Albeo® LED Luminaires
ABV3 series | LED High Bay Lighting

CUSTOMER NAME _____

Project Name _____

Date _____ Type_____

Catalog Number _____

The **Albeo® ABV3** LED luminaire is an exceptional mixture of value and performance. Ideal for high bay and low bay applications in industrial and commercial buildings. Designed to replace 150W–1500W HID and four-to-eight lamp T5/T8 fixtures with unmatched reliability and quality. Now with integral Daintree® sensors and controls. See optic **3T** for aisle distribution!

CONSTRUCTION

Housing:	Combination steel and aluminum
Lens:	Polycarbonate diffused, acrylic clear
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

OPTICAL SYSTEM

Distribution:	120°, 90°, 55°, 30°, diffused, textured & clear lens options. Aisle Distribution available (option 3T)
Lumens:	9,000–90,000
Efficacy:	Up to 200 LPW
CCT:	3000K, 3500K, 4000K, 5000K
CRI:	70, 80, & 90

ELECTRICAL

Input Voltage:	120V–277V, 347V, & 480V
Input Frequency:	50/60Hz
Power Factor (PF)*:	>0.9*
Total Harmonic Distortion (THD)*:	<20%*
EMI:	FCC CFR Title 47 Part 15, Class A
Surge Protection:	• **120–277V:** 3kV surge protection, standard • **347–480V:** 6kV surge protection, standard *For increased surge protection please contact manufacturer.*
LED Driver Type:	• **All 347–480V SKUs:** Class 1, 6kV surge • **All 120–277V SKUs:** Class 1, 3kV surge

* PF and THD may vary with options

CONTROLS

Dimming:	Standard 0–10VDC,10%
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)

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

MOUNTING & ACCESSORIES

- **Typical Mounting:**
  - Standard Chain/Cable mount ready
  - Threaded rod kit & Surface mount optional
  - Pendant mount kit optional
- **Typical Mounting:**
  - Standard Chain/Cable mount ready
  - Rod Inverted Mounting option, see pg. 4
- **Cord & Plugs:**
  - Standard = knockout access (no cord, no plug) 6 ft, 12 ft, 15 ft, 20 ft cord options
  - 5A, 20A, Straight or twist lock plug- Plugs A, B, C, or D
  - Reloc OCS Cord-Plug FS or GS
  - Plug-N-Go Cord-Plug MF or HF
- **Wire Guard Option Available**
- **Integral and Accessory EMBB Options Available**

DESIGN LIFE & WARRANTY

- UL 1598 Suitable for Damp Locations
- **Safety:** UL/cUL Listed
- **Packaging:** Standard job pack contain 7–21 fixtures. Orders of <14 are typically single pack. 90T & 90H are bulk pack only.
- **Current's Limited 5-year Warranty:** Please refer to **IND599** in Product Downloads section at: https://products.gecurrent.com

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Daintree WIRELESS CONTROLS   QuickShip   DIMMABLE   5 YEAR WARRANTY   RoHS COMPLIANT   UL CERTIFIED   DLC PREMIUM   DLC Premium on all 70 CRI, H Output, & select 80 CRI options.

Albeo® LED Luminaires
ABV3 series | LED High Bay Lighting

Ordering Information

Ordering Information:

