ACE LED
ULTRA VALUE LIGHTING
By Linmore LED

PROJECT NAME		DATE	
CAT. NUMBER			
NOTES			

SPEC SHEET

Ace LED Round High Bay (AR1)

HIGH BAY FIXTURE

5 YEAR PRODUCT WARRANTY

DLC LISTED PREMIUM

TRUSTED N3 NATIONAL LIGHTING BUREAU WARRANTY

Bluetooth Ready

c UL us LISTED

IP65

0–10V

Projected L70 up to 150,000 hours

KEY FEATURES

- 10,000 to 37,800 Lumens

- Up to 158 LPW

- Selectable Wattage:
  SM: 75W / 100W / 150W
  MD: 150W / 200W / 240W

- Aluminum Heat Sink

- Up to 50°C (122°F) Ambient

- Field-Adjustable Optics

- Plug & Play Controls

- Flicker-free

- Low Glare

Selectable Wattage

Each fixture has a switch with three output power options, allowing to select the desired lumen output and energy consumption for each application.

Selectable Color Temperature

Simply use the switch directly on the fixture to select the desired color temperature for your space: 3500K, 4000K, or 5000K.

Selectable Beam Angle

A switch allows instant beam angle adjustment at any time, providing three options, 60°, 80°, and 100°, for optimized light distribution and application flexibility.

FEATURES & SPECIFICATIONS

CONSTRUCTION

- **Housing:** Aluminum die-cast.

- **Housing Color:** White.

- **Heat Sink:** Cast aluminum.

- **Wire Guards:** Available as an accessory (field installed).

- **Receptacle for Lighting Controls:** 3-pin Screw-in system allows to add sensors and wireless controls, no tools or wiring needed.

Back View

ELECTRICAL

- **Power Input:** 120-277V (50/60Hz) standard, 277-480V (50/60Hz) available as a special order with extended lead time.

- **Power Factor:** Greater than 0.9.

- **Total Harmonic Distortion:** Less than 20%.

- **Surge Protection:** 6kV (standard).

- **Emergency Battery Backup:** EMB has 40 watts output, producing ~5,000 lumens for 90 minutes. Sold as an accessory (field installed).

Top View

OPERATION

- **Environment:** Wet location, for interior applications. IP65 rated.

- **Ambient Range Operation:** -40°C up to 50°C (-40°F up to 122°F).

OPTICS

- **CCT:** Selectable: 3500K, 4000K, 5000K.

- **CRI:** 80+ standard.

- **Lens:** PC lens. Selectable beam angle via switch: 60°, 80°, 100°.

- **Reflectors:** Aluminum and PC reflectors available as an accessory (field installed).

MOUNTING

- **Suspension Mount:** Standard, included hook.

- **Surface Mount:** Surface mount kit available as an accessory.

CONTROLS[1]

- **Dimming:** 0-10V standard. Dim to Off. Dimming range 100% to 5%.

- **Occupancy Sensors:** PIR sensor, On/Off/Dim. Plug & Play for field installation.

- **Networked Lighting Controls:** UltraLink Wireless Controls with Bluetooth® NLC Mesh technology. Plug & Play for field installation.

WARRANTY

- **5 Year Warranty:** The fixture is guaranteed for 5 years free of defects in materials and workmanship, including LEDs and driver. "Defective" is considered if ten percent (10%) or more of the LEDs, per product, are non-operating LEDs, or color temperature has shifted more than 500° Kelvin within the warranty period. See terms and conditions at https://linmoreled.com/warranty

LISTINGS & CERTIFICATIONS

- UL listed.

- RoHS compliant.

- IP65.

- DesignLights™ Consortium Premium. Pending.

