SKYLER™

Volumetric LED Flat Panel Luminaire

Client: _____ **Order #:** _____

Project Name: _____ **Type:** _____ **Qty:** _____

Performance Data

CRI

80+

CCT

2700K, 3000K, 3500K, 4000K

Projected Lifetime

165,000 Hours (L70);
105,000 Hours (L80)

Dimming

0-10V Dimming Standard (10%);
1% Dimming Optional

Operating Temperature

-40°C to +50°C

ETL Listed

Suitable for dry and damp locations

ETL Listed • **FLAT OPTIX** • **1% DIMMING** • **10 Yr** Warranty Including Labor

Description

The Skyler recessed volumetric flat panel luminaire is an innovative LED fixture designed to deliver a modern aesthetic and complement today's interior spaces. Featuring a low-profile form factor, the Skyler is ideal for buildings with a low plenum space and is suitable for all standard 2x2 or 2x4 grid ceilings. Incorporating edge-lit LED technology and micro-prismatic conical structures in the diffuser lens, the Skyler features a Unified Glare Rating (UGR) of less than 19, delivering light where it is needed and reducing direct glare to inhabitants. This creates a soft and comfortable lighting experience for commercial and institutional spaces including open offices, classrooms, retail and healthcare facilities.

Features

- Die-cast aluminum frame powder coated white
- Light emitting surfaces are edge-lit acrylic for uniform illumination
- Micro-prismatic lens delivers a Unified Glare Rating (UGR) of less than 19
- Power Factor > 0.95, Total Harmonic Distortion (THD) <10%
- Dimensions (in): 23.75 (W) x 2.34 (H) x 23.75/43.75 (L)
- Delivers up to 106 lm/W of high efficiency, low-glare performance
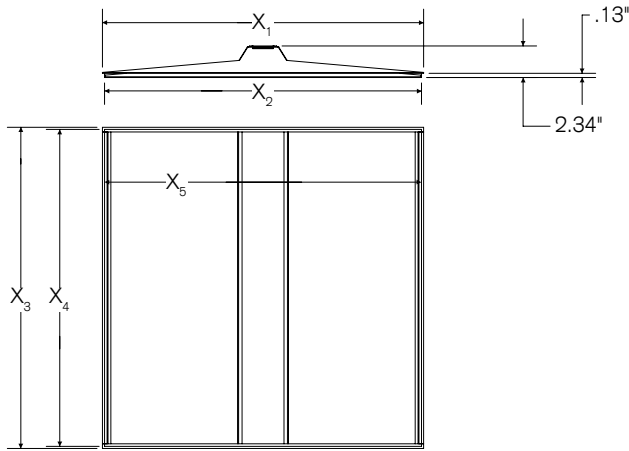- Emergency Backup: Bodine BSL26C Type 1 - 3.0lbs

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SKYLER [A] ___ [B] ___ [C] ___ [D] UNV [E] ___ [F]

Ordering Information

[A] FIXTURE SERIES

SKYLER	Volumetric Flat Panel LED Luminaire

[B] SIZE

22	2' x 2'
24	2' x 4'

[C] Wattage/Lumens (SIZE 22)

40	40W/4200[1]

Wattage/Lumens (SIZE 24)

48	48W/5100[1]

[D] CCT

27	2700K
30	3000K
35	3500K
40	4000K

[E] VOLTAGE

UNV	120-277V

[F] OPTIONS

E	Emergency Backup
CP	Chicago Plenum
FW	Flex Whip
ES1	Lutron LDE1 Series EcoSystem 1% Dimming with Soft On Fade to Black

[1] Delivered Lumens (4000K) - See Page 2 for Lumen Chart

Deco Lighting practices a program of continuous product development, and as a result product specifications change frequently. We reserve the right to change product specifications without notice. Contact Deco for the latest product information.

Dimensions

Inches		
	2x2	**2x4**
X₁	23.75	23.75
X₂	23.44	23.44
X₃	23.75	47.75
X₄	23.44	47.44
X₅	23.06	23.06

Photometrics

Coefficients of Utilization
Effective Floor Cavity Reflectance: 20%

RCC %:	**80**				**70**				**50**			**30**			**10**			**0**
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.10	1.06	1.03	.99	1.08	1.04	1.01	.88	1.00	.97	.95	.96	.94	.92	.93	.91	.89	.87
2	1.02	.95	.89	.84	.99	.93	.87	.76	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3	.94	.84	.77	.71	.91	.83	.76	.67	.80	.74	.70	.77	.73	.68	.75	.71	.67	.65
4	.87	.76	.68	.62	.84	.75	.67	.59	.72	.66	.61	.70	.64	.60	.68	.63	.59	.57
5	.80	.69	.60	.54	.78	.68	.60	.52	.65	.59	.54	.64	.58	.53	.62	.57	.52	.51
6	.75	.62	.54	.48	.73	.61	.54	.47	.60	.53	.48	.58	.52	.47	.57	.51	.47	.45
7	.69	.57	.49	.43	.68	.56	.49	.42	.55	.48	.43	.53	.47	.42	.52	.46	.42	.40
8	.65	.52	.44	.39	.63	.52	.44	.38	.50	.44	.39	.49	.43	.38	.48	.42	.38	.36
9	.61	.48	.41	.35	.60	.48	.40	.35	.47	.40	.35	.46	.39	.35	.45	.39	.35	.33
10	.57	.45	.37	.32	.56	.44	.37	.32	.43	.37	.32	.42	.36	.32	.42	.36	.32	.30

