



A GLOBAL COMPANY IN ENGINEERING PLASTIC



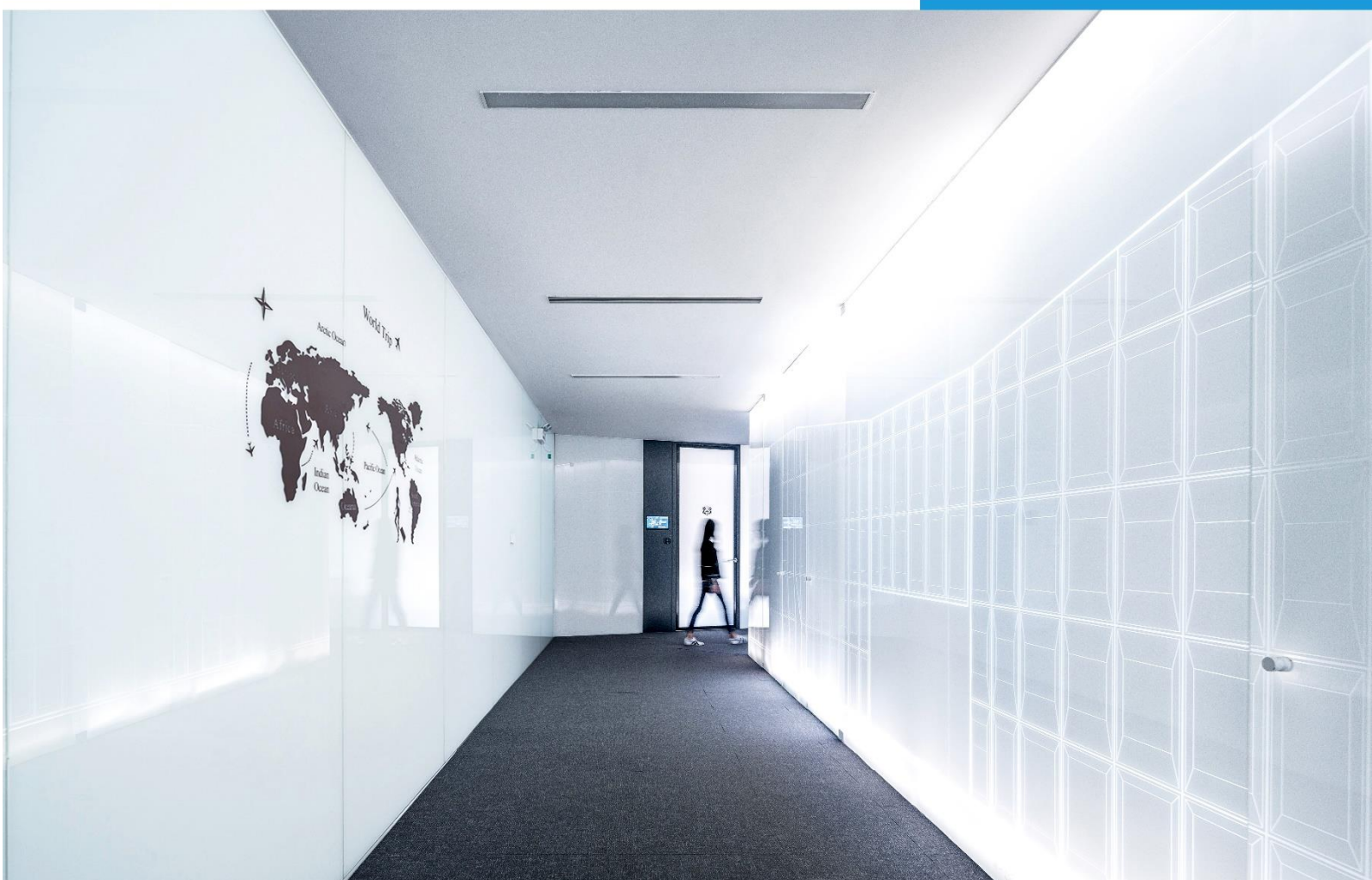
Plastic Sheets



Plastic Finishes



Plastic Fabrication



# UVPLASTIC

Polycarbonate Diffuser Sheet/Film (UVFPF-DI)

