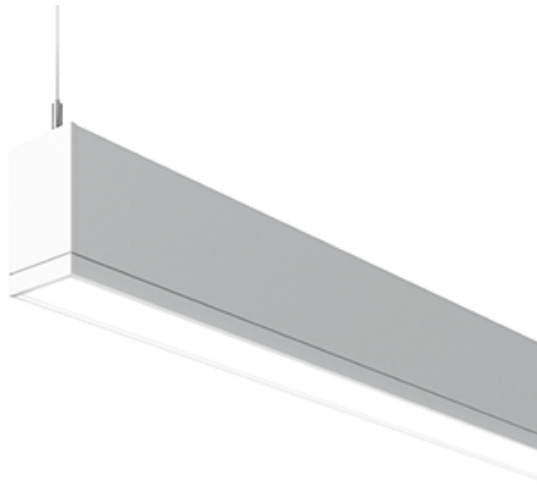


Linear

TruGroove Suspended

2300 lm/4ft, Direct
3000/3500/4000K



Project: _____

Spec Type: _____

Catalog No: 2901LxGQN _____

Qty _____

Line Notes: _____

TruGroove Recessed is driving performance beyond the edge. Innovative optics deliver exceptional uniformity and wide row spacing from a 3" aperture continuous line-of light. An extended family and refined design are perfect for lighting any professional space.

Ordering guide

Product Type	Source	Color Temp *	Lumens *	Lower Optics	Upper Optics	Run Length	Wiring †	Voltage	Driver	Finish
2901	L		G	Q	N					
TruGroove Suspended Direct	L LED	A 4000K B 3500K C 3000K	E 3200 lm/4ft G 2300 lm/4ft K 1500 lm/4ft	Q Symmetric MesoOptics W Asymmetric MesoOptics	N Solid Housing	04 4' 06 6' 08 8' A4 2'x2' Total run length (2' increments)	7 1 cct Dimming M 1 cct Dimming + EM Wiring N 1 cct Dimming + EM Batt. Pack	1 120V 2 277V 3 347V	E Philips Advance 0-10V (1% dim) S Philips Advance SR (5% dim)	W Standard White T Titanium Silver B Black C Custom

* Nominal values within a range. Consult photometry data for color temp, lumens & distribution of chosen configuration.

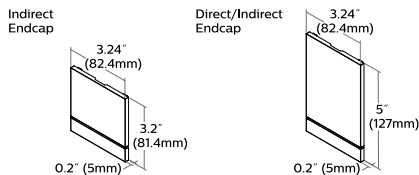
† Not all wiring types are available with all configurations. Consult Philips Ledalite for a complete list of available options.

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 - Flat Grooved



Integrated Controls Please indicate with check mark.

☐ Response Daylight Single Zone (DS)

☐ SpaceWise DT Occupancy & Daylight Sensor (SZ)

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Optical System

Upper hemisphere: White light emitted from a linear array of upward-facing LEDs is shaped into a homogeneous, wide-throw batwing distribution using either a freeform elliptical lens or an engineered light guide panel.

Lower hemisphere: White light emitted from a linear array of downward-facing LEDs is laterally redirected using either a biconvex lens or optical microstructures embedded in a layer of MesoOptics DX film. An extruded acrylic lens and MesoOptics film assembly then generates an optimal batwing distribution and a uniform continuum of light.

Endcaps

Diecast flat aluminum endcaps with integral groove to match housing.

Finish

High quality powder coated, available in matte white, black or titanium silver. Other custom colors available on request. White sensors only.

Housing

Precision aluminum extrusion, post painted.

Weight

Maximum: Suspended & Surface 3.9lb/ft, Wall 4.1lb/ft & 2'x2' Corner unit 21lb

Electrical

Factory pre-wired to section ends with quick-wire connectors.

Standard Drivers

Philips Advance Xitanium 0-10V, 1-100%.

Philips Advance Xitanium SR, 5-100% (for SpaceWise DT).

Class 2 rated output. Consult Philips Ledalite for other available drivers.

