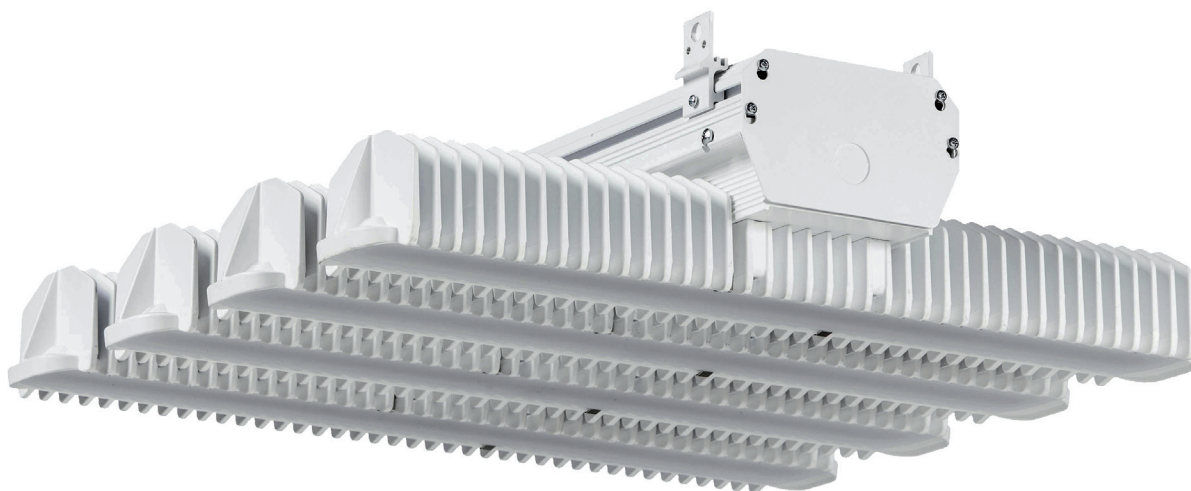


GE  
Lighting

# Albeo™ LED Luminaire

Modular High & Low Bay Lighting  
(ABHG - Series UL & cUL Certified)



imagination at work

## Product Features

Albeo continues to build on the groundbreaking award winning ABH-Series LED luminaire with its latest version, the ABHG-Series. Utilizing the same innovative heat sinking and cutting edge LED technology but with improved electronics, the HG series offers higher efficacy for new construction and retrofit applications. Combine all these great features with controls technologies to deliver a high tech solution to High and Low bay applications.

### Applications

- Designed to meet recommended luminance and illuminance requirements for High bay and Low bay applications



### Housing

- Die cast aluminum housing.
- HG-Series' innovative design accommodates up to 4 LED modules

### LED & Optical Assembly

- HG-series lens system enable LEDs to provide optimized illumination for open floor and racked aisles.
- Field upgradable lens and multiple photometric distributions of 20, 30, 40, 80 and 120 degrees.
- Utilizes high brightness LEDs, 70 & 80 CRI at 4000K & 5000K typical.
- LM-79, LM 80 tests and reports are performed in accordance to IESNA standards.

### Ratings

-  DLC. Listed.
- /UL Listed.
- UL 1598 Suitable for Damp Locations.
- UL 8750 LED equipment in Lighting Products.
- RoHs.
- Temperature Rated:
  - 120/277V (-35°C to +55°C) (-31°F to +131°F)
  - 347/480V (-35°C to +45°C) (-31°F to +113°F)
- Projected L70 (15K) > 100,000 Life Hours per IES TM-21.
- 40°C to 60°C (non-energized) and documented materials list with mfg's allowed storage temperatures

### Mounting

- Chain or Cable mounting ready. 1/2" threaded rod kit, indirect mount, and 3/4" pendant mount kit optional.
- Cord and plug options offered.

### Finish

- Painted white finish.

### Controls

- Motion and Daylight sensor can be combined with the HG series for additional energy savings
- Wireless controls and emergency battery backup options available.

### Electrical

- 120-277 volt, 347 and 480 volt available.
- System power factor is >90%\* and THD <20%.\*
- EMI: Title 47 CFR 15 Class A.

*\* System power factor and THD is tested and specified at 120V input and maximum load conditions.*

### Warranty

- 5-year limited system warranty standard.