TECHNICAL SPECS

SM Model: AR10S-A2-ADJ-SM-ADJ-80-ADJ-LV-FXT-S-10V

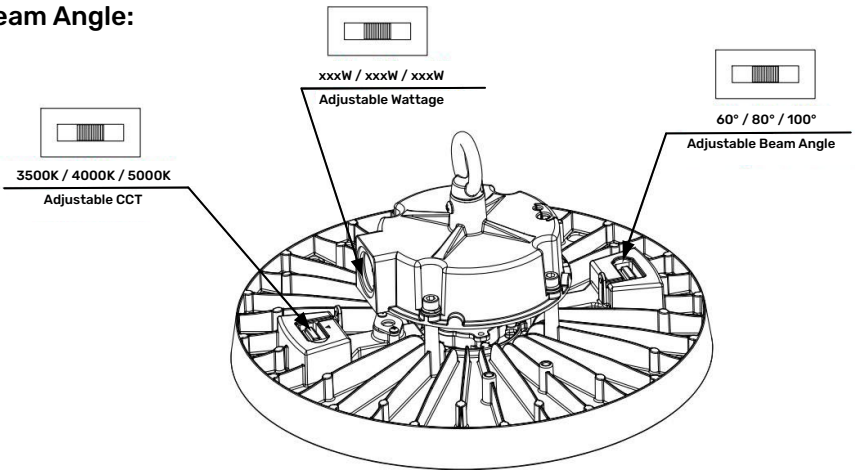**MD Model:** AR10S-A2-ADJ-MD-ADJ-80-ADJ-LV-FXT-S-10V

Size	Adj Watts	Adj CCT	Adj Beam Angle (60°)		Adj Beam Angle (80°)		Adj Beam Angle (100°)	
			Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy
SM	75	3500K	10,000	133	10,750	143	10,100	135
		4000K	10,500	140	11,350	151	10,650	142
		5000K	10,050	134	11,150	149	10,550	141
	100	3500K	13,350	133	14,350	143	13,475	135
		4000K	14,000	140	15,150	151	14,200	142
		5000K	13,400	134	14,875	149	14,075	141
	150	3500K	20,000	133	21,500	143	20,200	135
		4000K	21,000	140	22,700	151	21,300	142
		5000K	20,100	134	22,300	149	21,100	141
MD	150	3500K	20,375	136	22,325	149	20,300	135
		4000K	21,875	146	23,625	158	22,000	147
		5000K	21,050	140	23,125	154	21,250	142
	200	3500K	27,150	136	29,750	149	27,075	135
		4000K	29,150	146	31,500	158	29,350	147
		5000K	28,075	140	30,850	154	28,350	142
	240	3500K	32,600	136	35,700	149	32,500	135
		4000K	35,000	146	37,800	158	35,200	147
		5000K	33,700	140	37,000	154	34,000	142

Typical lumen output (±10%) at 277V (LV) under 25°C ambient temperature.

Selectable Wattage, Color Temperature and Beam Angle:

Fixtures ship from the factory with the highest wattage, 5000K CCT and 100° beam angle, to change these settings:

1. Make sure the fixture is off.

2. Adjust the dip switches located on the driver inside the fixture to select output power, color temperature and beam angle.

xxxW / xxxW / xxxW
Adjustable Wattage

60° / 80° / 100°
Adjustable Beam Angle

3500K / 4000K / 5000K
Adjustable CCT

ORDERING

SERIES MODEL - COMPLIANCE - WATTS - SIZE	COLOR TEMP	CRI	LENS	VOLTAGE
AR10S-A2-ADJ-SM **AR10S-A2-ADJ-MD**	**ADJ** Adjustable/Selectable: 3500K, 4000K, 5000K	**80** 80+ CRI	**ADJ** Adjustable/Selectable: 60°, 80°, 100°	**LV** 120-277V **HV** 277-480V

MOUNTING	CONTROLS[1]	DIMMING
FXT Full fixture, pendant mounting. Mounting kits sold separately, see Accessories	**S** Sensor Socket. Sensors not included, see Controls pages for available products	**10V** 0-10V