[www.uvplastic.com](http://www.uvplastic.com)

# ABOUT UVPLASTIC

2003

Founding Time

165

Staffs

50+

Countries

1200+

Clients

12+

Millions

## WHO WE ARE

UVPLASTIC Material Technology Co., Ltd is a *ONE-STOP SUPPLIER* in the engineering plastic field, established in 2003 at Suzhou, China. After many years of continuous effort, we have one subsidiary and three trademarks ([UVPLASTIC](#), [UVACRYLIC](#), [VIEWSKY](#)), main business are:

1. Engineering Plastic: providing polycarbonate and acrylic in all forms;
2. Machining Service: providing the integrated machining solution for engineering plastic;
3. Application: we design and manufacture products based polycarbonate and acrylic, including [VIEWSKY Bubble Tent](#), [Geodesic Dome Tent](#), [Office Chair Mat](#), [Riot Shield](#), Mini-Greenhouse, etc.

Today, UVPLASTIC is active in architecture & construction, agriculture, medical industry, auto industry, security industry, electronic industry, POP display, optical industry, and industrial fabrication, etc.

## COOPERATION PARTNER



# WHY UVPLASTIC

## *One-Stop Supplier*



UVPLASTIC is a one-stop [supplier of polycarbonate](#) and [acrylic sheets](#) in all forms. Meantime, we offer the complete system for the greenhouse, building roof, and facade system.

## *Machining Service*



With more than 15 years of experience and high efficient working style, UVPLASTIC can build the prototype and will make customer's ideas come true within short time.

## *Design and Development*



With assistance from CAD, Solidworks, CATIA, and UG, UVPLASTIC works with global engineers to discuss product feasibility and find the best solution for the projects.

## *Design it and make it*



UVPLASTIC have designed some products based on polycarbonate and acrylic, such as VIEWSKY Bubble Tent, Geodesic Dome Tent for hotel, restaurant, glamping, and display application. The mini-greenhouse and office chair mat are popular all over the world.

## FEATURED PRODUCTS

### UVPLASTIC Polycarbonate

[Solid Polycarbonate Sheet](#);

[Anti-Static Polycarbonate](#);

[Polycarbonate Light Diffuser](#);

[Multi-wall Polycarbonate](#);

[Polycarbonate Film](#);

[Corrugated Polycarbonate](#);

[Polycarbonate Roofing Panel](#);

[Polycarbonate Facade](#);

### Machining Service

[Machining Polycarbonate](#);

[Custom Acrylic](#);

### UVACRYLIC Plexiglass:

[Clear Acrylic Sheet](#);

[Colored Acrylic Sheet](#);

[Acrylic Rod](#);

[Acrylic Tube](#);

[Acrylic Mirror](#);

[Acrylic Block](#);

[LGP Acrylic](#);

[Acrylic Film](#);

### Glamping Dome Tent

[VIEWSKY Bubble Tent](#);

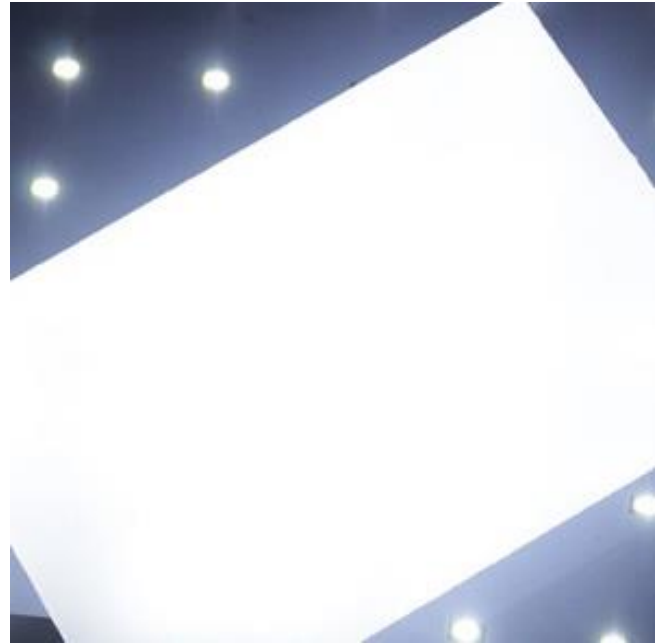
[Geodesic Dome](#);

## Polycarbonate Diffuser Sheet

UVFPC-DI is the series code of UVPLASTIC Polycarbonate Diffuser Sheet/Film and reflector, which is used for lighting application. It helps to get soft and comfortable light as the high haze and light transmittance.

