

QCML/ QCMLC

Waterproof LED Light Bars for
Multi-use with Protection of IP67/ IP69K



High seal and high waterproof light bars that can be used in high temperature wash down applications

Can select from a variety of light colors from cooldaylight, incandescent, amber and red color lights to fit your application needs



Common Specifications(QCML/ QCMLC)

- Side cover and lens is integrated together with a multi silicon rubber sealing structure for superior protection from water
- Aesthetically pleasing with slim and compact housing
- Polycarbonate material provides superior heat and shock resistance
- Features great seal and durability in food processing, pharmaceutical, and beverage processing machine that needs high temperature wash down
- Can select from light colors of Cooldaylight, warm white, amber and red color lights depending on your application needs such as semiconductor manufacturing equipment, machine tools and test equipment
- Can select between transparent lens type and translucent lens type depending on your application needs
- Detachable mounting bracket structure enables to adjust mounting hole space freely
- Protection rating : IP67, IP69K
- Can customize the product with the M12 connector if requested
- Certificates : CE Compliant, UL Listed



QCML Series Specifications

Lens Type	Length	Cooldaylight	Incandescent	Red	Amber
Translucent Lens					
	200mm	QCML-200-W	QCML-200-PY	QCML-200-R	QCML-200-A
	300mm	QCML-300-W	QCML-300-PY	QCML-300-R	QCML-300-A
	400mm	QCML-400-W	QCML-400-PY	QCML-400-R	QCML-400-A
	500mm	QCML-500-W	QCML-500-PY	QCML-500-R	QCML-500-A
	600mm	QCML-600-W	QCML-600-PY	QCML-600-R	QCML-600-A
	900mm	QCML-900-W	QCML-900-PY	QCML-900-R	QCML-900-A
	1,200mm	QCML-1200-W	QCML-1200-PY	QCML-1200-R	QCML-1200-A
	1,500mm	QCML-1500-W	QCML-1500-PY	QCML-1500-R	QCML-1500-A
Transparent Lens					
	200mm	QCMLC-200-W	QCMLC-200-PY	QCMLC-200-R	QCMLC-200-A
	300mm	QCMLC-300-W	QCMLC-300-PY	QCMLC-300-R	QCMLC-300-A
	400mm	QCMLC-400-W	QCMLC-400-PY	QCMLC-400-R	QCMLC-400-A
	500mm	QCMLC-500-W	QCMLC-500-PY	QCMLC-500-R	QCMLC-500-A
	600mm	QCMLC-600-W	QCMLC-600-PY	QCMLC-600-R	QCMLC-600-A
	900mm	QCMLC-900-W	QCMLC-900-PY	QCMLC-900-R	QCMLC-900-A
	1,200mm	QCMLC-1200-W	QCMLC-1200-PY	QCMLC-1200-R	QCMLC-1200-A
	1,500mm	QCMLC-1500-W	QCMLC-1500-PY	QCMLC-1500-R	QCMLC-1500-A
Features		<ul style="list-style-type: none"> • Bright and transparent color temperature that is most commonly used • Color temperature : 6,000-7,000K 	<ul style="list-style-type: none"> • Less eye fatigue with color temperature similar to incandescent lamp • Color temperature : 2,500-3,500K 	<ul style="list-style-type: none"> • Red color light for special use • Wavelength : 618nm-632nm 	<ul style="list-style-type: none"> • Amber color light for special use • Wavelength : 585nm-595nm
Applications		<ul style="list-style-type: none"> • Machine tools • Factory facilities • Image test • Panel boards 	<ul style="list-style-type: none"> • Food processing facilities • Cosmetics manufacturing facility • Pharmaceutical equipment and facilities • Chemical facilities 	<ul style="list-style-type: none"> • Semiconductor manufacturing equipment (in clean room) • Print and light exposure manufacturing facilities • Growing plants with artificial lights 	<ul style="list-style-type: none"> • Semiconductor manufacturing equipment • Testing equipment



QCML Translucent Lens Type



QCMLC Transparent Lens Type



Optics Specifications

Model	QCML-200/ QCMLC-200	QCML-300/ QCMLC-300	QCML-400/ QCMLC-400	QCML-500/ QCMLC-500	QCML-600/ QCMLC-600	QCML-900/ QCMLC-900	QCML-1200/ QCMLC-1200	QCML-1500/ QCMLC-1500
Lens color	Translucent/ Transparent	Translucent/ Transparent	Translucent/ Transparent	Translucent/ Transparent	Translucent/ Transparent	Translucent/ Transparent	Translucent/ Transparent	Translucent/ Transparent
Light color/ Color temperature	Cooldaylight	6,000-7,000K						
	Incandescent	2,500-3,500K						
	Red	618-632nm						
	Amber	585-632nm						
Luminous flux/ (Cooldaylight)	276lm/ 322lm	381lm/ 436lm	729lm/ 833lm	742lm/ 849lm	754lm/ 863lm	1,126lm/ 1,291lm	1,492lm/ 1,691lm	1,855lm/ 2,105lm
Efficacy (lm/W)/ (Cooldaylight)	85lux/ 100lux	130lux/ 155lux	200lux/ 245lux	210lux/ 250lux	250lux/ 295lux	380lux/ 430lux	500lux/ 560lux	550lux/ 600lux

