



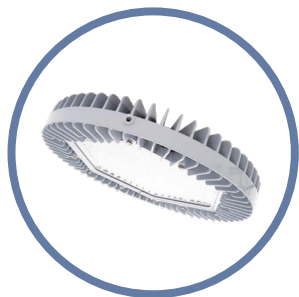
Dialight DC Crane Vigilant[®] LED High Bay

Technical Specification Sheet - Americas

DC Crane Vigilant® LED High Bay - UL / CSA

Technical Information

Corded Model



Mechanical Information:

Fixture weight:

18 lbs (8.16kg)

Shipping weight:

24 lbs (10.8kg)

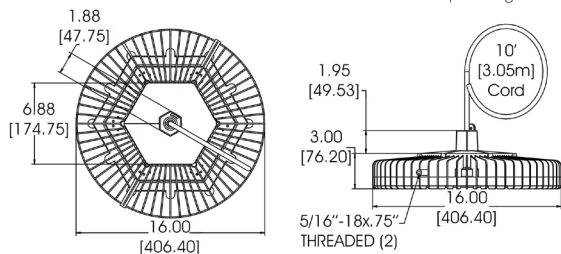
Mounting:

3/4" NPT - top
Various Kits

Power Cord:

10' 18 AWG ST00W / SOOW

Patent pending



Integrated Wiring Box Model



Mechanical Information:

Fixture weight:

20 lbs (9 kg)

Shipping weight:

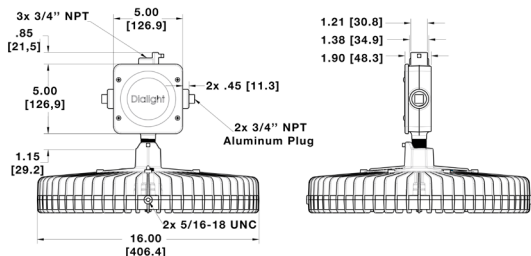
26 lbs (12 kg)

Mounting:

3/4" NPT or Hook

Wiring Box Cable Entries:

(2x) 3/4" NPT



Dimensions in inches (mm)

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Certifications & Ratings:

10 year warranty
UL 1598/A
UL 8750
IP66/67

CSA C22.2 No. 250.0-08
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: 250-480 VDC
(778 VDC short-term swell capacity)

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

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

Transient protection: 250-480 VDC models tested to withstand up to 6kV/3kA per IEEE C62.41

THD: <20%

Power Factor: >0.9

Fusing: Internal

Power Supply:

ALT: Over 15 yr equivalent at 24/7 service (accelerated life testing)

MTBF: Over 300 years with annual failure rate less than 0.3% expected (mean time between failures)

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:

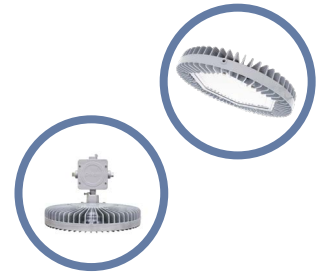
CRI: 80, 70

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

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

DC Crane Vigilant® LED High Bay - UL / CSA

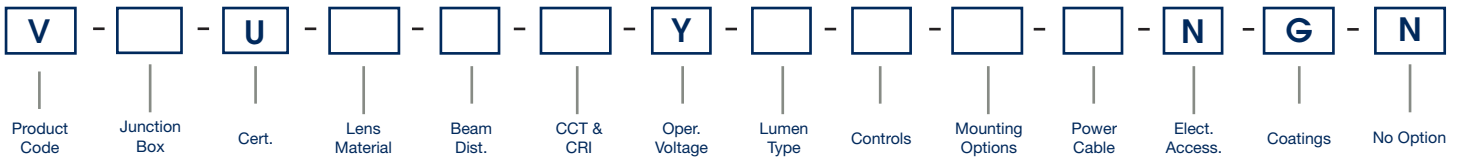
Ordering Information



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

Specifications

Ordering Information



Product Code	CCT & CRI	Controls	Electrical Accessories*
V Vigilant® Ultra-Efficient	B Cool White 5000K - 70 CRI	D Continuous Dimming	N No Plug
	C Cool White 5000K - 80 CRI	J IntellILED Wireless	*Cord & plug options available upon request
	L Neutral White 4000K - 70 CRI	N No Option	
	N Neutral White 4000K - 80 CRI	Q Microwave Occupancy Sensor 40'²	
Junction Box	Operating Voltage	Mounting Options	Coatings
C Wiring Box	Y 250-480 VDC³	H Hook	G Gray (RAL 7040)
E No Junction Box		N 3/4" NPT	
		P Secondary Retention Bracket	
Certification	Lumen Type¹	Power Cable	Option
U UL 1598/A, CSA	A 12,100 Lumens	N No Cord (Wiring Box only)	N No Option
	B 15,000 Lumens	W 10' [3 meter] Power Cable	
	C 19,100 Lumens		
	E 26,300 Lumens		
	F 30,900 Lumens		
	H 35,700 Lumens		
	J 41,300 Lumens³		
Beam Distribution			
E Aisle			
M Medium			
N Narrow			
R High Efficacy Round			

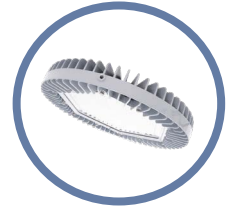
Notes

- 1) Lumen type based on using a glass lens, round optic, 70 CRI. See page 14 for output of other options.
- 2) Occupancy Sensor models are dry locations only and are IP6X rated with a -20°C to +65°C ambient temperature range.
- 3) When ordering Operating Voltage = (Y) and Lumen Type = (J), maximum ambient temperature is +55°C (131°F).

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DC Crane Vigilant® LED High Bay - UL / CSA

Ordering Information - Corded Model


Corded Model - 3/4" Conduit - 250-480 VDC

Part Number	Lumens	Wattage	lm/W	CCT, CRI	Lens	Beam Distribution	Hardware Options	Wiring
VEU-7MCI-CNNW-NGN	17,300	100	173	CW, 80CRI	Glass	Medium	Pendant 3/4" NPT	10' Power Cable
VEU-7MCI-ENNW-NGN	23,800	140	170	CW, 80CRI	Glass	Medium	Pendant 3/4" NPT	10' Power Cable
VEU-7MCI-FNNW-NGN	28,000	165	170	CW, 80CRI	Glass	Medium	Pendant 3/4" NPT	10' Power Cable
VEU-7MCI-HNNW-NGN	32,300	195	166	CW, 80CRI	Glass	Medium	Pendant 3/4" NPT	10' Power Cable
VEU-7MCI-JNNW-NGN	37,400	230	163	CW, 80CRI	Glass	Medium	Pendant 3/4" NPT	10' Power Cable

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

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Accessories



HBXW3-SSL-316
HBXW3-SSL-304

- Stainless steel bracket



HBXCAB48

- 48" long stainless steel safety rope (for use with safety bracket)
- 2 pieces per kit



HBXCG

- Cable gland



HBXDC

- 21° slope dust cover

HBXDC45

- 45° slope dust cover

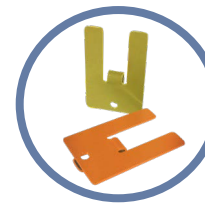
HBXDC60

- 60° slope dust cover



LBXLENP

- Polycarbonate dome lens replacement



HBXFLAG-Y
HBXFLAG-O

- Yellow Aluminum
- Orange Aluminum
- Comes with 10 indicator flags



HBXSB

- Stainless Steel (4x)

Lumen Tables - High Bay

DC Crane Vigilant LED High Bay 250-480 VDC					
Output	Wattage	Optic	Lens Material	70 CRI, 5000K / 4000K CCT	
				Lumen Output	lm/W
J	230	High Efficacy Round	Glass	41,300	180
H	195			35,700	183
F	165			30,900	187
E	140			26,300	188
C	96			19,100	200
B	80			15,000	188
A	65			12,100	186