# Ordering Number Logic

## Scalable High Bay (ABHG-UL & cUL)



**ABHG**

**V**

**W**

PRODUCT ID	VOLTAGE	MODULE	DRIVE CURRENT	LED COLOR TEMP	OPTICS BEAM	MOTION/DAYLIGHT SENSOR	CONTROL WIRING	MOUNTING	CORD	PLUG	FINISH	OPTIONS
<b>A</b> = Albeo	<b>0</b> = 120/277 <b>1</b> = 120*	<b>1</b> = 1 module <b>2</b> = 2 modules <b>3</b> = 3 modules <b>4</b> = 4 modules	<b>T</b> = Standard <b>H</b> = High Output <b>V</b> = Very High	<b>70 Plus CRI</b> <b>47</b> = 4000K <b>57</b> = 5000K  <b>80 Plus CRI</b> <b>48</b> = 4000K <b>58</b> = 5000K	<b>1</b> = 120° <b>2</b> = 20° <b>3</b> = 30° <b>4</b> = 40° <b>8</b> = 80° <b>D</b> = 120° <b>F</b> = 30° Diffused lens	<b>N</b> = None <b>A</b> = On/off aisle motion <b>B</b> = On/off 360 motion <b>C</b> = On/off cold temp aisle <b>D</b> = On/off cold temp 360 <b>E</b> = Daylight sensor <b>F</b> = Aisle motion /daylight <b>G</b> = 360 motion /daylight <b>H</b> = Pre-wired (no sensor) <b>J</b> = 0-10V Motion 360 <b>K</b> = 0-10V Motion aisle <b>L</b> = 0-10V Motion 360 cold <b>M</b> = 0-10V Motion aisle cold  <b>Note:</b> Dimming sensors are not compatible with 480V options.	<b>V</b> = 0-10V Dimming  <b>Note:</b> 480V motion is on/off only.  <b>Note:</b> No 0-10V Daisy Chaining with 347-480V fixtures.	<b>ST</b> = Standard <b>22</b> = ½" Threaded rod mount kit* *Rod and nuts not included <b>23</b> = ¾" Pendant Mount Kit** **Conduit not included  <b>UP</b> = Indirect Mount <b>41</b> = Y-Cable/ Hook 5 ft. <b>42</b> = Y-Cable/ Hook 10 ft. <b>43</b> = Y-Cable/ Hook 15 ft. <b>44</b> = Y-Cable/ Hook 20 ft. <b>61</b> = Indirect Y-Cable/ Hook 5 ft. <b>62</b> = Indirect Y-Cable/ Hook 10 ft. <b>63</b> = Indirect Y-Cable/ Hook 15 ft. <b>64</b> = Indirect Y-Cable/ Hook 20 ft.	<b>K</b> = Knock out access <b>A</b> = 6 ft. 18-3 cord <b>B</b> = 12 ft. 18-3 cord	<b>N</b> = None <b>A</b> = 15A Straight Plug <b>B</b> = 20A Straight Plug <b>C</b> = 15A Twistlock Plug <b>D</b> = 20A Twistlock Plug	<b>W</b> = White Powder coat	<b>W</b> = Wireless <b>EL1</b> = 120° Battery Backup <b>EL5</b> = 50° Battery Backup  <b>Note:</b> Wireless not available for 347V or 480V fixtures.

### Available ABHG configurations:

MODULE #	DRIVE CURRENT	LED COUNT	TYPICAL INITIAL LUMENS 70 CRI		TYPICAL SYSTEM WATTAGE 120-277V 347/480V	LPW	
			4000K	5000K		4000K	5000K
1	V	36	9,100	9,300	86	105	108
2	T	48	12,100	12,400	113	107	110
2	H	64	16,150	16,550	147	110	112
3	H	96	24,250	24,850	225	108	110
4	H	128	32,300	33,100	295	110	112

MODULE #	DRIVE CURRENT	LED COUNT	TYPICAL INITIAL LUMENS 80 CRI		TYPICAL SYSTEM WATTAGE 120-277V 347/480V	LPW	
			4000K	5000K		4000K	5000K
1	V	36	8,350	8,350	86	97	97
2	T	48	11,150	11,150	113	99	99
2	H	64	14,900	14,900	147	101	101
3	H	96	22,300	22,350	225	99	99
4	H	128	29,750	29,800	295	101	101