Standard Battery Pack

Philips Bodine, 90 min, 10W, Class 2 rated output,

Emergency lumen output = 10W x luminaire efficacy x 1.1.

Typical output: 1100lm.

Lumen Maintenance

At an ambient temperature of 25°C, the LED lumen maintenance expectation according to IES TM-21-11 is:

L80 (12k) 60,000 hrs (**Reported** methodology)

L80 (6k) 110,000 hrs (**Projected** methodology).

Source Color

LEDs rated for color rendering CRI >80, R9 >0 and fixture to fixture color accuracy within 2 SDCM.

Controls

Suspended version available with the following integrated controls:

Response daylight sensor (for single zone).

SpaceWise DT occupancy & daylight sensor w/ advanced grouping & dwell time.

SpaceWise DT commissioning via Android phone and Philips Field App. Compatible dimming wireless wall switches are available. For more information, please refer to www.philips.com/spacewise

Mounting

Suspended: Variable sling mount allows +/- 5" of horizontal adjustment from joint or end. Aircraft cable and tamper-resistant gripper provide unlimited vertical adjustment and are independently tested to stringent safety standards.

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, spaced up to 4½' on center and within 12" of an end or joint.

Surface: Fixture is mounted flush to surface using hidden brackets that attach to existing structure, variable between 0.6"-1.7" from end or joint.

Joints

Self-aligning joining system with hands-free pre-joining wire access.

Approvals

Certified to UL, CSA and IES standards. Certain symmetric indirect/direct and indirect versions are DesignLights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers (www.designlights.org/QPL).

Warranty

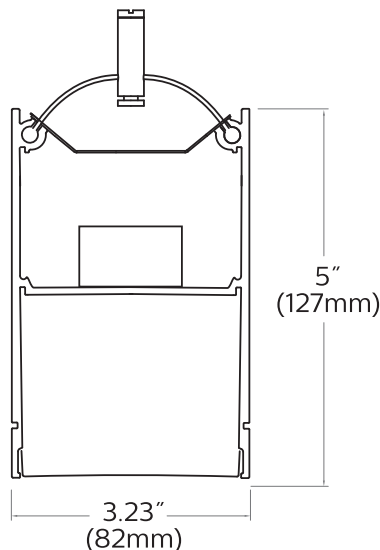
Philips indoor professional luminaires 5 year LED warranty: <http://www.philips.com/warranties>

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.

Dimensions - Cross Section

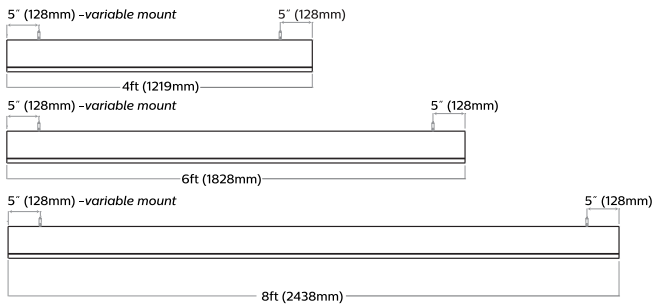


TruGroove Suspended

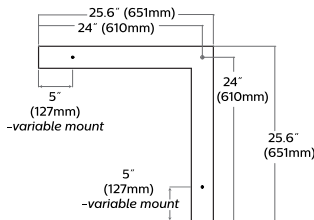
2300 lm/4ft, Direct
3000/3500/4000K

Dimensions - Modules

Suspended Linear Modules Without Endcaps - Side View



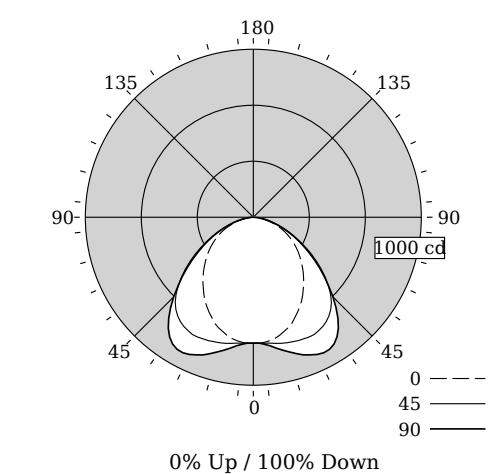
Suspended 2'x2' Corners Without Endcaps - Top View



