

# Dialight® LED High Output High Bay - Low Profile

Technical Specification Sheet - Americas

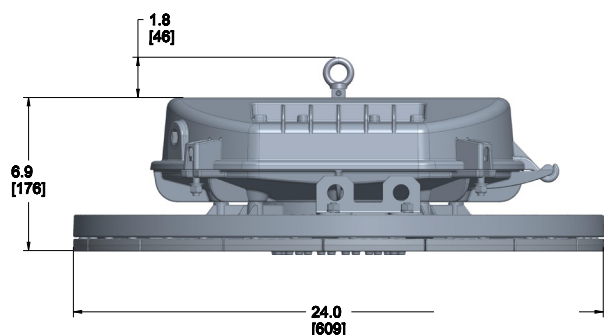
# Vigilant® LED High Output High Bay - Low Profile

## Technical Information



### Certifications & Ratings

- 10 year warranty
- UL 1598/A (wet locations)
- CSA C22.2 No. 250 (wet locations)
- IP66/67
- IK10 (polycarbonate) / IK06 (glass)
- L70 > 150,000 hours
- DLC Premium on most models
- Factory installed secondary retention bracket, optional safety cable accessory available



Dimensions in inches [mm]

### Mechanical Information:

<b>Weight (120-277 VAC):</b>	48 lbs (21.8 kg)
<b>Weight (277-480 VAC):</b>	49 lbs (22.2 kg)
<b>Shipping weight:</b>	62 lbs (28.1 kg)
<b>Mounting:</b>	(1) ¾" NPT Hook
<b>Entries:</b>	(1) ¾" NPT – top (2) ¾" NPT – sides

### Variable Dimming Option:

<b>Variable Dimming Cable:</b>	Two conductor cable
<b>Power Cable:</b>	Three conductor cable
<b>Variable Dimming Control:</b>	0-10 VDC
<b>Dimming Range:</b>	10 VDC = 100% light output 0 VDC = off

### Electrical Specifications:

<b>Operating Voltage:</b>	120-277 VAC, 50/60Hz 277-480 VAC, 50/60Hz
<b>Total system power consumption:</b>	See table
<b>Operating Temp:</b>	-40°F to +149°F (-40°C to +65°C)
<b>Harmonics:</b>	IEC 61000-3-2 Class C
<b>Noise requirement /EMC:</b>	FCC Title 47, Subpart B, Section 15, class A device. RF Immunity; 10V/m, 80MHz-1GHz
<b>Transient protection:</b>	6kV/3kA combination wave, as per IEEE C62.41, line-line and line-ground
<b>THD:</b>	< 20%
<b>Power Factor:</b>	> 0.9
<b>Construction:</b>	
<b>Housing:</b>	Copper free aluminum
<b>Finish:</b>	Superior dual coat finish - Sealed polyester topcoat - Chemical-resistant epoxy primer
<b>Lens Options:</b>	Glass, Acrylic or Polycarbonate
<b>Photometric Information:</b>	
<b>CRI:</b>	80
<b>CCT:</b>	5000K (cool white) 4000K (neutral white)

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

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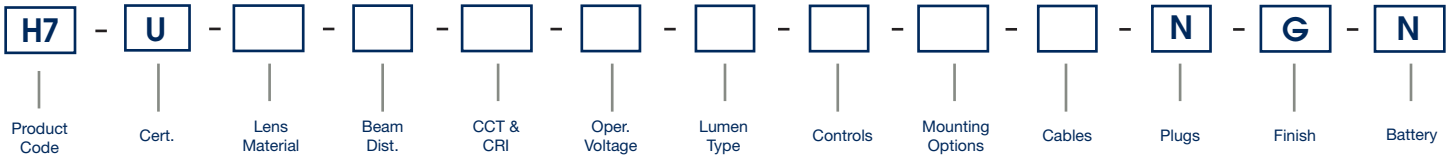
## Ordering Information



