

luzon
lighting™



Linear High Bay
Presentation

High Efficiency

160 lm/W

ECONOMICIAL LHB



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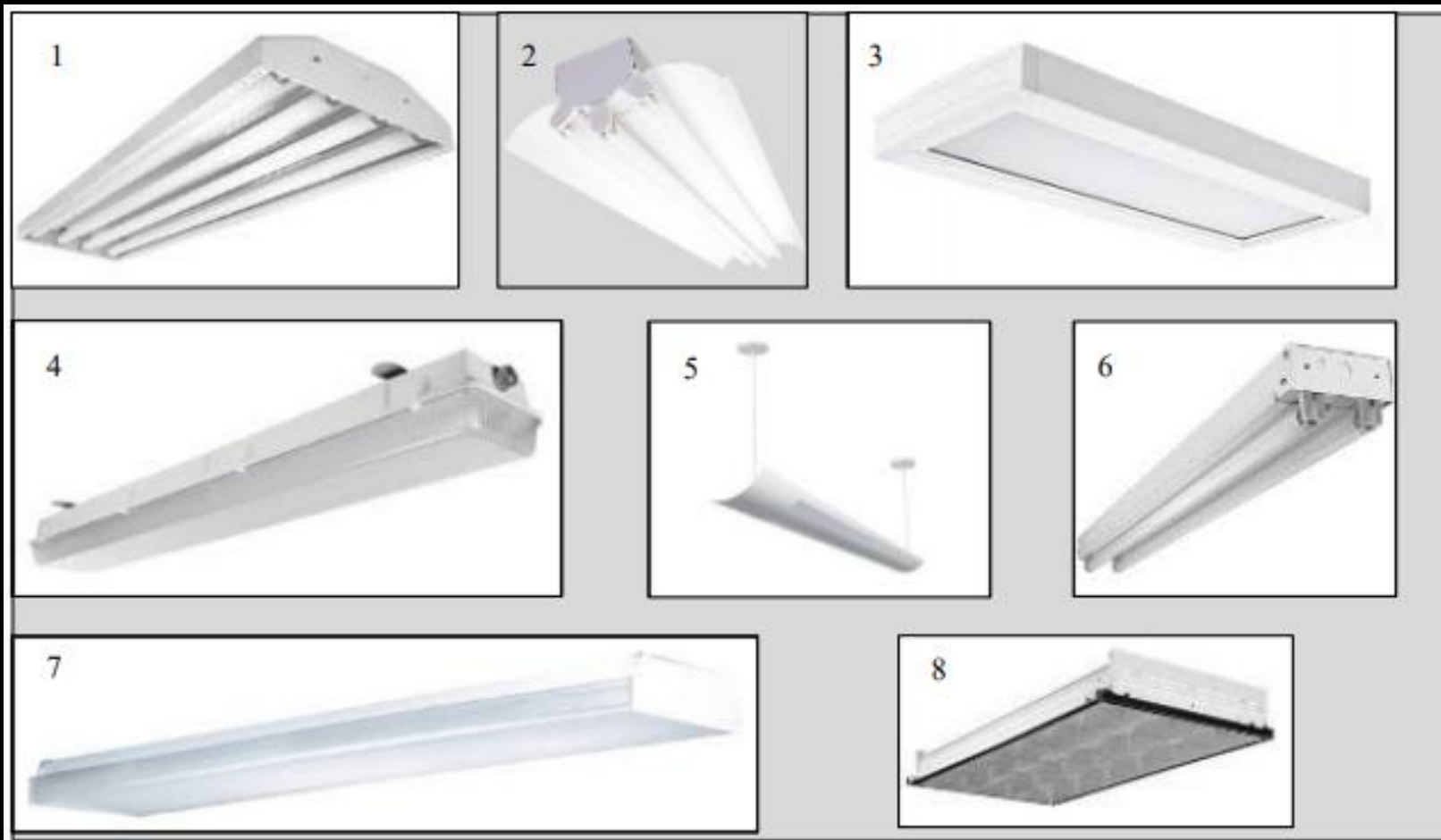
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ONE

MARKET ANALYSIS

Market Background

Linear fluorescent systems (with T5, T8, and T12 lamps) are widely utilized for commercial and industrial applications. LED linear HB is Ideal one-for-one replacement of conventional lighting systems like below:



Business Opportunities

The industrial lighting market was valued at USD 4,025.6 million in 2018 and is expected to reach USD 5,179.2 million by 2024. While, LED linear HB is the key player of industrial lighting.

