

RFIL-60E3



Application features:

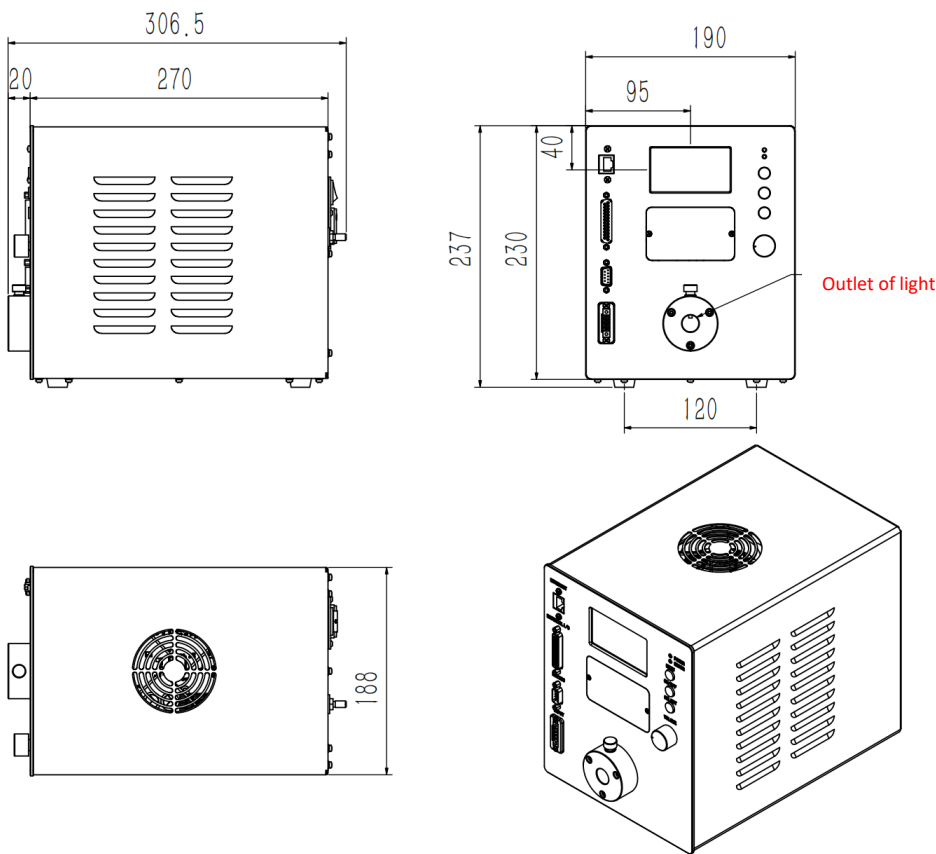
- 1024-level linear dimming (10-bit: 1024 levels/ 8-bit: 256 levels), linear adjustment/ light quantity feedback calibration
- Constant and strobe illumination (internal and external trigger modes)
- Detachable optical connector and compatible with different fiber connectors.
- Illuminator menu、TCP/IP、I/O、RS232
- 6-color filter + 1 white light channel

Technical Data

Parameter	Min	Typical	Max	Remarks/Conditions
Optical Data				
light source		LD		
CCT	6600K	7100K	7600K	Illuminator output quantity
Ra		65		
Emission angle (full angle)		25°		
Modular luminous flux		15000lm		
Size of the spot on the focal plane		Φ 8mm		
Fiber backscatter value (20mm)		70 million Lux		After 2m, NA0.55, Φ 8mm fiber
Emitting color (7 colors)	W(white)、R(red)、G(green)、B(blue)、C(cyan)、M(magenta)、Y(yellow)			
Average lifespan		24000h		Stabilization time at 50% maximum light intensity
Electric Data				
Drive type		constant current drive		
Trigger response time		1 microsecond		
Input voltage	-10%	AC 220V	+10%	Customization acceptable
Power		290 W		Total power consumption
Current adjustment range	0.5A		3.2A	
Simulated dimming range	0		5V	
Start waiting setting (microseconds)	0000		9999	
Illumination time setting (microseconds)	0001		9999	
Cycle setting (microseconds)	00002		99999	

