

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

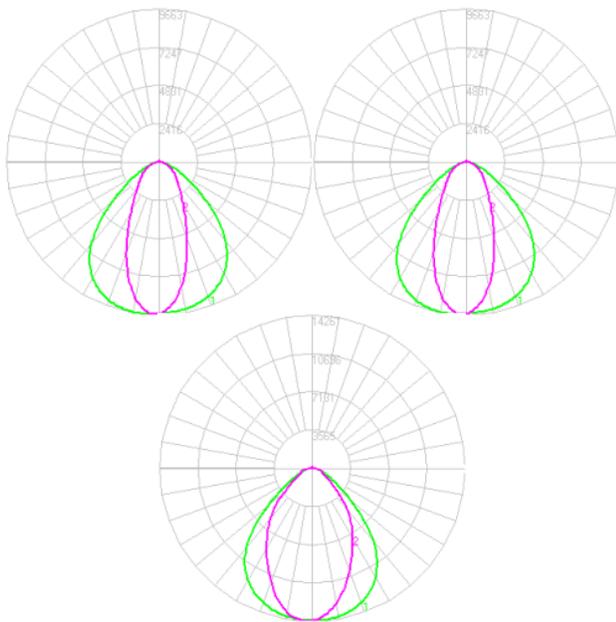
## SERIES SPECIFICATIONS

The LHB SO series is the ideal high bay for manufacturing, warehousing, commercial and industrial applications. The series features a built in Z10 sensor receptacle, allowing for 4 pin sensors to be used with the fixture along with color, wattage and optics selections.

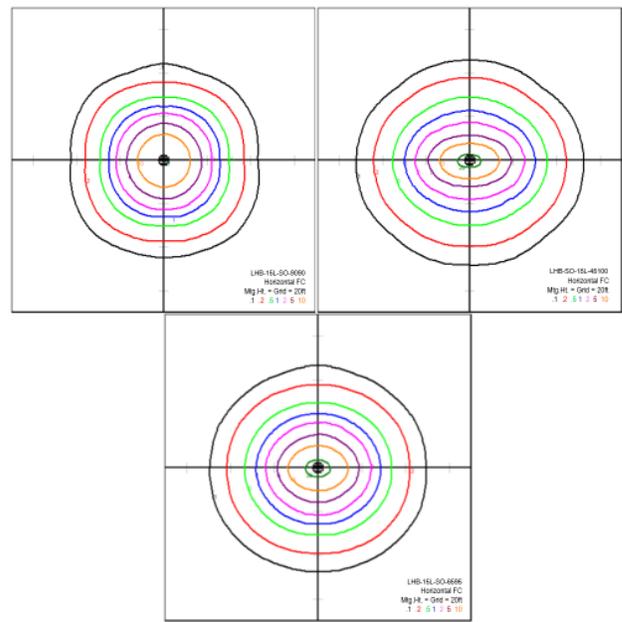


## PERFORMANCE SPECIFICATIONS

Luminance Distribution Chart



Isolux Diagram



Zonal Lumen Summary

Zone	Lumens	Zone	Lumens	Zone	Lumens	Zone	Lumens	Zone	Lumens	Zone	Lumens
0-10	758.5	30-40	3604.23	60-70	646.47	90-100	4.81	120-130	21.55	150-160	24.88
10-20	2170.62	40-50	2693.29	70-80	345.71	100-110	7.55	130-140	26.54	160-170	18.16
20-30	3246.29	50-60	1305.32	80-90	68.58	110-120	14.23	140-150	27.86	170-180	6.98

Total Initial Lumen Output; 14991.57 lm



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**Co-efficient of Utilization**

RC RW	80				70				50			30		
	70	50	30	10	70	50	30	10	50	30	10	50	30	10
<b>0</b>	119	119	119	119	116	116	116	116	111	111	111	106	106	106
<b>1</b>	109	104	99	95	106	101	97	94	97	94	91	93	90	88
<b>2</b>	98	90	83	77	96	88	82	76	84	79	74	81	77	73
<b>3</b>	90	79	70	64	87	77	69	63	74	68	62	71	66	61
<b>4</b>	82	70	61	54	80	68	60	53	66	58	53	63	57	52
<b>5</b>	75	62	53	46	73	61	52	46	59	51	45	57	50	45
<b>6</b>	69	56	47	40	67	55	46	40	53	45	40	51	45	39
<b>7</b>	64	51	42	35	63	50	41	35	48	41	35	47	40	35
<b>8</b>	60	46	38	32	58	45	37	31	44	37	31	43	36	31
<b>9</b>	56	42	34	28	54	42	34	28	41	33	28	39	33	28
<b>10</b>	52	39	31	26	51	38	31	26	37	30	26	37	30	25

