

# Albeo™ LED Luminaire

LED Linear Industrial Lighting  
ALR2 - Series



Project \_\_\_\_\_  
Date \_\_\_\_\_  
Type \_\_\_\_\_

## Product Description:

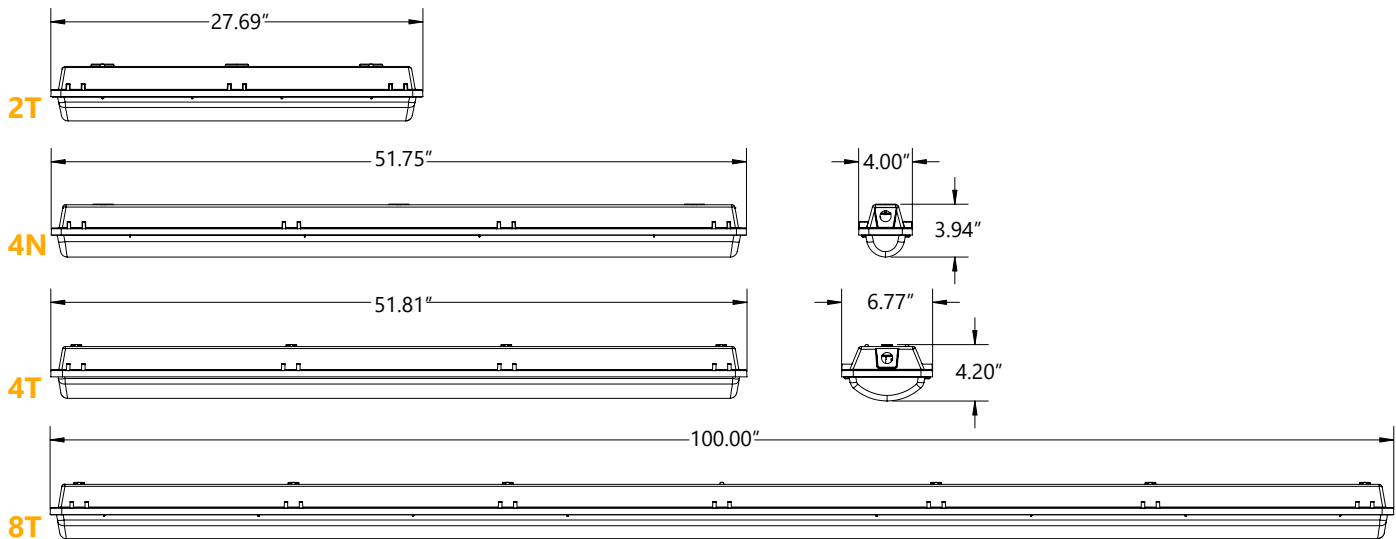
The Albeo™ ALR2 series LED luminaire is an efficient alternative to traditional fluorescent in a variety of commercial and industrial lighting applications. The ALR2 expands the linear product offering to include IP65, IP66 and IP67 rated fixtures for demanding industrial environments. The new ALR2 features 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:



Certifications:

# Ordering Number Logic

## LED Linear Industrial Lighting

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Project \_\_\_\_\_  
 Date \_\_\_\_\_  
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**AL R 2**

