



# Linear

## FloatPlane Suspended LED

CRI >80 3500K, 6000 lm/4ft



Project: \_\_\_\_\_  
 Spec Type: \_\_\_\_\_  
 Catalog No: 24x5LBBAJ \_\_\_\_\_  
 Qty \_\_\_\_\_  
 Line Notes: \_\_\_\_\_

Interior spaces should resonate, evoke emotion and satisfy a purpose. With FloatPlane LED, it's easier than ever to integrate sleek and sporty style into your layout and within your budget. Fresh and playful with two profile options, Curve and Edge, FloatPlane's performance rivals that of high-end LED luminaires with the affordability of fluorescent.

### Ordering guide

Product Type	Version	Source	Color Temp *	Lumens *	Lower Optics	Upper Optics	Run Length	Wiring †	Voltage	Driver	Finish
24		L	B	B	A	J					
24 FloatPlane	G5 Edge Suspended R5 Curve Suspended	L LED	A 4000K B 3500K C 3000K	B 6000 lm/4ft C 4500 lm/4ft E 3200 lm/4ft	A Acrylic diffuser	A Acrylic diffuser G 75% Down Kit J 100% Down Kit	04 4' 06 6' 08 8' XX Total run length (2' increments)	1 1 cct 3 1 cct w/ EM cct 5 1 cct w/ BP 7 1 cct w/ Dimming 8 1 cct w/ TW B 2 cct A/B N 1 cct w/ Dim & BP	1 120V 2 277V 3 347V	E Philips Advance  Other drivers available - consult factory	W Standard White T Titanium Silver B Black C Custom

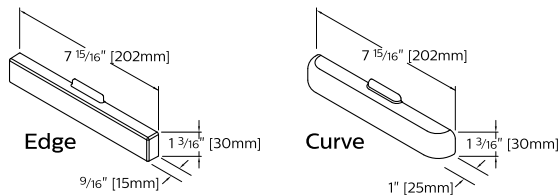
\* Nominal values within a range. Consult ies file for exact color temp, lumens and up/down distribution † Consult website for complete list of standard wiring options

### Mounting Hardware

**Mount Type**  
Consult separate mounting spec sheet for mount type options

**Suspension Length**  
Distance from ceiling to top of luminaire in inches

Endcaps -  Edge/Curve



### Integrated Controls

Please indicate with check mark.

- Response Daylight Sensor Single Zone (DS)
- Philips Actilume Occupancy Sensor (DO) (includes field commissionable daylight sensor)



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## Housing

Precision formed 18 gauge cold-rolled steel. Approx. cross section size: 1.5”h x 8”w (suspended) or 5.7”w (wall mount).

## Weight

Maximum: Suspended 3.5lb/ft, Wall 3.3lb/ft

## Optical System

White light emitted from dual linear arrays of lateral-facing LEDs is diffused and redirected into the upper and lower hemispheres through a combination of high reflectivity components and acrylic diffusers. This delivers a high efficiency 70% up / 30% down indirect/direct distribution with a wide, homogeneous batwing distribution in the upper hemisphere. Twin polymer diffusers on the lower surface with a combined optical aperture of 5-1/2” deliver a uniform, controlled brightness to maximize visual comfort and luminaire efficacy. Factory or field installable variable optics kits are available to modify the distribution to 75% down or close to 100% down light.

## Standard Driver

Philips Advance Xitanium. Output is Class 2 rated. Dimming: 0-10V, 5-100%.

## Electrical

Pre-wired to module ends, quick-wire connectors included.

## Mounting

**Suspended:** Rapid installation sling mount at joints and ends. High strength aircraft cable and stainless steel gripper provide unlimited vertical adjustment and are independently tested to meet stringent safety requirements.

**Wall:** A hidden steel rail and bracket system attaches to the existing structure and supports housings close to the wall. Mount positioning is fully variable along the modules to accommodate site conditions, but should be no more than 4-1/2” on center and always within 12” of an end or joint.

## Joints

Self-aligning, gasketed joining system. Access panels in the driver channel allow quick and hassle-free wiring of modules either before or after mechanical joints are completed.

## Endcaps

Diecast aluminum endcaps in either Edge or Curve versions to match housing.

## Finish

High quality powder coated, available in matte white, black or titanium silver. Other custom colors, including Pacific Aqua and Surf Yellow, available on request.

