



Lextar

Company Profile Infrared LED

2023/09/19

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Lextar in Brief

Lextar



▲ **Company Establishment**

May, 2008

▲ **Workforce**

1,400 Taiwan
2,000 China
3,400 Total

▲ **Product Semiconductor component and module**

- Display
- Leading-edge Optoelectronics (Sensing, Wearable, UV)
- Automotive
- Professional Lighting

▲ **Revenue 2020**

USD 322 Million ^{*1}

▲ **Stock Symbol**

Ennostar Inc. : 3714 ^{*2}

^{*1}: Rate: 28.48, base on the rate on 31/Dec/2020

^{*2}: Lextar and Epistar established Ennostar via share conversion in Jan/ 2021

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Close-to-market Manufacturing Sites

▲ TAIWAN



▲ Hsinchu Site (Headquarters)

Epi / Chip / R&D



▲ Chunan Site

Chip / Package / SMT /
Automotive & Mini LED R&D

▲ CHINA



▲ Chuzhou, Anhui

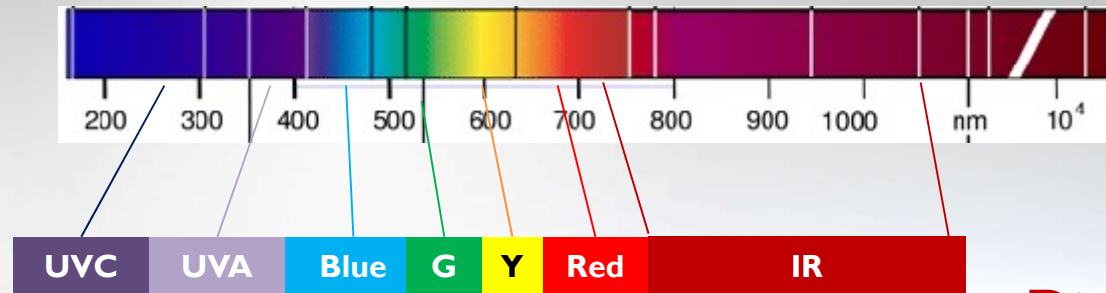
Chip / Package / SMT /
Supply Chain



▲ Suzhou Industrial Park

Epi

Product Range



Automotive



Display



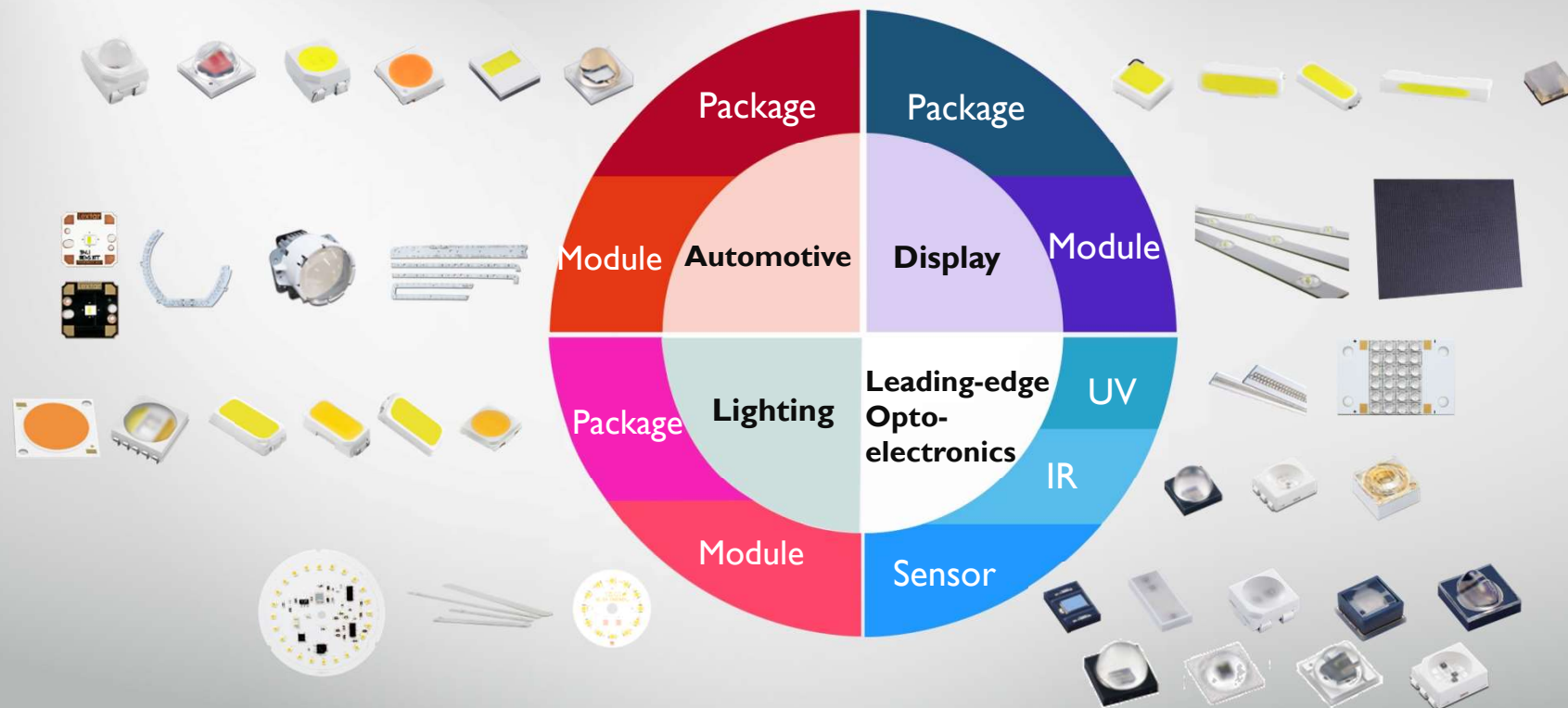
Lighting



Leading-edge Optoelectronics



Lextar Product Line-up



Innovation Focused Company with Fast Growing Patent Numbers

Patents filed in:       

