

Innovation in alarm & signal

QLIGHTTEC
CATALOGUE 2018.02
Industrial LED Lights



Company Introduction



Qlight Gives You a Brighter Future!

Qlight has been a world-leading provider of visual and audible status indicating systems and solutions for the last three decades. We pride ourselves in developing products which help our customer's improve productivity, safety, and quality control in the industrial automation and commercial industries. Our strong dedication to innovative products, quality assurance, well-established supply chain, customizable manufacturing and strong customer relationships have helped us earn the top market share in Korea and China. These core values have also been fundamental to our continued growth into new markets. Qlight's products are certified by the International Quality Management System (ISO14001), IECEX, ATEX, UL, NEPSI, CE, Lloyd, KIMM, and KOSHA which display our dedication to strin-

gent quality control and product development based on safety-pursuing industry standards.

Our assembly lines in Busan, South Korea and Shanghai, China presently provide a variety of more than 450 of products to more than 40 countries, based on sales offices in South Korea (Seoul, Busan) China (Shanghai, Shenzhen, Shenyang, Tianzhen, Tianjin, Wenzhou), and the U.S. (Silicon Valley). The Qlight brand reflects 30 years of research and development, certification, and manufacturing experience.

We will continue to establish ourselves as an industry-leading provider by pushing the boundaries of technology in order to enhance our customer's efficiency and safety in every industry and region of the world.



Qlight Global Networks

Country	Company name	Address	Phone
Korea	Qlight Co., Ltd.	HQ A-412, 579, Gyeongin-ro, Guro-gu, Seoul, Korea	+82-80-328-2222
		Factory 185-25, Mukbang-Ro, Sangdong-Myeon, Gimhae-si, Gyeongsangnamdo, Korea	+82-80-328-1111
USA	Qlight USA, Inc.	#341, 3003 North First St., San Jose, CA 95134 USA	+1-408-519-5740
China	SHANGHAI Qlight Electronics Co.,Ltd	#19, Nanda Road, Baoshan Area, Shanghai, China	+86-21-6651-7100

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



Company History

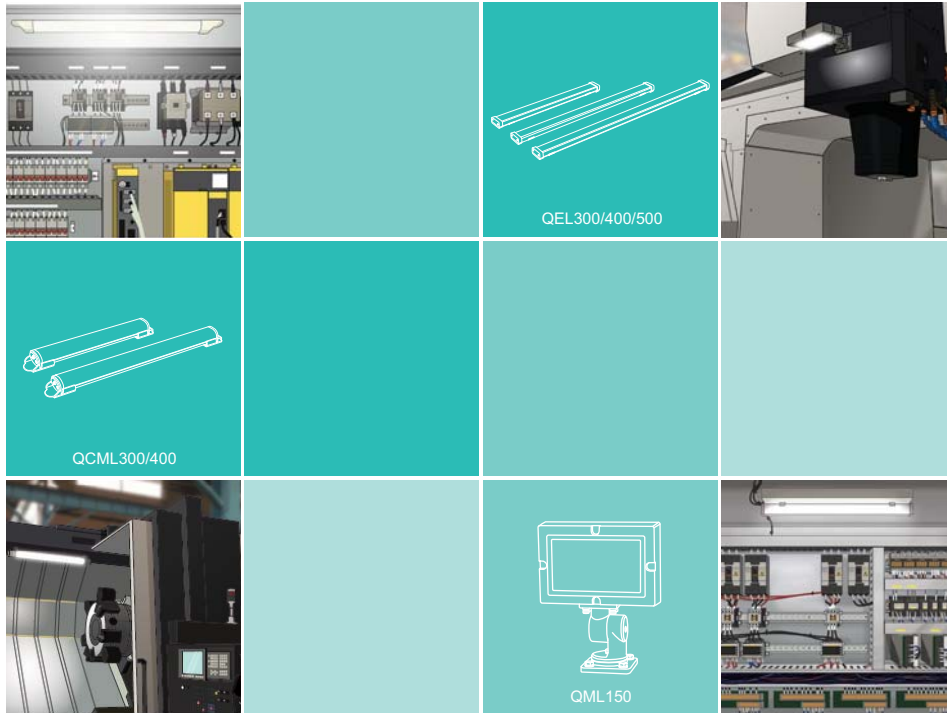
Qlight has been striving to accomplish our mission to provide visual and audible status indicating systems and solutions to enhance our customer's work safety and efficiency for the last three decades.