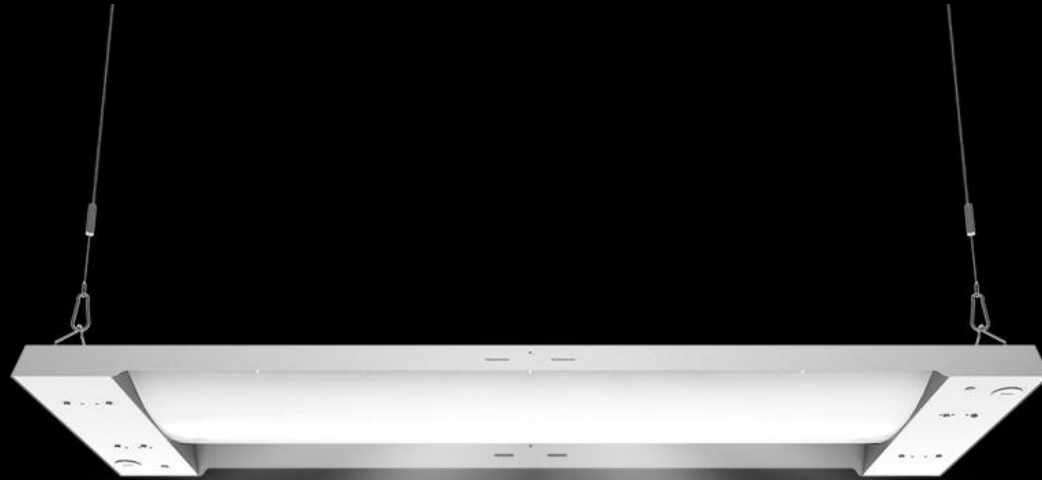
The top players in global LED linear fixtures market including:

- Acuitybrands (Lithona)
- COOPER
- SYLVANIA
- PHILIPS

TWO

PRODUCT FEATURES

PRODUCT OVERVIEW



Large light-emitting area

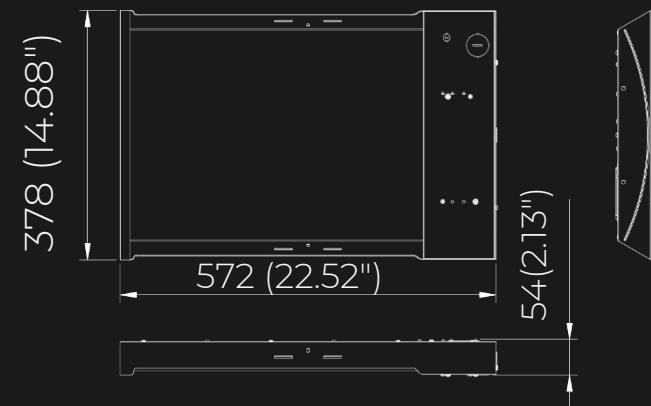
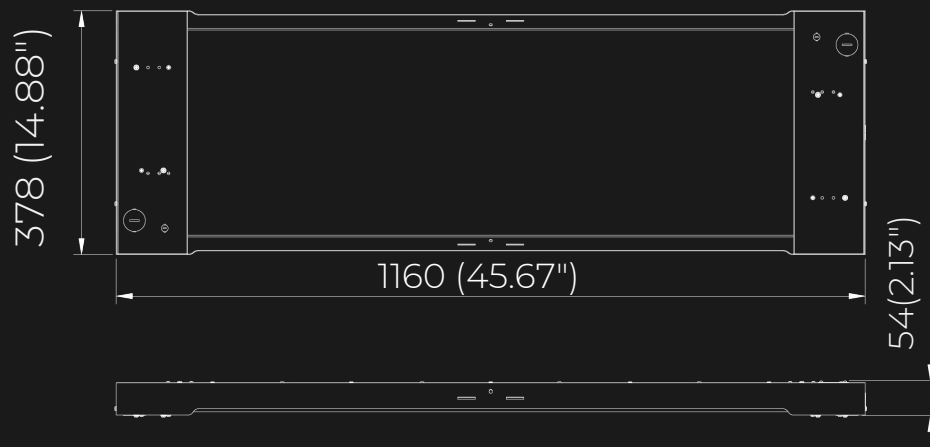
LED Linear High Bay offers high efficacy and uniform light in a broad range of commercial and industrial applications. Featuring a value-optimized design and intelligent controls, HiEff fixtures gives budget-conscious customers a reliable solution with quality components.

