

CUSTOMER NAME _____

Project Name _____

Date _____ Type _____

Catalog Number _____

ABX Series

LED High Bay Lighting

The **ABX LED High Bay** delivers high efficacy and long-lasting performance for industrial and commercial spaces. Designed to replace 150W–1500W HID and multi-lamp fluorescent fixtures, its compact housing simplifies installation while ensuring durability. Integrated Daintree® controls enable advanced energy management, and optional optics to provide precise light distribution for specialized applications.

CONSTRUCTION

Housing:	Premium aluminum heatsink / housing with steel driver box
Lens:	Polycarbonate, Acrylic
Paint:	Powder coat painted housing No glass in housing or lenses
Weight:	10–11 lbs (4.55–4.99 kg) per module (see dimensional drawings)
Optical Assembly:	Polycarbonate reflective optics with optional lens

CONTROLS

Dimming:	Standard 0–10VDC, 10% or DALI
Controls:	High-end trim, occupancy and ambient light detection with dimming available. Wireless Daintree® options available.

LUMEN AMBIENT TEMPERATURE

TYPE	TEMPERATURE RATE
OPERATING TEMPERATURE	–30°C to +55°C (–22°F to 131°F)
STORAGE TEMPERATURE	–40°C to +70°C (–40°F to 158°F)

OPTICAL SYSTEM

Distribution:	Very Wide, Wide, General, Medium and Narrow
Lumens:	9,000–60,000
Efficacy:	Up to 192 LPW
CCT:	3000K, 3500K, 4000K, 5000K
CRI:	70, 80, & 90

LUMEN MAINTENANCE

ESTIMATED LXX(10K) @ HRS 250,000 HR AT 25°C	REPORTED LXX(10K) @ HRS 65,000 HR AT 25°C	LXX(10K) @ HOURS 100,000 HR AT 55°C
L70	L90	L70

ELECTRICAL

Input Voltage:	120V–277V, 347V, & 480V
Input Frequency:	50/60Hz
LED Driver Type:	Designed to exceed 100,000 hrs of operation at worst possible rated conditions
Power Factor (PF)*:	>0.9*
Total Harmonic Distortion (THD)*:	<20%*
Surge Protection:	Tested per ANSI C136.2-2015, 10kV surge protection standard
EMI:	FCC CFR Title 47 Part 15, Class A

* PF and THD may vary with options

MOUNTING & ACCESSORIES

- **Typical Mounting:**
 - Standard: Chain/Cable mount ready
 - Optional: Threaded rod kit & Surface mount, pendant mount kit, 5–20ft gripple cable, v-hanger with 3ft chain
- **Packaging:** standard job pack (contractor friendly) and optional individual pack
- **Standard:** Knockout access (no cord, no plug)
- **Cord & Plugs:**
 - 6 ft, 12 ft, 15 ft, 20 ft cord options
 - 5A, 20A, Straight or twist lock plug
 - Modular cord available
- **Wire Guard Option Available**
- **Integral and Accessory EMBB Options Available**

DESIGN LIFE & WARRANTY

- **Reliability Testing:** Fixture components designed to exceed 100,000 hrs of operation at the worst possible rated conditions.
- **Certification:** UL/cUL listed for damp location, RoHS, IP20, IP50 when lens is applied
- **Current's Limited 5-year Warranty:** See website
Certain airborne contaminants can reduce integrity of acrylic material and LEDs and may negatively affect the functioning of the LEDs and other electronic components, depending on factors such as concentration levels, ventilation and temperature. (Contact manufacturer for list of substances)





