



Linear

FloatPlane Suspended LED

CRI >80 3500K, 3200 lm/4ft



Project: _____
 Spec Type: _____
 Catalog No: 24x5LBEEA _____
 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	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

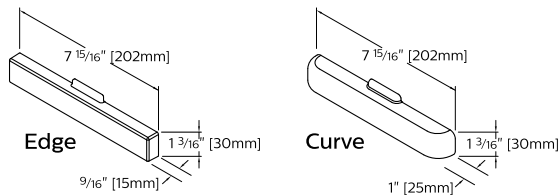
* Nominal values within a range. Consult ies file for exact color temp, lumens and up/down distribution † Consult website for complete list of standard wiring options

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>

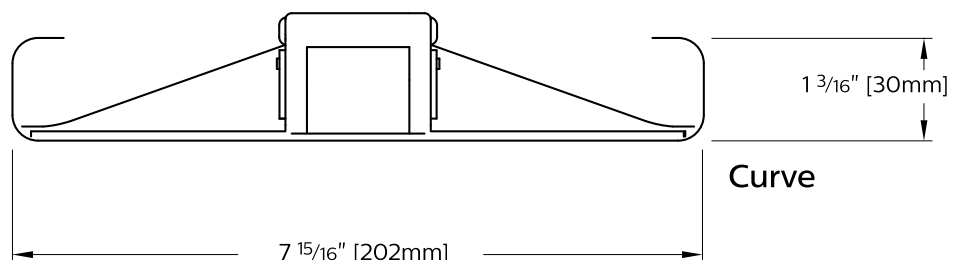
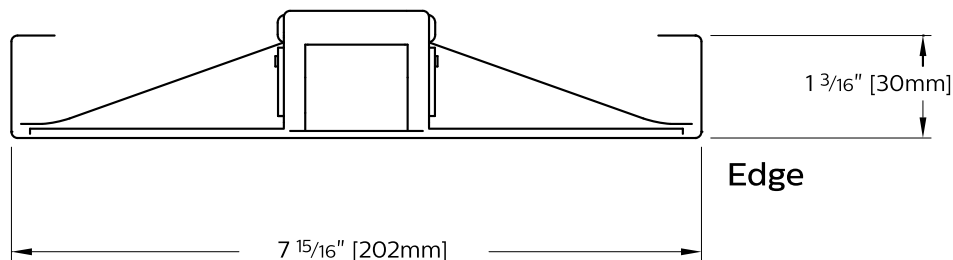
Environment