Compared with PMMA diffuser, polycarbonate diffuser offers higher impact resistance, better flame retardant property and dimensional stability in a large temperature from -40 °C to 120 °C.

It is the right material for the LED lamp, LED sign, architectural lighting system, elevator lighting system, railcar lighting system, etc. Otherwise, Polycarbonate Diffuser Sheet/Film is also the right choice for industrial applications including electron industry, machine vision system and medical device inspection.



### Main Benefits

- Excellent toughness and impact resistance, it is virtually unbreakable;
- High haze, light transmittance, and excellent diffusion of LED hot spots;
- Outstanding flame retardant property, up to V-0;
- Easy to machine to any shapes you want, can be cold bent and thermal formed;
- Good performance at a large temperature from -40 °C to 120 °C;
- More flexible and available in UV protective layer for outdoor use;

## UVPLASTIC™ Light Diffuser Specification

### Product Range

Model	Product Name	Standard Thickness (mm)	Luminousness or Reflection (%)
UVFPC-DI	Light Diffuser Sheet	0.5mm, 0.8mm, 1mm, 1.2mm, 1.5mm, 2mm, 3mm, 4mm, 5mm	From 60% to 85%
UVFPC-TDI	Light Diffuser Film	0.2mm, 0.3mm, 0.4mm	From 80% to 90%
UVFPC-RF	Light Reflector	0.2mm, 0.25mm, 0.3mm, 0.35mm, 0.4mm	94%, 97%
UVFPC-NG	Non-glare Diffuser Panel	0.5mm, 0.8mm, 1mm	95%

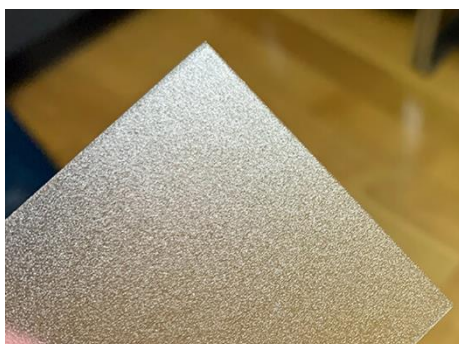
- The standard size is 1180x1180mm, 1220x2440mm;
- Custom size is available;
- Machining service is available;

### Surface Type

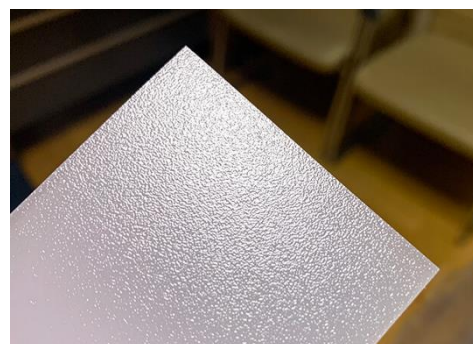
Surface Code	Description
0	Polished Surface
1	Fine Matte Surface
2	Matte Surface
3	Frosted Surface



1: Fine Matte Surface



2: Matte Surface



3: Frosted Surface

## Light Diffuser Sheet (UVFPC-DI)

### Polished Surface and Frosted Surface

Product Code	Thickness (mm)	Luminousness (%)	Haze (%)	Surface Type	Standard Size (mm)
DI-0360-500	0.5mm	60±2%	95±2%	Polished/Frosted	1220x2440 mm
DI-0380-1000	1mm	80±2%	95±2%	Polished/Frosted	1220x2440 mm
DI-0380-1200	1.2mm	80±2%	95±2%	Polished/Frosted	1220x2440 mm
DI-0380-1500	1.5mm	80±2%	95±2%	Polished/Frosted	1220x2440 mm
DI-0380-2000	2mm	80±2%	95±2%	Polished/Frosted	1220x2440 mm
DI-0380-3000	3mm	80±2%	95±2%	Polished/Frosted	1220x2440 mm
DI-0380-4000	4mm	80±2%	95±2%	Polished/Frosted	1220x2440 mm