PRODUCT SIZE



LHB12 comes in two sizes

Two sizes for 300 Watts and 150 Watts



SPECIFICATION

150~160lm/W solution

Power		150W	300W
Luminous Flux (±5%)		24000LM	48000LM
Efficacy		160LM/W(5000K,Ra70) / 150LM/W(5000K,Ra80)	
Correlated Color Temperature		5000K (4000K optional)	
Color Rendering Index		Ra70/Ra80	
Beam Type		Clear 120°	
		Milky 120°	
Size (W x L x H)		22.52"x14.88"x2.13" (572x378x54mm)	45.67"x14.88"x2.13" (1160x378x54mm)
Weight (Driver included)		7.14±0.44Lbs(3.24±0.2kg)	14.18±0.44Lbs(6.43±0.2kg)
Gross Weight		9.33±0.44Lbs(4.23±0.2kg)	17.26±0.44Lbs(7.83±0.2kg)
Material	Body	SPCC	
	Optic	PC hood	
Finish		Powder Coating	
Fixture Color		White	
Mounting Option		Suspending or Ceiling Mounted	
Operating Temperature		-22°F ~ 113°F (-30°C ~ 45°C)	
Life Time		50,000 Hours (@77°F / 25°C)	
Warranty		5 Years	
Dimmable		0-10V	
Intelligent Control		Motion Sensor	

FEATURES

- 150W/300W is available, direct replacement of 400W, even 1000W HID.
Lumen packages: 24,000lm, 48,000lm
- 160lm/W @5000K 70Ra, 150lm/W @5000K 80Ra
- 2 sizes heat sink make it most cost-effective
- 120deg optic lens could cover most mounting height
- Versatile suspension mounted, ceiling mounted optional
- 0-10V Dimming, microwave motion sensor, and PIR sensor available
- High quality ensurance via various kinds of reliability tests, including drop test, thermal test, UV test, and salt spray test, etc.

RELIABILITY TESTS

IES test

The luminous efficacy of LHB12-300W is 158.94lm/W according to IES.

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.7V I:2.580A P:307.5W PF:0.9955		Lamp Flux:48874x1 lm	
NAME: LHB12-300	TYPE:300W	WEIGHT:	
SPEC.:5070-L00C20-03	DIM.:	SERIAL No.:	
MFR.:	SUR.:0.928*0.378	Shielding Angle:	
DATA OF LAMP	PHOTOMETRIC DATA	Eff: 158.94 lm/W	

Suspension test

HiEff Linear High Bay fixtures pass suspension test. The fixtures have no distortion when hanging equipment with four times weight after 48hrs test

Table 11: Suspensions

表11: 悬挂测试

P


Test	Four times the weight ,48 hour
测试方法	四倍样品重量均匀施加于灯具上,持续 48 小时
测试依据	IEC/EN 60598-1, CLAUSE 4.14.1
Base of Test	IEC/EN 60598-1 4.14.1 章节
Base of Result	After completion of the tests, components of the suspension and fixing system have no appreciable deformation
判定依据	测试完成后,灯具的悬挂紧固部件应无明显变形