● Total
■ Granted
■ Pending



Our Quality is Broadly Certified

Certifications



ISO 9001

IATF 16949

ISO/IEC 17025

ISO 14001

BS OHSAS 18001

Infrared High Power LED

Capacity: 10KK
Package/ month

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3535 Series

PR35 Series: 120° / 90° / 60°



3737 Series

PR37 Series: 150°



2720 Series

PR27 Series: 120° / 80°



Application

CCTV



IP Camera



Smart Door Bell



Face Recognition



Gesture



Driver Detect

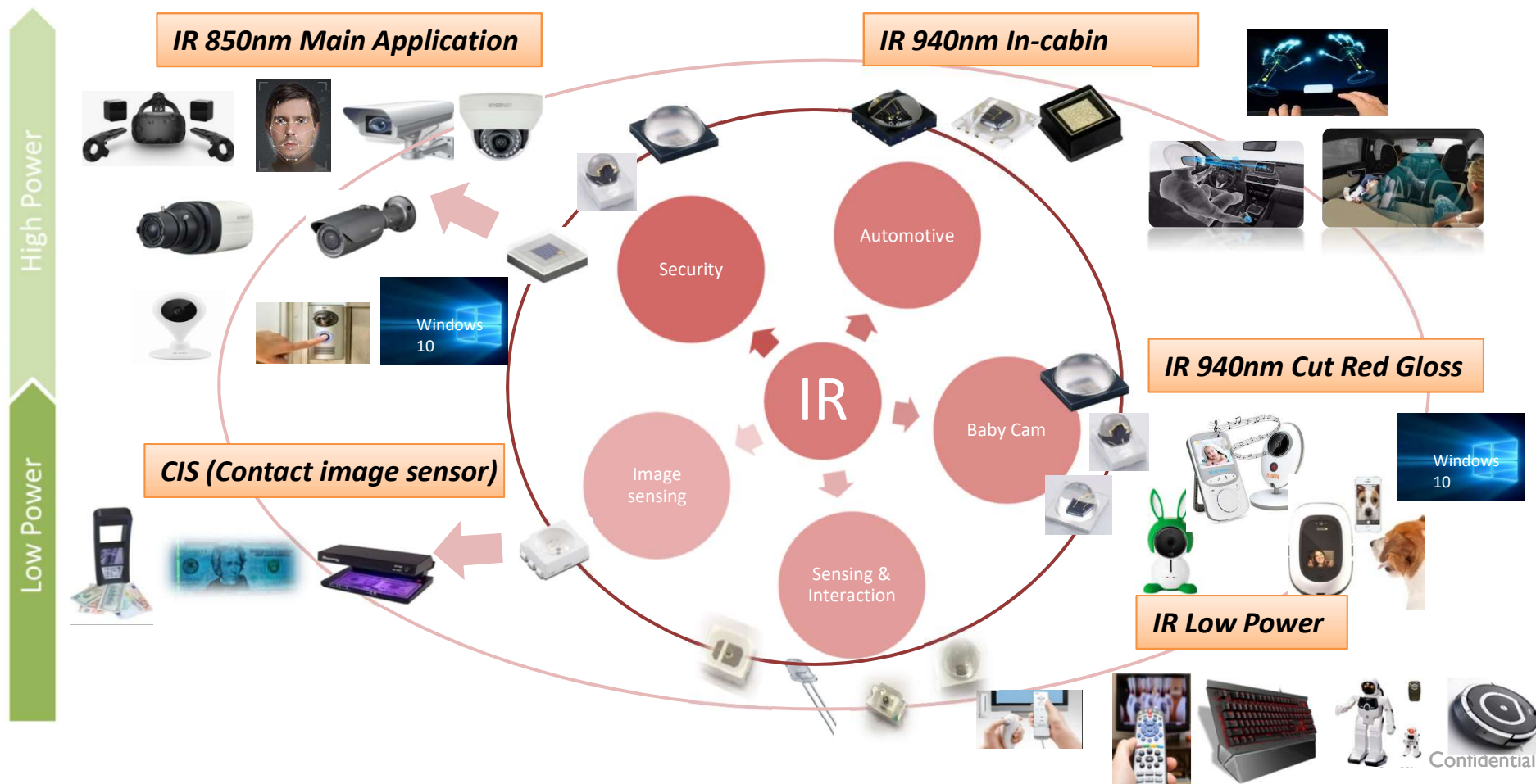


Counterfeit

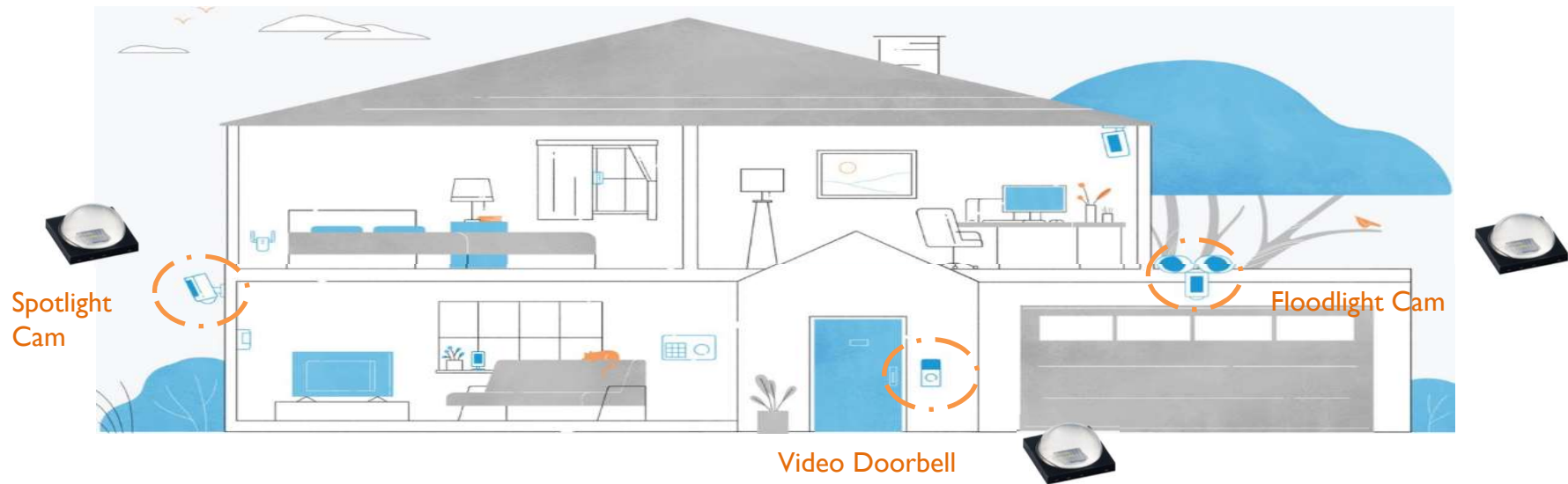


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IR Application



IR for Smart Home Security



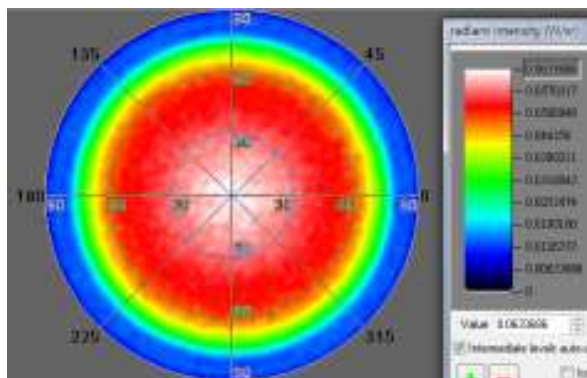
- ◆ Wavelength: 850nm
- ◆ Smart door bell use 1~2pcs IR LED
- ◆ Outdoor monitor use 4~6pcs IR LED

Our Optical Advantage

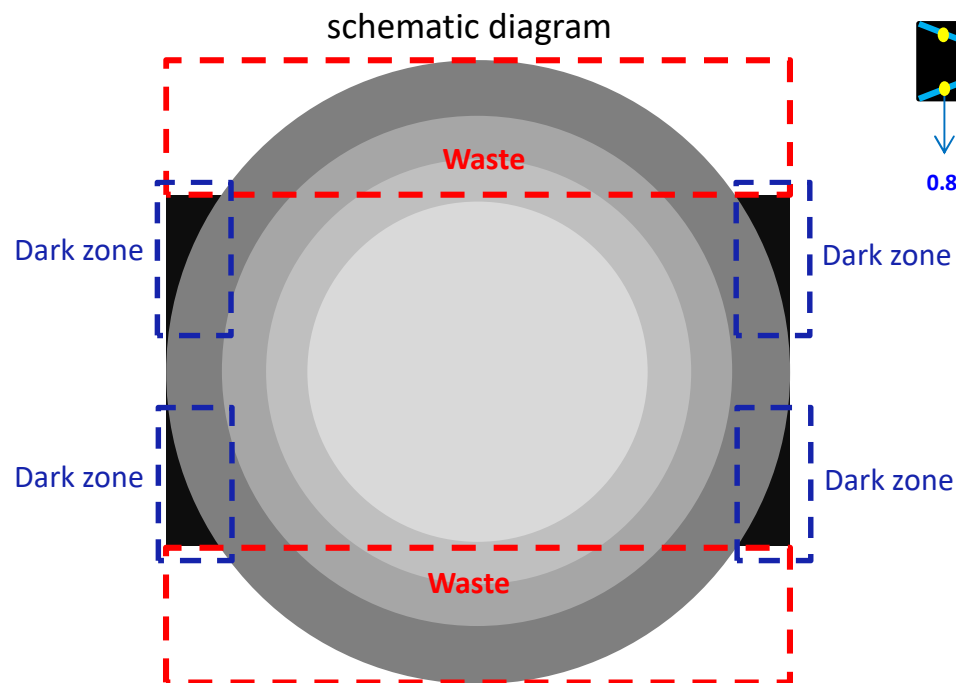
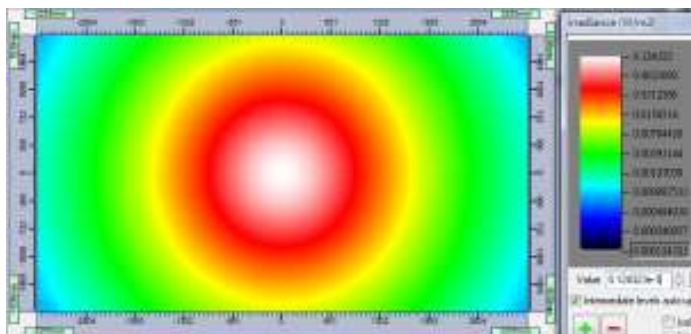