TruGroove Suspended

2300 lm/4ft, Direct
3000/3500/4000K

Photometry - 3500K



Candela Distribution

Vertical Angle	0	22.5	45	67.5	90	Zonal Lumens
0	749	749	749	749	749	0
5	748	748	753	759	759	72
15	704	722	774	817	830	218
25	623	672	787	874	901	357
35	518	594	757	854	869	452
45	412	491	651	686	670	455
55	310	367	462	462	446	373
65	208	231	270	271	262	250
75	103	108	123	124	120	125
85	21	21	26	26	26	30
90	0	0	0	0	0	0
95	0	0	0	0	0	0
105	0	0	0	0	0	0
115	0	0	0	0	0	0
125	0	0	0	0	0	0
135	0	0	0	0	0	0
145	0	0	0	0	0	0
155	0	0	0	0	0	0
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	0

Values per 4ft unit

Fixture photometry has been conducted in accordance with IESNA LM-79-08

IES files for this and other photometric options can be downloaded online at www.lightingproducts.philips.com

Coefficients of Utilization (%)

RCR	Ceiling Wall: 70	80	50	30	10	70	50	30	50	30	10	0
0	119	119	119	119	116	116	116	111	111	111	100	0
1	109	105	101	97	107	103	99	98	95	92	85	0
2	100	92	85	80	97	90	84	86	81	77	71	0
3	91	81	73	67	89	79	72	76	70	65	60	0
4	83	72	63	57	81	70	62	68	61	55	52	0
5	77	64	55	49	75	63	55	61	54	48	45	0
6	71	58	49	43	69	57	48	55	48	42	39	0
7	66	52	44	38	64	51	43	50	42	37	35	0
8	61	48	39	33	60	47	39	46	38	33	31	0
9	57	44	35	30	56	43	35	42	35	30	28	0
10	53	40	32	27	52	40	32	39	32	27	25	0

Avg. Luminance (cd/m2)

Vertical Angle	0	45	90
55	5809	8654	8351
65	5297	6858	6653
75	4291	5096	4962
85	2589	3186	3186

Distribution

Hemisphere	0% Up / 100% Down
Glare Control	Meets RP-1-12 recommendations for VDT-Normal spaces
Spacing Along (0 °)	1.15
Spacing Across (90 °)	1.63

LED

lighting facts®

A Program of the U.S. DOE

Philips Ledalite

Light Output (Lumens)

2332

Watts

23.8

Lumens per Watt (Efficacy)

97.98

Color Accuracy

Color Rendering Index (CRI)

82

Light Color

Correlated Color Temperature (CCT)

3424 (Bright White)

Warm White

Bright White

Daylight

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-NRR5AT (1/26/2015)

Model Number: 29x1LBQQN

Type: Luminaire - Linear

TruGroove Suspended

2300 lm/4ft, Direct
3000/3500/4000K

Optical Performance

Nominal CCT:	3000K	3500K	4000K
Flux (lm)	2254	2332	2340
Efficacy (lm/W)	94.7	98.0	97.1
Power (W)	23.8	23.8	24.1
CCT (K)	3107	3424	4065
CRI	81	82	83
R9	3	6	13
x	0.4321	0.4128	0.3787
y	0.4071	0.4010	0.3791
Duv	0.0020	0.0030	0.0020

Electrical Performance - 3500K

Input Voltage	120V	277V	347V
Input Power	23.8W	23.6W	20.7W
Input Current	0.20A	0.09A	0.06A
Power Factor	0.996	0.961	0.970
Total Harm. Distortion	7.3%	13.8%	11.5%
Tested values . contact technical support for rated values. Off-state power zero unless certain controls are specified.			
With SpaceWise DT, standby power <0.5W (120V) or <0.8W (277V).			