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

Specifications

### Ordering Information



<b>Product Code</b> H7 Vigilant High Output High Bay	<b>CCT &amp; CRI</b> C Cool White 5000K - 80 CRI N Neutral White 4000K - 80 CRI	<b>Controls</b> A DALI Dimming J IntelliLED Wireless	<b>Plugs</b> N No Option* <small>* For available cable and plug options contact your local Dialight representative</small>
<b>Certification</b> U UL 1598, UL 1598/A	<b>Operating Voltage</b> 2 120-277 VAC 5 277-480 VAC <small>For fused options contact your local Dialight representative</small>	<b>Mounting Options</b> H Hook N No Option* <small>* 3 - 3/4" threaded entries; 1 pendant and 2 through-feed perimeter are standard</small>	<b>Finish</b> G Gray (RAL 7040)
<b>Lens Material</b> 2 Acrylic - Clear 4 Polycarbonate - Clear 7 Glass - Clear	<b>Lumen Type</b> K 46,000 Lumens N 61,200 Lumens R 70,500 Lumens <small>Based on cool white and glass lens. See Technical Specification Sheet for additional options.</small>	<b>Cables</b> N No Cable (Standard) W 10' (3 meter) Power Cable	<b>Battery</b> N No Option
<b>Beam Distribution</b> M Medium N Narrow			

