



# Linear

## FloatPlane Suspended LED

CRI >80 4000K, 3200 lm/4ft



Project: \_\_\_\_\_  
 Spec Type: \_\_\_\_\_  
 Catalog No: 24x5LAEAA  
 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	A	E	A	A					
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

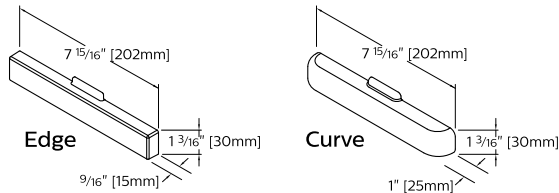
\* Nominal values within a range. Consult ies file for exact color temp, lumens and up/down distribution † Consult website for complete list of standard wiring options

### 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 4-1/2ft 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:**L80 (12k) 70,000 hrs

**Wall mount:**L80 (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>

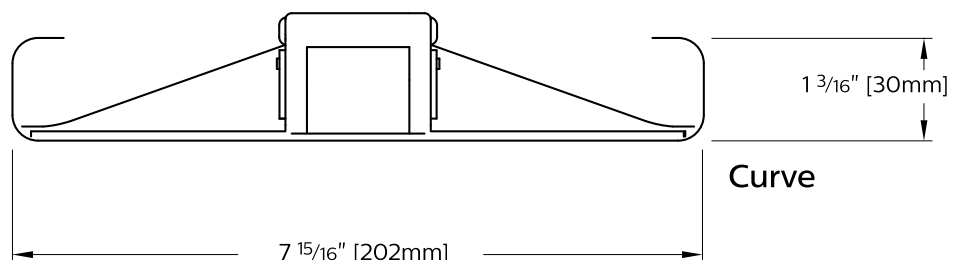
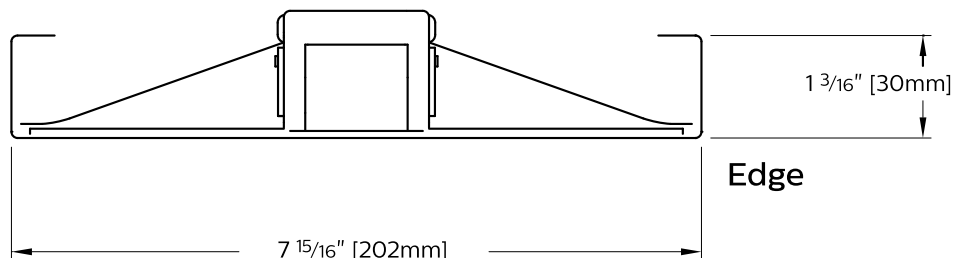
## Environment

