

INNOVATION in
ALARM & SIGNAL

Industrial LED Lights

CATALOG 2025



Signal Tower Lights
Signal Beacons and Sounders
Heavy-Duty and Explosion Proof Signalings
Warning Light Bars
Aviation Obstruction Lights
Smart Factory Product
Industrial LED Lights
Performance Line - E Series

Qlight

Qlight

Gives you a
Brighter
Future

Qlight Gives You a Brighter Future!

Qlight has been contributed to an industrial safety and efficiency by producing several audible/ visual signaling devices and industrial LED lights since its establishment in 1986. Our technology and quality are highly reputable among various industries for example semiconductor manufacturing equipment, automobile industry, unmanned automation facility, steel production facility, shipbuilding industry, offshore plant, specialized unit for petrochemical industry based on diverse technology patents and core technologies such as LED light source, heat radiation technology, explosion proof design. Our established local corporations in South Korea and China, sales branches in the United States, Japan, Vietnam, and a global service network provides a distribution and sales system servicing over 80 countries that help Qlight reinforces industrial fields all over the world.



Qlight is a representative of signaling device in Korea.

Qlight has been striving to accomplish our mission to provide visual and audible status indicating systems and solutions to enhance our customer's work safety and efficiency for the last three decades.
As a market leader, Qlight is going to accomplish our responsibility by introducing state of the art equipment and unmanned facilities.

1986 - 1995

Business foundation and consolidation

- 1986 Established Qlight
- 1993 Nominated for developing domestic explosion proof warning lights by Korean Ministry of Science & Technology

1996 - 2005

Growing as a signal transmission device specialist

- 2001 Established Shanghai Qlight Electronic Co., Ltd. in China



- 2004 ISO 9001:2000 certificates acquired

2006 - 2017

Mission device specialist A great leap forward & business reconstruction

- 2010 Established R&D Center
- 2011 Selected as a venture company
- 2011 Selected as an INNO-BIZ firm which is an innovative tech company
- 2014 Selected as a promising export company by Small and Medium Business Administration(SMBA)
- 2014 Established the Qlight USA, Inc. in San Jose, CA.
- 2016 The second headquarter factory built



History of Change & Innovation

2018 to Present

New engines for growth

2019 Established Qidong factory



2019 Selected as a family friendly
company by Ministry of
Gender Equality and Family

2020 Selected as a small giants
company by Small and
Medium Business Admin-
istration(SMBA)

2021 Selected as a youth-friendly
small giants company

2023 Selected as the best reading
management company
by the Ministry of Culture,
Sports and Tourism of Korea

The 2nd growth and globalization

Qlight, the best professional company

Leading the **improvement of industrial efficiency**

1 Aiming for the first-class

Aiming for the first-class specialized company to contribute industrial efficiency and safety of customer based on the core competency of System, Variety, and Hi-quality

35 Continuous growth for about 35 years

Based on a partnership-oriented corporate culture and sharing management, we have grown continuously for 35 years since our founding and are recognized for our quality and technology.

80 Global networks in 80 countries

Exporting to all over the world through global network spanning over 200 distribution channels in 80 countries and brightening industrial sites around the world

450 Multi-variety production

Satisfying various needs of customers through systematic customer-customized production system for over 450 products

Quick

Prompt customer satisfaction and real time enterprise(RTE)

Quality

Emphasis on product and service quality, workplace innovation and ethical management

Question

Problem oriented thinking and creative problem solving are based on achieving strategic task.

Qualified

The most suitable company that leads the innovation of signaling device technology and industrial efficiency improvement



Core Competency



System

Delicate mechanism of the work realizes shorter lead time by effectively managing over-all procedures such as purchasing, production, stock management, and distribution.



Broad-line

Customers are highly satisfied with Qlight products because we offer over 450 types of wide variety of product family with a systematic customized production system.



Supreme Quality

Qlight's technological capability and supremacy of quality are being recognized because of our strict technology standard and inspection system. We've obtained over 22 certificates such as IECEx, ATEX, NEPSI, CCS, CE, and UL. We've been expanding it in accordance with industrial demands.

How Qlight works















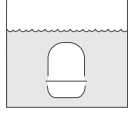



Waterproof and Dustproof Protection Structure

Comparing waterproof & dustproof protection structure

IP **6** **7**

IP rating _ Known as "Ingress Protection rating" indicated in two-digit code showing the amount of protection against solid and the liquid(IEC60529)

First Number Protection against solid		Second Number Protection against liquid	
0	 No protection	0	 No protection
1	 Protected against solid objects over 50mm, eg accidental touch by persons hands	1	 Protection against vertically falling drops of water eg condensation
2	 Protected against solid objects over 125mm, eg persons fingers	2	 Protection against direct sprays of water up to 15° from the vertical
3	 Protected against solid objects over 25mm (tools and wires)	3	 Protected against direct sprays of water up to 60° from the vertical
4	 Protected against solid objects over 1mm (tools, wires, and small wires)	4	 Protection against water sprayed from all directions - limited ingress permitted
5	 Protected against dust limited ingress (no harmful deposit)	5	 Protected against low pressure jets of water from all directions - limited ingress
6	 Totally protected against dust	6	 Protected against temporary flooding of water, eg for use on ship decks - limited ingress permitted
		7	 Protected against the effect of immersion between 15 cm and 1 m
		8	 Protects against long periods of immersion under pressure

NEMA SIZE

National Electrical Manufacturers Associations standard for enclosure protection rating, NEMA1-6 and 11-13 type is applicable in Non-Hazardous Locations, NEMA 7-10 is applicable in Hazardous Locations

Type	Usage place	Environment	Protection rating
1	Indoor Use	Non-explosion proof	Intended for indoor use primarily to provide a degree of protection against limited amounts of falling dirt
2	Indoor Use	Non-explosion proof	Intended for indoor use primarily to provide a degree of protection against limited amounts of falling water and dirt
3	Outdoor Use	Non-explosion proof	Intended for outdoor use primarily to provide a degree of protection against rain, sleet, windblown dust; and damage from external ice formation
3R	Outdoor Use	Non-explosion proof	Intended for outdoor use primarily to provide a degree of protection against rain, sleet; and damage from external ice formation, and must have a drain hole
3S	Outdoor Use	Non-explosion proof	Intended for outdoor use primarily to provide a degree of protection against rain, sleet, windblown dust; and to provide for operation of external mechanisms when ice laden
4	Indoor/Outdoor Use	Non-explosion proof	Intended for indoor or outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water, hose directed water; and damage from external ice formation
4X		Non-explosion proof	Intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, hose directed water; and damage from external ice formation
5	Indoor Use	Non-explosion proof	Intended for indoor use primary to provide
6	Indoor/Outdoor Use	Non-explosion proof	Intended for indoor or outdoor use primarily to provide a degree of protection against hose directed water, the entry of water during occasional temporary submersion at a limited depth; and damage from external ice formation
6P		Non-explosion proof	Intended for indoor or outdoor use primarily to provide a degree of protection against hose-directed water, the entry of water during prolonged submersion at a limited depth; and damage from external ice formation
7	Outdoor Use	Explosion proof	Intended for indoor use in locations classified as Class I, Groups A, B, C, or D, as defined in the NEC
8	Indoor/Outdoor Use	Explosion proof	Intended indoor or outdoor use in locations classified as Class I, Groups A, B, C, or D, as defined in the NEC
9	Indoor Use	Explosion proof	Intended for indoor use in locations classified as Class II, Groups E, F, and G, as defined in the NEC
10	Indoor/Outdoor Use	Explosion proof	Are constructed to meet the applicable requirements of the Mine Safety and Health Administration (MSHA)
11	Indoor Use	Non-explosion proof	Protection from the corrosive effects of liquids and gases by oil immersion
12	Indoor Use	Non-explosion proof	Intended for indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping non-corrosive liquids
12K	Indoor Use	Non-explosion proof	Intended knockouts are intended for indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping non corrosive liquids
13	Indoor Use	Non-explosion proof	Intended for indoor use primarily to provide a degree of protection against dust, spraying of water, oil, and non-corrosive coolant

NEMA Ratings and IP Ratings Equivalency Chart










The chart below is for comparison between two enclosure ratings It is only for reference and these two rating standards are not exactly converted

NEMA ENCLOSURE TYPE	IP ENCLOSURE TYPE
1	IP20
2	IP22
3	IP55
4	IP66
4X	IP66
6	IP67
12	IP54
13	IP54








Icon Description

This catalogue helps users quickly identify the product's specifications and features by using several types of icons. If you understand the concept for each icon, you will find it easy to understand the catalogue information.








Light Source and Operating Mode Icons

Icon	Operating Mode	Icon	Operating Mode
	Bulb steady type		Bulb steady/flashing type
	Bulb revolving type		LED revolving type
	LED steady type		LED steady/flashing type
	LED simulated revolving type		LED strobe type
	Xenon lamp strobe type		

Acoustic Signal Icons

Icon	Siren	Icon	Siren
	Buzzer		Speaker
	Horn		Bell
	Motor siren		MP3
	Volume(dB)		

Specifications Icons

Icon	Specification	Icon	Specification
	Magnet type		Ambient operating temperature
	NPN type transistor		PNP type transistor
	IP rating		Wireless Network
	RoHS		

Industrial LED Lights

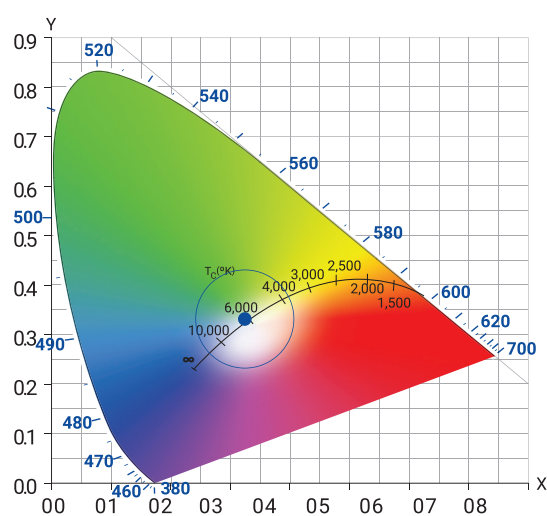


Technical information	P. 10
References	P. 14
Product Specifications	P. 18

CIE 1931 Color Space Chart

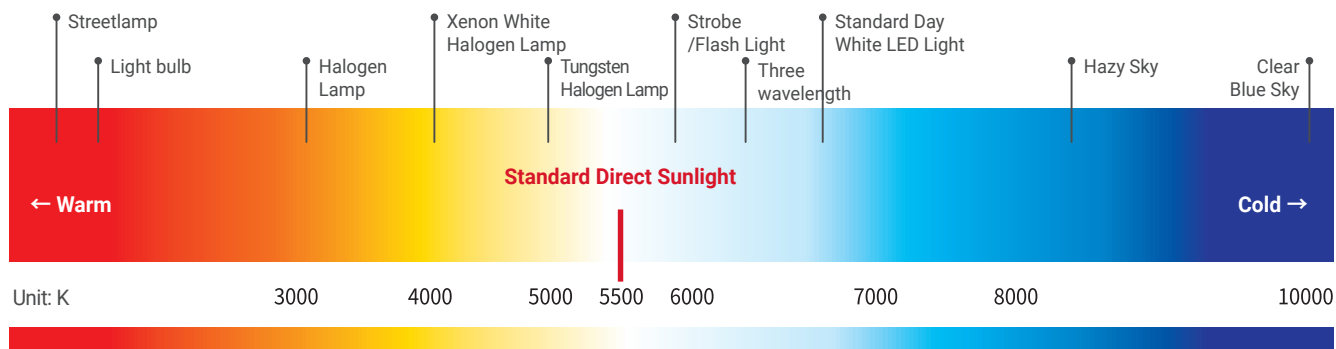
LED Colors are represented by the CIE 1931 RGB color space and CIE 1931 XYZ color space created by the International Commission on Illumination (CIE in 1931). Color Space Chart is based on the brightness of the color. Green occupies the largest space since it has the largest effect on determining the brightness of colors, while blue color that shows the least effect occupies the smallest area.

The mixing ratio of the brightness of the color is 3: 6: 1 (R: G: B), where the green portion occupies the largest space. White color that is commonly used for work lights is composed of the color green, red, and blue. White color also varies due to the ratio of these three colors. The variation color ratios are referred as the color temperature.



※ Selected daylight blue color for industrial-purpose applications

Color Temperature Unit: K(Kelvin)



The color temperature of a light source is the temperature of an ideal black-housing radiator that radiates light of comparable hue to that light source. The temperature is conventionally stated in units of absolute temperature, known as Kelvin(K).

The black housing radiates red spectrum when it starts to heat up, and will radiate blue light when the temperature gets even higher.

- Before Sunset: 2,200K(Candlelight, incandescent lamp)
- 40minutes after sunset: 3,000K(Warm white fluorescent lamp, high pressure sodium lamp)
- 2 hours after sunset: 4,000K(White halogen fluorescent lamp)
- Sunlight at noon: 5,800K(Daylight fluorescent lamp)
- Cloudy day: 7,000K(Daylight blue, fluorescent mercury lamp)

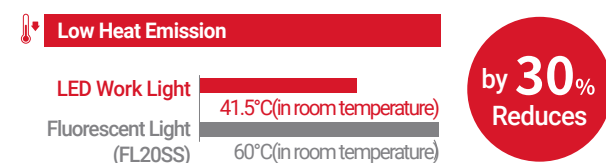
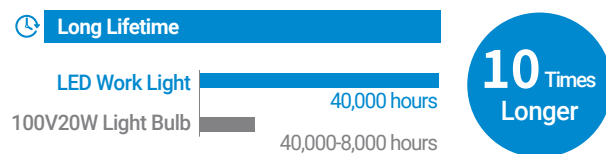
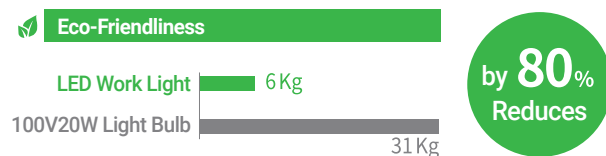
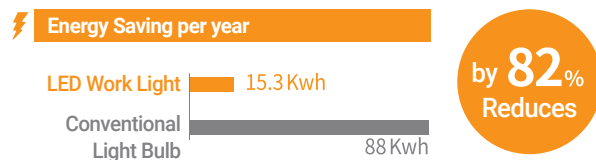
LED Color Wavelength

No.	Color	Wavelength(mm)
1	Red	618-635
2	Amber	585-595
3	Green	510-530
4	Blue	453-465

LED Color Temperature

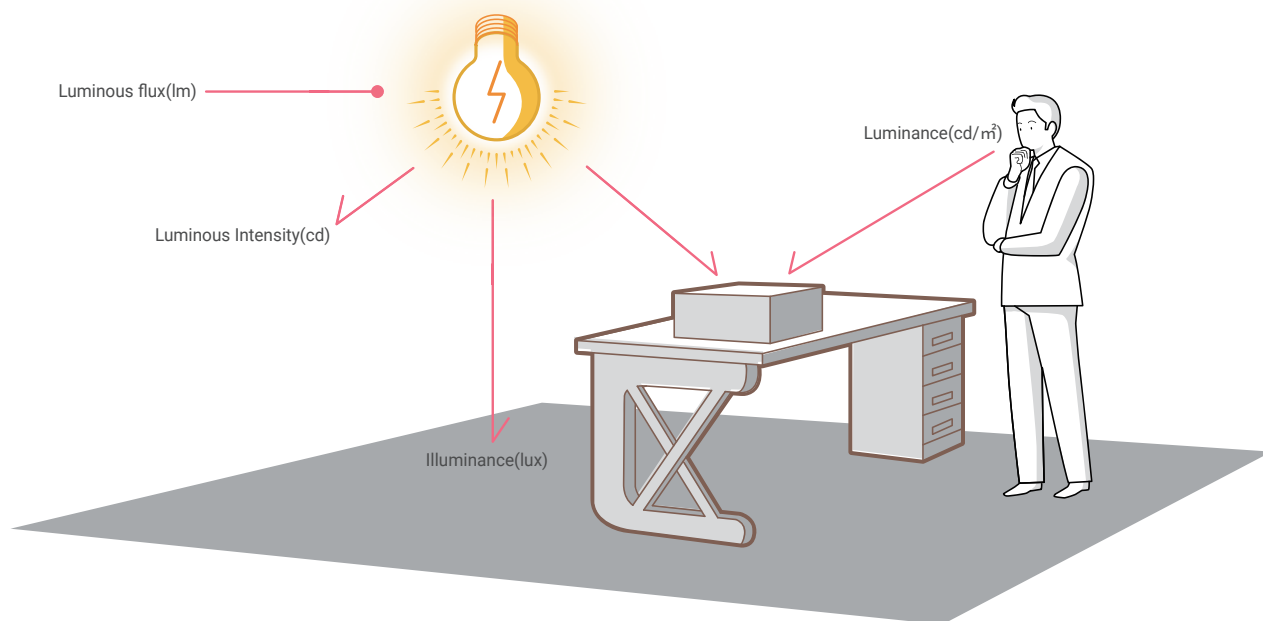
No.	Color	Color Temperature(K)
1	incandescent	2,500-3,500
2	warmwhite	3,500-4,500
3	daylight	4,500-5,500
4	cooldaylight	5,500-7,000

LED Light Energy Saving Chart





Understanding of Light Terms



Term Definitions and Stated Unit

Illuminance Unit: lux

Illuminance is the total Luminous flux incident on a surface per unit area which is conventionally stated as a unit of lux. Specifically, 1 lux equals the amount of light that falls on a one-square-meter surface that is one meter away from a single candle with light speed of 1lm.

Luminous Intensity Unit: cd

Luminous intensity is a measure of the wavelength-weighted power emitted by a light source in a particular direction per unit solid angle based on the luminosity function(a standardized model of the sensitivity of the human eye). The standard unit of luminous intensity is the candela.

Luminance Unit: cd/m²

Luminance is a measure of the luminous intensity per unit area of light travelling in a given direction. It describes the amount of light that passes through, emitted or reflected from a particular area, and falls within a given solid angle. The standard unit for luminance is cd(luminance intensity per square meter(cd/m²)).

Luminous Flux Unit: lm

Luminous flux is the measure of the perceived power of light. Standard unit of Luminous flux is the lumen (lm). Usually Luminous flux may be understood as the power of light.

Color Rendering Unit: Ra

A color rendering index (CRI) is a quantitative measure of the ability of a light source to reveal the colors of various objects faithfully in comparison with an ideal or natural light source. Numerically, the highest possible CIE Ra value is 100, which would only be given to a source identical to standardized daylight or a body of black color, and its value drops to negative values for some light sources. The higher the CRI value is, the better the color rendering ability is. Light sources with a CRI of 85 to 90 are considered good at color rendering.