1986-1992	1993-2005	2006-2010	2011 to Present	- Future
Business foundation and consolidation	Growing as a signal transmission device specialist	A great leap forward & business reconstruction	New engines for growth	The 2 nd growth and globalization
				
			2017 08 ISO 14001 : 2015 certificate aquired 02 Obtained ICAO certification for SAOL1 2016 11 Obtained the patent for "multi-functional modular signal tower light" (Patent # : 10-1676863) 09 Obtained the patent for "Emergency Vehicle Lightbar" (Patent # : 10-1662283) 07 Obtained UL certificate for LED signal lights Q series Obtained the patent for "Bar style LED work lights" (Patent # : 10-1598123) 2015 09 The second headquarter factory built 06 Limit switch models (3 items including SW2TS) acquired certificates from RMRS 03 LED work lights (QML150/250, QMFL 500/600) UL listed 2014 10 Established the Qlight USA, Inc. in San Jose, CA. Horn which that emits light patented (Patent # : 10-1452447) Fan/ tilt type bracket patented (Patent # : 10-1452445) 09 LED strobe light with multi-lens patented (Patent # : 10-1444391) 08 Explosion proof product family including SNE, SNES, SESA, SEA, SPNA acquired IECEx certificates 06 Selected as a promising export company by Small & Medium Business Admin., Korea 01 Non-sparking explosion proof tower lights including ST45ML and STB45ML acquired KGS and NEPSI certificates 2013 01 Portable warning lights for agricultural machine applications patented (Patent # : 10-1226959) 2012 12 Explosion proof warning lights (SNE, SNES) acquired CCS certificates LED work light with cylindrical lens attached patented (Patent # : 10-1219020) 09 Explosion proof warning lights (SESA, SEA, SPNA) and heavy-duty warning lights (SH1, SED, SEWN30) certified by CCS 01 LED warning light with LED reflector patented (Patent # : 10-1108102) 2011 11 SNE, SNES certified by NEPSI, SNE, SNES, SESA, SEA, SPNA certified by KOSHA 08 KCC (Korea Communications Commission) certificate acquired 07 Light equipment applying prism system patented (Patent # : 10-1051056) 2010 05 QEB certified by KIMM LED warning light, bulb revolving warning light patented (Patent # : 10-0961472) 03 Research and development center established 2009 12 SSEL certified by KIMM LED tower lights compliant with the RoHS directive 2008 04 Motor drive system patented (Patent # : 20-0439536) 03 LED revolving type lens patent acquired (patent # : 10-0808669) 2007 11 Explosion proof electric horn (SPNA) acquired NEPSI certificates 05 Tower light models including ST45, ST56, ST80) UL listed 2005 07 Heavy-duty products for vessel applications acquired Lloyd's (UK's Maritime Classification Society) certificates 04 ABS certificates acquired for 18 products including SH1 2004 06 ISO 9001 : 2000 certificates acquired 2001 02 Established Shanghai Qlight Electronic Co.,Ltd. in China 2000 07 Established Qlight Limited 1993 11 Nominated for developing domestic explosion proof warning lights by Korean Ministry of Science & Technology 1988 03 Developed limit switches for vessel applications 1986 07 Established Qlight	

