





# Vigilant® Ultra-Efficient LED High Bay Technical Specification Sheet - CE





# Vigilant® Ultra-Efficient LED High Bay - CE

# **Technical Information**



## **Corded Model**



### **Mechanical Information:**

Fixture weight:

8.2 kg (18 lbs)

Shipping weight:

10.9 kg (24 lbs)

Mounting:

Stainless Steel Hook

**Power Cord:** 

3 meters, H07RN-F or H07BN4-F Heavy Duty

Prefix: VEE

# **Integrated Wiring Box**



### **Mechanical Information:**

Fixture weight:

9.1 kg (20 lbs)

Shipping weight: 11.8 kg (26 lbs)

Mounting:

Various Kits (see page 9)

Wiring Box Cable Entries:

M25 x 3

Terminals:

0.5-4mm $^{2}$  x 5

Prefix: ∨W⊟

	Warranty	L70
Dialight LED High Bay	10yr	>150,000
Metal Halide	1	15,000
High Pressure Sodium	1	20,000

#### **Certifications & Ratings:**

EN 60598-1:2015, IK10 to EN 50102 IEC 60598-1:2014 (Polycarbonate lens)

EN 60598-2-1:1989, IK06 to EN 50102 (Acrylic lens)
IEC 60598-2-1:2020 IK05 to EN 50102 (Glass lens)
IEC60068 D-Marking to EN 60598 2-24
L70 >150,000 hours @ 25°C

IP66 to EN 60529 ambient

Variable Dimming as Standard:
Variable Dimming Control: DALI enabled

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

Total system power

consumption: See table

 Operating Temp:
 -40°C to +65°C

 Harmonics:
 IEC 61000-3-2

 Noise requirement /EMC:
 EN 61547: 2009

Radiated and Conducted Emissions: EN 55015

**EMC Immunity**: EN 61547: 2009

**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

Construction:

Housing: Copper-free aluminium

Finish: Superior dual coat finish

-Sealed polyester topcoat

-Chemical-resistant epoxy primer

Lens: See table

Screws: Stainless steel 316

#### **Photometric Information:**

**CRI:** 80, 70

CCT: 5000K (cool white)

4000K (neutral white)

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



# Vigilant® Ultra-Efficient LED High Bay - CE

**Ordering Information** 



	Standard Model with 3 Meter Cable & Hook Mount												
Part Number	Lumens	Wattage	lm/W	ССТ	CRI	Lens	Beam Distribution	Controls					
VEE-7WC2-JNHW-NGN	38,200	230	166	5000K	80	Glass	Wide						
VEE-7MC2-JNHW-NGN	37,400	230	163	5000K	80	Glass	Medium						
VEE-7WC2-HNHW-NGN	33,000	195	169	5000K	80	Glass	Wide						
VEE-7MC2-HNHW-NGN	32,300	195	166	5000K	80	Glass	Medium						
VEE-7WC2-FNHW-NGN	28,600	165	173	5000K	80	Glass	Wide						
VEE-7MC2-FNHW-NGN	28,000	165	170	5000K	80	Glass	Medium						
		Inte	grated W	iring Box - Sta	ndard with HE	XW3 Bracket							
VWE-7WC2-JAAW-NGN	38,200	230	166	5000K	80	Glass	Wide	DALI					
VWE-7MC2-JAAW-NGN	37,400	230	163	5000K	80	Glass	Medium	DALI					
VWE7-WC2-HAAW-NGN	33,000	195	169	5000K	80	Glass	Wide	DALI					
VWE-7MC2-HAAW-NGN	32,300	195	166	5000K	80	Glass	Medium	DALI					
VWE-7WC2-FAAW-NGN	28,600	165	173	5000K	80	Glass	Wide	DALI					
VWE-7MC2-FAAW-NGN	28,000	165	170	5000K	80	Glass	Medium	DALI					