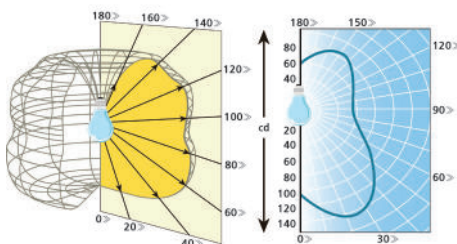
High Color Rendering(Ra80)



Low Color Rendering(Ra70)

Light Distribution Curve

Light distribution curve, provides information on how light is emitted from a lamp or light fixture. The diagram represents a section cut through the fixture and shows the intensity of light emitted in each direction. The portion of the graph above the horizontal 90°-270° line indicates light that shines above the fixture (indirect), while the portion of the graph below represents light shining down (direct). The straight lines radiating from the center point identify the angle of the light emitted while the circles represent the intensity.



Product Specification for LED Work Lights for Industrial Purpose



Model number	QML-150	QML-250	QMHL-150	QMHL-250
Voltage	DC24V	DC24V	DC24V	DC24V
Power consumption	15W	32.4W	15W	25W
Dimension (mm)	Direct mount(D type)	155(W)×105(L)×36(H)	255(W)×115(L)×36(H)	155(W)×105(L)×36(H)
	Bracket(K type)	155(W)×156(L)×51(H)	255(W)×166(L)×51(H)	155(W)×156(L)×51(H)
	Bracket(MF type)	155(W)×191(L)×66(H)	255(W)×201(L)×66(H)	155(W)×191(L)×66(H)
Material	Housing-Al, Lens-Tempered glass Bracket-K Type-STS430/MF Type-Al	Housing-Al, Lens-Tempered glass Bracket-K Type-STS430/MF Type-Al	Housing-Al, Lens-Tempered glass Bracket-K Type-STS430/MF Type-Al	Housing-Al, Lens-Tempered glass Bracket-K Type-STS430/MF Type-Al
Lens color	Translucent	Translucent	Transparent	Transparent
Light color	Cooldaylight	Cooldaylight	Cooldaylight	Cooldaylight
Illumination(at 1m)	700Lux	1,200Lux	1,100Lux	2,500Lux
Mounting structure	Direct mount(D type), Mount bracket (K type), Revolving mount bracket (MF Type)	Direct mount(D type), Mount bracket (K type), Revolving mount bracket (MF Type)	Direct mount(D type), Mount bracket (K type), Revolving mount bracket (MF Type)	Direct mount(D type), Mount bracket (K type), Revolving mount bracket (MF Type)
Protection rating	IP67/IP69K	IP67/IP69K	IP67/IP69K	IP67/IP69K
Mounting location	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use
Mounting direction	Vertical, Horizontal, Reverse vertical	Vertical, Horizontal, Reverse vertical	Vertical, Horizontal, Reverse vertical	Vertical, Horizontal, Reverse vertical
Certificates	CE, UL	CE, UL	CE	CE
Customization	Oil resistant cable attached type	Oil resistant cable attached type	Oil resistant cable attached type	Oil resistant cable attached type
Page	P18-21	P18-21	P18-21	P18-21



Model number	QFL-200/300/400/500/600/1200	QFLC-200/300/400/500/600/1200	QMFLN-200/300/400/500/600	QL-PL Series
Voltage	DC24V, AC220V	DC24V, AC220V	DC24V	AC220V
Power consumption	6-70W	6-70W	5.7-28.8W	25-46W
Dimension (mm)	Length	240-1190	240-1190	190-600
	Width	60	60	56
	Height	63	63	67
Material	Lens-PC, Side cover-Al, Heatsink-Al	Lens-PC, Side cover-Al, Heatsink-Al	Housing-Al, Lens-Tempered glass, Bracket-Spc-1	Housing-PC, Side cover-PC, Bracket-STS
Lens color	Translucent	Transparent	Transparent	Translucent
Light color	Cooldaylight	Cooldaylight	Cooldaylight	Cooldaylight, Warm white
Illumination(at 1m)	140 - 1,600Lux	150 - 1,800Lux	200 - 1,200Lux	500 - 1,400Lux
Mounting structure	Mount bracket	Mount bracket	Mount bracket	Mount bracket
Protection rating	IP67	IP67	IP67/IP69K	IP65
Mounting location	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use
Mounting direction	Vertical, Horizontal, Reverse vertical	Vertical, Horizontal, Reverse vertical	Vertical, Horizontal, Reverse vertical	Vertical, Horizontal, Reverse vertical
Certificates	CE	CE	CE, UL	CE, KS
Customization	-	-	High-intensity type	-
Page	P22-23	P22-23	P24-25	P53

Product Specification for LED Work Lights for Industrial Purpose



Model number	QPL200/300/400/500	QPLC200/300/400/500	QPHL200/300/400/500	QPHLC200/300/400/500
Voltage	DC24V, AC110V, AC220V	DC24V, AC110V, AC220V	DC24V, AC110V, AC220V	DC24V, AC110V, AC220V
Power consumption	3.7-13W	3.7-13W	4.8-15W	4.8-15W
Length	200-500	200-500	200-500	200-500
Dimension (mm)	Width	39	39	39
	Height	24	24	24
Material	Lens-PC, Side cover-ABS, Heatsink-Al	Lens-PC, Side cover-ABS, Heatsink-Al	Lens-PC, Side cover-ABS, Heatsink-Al	Lens-PC, Side cover-ABS, Heatsink-Al
Lens color	Translucent	Transparent	Translucent	Transparent
Light color	Cooldaylight	Cooldaylight	Cooldaylight	Cooldaylight
Illumination(at 1m)	50-300Lux	65-350Lux	200-550Lux	800-2,300Lux
Mounting structure	Direct mount	Direct mount	Direct mount	Direct mount
Protection rating	IP65	IP65	IP65	IP65
Mounting location	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use
Mounting direction	Vertical, Horizontal, Reverse vertical	Vertical, Horizontal, Reverse vertical	Vertical, Horizontal, Reverse vertical	Vertical, Horizontal, Reverse vertical
Certificates	CE, UL	CE, UL	CE, UL	CE, UL
Customization	M12 connector type	M12 connector type	M12 connector type	M12 connector type
Page	P26-28	P26-28	P26-28	P26-28



Model number	QCML-200/300/400/500/600/900/1200/1500	QCMLC-200/300/400/500/600/900/1200/1500	QCML-7C-200/300/400/500/600/900/1200/1500	QCML-3C-100/200/300/400
Voltage	DC24V	DC24V	DC24V	DC24V
Power consumption	5.5-28W	5.5-28W	4.7-28W	1-3.5W
Length	228-1,528	228-1,528	228-1,528	123-428
Dimension (mm)	Width	33	33	33
	Height	26	26	26
Material	Lens-PC, Side cover-PC, Heatsink-Al, Bracket-PC	Lens-PC, Side cover-PC, Heatsink-Al, Bracket-PC	Lens-PC, Side cover-PC, Heatsink-Al, Bracket-PC	Lens-PC, Side cover-PC, Heatsink-STs, Bracket-PC
Lens color	Translucent	Transparent	Translucent	Translucent
Light color	Cooldaylight, Warm white, Red, Amber	Cooldaylight, Warm white, Red, Amber	Red, Green, Blue, Amber, Violet, Cyan, White	Red, Amber, Green
Illumination(at 1m)	80-600Lux	100-900Lux	-	-
Mounting structure	Mount bracket	Mount bracket	Mount bracket	Mount bracket
Protection rating	IP67/IP69K	IP67/IP69K	IP67/IP69K	IP67/IP69K
Mounting location	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use
Mounting direction	Vertical, Horizontal, Reverse vertical	Vertical, Horizontal, Reverse vertical	Vertical, Horizontal, Reverse vertical	Vertical, Horizontal, Reverse vertical
Certificates	CE, UL	CE, UL	CE, UL	CE
Customization	M12 connector type	M12 connector type	M12 connector type	Lens rear side cable outlet type, M12 connector type
Page	P29-31	P29-31	P32-33	P34-35

Product Specification for LED Work Lights for Industrial Purpose



Model number	QGL-200/300/400/500	QGLC-200/300/400/500	QMFL300-Ex-24	QLEX-TRI-240(PL)
Voltage	DC24V, AC220V	DC24V, AC220V	DC24V	DC24V
Power consumption	4-14W	4-14W	10W	8.6W
Length	200-500	200-500	310	244
Width	38	38	62	52
Height	34	34	69	70
Material	Lens-PC, Side cover-ABS, Heatsink-Al, Bracket-STS201	Lens-PC, Side cover-ABS, Heatsink-Al, Bracket-STS201	Housing-Al, Side cover-Al, Lens-Tempered glass, Bracket-Spc-1	Side cover-Al, Lens-PC, Bracket-PC
Lens color	Translucent	Transparent	Translucent	Translucent
Light color	Cooldaylight	Cooldaylight	Cooldaylight	Cooldaylight
Illumination(at 1m)	70-310Lux	85-400Lux	260Lux	310Lux
Mounting structure	Mount bracket	Mount bracket	Mount bracket	Mount bracket
Protection rating	Non-Waterproof	Non-Waterproof	IP67/IP69K	IP66/IP67
Mounting location	Indoor Use	Indoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use
Mounting direction	Vertical, Horizontal, Reverse vertical	Vertical, Horizontal, Reverse vertical	Vertical, Horizontal, Reverse vertical	Vertical, Horizontal, Reverse vertical
Certificates	CE	CE	KCs, NEPSI	KCs, NEPSI
Customization	M12 connector type	M12 connector type	-	-
Page	P36-37	P36-37	P45	P50-51



Model number	QEL(T)-200/300/400/500	QEL(T)S-200/300/400/500	QELT-UL-200/300/400/500
Voltage	DC24V, AC110V, AC220V	DC24V, AC110V, AC220V	AC110V-220V
Power consumption	3-9.5W	3-9.5W	5-15W
Length	220-549	249-578	249-549
Width	35	35	35
Height	31	33	31
Material	Lens-PC, Side cover-ABS, Bracket-STS201	Lens-PC, Side cover-ABS, Bracket-STS201	Lens-PC, Side cover-ABS, Bracket-STS201
Lens color	Translucent	Translucent	Translucent
Light color	Cooldaylight	Cooldaylight	Cooldaylight
Illumination(at 1m)	75-200Lux	75-200Lux	95-335Lux
Mounting structure	Mount bracket	Mount bracket	Mount bracket
Protection rating	Non-Waterproof	Non-Waterproof	Non-Waterproof
Mounting location	Indoor Use	Indoor Use	Indoor Use
Mounting direction	Vertical, Horizontal, Reverse vertical	Vertical, Horizontal, Reverse vertical	Vertical, Horizontal, Reverse vertical
Certificates	CE, KC	CE, KC	UL(RU)
Customization	M12 connector type	M12 connector type	-
Page	P38-40	P38-40	P54-55

Product Specification for LED Work Lights for Industrial Purpose



Model number	QML60	QWL20	QWL40	QLS-SLM-250
Voltage	DC24V	DC12V-24V	DC12V-24V	DC24V
Power consumption	6.5W	Max.11.5W	Max.40W	8.6W
Dimension (mm)	Length	85	100	250
	Width	Ø83	96	90
	Depth	Ø60	75	40
Material	Housing-Al, Lens-PC	Housing-Al, Lens-PC, Bracket-STS	Housing-Al, Lens-PC, Bracket-STS	Housing-Al, Lens-PC, Bracket-Al
Lens color	Transparent	Translucent	Translucent	Translucent
Light color	Cooldaylight	Cooldaylight	Cooldaylight	Cooldaylight
Illumination(at 1m)	3,900Lux(with 25 degree lens) 1,800Lux(with 45 degree lens-customization)	4,300Lux	4,000Lux	310Lux
Mounting structure	-	Mount bracket	Mount bracket	Mount bracket
Protection rating	IP65	IP67	IP68	Non-Waterproof
Mounting location	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor Use
Mounting direction	Vertical, Horizontal, Reverse vertical	Vertical, Horizontal, Reverse vertical	Vertical, Horizontal, Reverse vertical	Vertical, Horizontal, Reverse vertical
Certificates	CE	CE, UL	CE, UL	CE, UL
Customization	ON/OFF switch	-	-	-
Page	P41	P42	P43	P44



Model number	QLEX-SLM Series	QLEX-350	QLEX-NEC-250	QLEX-SLM-650-EMG
Voltage	DC24V, AC220V	DC24V	DC24V	AC110V-230V
Power consumption	8.6-23W	8.6W	8.6W	Max.33W
Dimension (mm)	Length	350	250	792
	Width	110	105	187
	Height	93	78	110
Material	Side cover-Al, Lens-PC, Bracket-Al	Side cover-Al, Lens-PC, Side cover out-NBR, Bracket-Al	Side cover-Al, Lens-PC, Bracket-Al	Housing-Al, Upper cover-Al, Side cover-Al, Lens-PC, Bracket-Al, STS
Lens color	Translucent	Transparent/Translucent	Translucent	Translucent
Light color	Cooldaylight	Cooldaylight	Cooldaylight	Cooldaylight
Illumination(at 1m)	240-650Lux	230Lux	310Lux	700Lux
Mounting structure	Mount bracket	Mount bracket	Mount bracket	Mount bracket
Protection rating	IP66/IP67	IP66/IP67	IP66/IP67	IP66
Mounting location	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use
Mounting direction	Vertical, Horizontal, Reverse vertical	Vertical, Horizontal, Reverse vertical	Vertical, Horizontal, Reverse vertical	Vertical, Horizontal, Reverse vertical
Certificates	CE, KCs, NEPSI, S-Mark, ATEX, IECEx	KCs, NEPSI, CE	INTERTEK(NRTL), IECEx, CE	KCs
Customization				
Page	P46-47	P48	P49	P52

Water, Vibration and Oil Resistant LED Work Lights with IP67/ IP69K Protection

QML / QMHL

Water, vibration and oil resistant LED work light, suitable for machine tools applications and high temperature water cleaning environments

PRODUCT SPECIFICATION

QML | QMHL

Materials Housing-Al, Lens-Tempered glass

Bracket-K Type-STS430/MF Type-Al

Ambient operating temperature -30°C to +60°C

Protection rating IP67/IP69K

Certificates CE, UL



QML

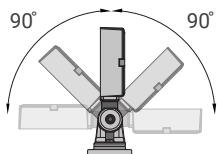
QMHL

- Excellent oil resistance with a special sealing structure with IP67 protection rating, suitable for machine tool applications with cutting fluids
- Suitable for high pressure and high temperature water cleaning environment(IP69K)
- Tempered glass prevents damage from machine tool chips
- Flat glass bonding structure
- No external substances on the glass despite of long-term use
- Can select between QML model (Anti-glare type) and QMHL model (High luminance type) depending on your work conditions
- Can select from a variety of bracket options from direct mount, tilt mount, and pan/ tilt mount type to fit your work environment or lighting condition needs
- Wired type and M12 connector type allow for a customized model that M12 connector can be attached at the end of wires.
- Customized oil resistant cable attached type available

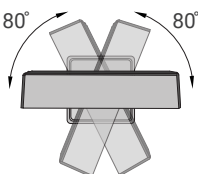
Tilt/Pan Type MF Bracket, Water and Oil Resistant

MF type bracket

SIDE VIEW



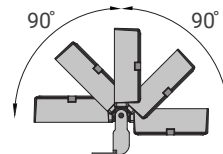
TOP VIEW



- Water and oil resistant MF type brackets protect output cable from cutting fluid and chips
- Has a tilt adjustment angle of 180° and a pan angle of 160°

K type bracket

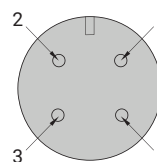
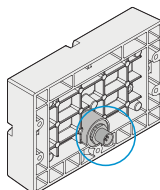
SIDE VIEW



- Has tilt adjustment with wide angle of 180°

M12 connector equipped

- Applicable model: QML-150-D, QML-150-K, QML-250-D, QML-250-K, QMHL-150-D, QMHL-150-K, QMHL-250-D, QMHL-250-K



PIN	DESCRIPTION
1	DC (-)
2	N/A
3	DC (+)
4	N/A

Test Conditions/Regulations

Vibration Resistance Test	<ul style="list-style-type: none">· Acceleration: 20m/s²· Duration: 1 octave/min· Range of frequency: 10-150Hz· Amplitude: 10 times maximum 7.5mm, direction: test 10times in 3 directions(X, Y, Z)
Shock Resistance Test	<ul style="list-style-type: none">· Acceleration: 20g· Directions: ±X, ±Y, ±Z· Numbers: 3 times each directions· Time period: 11ms for each direction· Waveform: Half sine
Oil Resistance Test	<ul style="list-style-type: none">· General test: Tested in water soluble and non-water soluble flooded environments for 500 hours.· High temperature oil resistance test: Place the object in a constant temperature water bath at 80°C for two hours and then submerge the object in the room temperature oil diluent for 24hours.
Solid Particle Protection Test(IP6X)	<ul style="list-style-type: none">· After reducing the pressure inside the test object, spray talcum powder with a nominal diameter of 50um for 2 hours at 40-60meters/hour inside the dust chamber.· IEC60529
High-pressure, High-temperature Wash-down Test (IPX7)	<ul style="list-style-type: none">· Test ingress by putting the object under 1000mm water with 2bar of pressure for 30 mins
High-pressure, High-temperature Wash-down Test (IP69K)	<ul style="list-style-type: none">· Spray nozzle provides 80°C water with pressure of 80-100 bar and a flow rate of 14-16 L/min to the object· Distance between spray nozzle and the test object: 10-15cm· Water spray angle: 0°, 30°, 60°, 90°· The nozzle is held at 4 of each angle for 30 seconds· DIN 40050 PART9

QML-150 / QML-250

- Equipped anti-glare filter
- Suitable for environments that require stable intensity illumination for improved visibility



QML-150-D



QML-250-D



QML-150-K



QML-250-K



QML-150-MF



QML-250-MF

QMHL-150 / QMHL-250

- High intensity illumination and condenser lens combination
- High intensity illumination allows for the environment both long distance and straightness are required



QMHL-150-D



QMHL-250-D



QMHL-150-K



QMHL-250-K



QMHL-150-MF



QMHL-250-MF

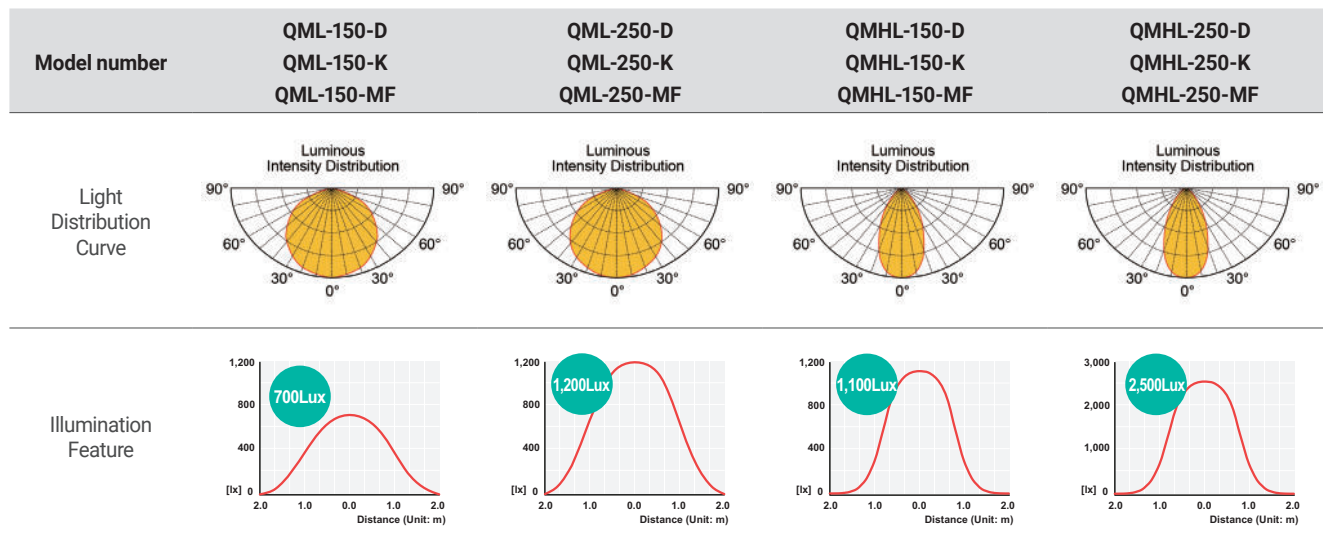
QML / QMHL Water, Vibration and Oil Resistant LED Work Lights

