

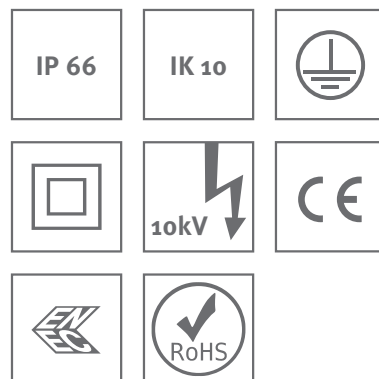
# OMNIflood



## The versatility to light all types of public and professional environments

The aesthetic design of the OMNIflood, in combination with a wide range of sizes, optical and mounting options, make it very versatile and thus the perfect choice for lighting recreational sports areas, industrial areas, campuses, business parks, car parks, building facades and billboards.

The OMNIflood is the ideal tool to replace a range of floodlights equipped with traditional discharge lamps of 50 to 400W.



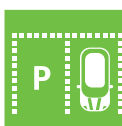
ARENA



WAREHOUSE



INDUSTRIAL HALL



CAR AND LORRY PARK



TRAIN OR METRO STATION



URBAN ROAD



NARROW ROAD



FAÇADE



BRIDGE



TUNNEL AND UNDERPASS



## CONCEPT

The OMNIflood range combines the energy efficiency of LED technology with the photometric performance of the LensoFlex®2 and BlastFlex™ concepts developed by Schröder. These floodlights are composed of a two-piece housing made of painted die-cast aluminium. The protector in glass is sealed onto the front cover. Mounting by means of a fork enables the inclination to be adjusted precisely on-site.

### Two sizes for all applications

- OMNIflood 1 with 16 LEDs
- OMNIflood 3 with 72 LEDs.

The two sizes of the OMNIflood range and its photometric versatility make it perfect for various lighting applications: sport (indoor and outdoor recreational venues), architectural (lighting for facades and monuments), ambiance (squares, parks, pedestrian areas...), or roads (car parks, shopping centres, underpasses, industrial areas etc.).



Tilt settings from -30° to +30°



Cooling fins for an optimised thermal management



BlastFlex™ photometric engines for applications requiring very directional beams

## TYPES OF APPLICATION

- Recreational sports venue
- Tunnel and underpass
- Industrial hall
- Bridge
- Car and lorry park
- Bike path
- Urban road and street
- Monument and facade
- Park
- Railway station and metro

## KEY ADVANTAGES

- One-to-one replacement for 50W to 400W HID floodlights
- One design for aesthetic consistency in multi-purpose applications
- High energy savings compared to systems with traditional discharge lamps
- Dimmable for even more energy savings
- Compatible with Schröder's indoor, outdoor and tunnel remote management systems
- Precise light control with LensoFlex®2 and BlastFlex™ photometric engines
- FutureProof: easy replacement of the photometric engine and electronic assembly on-site



Adapter for post-top mounting on Ø60 or 76mm spigot



## LensoFlex®2

LensoFlex®2 is based upon the addition principle of photometric distribution. Each LED is associated with a specific PMMA lens that generates the complete photometric distribution of the luminaire. It is the number of LEDs in combination with the driving current that determines the intensity level of the light distribution.

The proven LensoFlex®2 concept includes a glass protector to seal the LEDs and lenses into the luminaire body.



## BlastFlex™

Using silicon collimators, the BlastFlex™ photometric engine offers the highest efficacy for directional beams dedicated to specific applications in architectural and sports lighting.

The ability to control the light with the highest accuracy reduces the light spill in the surroundings and contributes to an optimal use of the energy consumed.

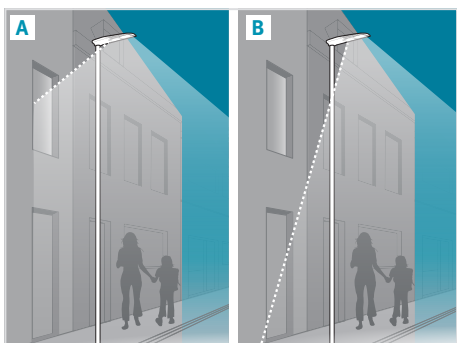
Thanks to a superior thermal resistance, the BlastFlex™ optics can work with very high currents to provide large lumen packages and do not suffer from the yellowing effect over time.



