PHILIPS
LEDALITE

Recessed

SilkSpace

2'x2', 3000 lm
3500K

Philips Ledalite SilkSpace LED recessed combines LED Light Guide technology and Ledalite's revolutionary MesoOptics technology to deliver discrete, comfortable lighting with great performance and ultra low-glare.
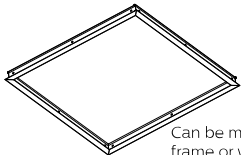
Ordering guide

Product Type	Version	Configuration	Light Source *	CRI/CCT	Lumens *	Housing	Wiring †	Voltage	Driver
4222	D1	ST	L	8B	E				
SilkSpace 2'x2' LED	D1 Standard T Grid	ST Standalone	L LED	8C CRI 80 3000K 8B CRI 80 3500K 8A CRI 80 4000K	K 1700 lm E 3000 lm D 4000 lm	S Standard C Chicago Plenum	7 1 cct Dimming N 1 cct Dimming + EM Batt. Pack	1 120V 2 277V 3 347V	E Philips Advance 0-10V S Philips Advance SR

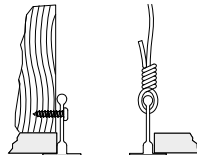* Nominal values within a range. Consult photometry data for exact color temp, lumens & distribution.
† Not all wiring types are available with all configurations. Consult Philips Ledalite for a complete list of available options.

Upgrades & Accessories Please indicate with check mark.

☐ Drywall Kit Trim Mount

☐ Flex Whip (6' length)

Can be mounted to wood frame or with hanger wire

Integrated Controls Please indicate with check mark.

☐ Response Daylight Sensor Single Zone (DS)

☐ Philips Actilume Occupancy Sensor (DO) (includes field commissionable daylight sensor)

☐ SpaceWise DT Occupancy & Daylight Sensor (SZ)

DLC QPL LISTED

FIXTURE • LED • DRIVER 5 YEARS SYSTEM WARRANTY

ACTILUME

RESPONSE

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Housing

Sides and center spine: precision aluminum extrusion; end caps, back housing and driver cover: die-formed, 20 gauge cold-rolled steel, pre and post painted. Available in white. Multiple wire entrances are available (top or side) to allow continuous row mounting of fixtures.

Electrical

Factory pre-wired with driver safety disconnects. Dimming enabled as standard: 0-10V (1-100%). Philips Advance Xitanium Sensor Ready (SR), 5-100% (for SpaceWise). Output is Class 2 rated. Consult factory for a list of other options. LED boards and drivers are easily field replaceable, if required.

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℃, the LED lumen maintenance expectation is L80(12K)>72,000h according to IES TM-21-11 Addendum A Reported methodology.

Controls

Available with the following integrated controls:
Response daylight sensor (for single zone).
Philips Actilume occupancy sensor (includes field commissionable daylight).
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

Weight

Maximum 28lbs (2x4); 21lbs (1x4); 15lbs (2x2).

Mounting

Fixtures are factory pre-wired and tested for all circuits and emergency battery packs. Compatible with 15/16" lay-in acoustical ceilings using exposed grid suspension (NEMA type G). For 9/16" slot T-grid ceilings, fixture will sit 5/16" above bottom of Tee. Optional armored cable flex whips are supplied in 6' lengths.

Warranty

Five-year luminaire limited warranty including LED boards and driver.

USA: http://www.usa.lighting.philips.com/support/support/warranty

Canada: http://www.lighting.philips.ca/support/support/warranty

Certifications

SilkSpace luminaires are DesignLights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers (http://www.designlights.org/QPL)

Environment

Rated for dry & damp locations in operating in ambient temperatures of 25℃.

General Notes

Many luminaire components, such as reflectors, refractors, lenses, sockets, lamp holders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility. Damage caused by sulfur, chlorine, petroleum based solution or other contaminants are not covered under warranty.

Optical System

The optical system is comprised of arrays of LEDs edge-lighting a low profile light guide panel. The microstructured surface of the light guide panel optimizes the light extraction creating a homogenously luminous appearance. Light is then controlled by MesoOptics film suppressing the high-angle light creating an ultra low-glare bat-wing distribution.
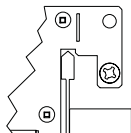
Approvals

Certified to UL, CSA & IES Standards. City of Chicago Approved CCEA (housing option C).

