

PLASKOLITE

KSH® Series

Lighting Lens Selector



KSH SERIES

PRODUCTS FOR LIGHTING

The KSH Series of light controlling products from Plaskolite were designed to meet the requirements of today's sophisticated work environments. Each of the KSH lenses was designed to control and direct fluorescent and HID lighting, based on specific industry requirements, while maintaining a high level of visual comfort.

KSH lighting panel series color and pattern descriptions:

- » **RF** – Radio Frequency suppression to prevent interference in computing and testing equipment
- » **ACRI-TUF®** – 10-20 times stronger than standard acrylic panels



A prismatic panel with a 3/16" square base female conical prism placed on a 45° axis. This panel offers maximum efficiency with excellent direct glare control. It has been considered the standard of the industry for many years.

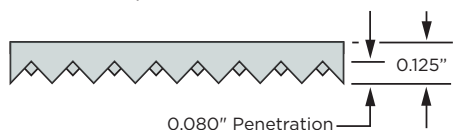
Availability:

- » Clear acrylic
- » RF and ACRI-TUF

AVERAGE LUMINANCE		
Degree	Parallel	Crosswise
45°	1254	1421
55°	946	990
65°	706	676
75°	418	376
85°	387	319

EFFICIENCY	
Degree	Percent
0-40°	40.4%
0-60°	61.2%
0-90°	67.7%

V.C.P. for a 30' x 40' x 8.5' room is 63
Building Acoustics and Lighting
Laboratories
Report No. 5073.0, 7-17-87
KSH-12 Clear Acrylic Lens. 2x4 troffer with
four 3200 lumen lamps
Nadir candlepower: 3779



A prismatic panel with a 3/16" square base male conical prism placed parallel and perpendicular to the length and width of the panel.

This specification panel is better than its injection molded counterparts. This product helps to effectively control high angle brightness.

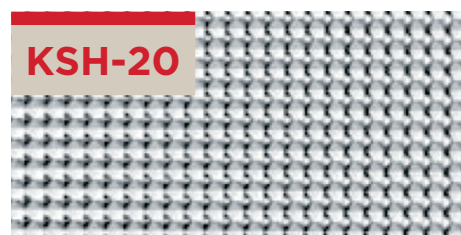
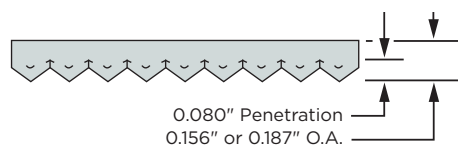
Availability:

- » Clear acrylic
- » RF
- » Recommended thickness for 2' x 4' is 0.156"
- » Recommended thickness for 3' x 3' is .0187"

AVERAGE LUMINANCE		
Degree	Parallel	Crosswise
45°	1290	1451
55°	609	559
65°	290	272
75°	326	318
85°	414	344

EFFICIENCY	
Degree	Percent
0-40°	41.3%
0-60°	61.5%
0-90°	66.9%

V.C.P. for a 30' x 40' x 8.5' room is 68
Building Acoustics and Lighting
Laboratories
Report No. 5058.0, 7-6-87
KSH-19 Clear Acrylic Lens. 2x4 troffer with
four 3200 lumen lamps
Nadir candlepower: 3956



A prismatic panel with a 1/8" square base male conical prism placed parallel and perpendicular to the length and width of the panel.

It offers excellent brightness control and a soft surface appearance.

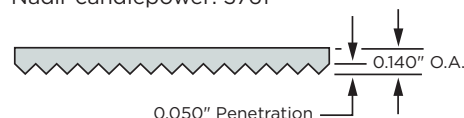
Availability:

- » Clear acrylic
- » Recommended thickness for 2' x 4' is 0.140"

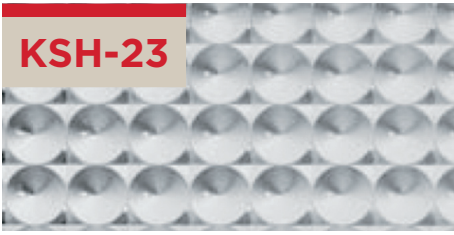
AVERAGE LUMINANCE		
Degree	Parallel	Crosswise
45°	1264	1525
55°	675	683
65°	447	424
75°	366	350
85°	388	331

EFFICIENCY	
Degree	Percent
0-40°	39.4%
0-60°	59.7%
0-90°	65.4%

V.C.P. for a 30' x 40' x 8.5' room is 66
Building Acoustics and Lighting
Laboratories
Report No. 5097.0, 8-7-87
KSH-20 Clear Acrylic Lens. 2x4 troffer with
four 3200 lumen lamps
Nadir candlepower: 3761



KSH-23



This lens is a unique combination of bold, shallow optics, providing excellent retention of the lens' surface texture and uniform surface appearance in fluorescent troffers. The truss-shaped prism design provides an economical solution to sagging lens problems.

