PHILIPS
LEDALITE

Recessed

SilkSpace

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

Project:
Spec Type:
Catalog No: 4222DxxxL8xD
Qty
Line Notes:

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		D				
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)

DLC QPL LISTED

FIXTURE + LED + DRIVER 5 YEARS

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

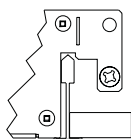Canada: http://www.lighting.philips.ca/support/support/warranty

Environment

Rated for dry & damp locations in operating ambient temperatures of 0-25℃ (32-77℉). 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.
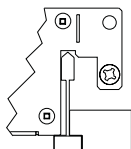

Options and Details

Mounting

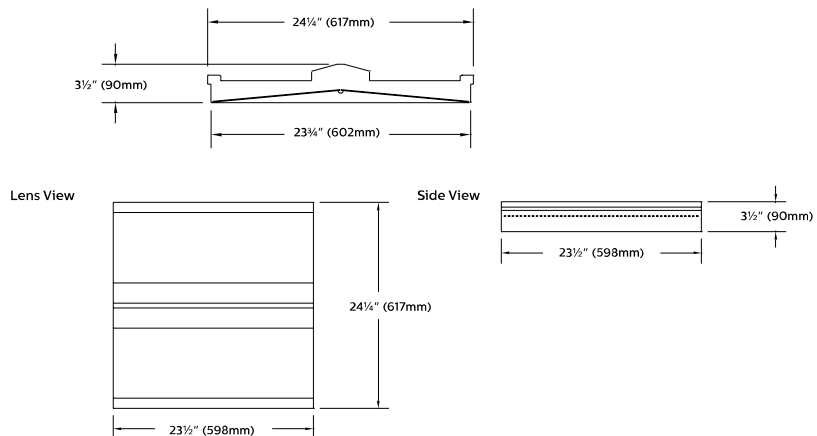Integrates with most common T-Grid ceiling types

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.
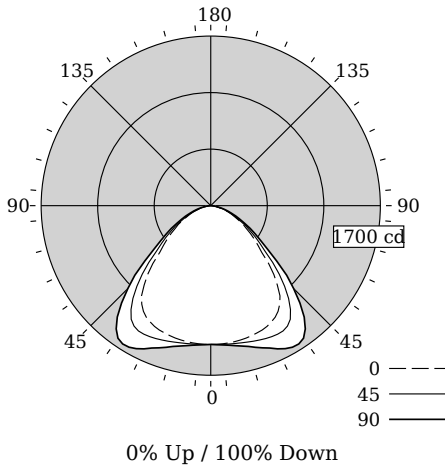
Cross Section

24¼" (617mm)

3½" (90mm)

23¾" (602mm)

Lens View

24¼" (617mm)

23½" (598mm)

Side View

3½" (90mm)

23½" (598mm)

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Photometry – 3500K

180
135 · 135
90 · 90
1700 cd
45 · 45
0
0

0 - - -
45 ———
90 ———

0% Up / 100% Down

Candela Distribution

Vertical Angle	Horizontal Angle					Zonal Lumens
	0	22.5	45	67.5	90	
0	1419	1419	1419	1419	1419	0
5	1419	1419	1420	1424	1426	136
15	1404	1414	1438	1465	1476	409
25	1363	1394	1471	1553	1583	681
35	1258	1311	1449	1594	1642	898
45	903	947	1075	1231	1289	833
55	487	505	600	675	704	539
65	277	282	301	323	332	303
75	116	119	129	140	146	140
85	22	24	27	32	35	33
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	74
3	93	84	76	70	91	82	75	79	73	68	64
4	86	75	67	60	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	46	53	46	41	38
8	63	50	42	37	62	50	42	48	41	36	34
9	59	46	38	33	58	46	38	44	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	2546	3134	3679
65	1963	2131	2357
75	1337	1496	1690
85	763	942	1196

Distribution Summary

Hemisphere	0% Up / 100% Down
Spacing Along (0 °)	1.37
Spacing Across (90 °)	1.65
UGR	18.8

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Optical Performance

Nominal CCT:	4000K	3500K	3000K
Flux (lm)	4037	3972	3905
Efficacy (lm/W)	102.7	101.1	99.1
Power (W)	39.3	39.3	39.4
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	39.3W	38.9W	37.3W
Input Current	0.33A	0.14A	0.11A
Power Factor	0.996	0.971	0.970
Total Harm. Distortion	5.5%	9.0%	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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