



LARGE VOLUME SPACE GUIDE 1

LED HIGH BAY

LARGE VOLUME SPACE



SPACE CHARACTERISTICS

Length: 150' **Width:** 72'

Height: 28' Open Ceiling **Reflectivity:** Ceiling = 80%

Walls = 30% Floor = 20%

PRODUCT SPECIFICATIONS

Dimensions: Variable **Optics:** Wide Distribution

Light Source: High Output LEDs

CCT: 5000K CRI: 68

Lumen: 10,778 Delivered

Depreciation: 0.70 @ 100.000 hrs.

Rated Life: 100.000 hrs.

Watts: 112

THE OPPORTUNITY

In large volume spaces, such as a warehouse or manufacturing facility, it is possible to provide high quality lighting that illuminates the stacks and floor area to recognized standards, as well as meet or beat local energy codes, and extend the maintenance schedule.

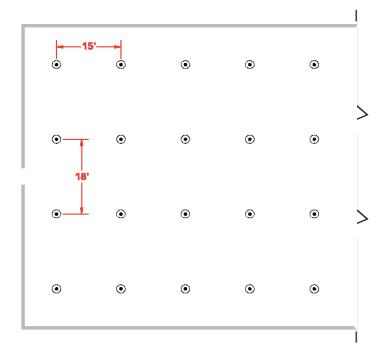
THE SOLUTION

Install industrial high bay LED luminaires equipped with broad optical distribution and superior color rendering properties. This type of fixture typically has options for integrally mounted occupancy sensors and photocells for additional energy savings.

DESIGN CONSIDERATIONS

Tall obstructions, such as stacks and large machinery, have a large impact on the illumination of the space. Vertical surfaces absorb and block light. If shelving stacks approach the ceiling height, fixtures should be centered in the aisles. Lower stacks allow more flexibility with luminaire layout.

Cold Storage LED High Bay | 15' x 18' Spacing



INSTALLATION SPECS

Number of Luminaires: 28 (20 shown here)

Luminaire Spacing: 20' x 22'
Mounting Condition: 24" Pendant
Mounting Height: 26' 0" AFF

Average Illumination:

~17 fc horizontal ~5.5 fc vertical **Watts/sq. ft.:** ~0.28

IES Recommended Footcandles (fc):

10 - 30 fc horizontal 5 - 15 fc vertical

CONTROLS STRATEGY

Significant energy savings can be gained by use of occupancy sensors to turn lights OFF automatically after hours, and when the space is empty during business hours. Consider selecting luminaries with integral occupancy sensors to minimize installation cost.

ENERGY SAVING STRATEGIES

STRATEGY
BENEFIT
TECH NOTE

Integrated occupancy sensors
Simple to commission, minimizes installation costs
Not all sensors function in large environment