

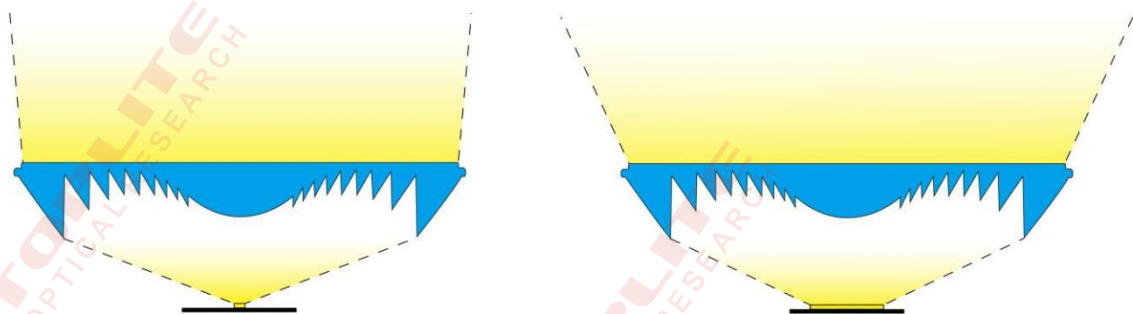
Total Internal Reflection Fresnel Lens

PEGGY and KULLEN Series

Total Internal Reflection Fresnel lens (T.I.R Fresnel lens in short) has the characteristics of ultra-short focal length, high transmittance, high efficiency concentrating, uniform output, and good spot transition.

Usage: Place the LED at the focus position of the centerline of the lens, and the position of the light source and the lens is fixed. The beam angle will widen and narrow with the LES of LED. Multiple light sources and lens units can be used to form a high-power matrix, and the beam angle is almost the same as that output by a single group.

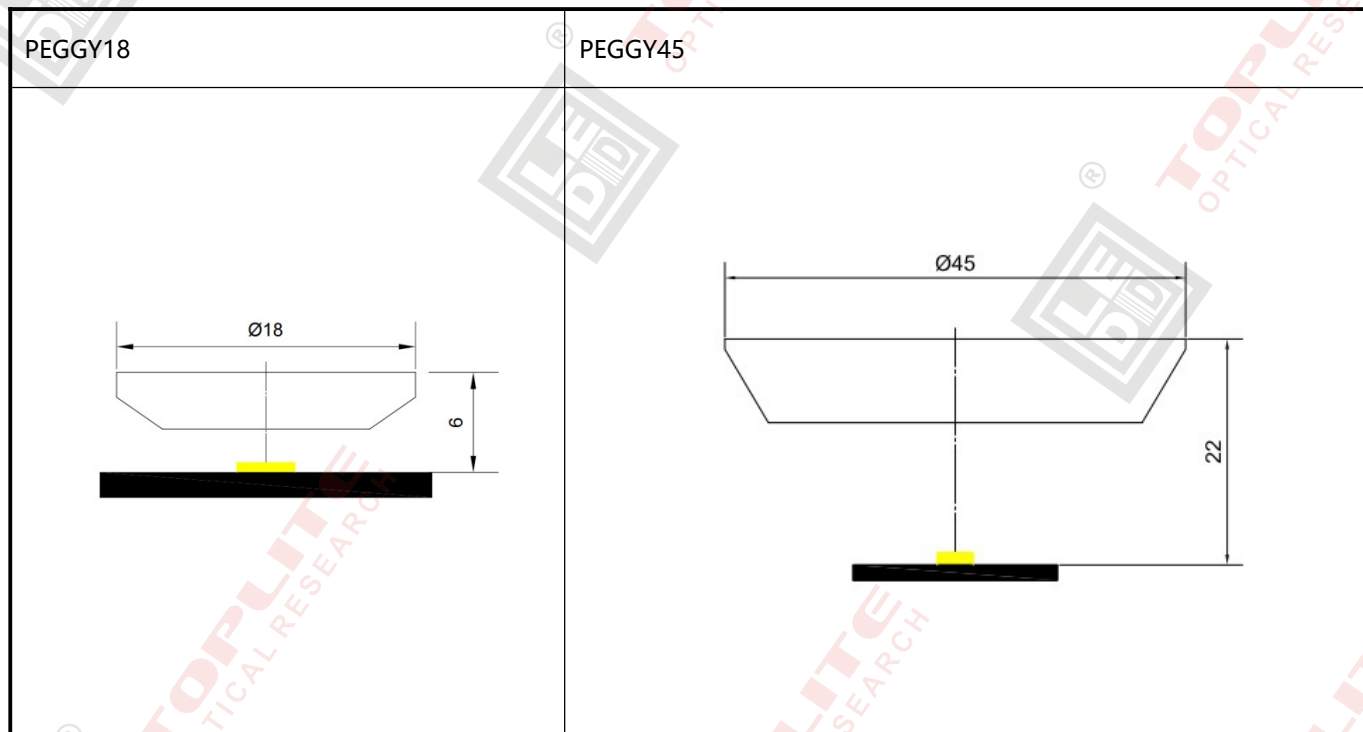
Applications: flood lights, stadium lights, exhibition lights, audience lights, spotlights, downlights, high bay lights, beam lights, outdoor searchlights, flashlights, etc.

