

Project:	
Location:	
Model#: LHB-15L-WS-3CS-35K	Type:
Client:	Qty:
Prepared by:	Date:

## SERIES SPECIFICATIONS

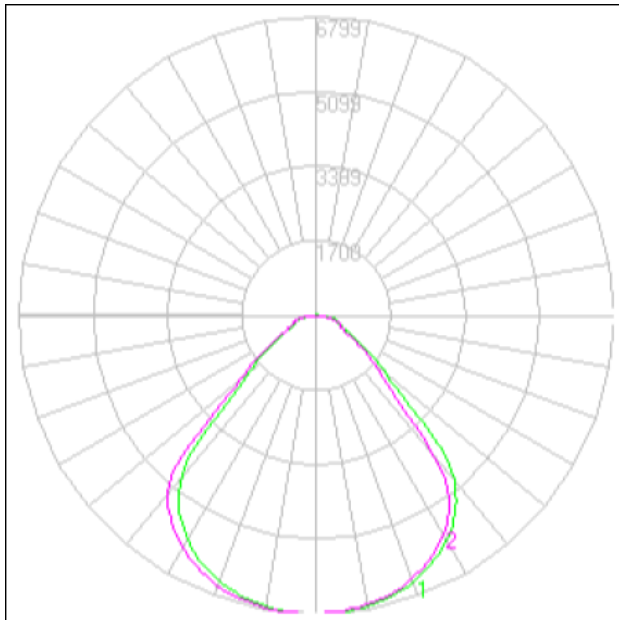


The LHB series linear high bay is designed with contractor requirements with many installation situations considered. It features a built in Z10 socket, allowing for 4-pin twist-lock sensors to be used with the fixture along with color and wattage selections. Available in multiple wattage and lumen packages the LHB is ideal for manufacturing, warehousing, commercial, and industrial applications and boasts a quick-change lenses design, allowing you to swap lenses in the field without the need for tools. It also has optional Emergency operation and surface mount kits available.

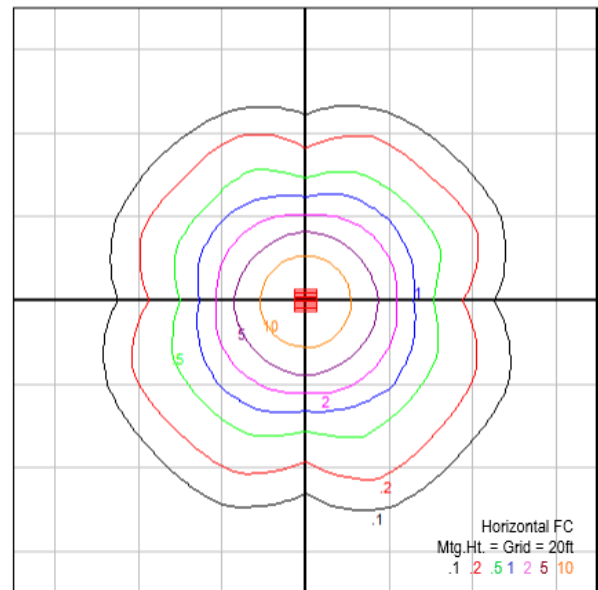


## PERFORMANCE SPECIFICATIONS

Luminance Distribution Chart



Isolux Diagram



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## Zonal Lumen Summary

Zone	Lumens	Zone	Lumens	Zone	Lumens	Zone	Lumens	Zone	Lumens	Zone	Lumens
0-10	645.35	30-40	3394.6	60-70	1016.1	90-100	1.71	120-130	5.18	150-160	6.94
10-20	1871.3	40-50	2598	70-80	515.31	100-110	2.34	130-140	6.54	160-170	5.25
20-30	2876.9	50-60	1648.1	80-90	158.3	110-120	3.65	140-150	7.5	170-180	2.14

Total Initial Lumen Output; 14765.2 lm at; 100W, 4000K

## Co-efficient of Utilization

### Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	103	100	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76
3	94	85	78	72	92	83	77	72	81	75	70	78	73	69	75	71	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	68	64	60	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	49	60	54	48	59	53	48	57	52	48	46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