**Initial Lumen Output:** 14,992lm

**Beam Angle:** 90°

**Spacing Criteria:** 1.24(0-180), 1.20(90-270)

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

**Limited Product Warranty:** 5 years

**Efficacy:** 146lm/W

**Field Angle:** 125°

**Environmental Rating(s):** IP20

**Certification Standards:** cULus

**CBCP:** 8,018cd

**Luminaire Type:** Suspended, Direct

**UL Classification:** Damp Location Listed

**CCN Number:** IFAM-7

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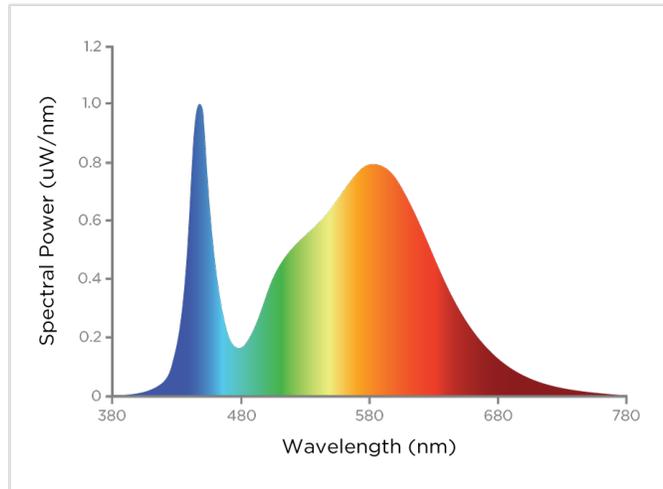
## LED SPECIFICATIONS

### R Tables

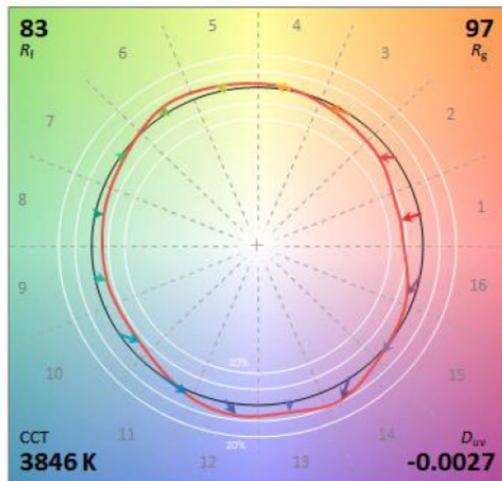
<b>R1</b>	80
<b>R2</b>	87
<b>R3</b>	92
<b>R4</b>	82
<b>R5</b>	81
<b>R6</b>	82
<b>R7</b>	86
<b>R8</b>	65

<b>R9</b>	3
<b>R10</b>	69
<b>R11</b>	81
<b>R12</b>	58
<b>R13</b>	82
<b>R14</b>	96
<b>R15</b>	75
<b>Ra</b>	82

### SPD



### TM-30



**Source Type:** LED  
**Rg:** 97  
**L90:** >48,000 Hrs  
**Colour Tolerance:** ±300K

**CRI:** > 80  
**L70:** >54,000 Hrs  
**Colour Temperature:** 3500K/4000K/5000K  
**Duv:** -0.0021

**Rf:** 83  
**L80:** >54,000 Hrs  
**Chromaticity:** x=0.3764 y=0.3699 (4000K)



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### ELECTRICAL SPECIFICATIONS

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

**Input Frequency:** 50/60 Hz  
**Current Draw at 347Vac:** 00.3026A  
**Power Factor at 120Vac:** > 0.95  
**THD at 347Vac(%):** 12.07  
**Over Temperature Protection:** Auto recovery. The output recovers when the temperature returns to normal.

**Fixture Draw:** 105; 90; 70W (S)  
**Max On-Delay:** <1s  
**Power Factor at 347Vac:** > 0.952  
**Max Operating Case Temperature:** 55°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:** Painted Steel  
**Weight:** 3.00 kg / 6.60 lbs