Optics Specifications				
Model number	QML-150-D QML-150-K QML-150-MF	QML-250-D QML-250-K QML-250-MF	QMHL-150-D QMHL-150-K QMHL-150-MF	QMHL-250-D QMHL-250-K QMHL-250-MF
Lens color	Translucent	Translucent	Transparent	Transparent
Light color	Cooldaylight			
Color temperature	6,000-7,000K			
Luminous flux	850lm	1,900lm	900lm	1,800lm
Illumination(at 1m)	700Lux	1,200Lux	1,100Lux	2,500Lux
Specifications				
Model number	QML-150-D QML-150-K QML-150-MF	QML-250-D QML-250-K QML-250-MF	QMHL-150-D QMHL-150-K QMHL-150-MF	QMHL-250-D QMHL-250-K QMHL-250-MF
Voltage	DC24V	DC24V	DC24V	DC24V
Range for operation voltage	DC21.5V-26.5V			
Power consumption	15W	32.4W	15W	25W
Insulation resistance	Min. 100MΩ(500V DC mega ohm meter)			
Withstanding voltage	DC: 500VAC, 60Hz, 1 minute			
Operating temperature	-30°C to +60°C			
Protection rating	IP67/IP69K			
Materials	Housing-Al, Lens-Tempered glass, Bracket-K Type-ST5430/MF Type-Al			
Certifications	 			
Weight(Approx.)	QML-150-D: 0.82kg QML-150-K: 0.88kg QML-150-MF: 1.09kg	QML-250-D: 1.31kg QML-250-K: 1.37kg QML-250-MF: 1.58kg	QMHL-150-D: 0.84kg QMHL-150-K: 0.99kg QMHL-150-MF: 1.11kg	QMHL-250-D: 1.32kg QMHL-250-K: 1.39kg QMHL-250-MF: 1.60kg

※ UL Listed: QML Series only

QML / QMHL

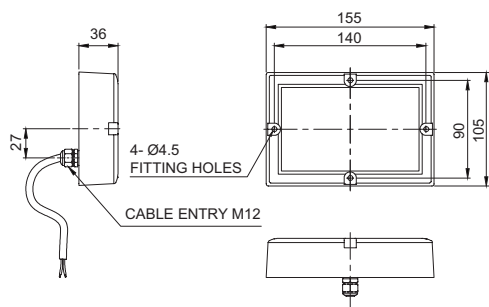
Light Distribution and Illuminance



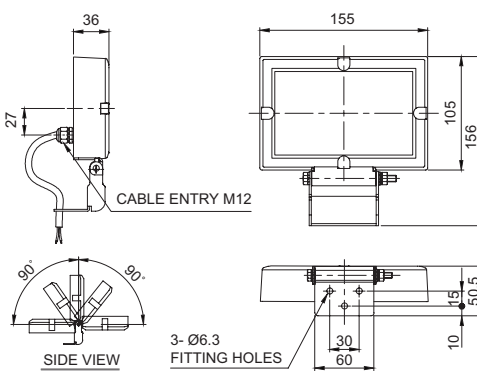
Technical Diagram

Units: mm

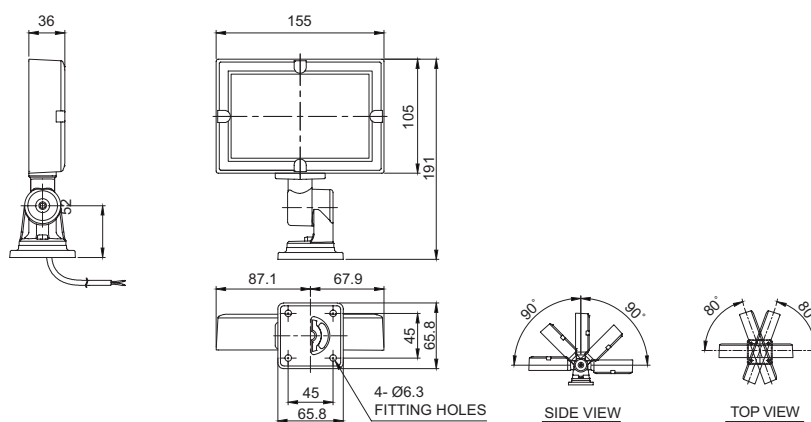
·QML-150-D / QMHL-150-D



·QML-150-K / QMHL-150-K



·QML-150-MF / QMHL-150-MF

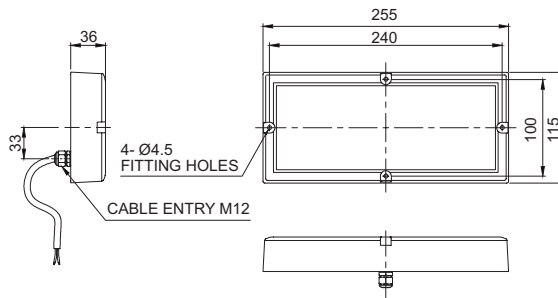


· External power line - Dura & Flex-F VU(0.5sq) x 2C 450mm

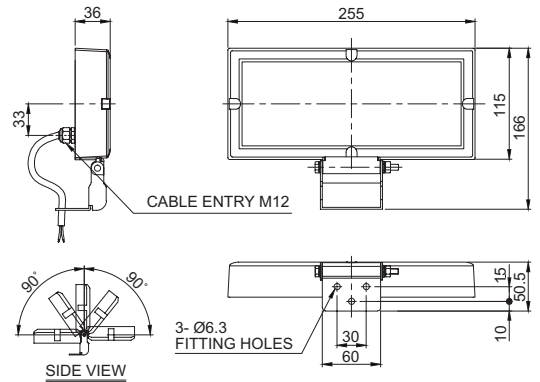
Technical Diagram

Units: mm

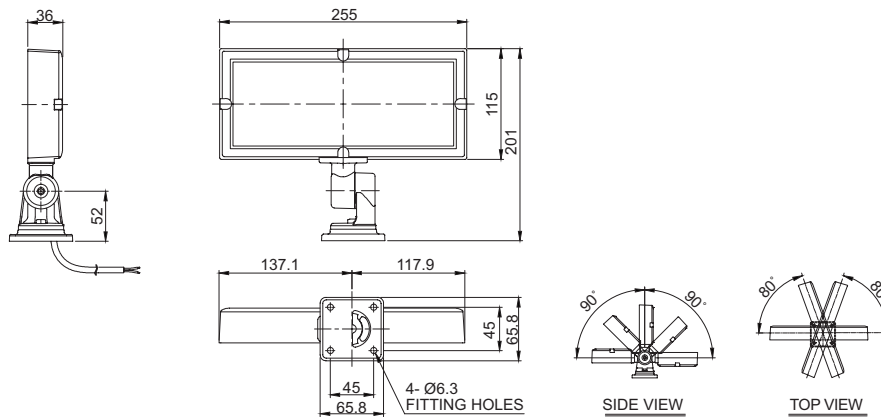
·QML-250-D / QMHL-250-D



·QML-250-K / QMHL-250-K



·QML-250-MF / QMHL-250-MF



· External power line - Dura & Flex-F VU(0.5sq) x 2C 450mm

Ordering Specification

QML	-	150	-	D	-	24	-	M12
[Model number]		[Product length]		[Mount bracket]		[Voltage]		[Connector]
QML-Anti-Glare		150-155mm		D: Self stand		24-DC24V		(None) - power cable withdrawal type
QMHL-High illumination		250-255mm		K: Vertical angle adjustment MF: Vertical, horizontality angle adjustment				M12 - M12 connector type

Cautions in use

- Please check the safety manual before use, accidents such as fire or electric shock can occur if the safety manual is not followed.
- This product can be changed without any notification. Latest information is on the website.

QFL / QFLC

PRODUCT SPECIFICATION

QFL | QFLC

Materials Lens-PC, Side cover-Al, Heatsink-Al, Bracket-SPC-1

Ambient operating temperature -30°C to +50°C

Protection rating IP67

Certificates CE



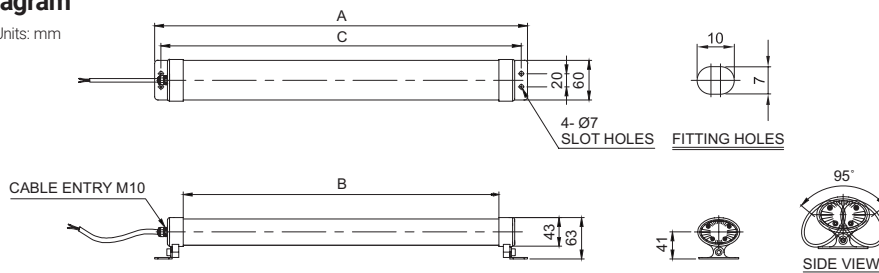
QFL Translucent lens
QFLC Transparent lens

- Excellent front and side light distribution with the use of a special light distributing structure on the surface of the oval lens
- An external power supply is not needed for the AC type product; AC voltage can be applied directly to the product
- Excellent heat dissipation by using a heat dissipative material connected to the outer cover
- Water and vibration proof model (IP67), suitable for outdoors and places with dust and moisture
- Can select between QFL model(Anti-glare type) and QFLC model(High luminance type) depending on your work conditions
- Tilt bracket provides wide luminance angle adjustment of 130°
- Superior durability with lens made of polycarbonate
- Wired type and M12 connector type allow for a customized model that M12 connector can be attached at the end of wires.

Technical Diagram

Units: mm

·QFL Series / QFLC Series



MODEL	A	B	C
QFL/ QFLC-200	240	152	220
QFL/ QFLC-300	340	252	320
QFL/ QFLC-400	440	352	420
QFL/ QFLC-500	540	452	520
QFL/ QFLC-600	640	552	620
QFL/ QFLC-1200	1190	1102	1170

· External power line - Dura & Flex-F VU(0.5sq) x 2C 450mm

QFL Water and Vibration Resistant LED Light Bars

Optics Specifications						
Model number	QFL-200	QFL-300	QFL-400	QFL-500	QFL-600	QFL-1200
Lens color	Translucent	Translucent	Translucent	Translucent	Translucent	Translucent
Light color	Cooldaylight					
Color temperature	6,000-7,000K					
Luminous flux	DC	350lm	680lm	900lm	1,400lm	3,400lm
	AC	-	-	1,200lm	1,800lm	4,400lm
Illumination(at 1m)	DC	140Lux	250Lux	380Lux	500Lux	1,200Lux
	AC	-	-	450Lux	600Lux	1,600Lux
Specifications						
Model number	QFL-200	QFL-300	QFL-400	QFL-500	QFL-600	QFL-1200
Voltage	DC24V					
Range for operation voltage	AC220V(Except QFL-200/300)					
Power consumption	DC	6W	10W	15W	20W	50W
	AC	-	-	25W	30W	70W
Insulation resistance	Min. 100MΩ(500V DC mega ohm meter)					
Withstanding voltage	DC: 500VAC, 60Hz, 1 minute/AC: 1,500VAC, 60Hz, 1 minute					
Operating temperature	-30°C to +50°C					
Protection rating	IP67					
Materials	Lens-PC, Side cover-Al, Heatsink-Al, Bracket-SPC-1					
Certifications	CE					
Weight(Approx.)	DC	0.44kg	0.51kg	0.66kg	0.74kg	1.38kg
	AC	-	-	0.68kg	0.77kg	1.49kg

※ CE Compliant: DC24V(Except QFL-1200 DC24V), AC220V(CE SMPS applied upon request as an order specification)

QFLC

Water and Vibration Resistant LED Light Bars

Optics Specifications							
Model number		QFLC-200	QFLC-300	QFLC-400	QFLC-500	QFLC-600	QFLC-1200
Lens color		Transparent	Transparent	Transparent	Transparent	Transparent	Transparent
Light color		Cooldaylight					
Color temperature		6,000-7,000K					
Luminous flux	DC	400lm	800lm	1,200lm	1,500lm	2,000lm	4,200lm
	AC	-	-	1,400lm	2,000lm	2,500lm	5,000lm
Illumination (at 1m)	DC	150Lux	300Lux	460Lux	600Lux	780Lux	1,500Lux
	AC	-	-	550Lux	800Lux	900Lux	1,800Lux
Specifications							
Model number		QFLC-200	QFLC-300	QFLC-400	QFLC-500	QFLC-600	QFLC-1200
Voltage		DC24V					
		AC220V(Except QFLC-200/300)					
Range for operation voltage		DC21.5V-26.5V, AC198V-245V					
Power consumption	DC	6W	10W	15W	20W	25W	50W
	AC	-	-	25W	30W	35W	70W
Insulation resistance		Min. 100MQ(500V DC mega ohm meter)					
Withstanding voltage		DC: 500VAC, 60Hz, 1 minute/AC: 1,500VAC, 60Hz, 1 minute					
Operating temperature		-30°C to +50°C					
Protection rating		IP67					
Materials		Lens-PC, Side cover-Al, Heatsink-Al, Bracket-SPC-1					
Certifications		CE					
Weight(Approx.)	DC	0.44kg	0.51kg	0.66kg	0.74kg	0.85kg	1.38kg
	AC	-	-	0.68kg	0.77kg	0.87kg	1.49kg

※ CE Compliant: DC24V(Except QFL-1200 DC24V), AC220V(CE SMPS applied upon request as an order specification)

Light Distribution and Illuminance

QFL Series

Light Distribution Curve

Luminance Feature

QFLC Series

Light Distribution Curve

Luminance Feature

M12 connector equipped

- This product is compatible with the M12 connector pull-out type specification

PIN	DC	AC
1	DC (-)	AC POWER
2	N/A	N/A
3	DC (+)	AC POWER
4	N/A	N/A

Ordering Specification

QFL	-	600	-	24	-	M12
[Model number]		[Product length]		[Voltage]		[Connector]
QFL-Translucent lens		200-240mm		24-DC24V		(None) - Power cable
QFLC-Transparent lens		300-340mm		220-AC220V		withdrawal type
		400-440mm		(Except QFL(C)-200/300)		M12 - M12 connector type
		500-540mm				
		600-640mm				
		1,200-1,190mm				

Water, Vibration and Oil Resistant LED Work Lights with IP67/ IP69K Protection

QMFLN

Suitable for machine tool equipment that needs excellent water and oil proof features

PRODUCT SPECIFICATION

QMFLN

Materials Housing-Al, Lens-Tempered glass
Bracket-SPC-1

Ambient operating temperature -30°C to +60°C

Protection rating IP67, IP69K

Certificates CE, UL



QMFLN

- Special sealing structure provides excellent oil resistance, suitable for environments with high temperature cutting oil
- Suitable for high pressure and high temperature water cleaning environments(IP69K)
- Tempered glass prevents damage from machine tool chips
- Bracket included has tilt adjustment with angle of 120°
- Can select from variety of body length of 200/ 300/ 400/ 500/ 600mm to fit your application needs
- Can choose anti-glare lens type depending on work environment needs
- High-intensity type available upon request(Model number: QMFHLN)
- Wired type and M12 connector type allow for a customized model that M12 connector can be attached at the end of wires.

Structural Features

Special sealing structure features superior oil resistance

Prevents components from moving in the sealed body due to warpage from high temperature over a period of time

Chemically Tempered Glass

Prevents shock damage from machine tool chips

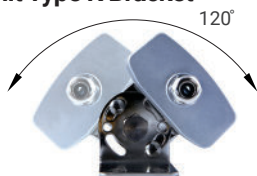
Special Micro Lens

Provides high luminance with superior light focusing capability, suitable for work environments that need long distance direct visibility

Aluminum Heat-Radiant Housing

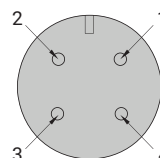
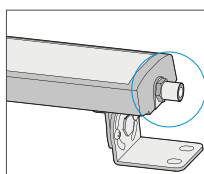
Adopted special heat-radiant structure to provide stable luminance in high temperature sealed environment

Tilt Type K Bracket



The standard bracket included enables tilt adjustment with angle of 120°

M12 connector equipped



PIN	DESCRIPTION
1	DC (-)
2	N/A
3	DC (+)
4	N/A

Test Conditions/Regulations

Vibration Resistance Test	<ul style="list-style-type: none">· Acceleration: 20m/s²· Duration: 1 octave/min· Range of frequency: 10-150Hz· Amplitude: Maximum 7.5mm, Direction: tested 10times each 3 directions(X, Y, Z)
Shock Resistance Test	<ul style="list-style-type: none">· Acceleration: 20g· Directions: ±X, ±Y, ±Z· Numbers: 3 times each directions· Time period: 11ms for each direction· Waveform: Half Sine
Oil Resistance Test	<ul style="list-style-type: none">· General test: Tested in water soluble and non-water soluble flooded environments for 500 hours.· High temperature oil resistance test: Place the object in a constant temperature water bath at 80°C for two hours and then submerge the object in the room temperature oil diluent for 24hours.
Solid Particle Protection Test(IP6X)	<ul style="list-style-type: none">· After reducing the pressure inside the test object, spray talcum powder with a nominal diameter of 50um for 2 hours at 40-60meters/hour inside the dust chamber.· IEC60529
Liquid Ingress Protection Test(IPX7)	<ul style="list-style-type: none">· Test ingress by putting the object under 1000mm water with 2bar of pressure for 30 mins
High-pressure, High-temperature Wash-down Test (IP69K)	<ul style="list-style-type: none">· Spray nozzle provides 80°C water with pressure of 80–100 bar and a flow rate of 14–16 L/min to the object· Distance between spray nozzle and the test object: 10-15cm· Water spray angle: 0°, 30°, 60°, 90°· The nozzle is held at 4 of each angle for 30 seconds· DIN 40050 PART9

Basic Waterproof LED Light Bars

QPL / QPLC / QPHL / QPHLC

Waterproof LED light bars, suitable for dusty and moisture environments



QPL / QPHL
Translucent lens



QPLC / QPHLC
Transparent lens

PRODUCT SPECIFICATION

QPL | QPLC
QPHL | QPHLC

Materials Lens-PC, Side cover-ABS, Heatsink-Al



Ambient operating temperature -30°C to +50°C

Protection rating IP65

Certificates CE, UL

- Fully enclosed structure with protection rating of IP65, suitable for environments which have lingering dust or moisture
- Maintains bright intensity illumination from dust resistant lens
- Beautiful appearance with dome type lens
- Slim thickness 24mm adopted AC direct LED control system
- 4 kinds of products length 200/300/400/500mm
- Selectable lens between translucent and transparent based on condition
- Standard entry cable included. Can customize the product with the M12 connector if requested(Female M12 connector is not provided)