Traditional LED: 150° × 150° (PR37V31)

Intensity distribution



Irradiance distribution



Disadvantage in wide FOV scene :

- ◆ Low energy efficiency
- ◆ Dark corner

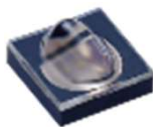
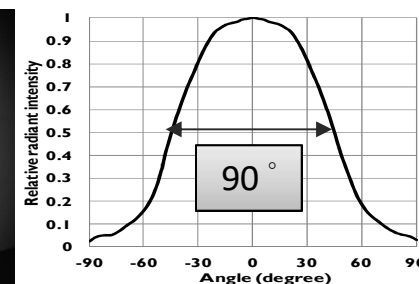
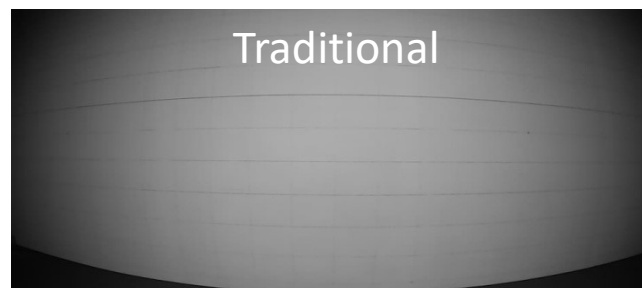
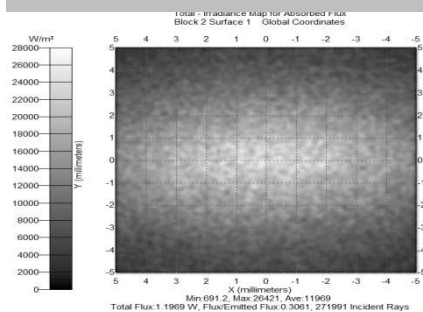
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Rectangle Light Pattern for FOV 130° × 80°

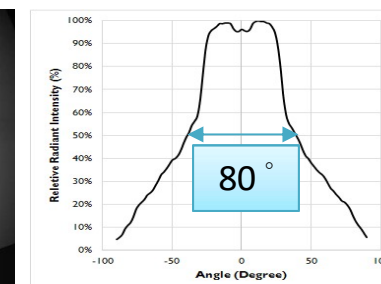
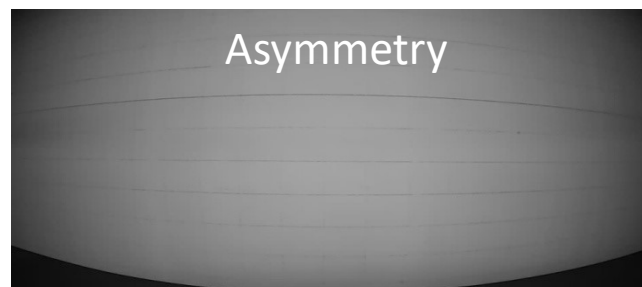
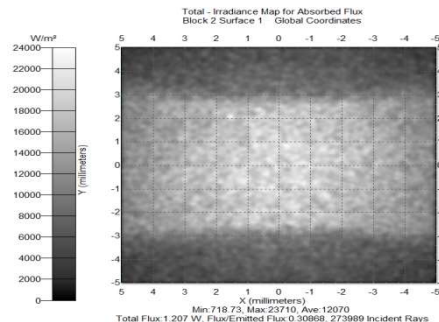


Simulation

Real Camera Image

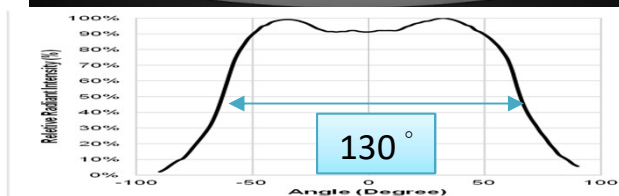


MP Experience in asymmetric pattern



Effects:

- ◆ Eliminate dark corner
- ◆ Perfect fit 16:9 image field
- ◆ Double peak compensates for camera shading effect



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Lextar Products

LED Solution and Value Provider

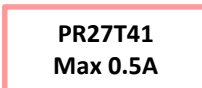
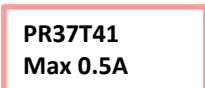
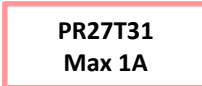
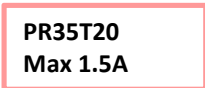
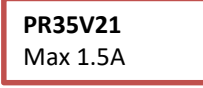
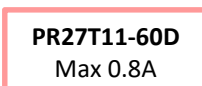
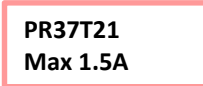
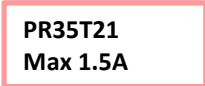
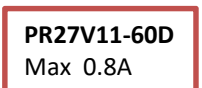
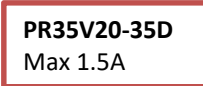
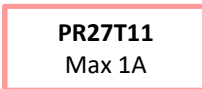
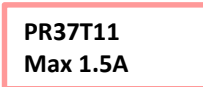
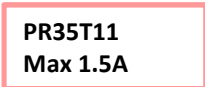
➤ IR Portfolio