ABV3

– – – –   –   – –   –   – –   – –   – –   – –   –   –   –   – – –

PRODUCT ID	VOLTAGE[1]	LUMEN OUTPUT	PERFORMANCE LEVEL	CCT/CRI	OPTICS/LENS	CONTROLS	MOUNTING	CORD[8]	PLUG[9]	FINISH	OPTIONS
ABV3 = Albeo® Highbay ABV 3rd Gen	**0** = 120–277 **1** = 120 **2** = 208 **3** = 240 **4** = 277 **5** = 480 **D** = 347	**09** = 9,000lm **12** = 12,000lm **15** = 15,000lm **18** = 18,000lm **24** = 24,000lm **30** = 30,000lm **36** = 36,000lm **48** = 48,000lm **60** = 60,000lm **90** = 90,000lm	**T** = Standard Efficiency **H** = High Performance	**70 Plus CRI** **47** = 4000k **57** = 5000k **80 Plus CRI** **38** = 3000k **C8** = 3500k **48** = 4000k **58** = 5000k **90 Plus CRI** **C9** = 3500k **49** = 4000k	**Open Optic:** Max. Efficiency **1Q** = 120˚ No Lens **9Q** = 90˚ No Lens **Clear Lens:** Moderate Glare Reduction **1C** = 120˚ Clear **9C** = 90˚ Clear **5C** = 55˚ Clear **3C** = 30˚ Clear **WC** = Wide Parking Garage Optic **Diffused Lens:** Max. Glare Reduction **1D** = 120˚ Diffused **9D** = 90˚ Diffused **5T** = 55˚ Textured Diffused **3T** = 30˚ Textured Diffused (ASLE)	**QQ** = No 0-10V Dimming **QV**[2] = 0–10V Dimming **Daintree® Networked:** **NA** = Occupancy & Ambient Light Sensor, w/ Continuous Dimming (full feature) **TQ**[3] = Wireless Daintree® Enabled (no sensor) **Daintree® EZ Connect**[15]: **DF** = Occupancy & Ambient light sensor w/ Continuous Dimming **Daintree® One**[16]: **FB** = Occupancy & Ambient Light Sensor with Continuous Dimming **Daintree® One Custom Options**[16]: **FF** = Occupancy w/ Continuous Dimming **FH** = Occupancy On/Off **FK** = Ambient Light Sensor w/ Continuous Dimming **FM**[4] = Ambient Light Sensor On/Off **3rd Party Options:** **AQ**[5] = Occupancy Sensor On/Off 360° LSXR, No External Wiring **BQ**[5] = Occupancy Sensor Continuous Dimming 360° LSXR **PQ**[5] = Daylight Sensor w/occupancy On/Off LSXR, No External Wiring, Full Featured **2Q**[6] = Motion Sensor w/ Daylight, High-Low Dimming FSP-211, and IR Remote Adjustable (IR remote sold separately to modify default settings)[17]	**ST** = Standard (no hardware included) **22** = 1/2" Threaded rod mount kit (Rod and nuts not included) **SM** = Surface Mount (no hardware included) **23** = 3/4" Pendant Mount Kit (3/4" Conduit not included) **41** = Y-Cable/ Hook 5ft. **42** = Y-Cable/ Hook 10ft. **43** = Y-Cable/ Hook 15ft. **44** = Y-Cable/ Hook 20ft. **UP** = Standard Inverted Mount **61**[7] = Inverted Mount Y-Cable/ Hook 5ft. **62**[7] = Inverted Mount Y-Cable/ Hook 10ft. **63**[7] = Inverted Mount Y-Cable/ Hook 15ft. **64**[7] = Inverted Mount Y-Cable/ Hook 20ft.	**K** = Knockout **A** = 6ft. 18ga Black cord **B** = 12ft. 18ga Black cord **C** = 15ft. 18ga Black cord **D** = 20ft. 18ga Black cord **Specialty Modular Cord Sets:** **FS**[10] = Reloc OCS - 10ft. 18ga White Cord **GS**[10] = Reloc OCS - 15ft. 18ga White Cord **MF**[10] = Plug-N-Go - 3ft. 18ga Black Cord **HF**[10] = Plug-N-Go - 10ft. 18ga Black Cord **LE**[11] = ACS - MC Flex3+ 10ft 2EA 10-LW 277/480 #16AWG **NE**[11] = ACS - MC Flex3+ 12ft 2EA 12-LW 277/480 #16AWG	**Q** = None **A** = 15A Straight Plug **B** = 20A Straight Plug **C** = 15A Twist Lock Plug **D** = 20A Twist Lock Plug	**W** = White Powder Coat **K**[12] = Black Powder Coat **E** = Emergency Orange Powder Coat	**Blank** = No Special Options **1PK**[13] = Single Pack for distributor stocking. Default is Job Pack (7–21). **E20**[18, 19, 20] = integrated emergency battery pack, Certified in CA Title 20 MAEDBS. (Bodine BSL20B2). **ZL1** = WHS20 Low Lens (2.5m or 8ft) **ZL2** = WHS20 Medium Lens (6m or 20ft) **ZLX** = WHS20 Aisle Mask

