Albeo™ LED Luminaire

LED Linear Industrial Lighting
ALR2 - Series

Product Description:

The Albeo™ ALR2 series LED luminaire is an efficient alternative to traditional fluorescent in a variety of commercial and industrial lighting applications. The ALR2 expands the linear product offering to include IP65, IP66 and IP67 rated fixtures for demanding industrial environments. The new ALR2 features 316 L grade stainless steel latches. ALR2 LED fixture can be matched with motion, daylight and wireless controls for increased energy savings. Designed to meet recommended luminance and illuminance requirements for low bay and task level lighting as well as parking garage, stairwell & general lighting applications.

Performance Highlights:

Light Output Range: 2,000 – 20,000 lumens
CRI: 80 and 90 CRI options
CCT: 3000K, 3500K, 4000K, 5000K
Distributions: 120° diffused lens & 160° clear lens
Input Voltage: 120V-277V, 347V & 480V
Efficiency: Up to 160LPW
Fixture Rated: L70 @ 100,000 hours minimum @ 45°C
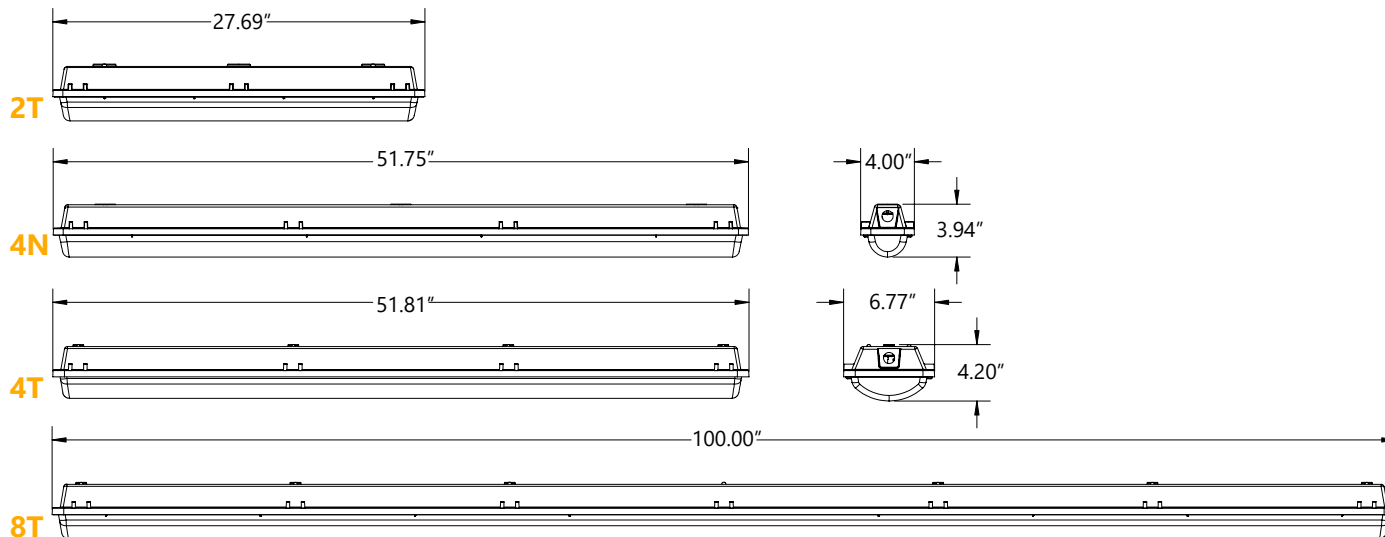**Limited Warranty:** 5 Years
Temperature Rating: –30°C to +45°C (-22°F to 113° F)
Controls & Sensors: 0-10V standard, motion & daylight sensor options. ZigBee Wireless Daintree compliant options.
Ratings: IP65, IP66, IP67, NEMA 4X - UL 1598 Suitable for Wet Locations NSF Splash Zone & Non-Food Zone rated optional

Product Dimensions:

2T — 27.69"

4N — 51.75" | 4.00" | 3.94"

4T — 51.81" | 6.77" | 4.20"

8T — 100.00"