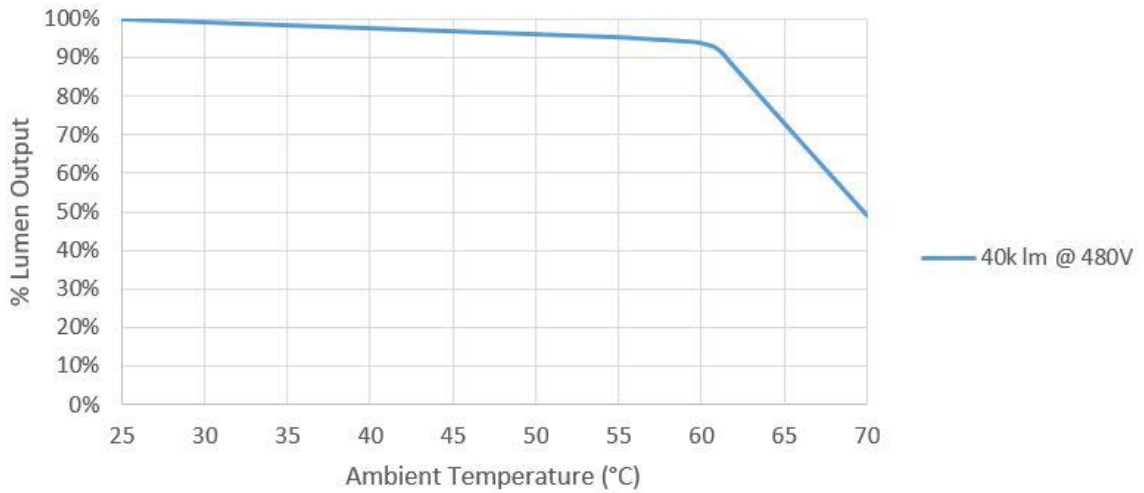
Variable	Type	Scale Factor
Lens	Glass - Clear	100%
	Acrylic - Clear	100%
	Polycarbonate - Clear	99%
	Polycarbonate - Dome Diffused	98%
Optic	Round	100%
	Narrow	97%
	Medium	95%
	Aisle	92%
CCT & CRI	CW 70 CRI	100%
	NW 70 CRI	100%
	CW 80 CRI	96%
	NW 80 CRI	96%

Lumen Maintenance Factor

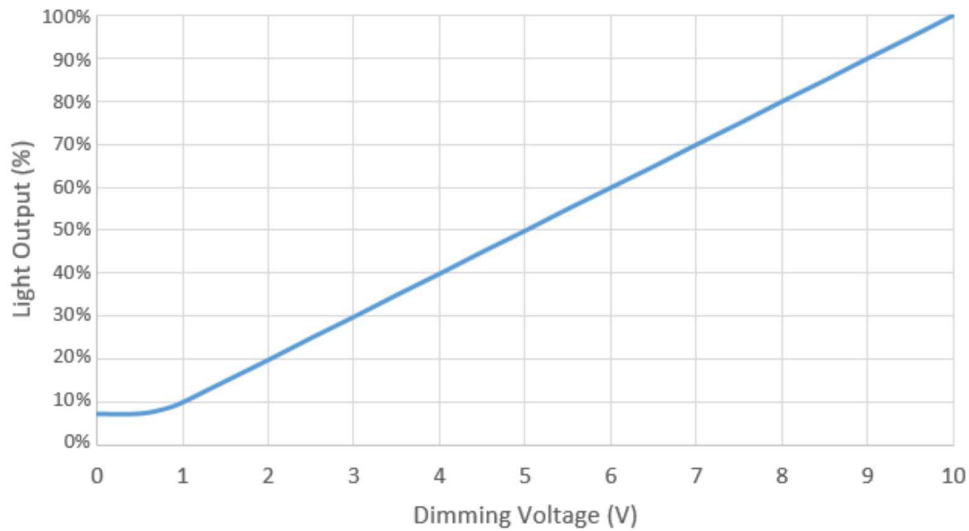
% Lumen Output (40k lm @ 480V)									
Ambient Temp (°C)	Hours								
	0	15000	30000	45000	60000	75000	90000	100000	150000
25	100%	96%	93%	90%	87%	84%	91%	80%	71%
30	99%	96%	92%	89%	87%	84%	90%	79%	71%
35	98%	95%	92%	89%	86%	83%	90%	79%	70%
40	98%	94%	91%	88%	85%	82%	89%	78%	70%
45	97%	93%	90%	87%	84%	81%	79%	77%	69%
50	96%	92%	89%	86%	83%	80%	78%	76%	67%
55	95%	91%	88%	85%	82%	79%	77%	75%	66%
60	94%	90%	87%	84%	81%	78%	75%	73%	65%
65	73%	70%	67%	65%	63%	60%	58%	56%	50%