ORDERING NOTES:
1. Specify single voltage if plug, LSXR sensor, or 'TQ' wireless control > 24,000lms needed.
2. Contact factory if 5-conductor cord is needed.
3. T Wireless Control (no sensor) must use Discrete Voltage for all Lumen packages over 24,000Lm.
4. 40ft (12m) height, WHR1 IR Remote 93131632.
5. 15–45ft (4.6–13.7m) mounting heights.
6. Sensors not compatible with 90T or 90H lumen code due to height limitation of sensor
7. Inverted options may not be ordered with sensor or 'K' (black) finish
8. 3-conductor cords. Dimming leads separate if controls option QV is selected. Contact factory if 5-conductor cord is needed.
9. 3-conductor cords. Dimming leads separate if controls option QV is selected. Contact factory if 5-conductor cord is needed.
10. Must Specify discrete voltage.
11. Available with Voltage 4 or 5 only.
12. Not available for inverted mount (UP, 61, 62, 63, 64). If sensor is ordered, please contact factory.
13. Not Available for 90T & 90H.
14. Battery Backup not available for 347V/480V Option requires additional wiring in the field. See installation instructions. Not compatible with 'K' finish. Contact factory if cord is required. See ALB030 for wiring diagrams.
15. Ambient light detection functionality must be turned on in the Daintree EZ Connect app.
16. Daintree One devices can be customized and programmed with WHR1 remote.
17. 2Q devices can be programmed with FSP remote (SHU# 93076263).
18. Emergency unit and 347/480VAC version not available with mounting SM and 23.
19. Standard 4-wire cord available (L1, L2, N, G). Not with plugs.
20. Contact manufacturer for specialty cord feasibility.

NOTE:

See WHS20 spec sheet for default program parameters and occupancy detection patterns.
- Daintree Wireless Controls can be upgraded over time for greater functionality.
- WHR1 Remote PN: 93131632
- Daintree EZ Connect App can be downloaded on the Apple® App Store.
- 40ft (12m) mounting height.

CUSTOMER NAME _____

Project Name _____

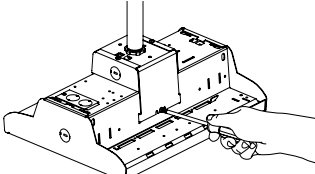Date _____ Type _____

Catalog Number _____

70 CRI @ 4000K OR 5000K CCT						
LUMEN PACKAGE	OUTPUT LEVEL	TYPICAL DELIVERED LUMENS	TYPICAL POWER		TYPICAL LPW 120–277V	MODULE BODY
			120–277V	347/480V		
09	T	9,000	50	52	180	1S
09	H	9,000	46	48	196	1S
12	T	11,900	68	70	175	1S
12	H	11,900	61	63	195	1S
15	T	15,200	92	93	165	1S
15	H	15,200	81	82	188	1S
18	T	17,600	109	110	161	1S
18	H	17,600	88	91	200	1D
24	T	23,400	137	139	171	1D
24	H	23,400	122	124	192	1D
30	T	30,400	184	185	165	2S
30	H	30,500	163	164	187	2S
36	T	35,500	221	222	160	2S
36	H	35,500	190	194	187	2S
48	T	47,400	284	291	167	3S
48	H	47,400	248	257	191	3S
60	T	58,500	360	367	163	2D
60	H	58,500	314	323	186	2D
90	T	87,700	554	554	158	3D
90	H	87,700	483	486	182	3D