3535/3737/2720 IR LED Product Cross



Six emission patterns: 35°, 60°, 90°, 120°, 150° and an asymmetric radiation pattern of 130 x 80°

Max Power	5.8W(Double)	60 °/90 °/120 ° /130 °*80 °	3737: 150D	2720: 60D, 80D, 120D	AEC-Q102			
		PR35V11 Max 1.5A	PR37V11 Max 1.5A	PR27V11 Max 1.5A	PA35RT1 Max 1.5A	PR35T11 Max 1.5A	PR37T11 Max 1.5A	PR27T11 Max 1A
	3W	PR35V20-35D Max 1.5A	PR37V21 Max 1.5A	PR27V11-60D Max 0.8A	PR35T21 Max 1.5A	PR37T21 Max 1.5A	PR27T11-60D Max 0.8A	
		PR35V21 Max 1.5A			PR35T20 Max 1.5A			
	2W	PR35V30 Max 1A	PR37V31 Max 1A	PR27V31 Max 0.8A	PR35F1Z Max 1A			PR27T31 Max 1A
1W		PR35V41 Max 0.5A	PR37V41 Max 0.5A			PR37T41 Max 0.5A	PR27T41 Max 0.5A	
		850nm			940nm			Wavelength





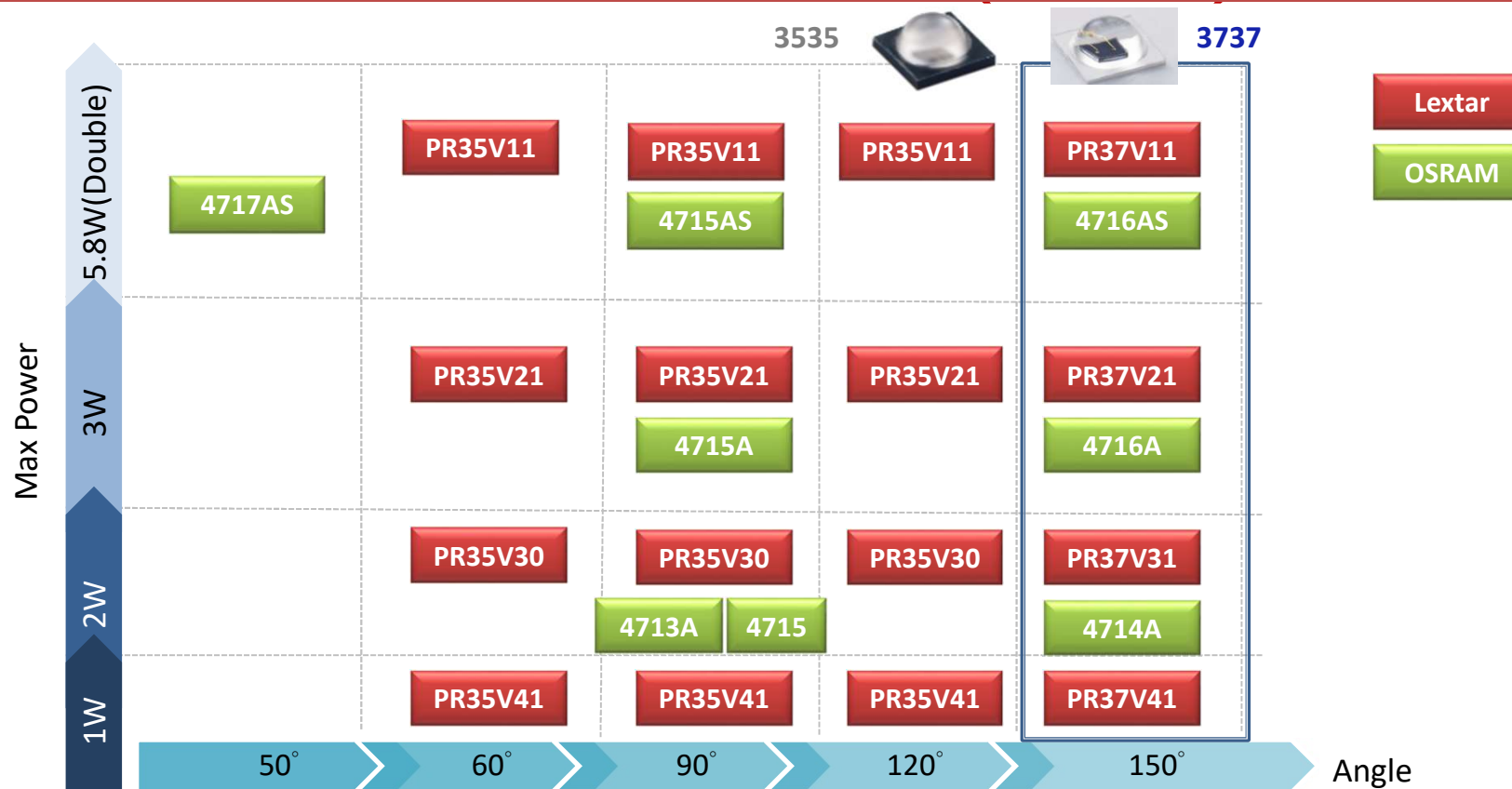


Wavelength

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3535/3737 IR LED Product Cross (850nm)