**Note:** Lumen data shown is for 120° (1) optic. See table below for other light optic factors.

OPTICS BEAM	% OUTPUT
120° (1)	100.0 %
20° (2)	101.9 %
30° (3)	101.5 %
40° (4)	101.5 %
80° (8)	98.6 %
120° Diffused (D)	90.4 %
30° Diffused (F)	99.7 %

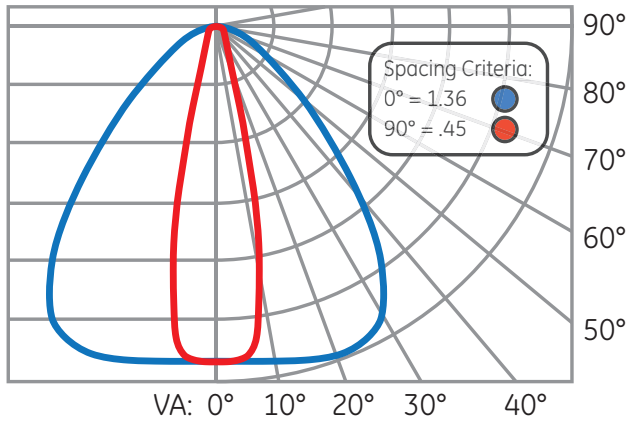
See Mounting & Accessories

**Note:** IES files located on GE website [www.gelighting.com](http://www.gelighting.com)

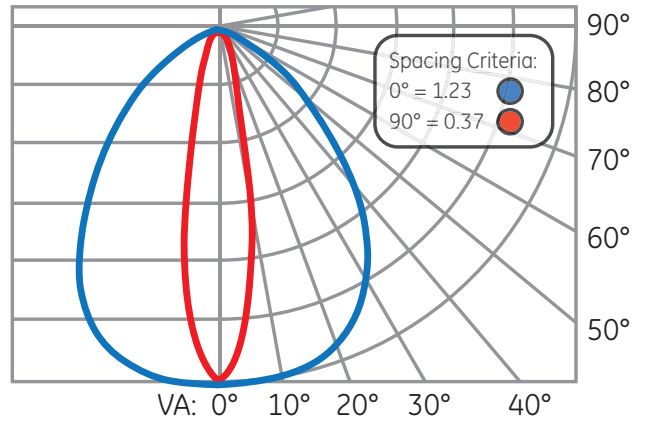
# Photometrics

## Optics for Common Applications

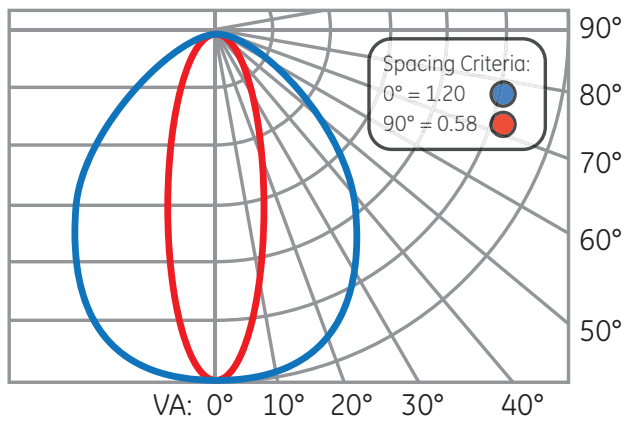
**Aisle Distribution**  
20° Full Beam Angle



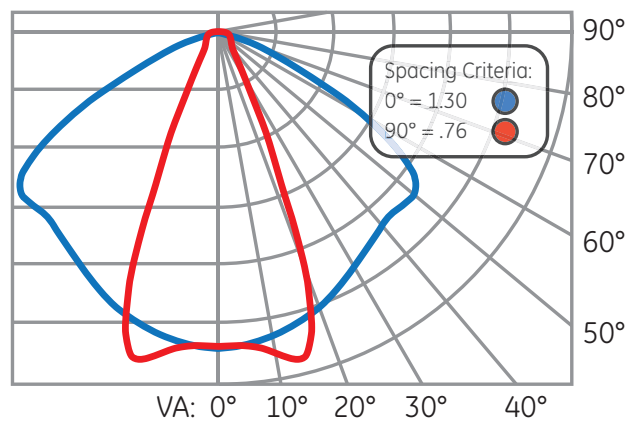
**Aisle Distribution**  
30° Full Beam Angle