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Luminaire
0-30	1,483.8	36%	36%
0-40	2,375.4	57.6%	57.6%
0-60	3,601.6	87.3%	87.3%
60-90	524.3	12.7%	12.7%
0-90	4,125.9	100%	100%

Model 2X2 40W 3500K

- 0° H
- 90° H
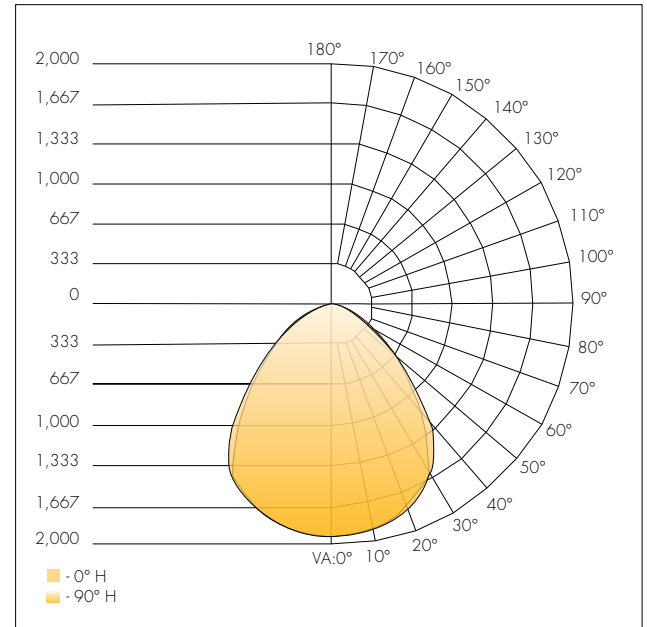
Delivered Lumens: 4,126
CRI: 85

Lumen Chart:

4000K Outputs	4000K
2x2 SIZE	
Set at 40W default	40W / 4200
2x4 SIZE	
Set at 48W default	48W / 5100

For other CCT outputs, multiply by below factors
3500K: 0.98; 3000K: 0.94; 2700K: 0.93

Projected LED Maintenance

Operating Hours	0	25,000	50,000	100,000	150,000
	25℃ (77°F) Ambient Temp				
Lumen Maintenance Factor	1	0.95	0.90	0.81	0.73
	50℃ (122°F) Ambient Temp				
	1	0.94	0.89	0.80	0.71

Lutron Options

ES1   EcoSystem digital control, Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to- Black. Ideal for conference rooms, restaurants, lobbies, ballrooms, and lecture halls. Benefits include: All benefits of the ES5 series plus beautiful, smooth flicker-free dimming down to 1% and a Soft-on, Fade-to- Black™ feature, which provides an incandescent-like experience when transitioning from off to 1% and vice versa.

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Unified Glare Rating (UGR)

DECO LED Flat Panel with Flat Optix™ Lens:
- Light is redirected from 60° to 90° degrees of luminaire, UGR <19
- Conical structures built into the lens minimize high angle glare
- Allows for increased efficacy, rather than lumen output glaring at occupants
- High efficiency and energy saving
- Protection class: IP44 Damp Location Rated
- Increased productivity

Standard LED Flat Panel:
- Harsh glare at viewing angles above 60°, UGR >24
- Wide beam angle at 120°
- Uncomfortable glare
- Reduction in visibility caused by intense light source in field of view
- Protection class: IP22 protects only from objects greater than 12 millimeters
- Loss of productivity

Offending Zone

☐ = Volumetric flat panel with micro-prismatic lens will reduce glare going into the occupant's eyes
— = 90°   ···· = 60°

Offending Zone

▮ = High glare flat panel makes occupant's eyes feel uncomfortable
— = 90°   ···· = 60°

Flat Optics™ Detail
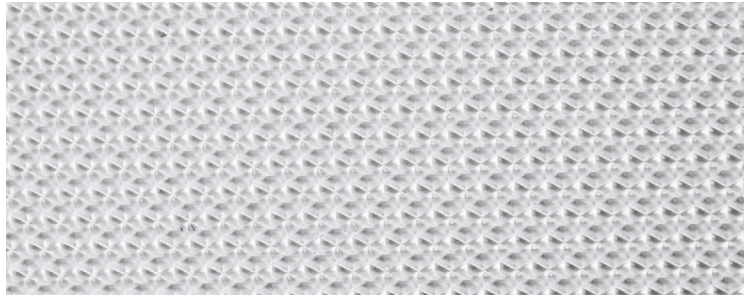
Micro-prismatic technology redirects high-angle light, reducing visual glare. The light above 60° is suppressed to improve the Unified Glare Rating (UGR). This allows for the luminaire to be IESNA RP1-04 & EN12464 compliant, which are standards for office and indoor lighting.

UGR Criteria

UGR:	Hopkinson's Criterion:
<10	Imperceptible
<13	Just Perceptible
<16	Perceptible
<19	Acceptable
>22	Unacceptable
>25	Just Uncomfortable
>28	Uncomfortable

Micro-prismatic conical structures provide the most optimal luminance of a fixture from any viewing angle. The UGR rating of less than 19 provides the most acceptable glare for task lighting.

Close-Up View

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