QPL / QPLC Basic Waterproof LED Light Bars

Optics Specifications									
Model number		QPL-200	QPLC-200	QPL-300	QPLC-300	QPL-400	QPLC-400	QPL-500	QPLC-500
Lens color		Translucent	Transparent	Translucent	Transparent	Translucent	Transparent	Translucent	Transparent
Light color		Cooldaylight							
Color temperature		6,000-7,000K							
Luminous flux	DC	150lm	180lm	240lm	250lm	350lm	440lm	480lm	600lm
	AC	-	-	380lm	440lm	550lm	650lm	840lm	900lm
Illumination (at 1m)	DC	50Lux	65Lux	80Lux	100Lux	120Lux	150Lux	150Lux	200Lux
	AC	-	-	130Lux	150Lux	200Lux	240Lux	300Lux	350Lux
Specifications									
Model number		QPL-200 / QPLC-200		QPL-300 / QPLC-300		QPL-400 / QPLC-400		QPL-500 / QPLC-500	
Voltage		DC24V		DC24V		DC24V		DC24V	
				AC 110V/220V		AC 110V/220V		AC 110V/220V	
Range for operation voltage		DC21.5V-26.5V, AC98V-121V, AC198V-245V							
Power consumption	DC24V	3.7W		3.7W		5.5W		7.3W	
	AC110V	-		4.5W		7.5W		10W	
	AC220V	-		6.5W		9.5W		13W	
Insulation resistance		Min. 100MΩ(500V DC mega ohm meter)							
Withstanding voltage		DC: 500VAC, 60Hz, 1 minute/AC: 1,500VAC, 60Hz, 1 minute							
Operating temperature		-30°C to +50°C							
Protection rating		IP65							
Materials		Lens-PC, Side cover-ABS, Heatsink-Al							
Certifications		 							
Weight(Approx.)	0.13kg		0.15kg		0.21kg		0.24kg		
			0.15kg		0.21kg		0.24kg		

※ CE compliant: DC24V, AC220V, UL Listed: DC24V

QPHL / QPHLC Basic Waterproof LED Light Bars

Optics Specifications									
Model number	QPHL-200	QPHLC-200	QPHL-300	QPHLC-300	QPHL-400	QPHLC-400	QPHL-500	QPHLC-500	
Lens color	Translucent	Transparent	Translucent	Transparent	Translucent	Transparent	Translucent	Transparent	
Light color	Cooldaylight								
Color temperature	6,000-7,000K								
Luminous flux	DC	320lm	340lm	450lm	480lm	650lm	640lm	900lm	1,000lm
	AC	-	-	440lm	440lm	650lm	640lm	900lm	900lm
Illumination (at 1m)	DC	200Lux	800Lux	300Lux	1,000Lux	400Lux	1,500Lux	550Lux	2,000Lux
	AC	-	-	250Lux	1,000Lux	400Lux	1,500Lux	550Lux	2,300Lux

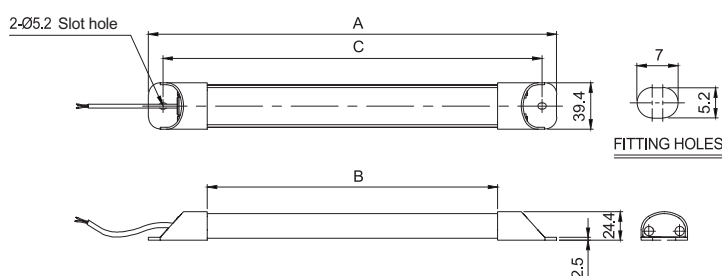
Specifications					
Model number	QPHL-200 / QPHLC-200		QPHL-300 / QPHLC-300	QPHL-400 / QPHLC-400	QPHL-500 / QPHLC-500
Voltage	DC24V	DC24V		DC24V	DC24V
		AC 110V/220V		AC 110V/220V	AC 110V/220V
Range for operation voltage		DC21.5V-26.5V, AC98V-121V, AC198V-245V			
Power consumption	DC24V	4.8W	5.5W	8W	10W
	AC110V	-	5W	8W	12W
	AC220V	-	8W	11W	15W
Insulation resistance			Min. 100MΩ(500V DC mega ohm meter)		
Withstanding voltage			DC: 500VAC, 60Hz, 1 minute/AC: 1,500VAC, 60Hz, 1 minute		
Operating temperature			-30°C to +50°C		
Protection rating			IP65		
Materials			Lens-PC, Side cover-ABS, Heatsink-Al		
Certifications		-	 		
Weight(Approx.)	0.13kg	0.22kg		0.31kg	0.41kg
		0.23kg		0.32kg	0.42kg

※ CE compliant: DC24V, AC220V, UL Listed: DC24V(Except QPHL(C)-200)

Technical Diagram

Units: mm

·QPL / QPHL-200/300/400/500
·QPLC / QPHLC-200/300/400/500

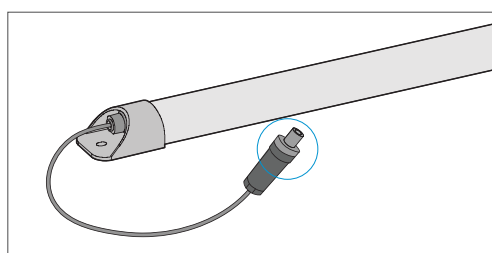


MODEL	A	B	C
QPL / QPHL / QPLC / QPHLC-200	200	100	175
QPL / QPHL / QPLC / QPHLC-300	300	200	275
QPL / QPHL / QPLC / QPHLC-400	400	300	375
QPL / QPHL / QPLC / QPHLC-500	500	400	475

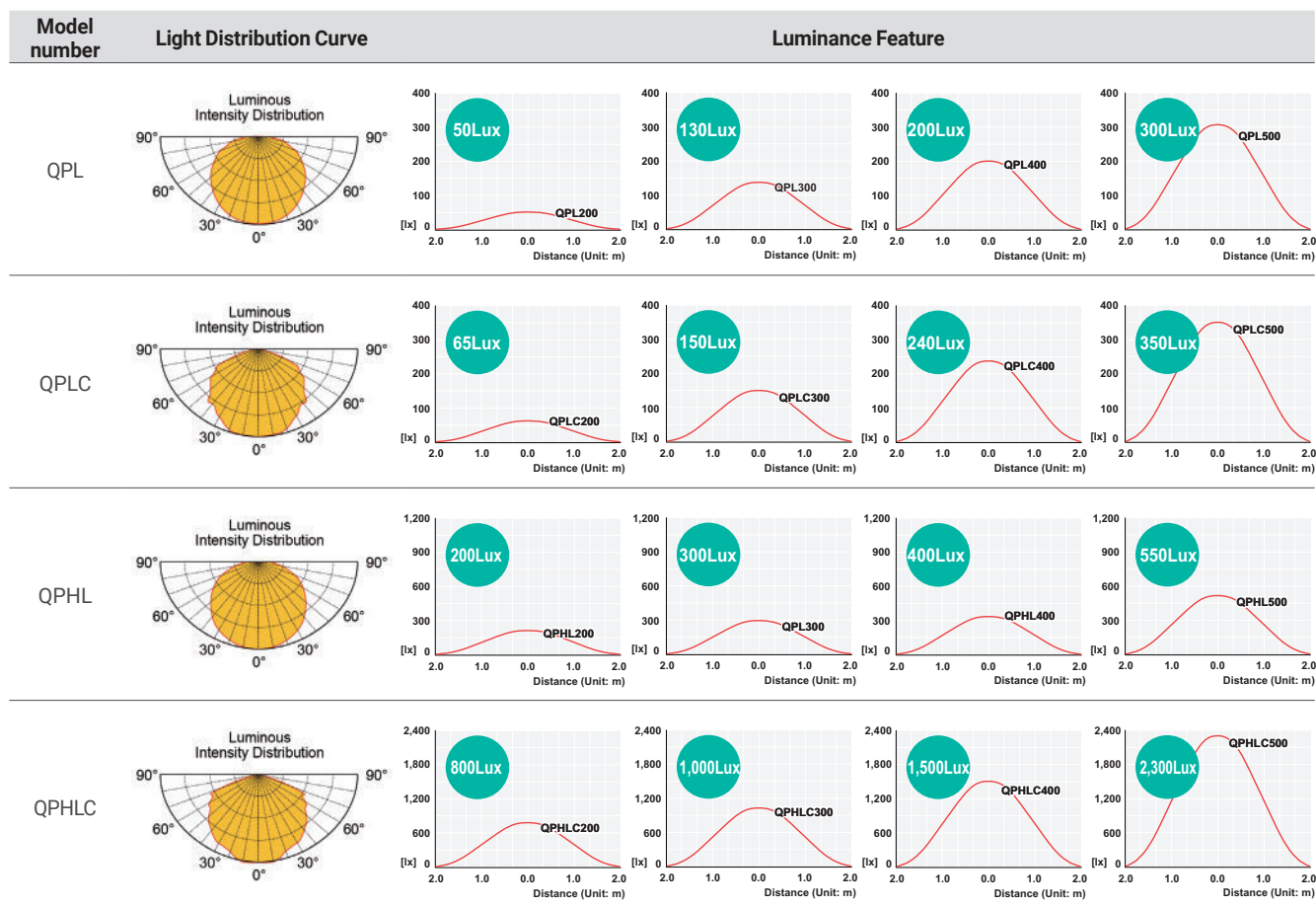
· External power line - DC type : UL2464 AWG22(0.3sq x 2C) 450mm
AC type : VCTFK(0.75sq x 2C) 450mm

M12 connector equipped (Customization)

· Customized cable end M12 connector attached type available.



Light Distribution and Illuminance

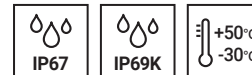


Ordering Specification

QPL	-	500	-	24
[Model number]		[Product length]		[Voltage]
QPL-Translucent lens		200-200mm		24-DC24V
QPLC-Transparent lens		300-300mm		110-AC110V
QPHL-High illumination translucent lens		400-400mm		220-AC220V
QPHLC-High illumination transparent lens		500-500mm		

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

QCML / QCMLC



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 cool daylight, incandescent, amber and red color lights to fit your application needs

PRODUCT SPECIFICATION

QCML | QCMLC

Materials Lens-PC, Side cover-PC, Heatsink-Al, Bracket-PC

Ambient operating temperature -30°C to +50°C

Protection rating IP67, IP69K

Certificates CE, UL



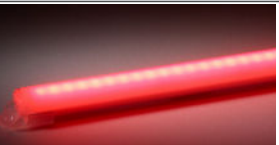

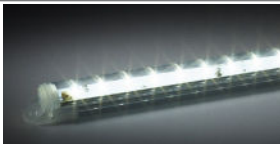





QCML Translucent lens

QCMLC Transparent lens

- 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
- Standard entry cable included. Can customize the product with the M12 connector if requested(Female M12 connector is not provided)

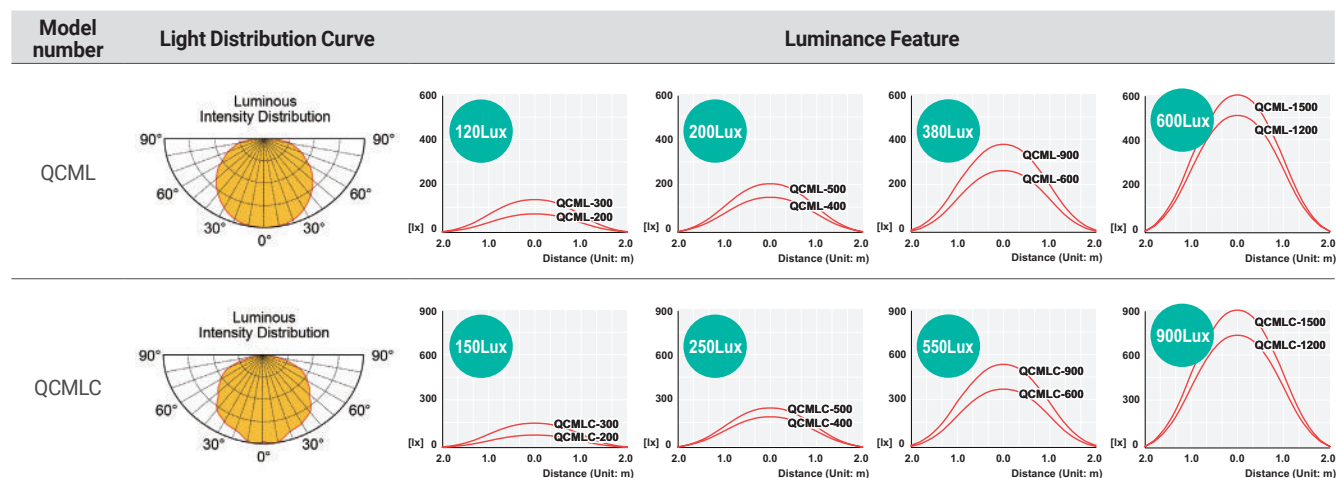
QCML Series Waterproof LED Light Bars for Multi-use

Lens Type	Product length	Cooldaylight	Warm white	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

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

QCML / QCMLC

Light Distribution and Illuminance



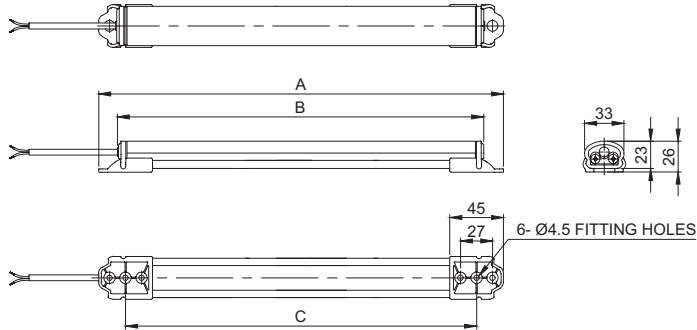
QCML / QCMLC Waterproof LED Light Bars for Multi-use

Optics Specifications								
Model number	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							
	Warm white							
	Red							
	Amber							
Luminous flux (Cooldaylight)	220lm/ 300lm	330lm/ 400lm	450lm/ 600lm	600lm/ 750lm	700lm/ 900lm	1,000lm/ 1,200lm	1,400lm/ 1,800lm	1,800lm/ 2,200lm
Illumination(at 1m) (Cooldaylight)	80Lux/ 100Lux	120Lux/ 150Lux	150Lux/ 200Lux	200Lux/ 250Lux	250Lux/ 350Lux	380Lux/ 550Lux	500Lux/ 700Lux	600Lux/ 900Lux
Specifications								
Model number	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	11.5W	17W	22W	28W
Insulation resistance	Min. 100MΩ(500V DC mega ohm meter)							
Withstanding voltage	DC: 500VAC, 60Hz, 1 minute							
Operating temperature	-30°C to +50°C							
Protection rating	IP67/IP69K							
Materials	Lens-PC, Side cover-PC, Heatsink-Al, Bracket-PC							
Certifications	CE UL							
Weight(Approx.)	0.16kg	0.20kg	0.26kg	0.33kg	0.40kg	0.56kg	0.76kg	0.94kg



Technical Diagram

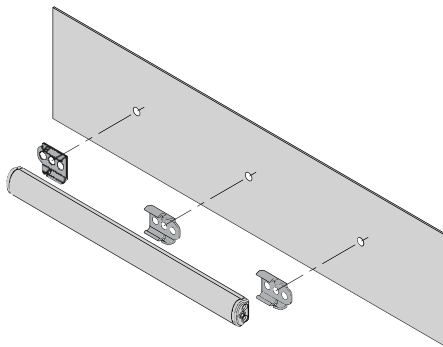
Units: mm



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

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

Mounting Structure



- 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.

Example for mounting outside

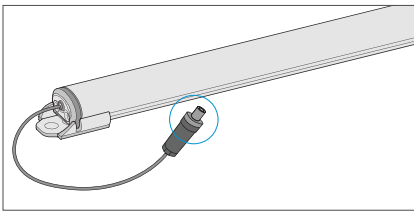


Example for mounting inside

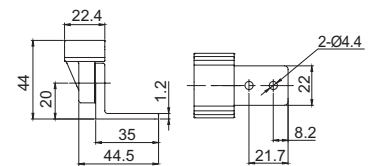
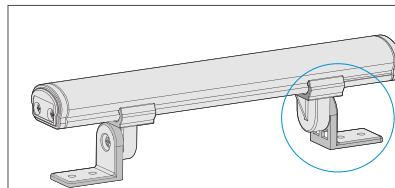


Customization

- Cable end M12 connector attached type:
Customized cable end M12 connector attached type available



- Foldable Bracket:
Adjustable from 0° to 180° degrees



Ordering Specification

QCML	-	200	-	PY	-	24
[Model number]		[Product length]		[Light color]		[Voltage]
QCML-Translucent lens QCMLC-Transparent lens		200-228mm 300-328mm 400-428mm 500-528mm 600-628mm 900-928mm 1,200-1,228mm 1,500-1,528mm		W - Cooldaylight PY - Warm white R - Red A - Amber		24-DC24V

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

QCML-7C

Waterproof LED light bar with 7 color configurations

PRODUCT SPECIFICATION

QCML-7C

Materials Lens-PC, Side cover-PC, Heatsink-Al, Bracket-PC

Ambient operating temperature -20°C to +50°C

Protection rating IP67/IP69K

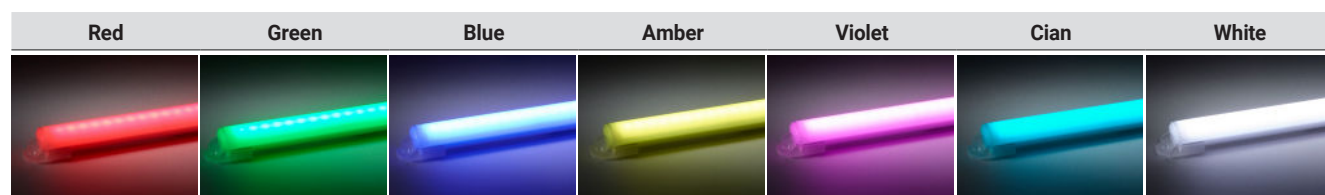
Certificates CE, UL



- Save installation cost and space by utilizing this single LED light bar with 7 configurable colors
- Side cover and lens are 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
- Detachable mounting bracket structure enables to adjust mounting hole space freely
- Protection rating: IP67, IP69K
- Standard entry cable included. Can customize the product with the M12 connector if requested(Female M12 connector is not provided)