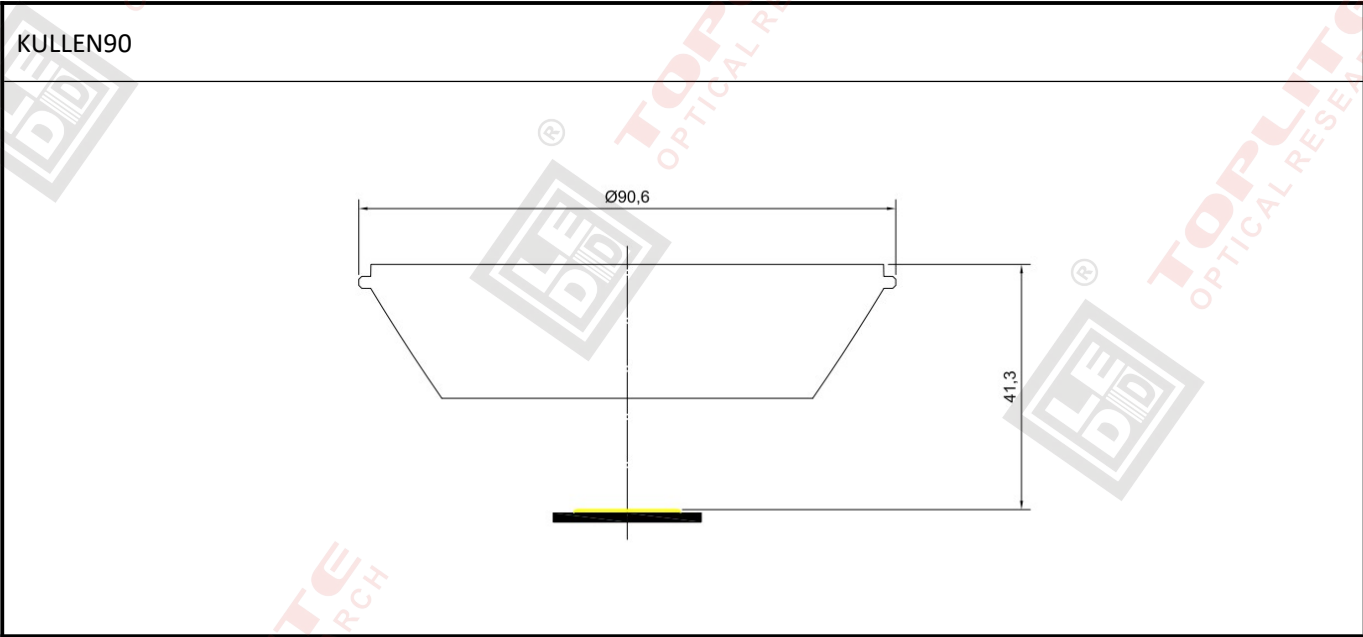
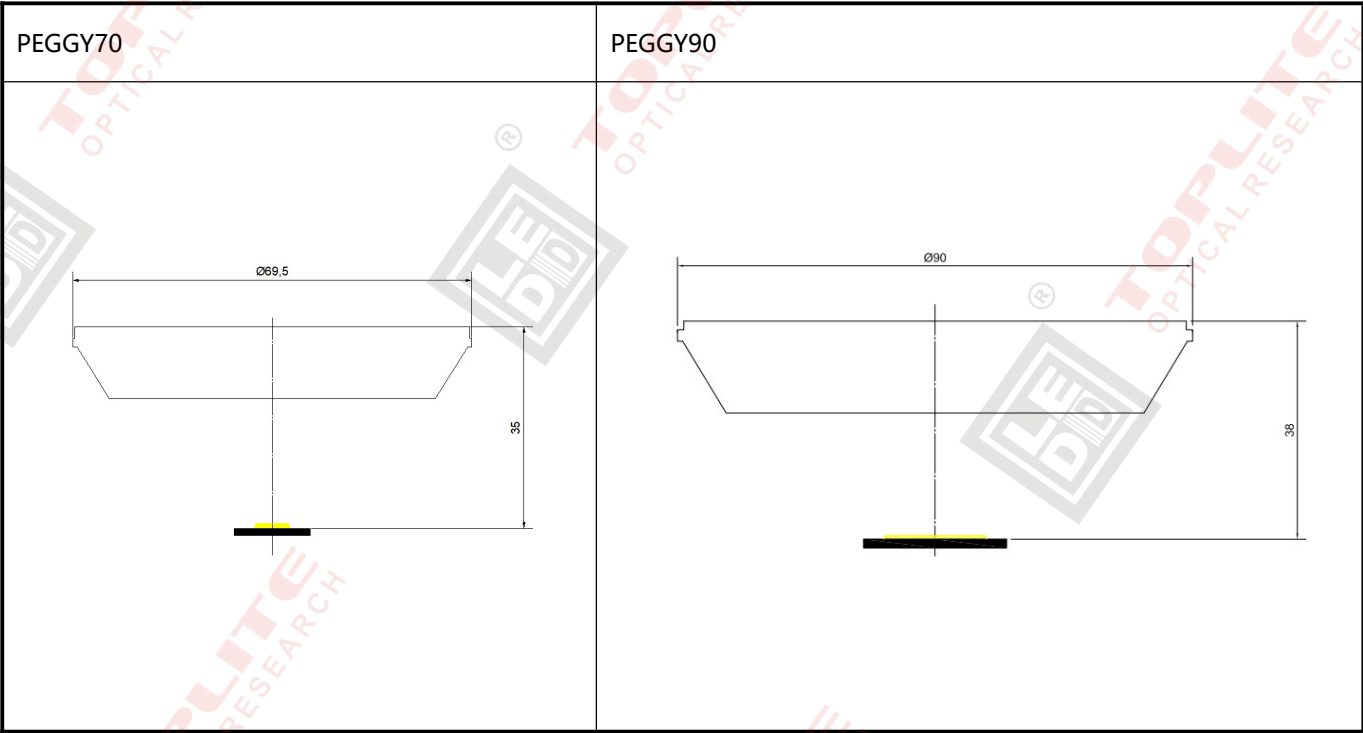