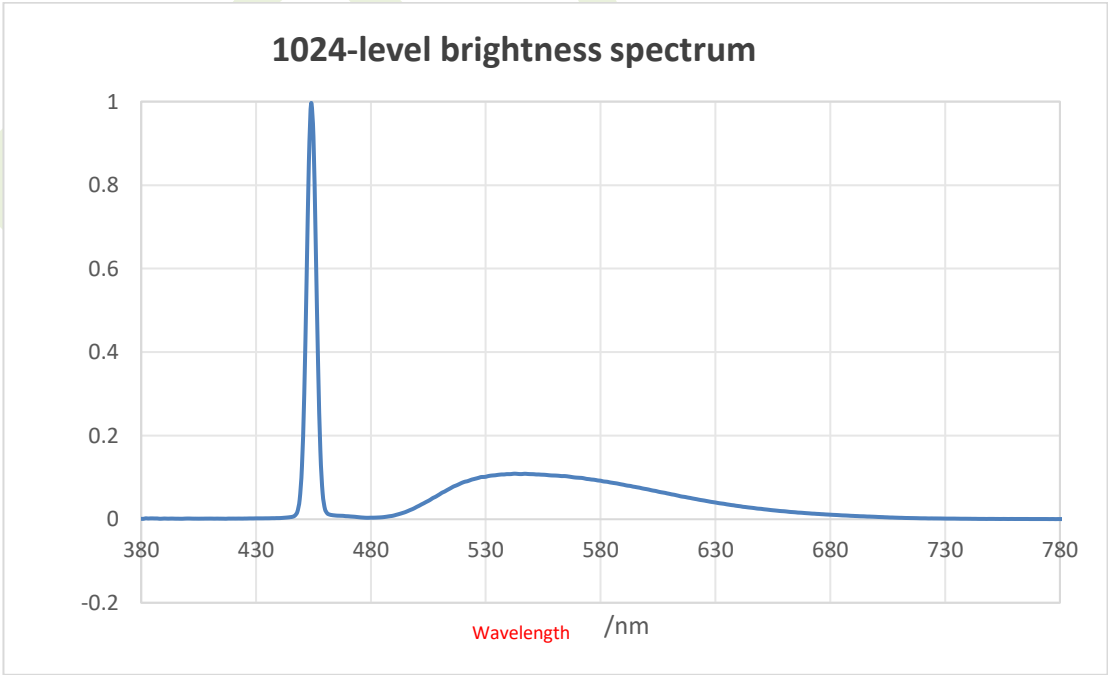
External trigger filter value (microseconds)	0		50	
Dimensions and Weight				
Dimensions		As drawing		
Weight		6.5KG		Illuminator weight
Accessories	fliter×6、Filter mounting bracket×6、 power cord×1			
Conditions				
Working temperature	-10℃		30℃	
Relative humidity			95%	
Transportation and storage	-20℃		80℃	
compliances				
IEC 61000-4-2:2008	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test			
IEC 61000-4-3:2020	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test			
EN 55011:2016+A2:2021	Industrial, scientific and medical equipment - Radio-frequency disturbance			
IEC 62321-3-1:2013	RoHS			
IEC 62321-4:2013+AMD1:2017				
IEC 62321-5:2013				
IEC 62321-6:2013				
IEC 62321-7-1:2015				
IEC 62321-7-2:2017				
IEC 62321-8:2017				

Dimensions of illuminator:

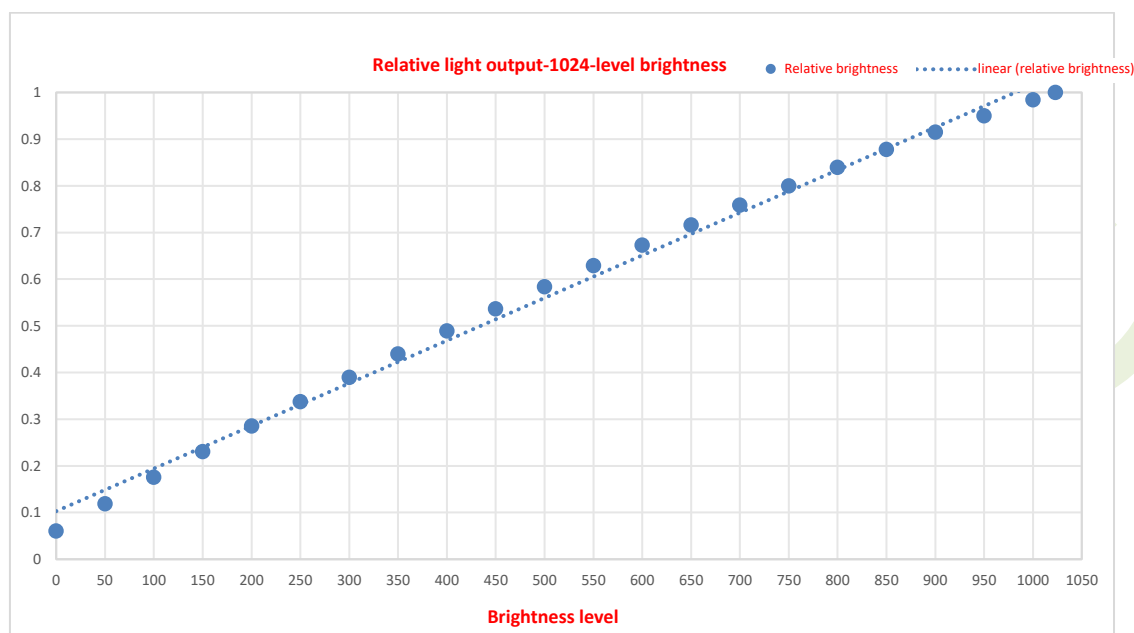


Finished Products Tolerance		
Dimension	Linear tolerance	Angle tolerance
0-50	±0.5	±1°
51-100	±0.8	
101-150	±1.0	
151-200	±1.2	
201-	±2.0	

