

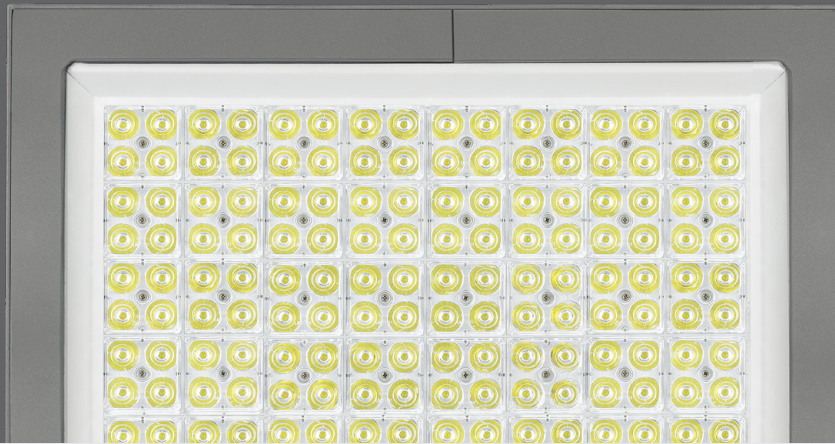


THOR

Projectors



Thor projectors deliver a versatile and adaptable lighting solution engineered to address a broad spectrum of optical requirements across various applications. Featuring multiple optical configurations, these projectors minimize light loss and glare while offering enhanced flexibility through specialized accessories and customizable light control components. Available in a range of power ratings, Thor projectors are suitable for environments ranging from expansive public spaces to intimate residential gardens. Built for durability, Thor projectors comply with international certifications, ensuring consistent high-quality performance and longevity. Their corrosion-resistant construction enables reliable operation even under harsh environmental conditions, making them a trusted choice for diverse projects worldwide.



OPTICAL DIVERSITY

The Thor projectors are engineered to address the varied optical demands across a wide range of applications. LITPA offers a comprehensive selection of optical solutions tailored to deliver optimal lighting performance specific to each use case. The Thor series features a broad spectrum of optical configurations—from very narrow-angle lenses to asymmetrical optics—designed to minimize light loss and reduce glare. For specialized requirements, standard optical accessories such as light cutters and precision light guidance components are available. Moreover, project-specific custom light control elements can be integrated, providing maximum flexibility and adaptability to meet unique lighting challenges.

PROJECTOR FEATURES

The Thor projector series provides a versatile power and optical range suitable for diverse environments. Power options span from high-output models like 750W, ideal for illuminating large-scale areas such as squares and ports, down to lower wattages like 50W, perfect for residential garden lighting. To enhance usability, these power variants come in five distinct structural designs, optimized for weight, size, handling ease, and cost-effectiveness, offering users tailored solutions. Additionally, the series supports multiple application modes, each delivering specific benefits across different lighting scenarios, enabling users to select the most appropriate configuration based on project requirements.

INTERNATIONAL QUALITY

Manufactured for durability, Thor projectors are designed to withstand challenging environmental conditions over extended periods. They are certified with ENEC by German TÜV, hold TSE certificates, and comply with CE standards and RoHS directives. All materials and components carry ENEC certification, ensuring compliance with European quality norms. To enhance corrosion resistance, the projector bodies undergo a chromating treatment process. These robust certifications and manufacturing standards guarantee that Thor projectors deliver reliable, long-lasting performance in diverse international applications—ranging from harsh desert climates to marine port environments—meeting the highest benchmarks for quality and endurance.



THOR SYMMETRICAL



THOR ASYMMETRICAL

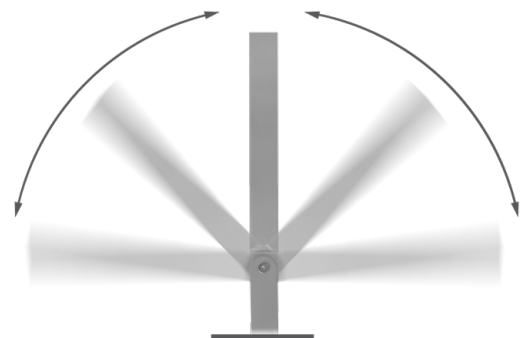
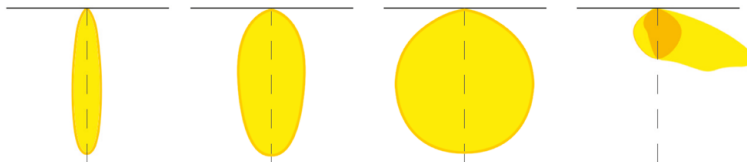
OPTICAL MANAGEMENT

The Thor projectors offer a variety of standard optical options, including very narrow-angle, medium-angle, wide-angle, very wide-angle, and asymmetric light distributions. These configurations provide a robust foundation to address diverse lighting needs. Beyond these standard options, the Thor series supports integration with various light control elements, enhancing its adaptability.