### Matte Surface and Frosted Surface

Product Code	Thickness (mm)	Luminousness (%)	Haze (%)	Surface Type	Standard Size (mm)
DI-2360-500	0.5mm	60±2%	95±2%	Matte/Frosted	1180x1180 mm
DI-2370-800	0.8mm	70±2%	95±2%	Matte/Frosted	1220x2440 mm
DI-2380-1000	1mm	80±2%	95±2%	Matte/Frosted	1220x2440 mm
DI-2380-1200	1.2mm	80±2%	95±2%	Matte/Frosted	1220x2440 mm
DI-2380-1500	1.5mm	80±2%	95±2%	Matte/Frosted	1220x2440 mm
DI-2380-2000	2mm	80±2%	95±2%	Matte/Frosted	1220x2440 mm
DI-2380-3000	3mm	80±2%	95±2%	Matte/Frosted	1220x2440 mm
DI-2380-5000	5mm	80±2%	95±2%	Matte/Frosted	1220x2440 mm



### High Luminousness (Matte Surface and Frosted Surface)

Product Code	Thickness (mm)	Luminousness (%)	Haze (%)	Surface Type	Standard Size (mm)
DI-2385-800	0.8mm	85±2%	95±2%	Matte/Frosted	1220x2440 mm
DI-2385-1000	1mm	85±2%	95±2%	Matte/Frosted	1220x2440 mm
DI-2385-1200	1.2mm	85±2%	95±2%	Matte/Frosted	1220x2440 mm
DI-2385-1500	1.5mm	85±2%	95±2%	Matte/Frosted	1220x2440 mm

#### Remark:

- Machining service is available;
- Flame Retardant grade will be V2 or V0/UL94;

### Light Diffuser Film (UVFPC-TDI)

Product Code	Thickness (mm)	Luminousness (%)	Haze (%)	Surface Type	Standard Size (mm)
TDI-0190-200	0.2mm	90±2%	95±2%	Polished/Frosted	1200x600 mm
TDI-0290-300	0.3mm	80±2%	95±2%	Polished/Frosted	1200x600 mm
TDI-0290-400	0.4mm	80±2%	95±2%	Polished/Frosted	1220x1220 mm

### Polycarbonate Reflector (UVFPC-RF)

Product Code	Thickness (mm)	Reflection (%)	Surface Type	Standard Size (mm)
RF-1294-200	0.2mm	94%	Fine Matt/Matt	1220x2440 mm
RF-1294-250	0.25mm	94%	Fine Matt/Matt	1220x2440 mm
RF-1294-300	0.3mm	94%	Fine Matt/Matt	1220x2440 mm
RF-1294-350	0.35mm	94%	Fine Matt/Matt	1220x2440 mm
RF-1294-400	0.4mm	97%	Fine Matt/Matt	1220x2440 mm

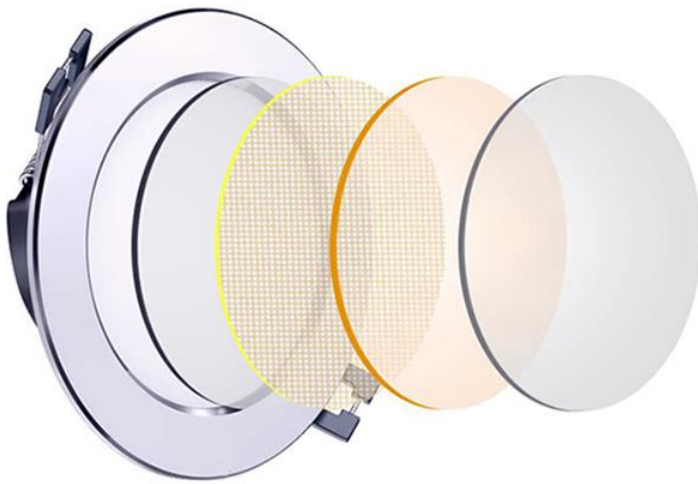
### Non-glare Polycarbonate Panel (UVFPC-NG)