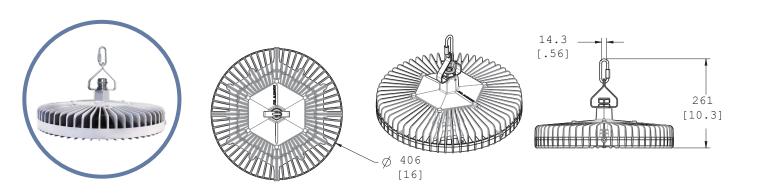
All values typical unless otherwise stated (tolerance +/- 10%)

DISCLAIMER: All information provided is, to the best of Dialight's knowledge, accurate as of the date of publication, but is subject to change without notice and does not form part of any contract with Dialight. When ordering please refer to www.dialight.com for current versions of: (a) relevant product documentation (including the most up to date product data sheets); (b) Dialight terms and conditions of sale; and, (c) the relevant product warranty. All information provided is, to Dialight's knowledge, accurate at the date of publication, but is subject to change without notice and does not form part of any contract with Dialight. In the event of any discrepancy between this document and information provided on our website, the latter shall prevail.

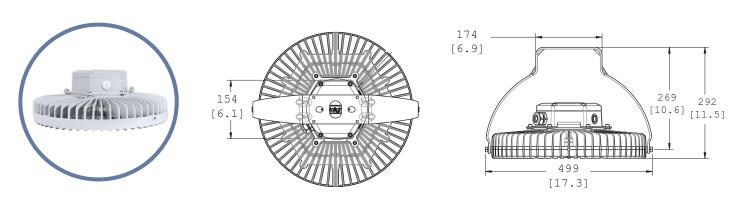


# **Dimensional Drawings**

## **Corded Model with Hook Mount**



## **Integrated Wiring Box**



DISCLAIMER: All information provided is, to the best of Dialight's knowledge, accurate as of the date of publication, but is subject to change without notice and does not form part of any contract with Dialight. When ordering please refer to www.dialight.com for current versions of: (a) relevant product documentation (including the most up to date product data sheets); (b) Dialight terms and conditions of sale; and, (c) the relevant product warranty. All information provided is, to Dialight's knowledge, accurate at the date of publication, but is subject to change without notice and does not form part of any contract with Dialight. In the event of any discrepancy between this document and information provided on our website, the latter shall prevail.



# **Lumen Tables**

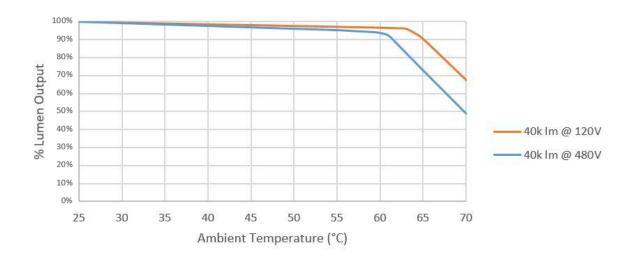
	Vigilant High Bay 100-277 VAC, 120-250 VDC and 347-480 VAC												
Outro	NA/attaga	0-4:-	Lens Material	70 CRI, 5000K / 4000K CCT									
Output	Wattage	Optic	Lens Material	Lumen Output	lm/W								
J	230			41,300	180								
Н	195			35,700	183								
F	165			30,900	187								
Е	140	High Efficacy Round	Glass	26,300	188								
С	96			19,100	200								
В	80			15,000	188								
А	65			12,100	186								

Variable	Туре	Scale Factor
	Glass - Clear	100%
Long	Acrylic - Clear	100%
Lens	Polycarbonate - Clear	99%
	Polycarbonate - Dome Diffused	98%
	Round	100%
Optic	Narrow	97%
Optic	Medium	95%
	Aisle	92%
	CW 70 CRI	100%
CCT & CRI	NW 70 CRI	100%
COT & Onl	CW 80 CRI	96%
	NW 80 CRI	96%

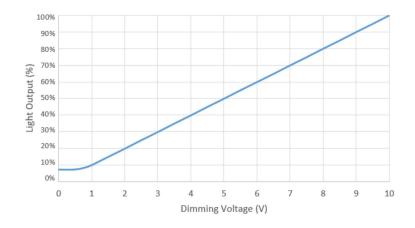
DISCLAIMER: All information provided is, to the best of Dialight's knowledge, accurate as of the date of publication, but is subject to change without notice and does not form part of any contract with Dialight. When ordering please refer to www.dialight.com for current versions of: (a) relevant product documentation (including the most up to date product data sheets); (b) Dialight terms and conditions of sale; and, (c) the relevant product warranty. All information provided is, to Dialight's knowledge, accurate at the date of publication, but is subject to change without notice and does not form part of any contract with Dialight. In the event of any discrepancy between this document and information provided on our website, the latter shall prevail.