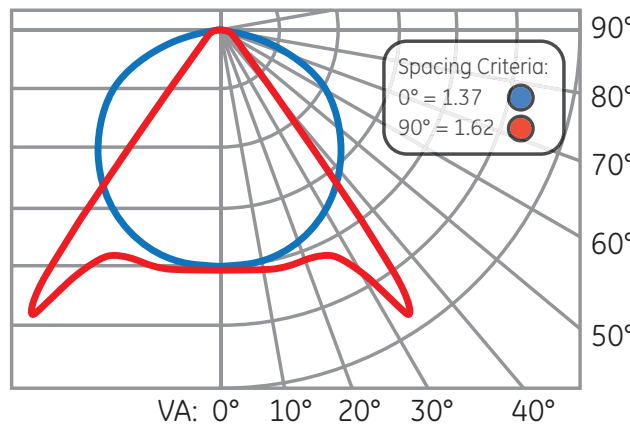
**Aisle Distribution**  
30° Diffuse Angle



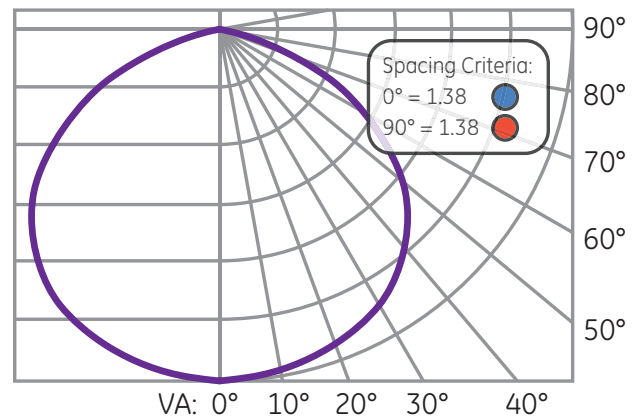
**Narrow Distribution**  
40° Full Beam Angle



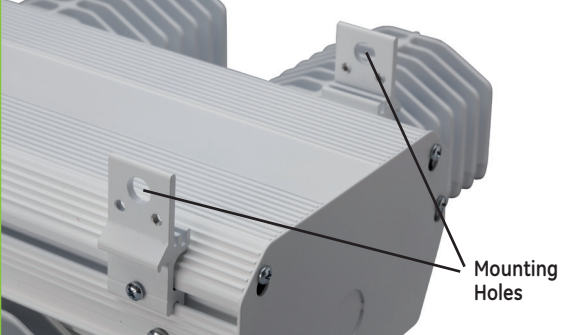
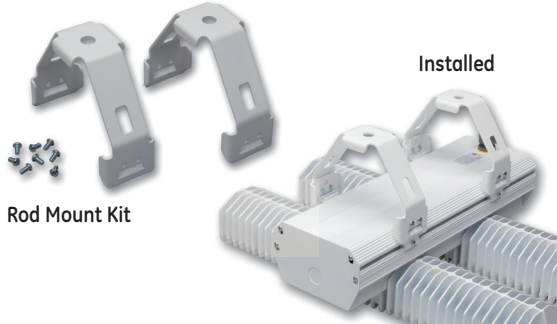
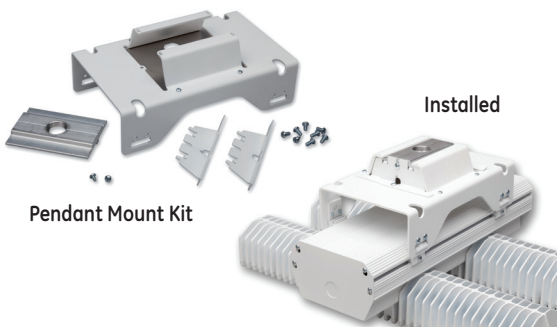
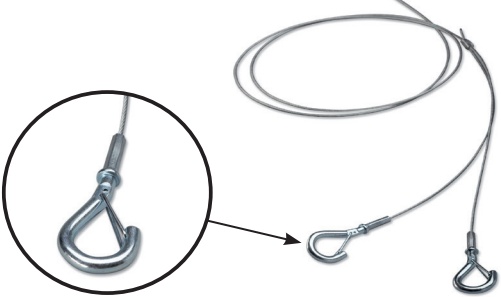
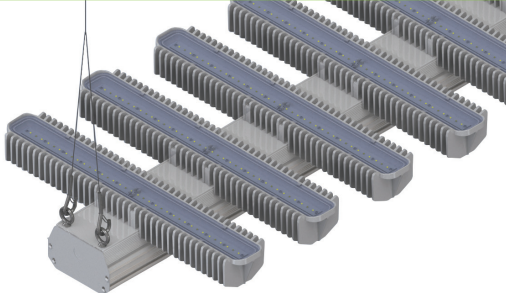
**Standard Distribution**  
80° Full Beam Angle