## Back Light control

As an option, the LensoFlex®2 modules can be equipped with a Back Light control system.

This additional feature minimises light spill from the back of the luminaire to avoid intrusive light towards buildings.

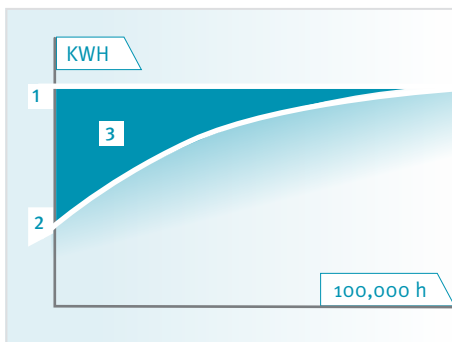


A. Without Back Light control | B. With Back Light control



### Constant Light Output (CLO)

This system compensates for the depreciation of luminous flux to avoid excess lighting at the beginning of the installation's service life. The luminous depreciation that takes place over time must be taken into account to ensure a predefined lighting level during the luminaire's useful life. Without a CLO feature, this simply means increasing the initial power upon installation in order to make up for luminous depreciation. By precisely controlling the luminous flux, one can control the energy needed to reach the required level - no more, and no less - throughout the luminaire's life.

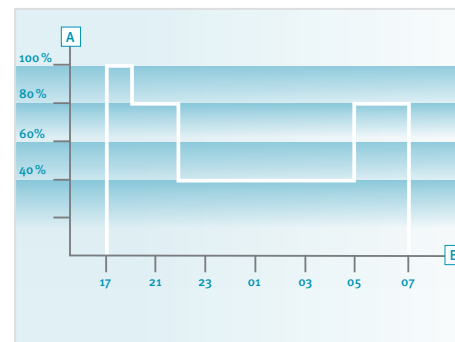


1. Standard lighting level
2. LED lighting consumption with CLO
3. Energy savings



### Custom dimming profile

Intelligent luminaire drivers can be programmed in the factory with complex dimming profiles. Up to 5 combinations of time intervals and light levels are possible. This feature does not require any extra wiring. The period between switching on and switching off is used to activate the preset dimming profile. The customised dimming system generates maximum energy savings while respecting the required lighting levels and uniformity throughout the night.



- A. Performance
- B. Time



## GENERAL INFORMATION

Recommended installation height	4m to 12m   13' to 40'
FutureProof	Easy replacement of the photometric engine and electronic assembly on-site
Driver included	Yes
CE mark	Yes
ENEC certified	Yes
ROHS compliant	Yes
Testing standard	LM 79-80 (all measurements in ISO17025 accredited laboratory)

## HOUSING AND FINISH

Housing	High-pressure die-cast aluminium
Optic	PMMA (LensoFlex®2) Silicon (BlastFlex™)
Protector	5mm thick tempered glass
Housing finish	Polyester powder coating
Colour	AZO grey 900 sanded Any other RAL or AKZO colour upon request
Tightness level	IP 66
Impact resistance	IK 10
Vibration test	ANSI 3G / IEC norm
Access for maintenance	Door with screws enables access to the photometrical engine and electronic compartment

## DIMENSIONS AND MOUNTING

AxBxC (mm   inch)	<b>OMNiflood 1</b> – 500x311x72   19.7x12.2x2.8 <b>OMNiflood 3</b> – 546x475x88   21.5x18.7x3.5
Weight (kg   lbs)	<b>OMNiflood 1</b> – 9   19.8 <b>OMNiflood 3</b> – 18.4   40.6
Aerodynamic resistance (CxS at 90° - wind 210km/h)	<b>OMNiflood 1</b> – 0.151 <b>OMNiflood 3</b> – 0.255
Standard mounting	Fork enabling adjustable inclination on-site
Optional mounting	Post-top adaptor Ø60 or 76mm (2" or 3")