*All packages are 55°C rated with the exception of 60T & 90T which is 45°C ambient max rated

OPTIC CODE	OPTIC DESCRIPTION	OUTPUT
1Q	120° No Lens	100%
9Q	90° No Lens	98%
1C	120° Clear Lens	98%
9C	90° Clear Lens	96%
5C	55° Clear Lens	96%
3C	30° Clear Lens	97%
1D	120° Diffused Lens	93%
9D	90° Diffused Lens	91%
5T	55° Textured Diffused Lens	94%
3T	30° Textured Diffused Lens	95%
WC	Wide Parking Garage Optic	94%

CRI	CCT	LUMEN PACKAGE OUTPUT	
		T OUTPUT	H OUTPUT
70	5000	100%	100%
	4000	100%	100%
80	5000	95%	98%
	4000	92%	92%
	3500	90%	92%
	3000	87%	92%
90	3500	79%	78%
	4000	81%	79%
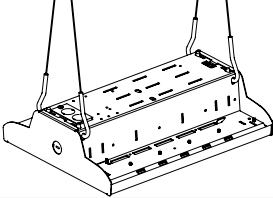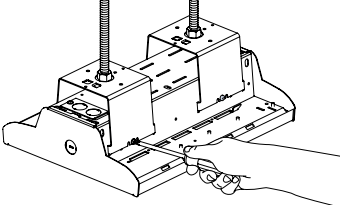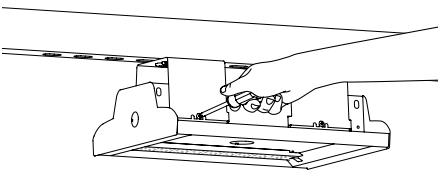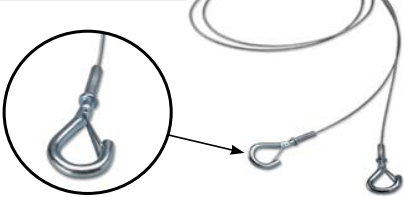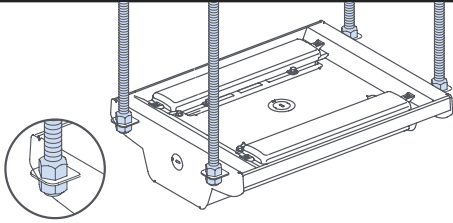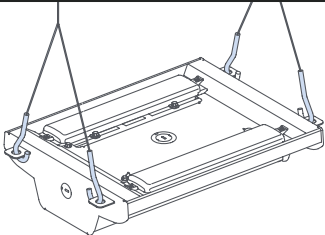
MOUNTING AND ACCESSORIES:

| MOUNTING OPTIONS	IMAGE	ORDER LOGIC CODE	AFTERMARKET ORDER LOGIC
Standard Chain/ Cable Mount Available on all fixture configurations (chain not included). Y-Cable w/hook can be ordered as an accessory.		**ST =** Standard (No chain or mounting hardware included)	**Aftermarket:** NA
Rod Mount (optional) Available on all fixture configurations. Attaches to ½" threaded rod (rod and nuts not included).		**22 =** ½" Threaded Rod Kit	**SKU:** 93120346 **Description:** ½" Surface Mounting Kit **NOTE:** Kit included two (2) brackets.
Surface Mount (optional) Available on all fixture configurations. Attaches to structural member in ceiling. (Hardware not included.)		**SM =** Surface Mount	
Pendant Mount (optional) Available on all fixture configurations. Attaches to ¾" threaded conduit. (conduit not included).		**23** = ¾" Pendant Mount Kit	**SKU:** 93120347 **Description:** ¾" Pendant Mounting Kit
Y-Cable w/hook (optional) Use with Standard Mounting Option only. Order separately. Price adder per pair. 5 ft., 10 ft., 15 ft., 20 ft. lengths available.			**(41) Y-Cable/Hook 5ft:** 93075756 **(42) Y-Cable/Hook 10ft:** 93075552 **(43) Y-Cable/Hook 15ft:** 93075553 **(44) Y-Cable/Hook 20ft:** 93075554
Standard Inverted Mount Available on all fixture configurations Attaches to ⅜" threaded rod (rod not included)		**UP** = Standard Inverted Mount	**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)
Inverted Y- Cable Mount		**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	**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)