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## Ordering Information



Part Number	Fixture Lumen	Watt	lm/W	Voltage	CCT	CRI	Lens	Beam Distribution	Controls
<b>Standard Models - 120-277 VAC Models</b>									
H7U-7NC2-RDNN-NGN	70,500	485	145	120-277 VAC	5000K (cool white)	80	Glass	Narrow	0-10V
H7U-4NC2-RDNN-NGN	65,700	485	135	120-277 VAC	5000K (cool white)	80	Polycarbonate	Narrow	0-10V
H7U-2NC2-RDNN-NGN	66,800	485	138	120-277 VAC	5000K (cool white)	80	Acrylic	Narrow	0-10V
H7U-7MC2-RDNN-NGN	70,500	485	145	120-277 VAC	5000K (cool white)	80	Glass	Medium	0-10V
H7U-4MC2-RDNN-NGN	65,700	485	135	120-277 VAC	5000K (cool white)	80	Polycarbonate	Medium	0-10V
H7U-2MC2-RDNN-NGN	66,800	485	138	120-277 VAC	5000K (cool white)	80	Acrylic	Medium	0-10V
H7U-7NC2-NDNN-NGN	61,200	418	146	120-277 VAC	5000K (cool white)	80	Glass	Narrow	0-10V
H7U-4NC2-NDNN-NGN	57,100	418	137	120-277 VAC	5000K (cool white)	80	Polycarbonate	Narrow	0-10V
H7U-2NC2-NDNN-NGN	58,000	418	139	120-277 VAC	5000K (cool white)	80	Acrylic	Narrow	0-10V
H7U-7MC2-NDNN-NGN	61,200	418	146	120-277 VAC	5000K (cool white)	80	Glass	Medium	0-10V
H7U-4MC2-NDNN-NGN	57,100	418	137	120-277 VAC	5000K (cool white)	80	Polycarbonate	Medium	0-10V
H7U-2MC2-NDNN-NGN	58,000	418	139	120-277 VAC	5000K (cool white)	80	Acrylic	Medium	0-10V
H7U-7NC2-KDNN-NGN	46,000	300	153	120-277 VAC	5000K (cool white)	80	Glass	Narrow	0-10V
H7U-4NC2-KDNN-NGN	42,900	300	143	120-277 VAC	5000K (cool white)	80	Polycarbonate	Narrow	0-10V
H7U-2NC2-KDNN-NGN	43,600	300	145	120-277 VAC	5000K (cool white)	80	Acrylic	Narrow	0-10V
H7U-7MC2-KDNN-NGN	46,000	300	153	120-277 VAC	5000K (cool white)	80	Glass	Medium	0-10V
H7U-4MC2-KDNN-NGN	42,900	300	143	120-277 VAC	5000K (cool white)	80	Polycarbonate	Medium	0-10V
H7U-2MC2-KDNN-NGN	43,600	300	145	120-277 VAC	5000K (cool white)	80	Acrylic	Medium	0-10V
<b>Standard Models - 277-480 VAC Models</b>									
H7U-7NC5-RDNN-NGN	70,500	494	143	277-480 VAC	5000K (cool white)	80	Glass	Narrow	0-10V
H7U-4NC5-RDNN-NGN	65,700	494	133	277-480 VAC	5000K (cool white)	80	Polycarbonate	Narrow	0-10V
H7U-2NC5-RDNN-NGN	66,800	494	135	277-480 VAC	5000K (cool white)	80	Acrylic	Narrow	0-10V
H7U-7MC5-RDNN-NGN	70,500	494	143	277-480 VAC	5000K (cool white)	80	Glass	Medium	0-10V
H7U-4MC5-RDNN-NGN	65,700	494	133	277-480 VAC	5000K (cool white)	80	Polycarbonate	Medium	0-10V
H7U-2MC5-RDNN-NGN	66,800	494	135	277-480 VAC	5000K (cool white)	80	Acrylic	Medium	0-10V
H7U-7NC5-NDNN-NGN	61,200	427	143	277-480 VAC	5000K (cool white)	80	Glass	Narrow	0-10V
H7U-4NC5-NDNN-NGN	57,100	427	134	277-480 VAC	5000K (cool white)	80	Polycarbonate	Narrow	0-10V
H7U-2NC5-NDNN-NGN	58,000	427	136	277-480 VAC	5000K (cool white)	80	Acrylic	Narrow	0-10V
H7U-7MC5-NDNN-NGN	61,200	427	143	277-480 VAC	5000K (cool white)	80	Glass	Medium	0-10V
H7U-4MC5-NDNN-NGN	57,100	427	134	277-480 VAC	5000K (cool white)	80	Polycarbonate	Medium	0-10V
H7U-2MC5-NDNN-NGN	58,000	427	136	277-480 VAC	5000K (cool white)	80	Acrylic	Medium	0-10V
H7U-7NC5-KDNN-NGN	46,000	308	149	277-480 VAC	5000K (cool white)	80	Glass	Narrow	0-10V
H7U-4NC5-KDNN-NGN	42,900	308	139	277-480 VAC	5000K (cool white)	80	Polycarbonate	Narrow	0-10V
H7U-2NC5-KDNN-NGN	43,600	308	142	277-480 VAC	5000K (cool white)	80	Acrylic	Narrow	0-10V
H7U-7MC5-KDNN-NGN	46,000	308	149	277-480 VAC	5000K (cool white)	80	Glass	Medium	0-10V
H7U-4MC5-KDNN-NGN	42,900	308	139	277-480 VAC	5000K (cool white)	80	Polycarbonate	Medium	0-10V
H7U-2MC5-KDNN-NGN	43,600	308	142	277-480 VAC	5000K (cool white)	80	Acrylic	Medium	0-10V

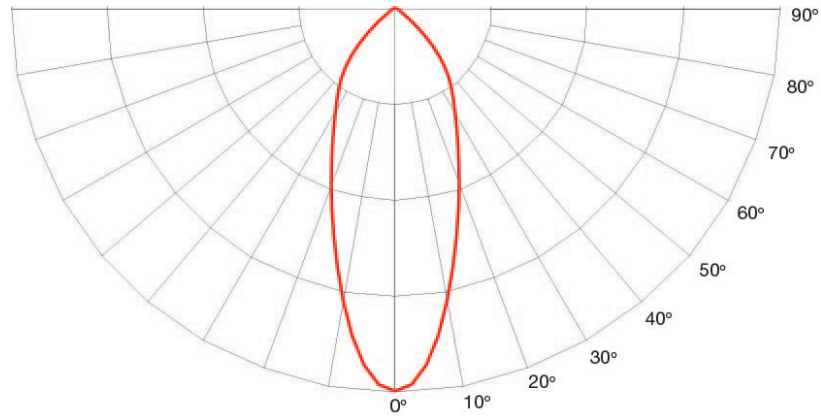
All values typical unless otherwise stated (tolerance +/- 10%).