## ELECTRICAL INFORMATION

Electrical class	EU class I or II
Nominal voltage	220-240V – 50-60Hz
Power factor	> 90% at full load
Surge protection	10kV/10kA
Electromagnetic compatibility (EMC)	EN 55015 / EN 61000-3-2, -3 / EN 61000-4-2, -3, -4, -5, -6, -11
Control options	No dimming, DALI or 0-10V

## OPTICAL INFORMATION

LEDs colour temperature	3000K (Warm white) 4000K (Neutral white)
Colour rendering index (CRI)	> 70
Upward Light Output Ratio (ULOR)	0%

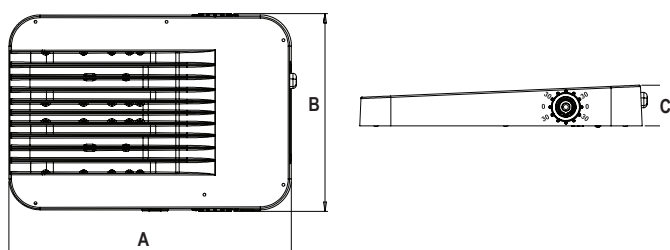
## OPERATING CONDITIONS

Operating temperature range (Ta)	-30 °C up to +55 °C <sup>(*)</sup> -22 ° F up to 131 ° F <sup>(*)</sup>
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<sup>(\*)</sup> Depending on the luminaire inclination and driving current.  
For more details, please contact us.

## LIFETIME OF THE LEDS @ TQ 25°C

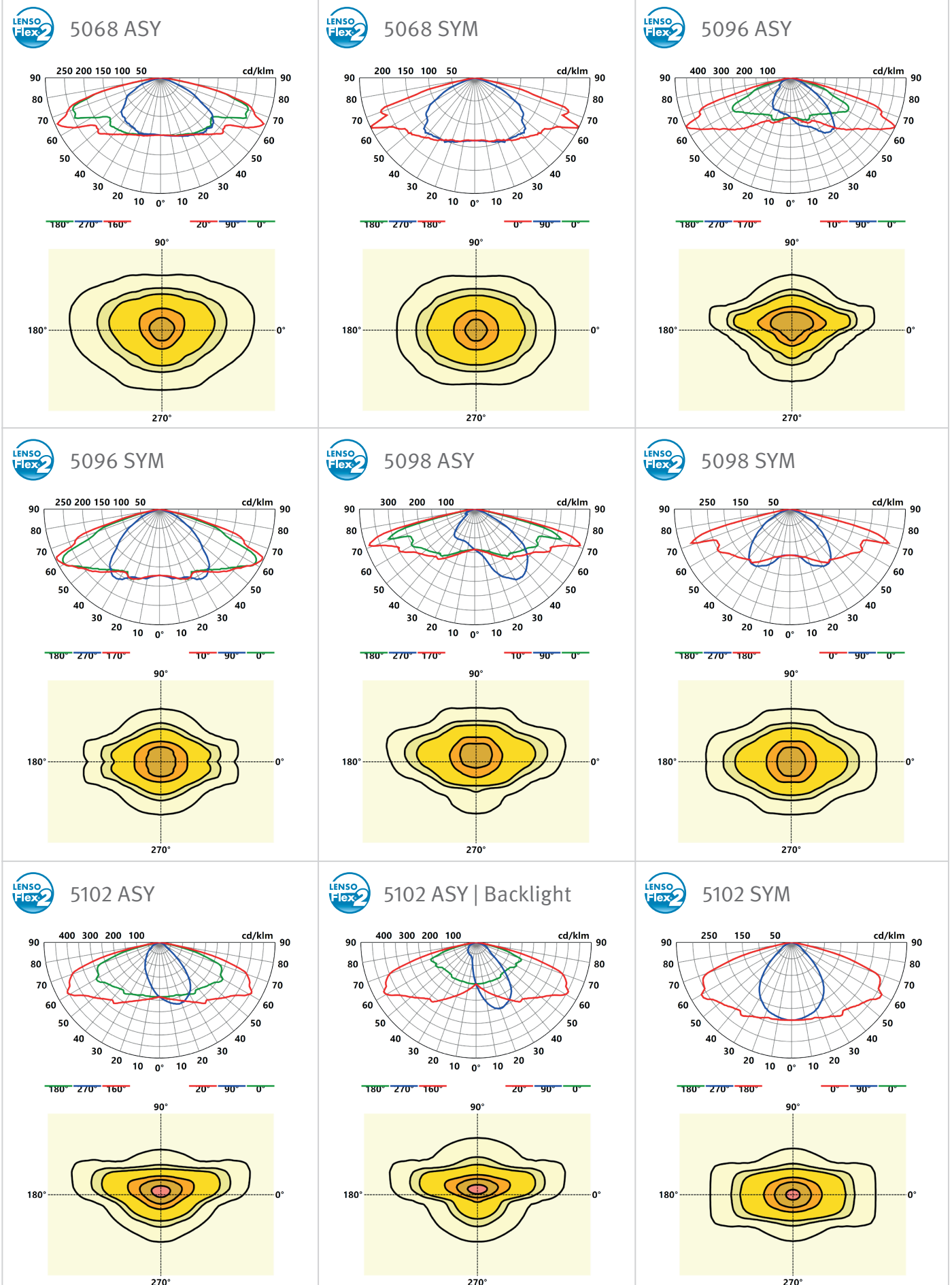
Up to 700mA	100,000h – L90
From 701mA up to 1A	37,000h – L90 81,000h – L80 130,000h – L70