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REPLACEMENT LENSES & OPTICS:
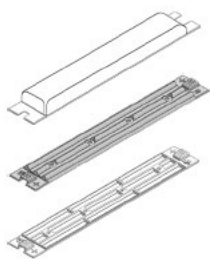
ORDERING SKU	ORDERING CAT# LOGIC	FIXTURE CAT# LOGIC	DESCRIPTION
93075866	ABV3 D Lens Kit	1D or 9D	Diffused Lens Only (2 Lenses) *does not change beam angle
93075867	ABV3 C Lens Kit	1C or 9C	Clear Lens Only (2 Lenses) *does not change beam angle
93146208	ABV3 WC Wide Parking Garage Optic	WC	WC Lens (10 Lenses)
93075988	ABV3 9 Reflector Optic Kit	9C or 9D	90 Degree Optic (2 White Reflectors)
93075989	ABV3 1 Reflector Optic Kit	1C or 1D	120 Degree Optic (2 White Reflectors)
93117671	ABV3 5T Optic Kit	5T	Textured Diffused 55 degree Optic (2 Refractors)
93075991	ABV3 5C Optic Kit	5C	Clear 55 Degree Optic (2 Refractors)
93117672	ABV3 3T Optic Kit	3T	Textured Diffused 30 Degree Optic (2 Refractors)
93075993	ABV3 3C Optic Kit	3C	Clear 30 Degree Optic (2 Refractors)

Check fixture images on pg. 1 to determine how many optics are needed based on housing type.
Example: 60T lumen code = '2D' housing = 8 lenses and/or optics needed = 4 kits

WIRE GUARDS:

ORDERING SKU	ORDERING CAT# LOGIC	FIXTURE CAT# LOGIC	DESCRIPTION
93077600	WG ABV3 1S WT	9T, 9H, 12T, 12H, 15T, 15H, 18T	1S Wire Guard White Painted - 5pk
93077666	WG ABV3 1D WT	18H, 24T, 24H	1D Wire Guard White Painted - 5pk
93077602	WG ABV3 2S WT	30T, 30H, 36T, 36H	2S Wire Guard White Painted - 5pk
93077604	WG ABV3 3S WT	48T, 48H	3S Wire Guard White Painted - 5pk
93077668	WG ABV3 2D WT	60T, 60H	2D Wire Guard White Painted - 5pk

*Wire Guards Kits come in packs of 5pcs

FIELD SWAPPABLE WHS20 SENSOR ACCESSORIES:

ORDERING SKU	ORDERING CAT# LOGIC	DESCRIPTION	QTY
93134998	WHS20_LOW_LENS_KIT	Low Lens: 2.5m (8ft)	1
93134999	WHS20_LOW_LENS_KIT_10		10
93135000	WHS20_MED_LENS_KIT	Med Lens: 6m (20ft)	1
93135001	WHS20_MED_LENS_KIT_10		10
93135002	WHS20_HIGH_LENS_KIT	High Lens: 12m (40ft)	1
93135003	WHS20_HIGH_LENS_KIT_10		10
93134984	WHS20_SNAP_AISLE_MASK_KIT	Snap On Aisle Mask	1
93134985	WHS20_SNAP_AISLE_MASK_KIT_10		10