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Ordering Information

Light Gray Shading = Service Program **QS10**
Limit of 800 Luminaire

ABX

PRODUCT ID	VOLTAGE	LUMEN OUTPUT	PERFORMANCE	CCT/CRI	OPTICS/LENS	CONTROLS
ABX	0 = 120-277	09 = 9,000lm ¹	T = Standard	70 Plus CRI	Open Optic	QQ = Dimming leads not externally accessible
	1 = 120	12 = 12,000lm	H = High Performance ¹	47 = 4000k	Max Efficiency	QV = 0-10V Dimming
	4 = 277	15 = 15,000lm	Please review performance data on the following page	57 = 5000k	W1 = 120° No Lens	DL = DALI Driver
	D = 347 ²	18 = 18,000lm		80 Plus CRI	G1 = 90° No Lens	Daintree[®] Networked:
	5 = 480 ²	24 = 24,000lm		38 = 3000k	M1 = 50° Textured	NA = Occupancy & Ambient Light Sensor, w/ Continuous Dimming (full feature) ³
	30 = 30,000lm		48 = 4000k	N1 = 30° Textured	TQ = Wireless Daintree [®] Enable ^{2,3}	
	36 = 36,000lm		58 = 5000k	Clear lens	Daintree[®] EZ Connect:	
	48 = 48,000lm		90 Plus CRI	Moderate glare control	DF = Occupancy & Ambient light sensor w/ Continuous Dimming ³	
	60 = 60,000lm		C9 = 3500k	VW = 160° Clear	Daintree[®] One:	
			49 = 4000k	WC = 120° Clear	FB = Occupancy & Ambient Light Sensor with Continuous Dimming ³	
				GC = 90° Clear	3rd Party Options:	
				MC = 55° Clear	QA = Occupancy Sensor On/Off + Dimming ³	
				GC = 30° Clear	QB = Occupancy Sensor On/Off + Dimming ³	
				Diffused lens	QP = Daylight Sensor w/Occupancy On/Off + Dimming ³	
				Maximum glare control	AN = Athena Node ³	
				WD = 120° Diffused	XX = Custom Sensor Per Request —Upon Approval	
				GD = 90° Diffused		
				MD = 50° Diffused		
				ND = 30° Diffused		

MOUNTING	CORD ¹	PLUG	FINISH	OPTIONS
ST = Standard (chain mount ready, no hardware provided)	K = Knockout	Q = None	NATL = Galvanized Natural Driver Box Only	Blank = No Special Options
V3 = V-hangers + 3ft Chain	A = 6ft. 18ga black cord	A = 15A Straight Plug	WHITE = White	1PK = Single Pack
SM = Surface Mount	B = 12ft. 18ga black cord	B = 20A Straight Plug	BLACK = Black	E20 = Emergency Unit 20W ^{11, 12, 13, 14, 15, 16, 19}
22 = ½" Threaded rod mount kit (Rod and nut not included)	C = 15ft. 18ga black cord	C = 15A Twist Lock Plug		GTD = Generator Transfer Device ^{15, 17, 18}
23 = ¾" Pendant Mount Kit	D = 20ft. 18ga black cord	D = 20A Twist Lock Plug		WC = White Cord ^{7, 8}
41 = Y-Cable/ Hook 5ft	Specialty Modular Cord Sets:			5C = 5 Conductor cord ^{9, 10}
42 = Y-Cable/ Hook 10ft	FS = RELOC 10FT 18GA White Cord ^{5, 7}			
43 = Y-Cable/ Hook 15ft	GS = RELOC 15FT 18GA White Cord ^{5, 7}			
44 = Y-Cable/ Hook 20ft	LE = ACS - MC			
UP = Inverted Mount ³	Flex3 + 10FT 2EA 10-LW 277/480 #16AWG ^{6, 8}			
61 = Inverted Mount Y-Cable/ Hook 5ft ³	NE = ACS - MC			
62 = Inverted Mount Y-Cable/ Hook 10ft ³	Flex3 + 12FT 2EA 12-LW 277/480 #16AWG ^{6, 8}			
63 = Inverted Mount Y-Cable/ Hook 15ft ³				
64 = Inverted Mount Y-Cable/ Hook 20ft ³				

ORDERING NOTES:

- 9,000 lumen is not available with High Efficiency
- TQ not available in 347/480V
- Inverted mounting is not available with controls NA, DF, FB, QA, QB, QP, TQ, DL, AN, TQ
- Must specify discrete voltage. See NEMA Plug Type Table.
- Plug Option "S" is available with voltage 120, 277, 480, 347
- Plug Option "E" is available with voltage 277, 480
- RELOC options are white cords
- Not available on white color ACS options are MC Cables
- 5C is only available with controls QV, with Cord A, B, C, D and plug option Q
- 5C not available with E20 or GTD
- E20 only available with Cords K, A, B, C, D without plug (Contact Manufacturer for specialty and regular cord feasibility)
- E20 with 347/480 voltage is not available with mounting SM, 22, 23, V3
- E20 with 347/480 voltage is not available with controls NA, DF, FB, QA, QB, DL, AN, TQ
- E20 Only available with Single Pack
- E20 and GTD are not available with Inverted mountings
- E20 with 347/480 voltage is only available with colors White and Black
- GTD not available in 347/480V
- GTD not available with cords
- E20 is not available with GTD

Note: Please contact your sales rep for any customization required.