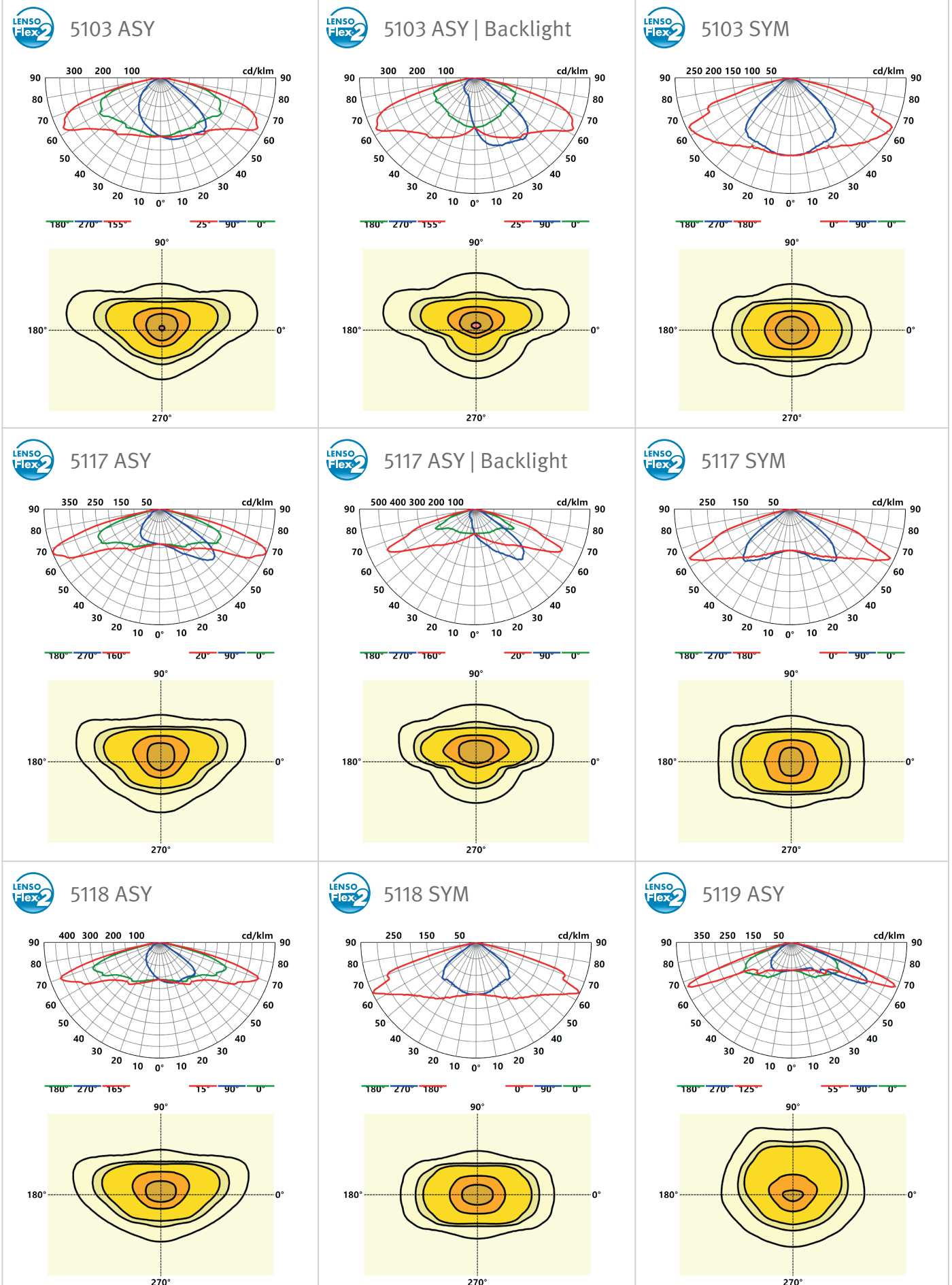




Luminaire	Number of LEDs	Current (mA)	Luminaire output flux (lm) Neutral White (4000K) - CRI 70		Luminaire output flux (lm) Warm White (3000K) - CRI 70		Power consumption (W)		Luminaire efficacy (lm/W)	Photometries
			Min	Max	Min	Max	Min	Max		
OMNIflood 1	16	1000	3900	5300	3600	4700	54	54	98	 
	72	700	14300	18900	13200	16100	157	157	121	 
OMNIflood 3	72	1000	22800	25100	-	-	224	224	112	

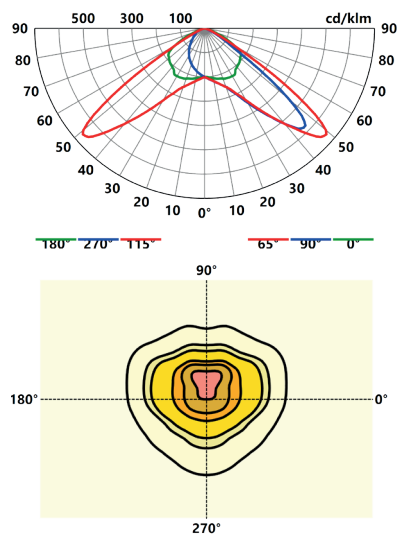
Tolerance on LED flux is  $\pm 7\%$  and on total luminaire power  $\pm 5\%$ .