Neutral white color temperature is available for products in the above table. Replace the sixth character **C** with **N**. Ex: H7U-7MC2-RDNN-NGN becomes H7U-7MN2-RDNN-NGN.

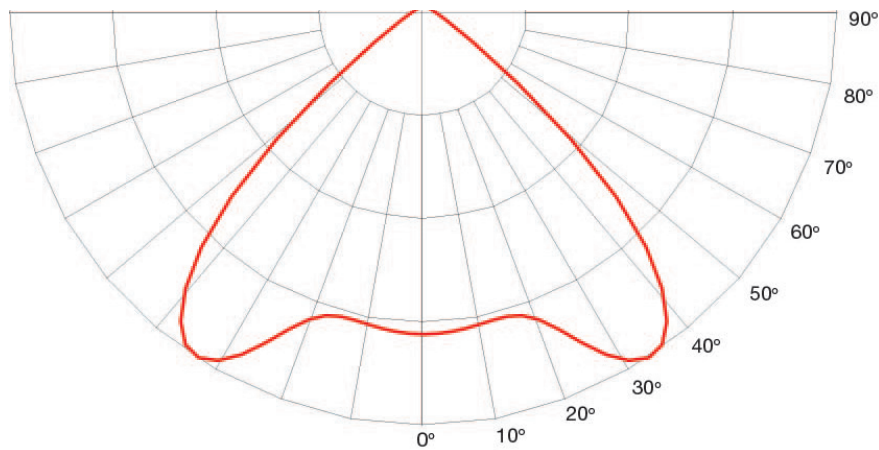
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## Beam Distribution

### Narrow



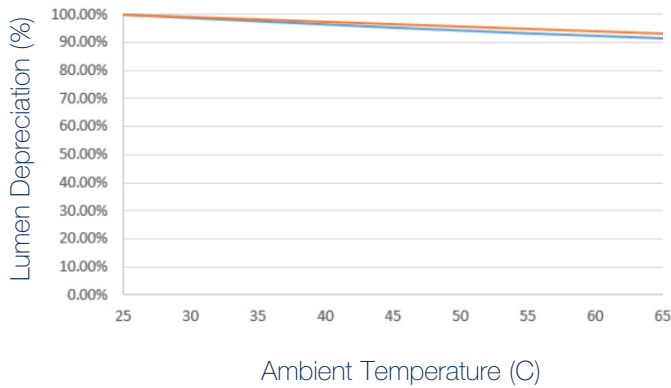
### Medium



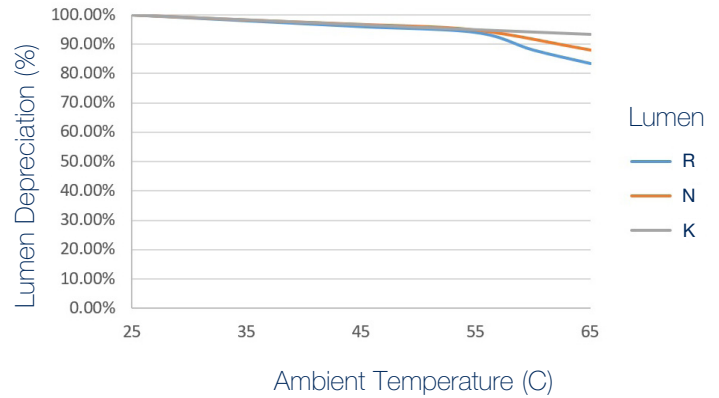
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# Thermal Roll-Off