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Performance Information

	LUMEN PACKAGE	BODY SIZE	LPW	MEASURED WATTAGE	MAX AMBIENT
STANDARD PERFORMANCE	9,000	1S	188	48	45
	12,000	1S	180	67	
	15,000	1S	173	87	
	18,000	1S	172	105	
	24,000	1S	159	151	
	30,000	1S	165	182	
	36,000	1D	172	209	
	48,000	2S	162	296	
	60,000	2S	167	360	

	LUMEN PACKAGE	BODY SIZE	LPW	MEASURED WATTAGE	MAX AMBIENT
HIGH PERFORMANCE	12,000	1S	192	63	55
	15,000	1S	189	80	
	18,000	1S	186	97	
	24,000	1S	176	137	
	30,000	1D	186	161	
	36,000	2S	188	191	
	48,000	2S	180	267	
	60,000	2D	192	313	

OPTIC CODE	OPTIC LENS	OUTPUT
W1	120° No Lens	100%
WD	120° Diffused Lens	93%
WG	120° Clear Lens	98%
G1	90° General No Lens	98%
GD	90° General Diffused	91%
GC	90° General Clear	96%
M1	55° Medium Textured	96%
MD	55° Medium Diffused	92%
MC	55° Medium Clear	96%
N1	30° Narrow Textured	92%
ND	30° Narrow Diffused	92%
NC	30° Narrow Clear	96%
VW	160° Very Wide Beam	94%

Optics	IK rating	MATERIAL
W1	IK10	n/a
WD	IK10	Polycarbonate
WC	IK07	Acrylic
G1	IK10	n/a
GD	IK10	Polycarbonate
GC	IK07	Acrylic
M1	IK07	Acrylic
MD	IK07	Acrylic
MC	IK07	Acrylic
N1	IK07	Acrylic
ND	IK07	Acrylic
NC	IK07	Acrylic
VW	IK07	Acrylic

CRI	CCT	MULTIPLIER
70	4000	100%
	5000	100%
80	5000	92%
	4000	92%
	3500	90%
90	3000	87%
	3500	83%
	4000	81%

LPW/LUMEN SPECS BASED ON W1 DISTRIBUTION
De-rate 10° C for "SM" Surface Mount Option

NEMA PLUG TYPE				
VOLTAGE	A (15A STRAIGHT)	B (20A STRAIGHT)	C (15A TWIST LOCK)	20D (1 A TWIST LOCK)
120	5-15P	5-20P	L5-15P	L5-20P
277	7-15P	7-20P	L7-15P	L7-20P
347	24-15P	24-20P	N/A	L24-20P
480	N/A	N/A	N/A	L8-20P

Wire Guards:

ABX BODY SIZE	SAP #	SAP DESCRIPTION
ABX 1S	93318569	CUR HB WG 2 10 PK
ABX 1S + End Mount Sensor	93318570	CUR HB WG 2 SMS 10 PK
ABX 2S	93318571	CUR HB WG 3 10 PK
ABX 2S + End Mount Sensor	93318572	CUR HB WG 3 SMS 10 PK
ABX 2D	93318573	CUR HB WG 4 5 PK
ABX 2D + End Mount Sensor	93318574	CUR HB WG 4 SMS 5 PK

*SMS = Use with end mount sensor.
Controls Option Codes QA, QB, AP use end mount sensor.
If sensor is end mounted, order wireguard for fixture body size with 'SMS' in description.

All highbay wireguards are priced as single accessories and must be ordered as single accessories. Standard packaging is a master carton containing 5 or 10 wireguards depending on fixture body size.