CATALOGUE

LED Work Lights for Industrial Purpose

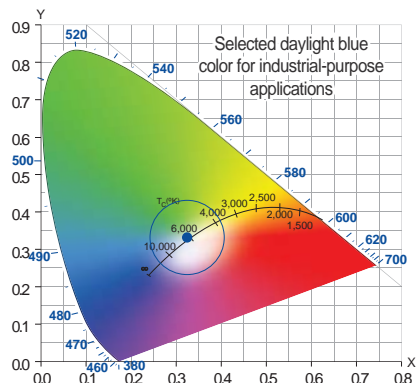
INNOVATION IN ALARM & SIGNAL



Technical information	4
References	6
Product specifications	10

Technical Information on LED Work Lights

CIE 1931 Color Space Chart



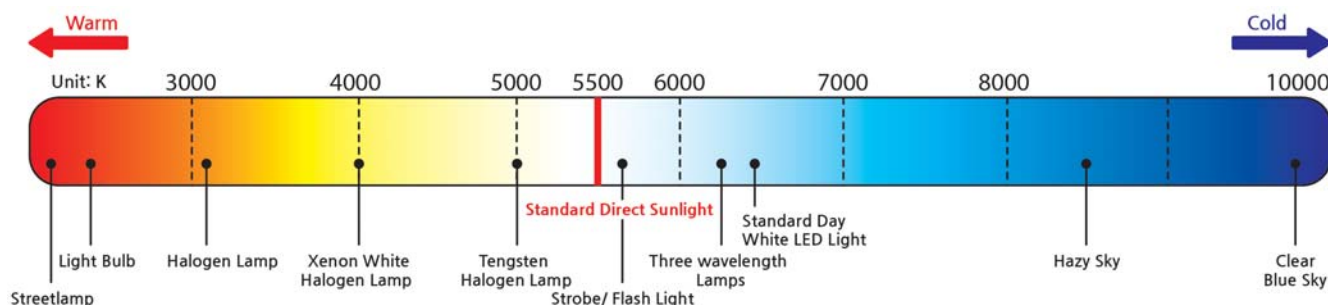
LED Colors are represented by the CIE 1931 RGB color space and CIE 1931 XYZ color space created by the International Commission on Illumination (CIE in 1931).

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 is referred as the color temperature.

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 natrium 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)

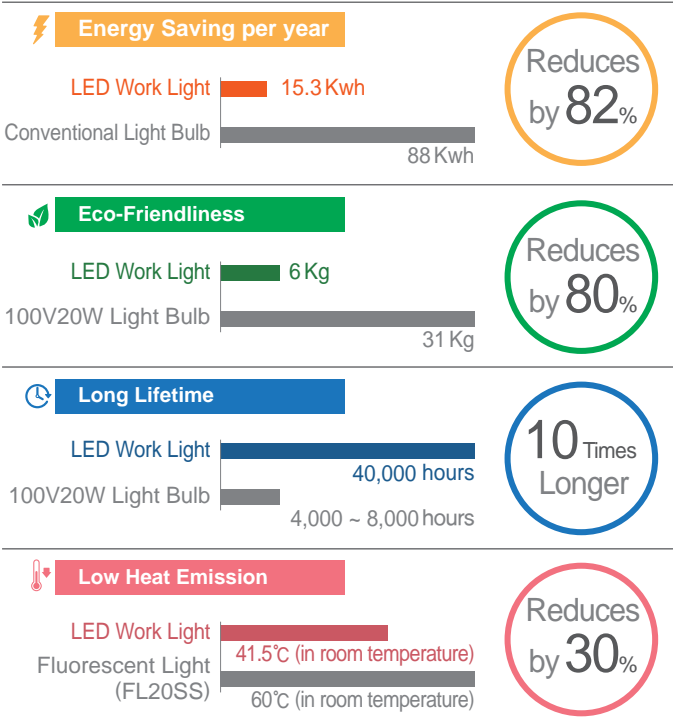
LED Color Wavelength

No.	Color	Wavelength(mm)
1	Red	618-632
2	Amber	585-595
3	Green	518-530
4	Blue	453-465