Light beam angles and the LEDs with different luminous surfaces.

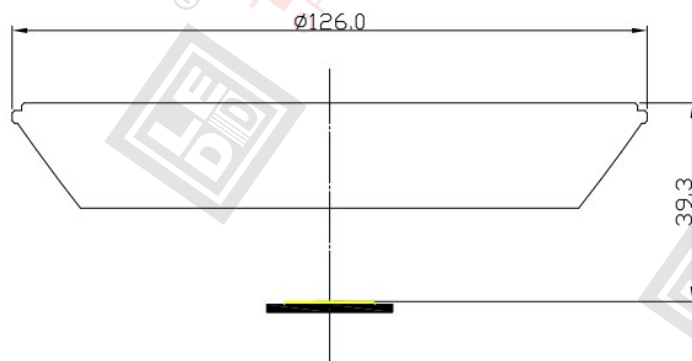
Product Selection List:

Lens Model	Size	LES of LED	LED Power	Beam angle (50% Intensity)	Field angle (10% Intensity)	Transmittance
PEGGY18	Φ18×3.4 mm	Φ1mm	≤10W	9°	15°	92%
PEGGY45	Φ45×8.2 mm	Φ1mm	≤5 W	2°	3°	
		Φ2.2mm	≤13 W	5°	5.5°	
PEGGY70	Φ70×12.5 mm	Φ2.2mm	≤13W	5°	7.6°	
		Φ6mm	≤60W	7.7°	11.7°	
		Φ18mm	≤200W	22°	33.6°	
PEGGY90	Φ90×16 mm	Φ6mm	≤60W	6.5°	9.9°	
		Φ18mm	≤200W	15°	22.9°	
KULLEN90	Φ90×22.4 mm	Φ2.2mm	≤40W	2°	3°	
		Φ3.2mm	≤60W	4°	6°	
KULLEN126	Φ126×20.8 mm	Φ2.2mm	≤60 W	3.3°	5.3°	
		Φ8.5mm	≤300W	8°	12.2°	
		Φ26mm	≤500W	20.4°	29.6°	
KULLEN200	Φ200×32.6 mm	Φ2.2mm	≤60 W	2.36°	4.7°	
		Φ8.5mm	≤300W	5.6°	9.14°	
		Φ26mm	≤500W	12.3°	20.4°	

Light Path Diagram:




KULLEN126



KULLEN200