QCML-7C

QCML-7C Waterproof LED Light Bars for Multi-use

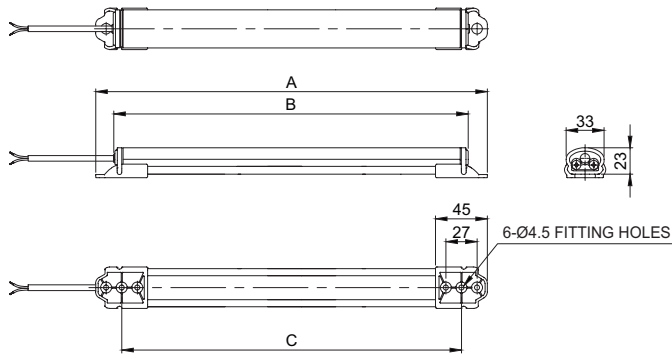


Optics Specifications								
Model number	QCML-200-7C	QCML-300-7C	QCML-400-7C	QCML-500-7C	QCML-600-7C	QCML-900-7C	QCML-1200-7C	QCML-1500-7C
Lens color				Translucent				
Light color/ Color temperature	Red	618-635 nm						
	Green	510-530 nm						
	Blue	453-465 nm						
	Amber	563-573 nm						
	Violet	478-488 nm						
	Cian	375-385 nm						
	White	470-480 nm						
Specifications								
Model number	QCML-200-7C	QCML-300-7C	QCML-400-7C	QCML-500-7C	QCML-600-7C	QCML-900-7C	QCML-1200-7C	QCML-1500-7C
Voltage				DC24V				
Range for operation voltage				DC21V-30V				
Power consumption	4.7W	5.6W	9.4W	10.3W	11.4W	17W	22.2W	28W
Insulation resistance			Min. 100MΩ(500V DC mega ohm meter)					
Withstanding voltage			DC: 500VAC, 60Hz, 1 minute					
Operating temperature			-20°C to +50°C					
Protection rating			IP67/IP69K					
Materials			Lens-PC, Side cover-PC, Heatsink-Al, Bracket-PC					
Certifications			 					
Weight(Approx.)	0.16kg	0.20kg	0.26kg	0.33kg	0.40kg	0.56kg	0.76kg	0.94kg



Technical Diagram

Units: mm

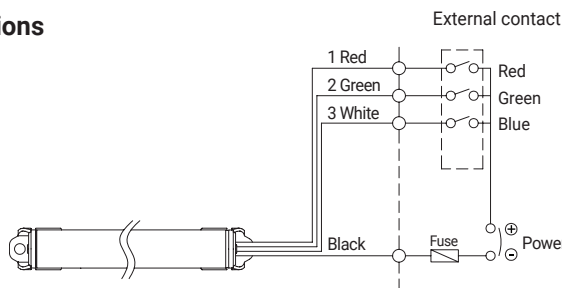


MODEL	A	B	C	D
QCML-200-7C	262	228	45~217	2
QCML-300-7C	362	328	45~317	2
QCML-400-7C	462	428	45~417	2
QCML-500-7C	562	528	45~517	2
QCML-600-7C	662	628	45~617	2
QCML-900-7C	962	928	45~917	3
QCML-1200-7C	1262	1228	45~1217	4
QCML-1500-7C	1562	1528	45~1517	4

D: Recommended quantity of mounting brackets

· External power line - UL2464-AWG22(0.3sqx4C) 450mm

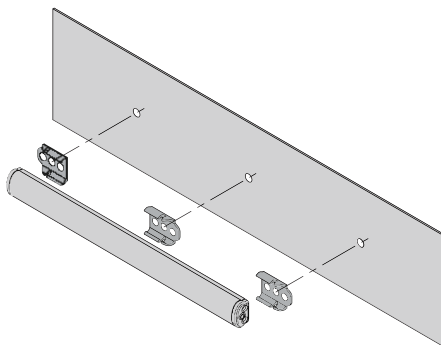
Wiring Instructions



Wiring Configuration for Signal Color

No.	Wiring	Action color
1	1(RED)	RED
2	2(GREEN)	GREEN
3	3(WHITE)	BLUE
4	1(RED)+2(GREEN)	AMBER
5	1(RED)+3(WHITE)	PURPLE
6	2(GREEN)+3(WHITE)	CYAN
7	1(RED)+2(GREEN)+3(WHITE)	WHITE

Mounting Structure



- 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.

Example for mounting outside

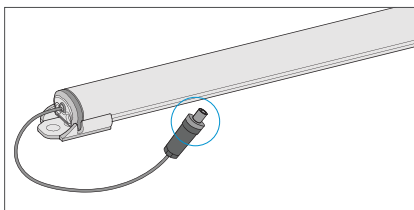


Example for mounting inside

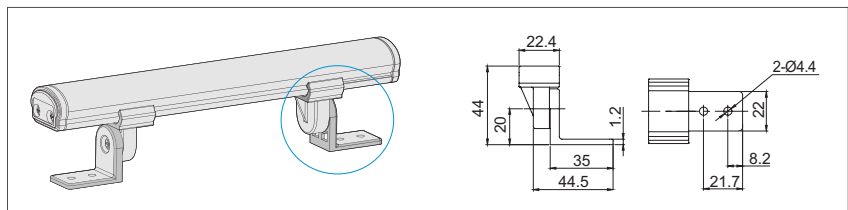


Customization

- Cable end M12 connector attached type: Customized cable end M12 connector attached type available



- Foldable Bracket: Adjustable from 0° to 180° degrees



Ordering Specification

QCML	-	300	-	7C	-	24
[Model number]		[Product length]		[Light color]		[Voltage]
QCML		200-228mm 300-328mm 400-428mm 500-528mm 600-628mm 900-928mm 1,200-1,228mm 1,500-1,528mm		7C- 7 Color standard		24-DC24V

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

QCML-3C

Waterproof LED light bar with 3 color configurations



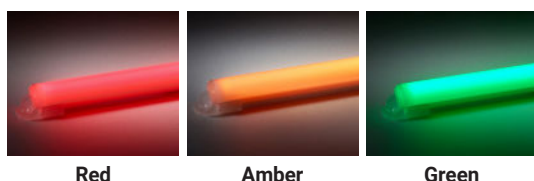
QCML-3C

PRODUCT SPECIFICATION

QCML-3C

Materials Lens-PC, Side cover-PC, Heatsink-STS, Bracket-PC
Ambient operating temperature -20°C to +50°C
Protection rating IP67/IP69K
Certificates CE

- Save installation cost and space by utilizing this single LED light bar with 3 configurable colors
- Side cover and lens are 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
- Detachable mounting bracket structure enables to adjust mounting hole space freely
- Protection rating : IP67, IP69K
- Standard model: Side cover cable outlet type (Protection rating: IP67, IP69K)
- Customization: Lens rear cable outlet type (Protection rating: Non-Waterproof)
- Side cover M12 connector outlet type (Protection rating: IP67, IP69K)



Red

Amber

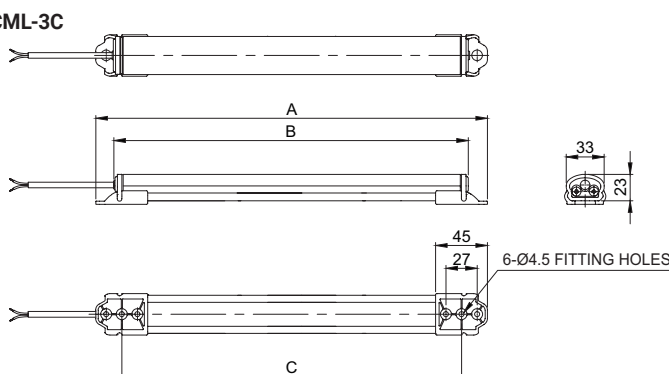
Green

QCML-3C Waterproof LED Light Bars for Multi-use

Optics Specifications					
Model number		QCML-100-3C	QCML-200-3C	QCML-300-3C	QCML-400-3C
Lens color		Translucent			
Light color/ Color temperature	Red	618-635 nm			
	Amber	590-595 nm			
	Green	510-530 nm			
Specifications					
Model number		QCML-100-3C	QCML-200-3C	QCML-300-3C	QCML-400-3C
Voltage		DC24V			
Range for operation voltage		DC21.6V-26.4V			
Power consumption		1W	1.7W	2.5W	3.5W
Insulation resistance		Min. 100MΩ(500V DC mega ohm meter)			
Withstanding voltage		DC: 500VAC, 60Hz, 1 minute			
Operating temperature		-20°C to +50°C			
Protection rating		IP67/IP69K			
Materials		Lens-PC, Side cover-PC, Heatsink-STS, Bracket-PC			
Certifications		CE			
Weight(Approx.)		0.10kg	0.20kg	0.24kg	0.30kg

Technical Diagram

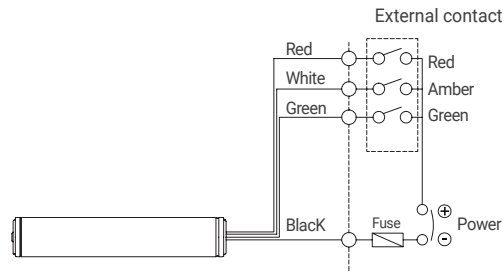
Units: mm



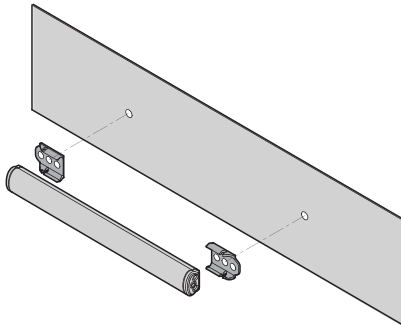
MODEL	A	B	C
QCML-100-3C	157	123	45-112
QCML-200-3C	262	228	45-217
QCML-300-3C	362	328	45-317
QCML-400-3C	462	428	45-417

· External power line - UL2464-AWG22(0.3sqx4C) 450mm

Wiring Instructions



Mounting Structure



- 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.

Example for mounting outside

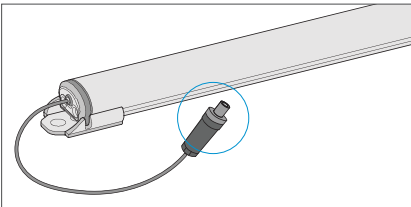


Example for mounting inside

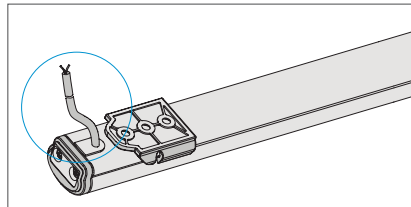


Customization

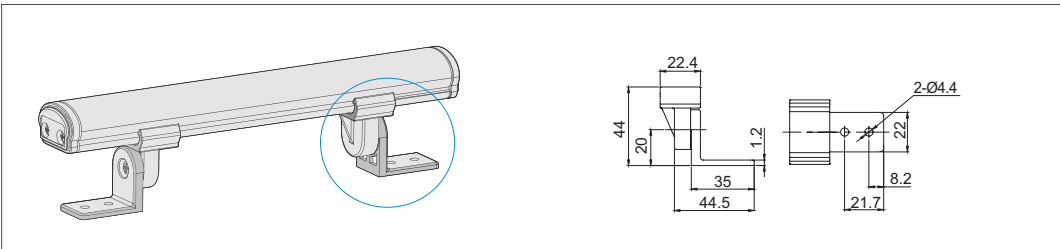
- Cable end M12 connector attached type:
Customized cable end M12 connector attached type available



- Lens rear side cable outlet type :
Customized model that is a lens rear side cable outlet type available.
(Cable hole specifications are different from standard model, so please inquire separately.)



- Foldable Bracket: Adjustable from 0° to 180° degrees



Ordering Specification

QCML	-	300	-	3C	-	24
[Model number]		[Product length]		[Light color]		[Voltage]
QCML		100-123mm 200-228mm 300-328mm 400-428mm		3C- 3 Color standard		24-DC24V

QGL / QGLC

General lights for built-in AC power converter in compact structure

PRODUCT SPECIFICATION

QGL | QGLC

Materials Lens-PC, Side cover-ABS, Heatsink-Al, Bracket-STS201

Ambient operating temperature -30°C to +50°C

Certificates CE


QGL Translucent lens
QGLC Transparent lens

- Using aluminum base that protects against heat and stable illumination
- Suitable alternative to fluorescent lighting for situations that require a compact structure with high illumination
- LED direct AC connect system, no need other power device
- 4 kinds of products length 200/300/400/500mm
- Lens options available based on use case- Transparent lens(QGLC) or translucent lens(QGL)
- Removable mount bracket where mounting distance can be adjusted
- Standard entry cable included. Can customize the product with the M12 connector if requested(Female M12 connector is not provided)

QGL / QGLC LED Light Bars for Indoor

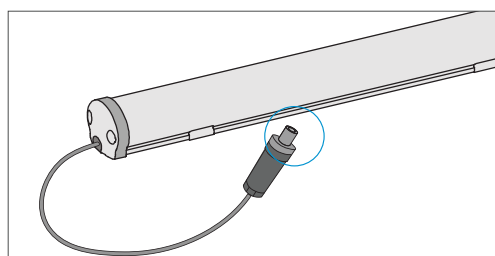
Optics Specifications									
Model number	QGL-200	QGLC-200	QGL-300	QGLC-300	QGL-400	QGLC-400	QGL-500	QGLC-500	
Lens color	Translucent	Transparent	Translucent	Transparent	Translucent	Transparent	Translucent	Transparent	
Light color	Cooldaylight								
Color temperature	6,000-7,000K								
Luminous flux	DC	260lm	330lm	400lm	500lm	600lm	750lm	800lm	900lm
	AC	-	-	450lm	550lm	700lm	800lm	900lm	1,000lm
Illumination (at 1m)	DC	70Lux	85Lux	140Lux	170Lux	200Lux	250Lux	280Lux	350Lux
	AC	-	-	180Lux	200Lux	250Lux	300Lux	310Lux	400Lux

Specifications				
Model number	QGL-200 / QGLC-200	QGL-300 / QGLC-300	QGL-400 / QGLC-400	QGL-500 / QGLC-500
Voltage	DC24V	DC24V	DC24V	DC24V
	-	AC220V	AC220V	AC220V
Range for operation voltage	DC21.5V-26.5V/AC98V-121V/AC198V-245V			
Power	DC24V	4W	6W	8W
consumption	AC220V	-	8W	10W
Insulation resistance	Mim. 100MΩ(500V DC mega ohm meter)			
Withstanding voltage	DC: 500VAC, 60Hz, 1 minute/AC: 1,500VAC, 60Hz, 1 minute			
Operating temperature	-30°C to +50°C			
Protection rating	Non-Waterproof			
Materials	Lens-PC, Side cover-ABS, Heatsink-Al, Bracket-STS201			
Certifications	CE			
Weight(Approx.)	0.12kg	0.17kg	0.23kg	0.28kg

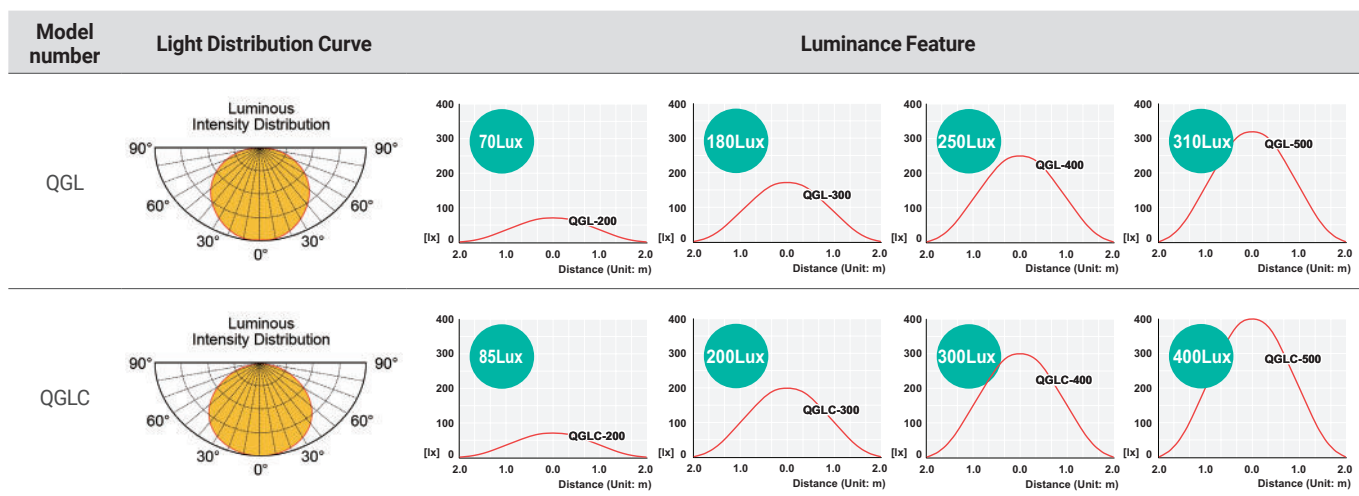
※ CE compliant: DC24V, AC220V

M12 connector equipped (Customization)

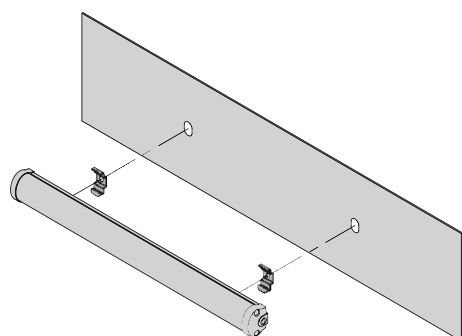
- Customized cable end M12 connector attached type available.