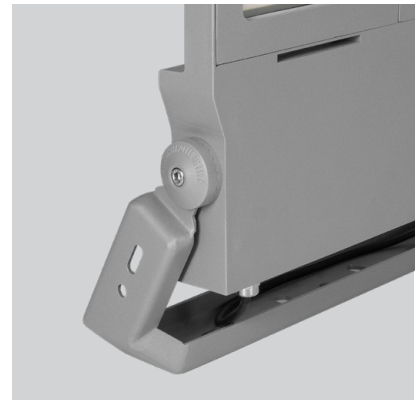
For specialized optical requirements or unique project demands, Litpa is dedicated to developing customized solutions within the Thor series. This commitment ensures that each lighting installation can be precisely tailored, delivering versatile and effective illumination across a broad range of applications. Litpa's focus on meeting specific optical challenges underscores its promise to provide optimal lighting performance tailored to the unique needs of every project.

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LIGHT DISTRIBUTIONS



The Thor projectors feature a mounting bracket with multiple alternative options, enabling versatile installation configurations. Additionally, the projectors can tilt 90 degrees in both directions, offering enhanced flexibility and ease in positioning during installation.



THOR SECURITY

Safety is a top priority for Litpa, and comprehensive precautions have been systematically implemented to minimize potential accidents, equipment damage, or injuries—particularly during the assembly, maintenance, or disassembly of heavier projector models. A key safety feature is the inclusion of a security chain. The safety chain provided with Thor XL and Thor L projectors plays a crucial role in protecting personnel and the surrounding environment during installation and removal. This additional safety measure ensures a secure and controlled process, significantly reducing the risk of accidents and promoting a safe working environment for all involved.

THERMAL MANAGEMENT

Effective thermal management is critical in high-power projectors, where efficient heat dissipation from LEDs is vital. Litpa addresses this challenge through several measures, beginning with the selection of high-efficiency LEDs featuring low resistance values for the Thor series. These LEDs are mounted on W3 PCBs with very high thermal conductivity, ensuring optimal heat transfer from the LEDs to the projector body. To optimize heat transfer to the housing, Snapsil™ 800 silicone thermal interface material is applied. This careful combination of materials and design ensures heat is effectively dispersed into the environment through engineered cooling channels.

ADDITIONAL FEATURES

Litpa has incorporated user-friendly features in the design of Thor projectors to facilitate ease of use. An angle scale is integrated into the projector body, allowing users to accurately set the desired tilt angle during installation without requiring additional tools. In some applications, it may be necessary to completely block light emission beyond certain angles to minimize light pollution. To meet this requirement, Litpa offers specifically designed light blockers for Thor projectors. These can be easily mounted when needed, giving users flexibility to control and customize the light distribution according to project-specific needs.



QUALITY POLICY

Litpa is committed to manufacturing products with a strong emphasis on durability, ensuring long-term reliability for its customers. To achieve this, every material used in Litpa fixtures—from the simplest screw to the most complex components—is carefully selected and rigorously tested. In addition, all luminaires undergo comprehensive quality control and testing procedures, which extend beyond standard evaluations to include specialized assessments such as high-temperature resistance and performance under unstable or “dirty” electrical networks. This unwavering dedication to quality and reliability is further validated by international certifications. Notably, Thor projectors are certified by the German TÜV and carry the ENEC certificate (applicable to the Thor XL model), confirming compliance with stringent standards for safety, performance, and longevity.