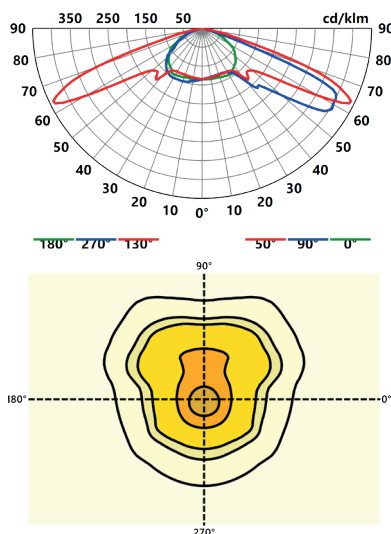




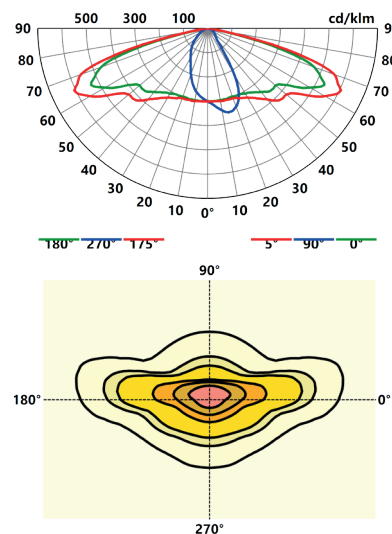
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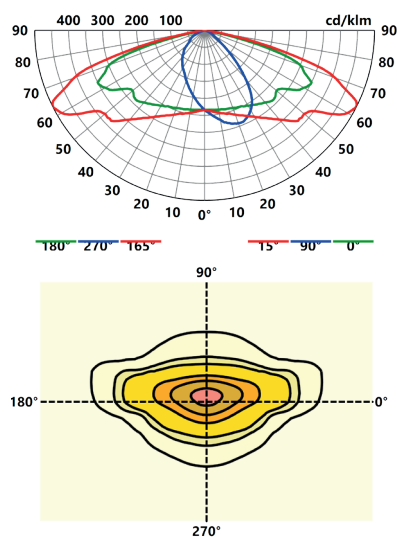
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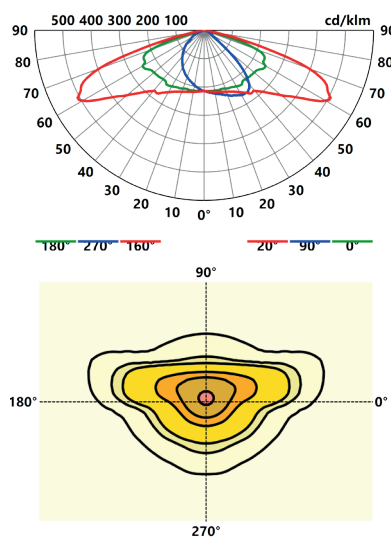
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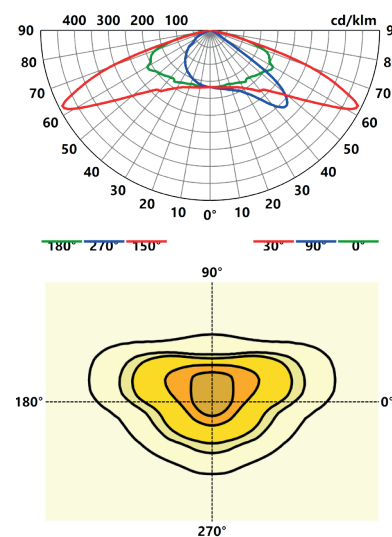
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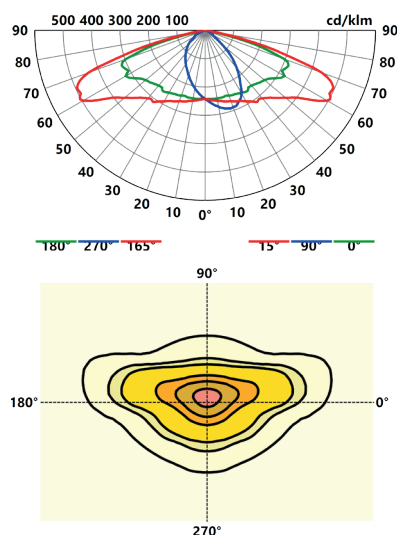