NOTE: See WHS20 spec sheet for Occupancy Detection Patterns
Default lens is High (12m). For field-installed lenses see ZL1, ZL2, or ZLX option codes in cat logic

STANDALONE EMBB:

ORDERING SKU	ORDERING CAT# LOGIC	DESCRIPTION
93059499	ASM2430	50° beam 1750 lm
93059500	ASM2429	120° beam 1650 lm

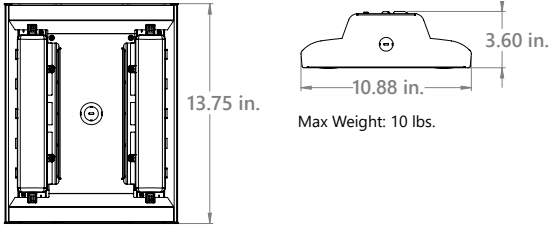**NOTE:** Order as field installed aftermarket or standalone solution for emergency lighting. 2lbs

1S - MODULE - 9T, 9H, 12T, 12H, 15T & 18T OUTPUT

13.75 in.

3.60 in.

10.88 in.

Max Weight: 10 lbs.

1D - MODULE - 15H, 18H, 24T, & 24H OUTPUT

13.75 in.

3.60 in.

15.58 in.

Max Weight: 11 lbs.
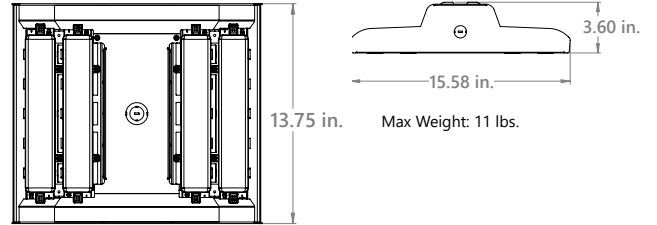
2S - MODULE - 30 & 30H, 36T & 36H OUTPUT

27.30 in.

3.60 in.

10.88 in.

Max Weight: 20 lbs.
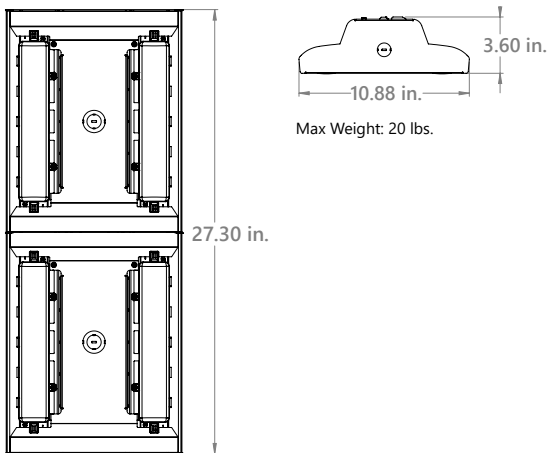
2D - MODULE - 60T & 60H OUTPUT

27.30 in.

3.60 in.

15.58 in.