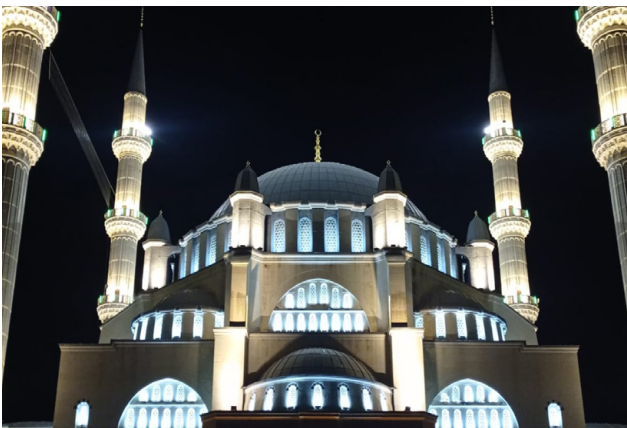


PORT AND APRON LIGHTING

The Thor series projectors are extensively deployed in ports and airports, emphasizing robust resistance to severe corrosion and harsh environmental conditions. The aluminum injection-molded bodies undergo a comprehensive cathaphoresis treatment, followed by an electrostatic powder coating specifically engineered to withstand the aggressive external environments typical of maritime and airport settings. This advanced coating process effectively prevents corrosion, enabling the luminaires to successfully pass rigorous Salt Spray Tests, thereby demonstrating their durability in maritime applications. For port lighting, the Thor series offers a diverse range

of products, including high-power, very narrow-angle luminaires such as 750W and 620W models, designed for installation on very high masts or cranes. Medium and wide-angle luminaires are also available to ensure uniform and comprehensive illumination of intermediate port areas.

In airport apron lighting, Thor projectors are critical components. Specialized projectors equipped with asymmetric reflectors are utilized to reduce glare while delivering the required luminance levels. When necessary, additional light blockers can be mounted to further minimize glare, enhancing pilot visibility and surpassing international optical standards.



DECORATIVE FACADE LIGHTING

Thor series projectors are widely utilized for façade lighting in numerous projects. Their advanced optical designs, versatile power configurations, and superior build quality make them a preferred choice for architectural illumination applications.

SPORTS FIELDS

The Thor projector series is highly versatile, making it suitable for a wide range of facilities—from stadium lighting to mini football fields. In particular, the 750W Thor projectors offer an extensive selection of optical options, ranging from very narrow-angle to very wide-angle lenses, making them an ideal choice for stadium lighting solutions. When used in stadium applications, important factors such as the facility's structural characteristics and potential weight constraints at luminaire mounting points are carefully considered, with recommended electrical alternatives

provided to address these challenges. The Thor projectors are also ideally suited for professional facilities such as tennis courts, where precise illumination levels and high-quality lighting are essential. Customized solutions are available for professional courts, training facilities, as well as neighborhood or mini football fields. These durable, energy-efficient, and cost-effective lighting solutions not only reduce initial investment costs but also deliver long-term benefits, ensuring reliable and effective illumination across various types of sports venues.



RAL COLORS

- Std. 9007
- Opt. 9005
- 9006
- 7016
- 9016



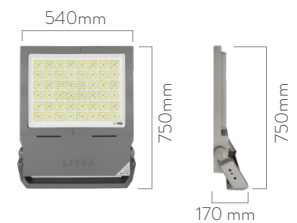
THOR XL

Code	Beam Angle	Luminous Flux	System Power	Weight
KYH/XL/750/NB	10°	86.000 lm	750W	28kg
KYH/XL/750/ MB	40°	88.000 lm	750W	28kg
KYH/XL/750/WB	60°	89.000 lm	750W	28kg
KYH/XL/750/VWB	90°	92.000 lm	750W	28kg
KYH/XL/720/ASYM	ASYM	78.150 lm	720W	28kg
KYH/XL/625/NB	10°	75.500 lm	625W	28kg
KYH/XL/625/MB	40°	77.450 lm	625W	28kg
KYH/XL/625/WB	60°	78.450 lm	625W	28kg
KYH/XL/625/VWB	90°	79.650 lm	625W	28kg
KYH/XL/625/ASYM	ASYM	72.000 lm	625W	28kg