Certifications: Daintree WIRELESS CONTROLS | c(UL)us LISTED | NSF | IP65 CERTIFIED | IP66 CERTIFIED | IP67 CERTIFIED

GE current
a Daintree company

Ordering Number Logic
LED Linear Industrial Lighting
ALR2 - Series

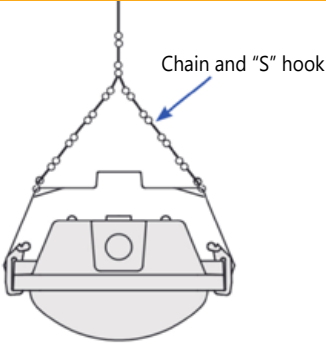Project_____
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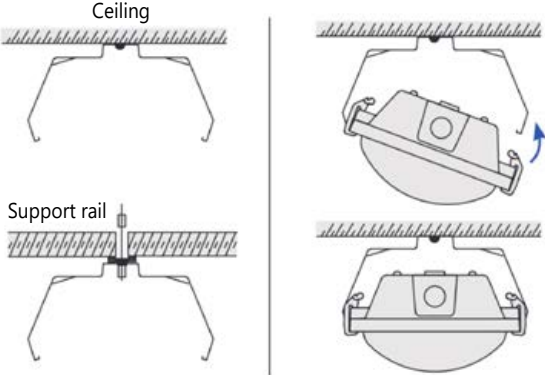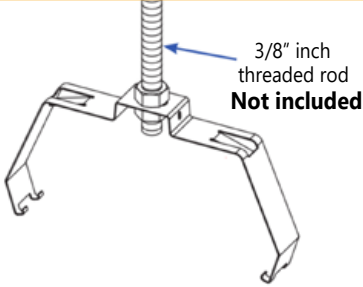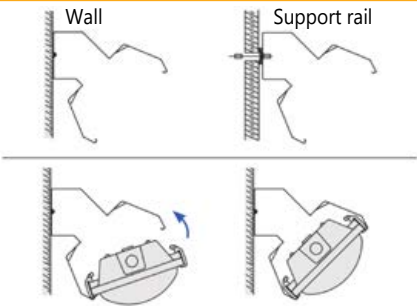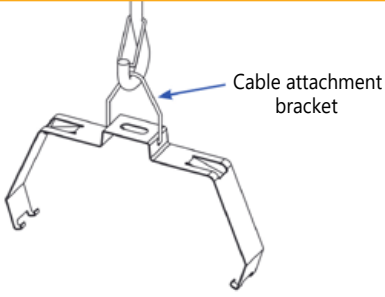**AL R 2** _ _ _ _ _ _ _ **T** _ _ _ _ _ _ _ _ _ **Q** **W** _ _ _ _

FIXTURE LENGTH & BODY	LUMEN OUTPUT	PERFORMANCE LEVEL	LED COLOR TEMP	OPTICS	FIXTURE TYPE	SENSOR/ WIRELESS	CONTROL WIRING	EMERGENCY	MOUNTING	CORD	PLUG	FINISH	OPTIONS

ALR2 = ALR IP67 Linear Series 2nd Gen

0 = 120/277
1 = 120*
4 = 277*
5 = 480*
D = 347*

*Specify single voltage if plug, sensor, or wireless needed.

FIXTURE LENGTH & BODY
2T = 2 ft. Standard Body
4N = 4 ft Narrow Body
4T = 4 ft. Standard Body
8T = 8 ft. Standard Body

LUMEN OUTPUT
2T: **02** = 2,000 **03** = 3,000 **04** = 4,000
4N: **03** = 3,000 **04** = 4,000 **05** = 5,000 **06** = 6,000 **08** = 8,000 **10** = 10,000
4T: **03** = 3,000 **04** = 4,000 **05** = 5,000 **06** = 6,000 **08** = 8,000 **10** = 10,000
8T: **04** = 4,000 **06** = 6,000 **08** = 8,000 **10** = 10,000 **12** = 12,000 **16** = 16,000 **20** = 20,000

PERFORMANCE LEVEL
T = Standard Efficiency

LED COLOR TEMP
80 Plus CRI
38 = 3000K
C8 = 3500K
48 = 4000K
58 = 5000K
90 Plus CRI
39 = 3000K
C9 = 3500K
49 = 4000K
59 = 5000K