**T**

**Q**

**W**

ALR2 =	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	<b>0</b> = 120/277 <b>1</b> = 120* <b>4</b> = 277* <b>5</b> = 480* <b>D</b> = 347* *Specify single voltage if plug, sensor, or wireless needed.	<b>2T</b> = 2 ft Standard Body <b>4N</b> = 4 ft Narrow Body <b>4T</b> = 4 ft Standard Body <b>8T</b> = 8 ft Standard Body	<b>02</b> = 2,000 <b>03</b> = 3,000 <b>04</b> = 4,000 <b>03</b> = 3,000 <b>04</b> = 4,000 <b>05</b> = 5,000 <b>06</b> = 6,000 <b>08</b> = 8,000 <b>10</b> = 10,000 <b>03</b> = 3,000 <b>04</b> = 4,000 <b>05</b> = 5,000 <b>06</b> = 6,000 <b>08</b> = 8,000 <b>10</b> = 10,000 <b>04</b> = 4,000 <b>06</b> = 6,000 <b>08</b> = 8,000 <b>10</b> = 10,000 <b>12</b> = 12,000 <b>16</b> = 16,000 <b>20</b> = 20,000	<b>T</b> = Standard Efficiency	<b>80 Plus CRI</b> <b>38</b> = 3000K <b>C8</b> = 3500K <b>48</b> = 4000K <b>58</b> = 5000K <b>90 Plus CRI</b> <b>39</b> = 3000K <b>C9</b> = 3500K <b>49</b> = 4000K <b>59</b> = 5000K	<b>1D</b> = 120° Diffused Lens <b>WC</b> = Wide Clear 160° Parking Garage Optic	<b>S</b> = Standalone <b>F</b> = NSF Food Rated	<b>Q</b> = None <b>A</b> = Occ Sense On/Off 360° SBOR <b>B</b> = Occ Sense High-Low Dimming 360° SBOR <b>P</b> = Daylight Sense w/ Occupancy On/Off SBOR <b>S</b> = Daylight Sense w/ Occupancy High-Low Dimming SBOR <b>W</b> = Bi-level dimming/ Stairwell setting sensor <b>Full Featured</b> <b>1</b> = 20' Motion Sensor FSP221 w/daylight & High-low Dimming (requires remote to modify default settings sold separately) <b>2</b> = 40' Motion Sensor FSP221 w/daylight & High-low Dimming (requires remote to modify default settings sold separately) <b>ZigBee Wireless Daintree™</b> <b>4</b> = ZigBee Wireless Daintree™ Enabled w/Motion Sensor <b>T</b> = ZigBee Wireless Daintree™ Enabled (no sensor)	<b>Q</b> = None/No External Control Wiring <b>V</b> = 0-10V Control Wires <b>Note:</b> V option not available with dimming and ZigBee sensors	<b>Q</b> = None <b>E</b> = Battery Backup <b>Note:</b> Battery Backup not available with 2T, 4N, and 347/480V options	<b>ST</b> = Standard <b>21</b> = 3/8" Threaded Rod Bracket <b>45</b> = 45 Degree Wall Mount <b>51</b> = Cable/ Toggle 5 ft <b>52</b> = Cable/ Toggle 10 ft <b>53</b> = Cable/ Toggle 15 ft	<b>K</b> = Knockout <b>A</b> = 6 ft. <b>B</b> = 12 ft. <b>18ga cord</b> <b>18ga cord</b>	<b>Q</b> = None <b>W</b> = White	<b>Blank</b> = No Special Options <b>1PK</b> = Single Pack (for distributor stocking. Default is Job Pack not 1 PK).



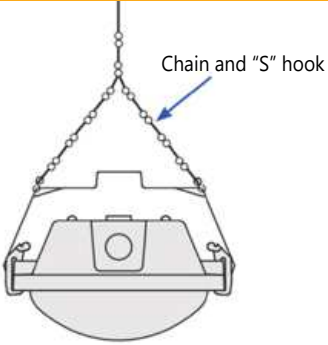
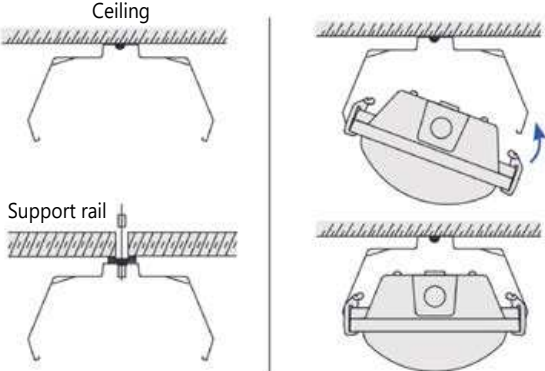
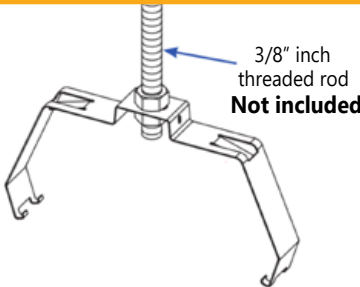
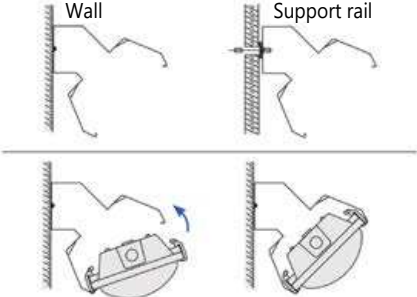
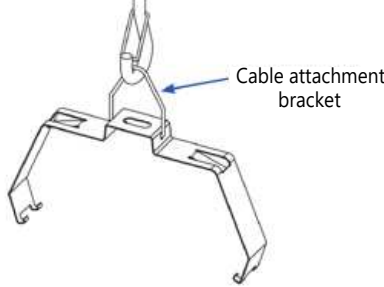
FIXTURE LENGTH	OUTPUT LEVEL	80 CRI @ 5000K CCT				
		TYPICAL DELIVERED LUMENS	TYPICAL POWER		TYPICAL LPW 120-277	MAX AMBIENT TEMP
			120-277	347/480V		
2 ft.	2,000	1,900	14	16	136	45°C
	3,000	2,900	21	23	138	
	4,000	3,700	28	30	132	
4 ft.	3,000	3,100	20	22	155	45°C
	4,000	4,100	27	29	152	
	5,000	5,100	34	36	150	
	6,000	6,100	42	44	145	
	8,000	8,100	59	65	137	
8 ft.	10,000	10,000	79	88	127	40°C
	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
<b>1D</b>	120° Diffused Lens	100%
<b>WC</b>	Wide Clear 160° Parking Garage Optic	94%