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

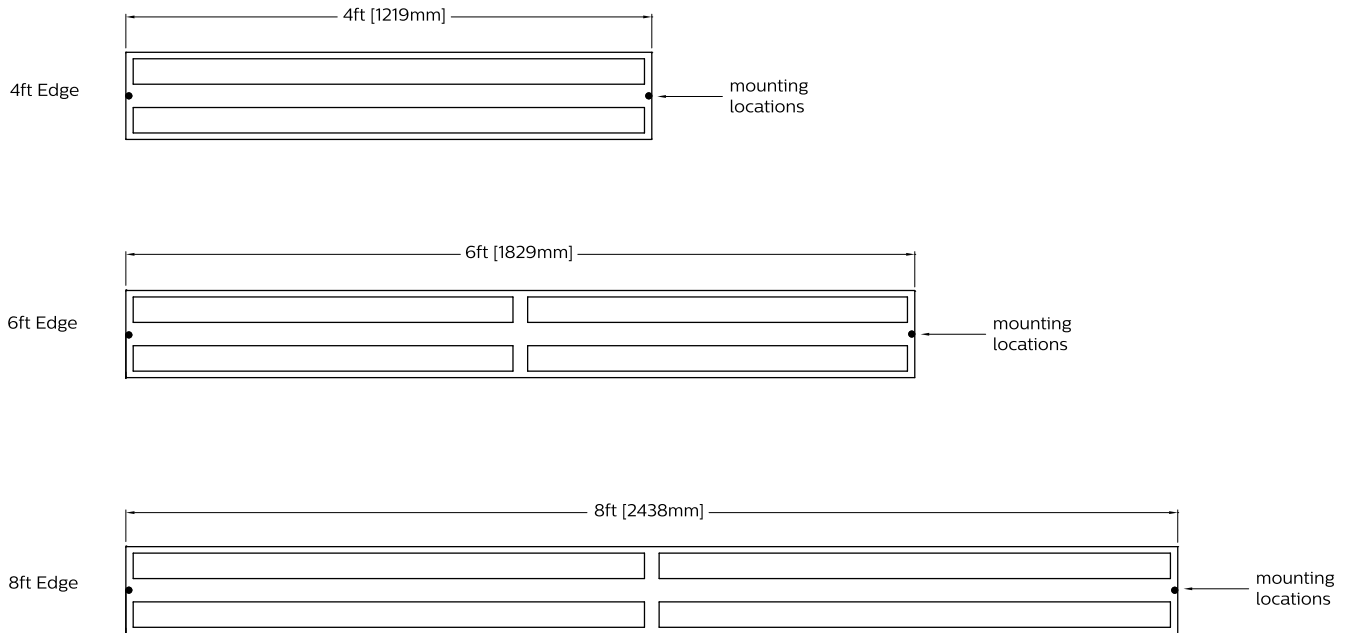
### Cross Section



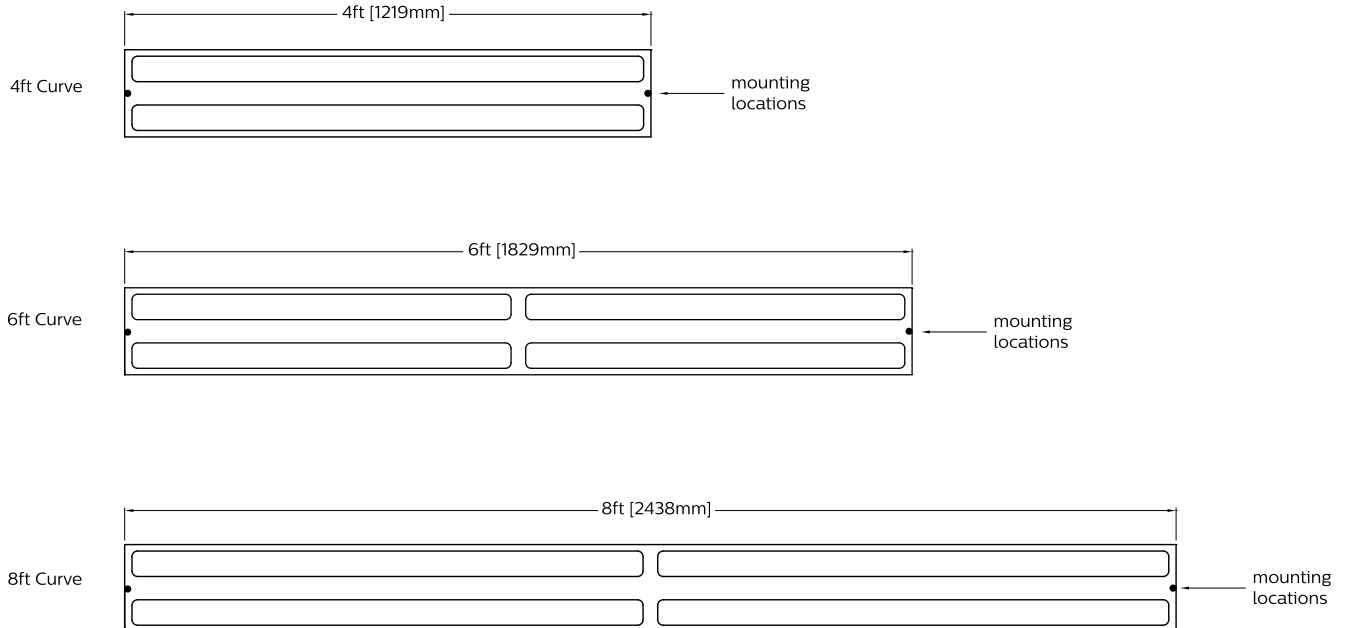
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## Modules - Edge