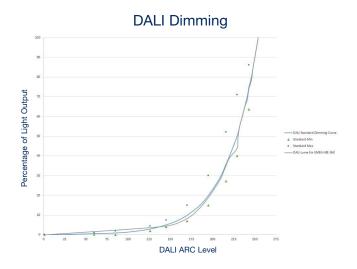


# **Thermal Roll-Off**



# **Dimming Characterization 0-10V**



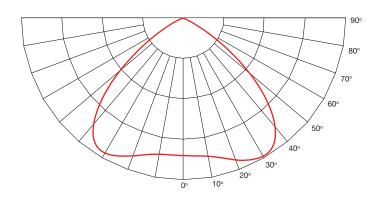


DISCLAIMER: All information provided is, to the best of Dialight's knowledge, accurate as of the date of publication, but is subject to change without notice and does not form part of any contract with Dialight. When ordering please refer to www.dialight.com for current versions of: (a) relevant product documentation (including the most up to date product data sheets); (b) Dialight terms and conditions of sale; and, (c) the relevant product warranty. All information provided is, to Dialight's knowledge, accurate at the date of publication, but is subject to change without notice and does not form part of any contract with Dialight. In the event of any discrepancy between this document and information provided on our website, the latter shall prevail.

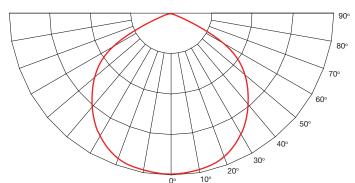


# **Beam Distribution**

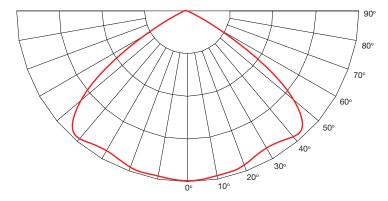
# Medium



# Round



# Wide



DISCLAIMER: All information provided is, to the best of Dialight's knowledge, accurate as of the date of publication, but is subject to change without notice and does not form part of any contract with Dialight. When ordering please refer to www.dialight.com for current versions of: (a) relevant product documentation (including the most up to date product data sheets); (b) Dialight terms and conditions of sale; and, (c) the relevant product warranty. All information provided is, to Dialight's knowledge, accurate at the date of publication, but is subject to change without notice and does not form part of any contract with Dialight. In the event of any discrepancy between this document and information provided on our website, the latter shall prevail.



# **Lumen Maintenance Factor**

	% Lumen Output (40k lm @ 120V)													
Ambient Temp	Hours													
(°C)	0	15000	30000	45000	60000	75000	90000	100000	150000					
25	100%	96%	93%	90%	87%	84%	91%	80%	71%					
30	100%	96%	93%	90%	87%	84%	91%	79%	71%					
35	99%	95%	92%	89%	86%	84%	90%	79%	71%					
40	99%	95%	92%	89%	86%	83%	90%	79%	70%					
45	98%	94%	91%	88%	85%	82%	80%	78%	69%					
50	98%	94%	91%	87%	84%	82%	79%	77%	69%					
55	97%	93%	90%	87%	84%	81%	78%	76%	68%					
60	97%	93%	89%	86%	83%	80%	77%	75%	67%					
65	90%	87%	84%	80%	78%	75%	72%	70%	62%					