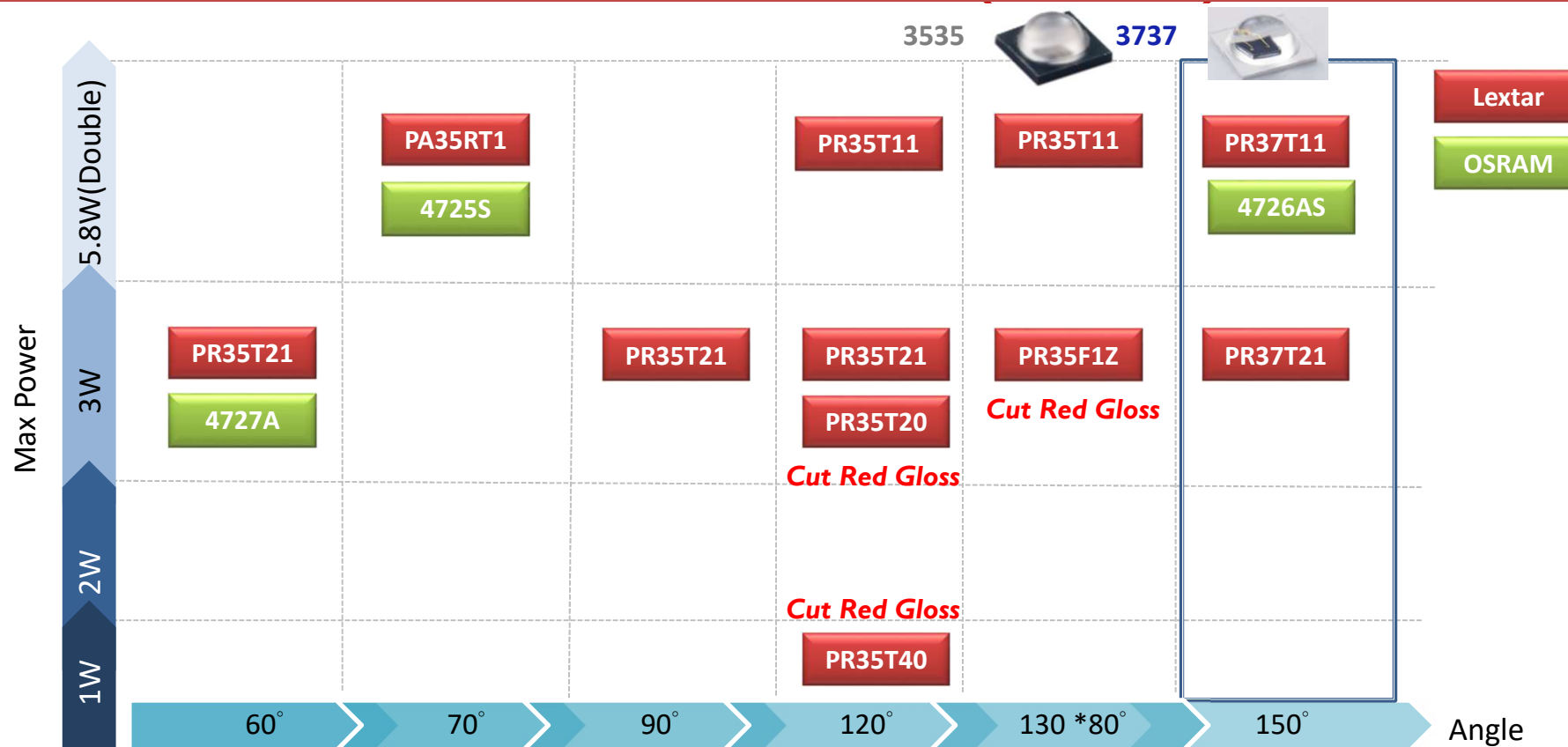
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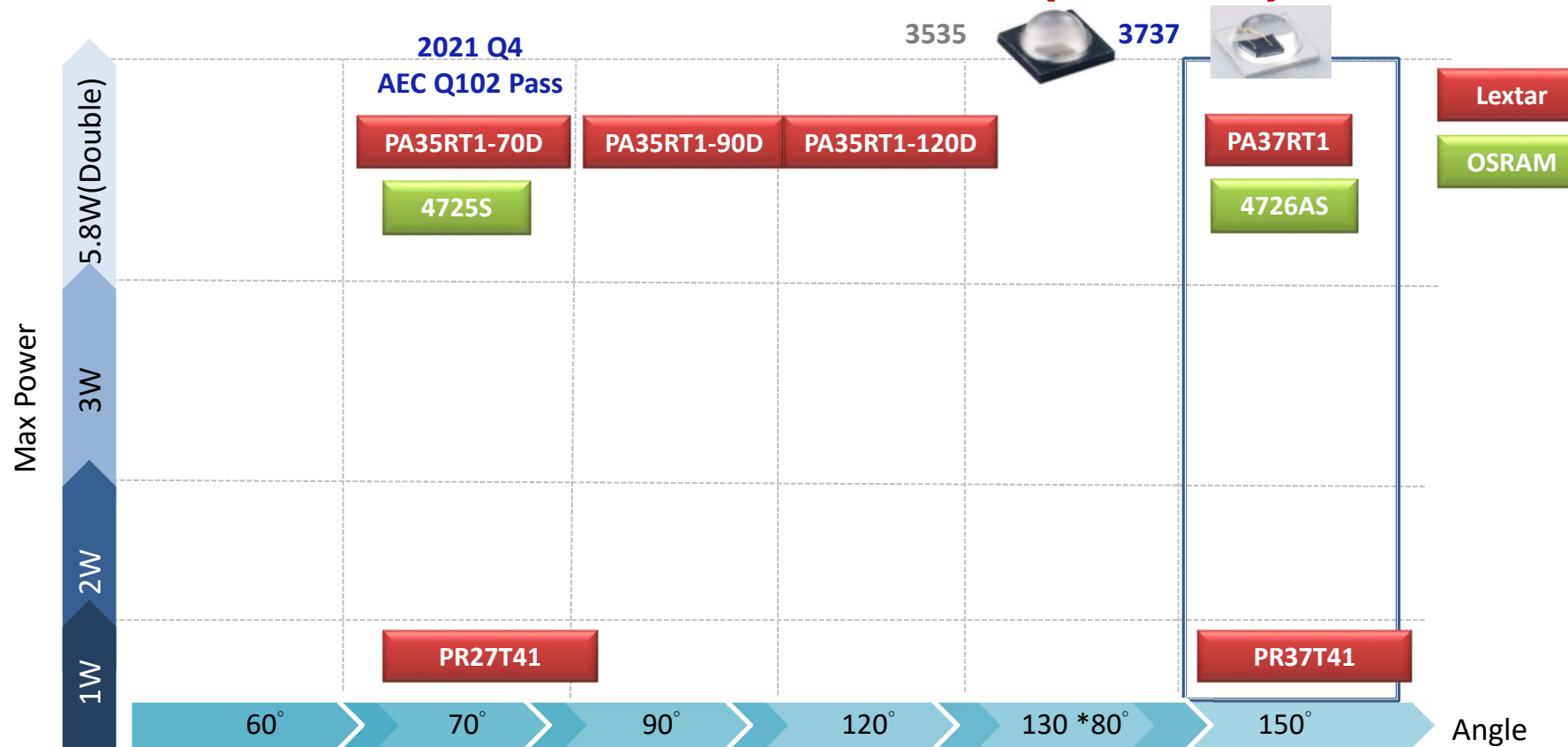
3535/3737 IR LED Product Cross (940nm)

