JHBL LED High Bay
Application Guide

The JHBL LED high bay is built to withstand moisture, dust and airborne contaminants in harsh industrial environments. It is an ideal one-for-one replacement of HID and fluorescent high bay systems, saving anywhere from 20% to 57% energy costs over traditional sources. Optional integrated controls provide additional design flexibility and energy savings. Calculations below are based on the assumptions listed at the left. Please use the **Visual Interior Tool™** to create your own space.

Assumptions

50,000 Sq. Ft. Building (200' x 250')

35' Ceiling

2.5' Workplane

50/30/10 Reflectances

LLF for LED: 0.92

LLF for Fluorescent: 0.86

LLF for HID: 0.70 for Pulse-Start

4000K CCT / 70+ CRI

20' Mounting height & Wide Distribution

Luminaire	Watts/Unit	Footcandles 16' x 16' space (192 fixtures)	Footcandles 20' x 20' space (120 fixtures)	Footcandles 24' x 24' space (80 fixtures)
JHBL 18000LM WD LED	153W	60 fc	37 fc	25 fc
4-lamp T5HO	234W	51 fc	32 fc	21 fc
320W Pulse-Start MH	363W	52 fc	32 fc	22 fc

30' Mounting height & narrow Distribution

Luminaire	Watts/Unit	Footcandles 18' x 18' space (154 fixtures)	Footcandles 24' x 24' space (80 fixtures)	Footcandles 30' x 30' space (56 fixtures)
JHBL 24000LM ND LED	197W	57 fc	30 fc	21 fc
6-lamp T5HO	351W	55 fc	29 fc	20 fc
400W Pulse-Start MH	452W	55 fc	29 fc	21 fc

Typical Footcandle Requirements

Manufacturing

Frame Assembly	50
Machining	75
Presses/Shears	75
Punches	75
Welding	30

Foundries

Annealing	30
Casting Furnace Area	30
Core Making - Fine	150
Core Making - Medium	75

Foundries (cont.)

Molding - Large	75
Molding - Medium	150
Pouring	75
Shakeout	30
Sorting	75

Rolling Mills

Cold Strip	30
Hot Strip	30
Pipe/Rod/Wire Drawing	50
Tinning/Galvanizing	50

Natatoriums

Competition (Deck)	20
Competition (Over Water)	50
Recreation (Deck)	16
Recreation (Over Water)	50
Televised (Deck)	50
Televised (Over Water)	75

Ice Arenas

Competition	75
Recreation	50
Televised	150

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