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Thermal Roll-Off



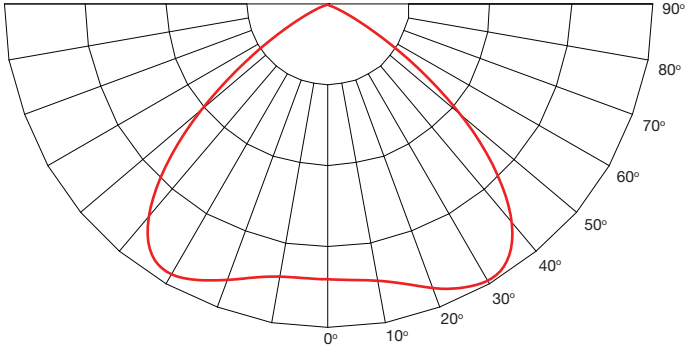
Dimming Characterization 0-10V



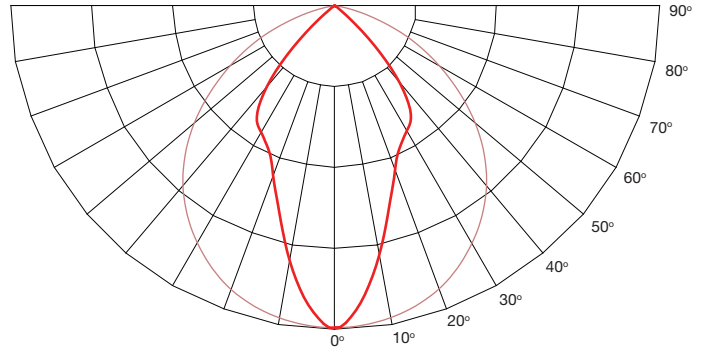
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Beam Distribution

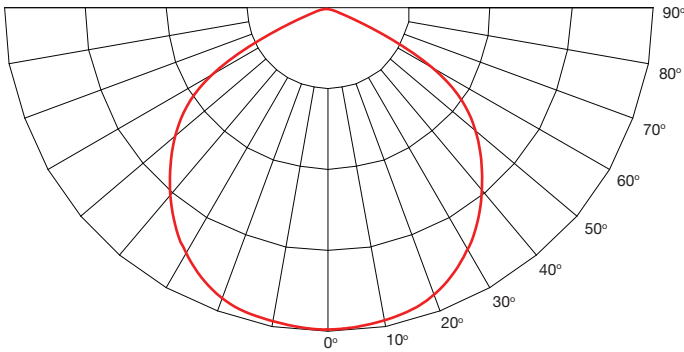
Medium



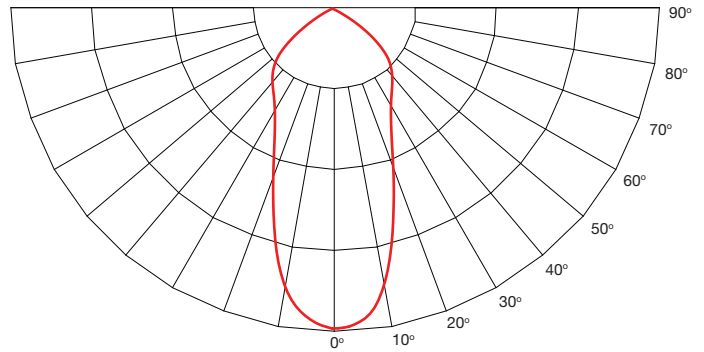
Aisle



Round



Narrow



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In-rush Current

250-480 VDC Models

Product	Output	Max Wattage	Inrush Current @ Input Voltage			Approximate Time Duration (T50) of Inrush Current		
			250 VDC	347 VDC	480 VDC	250 VDC	347 VDC	480 VDC
High Bay	11k	69	2.9	4.1	5.7	1.5	1.5	1.5
	14k	84	2.9	4.1	5.7	1.5	1.5	1.5
	18k	108	2.9	4.1	5.7	1.5	1.5	1.5
	26k	160	2.9	4.1	5.7	1.5	1.5	1.5
	30k	189	2.9	4.1	5.7	1.5	1.5	1.5
	35k	221	2.9	4.1	5.7	1.5	1.5	1.5
	40k	261	2.9	4.1	5.7	1.5	1.5	1.5

Breakers

250-480 VDC Models

Product	Output	Max Wattage	Maximum # of Lights per Breaker @ 250 VDC			Maximum # of Lights per Breaker @ 347 VDC			Maximum # of Lights per Breaker @ 480 VDC		
			C10	B16	C16	C10	B16	C16	C10	B16	C16
High Bay	11k	69	23	38	38	33	52	52	45	72	72
	14k	84	19	31	31	27	43	43	37	59	59
	18k	108	15	24	24	21	33	33	29	46	46
	26k	160	10	16	16	14	22	22	19	31	31
	30k	189	6	9	9	8	13	13	11	17	17
	35k	221	7	12	12	10	16	16	14	23	23
	40k	261	6	10	10	9	14	14	12	19	19

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