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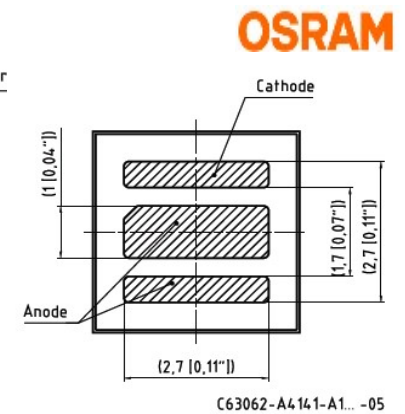
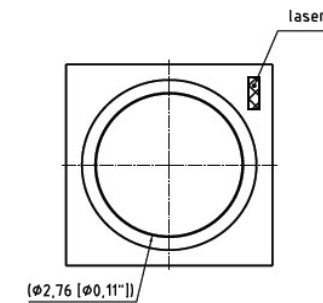
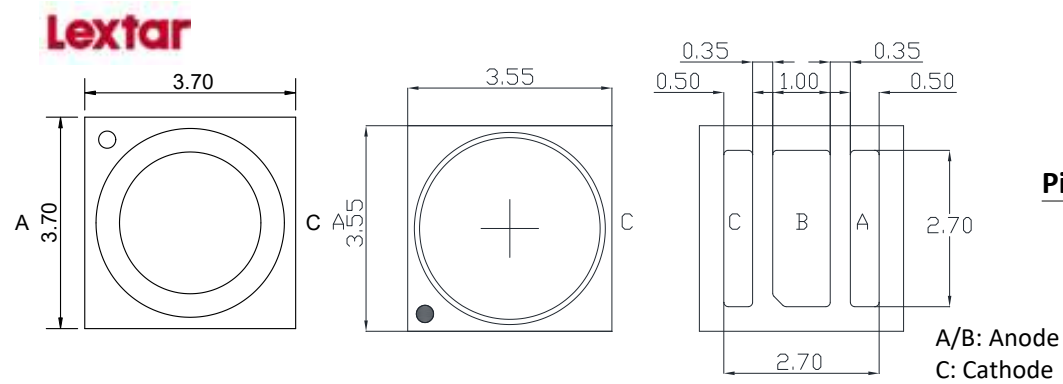


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Automotive IR LED Product Cross (940nm) Lextar



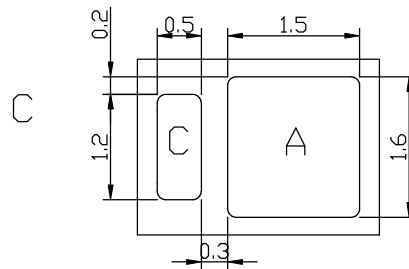
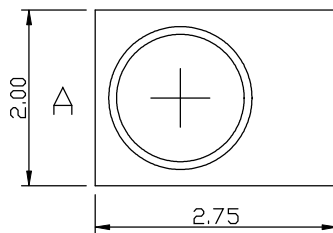
3535 IR LED Product Cross (850nm)