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

**Mounting:** Suspended, Direct  
**Lens Type:** 90°x90°/45°x100°/65°x95° (S)

### SHIPPING INFORMATION

**OrderingCode(s):** 0630-5613 - LHB-15L-WS-3CS-SO-WRV

**Box Weight:** 3.00 kg / 6.60 lbs

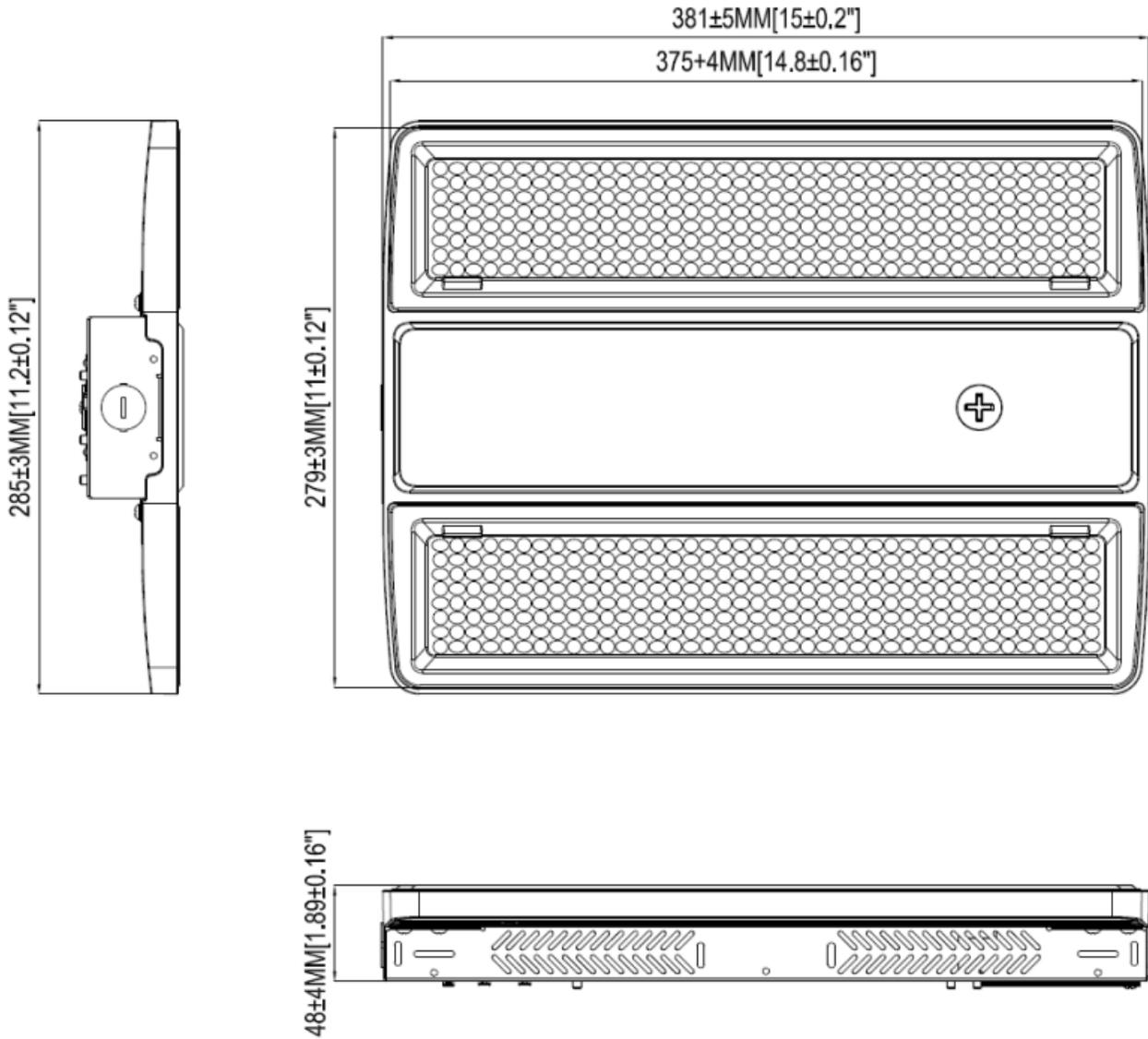
**Box Quantity:** 1

**Box Dimensions (L-W-H):** 401.32 X 304.8 X 94.996 mm / 15.8 X 12 X 3.74 in

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LINE DRAWING

Line Drawings





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**SERIES ARCHITECTURE**

**Series Architecture**

SERIES	LUMEN PACKAGE	WATTAGE	COLOUR TEMP	OPTICS	VOLTAGE
LHB(SO)	[-15L] : 15,000 Lumens Max.	[-WS] : 105/90/70W	[-3CS] 3500K/4000K/5000K	[-SO] 90X90.45X100,65X95	[-WRV] : 120-347Vac
	[-23L] : 23,000 Lumens Max.	[-WS] : 160/130/105W			
	[-35L] : 35,000 Lumens Max.	[-WS] : 240/180/160W			

SERIES	SIZE	OPTICS	3500K		4000K		5000K	
			LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
LHB	15L	90x90	14,420	139	14,992	146	14,816	107
		45x100	14,147	135	14,280	140	13,861	131
		65x95	15,055	150	15,609	157	15,375	151

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