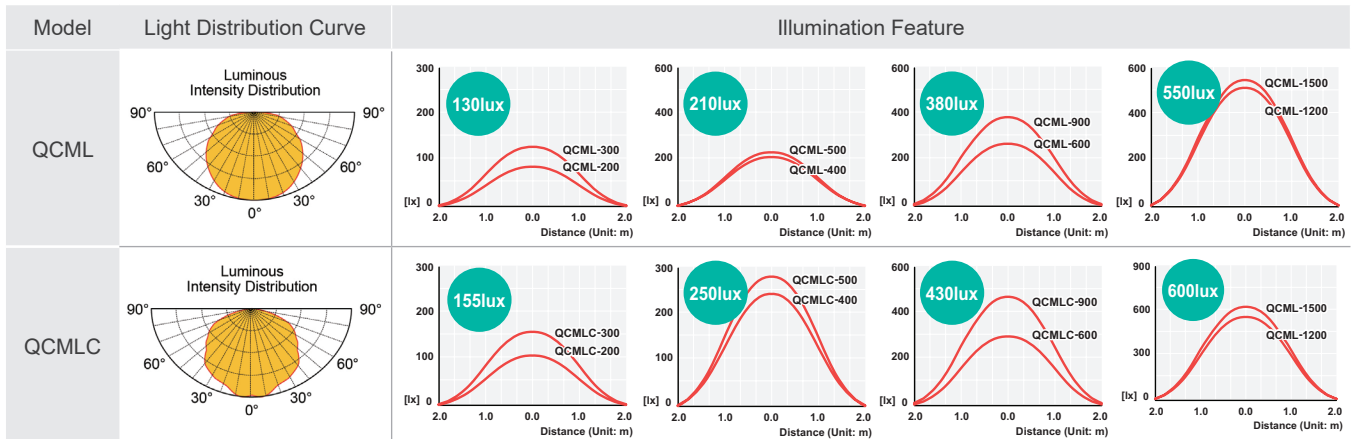
Specifications

Model	QCML-200/ QCMLC-200	QCML-300/ QCMLC-300	QCML-400/ QCMLC-400	QCML-500/ QCMLC-500	QCML-600/ QCMLC-600	QCML-900/ QCMLC-900	QCML-1200/ QCMLC-1200	QCML-1500/ QCMLC-1500
Voltage	DC24V							
Range for operation voltage	DC21.5V-26.5V							
Power consumption	5.5W	6W	11W	11.5W	12W	18W	23W	30W
Insulation resistance	Min. 100MΩ(500V DC mega ohm meter)							
Withstanding voltage	DC : 500V AC, 60Hz, 1 minute							
Operating temperature	-30°C to +50°C							
Protection rating	IP67/ IP69K							
Materials	Lens : PC, Side cover : PC, Heat sink : Al, Bracket : PC							
Certificate	CE DC24V only UL DC24V only							
Weight(Approx.)	0.16kg	0.20kg	0.26kg	0.33kg	0.40kg	0.56kg	0.76kg	0.94kg

QCML/ QCMLC

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Light Distribution and Illuminance

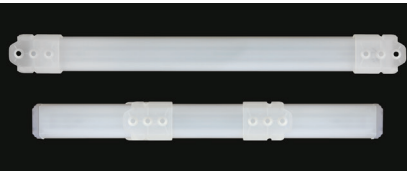


Mounting Structure



Example for
mounting outside

Example for
mounting inside



- ※ Adopts removable mounting bracket and sliding structure, adjustable mounting distance.
- ※ mounting bracket is arranged on edge or middle of body, in case of edge of body, mounting bracket space is kept.



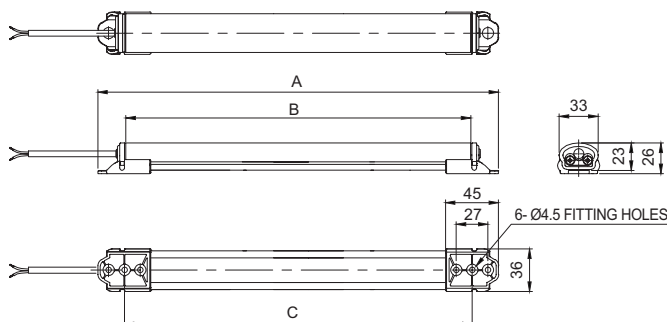
- ※ Cable end M12 connector attached type
Customized Cable end M12 connector attached type available.



Technical Diagram

(Units : mm)

QCML/ QCMLC-200/ 300/ 400/ 500/ 600/ 900/ 1200/ 1500



MODEL	A	B	C	D
QCML/ QCMLC-200	262	228	45~217	2
QCML/ QCMLC-300	362	328	45~317	2
QCML/ QCMLC-400	462	428	45~417	2
QCML/ QCMLC-500	562	528	45~517	2
QCML/ QCMLC-600	662	628	45~617	2
QCML/ QCMLC-900	962	928	45~917	3
QCML/ QCMLC-1200	1262	1228	45~1217	4
QCML/ QCMLC-1500	1562	1528	45~1517	4

※ D : Recommended quantity of mounting brackets

※ External power line - UL2464-AWG22(0.3sq×2C) 450mm



Ordering Specification

QCML	-	300	-	PY	-	24
[Model number]		[Product length]		[Light color]		[Voltage]
<ul style="list-style-type: none"> QCML : Translucent lens QCMLC : Transparent lens 		<ul style="list-style-type: none"> 200 - 228mm 300 - 328mm 400 - 428mm 500 - 528mm 		<ul style="list-style-type: none"> W-Cooldaylight PY-Incandilight R-Red A-Amber 		<ul style="list-style-type: none"> 24-DC24V