	% Lumen Output (26k lm @ 120V)													
Ambient Temp		Hours												
(°C)	0	15000	30000	45000	60000	75000	90000	100000	150000					
25	100%	97%	95%	92%	90%	88%	86%	84%	77%					
30	99%	97%	94%	92%	90%	87%	85%	84%	77%					
35	99%	96%	94%	91%	89%	87%	85%	83%	76%					
40	98%	96%	93%	91%	89%	86%	84%	83%	76%					
45	98%	95%	93%	90%	88%	86%	84%	82%	75%					
50	97%	94%	92%	90%	87%	85%	83%	81%	75%					
55	97%	94%	91%	89%	87%	84%	82%	81%	74%					
60	96%	93%	91%	88%	86%	84%	81%	80%	73%					
65	96%	93%	90%	88%	85%	83%	81%	79%	72%					

# In-rush Current

# 100-277 VAC Models

Product Outp	Output	Max	Inrush Current @ Input Voltage					Approximate Time Duration (T50) of Inrush Current					
	Output	Wattage	100VAC	120VAC	230VAC	277VAC		100VAC	120VAC	230VAC	277VAC		
	11k	73	6.4	7.7	14.8	17.8		1.5ms	1.5ms	1.5ms	1.5ms		
	14k	90	6.4	7.7	14.8	17.8		1.5ms	1.5ms	1.5ms	1.5ms		
	18k	111	6.4	7.7	14.8	17.8		1.5ms	1.5ms	1.5ms	1.5ms		
High Bay	26k	161	6.4	7.7	14.8	17.8		1.5ms	1.5ms	1.5ms	1.5ms		
	30k	190	6.4	7.7	14.8	17.8		1.5ms	1.5ms	1.5ms	1.5ms		
	35k	225	6.4	7.7	14.8	17.8		1.5ms	1.5ms	1.5ms	1.5ms		
	40k	261	6.4	7.7	14.8	17.8		1.5ms	1.5ms	1.5ms	1.5ms		

DISCLAIMER: All information provided is, to the best of Dialight's knowledge, accurate as of the date of publication, but is subject to change without notice and does not form part of any contract with Dialight. When ordering please refer to www.dialight.com for current versions of: (a) relevant product documentation (including the most up to date product data sheets); (b) Dialight terms and conditions of sale; and, (c) the relevant product warranty. All information provided is, to Dialight's knowledge, accurate at the date of publication, but is subject to change without notice and does not form part of any contract with Dialight. In the event of any discrepancy between this document and information provided on our website, the latter shall prevail.



# **Circuit Breakers**

# **100-277 VAC Models**

Output Max	Maximum # of Lights per Breaker @100VAC			Maximum # of Lights per Breaker @120VAC			Maximum # of Lights per Breaker @230VAC			Maximum # of Lights per Breaker @277VAC			
Catput	Wattage	C10	B16	C16	C10	B16	C16	C10	B16	C16	C10	B16	C16
11k	73	10	16	16	12	19	19	23	37	37	27	43	43
14k	90	8	13	13	10	16	16	19	30	30	22	36	36
18k	111	6	10	10	8	13	13	15	24	24	17	28	28
26k	161	4	7	7	5	9	9	11	17	17	12	19	19
30k	190	4	6	6	5	7	7	9	14	14	10	17	17
35k	225	3	5	5	4	6	6	8	12	12	9	14	14
40k	261	3	4	4	3	5	5	7	10	10	8	12	12

# Earth Leakage

	Typical Measurements										
Voltage	Normal (mA)	Live to Neutral or L1 to L2 Reversed (mA)	Neutral or L2 Open (mA)	Neutral or L2 Open Reversed (mA)							
120V/60Hz	0.27	0.25	0.46	0.45							
230V/50Hz	0.41	0.40	0.78	0.77							
277V/60Hz	0.56	0.56	1.05	1.03							
347V/60Hz	0.28	0.28	0.39	0.40							
415V/50Hz	0.26	0.26	0.40	0.40							
480V/60Hz	0.36	0.36	0.54	0.53							

DISCLAIMER: All information provided is, to the best of Dialight's knowledge, accurate as of the date of publication, but is subject to change without notice and does not form part of any contract with Dialight. When ordering please refer to www.dialight.com for current versions of: (a) relevant product documentation (including the most up to date product data sheets); (b) Dialight terms and conditions of sale; and, (c) the relevant product warranty. All information provided is, to Dialight's knowledge, accurate at the date of publication, but is subject to change without notice and does not form part of any contract with Dialight. In the event of any discrepancy between this document and information provided on our website, the latter shall prevail.