\*Sensors are not available in 480V and NSF food rated fixtures. For special requests, contact manufacturer.

# Mounting & Accessories

MOUNTING OPTIONS	IMAGE	ORDER LOGIC CODE	AFTER MARKET ORDER LOGIC
<p><b>Standard Chain/ Cable Mount</b> Available on all fixture configurations (chain not included).</p>	 <p>Chain and "S" hook</p>	<p><b>ST = Standard</b></p>	<p><b>STANDARD SKU:</b> 93118276 NARROW SKU: 93118277 <b>Description:</b> Standard Cable, Chain &amp; Surface Mounting Kit (Includes brackets only)</p>
<p><b>Surface Mount (optional)</b> Available with all fixture configurations. Standard mounting option is surface mount ready.</p>	 <p>Ceiling</p> <p>Support rail</p>	<p><b>ST = Standard</b></p>	<p><b>STANDARD SKU:</b> 93118276 NARROW SKU: 93118277 <b>Description:</b> Standard Cable, Chain &amp; Surface Mounting Kit (Includes brackets only)</p>
<p><b>Rod Mount Kit (optional)</b> Available with all fixture configurations. Attaches to 3/8" threaded rod. Pendant mount included. (rod and nuts not included)</p>	 <p>3/8" inch threaded rod <b>Not included</b></p>	<p><b>21 = 3/8" Threaded Rod Bracket</b></p>	<p><b>STANDARD SKU:</b> 93118092 NARROW SKU: 93118146 <b>Description:</b> SRod Mounting Kit (Includes brackets only)</p>
<p><b>45° Degree Wall Mount (optional)</b> Available on 2T, 4T &amp; 8T configurations. (hardware not included)</p>	 <p>Wall</p> <p>Support rail</p>	<p><b>45 = 45° Degree Wall Mount</b></p>	<p><b>STANDARD SKU:</b> 93118091 <b>Description:</b> 45 Degree Mounting Kit (Includes brackets only)</p>
<p><b>Cable Mount Kit (optional)</b> Available with all fixture configurations. Cables and attachments included with kit.</p>	 <p>Cable attachment bracket</p>	<p><b>51 = Cable/Toggle 5 ft. 52 = Cable/Toggle 10 ft. 53 = Cable/Toggle 15 ft.</b></p>	<p><b>STANDARD SKUS:</b> 51 Cable/Toggle 93118093 52 Cable/Toggle 93118094 53 Cable/Toggle 93118095 <b>NARROW SKUS:</b> 51 Cable/Toggle 93118147 52 Cable/Toggle 93118148 53 Cable/Toggle 93118149 <b>Description:</b> Cable Mounting Kit (Includes brackets, cables and attachment piece)</p>

See "Installation Instructions" for mounting details.

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Type \_\_\_\_\_

## 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 (UL) (UL)

**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

**GE current**  
a Daintree company

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