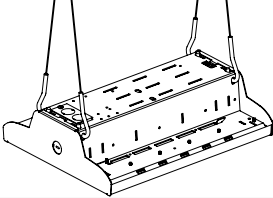
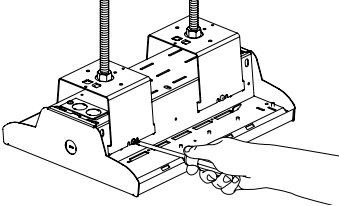
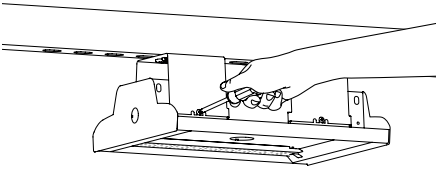
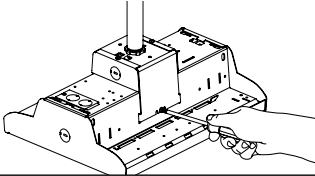
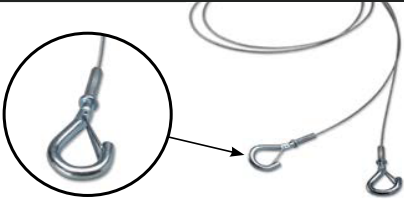
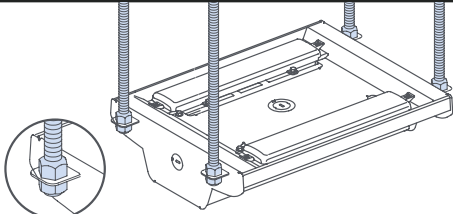
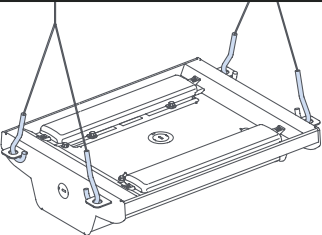
[See Highbay Wireguard Installation Sheet for more details](#)



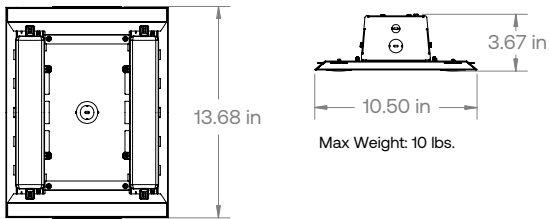
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MOUNTING AND ACCESSORIES:

MOUNTING OPTIONS	IMAGE	ORDER LOGIC CODE	AFTERMARKET ORDER LOGIC
<p>Standard Chain/ Cable Mount</p> <p>Available on all fixture configurations (chain not included). Y-Cable w/hook can be ordered as an accessory.</p>		<p>ST = Standard (No chain or mounting hardware included)</p>	<p>Aftermarket: NA</p>
<p>Rod Mount (optional)</p> <p>Available on all fixture configurations. Attaches to 1/2" threaded rod (rod and nuts not included).</p>		<p>22 = 1/2" Threaded Rod Kit</p>	<p>SKU: 93120346G Description: 1/2" Surface Mounting Kit NOTE: Kit included two (2) brackets.</p>
<p>Surface Mount (optional)</p> <p>Available on all fixture configurations. Attaches to structural member in ceiling. (Hardware not included.)</p>		<p>SM = Surface Mount</p>	
<p>Pendant Mount (optional)</p> <p>Available on all fixture configurations. Attaches to 3/4" threaded conduit. (conduit not included).</p>		<p>23 = 3/4" Pendant Mount Kit</p>	<p>SKU: 93120347G Description: 3/4" Pendant Mounting Kit</p>
<p>Y-Cable w/hook (optional)</p> <p>Use with Standard Mounting Option only. Order separately. Price adder per pair: 5 ft., 10 ft., 15 ft., 20 ft. lengths available.</p>			<p>(41) Y-Cable/Hook 5ft: 93075756G (42) Y-Cable/Hook 10ft: 93075552G (43) Y-Cable/Hook 15ft: 93075553G (44) Y-Cable/Hook 20ft: 93075554G</p>
<p>Standard Inverted Mount</p> <p>Available on all fixture configurations. Attaches to 3/4" threaded rod (rod not included)</p>		<p>UP = Standard Inverted Mount</p>	<p>Aftermarket: NA NOTE: Dimensions center hole to center hole of inverted mount are: Single-Wide (1S, 2S, 3S housings): Width 7.4" Double-Wide (1D, 2D, 3D housings): Width 12.06" Lengths: 14.87" (1S/1D), 28.42" (2S, 2D), 41.97" (3S, 3D)</p>
<p>Inverted Y- Cable Mount</p>		<p>61 = Inverted Mount Y-Cable/ Hook 5ft 62 = Inverted Mount Y-Cable/ Hook 10ft 63 = Inverted Mount Y-Cable/ Hook 15ft 64 = Inverted Mount Y-Cable/ Hook 20ft</p>	<p>Aftermarket: NA NOTE: Dimensions center hole to center hole of inverted mount are: Single-Wide (1S, 2S, 3S housings): Width 7.4" Double-Wide (1D, 2D, 3D housings): Width 12.06" Lengths: 14.87" (1S/1D), 28.42" (2S, 2D), 41.97" (3S, 3D)</p>