LED Color Temperature

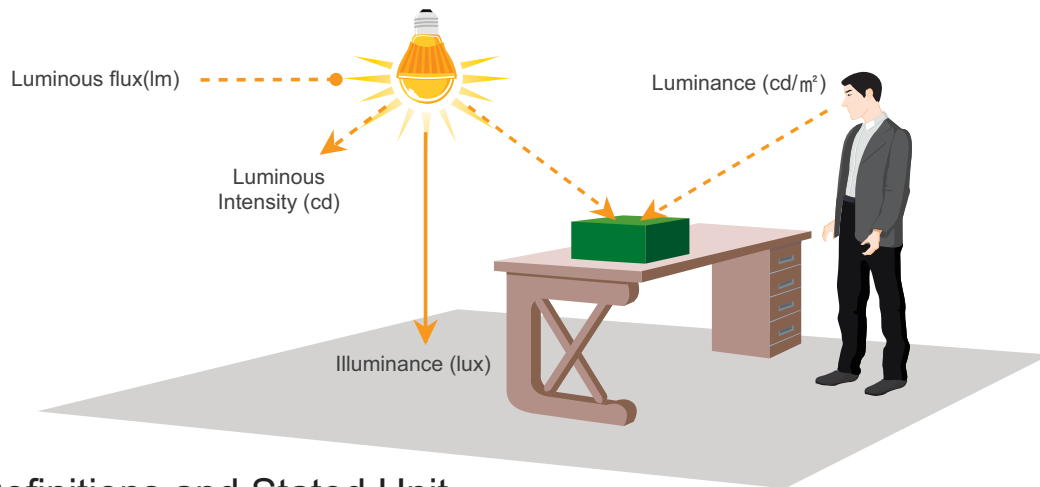
No.	Color	Color Temperature(K)
1	incandescent	2,500-3,500
2	warmwhite	3,500-4,500
3	daylight	4,500-5,500
4	cooldaylight	5,500-7,000

LED Light Energy Saving Chart



Technical Information on LED Work Lights

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.



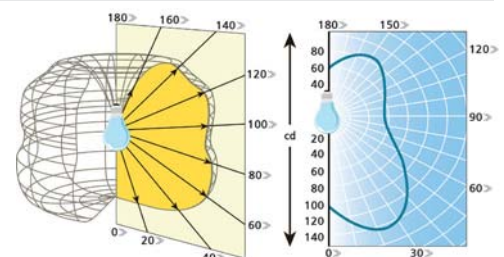
High Color Rendering(Ra80)



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.



LED Work Lights for Industrial Purpose Specification List



Model number(series)	QML-150	QML-250	QMHL-150	QMHL-250
Voltage	DC24V, AC110V, AC220V	DC24V, AC110V, AC220V	DC24V, AC110V, AC220V	DC24V, AC110V, AC220V
Power consumption	11-13W	23-29W	11-12W	23-25W
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)×36(H)	255(W)×166(L)×36(H)	155(W)×156(L)×36(H)
	Bracket (MF type)	155(W)×191(L)×36(H)	255(W)×201(L)×36(H)	155(W)×191(L)×36(H)
Material	Housing : Al, Lens : Tempered glass	Housing : Al, Lens : Tempered glass	Housing : Al, Lens : Tempered glass	Housing : Al, Lens : Tempered glass
Lens color	Translucent	Translucent	Transparent	Transparent
Light color	Cooldaylight	Cooldaylight	Cooldaylight	Cooldaylight
Efficacy (lm/W)	620Lux	890Lux	1,000Lux	1,900Lux
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
Certificates	CE, UL	CE, UL	CE, UL	CE, UL
Customization	M12 connector equipped	M12 connector equipped	M12 connector equipped	M12 connector equipped
Page	P10-13	P10-13	P10-13	P10-13



Model number(series)	QFL-200/ 300/ 400/ 500/ 600/ 1200	QFLC-200/ 300/ 400/ 500/ 600/ 1200	QMFLN-200/ 300/ 400/ 500/ 600
Voltage	DC24V, AC110V, AC220V	DC24V, AC110V, AC220V	DC24V
Power consumption	5.5-53W	5.5-53W	5.6 - 25W
Dimension (mm)	Length	240-1190	190-600
	Width	60	38
	Height	63	67.4
Materials	Lens : PC, Side cover : Al	Lens : PC, Side cover : Al	Housing: Al, Lens : Tempered glass
Lens color	Translucent	Transparent	Transparent
Light color	Cooldaylight	Cooldaylight	Cooldaylight
Efficacy (lm/W)	120-1,200Lux	150-1,560Lux	270-1,300Lux
Mounting structure	Mount bracket	Mount bracket	Mount bracket
Protection rating	IP67	IP67	IP67/ IP69K
Certificates	CE	CE	-
Customization	M12 connector equipped	M12 connector equipped	M12 connector equipped
Page	P14	P15	P16-17