**Initial Lumen Output:** 15,000 lm

**Beam Angle:** 90°

**Spacing Criteria:** 1.28 mtg hgt, 1.28 mtg hgt

**Ambient Operating Temp:** -40°C ~ 50°C / -40°F ~ +122°F

**CCN Number:** IFAM-7

**Efficacy:** 135 lm/W

**Field Angle:** 125°

**Environmental Rating(s):** IP20

**Certification Standards:** cULus, DLC Premium

**Limited Product Warranty:** 5 years

**CBCP:** 6,688 CD

**Luminaire Type:** Suspended, Direct

**UL Classification:** Damp Location

**DLC Number:** S-56W177

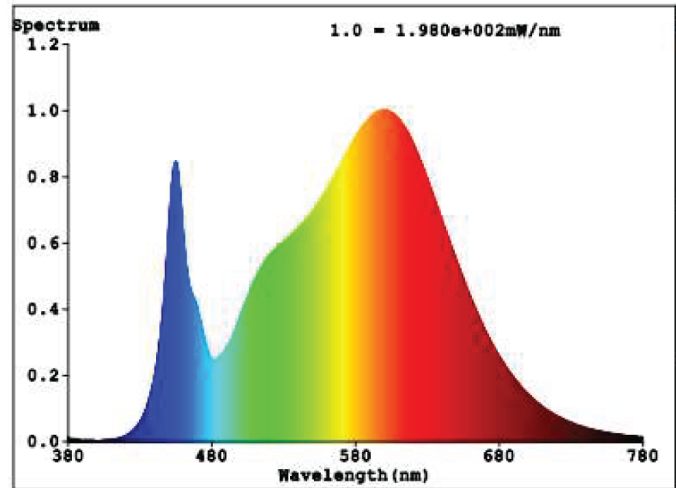
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## LED SPECIFICATIONS

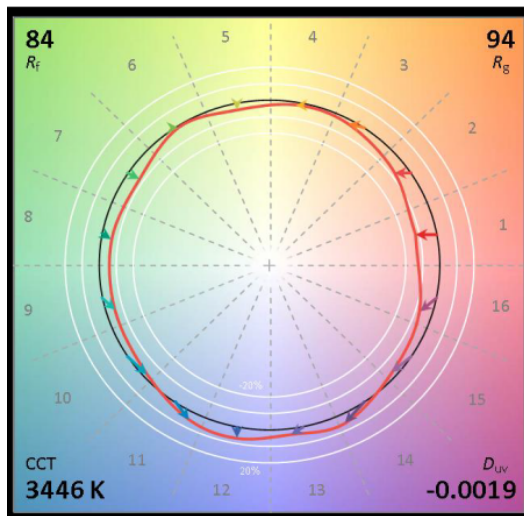
### R Tables

<b>R1</b>	<b>83</b>	<b>R9</b>	<b>8</b>
<b>R2</b>	<b>93</b>	<b>R10</b>	<b>84</b>
<b>R3</b>	<b>94</b>	<b>R11</b>	<b>80</b>
<b>R4</b>	<b>80</b>	<b>R12</b>	<b>68</b>
<b>R5</b>	<b>83</b>	<b>R13</b>	<b>86</b>
<b>R6</b>	<b>91</b>	<b>R14</b>	<b>98</b>
<b>R7</b>	<b>81</b>	<b>R15</b>	<b>76</b>
<b>R8</b>	<b>60</b>	<b>-</b>	<b>-</b>

### SPD



### TM-30



**Source Type:** LED

**Rg:** 94

**L90:** >48,000 Hrs

**Colour Tolerance:**  $\pm 300K$

**CRI:** > 80

**L70:** >54,000 Hrs

**Colour Temperature:** 3500K

**Duv:** -0.0019

**Rf:** 84

**L80:** >54,000 Hrs

**Chromaticity:**  $x=0.4063$   $y=0.3869$



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#### ELECTRICAL SPECIFICATIONS

**Input Voltage:** 120-347Vac  
**Current Draw at 120Vac:** 0.874  
**Auxiliary Control:** 12Vdc  
**THD at 120Vac(%):** 3.09  
**Dimming:** 0-10Vdc  
**Driver Certifications:** cRUus

**Input Frequency:** 50/60Hz  
**Current Draw at 347Vac:** 0.328  
**Power Factor at 120Vac:** 0.999  
**THD at 347Vac(%):** 12.07  
**Over Temperature Protection:** Auto recovery. The output recovers when the temperature returns to normal.

**Fixture Draw:** 105W; 90W; 70W (WS)  
**Max On-Delay:** < 1.000 S  
**Power Factor at 347Vac:** 0.902  
**Max Operating Case Temperature:** 055 °C  
**Short Circuit Protection:** Auto recovery. The output recovers when short is removed.