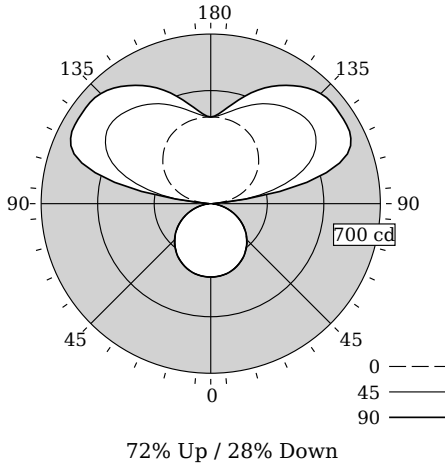
## Modules - Curve



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## Photometry



Total Output	3194 lm
Efficacy	128.8 lm/W
CCT	4028K
CRI	83
R9	11
Distribution	72% Up / 28% Down
Peak/Zenith Ratio	1.82
Peak Output	650 cd @ 128°
Meets RP-1-12 recommendations for VDT-Critical spaces	

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	303	303	303	303	0	
5	302	302	302	302	29	
15	294	292	294	294	83	
25	274	273	275	276	127	
35	246	245	248	247	154	
45	208	209	210	211	162	
55	165	166	168	167	148	
65	115	116	116	115	114	
75	61	62	62	61	65	
85	14	15	16	16	19	
90	0	3	6	7	8	
95	33	54	65	41	33	76
105	110	170	318	446	494	319
115	178	289	466	594	638	432
125	234	354	523	619	649	433
135	278	376	522	613	642	381
145	313	382	495	569	594	298
155	337	378	453	508	527	205
165	352	368	403	432	443	114
175	358	360	365	369	372	35
180	358	358	358	358	358	0

## Coefficients of Utilization (%)

RCR	Ceiling		80				70				50				10			
	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10		
0	102	102	102	102	91	91	91	71	71	71	28	28	28	28	28	28	28	
1	93	89	85	81	83	79	76	62	60	58	23	23	23	23	23	23	23	
2	84	77	71	66	75	69	64	54	51	48	19	19	19	19	19	19	19	
3	77	68	60	55	68	61	55	48	43	40	16	16	16	16	16	16	16	
4	70	60	52	46	62	54	47	42	37	34	14	14	14	14	14	14	14	
5	64	53	45	39	57	48	41	38	33	29	12	12	12	12	12	12	12	
6	59	47	39	34	52	43	36	34	29	25	10	10	10	10	10	10	10	
7	54	42	35	29	48	38	32	30	25	22	9	9	9	9	9	9	9	
8	50	38	31	26	45	35	28	28	23	19	8	8	8	8	8	8	8	
9	47	35	28	23	42	31	25	25	20	17	7	7	7	7	7	7	7	
10	43	32	25	20	39	29	23	23	18	15	7	7	7	7	7	7	7	

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

Vertical Angle	Horizontal Angle		
	0	45	90
55	1411	1437	1428
65	1336	1347	1336
75	1158	1177	1158
85	802	917	917

Philips Ledalite

**Light Output (Lumens)** **3194**

**Watts** **24.8**

**Lumens per Watt (Efficacy)** **128.79**

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**Color Accuracy** **83**

Color Rendering Index (CRI)

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**Light Color** **4028 (Bright White)**

Correlated Color Temperature (CCT)

2700K    3000K    4500K    6500K

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-LC87WB (7/3/2015)  
Model Number: 24x5LAEAA  
Type: Luminaire - Linear

## Electrical Specifications

<b>Input Voltage</b>	<b>120V</b>	<b>277V</b>
<b>Input Power</b>	<b>24.8W</b>	<b>24.6W</b>
<b>Input Current</b>	<b>0.21A</b>	<b>0.09A</b>
<b>Power Factor</b>	<b>0.998</b>	<b>0.959</b>
<b>Total Harm. Distortion</b>	<b>7.2%</b>	<b>14%</b>
Tested values – contact technical support for rated values. Off-state power zero unless certain controls are specified.		

