



Recessed

SilkSpace

2'x4', 5200 lm
3000/3500/4000K



Project: _____
 Spec Type: _____
 Catalog No: 4224DxxxL8xC _____
 Qty _____
 Line Notes: _____

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
4224	D1		L		C				
SilkSpace 2'x4'	D1 Standard T Grid	ST Standalone CR Continuous Row	L LED	8C CRI 80 3000K 8B CRI 80 3500K 8A CRI 80 4000K	D 4000 lm C 5200 lm A 6800 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 (1% dim) S Philips Advance SR (5% dim)

* 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.

Upgrades & Accessories Please indicate with check mark.

- Drywall Kit Trim Mount
- Flex Whip (6' length)

Integrated Controls Please indicate with check mark.

- Response Daylight Single Zone (DS)
- SpaceWise DT Occupancy & Daylight Sensor (SZ)



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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 homogeneously luminous appearance. Light is then controlled by MesoOptics film suppressing the high-angle light creating an ultra low-glare bat-wing distribution.

Finish

Housing and Frame painted, high quality, powder coated matte white only.

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.

Weight

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

Electrical

Factory pre-wired with driver safety disconnect.

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 drywall kit trim mount can be fastened to a wood frame or with hangar wire. Continuous row mounting not available with drywall kit trim mounts.

Standard Driver

Philips Advance Xitanium 0-10V, 1-100%. Philips Advance Xitanium Sensor Ready (SR), 5-100% (for SpaceWise). 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: 1200lm.

Lumen Maintenance

LEDs have been tested by the manufacturer in accordance with IESNA LM-80-08. At an ambient temperature of 25°C, the LED lumen maintenance expectation according to IES TM-21-11:

L90 (10k) >60,000 hrs (**Reported** methodology)

L80 (10k) 125,000 hrs (**Projected** methodology)

Source Color

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

Controls

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

Wiring

Optional flex whips are supplied in 6' lengths.

Approvals

Certified to UL, CSA, and IES standards. City of Chicago Approved CCEA (housing option C). Certain versions without battery packs are DesignLights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers (www.designlights.org/QPL).

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>

Environment

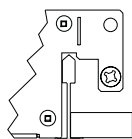
Rated for dry & damp locations in operating ambient temperatures of 0-25°C (32-77°F). Many luminaire components, such as reflectors, refractors, lenses, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based 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.

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

Options and Details

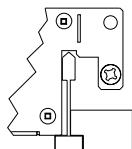
Mounting

Integrates with most common T-Grid ceiling types



Flat T-Grid

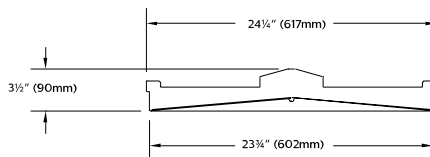
Works with 9/16" & 15/16" flat T-Grid ceilings



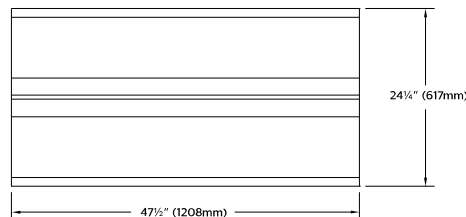
Slot T-Grid

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.

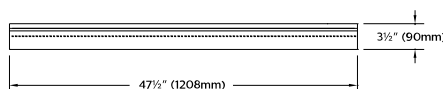
Cross Section



Lens View



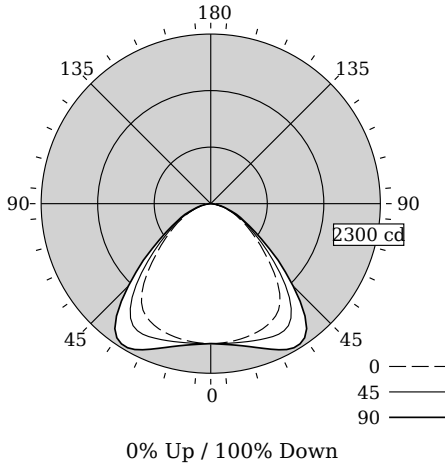
Side View



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Photometry - 3500K



Candela Distribution

Vertical Angle	Horizontal Angle					Zonal Lumens
	0	22.5	45	67.5	90	
0	1900	1900	1900	1900	1900	0
5	1899	1896	1903	1908	1914	182
15	1883	1891	1931	1972	1993	549
25	1840	1875	1988	2109	2163	923
35	1712	1774	1973	2190	2279	1227
45	1260	1308	1470	1657	1735	1136
55	734	754	818	892	927	747
65	388	393	412	432	441	419
75	163	166	176	185	192	191
85	31	33	38	42	45	45
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

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

Coefficients of Utilization (%)

RCR	Ceiling												
	70	50	30	10	70	50	30	10	70	50	30	10	70
0	119	119	119	119	116	116	116	111	111	111	100	100	100
1	110	106	102	99	108	104	100	100	97	94	87	87	87
2	101	94	88	83	99	92	87	89	84	80	74	74	74
3	93	83	76	70	91	82	75	79	73	68	64	64	64
4	86	75	66	60	83	73	66	71	64	59	55	55	55
5	79	67	59	52	77	66	58	64	57	52	48	48	48
6	73	61	52	46	71	60	52	58	51	45	43	43	43
7	68	55	47	41	66	54	46	53	46	40	38	38	38
8	63	50	42	36	62	49	42	48	41	36	34	34	34
9	59	46	38	33	58	45	38	44	37	32	30	30	30
10	55	42	35	30	54	42	35	41	34	29	27	27	27

Avg. Luminance (cd/m2)

Vertical Angle	Horizontal Angle		
	0	45	90
55	1868	2082	2359
65	1340	1424	1522
75	920	992	1081
85	519	630	755

Distribution Summary

Hemisphere	0% Up / 100% Down
Spacing Along (0 °)	1.39
Spacing Across (90 °)	1.68
UGR	17.3

Philips Ledalite

Lighting facts
A Program of the U.S. DOE

Light Output (Lumens) **5419**
Watts **46.6**
Lumens per Watt (Efficacy) **116.29**

Color Accuracy **81**
Color Rendering Index (CRI)

Light Color **3371 (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-1PQS71 (7/11/2016)
 Model Number: 4224xxxLBBC
 Type: Luminaire - Troffer/Grid Ceiling

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Optical Performance

Nominal CCT:	4000K	3500K	3000K
Flux (lm)	5575	5419	5267
Efficacy (lm/W)	119.9	116.3	112.5
Power (W)	46.5	46.6	46.8
CCT (K)	3787	3371	2976
CRI	82	82	81
R9	0	4	-2
x	0.3933	0.4152	0.4421
y	0.3920	0.4003	0.4118
Duv	0.0035	0.0020	0.0022

Electrical Performance - 3500K

Input Voltage	120V	277V	347V
Input Power	46.6W	46.1W	41.8W
Input Current	0.39A	0.17A	0.12A
Power Factor	0.995	0.954	0.976
Total Harm. Distortion	6.1%	10.5%	9.0%

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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www.philips.com/luminaires

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