Body: Aluminum Injection
Driver: Included
Led: Super High-Power Led

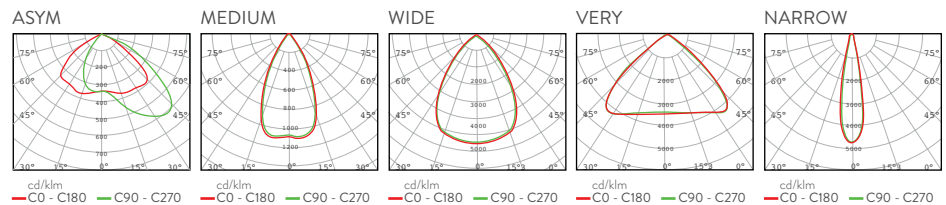
Lens: PMMA
Voltage: 220~240VAC

Color Temperature: 3000K-4000K-5000K
Front Glass: 5mm thick tempered glass
Safety Accessory: Carbine Hooks Chain (923g)



BOX DIMENSIONS
83x61x13,5 cm

BOX WEIGHT
29 kg





RAL COLORS

- Std. 9007
- Opt. 9005
- 9006
- 7016
- 9016

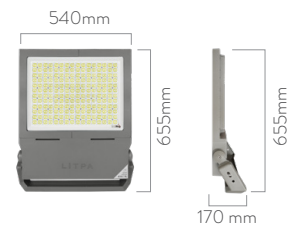
THOR L



Code	Beam Angle	Luminous Flux	System Power	Weight
KYH/L/550/NB	10°	67.000 lm	550W	28kg
KYH/L/550/MB	40°	69.350 lm	550W	28kg
KYH/L/550/WB	60°	70.400 lm	550W	28kg
KYH/L/550/VWB	90°	75.200 lm	550W	28kg
KYH/L/550/ASYM	ASYM	64.000lm	550W	28kg
KYH/L/475/NB	10°	58.150 lm	475W	26,9kg
KYH/L/475/MB	40°	60.900 lm	475W	26,9kg
KYH/L/475/WB	60°	59.600 lm	475W	26,9kg
KYH/L/475/VWB	90°	63.100 lm	475W	26,9kg
KYH/L/475/ASYM	ASYM	57.000 lm	475W	26,9kg
KYH/L/400/NB	10°	51.600 lm	400W	26,3kg
KYH/L/400/MB	40°	53.000 lm	400W	26,3kg
KYH/L/400/WB	60°	52.400 lm	400W	26,3kg
KYH/L/400/VWB	90°	55.000 lm	400W	26,3kg
KYH/L/400/ASYM	ASYM	49.800 lm	400W	26,3kg
KYH/L/325/NB	10°	43.650 lm	325W	26,3kg
KYH/L/325/MB	40°	45.100 lm	325W	26,3kg
KYH/L/325/WB	60°	45.300 lm	325W	26,3kg
KYH/L/325/VWB	90°	48.100 lm	325W	26,3kg
KYH/L/325/ASYM	ASYM	42.500 lm	325W	26,3kg

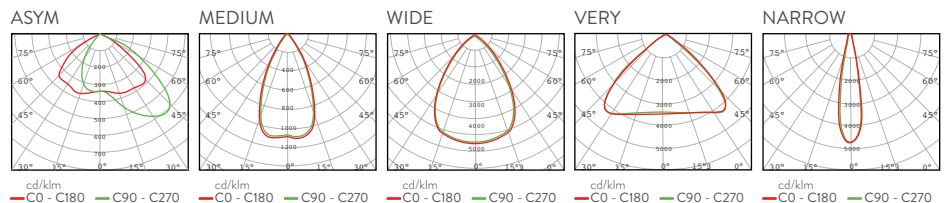
Body: Aluminum Injection
Driver: Included
Led: High-Power
Lens: PMMA
Voltage: 220~240VAC

Color Temperature: 3000K-4000K-5000K
Front Glass: 5mm thick tempered glass
Safety Accessory: Carbine Hooks Chain (923g)