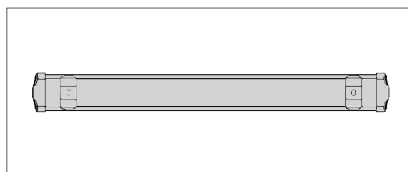
Light Distribution and Illuminance



Mounting Structure



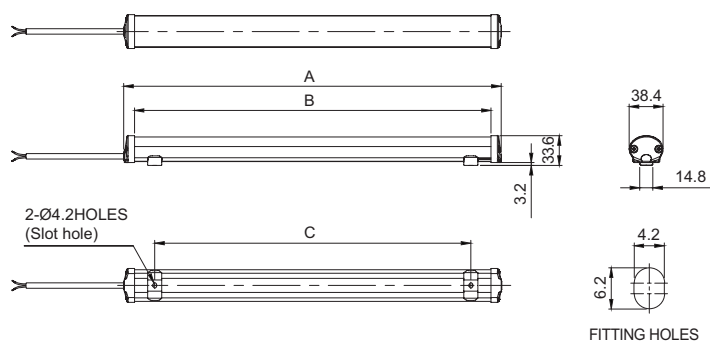
- Adopts removable mounting bracket and sliding structure, adjustable mounting distance.
- Standard bracket: STS201 (2pcs included)



Technical Diagram

· QGL / QGLC-200/300/400/500

Units: mm



MODEL	A	B	C
QGL/ QGLC-200	200	177	16~130
QGL/ QGLC-300	300	277	16~230
QGL/ QGLC-400	400	377	16~330
QGL/ QGLC-500	500	477	16~430

- External power line - DC type : UL2464 AWG22(0.3sq x 2C) 450mm
- AC type : VCTFK(0.75sq x 2C) 450mm

Ordering Specification

QGL	-	300	-	220
[Model number]		[Product length]		[Voltage]
QGL-Translucent lens		200-200mm		24-DC24V
QGLC-Transparent lens		300-300mm		220-AC220V
		400-400mm		
		500-500mm		

QEL / QELT / QELS / QELTS



QEL / QELT / QELS / QELTS

PRODUCT SPECIFICATION

QEL | QELT
QELS | QELTS

Materials Lens-PC, Side cover-ABS, Bracket-STS201

Ambient operating temperature -30°C to +50°C

Certificates CE, KC

- Wide direct light distribution for high illumination in the distribution panel
- Options for operation are power line threading type, terminal box equipped type, on-off switch equipped type
- LED direct AC connect system, no need other power device
- Adopts constant current circuit for stable illumination in unstable power
- 4 kinds of products length 200/300/400/500mm for each condition
- Removable mount bracket that adjust mount distance
- Standard entry cable included. Can customize the product with the M12 connector if requested(Female M12 connector is not provided)

Specifications

QEL External Power Line



QELT Terminal Box Equipped



QELS External Power Line Switch Equipped



QELTS erminal Box Equipped, Switch Equipped



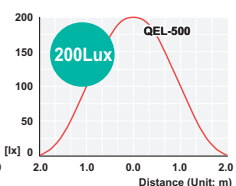
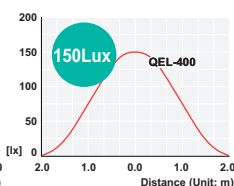
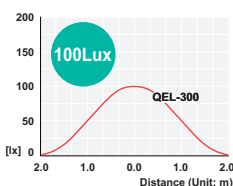
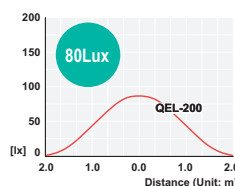
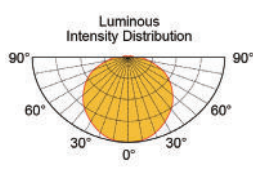
Light Distribution and Illuminance

Model number


Light Distribution Curve

Luminance Feature

QEL
QELT
QELS
QELTS



QEL / QELT / QELS / QELTS LED Light Bars for Distribution Panel

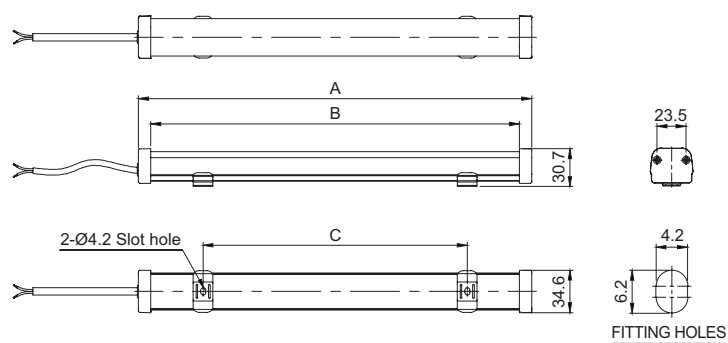
Optics Specifications					
Model number		QEL-200 / QELT-200 QELS-200 / QELTS-200	QEL-300 / QELT-300 QELS-300 / QELTS-300	QEL-400 / QELT-400 QELS-400 / QELTS-400	QEL-500 / QELT-500 QELS-500 / QELTS-500
Lens color		Translucent	Translucent	Translucent	Translucent
Light color			Cooldaylight		
Color temperature			6,000-7,000K		
Luminous flux	DC	180lm	300lm	420lm	500lm
	AC	180lm	300lm	420lm	500lm
Illumination (at 1m)	DC	80Lux	100Lux	150Lux	200Lux
	AC	75Lux	100Lux	150Lux	190Lux
Specifications					
Model number		QEL-200 / QELT-200 QELS-200 / QELTS-200	QEL-300 / QELT-300 QELS-300 / QELTS-300	QEL-400 / QELT-400 QELS-400 / QELTS-400	QEL-500 / QELT-500 QELS-500 / QELTS-500
Voltage		DC24V, AC110V, AC220V			
Range for operation voltage		DC21.5V-26.5V, AC98V-121V, AC198V-245V			
Power consumption	DC24V	4W	5.5W	8W	9.5W
	AC110V	3W	3.5W	4.5W	5.5W
	AC220V	3.5W	5W	6.5W	8.5W
Insulation resistance		Min. 100MΩ(500V DC mega ohm meter)			
Withstanding voltage		DC: 500VAC, 60Hz, 1 minute/AC: 1,500VAC, 60Hz, 1 minute			
Operating temperature		-30°C to +50°C			
Protection rating		Non-Waterproof			
Materials		Lens-PC, Side cover-ABS, Bracket-STS201			
Certifications		CE 			
Weight(Approx.)		0.08kg	0.10kg	0.13kg	0.15kg
		0.10kg	0.12kg	0.15kg	0.17kg

※ CE compliant: DC24V, AC220V, KC compliant: AC220V(QEL/ QELS only)

Technical Diagram

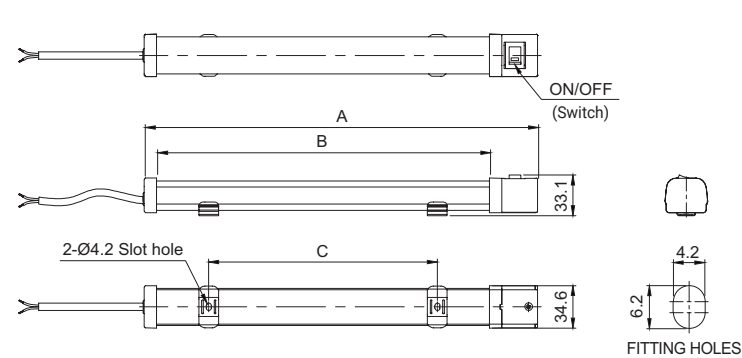
Units: mm

QEL(Built-in terminal type)



MODEL	A	B	C
QEL-200	220	200	16-170
QEL-300	320	300	16-270
QEL-400	420	400	16-370
QEL-500	520	500	16-470

QELS(Built-in on/off switch and terminal type)



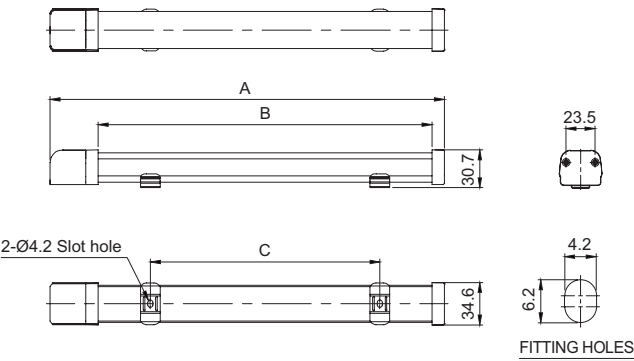
MODEL	A	B	C
QELS-200	249	200	16-170
QELS-300	349	300	16-270
QELS-400	449	400	16-370
QELS-500	549	500	16-470

QEL / QELT / QELS / QELTS

Technical Diagram

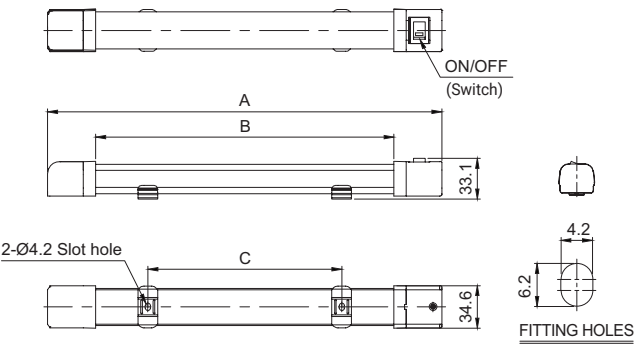
Units: mm

·QELT(Built-in terminal type)



MODEL	A	B	C
QELT-200-UL	249	200	16-170
QELT-300-UL	349	300	16-270
QELT-400-UL	449	400	16-370
QELT-500-UL	549	500	16-470

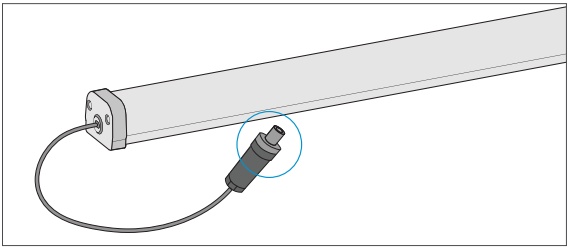
·QELTS(Built-in on/off switch and terminal type)



MODEL	A	B	C
QELTS-200	278	200	16-170
QELTS-300	378	300	16-270
QELTS-400	478	400	16-370
QELTS-500	578	500	16-470

M12 connector equipped (Customization)

· Customized cable end M12 connector attached type available.



Ordering Specification

QEL	-	300	-	220
[Model number]		[Product length]		[Voltage]
QEL-External power line		200-200mm		24-DC24V
QELT-Terminal box equipped		300-300mm		110-AC110V
QELS-External power line, Switch equipped		400-400mm		220-AC220V
QELTS-Terminal box, Switch equipped		500-500mm		



QML60

PRODUCT SPECIFICATION

QML60

Materials Housing-Al, Lens-PC**Ambient operating temperature** -30°C to +60°C**Protection rating** IP65**Certificates** CE**Illuminance** 3,900Lux (with 25 degree lens)

1,800Lux (with 45 degree lens-customization)

Compliant with RoHS directive

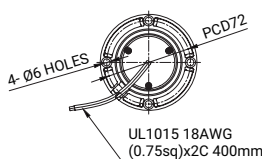
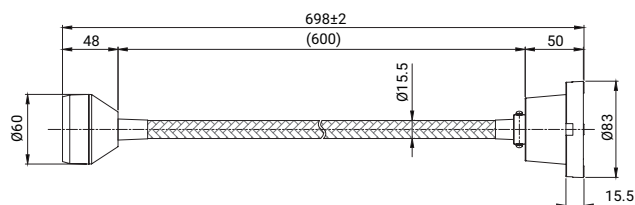
- Gooseneck light with 360-degree omnidirectional illumination
- Intensive illumination allows for a visibility in a dark area
- Condensing lens or diffusion lens type are possible to be provided as control parts and light source parts are separated(diffusion lens type is optionally provided)
- Robust waterproof sealing realizes stable operation in a harsh environment
- Minimize the size of the light source by separating the control and light sources
- ON/OFF switch is optionally provided

QML60 Water and VibrationLED Work Lights

Optics Specifications	
Model number	QML60
Lens color	Transparent
Light color	Cooldaylight
Color temperature	5,300-6,100K
Luminous flux	500lm
Illumination(at 1m)	3,900Lux(with 25 degree lens), 1,800Lux (with 45 degree lens-customization)
Specifications	
Model number	QML60
Voltage	DC24V
Range for operation voltage	DC21V-DC30V
Power consumption	6.5W
Insulation resistance	Min. 100MΩ(500V DC mega ohm meter)
Withstanding voltage	DC: 500V AC, 60Hz, 1minute
Operating temperature	-30°C to +60°C
Protection rating	IP65
Materials	Housing-Al(DEICASTING), Lens-PC
Certifications	CE
Weight(Approx.)	0.87Kg

Technical Diagram Units: mm

QML60



Ordering Specification

QML60	-	24
[Model number]		[Voltage]
QML60		24-DC24V

Cautions in use

- Please read user manual carefully prior to operation to ensure safe and correct use. Failure to follow safety instructions may lead to electric shock because of fire and short circuit. Specification and dimensions listed in this catalogue subject to change without notice for product quality improvement.
- The newest product information is available on our website.

QWL20 / QWL20-DT



QWL20 / QWL20-DT

PRODUCT SPECIFICATION

QWL20

Materials Housing-Al, Lens-PC, Bracket-STSS


Ambient operating temperature -40°C to +75°C

Protection rating IP67

Certificates CE, UL

- Water / Dust proof LED work light that resists against severe storm and heavily dusty environment
- IP67 protection rating, waterproof & dust resistant model that can be used where dusty and flooded area
- Polycarbonate lens allows excellent vibration and impact resistance.
- Long lifetime with a high intensity LED light source allows for easy maintenance
- Features excellent durability in construction environment with heavy machineries such as excavators, cranes, off-road vehicles

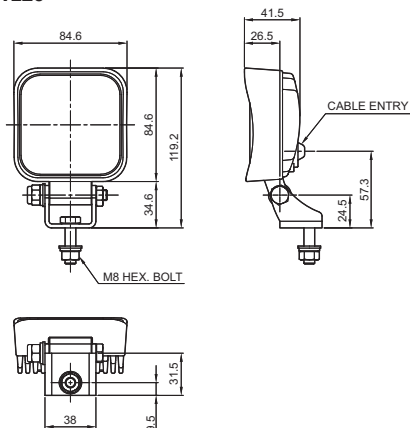
QWL20 / QWL20-DT Water and Dust proof LED Work Lights

Optics Specifications			
Model number	QWL20	QWL20-DT	
Lens color	Translucent		
Light color	Cooldaylight		
Color temperature	5,500-6,500 K		
Luminous flux	650lm		
Illumination(at 1m)	4,300Lux		
Specifications			
Model number	QWL20	QWL20-DT	
Voltage	DC12V-24V		
Range for operation voltage	DC10V-30V		
Power consumption	Max.11.5W		
Insulation resistance	Min. 50MΩ(500V DC mega ohm meter)		
Withstanding voltage	DC: 500VAC, 60Hz, 1 minute		
Operating temperature	-40°C to +75°C		
Protection rating	IP67		
Materials	Housing-AL, Lens-PC, Bracket-ST3		
Certifications	CE 		
Weight(Approx.)	0.40Kg		

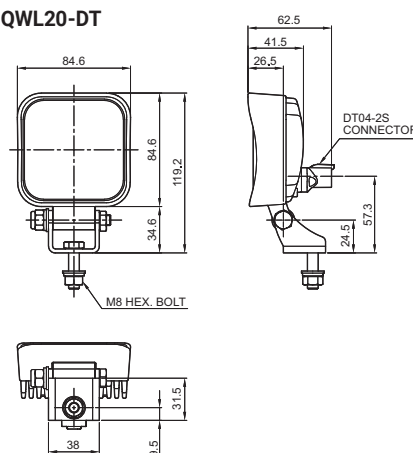
Technical Diagram

Units: mm

·QWL20



·QWL20-DT



Ordering Specification

QWL20-DT	-	12/24
[Model number]		[Voltage]
QWL20		12/24-DC12V-24V
QWL20-DT		

Cautions in use

- Please read user manual carefully prior to operation to ensure safe and correct use. Failure to follow safety instructions may lead to electric shock because of fire and short circuit. Specification and dimensions listed in this catalogue subject to change without notice for product quality improvement.
- The newest product information is available on our website.

QWL40 / QWL40-DT



QWL40 / QWL40-DT

PRODUCT SPECIFICATION

QWL40

Materials Housing-Al, Lens-PC, Bracket-ST3S


Ambient operating temperature -40°C to +65°C

Protection rating IP68

Certificates CE, UL

- Water / Dust proof LED work light that resists against severe storm and heavily dusty environment
- IP68 protection rating, waterproof & dust resistant model that can be used where dusty and flooded area
- Polycarbonate lens allows excellent vibration and impact resistance.
- Long lifetime with a high intensity LED light source allows for easy maintenance
- Excellent durability that is suitable for harsh environment such as an excavator, crane, and off-road vehicle

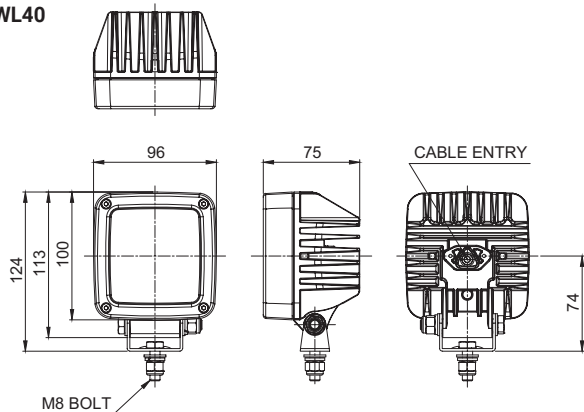
QWL40 / QWL40-DT Water and Dust proof LED Work Lights

Optics Specifications			
Model number	QWL40		QWL40-DT
Lens color		Transparent	
Light color		Cooldaylight	
Color temperature		6,000-7,000K	
Luminous flux		2,650lm	
Illumination(at 1m)		4,000Lux	
Specifications			
Model number	QWL40		QWL40-DT
Voltage		DC12V-24V	
Range for operation voltage		DC11.5V-26.5V	
Power consumption		Max.40W	
Insulation resistance		Min. 50MΩ(500V DC mega ohm meter)	
Withstanding voltage		DC: 500VAC, 60Hz, 1 minute	
Operating temperature		-40°C to +65°C	
Protection rating		IP68	
Materials		Housing-Al, Lens-PC, Bracket-ST3S	
Certifications		CE 	
Weight(Approx.)		0.70Kg	

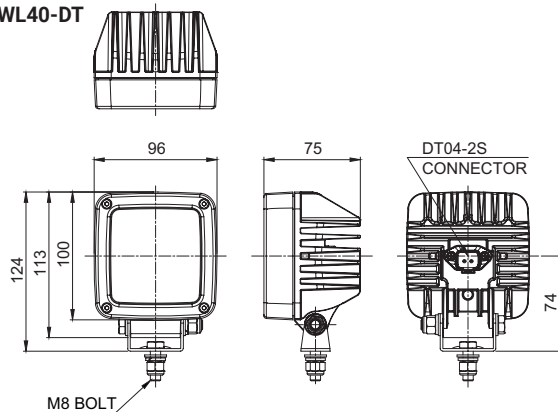
Technical Diagram

Units: mm

•QWL40



•QWL40-DT



Ordering Specification

QWL40	-	12/24
[Model number]		[Voltage]
QWL40		12/24-DC12V-24V
QWL40-DT		

Cautions in use

- Please read user manual carefully prior to operation to ensure safe and correct use. Failure to follow safety instructions may lead to electric shock because of fire and short circuit. Specification and dimensions listed in this catalogue subject to change without notice for product quality improvement.
- The newest product information is available on our website.