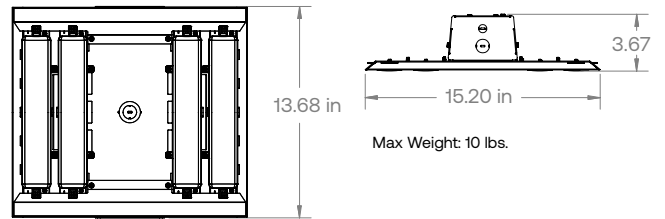
1S MODULE



Standard: 9K, 12K, 15K, 18K, 24K, 30K Lumen

Performance: 12K, 15K, 18K, 24K Lumen

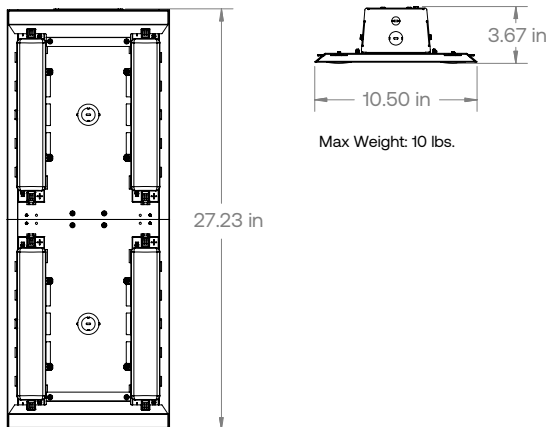
1D MODULE



Standard: 36K Lumen

Performance: 30K Lumen

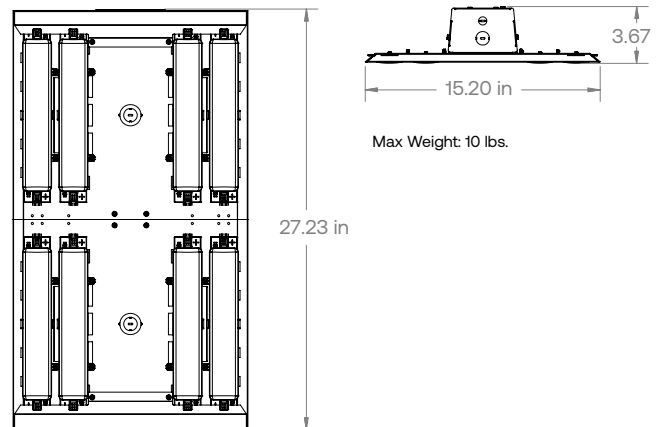
2S MODULE



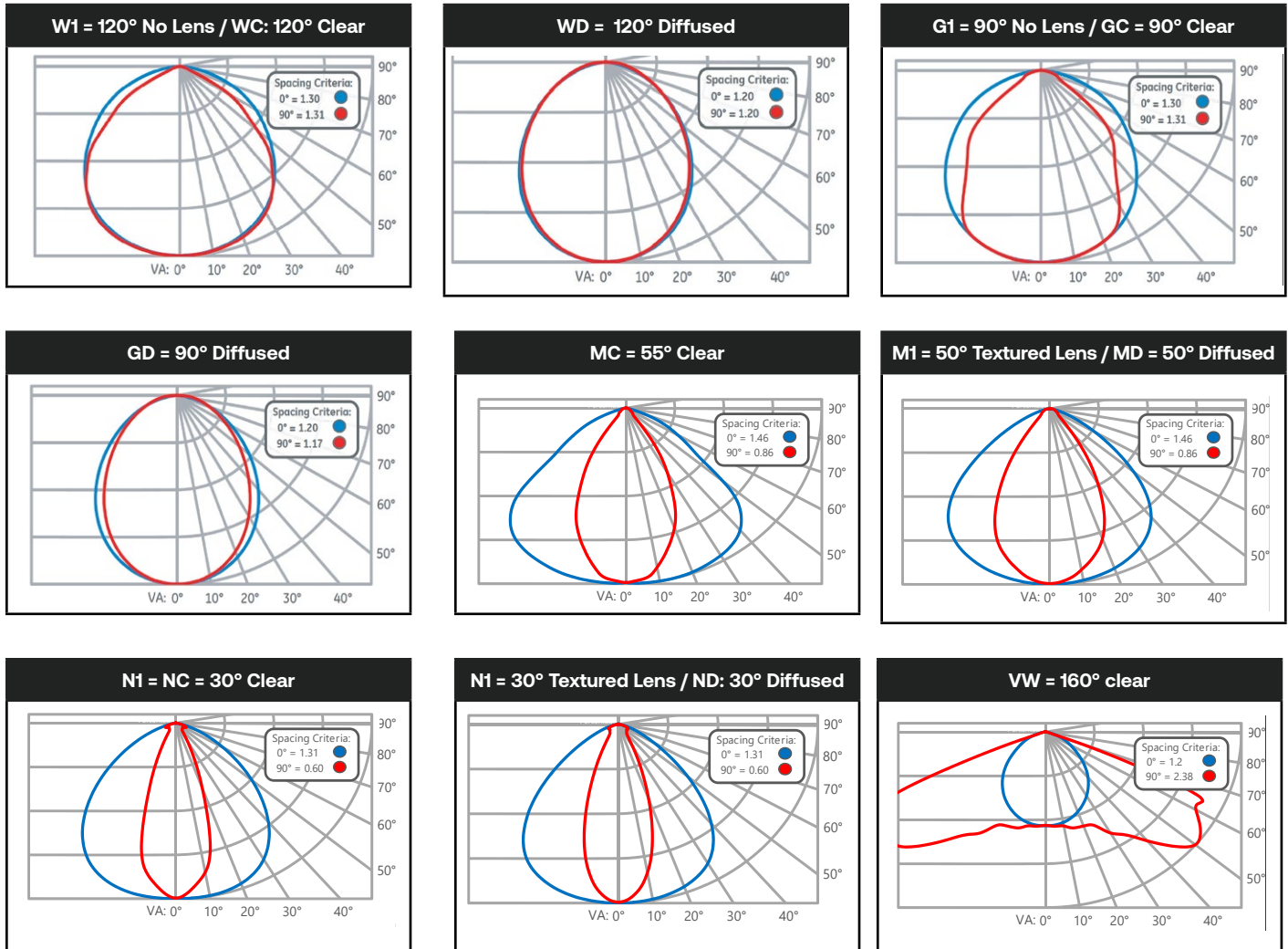
Standard: 48K, 60K Lumen

Performance: 36K, 48K Lumen

2D MODULE



Performance: 60K Lumen

PHOTOMETRIC DATA


WIRELESS NETWORKING AND SENSING DEVICE OPTIONS*

- **Daintree® One:** Wireless fixture integrated sensor that is perfect for single fixtures or small area applications. Standalone wireless lighting controls that work independently. Comes preset from the factory, yet can be upgraded to Daintree EZ Connect and/or Daintree Enterprise in the future. Factory preset to shut off 20 minutes after the space is vacated of occupants. Daylight harvesting preset enabled on.
- **Daintree® EZ Connect:** Wireless fixture integrated sensor that is designed for room based controls where a group of fixtures communicate to each other and communicate wirelessly in chorus as a system. The advantage is simple, minimal field based commissioning. Factory preset to shut off 20 minutes after the space is vacated of occupants. No daylight harvesting set in initial preset. EZ Connect wireless lighting controls are set up and/or can be changed by the Daintree EZ Connect application that can be downloaded via a smart device.
- **Daintree® Enterprise:** Wireless fixture integrated sensor technology that is ideal for multisite lighting system management. System requires software and commissioning. Monitor multiple controls, lighting, energy, HVAC with unlimited potential for other (3rd party) sensor integration. “Open on the bottom” means that ZigBee communication protocol is an industry standard with countless wireless hardware sensing options. “Open on the top” means that the data from the sensors can be used by any 3rd party software supplier/developer, be it part of a complete BMS system or simple API (Application Programming Interface or “App”). Daintree Enterprise offers a complete future proof solution from any Daintree enabled installed base of fixtures.

*Contact Factory for specific option availability

WHRI IR REMOTE



ABX WITH DAINTREE WIRELESS CONTROL MODULE