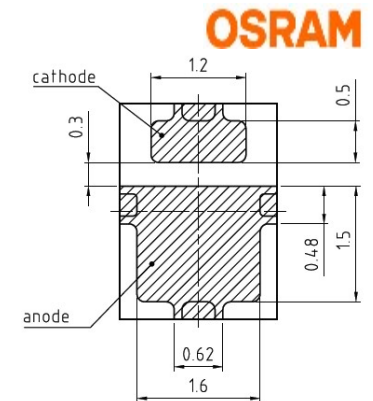
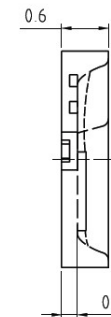
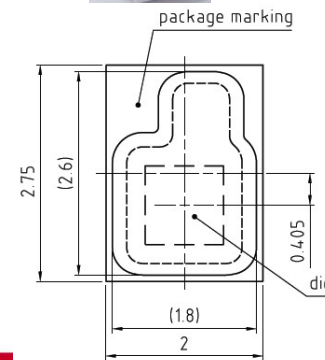
2720 IR LED Product Cross (850nm)



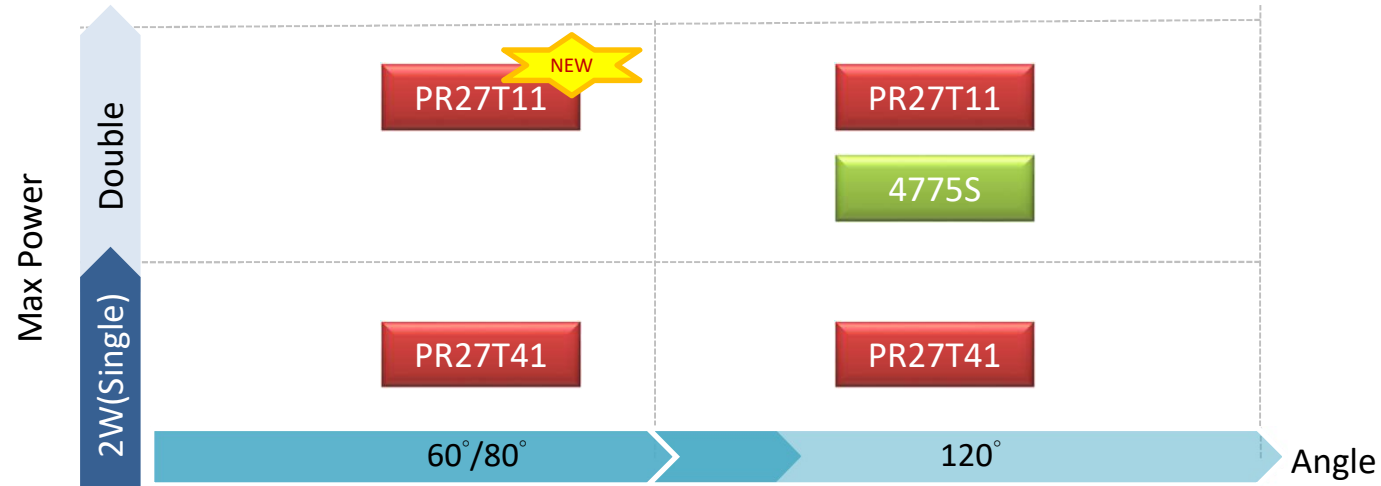
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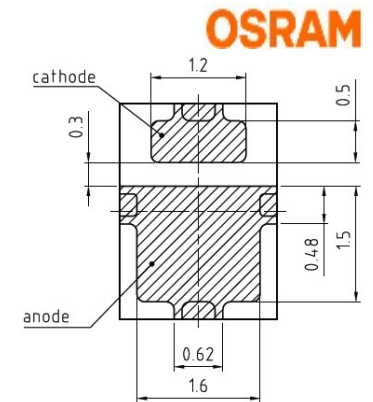
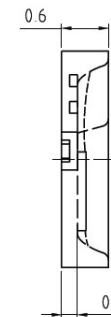
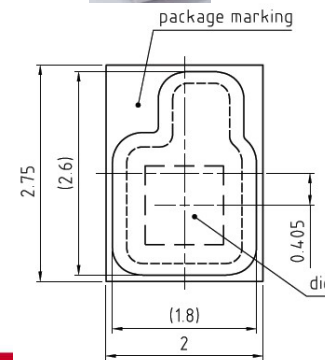
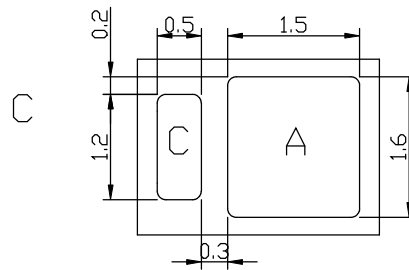
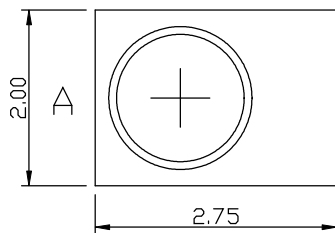
Pin to pin



2720 IR LED Product Cross (940nm)



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