Model number(series)	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	4-11W	4-11W	4.8-11W	4.8-11W
Dimension (mm)	Length	200-500	200-500	200-500
	Width	39.4	39.4	39.4
	Height	24.4	24.4	24.4
Material	Lens : PC, Side cover : ABS	Lens : PC, Side cover : ABS	Lens : PC, Side cover : ABS	Lens : PC, Side cover : ABS
Lens color	Translucent	Transparent	Translucent	Transparent
Light color	Cooldaylight	Cooldaylight	Cooldaylight	Cooldaylight
Efficacy (lm/W)	50-215Lux	65-265Lux	80-290Lux	100-375Lux
Mounting structure	Direct mount	Direct mount	Direct mount	Direct mount
Protection rating	IP65	IP65	IP65	IP65
Certificates	CE, UL	CE, UL	CE, UL	CE, UL
Customization				
Page	P18-20	P18-20	P18-20	P18-20

LED Work Lights for Industrial Purpose Specification List



Model number(series)	QCML-200/ 300/ 400/ 500/ 600/ 900/ 1200/ 1500	QCMLC-200/ 300/ 400/ 500/ 600/ 900/ 1200/ 1500	QGL-200/ 300/ 400/ 500	QGLC-200/ 300/ 400/ 500
Voltage	DC24V	DC24V	DC24V, AC110V, AC220V	DC24V, AC110V, AC220V
Power consumption	5.5-28W	5.5-28W	4-12W	4-12W
Dimension (mm)	Length	257-1,557	200-500	200-500
	Width	33	38.4	38.4
	Height	26	33.6	33.6
Materials	Lens : PC, Side cover : PC	Lens : PC, Side cover : PC	Lens : PC, Side cover : ABS	Lens : PC, Side cover : ABS
Lens color	Translucent	Transparent	Translucent	Transparent
Light color	Cooldaylight, Warm white, Red, Amber	Cooldaylight, Warm white, Red, Amber	Cooldaylight	Cooldaylight
Efficacy (lm/W)	85-550Lux	100-600Lux	70-300Lux	85-370Lux
Mounting structure	Mount bracket	Mount bracket	Mount bracket	Mount bracket
Protection rating	IP67/ IP69K	IP67/ IP69K	Non waterproof	Non waterproof
Certificates	CE	CE	CE	CE
Customization				
Page	P21-23	P21-23	P24-25	P24-25



Model number(series)	QEL-200/ 300/ 400/ 500	QELT-200/ 300/ 400/ 500	QELS-200/ 300/ 400/ 500	QELTS-200/ 300/ 400/ 500
Voltage	DC24V, AC110V, AC220V	DC24V, AC110V, AC220V	DC24V, AC110V, AC220V	DC24V, AC110V, AC220V
Power consumption	3.5-8.5 W	3.5-8.5W	3.5-8.5W	3.5-8.5W
Dimension (mm)	Length	220-520	249-549	278-578
	Width	34.6	34.6	34.6
	Height	30.7	30.7	33.1
Materials	Lens : PC, Side cover : ABS	Lens : PC, Side cover : ABS	Lens : PC, Side cover : ABS	Lens : PC, Side cover : ABS
Lens color	Translucent	Translucent	Translucent	Translucent
Light color	Cooldaylight	Cooldaylight	Cooldaylight	Cooldaylight
Efficacy (lm/W)	80-200Lux	80-200Lux	80-200Lux	80-200Lux
Mounting structure	Mount bracket	Mount bracket	Mount bracket	Mount bracket
Protection rating	Non waterproof	Non waterproof	Non waterproof	Non waterproof
Certificates	CE, KC	CE	CE, KC	CE
Customization				
Page	P26-28	P26-28	P26-28	P26-28