**Standard/Diffused Distribution**  
120° Full Beam Angle



# Mounting & Accessories

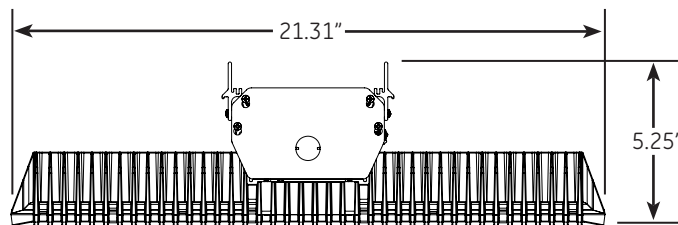
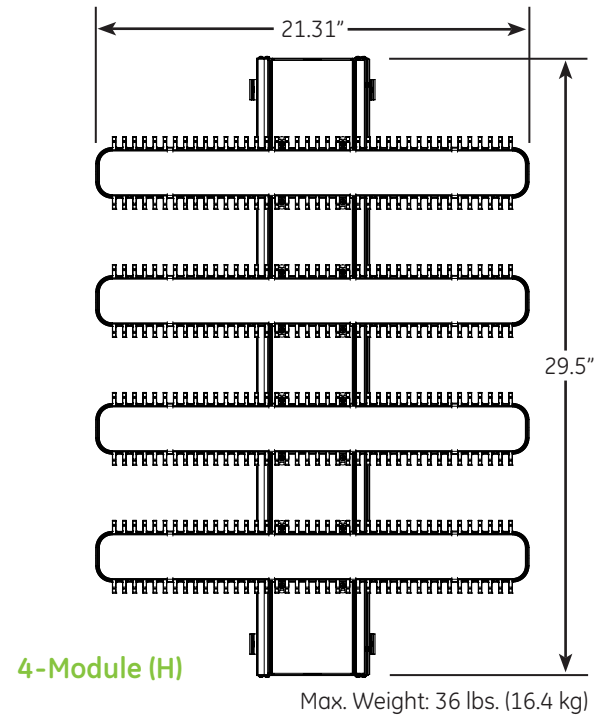
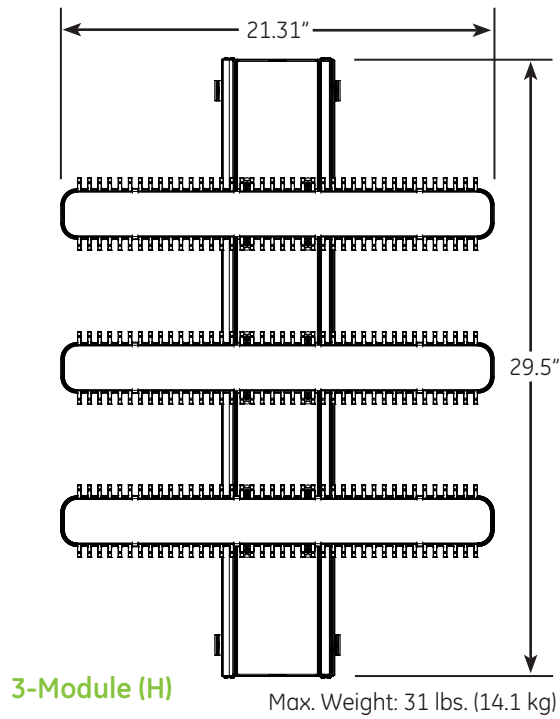
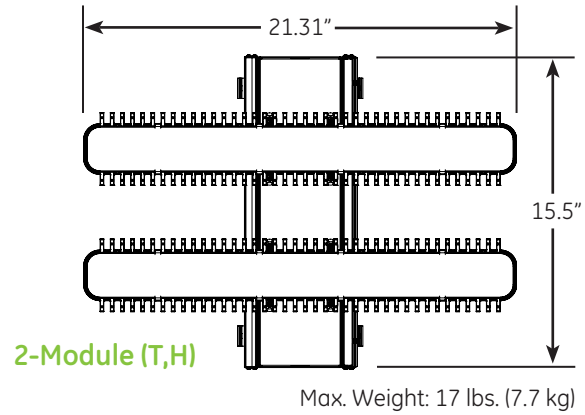
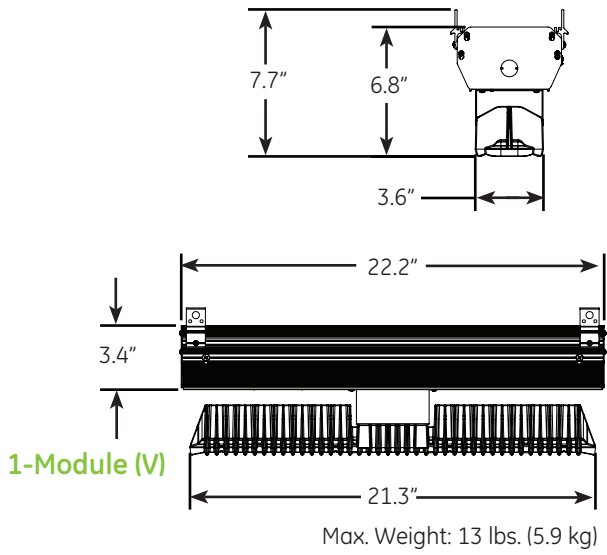
MOUNTING OPTIONS	IMAGE	ORDER LOGIC CODE
<p><b>Standard Chain/Cable Mount</b> Available on all fixture configurations (chain not included). Y-Cable w/hook can be ordered as an accessory.</p>	 <p>Mounting Holes</p>	<p>ST = Standard</p>
<p><b>Rod Mount (optional)</b> Available on all fixture configurations. Attaches to 1/2" threaded rod (rod and nuts not included).</p>	 <p>Rod Mount Kit</p> <p>Installed</p>	<p>22 = 1/2" Threaded Rod Kit</p>
<p><b>Pendant Mount (optional)</b> Available on all fixture configurations. Attaches to 3/4" threaded conduit (conduit not included).</p>	 <p>Pendant Mount Kit</p> <p>Installed</p>	<p>23 = 3/4" Pendant Mount Kit Note: Cannot be used with 6 module High Output or Very High Output fixture.</p>
<p><b>Y-Cable w/hook (optional)</b> 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-05ft-Pair 42=Y-Cable-Hook-10ft-Pair 43=Y-Cable-Hook-15ft-Pair 44=Y-Cable-Hook-20ft-Pair Max Load: 200 lbs. per pair</p>