Max Weight: 22 lbs.
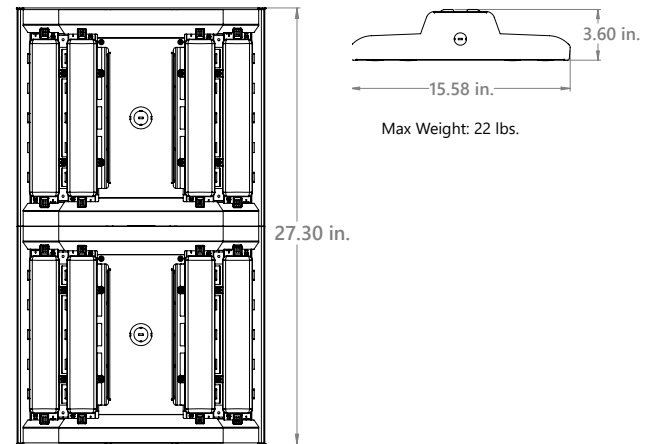
3S - MODULE - 48T & 48H OUTPUT
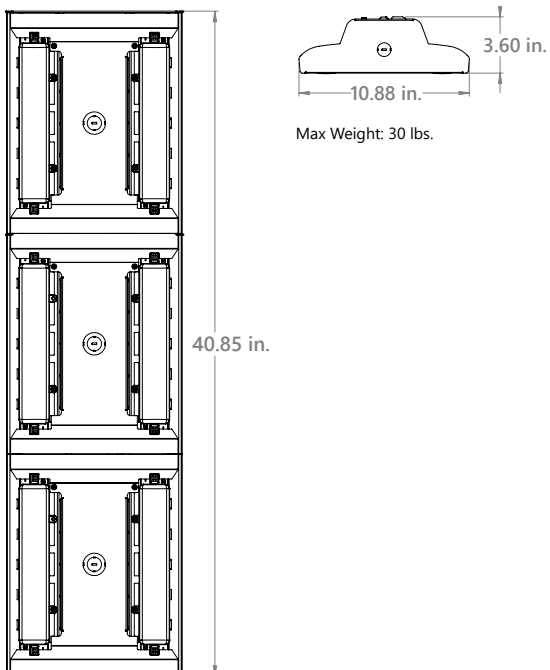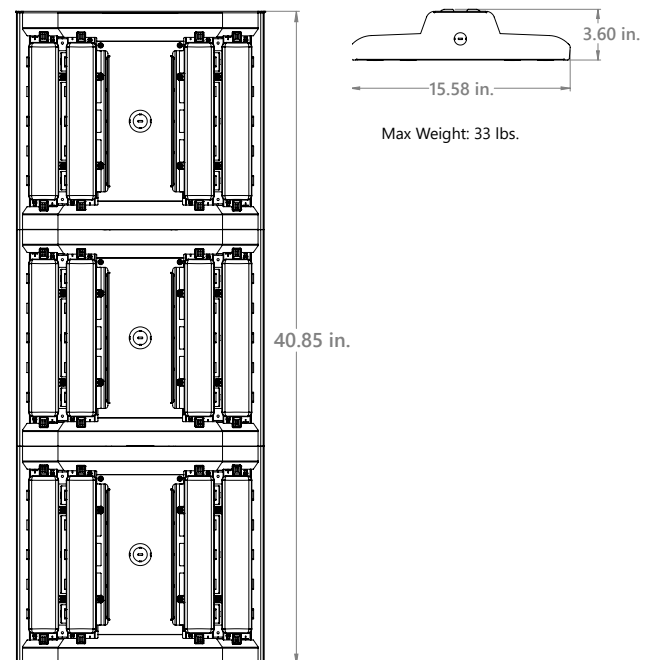
40.85 in.

3.60 in.

10.88 in.

Max Weight: 30 lbs.

3D - MODULE - 90T & 90H OUTPUT

40.85 in.

3.60 in.

15.58 in.

Max Weight: 33 lbs.