OPTICS
1D = 120° Diffused Lens
WC = Wide Clear 160° Parking Garage Optic

FIXTURE TYPE
S = Standalone
F = NSF Food Rated

SENSOR/WIRELESS
Q = None
A = Occ Sense On/Off 360° SBOR
B = Occ Sense High-Low Dimming 360° SBOR
P = Daylight Sense w/ Occupancy On/Off SBOR
S = Daylight Sense w/ Occupancy High-Low Dimming SBOR
W = Bi-level dimming/ Stairwell setting sensor
Full Featured
1 = 20' Motion Sensor FSP221 w/daylight & High-low Dimming (requires remote to modify default settings sold separately)
2 = 40' Motion Sensor FSP221 w/daylight & High-low Dimming (requires remote to modify default settings sold separately)
ZigBee Wireless Daintree™
4 = ZigBee Wireless Daintree™ Enabled w/Motion Sensor
T = ZigBee Wireless Daintree™ Enabled (no sensor)
*Sensors are not available in 480V and NSF food rated fixtures. For special requests, contact manufacturer.

CONTROL WIRING
Q = None/ No External Control Wiring
V = 0-10V Control Wires
Note: V option not available with dimming and ZigBee sensors

EMERGENCY
Q = None
E = Battery Backup
Note: Battery Backup not available with 2T, 4N, and 347/480V options

MOUNTING
ST = Standard
21 = 3/8" Threaded Rod Bracket
45 = 45 Degree Wall Mount
51 = Cable/ Toggle 5 ft
52 = Cable/ Toggle 10 ft
53 = Cable/ Toggle 15 ft

CORD
K = Knockout
A = 6 ft. 18ga cord
B = 12 ft. 18ga cord

PLUG
Q = None

FINISH
W = White

OPTIONS
Blank = No Special Options
1PK = Single Pack (for distributor stocking. Default is Job Pack not 1 PK).

FIXTURE LENGTH	OUTPUT LEVEL	80 CRI @ 5000K CCT				
		TYPICAL DELIVERED LUMENS	TYPICAL POWER		TYPICAL LPW 120-277	MAX AMBIENT TEMP
			120-277	347/480V		
2 ft.	2,000	1,900	14	16	136	45°C
	3,000	2,900	21	23	138	
	4,000	3,700	28	30	132	
4 ft.	3,000	3,100	20	22	155	45°C
	4,000	4,100	27	29	152	
	5,000	5,100	34	36	150	
	6,000	6,100	42	44	145	
	8,000	8,100	59	65	137	
	10,000	10,000	79	88	127	40°C
8 ft.	4,000	4,100	25	28	164	45°C
	6,000	6,100	38	40	161	
	8,000	8,100	52	57	154	
	10,000	10,100	67	73	151	
	12,000	12,100	82	91	148	
	16,000	16,100	118	129	136	
	20,000	20,000	158	174	127	40°C

CRI	CCT	OUTPUT
80 CRI	5000K	100%
	4000K	98%
	3500K	97%
	3000K	93%
90 CRI	5000K	89%
	4000K	85%
	3500K	83%
	3000K	81%

OPTIC CODE	OPTIC DESCRIPTION	OUTPUT
1D	120° Diffused Lens	100%
WC	Wide Clear 160° Parking Garage Optic	94%