## Approvals

Certified to UL, CSA and IES standards.

## Lumen Maintenance

Lumen maintenance of the LEDs has been tested by the manufacturer in accordance with IESNA LM-80-08. At an ambient temperature of 25°C, the LED lumen maintenance expectation is:

**Suspended:**L<sub>80</sub> (12k) 70,000 hrs

**Wall mount:**L<sub>80</sub> (12k) 64,000 hrs

according to IES TM-21-11 Addendum A Reported methodology

## Warranty

Philips indoor professional luminaires 5 year LED warranty:

<http://www.philips.com/warranties>

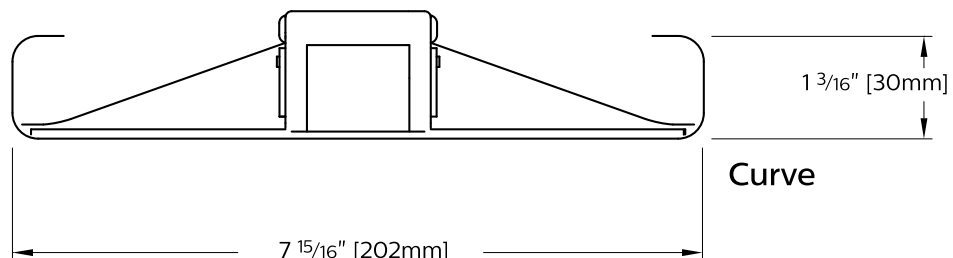
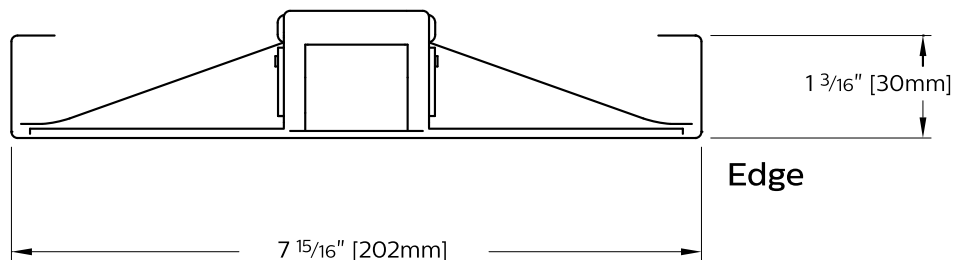
## Environment

Rated for dry or damp locations in operating ambient temperatures 0-40°C (32-104°F). Certain luminaire components may be adversely affected by contaminants. Damage caused by sulfur, chlorine, petroleum based solutions or other contaminants in the area of operation are not covered under warranty. Not suitable for natatorium environments.

Due to continuing product improvements, Philips Ledalite reserves the right to change the specifications without notice.