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PHOTOMETRIC DATA

1Q/1C
120° Lens
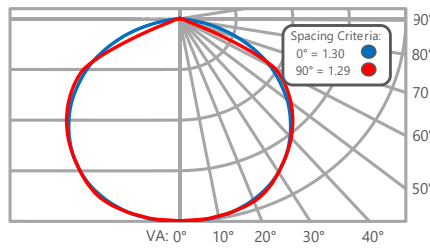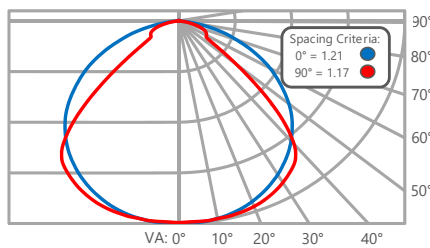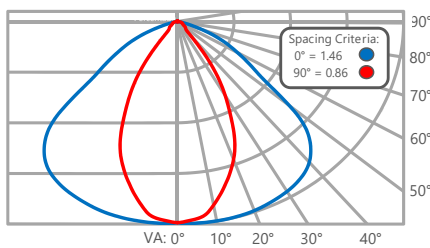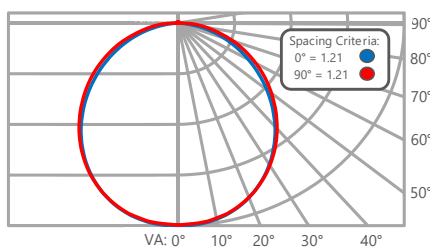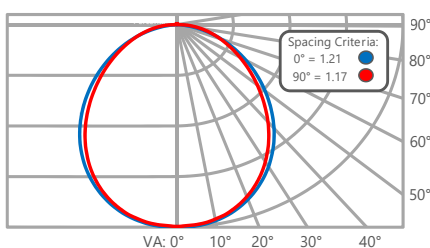
Spacing Criteria:
0° = 1.30 (blue)
90° = 1.29 (red)

3C
30° Lens

Spacing Criteria:
0° = 1.31 (blue)
90° = 0.60 (red)

9Q/9C
90° Lens

Spacing Criteria:
0° = 1.21 (blue)
90° = 1.17 (red)

3T
30° Textured Diffuse Lens

Spacing Criteria:
0° = 1.31 (blue)
90° = 0.60 (red)

5C
55° Lens

Spacing Criteria:
0° = 1.46 (blue)
90° = 0.86 (red)

WC
Wide Parking Garage Lens

Spacing Criteria:
0° = 1.2 (blue)
90° = 2.38 (red)

1D
120° Diffuse Lens

Spacing Criteria:
0° = 1.21 (blue)
90° = 1.21 (red)

9D
90° Diffuse Lens

Spacing Criteria:
0° = 1.21 (blue)
90° = 1.17 (red)

5T
55° Textured Diffuse Lens

Spacing Criteria:
0° = 1.46 (blue)
90° = 0.86 (red)
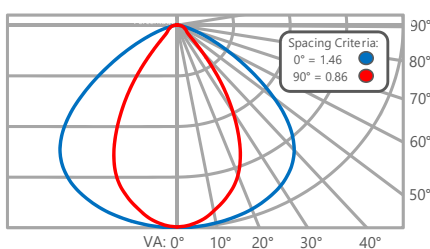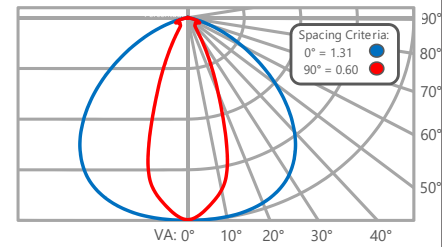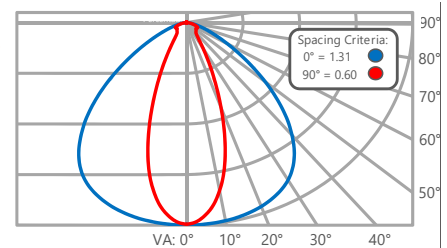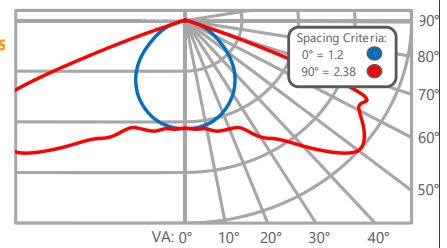
WIRELESS NETWORKING AND SENSING DEVICE OPTIONS*

- **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

WHR1 IR REMOTE

ABV3 WITH OPTIONAL DAINTREE WIRELESS WHS20 CONTROL MODULE