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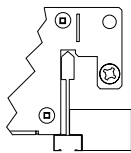
Options and Details

Mounting

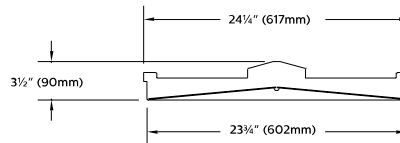Integrates with most common T-Grid ceiling types

Flat T-Grid

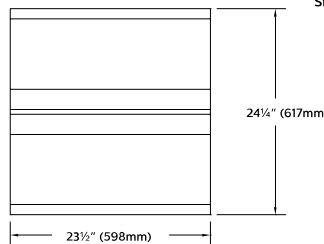Works with 9/16" & 15/16" flat T-Grid ceilings

Slot T-Grid

Can also be used with slot T-Grid ceilings. For 9/16" slot T-grid ceilings, fixture will sit 5/16" above bottom of T-Bar.
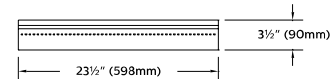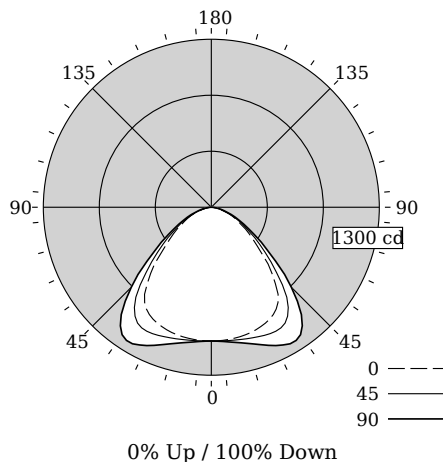
Cross Section

24¼" (617mm)

3½" (90mm)

23¾" (602mm)

Lens View

24¼" (617mm)

23½" (598mm)

Side View

3½" (90mm)

23½" (598mm)

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Photometry

1300 cd

0% Up / 100% Down

0 – – –
45 ——
90 ——

Total Output	2931 lm
Efficacy	105.4 lm/W
CCT	3380K
CRI	82
Distribution	0% Up / 100% Down
Spacing Criteria (0/90°)	1.37/1.65
UGR	17.7
Meets RP-1-12 recommendations for VDT-Normal spaces	

UGR values measured at 4Hx8H, 0.25H

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

Candela Distribution

Vertical Angle	0	22.5	45	67.5	90	Zonal Lumens
0	1052	1052	1052	1052	1052	0
5	1052	1052	1053	1055	1057	101
15	1041	1048	1066	1086	1094	303
25	1011	1033	1090	1151	1174	505
35	933	972	1073	1181	1217	665
45	669	704	797	913	956	616
55	362	376	416	467	507	387
65	205	210	223	239	247	225
75	86	88	96	104	108	104
85	17	18	21	24	26	24
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

Coefficients of Utilization (%)

RCR	Ceiling: 80 Wall: 70	50	30	10	70 Wall: 70	50	30	50 Wall: 50	30	10	0 Wall: 0
0	119	119	119	119	116	116	116	111	111	111	100
1	110	106	102	99	108	104	100	100	97	94	87
2	101	94	88	83	99	92	87	89	84	80	74
3	93	84	76	70	91	82	75	79	73	69	64
4	86	75	67	61	84	73	66	71	64	59	56
5	79	67	59	53	77	66	58	64	57	52	49
6	73	61	52	46	71	60	52	58	51	46	43
7	68	55	47	41	66	54	47	53	46	41	38
8	63	50	42	37	62	50	42	48	41	36	34
9	59	46	38	33	58	46	38	45	38	33	31
10	55	43	35	30	54	42	35	41	34	30	28

Avg. Luminance (cd/m2)

Vertical Angle	Horizontal Angle 0	45	90
55	1890	2173	2651
65	1455	1583	1749
75	991	1108	1255
85	571	705	887

Electrical Specifications

Input Voltage	120V	277V
Input Power	27.8W	27.7W
Input Current	0.23A	0.11A
Power Factor	0.994	0.950
Total Harm. Distortion	8.3%	12.2%

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).

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