### Thermal Rolloff (277V)



### Thermal Rolloff (480V)



# In Rush Current / Circuit Breakers

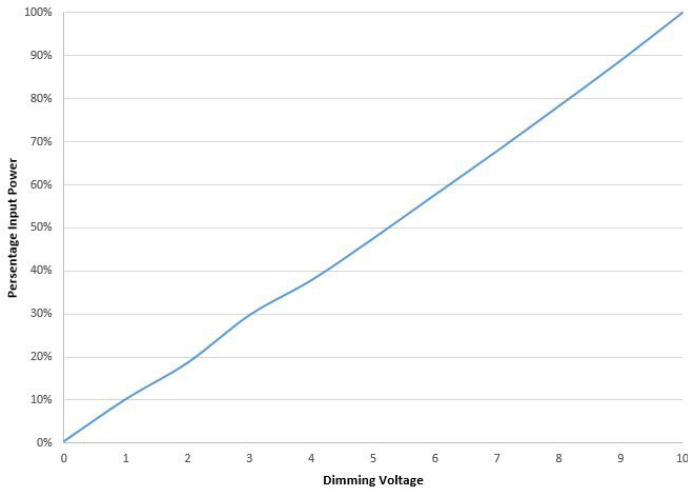
Inrush current @ input voltage					Time duration of Inrush current @ input voltage			
120 VAC	277 VAC	277-480 VAC	347 VAC	480 VAC	120 VAC	277 VAC	347 VAC	480 VAC
15A	36A	6.4A	8A	11A	1.5 ms	1.5 ms	.88 ms	.88 ms

Maximum number of lights per breaker						
Model	120 VAC			277 VAC		
	C10	B16	C16	C10	B16	C16
K	3	4	4	5	8	8
N	2	3	3	4	6	6
R	2	2	2	3	5	5
Model	347 VAC			480 VAC		
	C10	B16	C16	C10	B16	C16
K	7	12	12	9	15	15
N	5	8	8	7	11	11
R	5	7	7	6	9	9

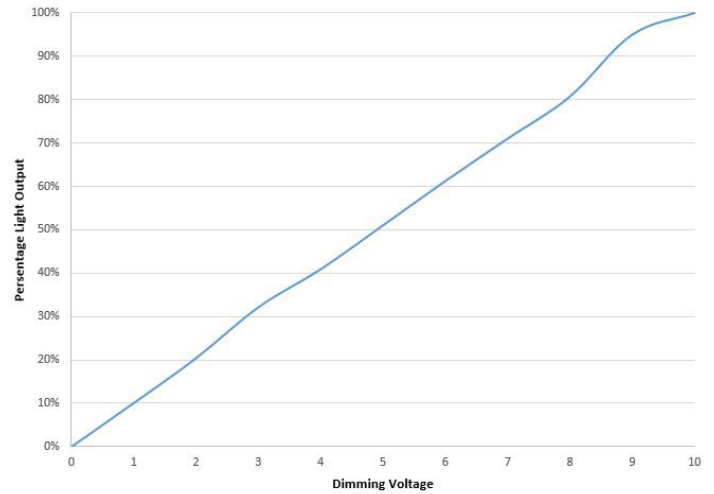
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# Dimming Characterization 0-10V

Input Power VS Dimming Voltage



Light Output VS Dimming Voltage



## Mounting Accessories



### H6XCAB72

- 72" stainless steel safety rope
- Kit includes: (1) cable
- Two (2) cables required for each fixture

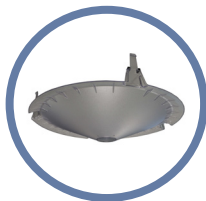
### H6XCAB60

- 60" stainless steel safety rope
- Kit includes: (1) cable
- Two (2) cables required for each fixture



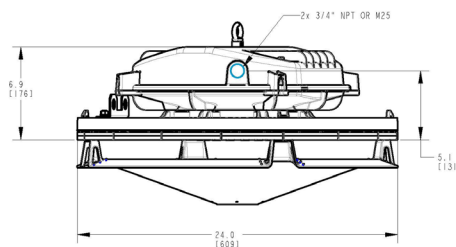
### H6X-H

- Hook



### H6XDIFFUSER

- Diffuser
- Patent pending



Dimensions in inches [mm]

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## North American HQ

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