Ordering Example: AR10S-A2-ADJ-SM-ADJ-80-ADJ-LV-FXT-S-10V

ACCESSORIES

FIXTURE ACCESSORIES

Part Number	Type	Description
SAFETYCABLE	Safety Kit	Kit includes (1) 10 ft. aircraft cable with single snap hook, L-bracket, screw and nut.
AR1-SFMK	Surface Mount Kit	Surface Mount Kit. Field Installed.
AR1-REF-AL-SM	Reflector	Aluminum Reflector for Small Model. Field installed.
AR1-REF-AL-MD	Reflector	Aluminum Reflector for Medium Model. Field installed.
AR1-REF-PC-SM	Reflector	Polycarbonate Reflector for Small Model. Field installed.
AR1-REF-PC-MD	Reflector	Polycarbonate Reflector for Medium Model. Field installed.
AR1-WG-SM	Wire Guard	Wire Guard for Small Model. Field installed.
AR1-WG-MD	Wire Guard	Wire Guard for Medium Model. Field installed.
AR1-EMB-40W-LV	Emergency Battery Backup	Emergency Backup Driver with Battery, 40W, 90 minutes. For LV only. Field installed.
AR1-EMB-40W-HV	Emergency Battery Backup	Emergency Backup Driver with Battery, 40W, 90 minutes. For HV only. Field installed.

Bracket for Surface Mounting   **Aluminum Reflector**   **Polycarbonate Reflector**   **Wire Guard**

BASIC CONTROLS[1]

Controls are field installed, must be ordered as a new line item and will ship in a separate box.

BASIC SENSORS[4]

	Part Number	Description
	AR1-PIR-WH-EZ10	PIR Occupancy and Daylight Sensor, White Color, EZ-Connect Twist Lock System with 3-Pin Adapter for AR1 Fixtures, Plug & Play, On/Off/Dim, 40' Max Mounting Height, IP65. Field installed. Sensor can be re-programmed with remote SEN-PROG (sold separately).
	AR1-MW-WH-EZ10	Microwave Occupancy and Daylight Sensor, White Color, EZ-Connect Twist Lock System with 3-Pin Adapter for AR1 Fixtures, Plug & Play, On/Off/Dim, 40' Max Mounting Height, IP65. Field installed. Sensor can be re-programmed with remote SEN-PROG (sold separately).
	SEN-PROG	Infrared Remote Programmer for Occupancy Sensors. Required to change default settings, modes of operation, and detection sensitivity.

DEFAULT SETTINGS

Sensitivity=100%, Hold time=5min, Daylight sensor=disabled, Stand-by dim level=30%, Stand-by time=60min.
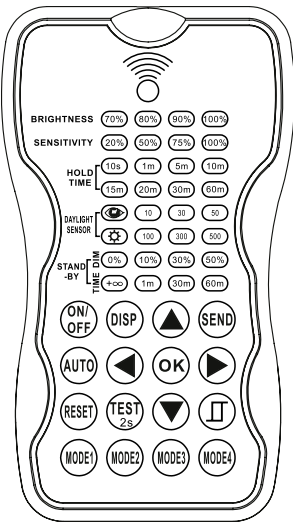
INFRARED REMOTE PROGRAMMER

Required to change default settings, modes of operation, and sensitivity.

Brightness	Light output during occupancy (70%, 80%, 90%, 100%).			**Daylight harvesting function.** Selects the current surrounding lux value as the daylight threshold.
Sensitivity	Detection area of the sensor (20%, 50%, 75%, 100%).			**Daylight sensor disabled.** All motion detected turns on the light, no matter how bright the natural light is.
Hold Time	Time the sensor waits to turn off or dim the light after the area is vacated.		**Stand-by Dim**	Light output during vacancy (0%, 10%, 30%, 50%).
Daylight Sensor	Daylight sensor status and daylight threshold values in lux.		**Stand-by Time**	Time the sensor keeps the light at stand-by dim level after the hold time has elapsed.

Scene Modes

The remote comes with four preprogrammed modes. These can be used as is, or adjusted with different parameters and saved over an existing mode.