 **BOX DIMENSIONS**
83x61x13,5 cm

 **BOX WEIGHT**
29 kg



RAL COLORS

- Std. 9007
- Opt. 9005
- 9006
- 7016
- 9016



THOR MAXI



Code	Beam Angle	Luminous Flux	System Power	Weight
KYH/MX/275/NB	30°	32.500 lm	275W	6.8 kg
KYH/MX/275/WB	60°	33.700 lm	275W	6.8 kg
KYH/MX/275/VWB	110°	34.500 lm	275W	6.8 kg
KYH/MX/275/ASYM	Asymmetrical	32.080 lm	275W	6.8 kg
KYH/MX/240/NB	30°	28.900 lm	240W	6.8 kg
KYH/MX/240/WB	60°	29.950 lm	240W	6.8 kg
KYH/MX/240/VWB	110°	30.720 lm	240W	6.8 kg
KYH/MX/240/ASYM	Asymmetrical	29.100 lm	240W	6.8 kg
KYH/MX/225/NB	30°	25.800 lm	225W	6.8 kg
KYH/MX/225/WB	60°	27.000 lm	225W	6.8 kg
KYH/MX/225/VWB	110°	27.500 lm	225W	6.8 kg
KYH/MX/225/ASYM	Asymmetrical	25.000 lm	225W	6.8 kg
KYH/MX/200/NB	30°	22.500 lm	200W	6.8 kg
KYH/MX/200/WB	60°	24.200 lm	200W	6.8 kg
KYH/MX/200/VWB	110°	23.500 lm	200W	6.8 kg
KYH/MX/200/ASYM	Asymmetrical	20.300 lm	200W	6.8 kg
KYH/MX/175/NB	30°	20.300 lm	175W	6.8 kg
KYH/MX/175/WB	60°	21.500 lm	175W	6.8 kg
KYH/MX/175/VWB	110°	21.500lm	175W	6.8 kg
KYH/MX/175/ASYM	Asymmetrical	19.100 lm	175W	6.8 kg

Body: Aluminum Injection

Driver: Included

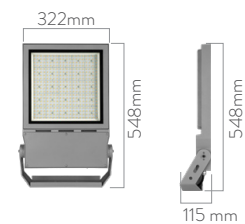
Color Temperature: 3000K-4000K-5000-6500K

Front Glass: 5mm Thick Tempered Glass

Led: Mid-Power

Lens: PMMA

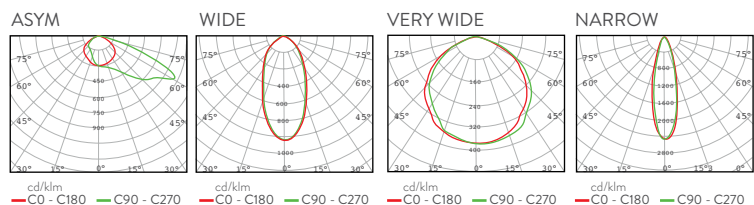
Voltage: 220~240VAC



BOX DIMENSIONS
54x34x5.5 cm



BOX WEIGHT
7 kg





RAL COLORS

- Std. 9007
- Opt. 9005
- 9006
- 7016
- 9016



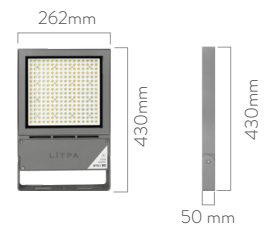
THOR MIDI


Code	Beam Angle	Luminous Flux	System Power	Weight
KYH/MD/150/NB	30°	18.500 lm	150W	4.94 kg
KYH/MD/150/WB	60°	19.600 lm	150W	4.94 kg
KYH/MD/150/VWD	110°	19.500 lm	150W	4.94 kg
KYH/MD/150/ASYM	Asymmetrical	17.200 lm	150W	4.94 kg
KYH/MD/100/NB	30°	13.000 lm	100W	4.72 kg
KYH/MD/100/WB	60°	13.500 lm	100W	4.72 kg
KYH/MD/100/VWD	110°	14.000 lm	100W	4.72 kg
KYH/MD/100/ASYM	Asymmetrical	13.000 lm	100W	4.72 kg