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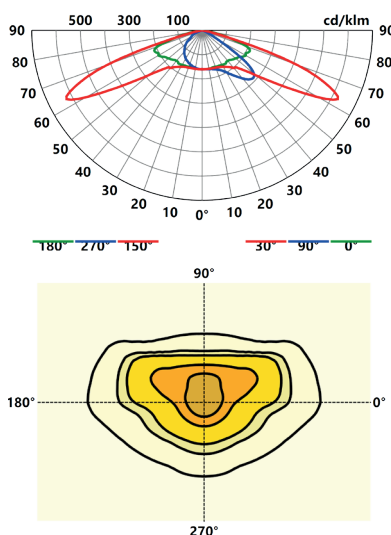
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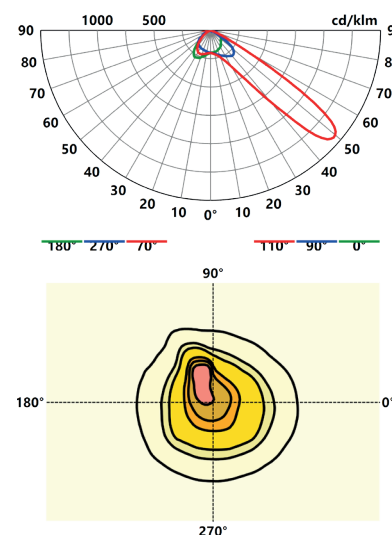
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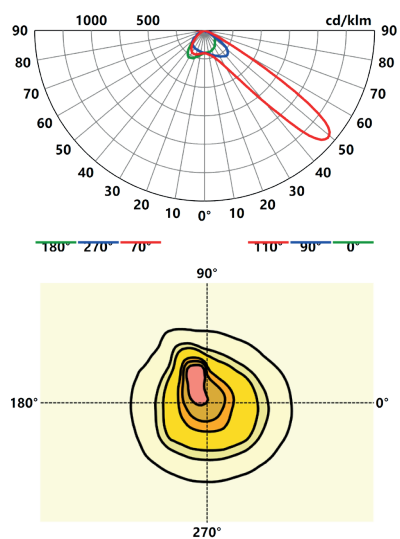
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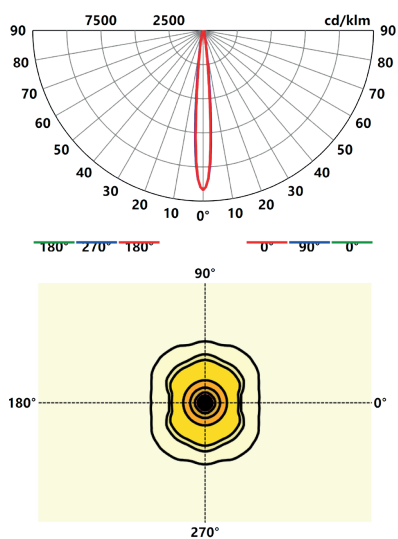