RELIABILITY TESTS

Surge Test

Table 18: Surge test 表18: 雷击浪涌测试		P
Test 测试方法	Wave-Shape:	Combination Wave 1.2/50 us Open Circuit Voltage 8 /20 us Short Circuit Current
	Test Voltage:	Power Line:4 kV 6 KV
	Surge Input/Output:	L-N, L-PE, N-PE
	Generator Source:	2 ohm between networks
	Impedance:	12 ohm between network and ground
	Polarity:	Positive/Negative
	Phase Angle:	0°/90°/180°/270°
	Pulse Repetition Rate:	1 time / 30S. (maximum)
	Number of Tests:	5 positive and 5 negative at selected points
	测试依据 Base of Test	Compliance with IEC/EN 61000-4-5
Base of Result 判定依据	Susceptibility performance Criteria:	

IK test

Table 19: Humidity test 表19: 潮湿测试		P
Test 测试方法	The luminaire is placed in the most unfavourable position of normal use, in a humidity cabinet containing air with a relative humidity maintained between 91 % and 95 %. The temperature of the air at all places where samples can be located shall be maintained within 1 °C of any convenient value "t" between 20 °C and 30 °C and 48h. 灯具在潮湿箱内，置于正常使用中最不利的位置。潮湿箱内空气的相对湿度保持在 91 % ~ 95 %。空气温度 t 为 20 °C ~ 30 °C 之间任一适宜值，所有能放置样品的地方空气温度的误差应保持在 1 °C 之内。测试 48 小时	
测试依据 Base of Test	UL1598 CLAUSE 16.5& UL 8750 CLAUSE 8.14;IEC/EN 60598-1, CLAUSE 9.3.1	
Base of Result 判定依据	Compliance is checked by the humidity treatment described in IEC 60598 9.3.1, followed immediately by the tests of UL1598 section 17(table6.7.8) 合格性由 IEC60598 的 9.3.1 章节的潮湿处理完成后立即进行 UL1598 第 17 章的试验(即本报告的表 678)来检验	
Record 记录	Photo of test 测试照片： 	

THREE

INSTALLATION & APPLICATIONS

INSTALLATION & APPLICATIONS

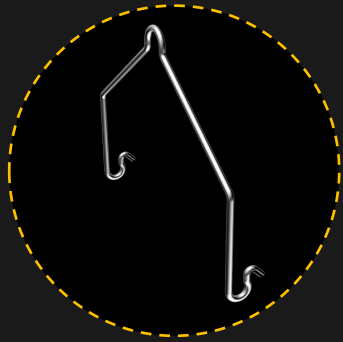


Suspending mount is standard for each linear high bays. LED linear high bay is ideal in applications such as manufacturing and ambient warehousing that have challenging economics, while also delivering lighting uniformity and distribution across a variety of workspaces.

MOUNTING OPTIONS

Installation & Reflectors

Y-hook for simple, one-man installation, easy and saving labor cost.



Special hook for being mounted firmly and securely.