Availability:

- » Recommended thickness for 2' x 4' is 0.100"
- » Recommended thickness for 3' x 3' is 0.125"

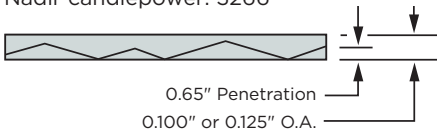
AVERAGE LUMINANCE

Degree	Parallel	Crosswise
45°	1313	1682
55°	1013	1173
65°	655	706
75°	500	545
85°	600	512

EFFICIENCY

Degree	Percent
0-40°	35.1%
0-60°	59.6%
0-90°	68.2%

V.C.P. for a 30' x 40' x 8.5' room is 55
Building Acoustics and Lighting
Laboratories
Report No. 4372.0, 5-28-85
KSH-23 Clear Acrylic Lens. 2 x 4 troffer
with four 3200 lumen lamps
Nadir candlepower: 3266



Frost Glaze

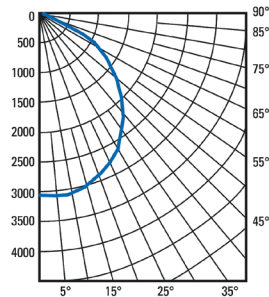


KSH-Frost Glaze panels have a heavily pebbled textured finish on one side, and a smooth finish on the other. This extraordinary pebbled surface adds a new dimension in lighting.

The acrylic used in Frost Glaze White panels is 100% high molecular weight, virgin material meeting Grade 8 requirements*. It exceeds IES-NEMA-SPI standards for acrylic material by 100%. Under normal interior conditions, these panels will perform satisfactorily for 20 years.

EFFICIENCY

Degree	Percent
0-40°	24.7%

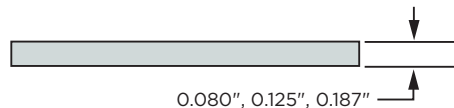


EFFICIENCY

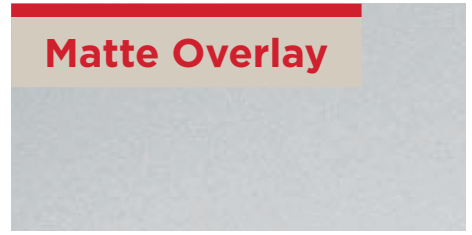
Degree	Percent
0-60°	43.0%
0-90°	54.6%

Candlepower Distribution

Building Acoustics and Lighting
Laboratories
Report No. 2152.0, 10/7/81
Data for lenses in 2' x 4' troffer with four
320 lumen lamps
Fixture reflectance 90%



Matte Overlay



0.040" Matte Overlay Products are high transmission acrylic used as an overlay sheet to diffuse lamp images and provide more uniform surface brightness.

LIGHT TRANSMISSION

	LIGHT TRANSMISSION
A. 0.040" Overlay White	79%
B. 0.040" Clear HT Overlay	83%

Availability:

- » Clear HT and White



PLASKOLITE

A GLOBAL LEADER IN THE PRODUCTION OF THERMOPLASTIC SHEET

FOUNDED IN 1950

Our Mission: to deliver superior thermoplastic sheet, coatings and polymers to the world, through long-lasting customer relationships and hands-on customer service.

MANUFACTURING LOCATIONS



From our founding, PLASKOLITE strives to treat our employees, our customers, our community and the world, with kindness, dignity and respect. This drives our continuing effort to create sustainable products, in a sustainable manner, for future generations. This on-going commitment is expressed in the

PLASKOLITE Sustainable Ecosystem:

QUICK FACTS

STATUS: Privately held

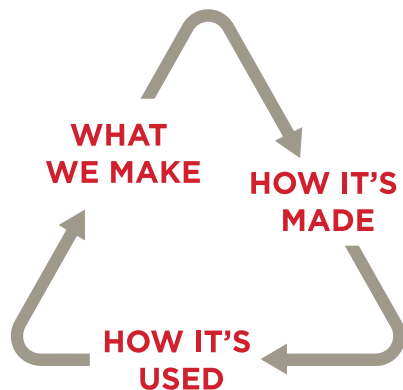
GLOBAL HEADQUARTERS: Columbus, OH

EMPLOYEES: 1900 Worldwide

MARKETS SERVED: Signage, Lighting, Retail Display, Construction, Transportation, Security, Bath & Spa, Industrial, Architecture, Green Houses

OUR PILLARS OF SUSTAINABILITY

EACH CONTRIBUTES TO MAKING THE WORLD A BETTER PLACE



WHAT WE MAKE

Versatile, high-quality, durable thermoplastic materials...not single-use plastics

HOW IT'S MADE

How we make our products reflects our overall philosophy of continuous environmental improvement

HOW IT'S USED

Our thermoplastics play an important role in advancing human well-being, energy conservation and quality of life

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.

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