Non Sparking LED work light



Model number(series)	QMFL-300-Ex-24	
Voltage	DC24V	
Power consumption	10W	
Dimension (mm)	Length	290
	Width	38
	Height	64
Materials	Housing : Al, Lens : Tempered glass	
Lens color	Translucent	
Light color	Cool daylight	
Efficacy (lm/W)	260Lux	
Mounting structure	Mount bracket	
Protection rating	IP67/ IP69K	
Certificates	KC(KGS)	
Customization	Ex nR II T6	
Page	P29	

Industrial LED Lights Specification List



Model number	ULEF-1557/ 2557/ 4057/ 5057	ULSF-1557/ 2557/ 4057/ 5057	ULFL-1757-P0001/ P30000	ULPL-1857-GG3120/ 3057-GG3120	ULII-1830-IO1200/ 430-IO900/ 030-IO600/ 0630-IO300
Voltage	AC220V	AC220V	AC220V	AC220V	AC220V
Power consumption	40W	40W	15.2 - 17.5W	18 - 30W	6 - 18W
Dimension (mm)	Length	340 - 1280	1198	1198	300 - 1200
	Width	340 - 640	-	69	22
	Height	22	30	-	55
Material	Housing: PC, Heat sink: Al	Housing: PC, Heat sink: Al	Housing: PC, Heat sink: Al	Housing: PC, Heat sink: Al	Housing: PC, Heat sink: Al
Lens color	Translucent	Translucent	Translucent	Translucent	Translucent
Light color	Cooldaylight	Cooldaylight	Cooldaylight	Cooldaylight	Warm white
Efficacy (lm/W)	120 - 250Lux	375 - 500Lux	570Lux	730 - 1235Lux	120 - 400Lux
Mounting structure	Direct mount	Direct mount	-	Bracket	Bracket
Protection rating	Non waterproof	Non waterproof	Non waterproof	Non waterproof	Non waterproof
Certificates	KS, High efficiency materials	KS, High efficiency materials	KS, High efficiency materials	KS, High efficiency materials	KS
Page	P30-31	P30-31	P32-33	P34-35	P36-37

Explosion Proof High Bay LED Lights



Model number	EXD29	EXD43	EXD57	EXD80	
Voltage	AC110V, AC220V	AC110V, AC220V	AC110V, AC220V	AC110V, AC220V	
Power consumption	29W	43W	57W	80W	
Dimension (mm)	Length	Φ240	Φ285	Φ285	
	Width	261 - 473	269 - 481	269 - 481	269 - 481
	Height	-	-	-	-
Material	Housing: Al, Lens : Tempered glass	Housing: Al, Lens : Tempered glass	Housing: Al, Lens : Tempered glass	Housing: Al, wTempered glass	
Lens color	Transparent	Transparent	Transparent	Transparent	
Light color	Cooldaylight	Cooldaylight	Cooldaylight	Cooldaylight	
Efficacy (lm/W)	1,450Lux	2,150Lux	2,850Lux	4,000Lux	
Mounting structure	Ceiling/ Stanchion / Junction box	Ceiling/ Stanchion / Junction box	Ceiling/ Stanchion / Junction box	Ceiling/ Stanchion / Junction box	
Protection rating	IP66	IP66	IP66	IP66	
Certificates	KCs	KCs	KCs	KCs	
Customization	Ex nR II T6	Ex nR II T6	Ex nR II T6	Ex nR II T6	
Page	P38-40	P41-43	P41-43	P41-43	