QLS-SLM-250


PRODUCT SPECIFICATION

QLS-SLM-250

Materials Side cover-PC Lens-PC, Bracket-Al**Ambient operating temperature** $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$ **Protection rating** Non Water-Proof**Certificates** CE, UL

- Control cabinet, machinery inside light and work light purpose
- Slim and compact structure realize aesthetically pleasing design
- Long product lifetime with the application of a high intensity LED light source
- 360-degree rotational mounting bracket realizes light emit angle can be adjusted
- Excellent visibility by a structure with direct distributes LED light to user direction
- No external ground wire is necessary as it is inside of the unit already

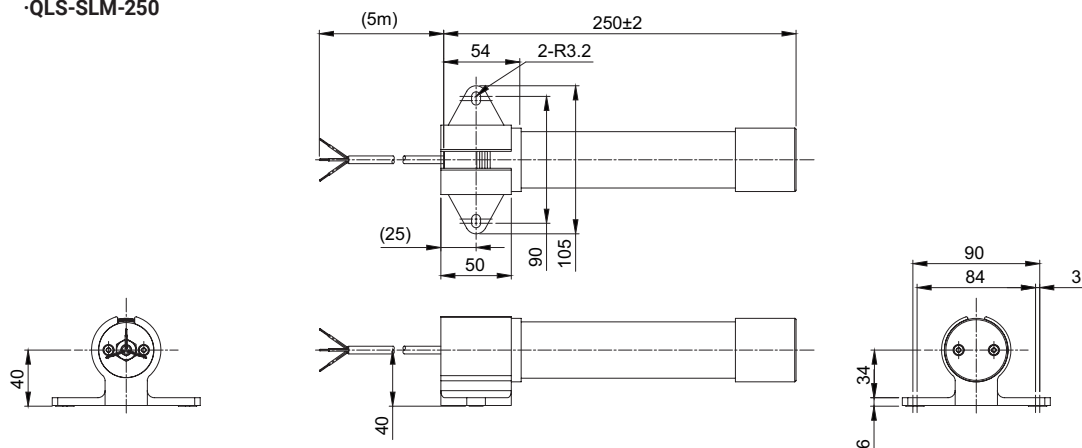
QLS-SLM-250 LED Work Lights

Optics Specifications		
Model		QLS-SLM-250
Lens color		Translucent
Light color		Cooldaylight
Color temperature		6,000-7,000K
Luminous flux	DC	650lm
Illumination(at 1m)	DC	310Lux
Specifications		
Model		QLS-SLM-250
Voltage		DC24V
Range for operation voltage		DC21.6V-26.4V
Current		360mA
Power consumption		8.6W
Insulation resistance		Min. 100MΩ(500V DC mega ohm meter)
Withstanding voltage		DC: 500VAC, 60Hz, 1 minute
Protection rating		Non-Waterproof
Materials		Side cover-PC, Lens-PC, Bracket-Al
Certifications		CE 
Weight(Approx.)		0.20Kg

Technical Diagram

Units: mm

·QLS-SLM-250



Ordering Specification

QLS-SLM	-	250	-	24
[Model number]		[Product length]		[Voltage]
QLS-SLM		250-250mm		24-DC24V

Non-Sparking Explosion Proof LED Work Light

QMFL300-Ex-24



QMFL300-Ex-24

PRODUCT SPECIFICATION

QMFL300-Ex-24

Materials Housing-Al, Side cover-Al,

Lens-Tempered glass, Bracket-SPC-1

Ambient operating temperature $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$



Protection rating KCs - Ex nR II T6

NEPSI - Ex nR IIC T6 Gc, IP67/IP69K

Certificates KCs, NEPSI

- Water, vibration and oil resistant LED work lights with non-sparking ex-proof feature
- Special epoxy sealed structure provides excellent oil resistance
- Aluminum housing and tempered glass improves durability and stability in hazardous areas(Explosive zone)
- Can be used for Zone 2 application with explosion proof rating of nR

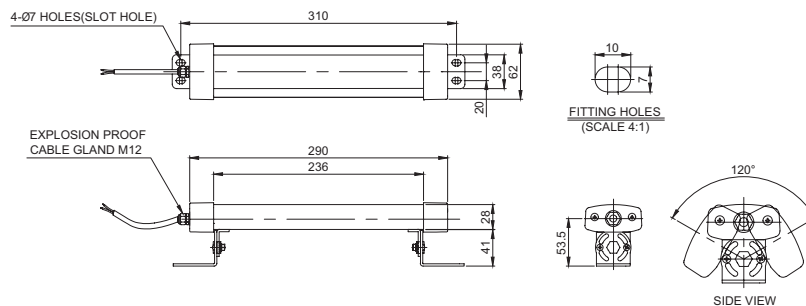
QMFL300-Ex-24 Non-Sparking Explosion Proof LED Work Light

Optics Specifications	
Model number	QMFL300-Ex-24
Lens color	Translucent
Light color	Cooldaylight
Color temperature	6,000-7,000K
Luminous flux	DC 600lm
Illumination(at 1m)	DC 260Lux
Specifications	
Model number	QMFL300-Ex-24
Voltage	DC24V
Range for operation voltage	DC21.5V-26.5V
Power consumption	10W
Insulation resistance	Min. 100MΩ(500V DC mega ohm meter)
Withstanding voltage	DC: 500VAC, 60Hz, 1 minute
Operating temperature	-40°C to $+60^{\circ}\text{C}$
Protection rating	IP67/IP69K
Materials	Housing-Al, Side cover-Al, Lens-Tempered glass, Bracket-SPC-1
Certifications	 
Weight(Approx.)	0.79kg

Technical Diagram

Units: mm

QMFL300-Ex-24



Ordering Specification

QMFL	-	300	-	Ex	-	24	-	KCs
[Model number]		[Product length]		[Ex-proof]		[Voltage]		[Certificates]
QMFL-Anti glare type		300-290mm		Ex-Non-sparking ex-proof type		24-DC24V		KCs NEPSI

Cautions in use

- Contact structure of an explosion proof product must be a qualified part we provide. Please do not disassemble, assemble, modify or repair arbitrarily.

QLEX-SLM Series



QLEX-SLM Series

PRODUCT SPECIFICATION

QLEX-SLM-250
QLEX-SLM-650

Materials Side cover-Al, Lens-PC, Bracket-Al

Ambient operating temperature

-40°C ≤ Tamb ≤ +60°C(QLEX-SLM-250)

-40°C ≤ Tamb ≤ +55°C(QLEX-SLM-650: T6)

-40°C ≤ Tamb ≤ +60°C(QLEX-SLM-650: T5)

Protection rating

ATEX - II 2G Ex db IIC T6 Gb

IECEX - Ex db IIC T6 Gb

KCs - Ex d II C T6(QLEX-SLM-250)

Ex d II C T5/T6(QLEX-SLM-650)

NEPSI - Ex db IIC T6 Gb(QLEX-SLM-250)

Certificates CE, KCs, NEPSI, S-mark, ATEX, IECEX

Cable entry M12xP1.5

- Explosion proof LED luminaires/work light designed for use in explosive gas environments with Ex d IIC rating
- Enhanced durability with aluminum housing and polycarbonate lens tube
- Slim and compact structure realize aesthetically pleasing design
- Semi-permanent service life with long-lasting LED light source
- Features special structure that allows to adjust light angle by turning the light tube

Specifications




QLEX-SLM-250

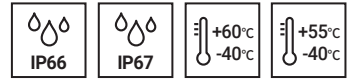


QLEX-SLM-650



QLEX-SLM Series Explosion Proof LED Luminaires/Work Light

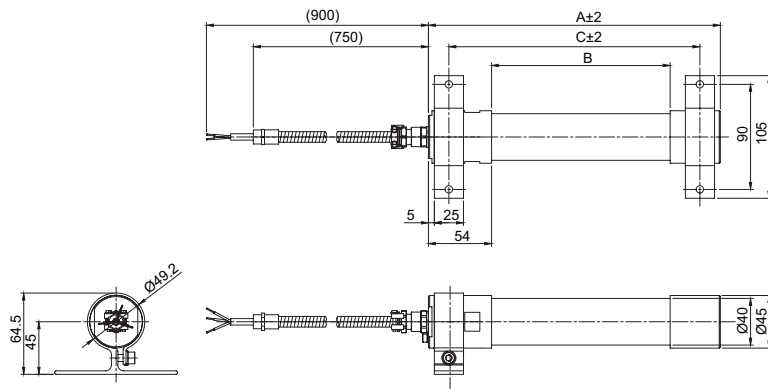
Optics Specifications				
Model number		QLEX-SLM-250		QLEX-SLM-650
Lens color		Translucent		
Light color		Cooldaylight		
Color temperature		6,000-7,000K		
Luminous flux	DC	650lm	1,800lm	
	AC	350lm	1,580lm	
Illumination(at 1m)	DC	310Lux	650Lux	
	AC	240Lux	530Lux	
Specifications				
Model number		QLEX-SLM-250		QLEX-SLM-650
Rated voltage		DC24V	AC220V	DC24V AC220V
Range for operation voltage		DC21.6V-26.4V	AC198V-242V	DC21.6V-26.4V AC198V-242V
Power consumption		8.6W	9W	20W 23W
Insulation resistance		Min. 100MΩ(500V DC mega ohm meter)		
Withstanding voltage		DC: 500VAC, 60Hz, 1minute/AC: 1,500VAC, 60Hz, 1minute		
Protection rating		IP66/67		
Materials		Side cover-Al, Lens-PC, Bracket-Al		
Certifications		  		
Weight(Approx.)		0.50Kg		0.93Kg



Technical Diagram

Units: mm

QLEX-SLM Series



Model number	A	B	C	BRACKET
QLEX-SLM-250	250	153	-	1EA
QLEX-SLM-650	650	553	613	2EA

Ordering Specification

QLEX-SLM	-	250	-	24	-	ATEX
[Model number]		[Product length]		[Voltage]		[Certificates]
QLEX-SLM		250-250mm 650-650mm		24-DC24V 220-AC220V		ATEX IECEX KCs NEPSI

Cautions in use

Contact structure of an explosion proof product must be a qualified part we provide. Please do not disassemble, assemble, modify or repair arbitrarily.



QLEX-350

PRODUCT SPECIFICATION

QLEX-350

Materials Side cover-Al, Lens-PC,

Side cover out-NBR, Bracket-Al

Ambient operating temperature $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$ **Protection rating** KCs - Ex d IIC T6

NEPSI - Ex db IIC T6 Gb

Certificates KCs, NEPSI, CE**Cable entry** M12xP1.5

- Explosion proof LED luminaires/work light designed for use in explosive gas environments with Ex d IIC rating
- Enhanced durability with aluminum housing and polycarbonate lens tube
- Semi-permanent service life with long-lasting LED light source
- Features special structure that allows to adjust light angle by turning the light tube

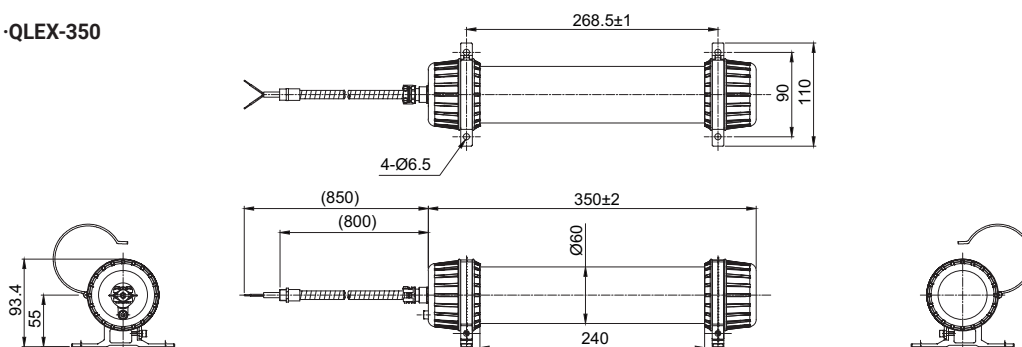
QLEX-350 Explosion Proof LED Luminaires/Work Light

Optics Specifications		
Model		QLEX-350
Lens color		Transparent/Translucent
Light color		Cooldaylight
Color temperature		6,000-7,000K
Luminous flux	DC	650lm
Illumination(at 1m)	DC	230Lux
Specifications		
Model		QLEX-350
Voltage		DC24V
Range for operation voltage		DC21.6V-26.4V
Power consumption		8.6W
Insulation resistance		Min. 100MΩ(500V DC mega ohm meter)
Withstanding voltage		DC: 500VAC, 60Hz, 1 minute
Protection rating		IP66/67
Materials		Side cover-Al, Lens-PC, Side cover out-NBR, Bracket-Al
Certifications		CE
Weight(Approx.)		1.12Kg

Technical Diagram

Units: mm

QLEX-350



· External power line - Dura & Flex-F-Vu (0.5sq) 850mm

Ordering Specification

QLEX	-	350	-	24	-	NEPSI
[Model number]		[Product length]		[Voltage]		[Certificates]
QLEX		350-350mm		24-DC24V		KCs NEPSI

Cautions in use

- Contact structure of an explosion proof product must be a qualified part we provide. Please do not disassemble, assemble, modify or repair arbitrarily.



PRODUCT SPECIFICATION

QLEX-NEC-250



QLEX-NEC-250

Materials Side cover-Al, Lens-PC, Bracket-Al

Ambient operating temperature

-20°C ≤ Tamb ≤ +40°C (INTERTEK-NRTL)

-40°C ≤ Tamb ≤ +60°C (IECEX)

Explosion protection rating

Class I, Division 2 Groups ABCD T6

Class I, Zone 1, AEx db IIC T6 Gb

Ex db IIC T6 Gb



Protection rating IP66/67

Certificates INTERTEK(NRTL), IECEX, CE

Cable entry M20xP1.5, 1/2" NPT

- Explosion proof LED luminaires/work light designed for use in explosive gas environments with Ex d IIC rating
- Enhanced durability with aluminum housing and polycarbonate lens tube
- Slim and compact structure realize aesthetically pleasing design
- Semi-permanent service life with long-lasting LED light source
- Features special structure that allows to adjust light angle by turning the light tube

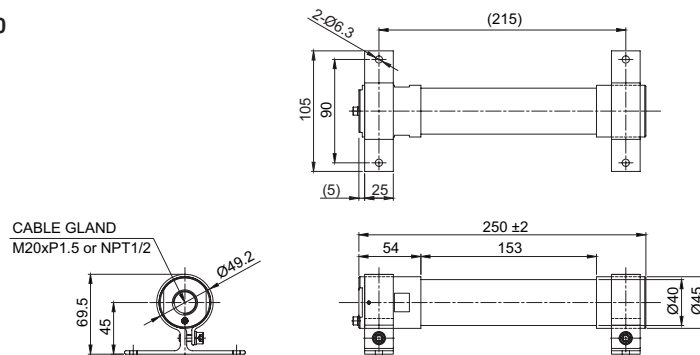
QLEX-NEC-250 Explosion Proof LED Luminaires/Work Light

Optics Specifications	
Model	QLEX-NEC-250
Lens color	Translucent
Light color	Cooldaylight
Color temperature	6,000-7,000K
Illumination(at 1m)	310Lux
Specifications	
Model	QLEX-NEC-250
Voltage	DC24V
Range for operation voltage	DC21.6V-26.4V
Power consumption	8.6W
Insulation resistance	Min. 100MΩ(500V DC mega ohm meter)
Withstanding voltage	DC:500V AC, 60Hz, 1minute
Protection rating	IP66/67
Materials	Side cover-Al, Lens-PC, Bracket-Al
Certifications	 
Weight(Approx.)	0.50Kg

Technical Diagram

Units: mm

QLEX-NEC-250



Ordering Specification

QLEX-NEC	-	250	-	24	-	INTERTEK(NRTL)
[Model number]		[Product length]		[Voltage]		[Certificates]
QLEX-NEC		250-250mm		24-DC24V		INTERTEK(NRTL) IECEX

Cautions in use

- Contact structure of an explosion proof product must be a qualified part we provide. Please do not disassemble, assemble, modify or repair arbitrarily.
- Explosion proof cable gland attached type available (Standard type does not provide explosion proof cable gland)
- Cable entry M20xP1.5, 1/2" NPT

QLEX-TRI-240(PL)



QLEX-TRI-240(PL)




PRODUCT SPECIFICATION

QLEX-TRI-240(PL)

Materials Side cover-Al, Lens-PC, Bracket-PC**Ambient operating temperature** $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$ **Protection rating** Ex d IIC T6**Certificates** KCs, NEPSI, CE

- Explosion proof LED luminaires/work light designed for use in explosive gas environments with Ex d IIC rating
- Enhanced durability with aluminum housing and polycarbonate lens tube
- Slim and compact structure realize aesthetically pleasing design
- Semi-permanent service life with long-lasting LED light source

QLEX-TRI-240(PL) Explosion Proof LED Luminaires/Work Light

Optics Specifications		
Model	QLEX-TRI-240(PL)	
Lens color	Translucent	
Light color	Cooldaylight	
Color temperature	6,000-7,000K	
Luminous flux	DC	650lm
Illumination(at 1m)	DC	310Lux
Specifications		
Model	QLEX-TRI-240(PL)	
Voltage	DC24V	
Range for operation voltage	DC21.5V-26.5V	
Power consumption	8.6W	
Insulation resistance	Min. 100MΩ(500V DC mega ohm meter)	
Withstanding voltage	DC: 500VAC, 60Hz, 1 minute	
Protection rating	IP66/67	
Materials	Side cover-Al, Lens-PC, Bracket-PC	
Certifications	  	
Weight(Approx.)	0.62Kg	

Ordering Specification

QLEX-TRI	-	240(PL)	-	24	-	KCs
[Model number]		[Product length]		[Voltage]		[Certificates]
QLEX-TRI		240-240mm		24-DC24V		KCs NEPSI

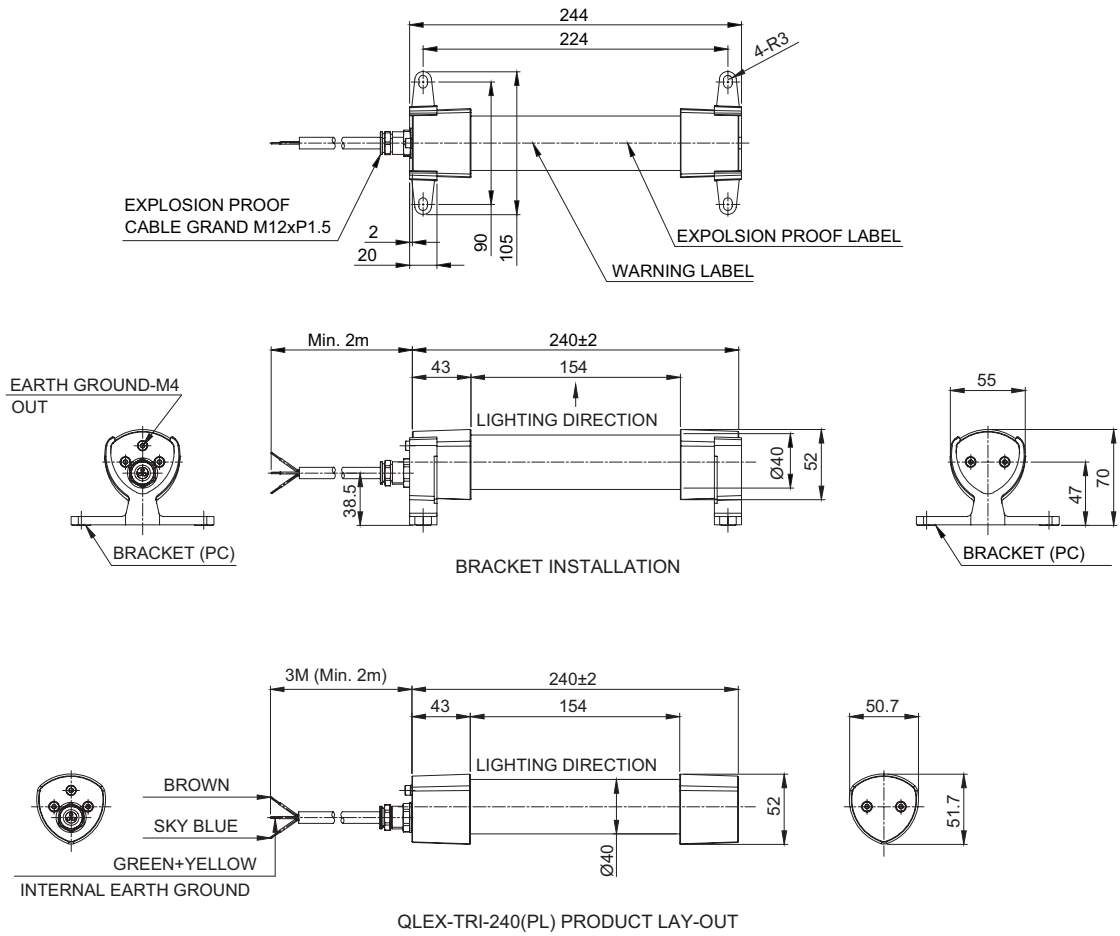
Cautions in use

- Contact structure of an explosion proof product must be a qualified part we provide. Please do not disassemble, assemble, modify or repair arbitrarily.