Body: Aluminum Injection
Driver: Included
Led: Mid-Power

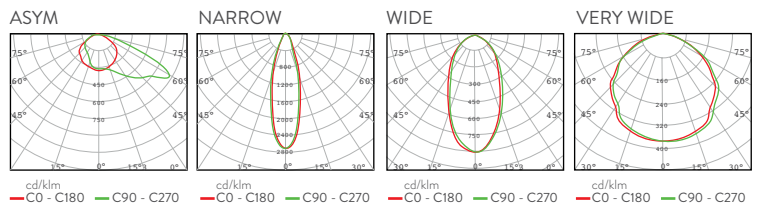
Lens: PMMA
Voltage: 220~240VAC

Color Temperature: 3000K-4000K-5000K
Front Glass: 5mm Thick Tempered Glass



 **BOX DIMENSIONS**
46.5x28x5.5 cm

 **BOX WEIGHT**
5.3 kg



RAL COLORS

- Std. 9007
- Opt. 9005
- 9006
- 7016
- 9016



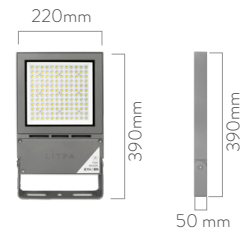
THOR MINI

Code	Beam Angle	Luminous Flux	System Power	Weight
KYH/MN/80/NB	30°	9.800 lm	80W	3.94 kg
KYH/MN/80/WB	60°	10.400 lm	80W	3.94 kg
KYH/MN/80/VWB	110°	10.200 lm	80W	3.94 kg
KYH/MN/80/ASYM	Asymmetrical	8.800 lm	80W	3.94 kg
KYH/MN/50/NB	30°	6.500 lm	50W	3.8 kg
KYH/MN/50/WB	60°	7.000 lm	50W	3.8 kg
KYH/MN/50/VWB	110°	7.200 lm	50W	3.8 kg
KYH/MN/50/ASYM	Asymmetrical	6.400 lm	50W	3.8 kg

Body: Aluminum Injection
Driver: Included
Led: Mid-Power

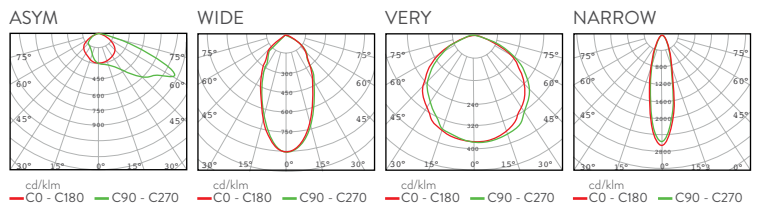
Lens: PMMA
Voltage: 220~240VAC

Color Temperature: 3000K-4000K-5000K
Front Glass: 5mm Thick Tempered Glass



BOX DIMENSIONS
41x24x5.5 cm

BOX WEIGHT
4.2 kg



THOR XL /THOR L
GENERAL

Color Temperature :	3000K - 6500K
Number of Drivers :	1 Piece
Optical Cover Type	PMMA
Protection Class IEC:	I Class
Light Source Type :	High-Power Led
CE Mark :	CE
Eu RoHS compliance:	Yes
Lumen maintenance in average lifetime :	50.000h
Led:	5 cm Hd 351 p
Protection Class:	IP66
Maximum Dimming Level	%8

Input Voltage :	220-240VAC
Input Frequency :	50-60 Hz.
Inrush Current :	50A
Power Factor (min.):	0,97 λ
Efficiency :	> %90
Total Harmonic Distortions :	< %5

APPLICATION CONDITIONS

Ambient Temperature Range :	-40 to +90 °C
Performance Ambient Temperature :	+90°C

MATERIAL INFORMATION

Body Material :	Al-E141
Mounting Material :	DKP
Optical Material :	PMMA
Optical Cover/Lens Material :	PMMA
Material Colour :	Gray & Black

CONTROL AND DIMMING

Dimmable :	Optional
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THOR MAXI / MIDI / MINI I GENERAL
GENERAL

Color Temperature :	3000K - 6500K
Number of Drivers :	1 Piece
Optical Cover Type	PMMA
Protection Class IEC:	I Class
Light Source Type :	Mid-Power Led
CE Mark :	CE
Eu RoHS compliance:	Yes
Lumen maintenance in average lifetime :	50.000h
Led:	5 cm Hd 351 p
Protection Class:	IP66
Maximum Dimming Level	%8

Input Voltage :	220-240VAC
Input Frequency :	50-60 Hz.
Inrush Current :	50A
Power Factor (min.):	0,97 λ
Efficiency :	> %90
Total Harmonic Distortions :	< %5

APPLICATION CONDITIONS

Ambient Temperature Range :	-40 to +90 °C
Performance Ambient Temperature :	+90°C

MATERIAL INFORMATION

Body Material :	Al-E141
Mounting Material :	DKP
Optical Material :	PMMA
Optical Cover/Lens Material :	PMMA
Material Colour :	Gray & Black

CONTROL AND DIMMING

Dimmable :	Optional
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