Product Code	Thickness (mm)	Luminousness (%)	Haze (%)	Surface Type	Standard Size (mm)
NG-2390-500	0.5mm	95±2%	70±2%	Special Frosted Surface	1180x1180 mm
NG-2390-800	0.8mm	95±2%	70±2%	Special Frosted Surface	1220x2440 mm
NG-2390-800V	0.8mm	95±2%	70±2%	Special Frosted Surface	1220x2440 mm
NG-2390-1000	1mm	95±2%	70±2%	Special Frosted Surface	1220x2440 mm
NG-2390-1000V	1mm	95±2%	70±2%	Special Frosted Surface	1220x2440 mm

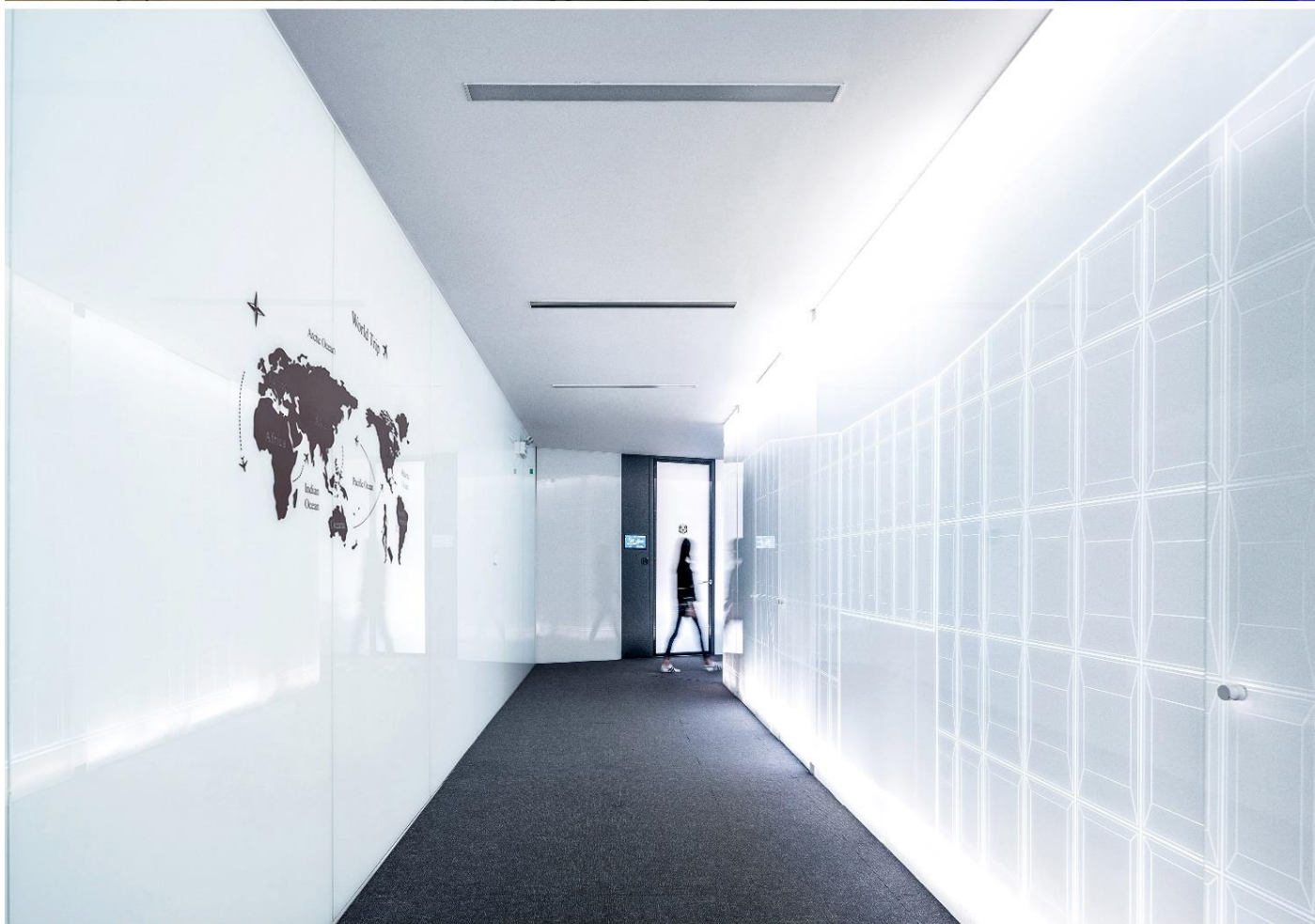
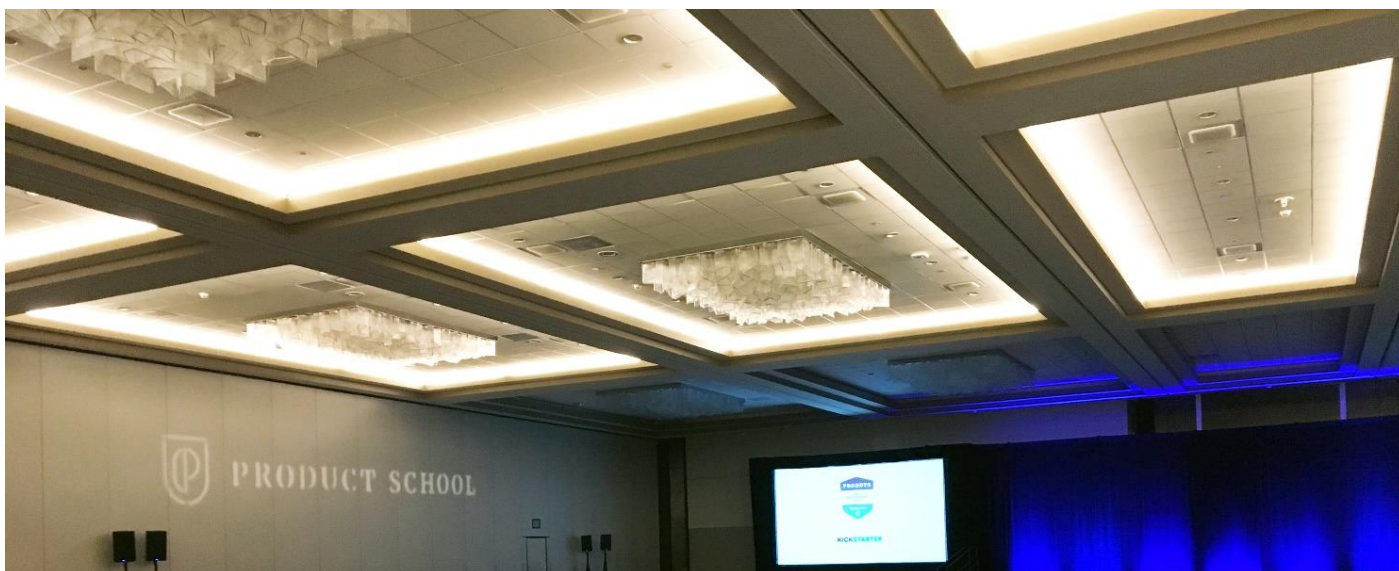


## Applications

### LED Light and Lighting Fixture



## Office Lighting System





## Billboard

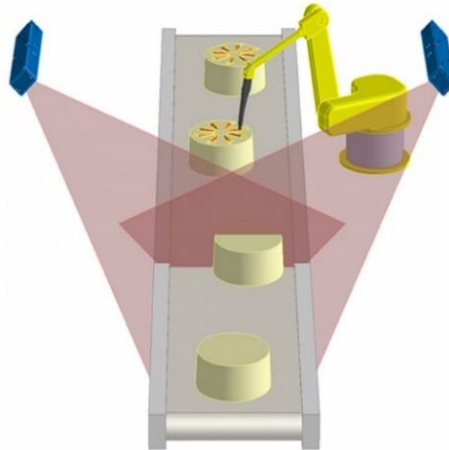


## Flight Lighting System for transportation





## Machine Vision System and BLU System (Back Light Unit)



**AND MORE...**



## **CONTACT US**

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