PHILIPS
LEDALITE

Recessed

SilkSpace

2'x2', 1700 lm
3000/3500/4000K

LED

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		K				
SilkSpace 2'x2'	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 (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)

mesoOptics RESPONSE

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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 homogenously 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. Continous 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℃, the LED lumen maintenance expectation according to IES TM-21-11:
L_{90} (10k) >60,000 hrs (**Reported** methodology)
L_{80} (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

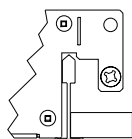Canada: http://www.lighting.philips.ca/support/support/warranty

Environment

Rated for dry & damp locations in operating ambient temperatures of 0-25℃ (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.
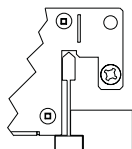

Options and Details

Mounting

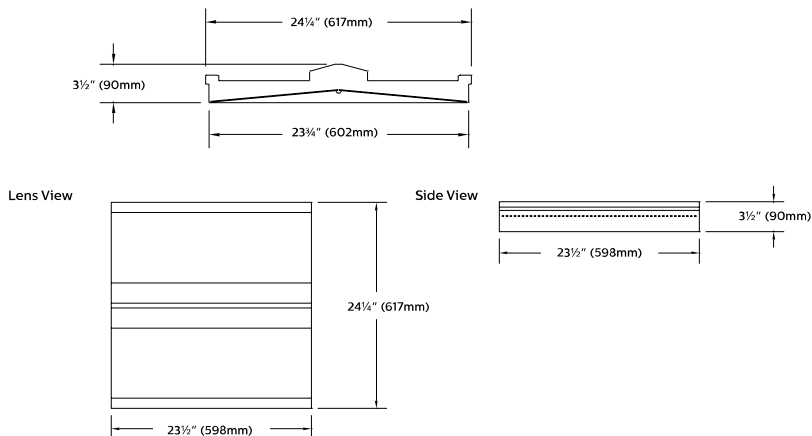Integrates with most common T-Grid ceiling types

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

Flat 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.
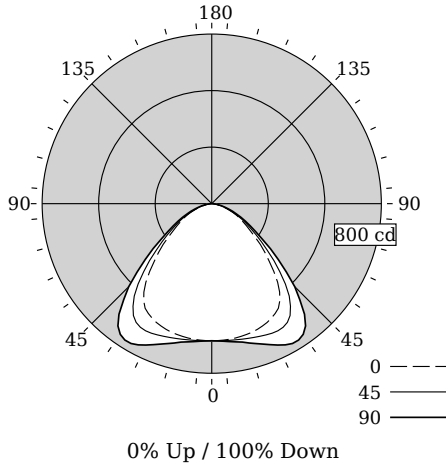
Slot T-Grid

Cross Section

24¼" (617mm)
3½" (90mm)
23¾" (602mm)

Lens View

23½" (598mm)
24¼" (617mm)

Side View

3½" (90mm)
23½" (598mm)

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Photometry – 3500K

0% Up / 100% Down

Candela Distribution

Vertical Angle	Horizontal Angle					Zonal Lumens
	0	22.5	45	67.5	90	
0	658	658	658	658	658	0
5	658	658	658	660	661	63
15	651	655	666	679	684	189
25	632	646	681	720	734	316
35	583	607	671	739	762	414
45	391	411	465	552	581	369
55	226	235	259	291	305	238
65	128	131	139	150	154	140
75	53	55	60	65	67	65
85	11	11	13	15	16	15
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:	80				70				50			0
	Wall:	70	50	30	10	70	50	30	50	30	10	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	75
3		93	84	76	70	91	82	75	79	73	69	64
4		86	75	67	61	84	74	66	71	65	59	56
5		79	67	59	53	77	66	58	64	57	52	49
6		73	61	52	46	72	60	52	58	51	46	43
7		68	55	47	41	66	55	47	53	46	41	38
8		63	51	42	37	62	50	42	49	42	37	34
9		59	46	39	33	58	46	38	45	38	33	31
10		56	43	35	30	54	42	35	41	35	30	28

Avg. Luminance (cd/m2)

Vertical Angle	Horizontal Angle		
	0	45	90
55	1183	1354	1594
65	910	987	1092
75	618	692	780
85	361	443	554

Distribution Summary

Hemisphere	0% Up / 100% Down
Glare Control	Meets RP-1-12 recommendations for VDT-Normal spaces
Spacing Along (0 °)	1.37
Spacing Across (90 °)	1.65
UGR	16.0

Philips Ledalite

LED lighting facts®
A Program of the U.S. DOE

Light Output (Lumens)	**1810**
Watts	**16.7**
Lumens per Watt (Efficacy)	**108.38**

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

Light Color
Correlated Color Temperature (CCT) **3380 (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-OAKTVP (7/11/2016)
Model Number: 4222xxxxL8BK
Type: Luminaire - Troffer/Grid Ceiling

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Optical Performance

Nominal CCT:	4000K	3500K	3000K
Flux (lm)	1832	1810	1768
Efficacy (lm/W)	110.4	108.4	105.9
Power (W)	16.6	16.7	16.7
CCT (K)	3809	3380	2968
CRI	82	82	81
R9	1	3	–2
x	0.3921	0.4149	0.4425
y	0.3913	0.4007	0.4114
Duv	0.0035	0.0023	0.0021

Electrical Performance – 3500K

Input Voltage	120V	277V	347V
Input Power	16.7W	16.8W	15.5W
Input Current	0.14A	0.07A	0.05A
Power Factor	0.990	0.922	0.951
Total Harm. Distortion	10.1%	15.3%	14.2%

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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