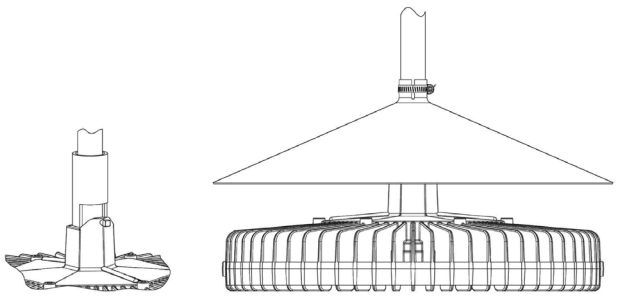
HBXCG - Cable Gland



HBXCU - Ceiling Mount



HBXDC - Dust Cover (HBXDC30 & HBXDC60)



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Hazardous Locations Ratings - UL

Fixed and portable fixtures for installation and use in hazardous (classified) locations Class I, Divisions 1 and 2, Groups A, B, C, and D; Class II, Division 1, Groups E, F, and G; Class II, Division 2, Groups F and G; and Class III, Divisions 1 and 2, in accordance with the National Electrical Code, NFPA 70

Classes

The classes define the general nature of hazardous material in the surrounding atmosphere.

Class	Hazardous Material in Surrounding Atmosphere
Class I	Hazardous because flammable gases or vapors are present in the air in quantities sufficient to produce explosive or ignitable mixtures
Class II	Hazardous because combustible or conductive dusts are present
Class III	Hazardous because ignitable fibers or flying's are present, but not likely to be in suspension in sufficient quantities to produce ignitable mixtures. Typical wood chips, cotton, flax and nylon. Group classifications are not applied to this class

Divisions

The division defines the probability of hazardous material being present in an ignitable concentration in the surrounding atmosphere.

Division	Presence of Hazardous Material
Division 1	The substance referred to by class is present during normal conditions
Division 2	The substance referred to by class is present only in abnormal conditions, such as a container failure or system breakdown

Groups

The group defines the hazardous material in the surrounding atmosphere.

Group	Hazardous Material in Surrounding Atmosphere
Group A	Acetylene
Group B	Hydrogen, fuel and combustible process gases containing more than 30% hydrogen by volume or gases of equivalent hazard such as butadiene, ethylene, oxide, propylene oxide and acrolein
Group C	Carbon monoxide, ether, hydrogen sulfide, morphline, cyclopropane, ethyl and ethylene or gases of equivalent hazard
Group D	Gasoline, acetone, ammonia, benzene, butane, cyclopropane, ethanol, hexane, methanol, methane, vinyl chloride, natural gas, naphtha, propane or gases of equivalent hazard
Group E	Combustible metal dusts, including aluminum, magnesium and their commercial alloys or other combustible dusts whose particle size, abrasiveness and conductivity present similar hazards in connection with electrical equipment
Group F	Carbonaceous dusts, carbon black, coal black, charcoal, coal or coke dusts that have more than 8% total entrapped volatiles or dusts that have been sesitized by other material so they present an explosion hazard
Group G	Flour dust, grain dust, flour, starch, sugar, wood, plastic and chemicals

Reference:
http://www.engineeringtoolbox.com/hazardous-areas-classification-d_347.html

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