# **Accessories**



## HBXW3-SSL-316M

• 316 stainless steel bracket



#### HBXCAB48

- 48" long stainless steel safety rope (for use with safety bracket)
- Includes 2 cables



#### **HBXSBDK**

 Sand blast kit (dome lens)

#### **HBXSBDL**

Sacrificial dome lens



## HBXW3-SSL-316FTM

 316 stainless steel forward throw bracket



#### **HBXSB**

- Safety tabs
- 316 stainless steel
- Includes 4 tabs



#### **HBXSBK**

 Sand blast kit (flat lens)

## **HBXSBL**

· Sacrificial flat lens



## HBXW3

 Powder-coated aluminium swivel bracket



## HBXGS

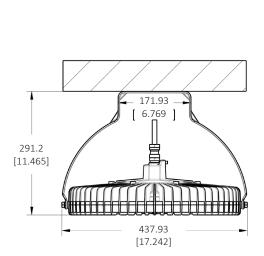
 Glare shield (internal use only, for use with flat lens)

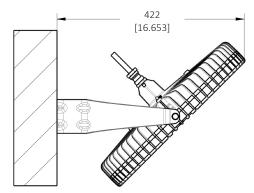


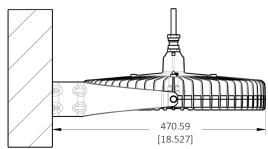
## HBXW3EUHOOK

 Swivel bracket with hanging hook

## HBXW3 - Swivel Bracket







DISCLAIMER: All information provided is, to the best of Dialight's knowledge, accurate as of the date of publication, but is subject to change without notice and does not form part of any contract with Dialight. When ordering please refer to www.dialight.com for current versions of: (a) relevant product documentation (including the most up to date product data sheets); (b) Dialight terms and conditions of sale; and, (c) the relevant product warranty. All information provided is, to Dialight's knowledge, accurate at the date of publication, but is subject to change without notice and does not form part of any contract with Dialight. In the event of any discrepancy between this document and information provided on our website, the latter shall prevail.

# **Dialight Europe Ltd**

Leaf C, Level 36, Tower 42 25 Old Broad Street London, EC2N 1HQ, United Kingdom Tel: +44 (0) 203 058 3540 Customer Service: +44 (0) 163 866 6541

sales-emea@dialight.com

## Middle East

Level 23 – Boulevard Plaza Tower 2 Emaar Boulevard, Dubai, U.A.E. P.O. Box 124342

Tel: +971 (4) 409-6962 Fax: +971 (4) 409-6850

DISCLAIMER: The use of this product without proper installation and inspections, including secondary safety retention/securing, could cause severe injury or death. Dialight products are intended for ultimate purchase, installation and operation by knowledgeable persons trained in the functional assessment, installation, use and maintenance of such products and all customers (including but not limited to end customers) are responsible for assessing the suitability of Dialight products for any given installation requirement. All values and performance data herein are design or typical values when measured under laboratory conditions. Whilst Dialight has used all reasonable endeavours to ensure the completeness and accuracy of information herein, this document does not form part of any contract with Dialight and Dialight does not assume any liability for damages resulting from use of this information or for any third party representations made in relation to Dialight products. The information herein is subject to change without notice. The products / software detailed herein are subject to applicable warranties and terms and conditions of use/purchase. Unless agreed otherwise in writing by an authorised representative of Dialight does not represent that its products are fit for a particular purpose and accepts no liability for the installation and/or unauthorised use of its products. When ordering please refer to www.dialight.com for current versions of: (a) relevant product documentain (including the most up to date product data sheets); (b) Dialight terms and conditions of sale; and, (c) Dialight warranty terms. All information provided is, to Dialight's knowledge, accurate at the date of publication, but is subject to change without notice and does not form part of any contract with Dialight. In the event of any discrepancy between this document and information provided on our website, the latter shall prevail.