Scene	Application	Brightness	Sensitivity	Hold Time	Stand-by Dim	Stand-by Time	Daylight Sensor
MODE 1	Indoor	100%	75%	5min	30%	30min	Disabled
MODE 2	Indoor	100%	75%	1min	30%	+∞	Disabled
MODE 3	Indoor	100%	75%	5min	30%	30min	30lux
MODE 4	Outdoor	100%	75%	1min	30%	+∞	30lux/300lux

ULTRALINK BLUETOOTH CONTROLS

Controls are field installed, must be ordered as a new line item and will ship in a separate box.

ULTRALINK CONTROLLERS / SENSORS[1]

|	Part Number	Description
	AR1-ULTRA-WH-EZ10	UltraLink Bluetooth NLC Wireless Receiver and Fixture Controller, White Color, EZ-Connect Twist Lock System with 3-Pin Adapter for AR1 Fixtures, IP65, Silvair Firmware. Field installed.
	AR1-ULTRAHGA-CL-EZ10	UltraLink Bluetooth NLC Wireless Receiver and Fixture Controller with Long Range Antenna, Clear Color, EZ-Connect Twist Lock System with 3-Pin Adapter for AR1 Fixtures, IP65, Silvair Firmware. Field installed.
	AR1-ULTRAPIR-WH-EZ10	UltraLink Bluetooth NLC Wireless Fixture Controller with PIR Occupancy and Daylight Sensor, White Color, EZ-Connect Twist Lock System with 3-Pin Adapter for AR1 Fixtures, 40' Max Mounting Height, IP65, Silvair Firmware. Field installed. Detection sensitivity can be changed with remote SEN-PROG (sold separately).
	AR1-ULTRAMW-WH-EZ10	UltraLink Bluetooth NLC Wireless Fixture Controller with Microwave Occupancy and Daylight Sensor, White Color, EZ-Connect Twist Lock System with 3-Pin Adapter for AR1 Fixtures, 40' Max Mounting Height, IP65, Silvair Firmware. Field installed. Detection sensitivity can be changed with remote SEN-PROG (sold separately).
	SEN-PROG	Infrared Remote Programmer for Occupancy Sensors. Only required for UltraLink sensors to change detection sensitivity.

ULTRALINK ACCESSORIES

	Part Number	Description
	ULTRAGATEWAY	UltraLink Bluetooth NLC Wireless Gateway, required for Advanced Features and Time-Based Events. One gateway can control up to 200 fixtures, allowing for energy monitoring, people tracking, and scheduling. Interior installation only.
	ULTRAGATEWAY-4G	UltraLink Bluetooth NLC Wireless Gateway, RJ45 Ethernet Connector and SIM Card Slot for 4G Cellular Connectivity, PoE or 120V AC Power Adapter, Long Range Bluetooth Mesh, Hardware Security Module, Encrypted File System, Secure Boot, Interior installation only.
	ULTRAGATEWAY-EXT	UltraLink Bluetooth NLC Wireless Exterior Rated Gateway Box with Long Range Antenna, includes ULTRAGATEWAY. 120-277V Power Supply required.
	ULTRAGATEWAY-EXT-4G	UltraLink Bluetooth NLC Wireless Exterior Rated Gateway Box with Long Range Antenna and 4G Cellular Connectivity. Includes ULTRAGATEWAY-4G in a Vented, Temperature-Controlled NEMA Enclosure, Universal Voltage (120, 208, 240, 277, and 480V), Wall Mount, 24 Hour Battery Backup. Optional pole mount kit. Cellular data plans available.
	ULTRATIME-BAT	UltraLink Bluetooth NLC Time-Keeping Battery Backup includes an Outdoor Rated Enclosure, a Long Range Antenna and a Backup Battery. For use to keep time during a power outage and for in-node scheduling.
	ULTRADASH	UltraLink Dashboards for Energy, Occupancy Heat Mapping, and Energy Heat Mapping. Gateway (ULTRAGATEWAY) required, sold separately.