Model number	EXD29-JE-CN-EXTB-130	EXD43-JE-CN-EXTB-130	EXD57-JE-CN-EXTB-130	EXD80-JE-CN-EXTB-130	
Voltage	AC110V, AC220V	AC110V, AC220V	AC110V, AC220V	AC110V, AC220V	
Power consumption	29W	43W	57W	80W	
Dimension (mm)	Length	Φ240	Φ285	Φ285	
	Width	261 - 473	269 - 481	269 - 481	269 - 481
	Height	-	-	-	-
Material	Housing: Al, Lens : Tempered glass	Housing: Al, Lens : Tempered glass	Housing: Al, Lens : Tempered glass	Housing: Al, Lens : Tempered glass	
Lens color	Transparent	Transparent	Transparent	Transparent	
Light color	Cooldaylight	Cooldaylight	Cooldaylight	Cooldaylight	
Efficacy (lm/W)	1,450Lux	2,150Lux	2,150Lux	2,150Lux	
Mounting structure	Pendant / Wall 90 °	Pendant / Wall 90 °	Pendant / Wall 90 °	Pendant / Wall 90 °	
Protection rating	IP66	IP66	IP66	IP66	
Certificates	KCs	KCs	KCs	KCs	
Customization	Ex nR II T6	Ex nR II T6	Ex nR II T6	Ex nR II T6	
Page	P48-49	P50-51	P50-51	P50-51	

Industrial LED Lights Specification List

High Bay LED Lights



Model number	SL65N4	SL75N4	SL80N4	SL120N4
Voltage	AC220V	AC220V	AC220V	AC220V
Power consumption	65W	75W	86W	120W
Dimension (mm)	Length	Φ264	Φ264	Φ288
	Width	163	163	174
	Height	-	-	-
Material	Housing: Al, Lens : Tempered glass	Housing: Al, Lens : Tempered glass	Housing: Al, Lens : Tempered glass	Housing: Al, Lens : Tempered glass
Lens color	Transparent	Transparent	Transparent	Transparent
Light color	Cooldaylight	Cooldaylight	Cooldaylight	Cooldaylight
Efficacy (lm/W)	3,400Lux	3,400Lux	4,000Lux	5,800Lux
Mounting structure	Ceiling/ Wall mount/ Pendant	Ceiling/ Wall mount/ Pendant	Ceiling/ Wall mount/ Pendant	Ceiling/ Wall mount/ Pendant
Protection rating	Non waterproof	Non waterproof	Non waterproof	Non waterproof
Certificates	KC, High efficiency materials	KC, High efficiency materials	KC, High efficiency materials	KC, High efficiency materials
Page	P44-45	P44-45	P44-45	P46-47

QML/QMHL

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



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



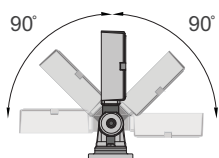
Common Specifications(QML/ QMHL)

- 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 environments(IP69K)
- Tempered glass prevents damage from machine tool chips
- Foreign substances do not accumulate on the shielding glass surface of the working light due to its flush structure to the housing structure of the product
- Can select between QML model (Anti-glare type) and QMHL model (High luminance type) depending on your work conditions
- An external power supply is not needed for the AC type product; AC voltage can be applied directly to the product
- 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
- Standard entry cable included. Can customize the product with the M12 connector if requested
- Customized oil resistant cable attached type available
- Certificates : CE, UL Compliant

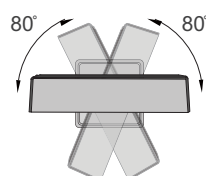


Tilt/ Pan Type MF Bracket, Water and Oil Resistant

SIDE VIEW



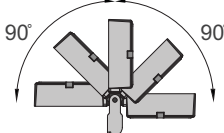
TOP VIEW



- 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°

Tilt Type K Bracket

SIDE VIEW



Has tilt adjustment with wide angle of 180°

M12 Connector Attached Type



Customized cable entry M12 connector attached type available, an additional connector cable will be also provided with this model.

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
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

QML/QMHL

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



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

Optics Specifications

Model	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	5,500-6,000K			
Luminous flux	875lm	2,014lm	884lm	1,892lm
Efficacy (lm/W)	620Lux	890Lux	1,000Lux	1,900Lux