## Options and Details

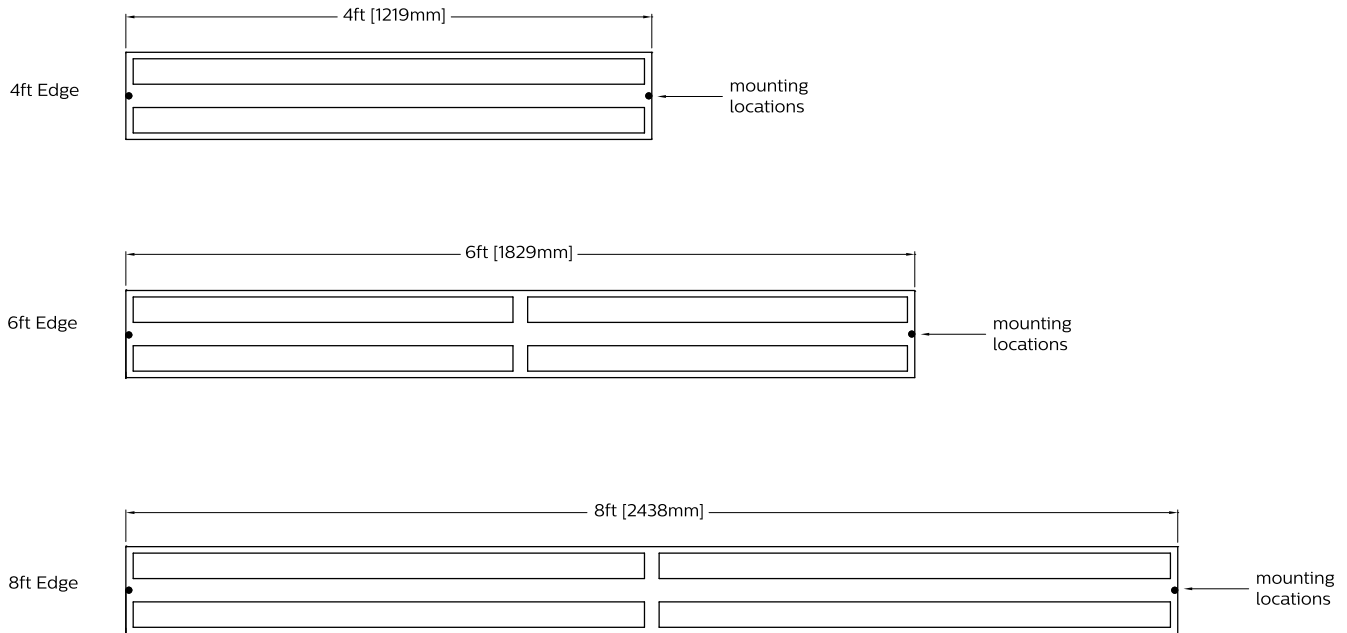
### Cross Section



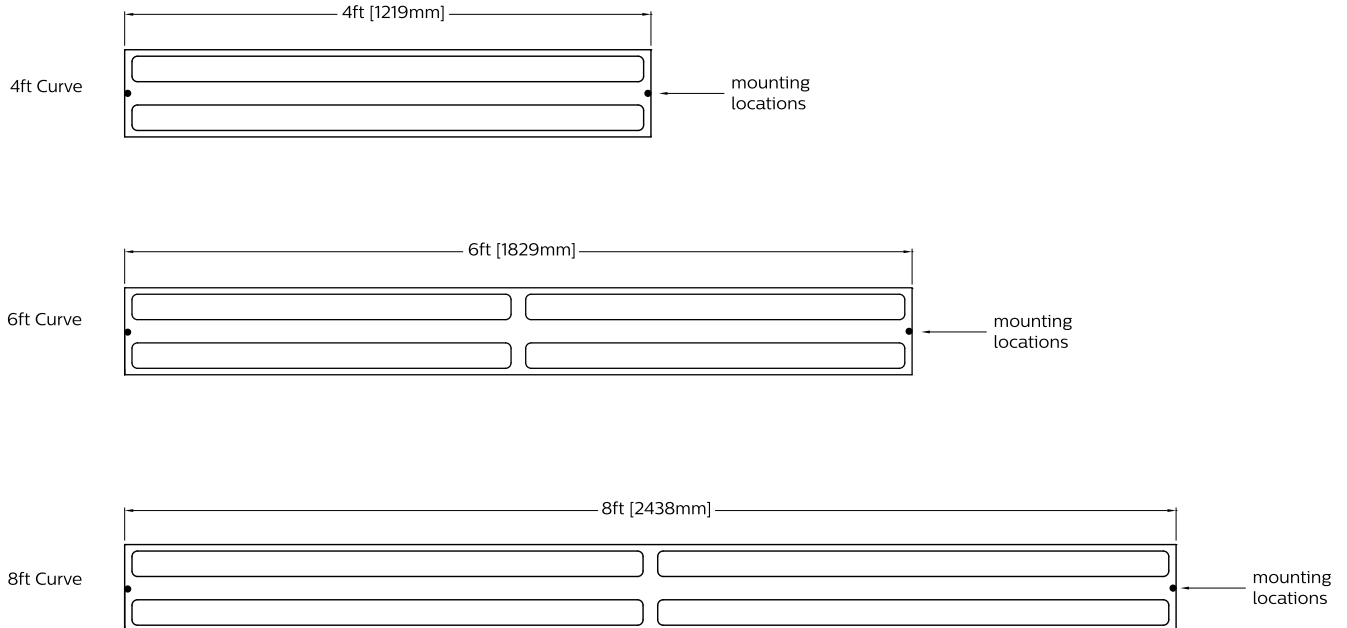
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## Modules - Edge