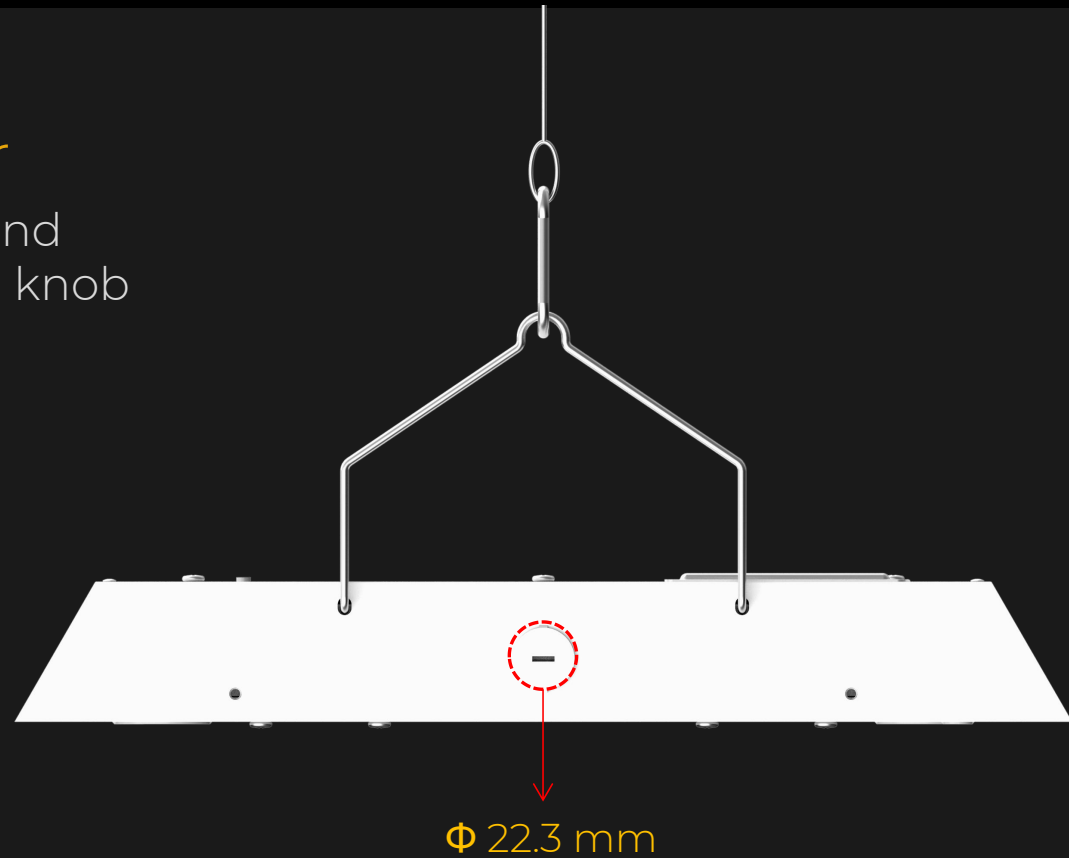


Optional clear cover and milky white cover

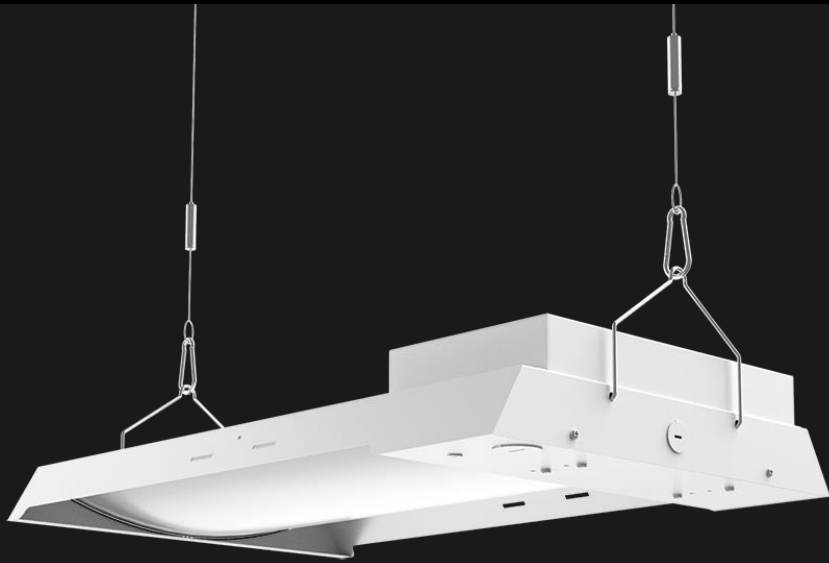
INTELLIGENCE CONTROLS OPTION

Hole for Knob Sensor

The hole diameter is 22.3mm and suitable for installing your own knob sensor easily.