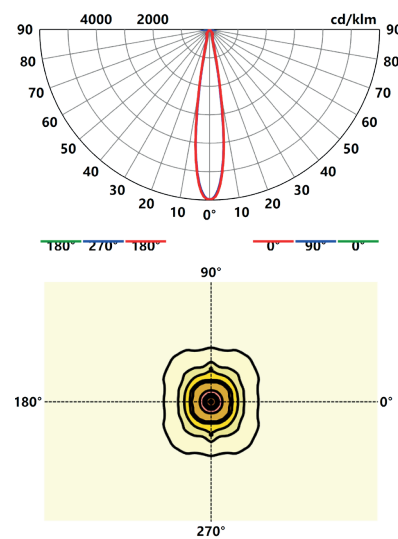
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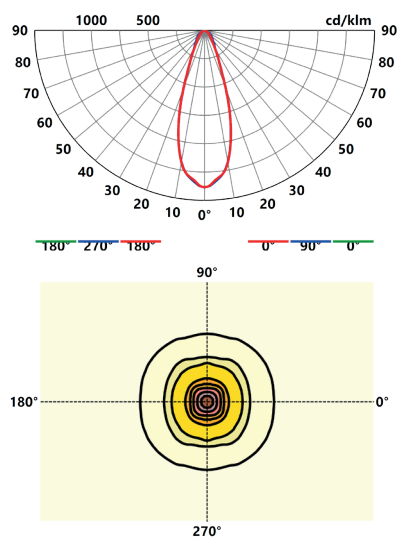
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