Mounting & Accessories

MOUNTING OPTIONS	IMAGE	ORDER LOGIC CODE	AFTER MARKET ORDER LOGIC
Standard Chain/ Cable Mount Available on all fixture configurations (chain not included).	Chain and "S" hook	**ST = Standard**	**STANDARD SKU: 93118276 NARROW SKU: 93118277 Description: Standard Cable, Chain & Surface Mounting Kit (Includes brackets only)**
Surface Mount (optional) Available with all fixture configurations. Standard mounting option is surface mount ready.	Ceiling — Support rail	**ST = Standard**	
Rod Mount Kit (optional) Available with all fixture configurations. Attaches to 3/8" threaded rod. Pendant mount included. (rod and nuts not included)	3/8" inch threaded rod **Not included**	**21 = 3/8" Threaded Rod Bracket**	**STANDARD SKU: 93118092 NARROW SKU: 93118146 Description: SRod Mounting Kit (Includes brackets only)**
45° Degree Wall Mount (optional) Available on 2T, 4T & 8T configurations. (hardware not included)	Wall — Support rail	**45 = 45° Degree Wall Mount**	**STANDARD SKU93118091 Description: 45 Degree Mounting Kit (Includes brackets only)**
Cable Mount Kit (optional) Available with all fixture configurations. Cables and attachments included with kit.	Cable attachment bracket	**51 = Cable/Toggle 5 ft. 52 = Cable/Toggle 10 ft. 53 = Cable/ Toggle 15 ft.**	**STANDARD SKUS: 51 Cable/Toggle93118093 52 Cable/Toggle93118094 53 Cable/Toggle93118095 NARROW SKUS: 51 Cable/Toggle93118147 52 Cable/Toggle93118148 53 Cable/Toggle93118149 Description: Cable Mounting Kit (Includes brackets, cables and attachment piece)**

See "Installation Instructions" for mounting details.

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LED & Optical Assembly

CRI: 80 and 90 CRI options
Fixture Rated Life: L70 @ 100,000 hrs
Distribution/Lenses:
Precision lens system provides optimized illumination for open floor plan.
120° w/diffused lens standard
160° w/clear lens suitable for parking garages optional

Electrical

Input Voltage: 120-277V, 347V or 480V
Input Frequency: 50/60Hz
Output Frequency/Flicker Rate: NEMA 77
System Power Factor (PF): >0.9*
Total Harmonic Distortion (THD): <20%*
LED Driver Type: Class 2, 3kV surge protection
EMI: FCC CFR Title 47 Part 15, Class A
* PF and THD may vary with options

Ratings & Evaluations

Operating Temperature: –30°C to +45°C (-22°F to 122° F). **Storage Temperature:** -40°C to +70°C
Surge Protection: 3kV driver surge protection
Location: Suitable for Wet Locations
Safety: UL/cUL Listed ⓊL ᴄⓊL
Ratings: IP65, IP66, IP67, NEMA 4X - UL 1598
Suitable for Wet Locations.
NSF Splash Zone & Non-Food rated fixture optional
IK Rating: IK06
Environmental: RoHS compliant

Construction & Finish

Housing: Fiberglass & steel
Lensing: Acrylic diffused
No glass in housing or lenses
Weight: 2 ft. - 8lbs max; 4 ft. - 11lbs max; 8 ft. - 19lbs max;

Controls

Standard Dimming: 0-10VDC
Minimum Dimming: Dim down to 10%
Wireless Networking & Sensing:
ZigBee Wireless Daintree with Occ Sensor – Sensor 4
ZigBee Wireless Daintree with No Sensor – Sensor T
Wattstopper FSP Series Motion + daylight + IR config (IR remote sold separately) – Sensor 2
Sensor Switch SBOR Series - Sensor A, B, P or S
Wattstopper FSP remote = SKU# 93076263
Stairwell Applications: Sensor W = Bi-level dimming dims to 25% with low traffic and then to off for maximum energy savings. Compatible with EMBB.

Mounting

Typical Mounting: Standard Chain/Cable or Surface mount ready.
Optional Mounting:
Rod Mounting: 3/8" inch threaded rod mounting bracket available.
45° Degree Wall Mount: Available in 2T, 4T & 8T configurations.
Cable Mount Kit: Cables and attachment included in kit. **Cord & Plugs:**
Standard = knockout access (no cord, no plug)
6ft. 18-3 - Cord A
12ft. 18-3 - Cord B

Accessories, Options & Packaging

Emergency Battery: Integral EM battery option provides 90-minutes of emergency lighting. Design lumen output: 2000lm at 5000K 80CRI.

Packaging: Standard packaging is job pack / bulk pack consisting of 1 to 4 fixtures per package reducing unpack time at the jobsite.
Single Pack (i.e. for stocking) – Option 1PK

Design Life & Warranty

- **Reliability Testing:** Components and/or systems evaluated at extreme conditions and monitored during production.
- **System Warranty:** 5 Year