INTELLIGENCE CONTROLS OPTION



Controls and Dimming

Emergency solution

0-10V dimming

PIR Sensor

Microwave motion sensor

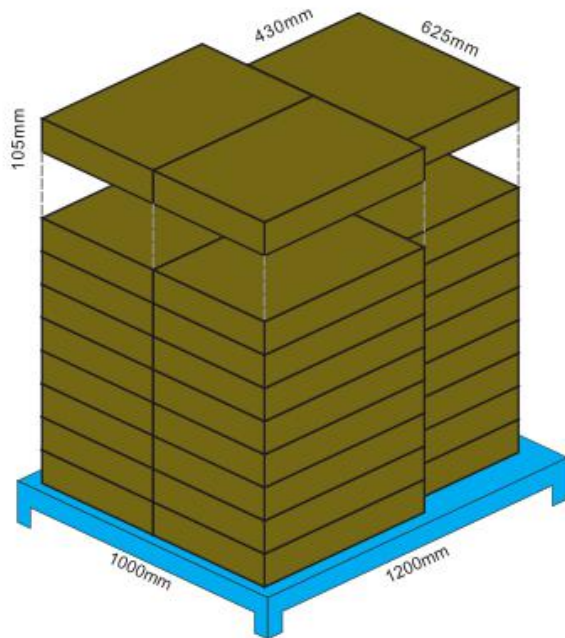
PACKAGING DEMONSTRATION



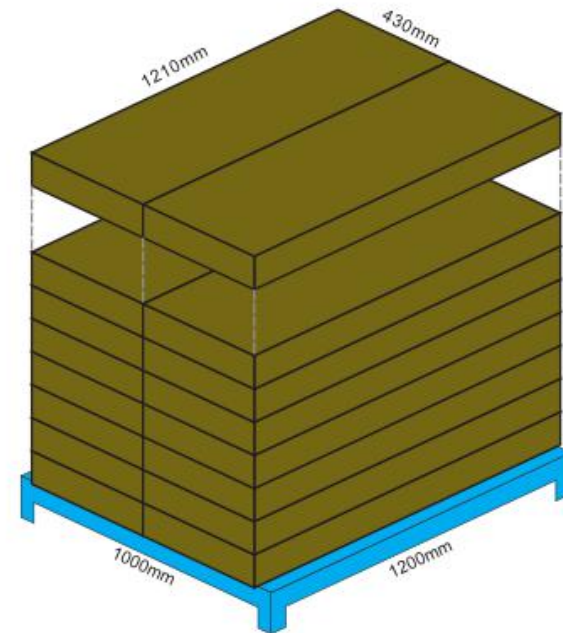
Package

Size/G.W: 150W 625*430*105mm/4.23Kg

300W 1210*430*105mm/7.83Kg



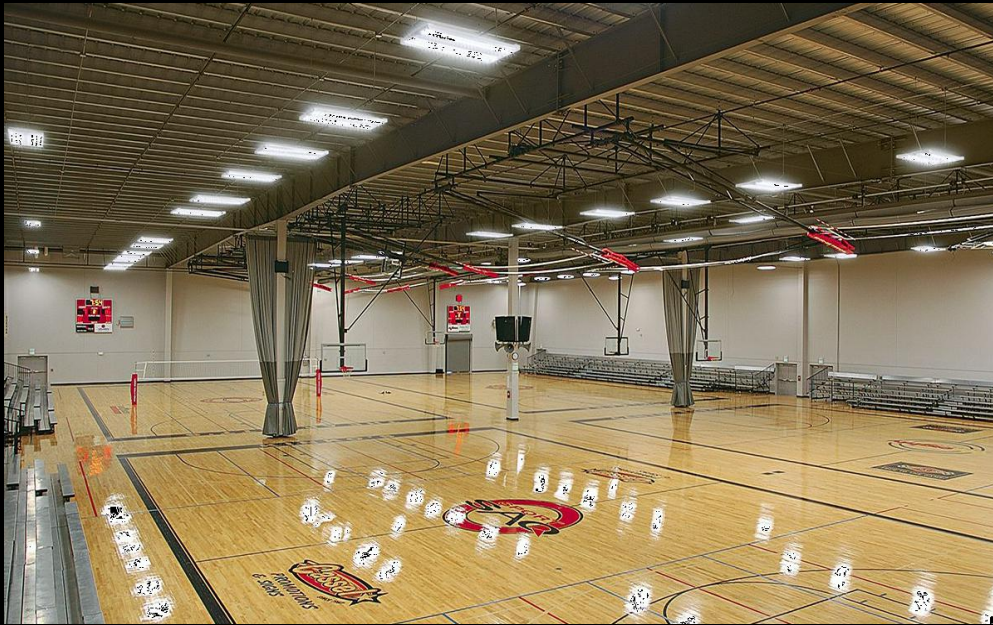
150W: 3 PCS for each layer



300W: 2 PCS for each layer

APPLICATIONS

Gymnasiums / Retail stores
Convention Center / Light & Industrial Warehouses



THANK YOU !