Technical Diagram

Units: mm

·QLEX-TRI-240(PL)



QLEX-SLM-650-EMG



PRODUCT SPECIFICATION

QLEX-SLM-650-EMG

Materials Housing-Al, Upper cover-Al, Side cover-Al, Lens-PC, Bracket-Al, STS

Ambient operating temperature $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$

Protection rating Ex d IIC T6, IP66

Certificates KCs

Cable entry 1/2" NPT



QLEX-SLM-650-EMG

- AC powered type LED light that is operated by battery in case of abrupt power outage or emergency
- Rated AC power turns on Lighting as well as battery charging for emergency
- Explosion proof LED lighting luminaires designed for use in explosive gas environments with Ex d IIC rating
- Features special structure that allows to adjust light angle by turning the light tube
- Fully enclosed structure allows outdoor application as it provides protection against dirt and water
- Excellent visibility by emitting the LED light directly into user's eyesight
- Emergency battery hours: Max. 2.0HR (Battery capacity: 2,700mAh)
- Battery charge time: Min. 12.5hours (discharge to full charge, based on 25°C)

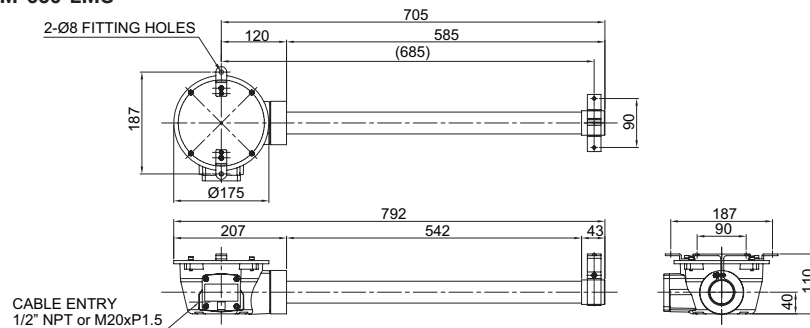
QLEX-SLM-650-EMG Explosion Proof LED Emergency Luminaires

Optics Specifications	
Model	QLEX-SLM-650-EMG
Lens color	Translucent
Light color	Cooldaylight
Color temperature	6,000-7,000K
Luminous flux	1,800lm
Illumination(at 1m)	700Lux
Specifications	
Model	QLEX-SLM-650-EMG
Voltage	AC110V-230V
Range for operation voltage	AC100V-240V
Power consumption	Max.33W
Insulation resistance	Min. 100MΩ(500V DC mega ohm meter)
Withstanding voltage	AC : 1,500VAC, 60Hz, 1 minute
Protection rating	IP66
Materials	Housing-Al, Upper cover-Al, Side cover-Al, Lens-PC, Bracket-Al, STS
Certifications	
Weight(Approx.)	4.50Kg

Technical Diagram

Units: mm

QLEX-SLM-650-EMG

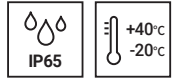


Ordering Specification

QLEX-SLM	-	650-EMG	-	110/230	-	KCs
[Model number]		[Product length]		[Voltage]		[Certificates]
QLEX-SLM		650-650mm		110/230-AC110V-230V		KCs

Cautions in use

- Contact structure of an explosion proof product must be a qualified part we provide. Please do not disassemble, assemble, modify or repair arbitrarily.
- Explosion proof cable gland attached type available (Standard type does not provide explosion proof cable gland)
- Cable entry 1/2" NPT



Suitable for environments which have lingering dust or moisture



QL-PL Series

PRODUCT SPECIFICATION

QL-PL Series

Materials Housing-PC, Side cover-PC, Bracket-STS
Ambient operating temperature $-20^{\circ}\text{C} \leq \text{Tamb} \leq +40^{\circ}\text{C}$
Protection rating IP65
Certificates KS, CE

- Maintains bright intensity illumination for long-term use with dust resistant
- Fully enclosed structure with protection rating of IP65, suitable for environments which have lingering dust or moisture
- Specially designed for use of parallel connection between the products
- Applicable to internal lighting for semiconductor equipment and display equipment

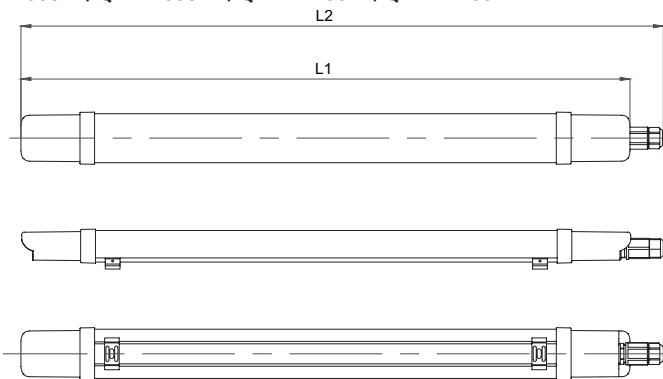
QL-PL Series LED Moisture Proof Lights

Optics Specifications				
Model	QL-PL-600-A	QL-PL-600-W	QL-PL-1200-A	QL-PL-1200-W
Lens color	Translucent			
Light color(Standard)	Warm white	Cooldaylight	Warm white	Cooldaylight
Color temperature(Standard)	3,000K	6,500K	3,000K	6,500K
Luminous flux	1,200lm	1,500lm	3,500lm	3,500lm
Illumination(at 1m)	500Lux	550Lux	1,200Lux	1,400Lux
Specifications				
Model	QL-PL-600-A	QL-PL-600-W	QL-PL-1200-A	QL-PL-1200-W
Rated voltage	AC220V/60Hz			
Range for operation voltage	110mA	110mA	190mA	190mA
Power consumption	25W	25W	46W	46W
Operating temperature	-20°C to $+40^{\circ}\text{C}$			
Protection rating	IP65			
Materials	Housing-PC, Side cover-PC, Bracket-STS			
Certificates				
Weight(approx.)	0.147kg	0.147kg	0.283kg	0.283kg

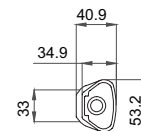
Technical Diagram

Units: mm

QL-PL-600-A / QL-PL-600-W / QL-PL-1200-A / QL-PL-1200-W



MODEL	QL-PL-600	QL-PL-1200
L1(mm)	455	1,055
L2(mm)	620	1,220



Ordering Specification

QL-PL	-	600	-	W	-	220
[Model number]		[Product length]		[Light color]		[Voltage]
QL-PL		600 : 600mm 1,200 : 1,200mm		W: Cooldaylight A: Warm white		220-AC220V

Cautions in use

- Please read user manual carefully prior to operation to ensure safe and correct use. Failure to follow safety instructions may lead to electric shock because of fire and short circuit. Specification and dimensions listed in this catalogue subject to change without notice for product quality improvement.
- The newest product information is available on our website.

LED Light Bars for Distribution Panel

QELT-UL

UL (RU certified) LED lighting that emits high brightness in the distribution panel space



QELT-UL

PRODUCT SPECIFICATION

QELT-UL

Materials Lens-PC, Side cover-ABS, Bracket-STS201

Ambient operating temperature -30°C to +50°C

Certificates UL(RU)

- Wide direct light distribution for high illumination in the distribution panel
- Built-in terminal allows easy wiring
- LED direct AC connect system, no need other power device
- 4 kinds of products length 200/300/400/500mm for each condition
- Removable mount bracket that adjust mount distance

Specifications

QELT-UL Terminal Box Equipped



Detachable mounting bracket



Detachable mounting bracket structure with free mounting hole spacing

QELT-UL LED Light Bars for Distribution Panel

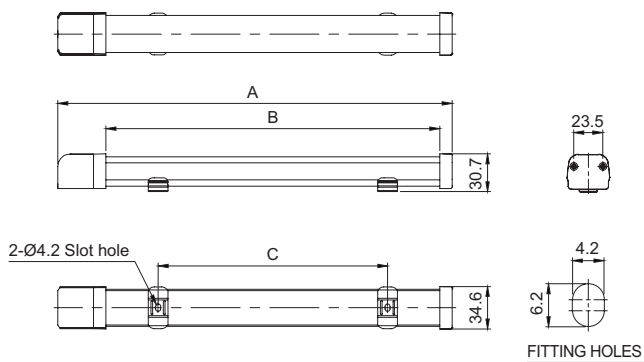
Optics Specifications				
Model number	QELT-200-UL	QELT-300-UL	QELT-400-UL	QELT-500-UL
Lens color	Translucent	Translucent	Translucent	Translucent
Light color	Cooldaylight			
Color temperature	6,000-7,000K			
Luminous flux	370lm	780lm	1,180lm	1,310lm
Illumination(at 1m)	95Lux	200Lux	300Lux	335Lux
Specifications				
Model number	QELT-200-UL	QELT-300-UL	QELT-400-UL	QELT-500-UL
Voltage	AC110V-120V			
Range for operation voltage	AC98V-132V			
Power consumption	5W	9W	13W	15W
Insulation resistance	Min. 100MΩ(500V DC mega ohm meter)			
Withstanding voltage	1,500VAC, 60Hz, 1 minute			
Operating temperature	-30°C - +50°C			
Protection rating	Non-Waterproof			
Materials	Lens-PC, Side cover-ABS, Bracket-STS201			
Certifications	UL(RU)			
Weight(Approx.)	0.10kg	0.12kg	0.15kg	0.17kg

※ UL(RU Listed): AC110-120V

Technical Diagram

Units: mm

·QELT-UL



MODEL	A	B	C
QELT-200-UL	249	200	16-170
QELT-300-UL	349	300	16-270
QELT-400-UL	449	400	16-370
QELT-500-UL	549	500	16-470

Ordering Specification

QELT	-	300	-	110/120	-	UL
[Model number]		[Product length]		[Voltage]		[Certificates]
QELT-Terminal box equipped		200-200mm 300-300mm 400-400mm 500-500mm		110/120-AC110V-120V		UL-UL(RU)

Global Networks

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Busan Business Center
704, Nakdong-daero, Sasang-gu, Busan, Korea(Eomgung-Dong)



Qlight China Corporation

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Qlight China Factory (Qidong)
#33, Haiyan Road, Qidong High-tech Industrial Development Zone,
Qidong, Jiangsu Province, China

Qlight Clients

Heavy industry/Ship building/Automotive/Steel/Machinery/Petrochemical/Power plants/Electronics/Semiconductor/Emergency Vehicles

SAMSUNG

HYUNDAI

KIA

POSCO

COUPANG

SK

LG Chem

SK innovation

HYUNDAI STEEL

KSOE

SAMSUNG HEAVY INDUSTRIES

HYUNDAI CONSTRUCTION EQUIPMENT

DOOSAN

ExxonMobil

gm

BMW

FOXCONN

HUAWEI

Honeywell

L'ORÉAL PARIS

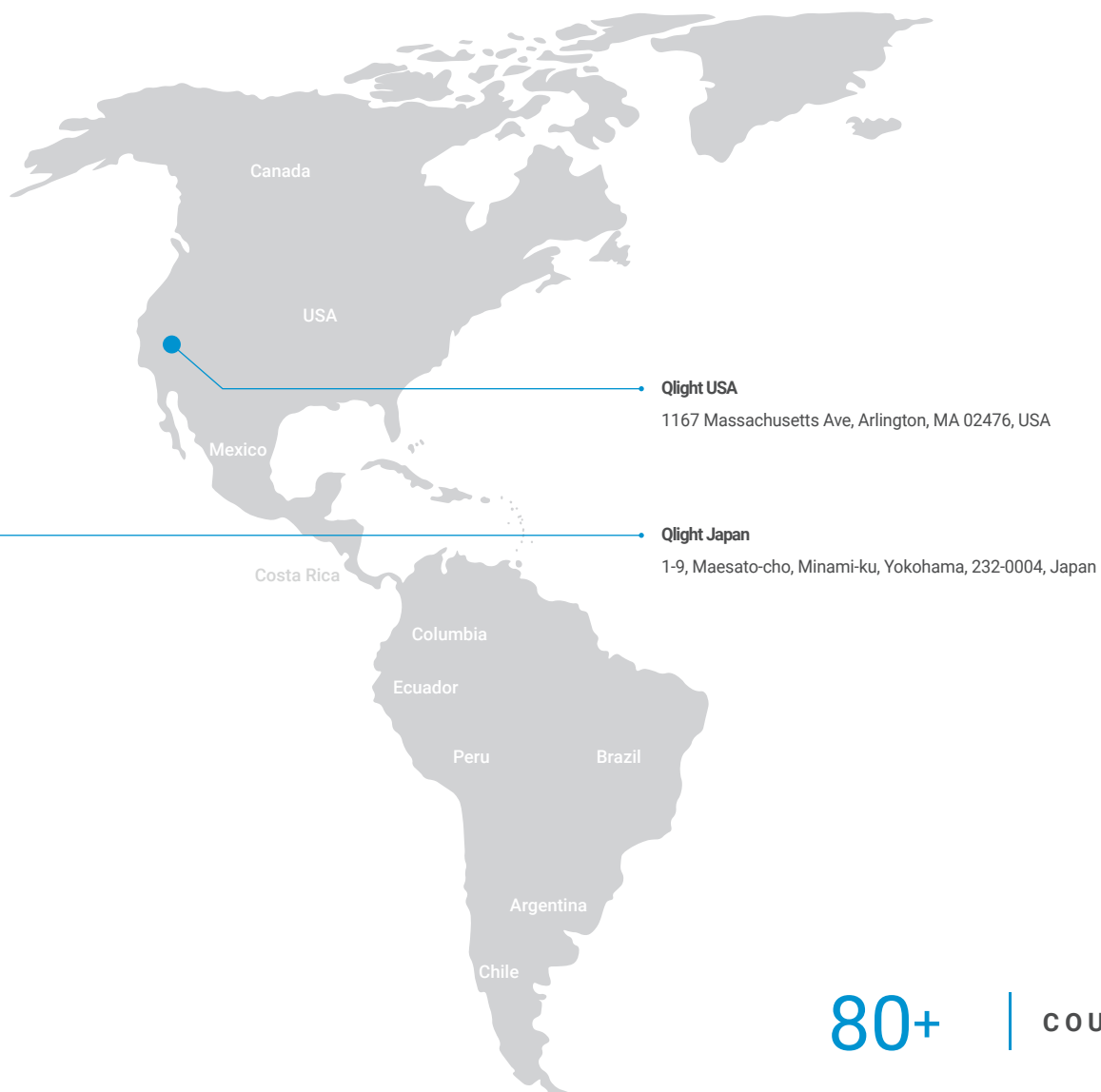
ISUZU

ADNOC

KONECRANES

Kulicke & Soffa

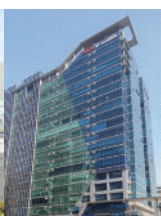
Qlight products have been exported all over the world in recognition of excellent technical capabilities and exceptional quality.
Qlight products are going to be distributed a lot more countries in the future.



80+ | COUNTRIES
250+ | DISTRIBUTORS



Gimhae Production Headquarters



Seoul Global Headquarters



Busan Business Center



Qlight China Factory

Technical Certifications

Qlight products are designed to meet strict quality and technical standards. Thus, the Qlight brand is widely recognized for its high quality and technical innovations from leading institutions around the world.



ISO
International Organization for
Standardization



IECEx
International Explosion Proof
Certifications(IECEx)



ATEX
The European Regulatory
Framework or Manufacture, Installation
and Use of Equipment in Explosive
Atmospheres



NEPSI
National Center for Explosion Protection
and Safety of Instrumentation



NRTL
Certified by designated U.S. laboratory



KCs
Korea safety Certifications



TIIS
Technology Institution of
Industrial Safety



CCS
China Classification Society



TS
Industrial Safety Technology Institute
of Taiwan



FCC
Federal Communications Commission



S-mark
Safety Certifications



KC
Korea Certifications Mark



CCC
China Compulsory Certificate



CCCF
China Certifications Center for
Security & Protection



UL
Underwriters Laboratories



CE
European Commission



ICAO
International Civil Aviation Organization



RoHS2
Restriction of Hazardous Substances
Directive

Qlight Catalog Introduction

Qlight produces a wide variety of product categories which offers the customer the ability to select the suitable device for their application needs and environments. There are signal tower lights, Signal Beacons and Sounders, Heavy-Duty and Explosion Proof Signalings, Warning light bars, Aviation Obstruction Lights, Smart Factory Product, Industrial LED lights, and Performance Line - E Series



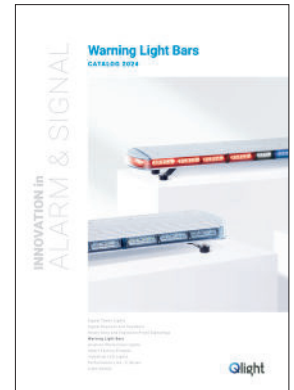
Signal Tower Lights



Signal Beacons and Sounders



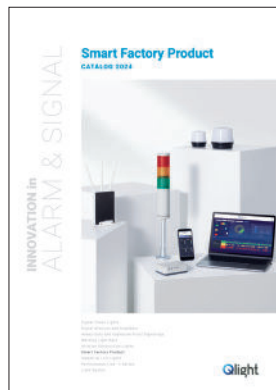
Heavy-Duty and Explosion Proof Signalings



Warning Light Bars



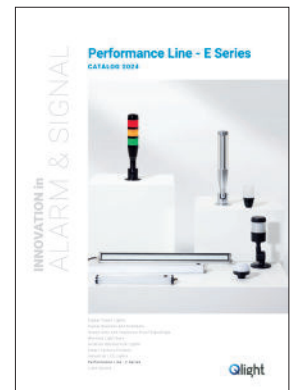
Aviation Obstruction Lights



Smart Factory Product



Industrial LED Lights



Performance Line - E Series

You could download and find the latest Catalog on the Qlight website.

* The latest product information could be accurately checked on the Qlight website (www.qlight.com). Please refer to the user manual attached with the product before installation and use.

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