Bluetooth® NLC

Technology Partner **SILVAIR**

DIMENSIONS & DRAWINGS
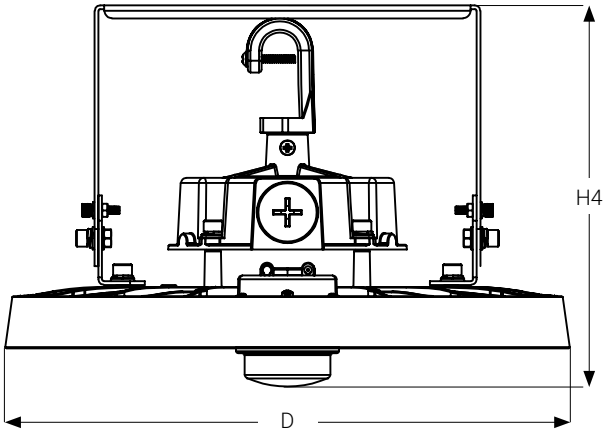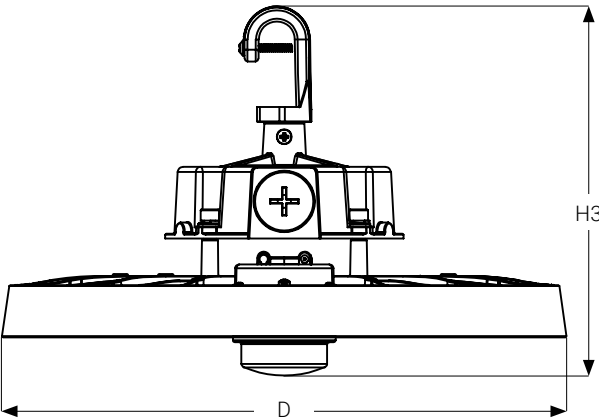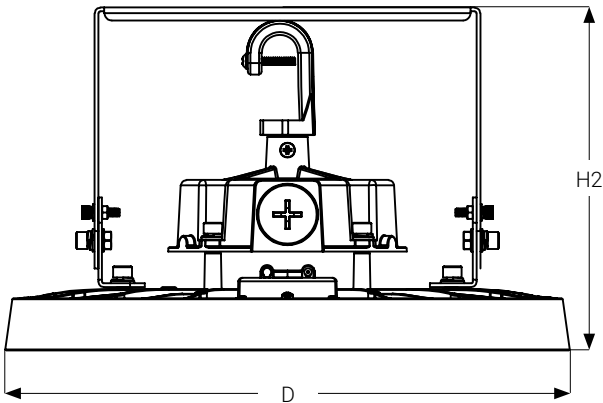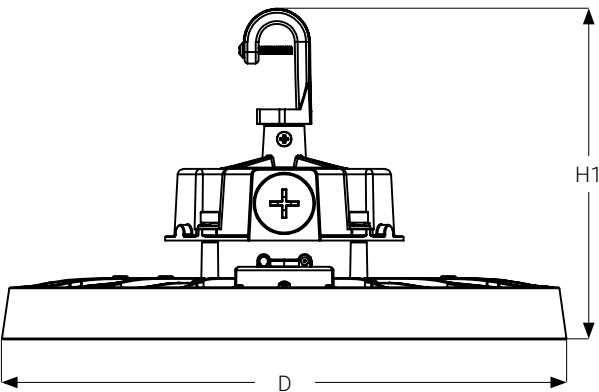
Size	D	H1	H2	H3	H4	Weight
SM	11.81"	7.01"	7.24"	8.80"	8.07"	~5.5lbs
MD	14.17"	6.93"	8.07"	7.76"	8.90"	~7.3lbs

Dimension tolerances: ± 0.2". Weight without bracket and sensor. Weights are approximate, if weight is a concern, please contact factory.

FOOTNOTES

1.   The performance of sensors and lenses is influenced by various factors beyond Linmore LED's control, including but not limited to environmental conditions, user settings, and proper maintenance. While we provide detailed specifications and guidelines to help optimize performance, we cannot guarantee or be held liable for the performance of sensors or lenses under any particular circumstance(s). Customers are advised to test the products in their specific application environments to ensure suitability for their intended use and are responsible for all sensor and lens selections.

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