<p><b>Indirect Mount</b> Available on all fixture configurations</p>		<p>UP=Indirect (No Y-Cable) 61=Indirect w/05ft Y-Cable 62=Indirect w/10ft Y-Cable 63=Indirect w/15ft Y-Cable 64=Indirect w/20ft Y-Cable Max Load: 200 lbs. per pair</p>

Chain/cable mount is standard and included in price. Price adder for Y-Cable, Rod Mount, Indirect Mount, and Pendant Mount. Consult Sales for latest information. See "Installation Instructions" for mounting details.

# Product Dimensions

## Scalable High Bay (ABHG-UL & cUL)

### ABHG-Series



2, 3, 4-Module 120/277V, 347/480V

# Lens selection by application

The Albeo™ ABHG-series optical lens system enables LEDs to provide precise illumination where needed. Lenses are designed for commercial & industrial applications where mounting height, fixture spacing & light levels help determine lens selection. The following table outlines lens options and suggested application. Consult factory for specific project layouts.

LENS TYPE	MOUNTING HEIGHT	SPACE TYPE
Diffused 120°	Below 20 Feet	Open Floor Plan
Standard 120°	Any	Open Floor Plan
80°	Any	Open Floor Plan
40°	Below 20 feet	Low Bay Racked Aisles
30°	Above 20 feet	High Bay Racked Aisles
20°	Above 20 feet	High Bay Racked Aisles
Diffused 30°	Below 20 feet	Low Bay Racked Aisles



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