#### OCCUPANCY SENSOR INFORMATION

**Sensor Type:** Zhaga Z10 Socket built-in.  
Sensor and programmer extra

**Programing Type:** PIR

#### PHYSICAL SPECIFICATIONS

**Finish Colour:** White  
**Housing Material:** Aluminium  
**Weight:** 12.540 Kg / 5.693 Lbs

**Finish Type:** Powder Coat  
**Lens Material:** Polycarbonate (PC)  
**Entries:** 5 @ 3/4"

**Mounting:** Suspended, Direct  
**Lens Type:** Prismatic 90° X 90°

#### SHIPPING INFORMATION

**OrderingCode(s):** LHB-15L\_WS-3CS; Options ordered seperately

**Box Weight:** 12.540 Kg / 5.693 Lbs

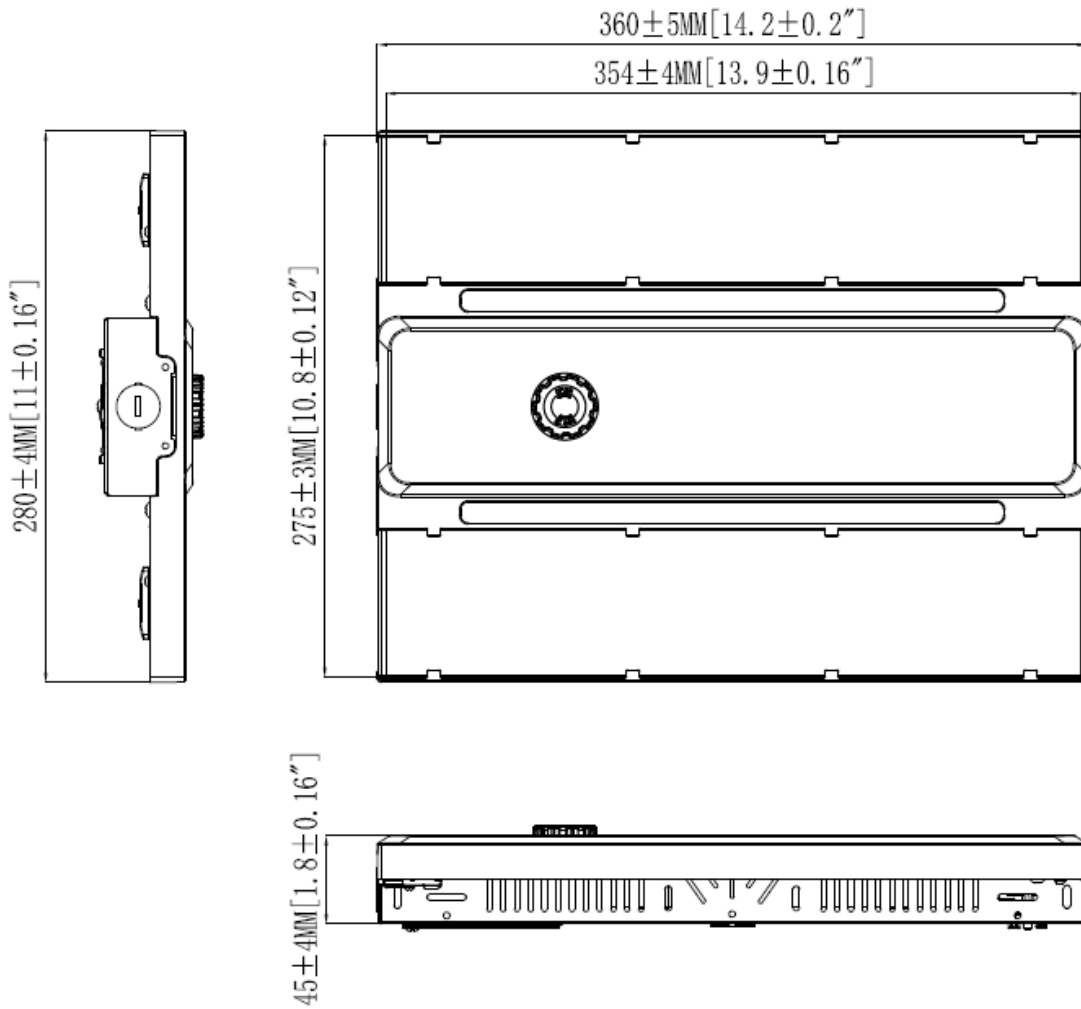
**Box Quantity:** 1

**Box Dimensions (L-W-H):** 380.0 x 300.0 x 70.1 mm / 14.960 x 11.810 x 2.760 in.

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## LINE DRAWING

### Line Drawings





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## SERIES ARCHITECTURE

### Series Architecture

EXAMPLE; LHB-15L-WS-3CS

SERIES	LUMENS	WATTAGE	COLOUR TEMP
LHB	[-15L] : 15,000 Lumens Max	[-WS] : 105/90/70W	[-3CS]: 3500K/4000K/5000K
	[-22L] : 22,000 Lumens Max	[-WS] : 155/130/105W	
	[-30L] : 30,000 Lumens Max	[-WS] : 215/180/160W	

The LHB comes standard with a 10ft Y-Toggle suspension cable kit. Fixtures can be surface mounted using the LHB-SMK surface mount kit (Sold Separately).

Options	Part Number	Description	Note
	LHB-45X90-LG	Aisle Lighting Lense. (Large)	Field Installed
	LHB-45X90-SM	Aisle Lighting Lense. (Small)	Field Installed
	LHB-EM		Field Installed
	LHB-SMK		Field Installed

Optional Extras: Z10-IROC-DIM; Z10-IROC-REMOTE