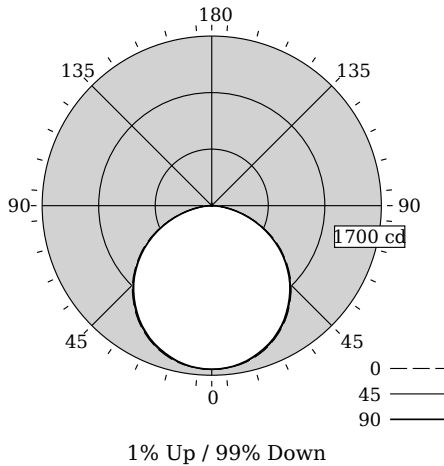
## Modules - Curve



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## Photometry



Total Output	4809 lm
Efficacy	96.6 lm/W
CCT	3344K
CRI	82
R9	5
Distribution	1% Up / 99% Down
Spacing Criteria (0/90/180°)	1.27/1.26/NA

Photometry based on 4ft white luminaire. Black, Titanium and Custom color finishes may reduce delivered lumens. Custom color finishes may shift output color temperature.

Fixture photometry has been conducted by an NVLAP accredited testing laboratory in accordance with IESNA LM-79-08

IES files for this and other photometric options can be downloaded online at [www.lightingproducts.philips.com](http://www.lightingproducts.philips.com)

## Candela Distribution

Vertical Angle	Horizontal Angle				Zonal Lumens
	0	22.5	45	67.5	
0	1640	1640	1640	1640	0
5	1635	1635	1635	1633	155
15	1588	1578	1582	1574	446
25	1481	1471	1477	1473	679
35	1323	1314	1319	1316	822
45	1125	1115	1117	1107	859
55	883	878	876	868	781
65	613	609	603	597	597
75	327	321	319	317	339
85	72	76	80	82	93
90	0	0	0	0	0
95	4	2	0	0	1
105	6	4	4	2	4
115	6	8	6	4	6
125	8	8	8	6	7
135	10	10	10	8	7
145	12	10	10	8	6
155	12	10	10	8	4
165	10	10	10	10	3
175	10	10	8	8	1
180	10	10	10	10	0

## Coefficients of Utilization (%)

RCR	Ceiling: Wall											
	70	50	80	30	10	70	70	30	50	50	10	0
0	119	119	119	119	116	116	116	111	111	111	99	99
1	108	104	99	95	106	101	97	97	94	91	83	83
2	98	90	83	77	96	88	82	84	79	75	69	69
3	90	79	71	64	87	77	70	74	68	62	58	58
4	82	70	61	54	80	69	60	66	59	53	49	49
5	75	62	53	47	73	61	53	59	51	46	42	42
6	70	56	47	41	68	55	47	53	46	40	37	37
7	64	51	42	36	63	50	42	48	41	35	33	33
8	60	46	38	32	58	46	37	44	37	31	29	29
9	56	42	34	29	55	42	34	41	33	28	26	26
10	52	39	31	26	51	39	31	38	31	26	24	24

## Avg. Luminance (cd/m<sup>2</sup>)

Vertical Angle	Horizontal Angle		
	0	45	90
55	7573	7506	7440
65	7131	7018	6950
75	6211	6063	6026
85	4062	4501	4611

Philips Ledalite

## lighting facts®

A Program of the U.S. DOE

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**Light Output (Lumens)** **4809**

**Watts** **49.8**

**Lumens per Watt (Efficacy)** **96.57**

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**Color Accuracy** **82**

Color Rendering Index (CRI)

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**Light Color** **3344 (Bright White)**

Correlated Color Temperature (CCT)

All results are according to IESNA LM-79-2008: *Approved Method for the Electrical and Photometric Testing of Solid-State Lighting*. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit [www.lightingfacts.com](http://www.lightingfacts.com) for the *Label Reference Guide*.

Registration Number: F46Z-3XISZH (7/3/2015)  
Model Number: 24x5LBBAJ  
Type: Luminaire - Linear

## Electrical Specifications

<b>Input Voltage</b>	<b>120V</b>	<b>277V</b>
<b>Input Power</b>	<b>49.8W</b>	<b>49.2W</b>
<b>Input Current</b>	<b>0.42A</b>	<b>0.18A</b>
<b>Power Factor</b>	<b>0.998</b>	<b>0.963</b>
<b>Total Harm. Distortion</b>	<b>6.5%</b>	<b>13.4%</b>
Tested values – contact technical support for rated values. Off-state power zero unless certain controls are specified.		

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