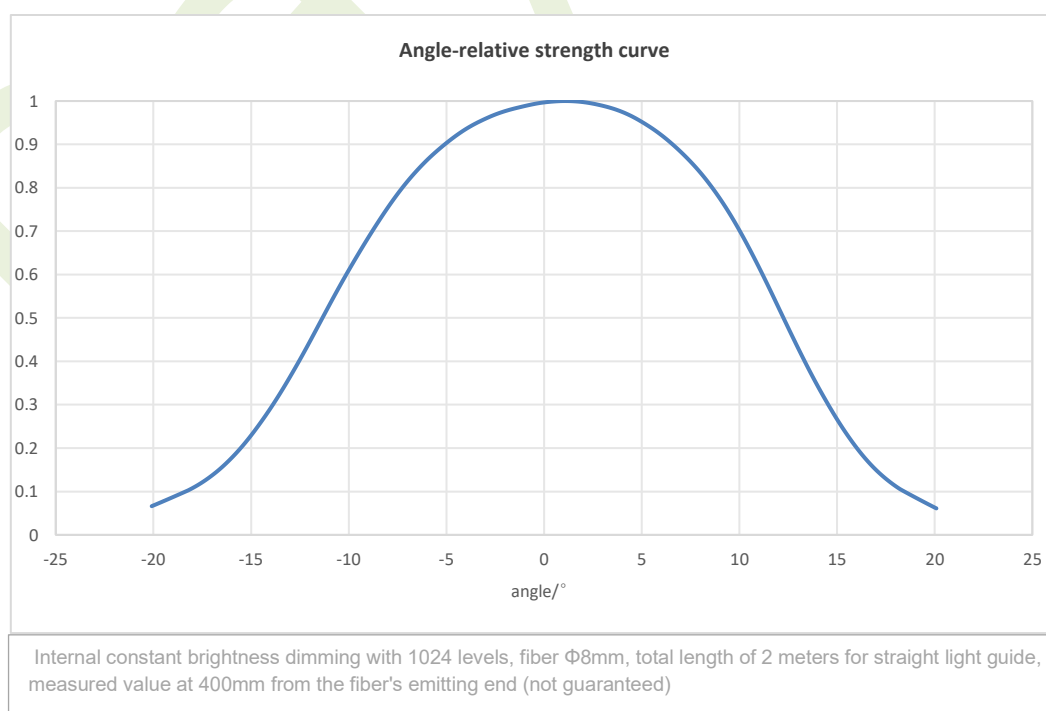
Spectrum:



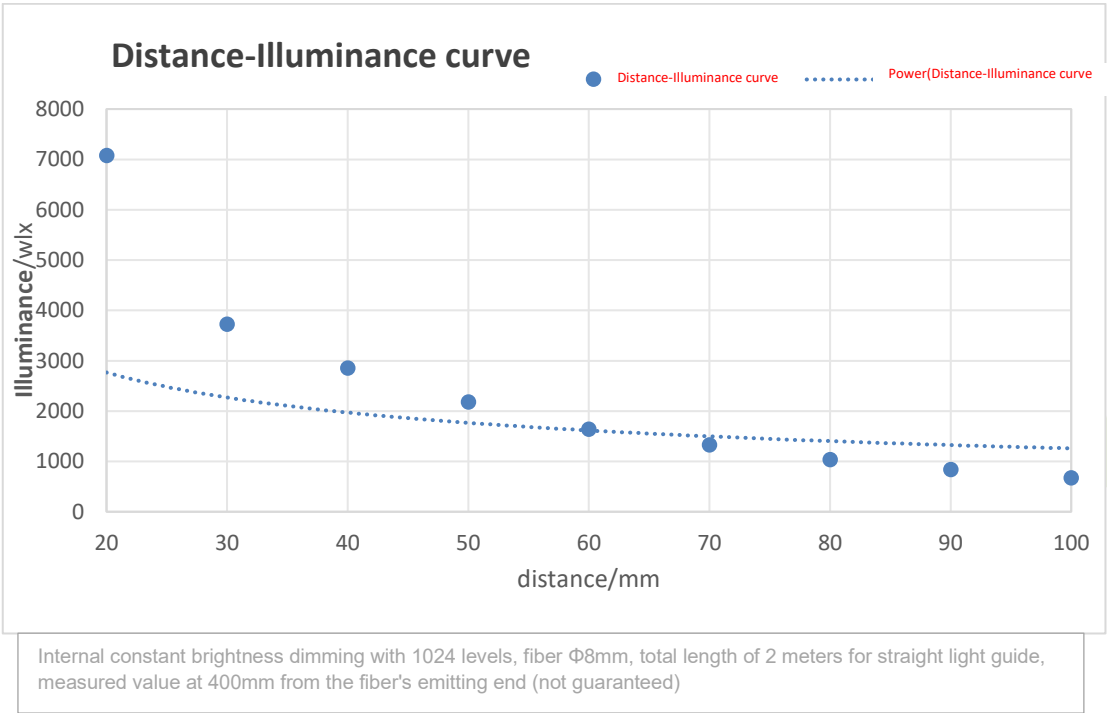
1024-level dimming linear curve:



Optical distribution characteristics of fiber outlet



Illuminance variation curve with distance exponentiation



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