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

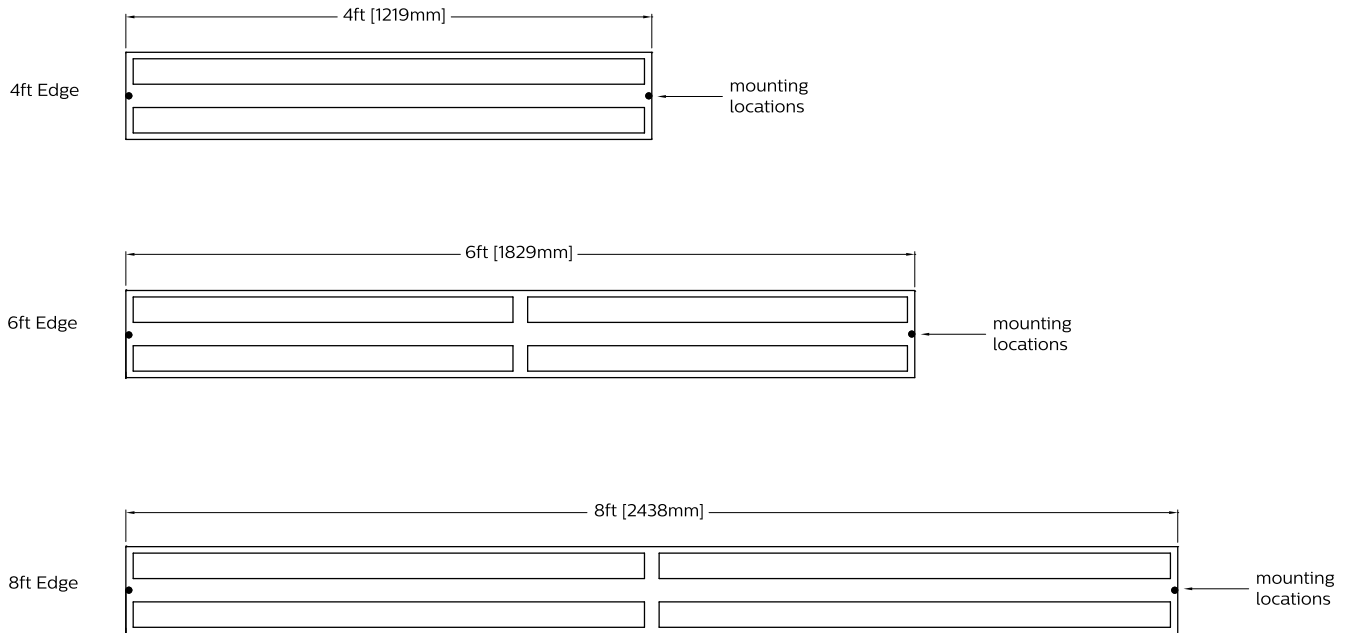
Cross Section



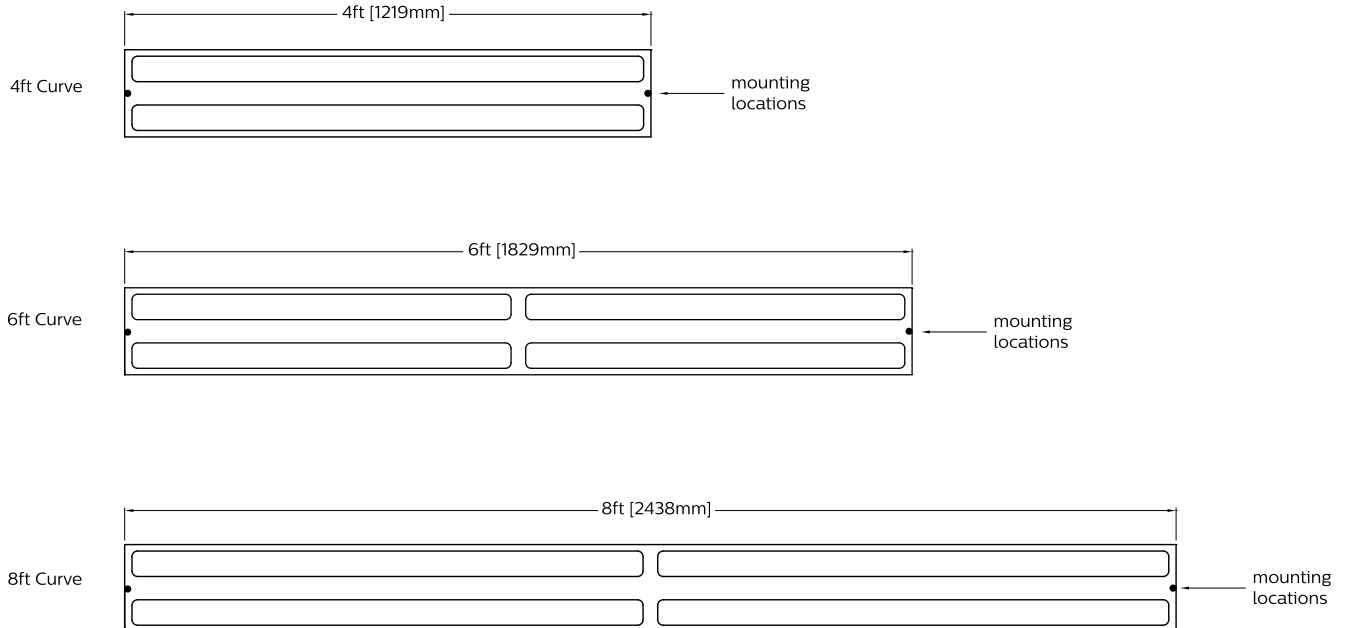
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Modules - Edge



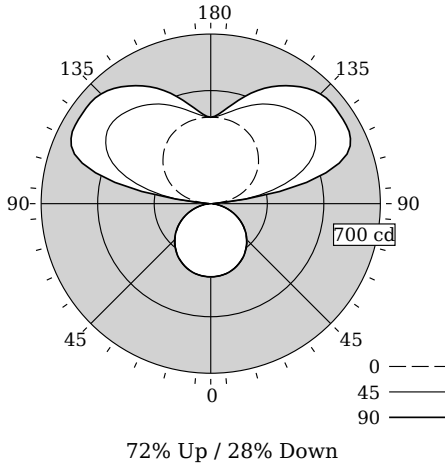
Modules - Curve



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Photometry



Total Output	3184 lm
Efficacy	127.9 lm/W
CCT	3427K
CRI	82
R9	6
Distribution	72% Up / 28% Down
Peak/Zenith Ratio	1.82
Peak Output	648 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

Candela Distribution

Vertical Angle	Horizontal Angle				Zonal Lumens
	0	22.5	45	67.5	
0	302	302	302	302	0
5	301	301	301	301	29
15	293	291	293	293	83
25	274	272	275	276	126
35	245	244	247	246	154
45	208	209	210	211	162
55	164	165	167	166	148
65	114	115	115	114	114
75	61	62	62	61	65
85	14	15	16	16	19
90	0	3	6	7	8
95	32	54	65	41	32
105	109	169	317	445	492
115	177	288	465	593	636
125	233	353	522	617	647
135	278	375	521	611	640
145	312	381	493	567	593
155	336	377	452	507	526
165	350	367	402	431	442
175	357	359	364	368	371
180	357	357	357	357	357

Coefficients of Utilization (%)

RCR	Ceiling: Wall:		80				70				50				0			
	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	0	
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/m²)

Vertical Angle	Horizontal Angle		
	0	45	90
55	1407	1433	1424
65	1332	1344	1332
75	1155	1174	1155
85	800	914	914

Philips Ledalite

Light Output (Lumens) 3184

Watts 24.9

Lumens per Watt (Efficacy) 127.87

Color Accuracy 82

Color Rendering Index (CRI)

Light Color 3427 (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 for the Label Reference Guide.

Registration Number: F46Z-5D46PW (7/3/2015)
Model Number: 24x5LBEAA
Type: Luminaire - Linear

Electrical Specifications

Input Voltage	120V	277V
Input Power	24.9W	24.7W
Input Current	0.21A	0.09A
Power Factor	0.998	0.959
Total Harm. Distortion	7.2%	14%
Tested values – contact technical support for rated values. Off-state power zero unless certain controls are specified.		