Specifications

Model	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 AC110V / 220V	DC24V AC110V / 220V	DC24V AC110V / 220V	DC24V AC110V / 220V
Range for operation voltage	DC21.5V-26.5V / AC98V-121V / AC198V-245V			
Current	0.530A 0.110A / 0.054A	1.180A 0.215A / 0.104A	0.510A 0.105A / 0.051A	1.020A 0.208A / 0.102A
Power consumption	13W 12W / 11W	29W 24W / 23W	12W 11.5W / 11W	25W 23W / 23W
Insulation resistance	Min. 100MΩ(500V DC mega ohm meter)			
Withstanding voltage	DC : 500V AC, 60Hz, 1 minute / AC : 1,500V AC, 60Hz, 1 minute			
Operating temperature	-30°C to +60°C			
Protection rating	IP67/ IP69K			
Materials	Housing : Al, Lens : Tempered glass, Cover : Al, Bracket : K type-ST5430/MF type-AI			
Certification	CE DC only			
Weight(Approx.)	QML-150-D : 0.75kg QML-150-K : 0.93kg QML-150-MF : 0.98kg	QML-250-D : 1.30kg QML-250-K : 1.46kg QML-250-MF : 1.52kg	QMHL-150-D : 0.95kg QMHL-150-K : 1.05kg QMHL-150-MF : 1.45kg	QMHL-250-D : 1.20kg QMHL-250-K : 1.30kg QMHL-250-MF : 1.70kg

QML/QMHL

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

Light Distribution and Illuminance

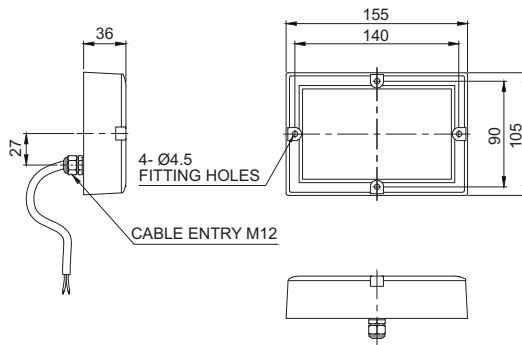
Model	QML-150-D QML-150-K QML-150-MF	QML-250-D QML-250-K QML-250-MF	QMHL-150-D QMHL-150-K QMHL-150-MF	QMHL-250-D QMHL-250-K QMHL-250-MF
Light Distribution Curve				
Illumination Feature				



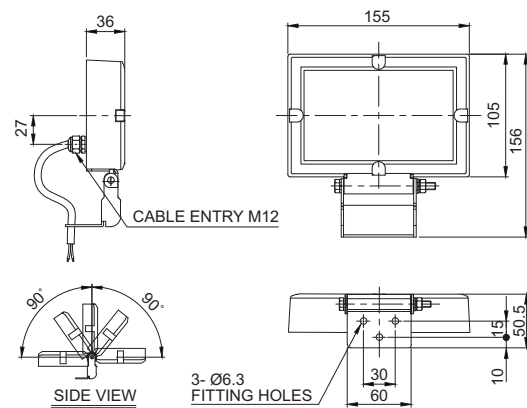
Technical Diagram

(Units : mm)

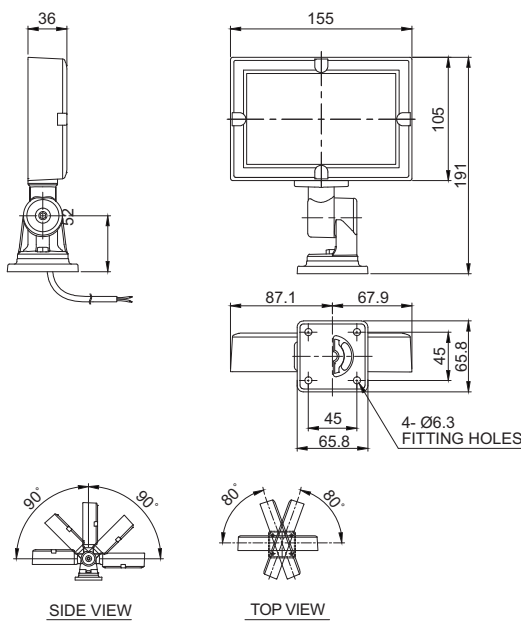
QML/ QMHL-150-D



QML/ QMHL-150-K



QML/ QMHL-150-MF



※ Power line standard : Dura & Flex-F VU (0.5sq) x 2C 550mm

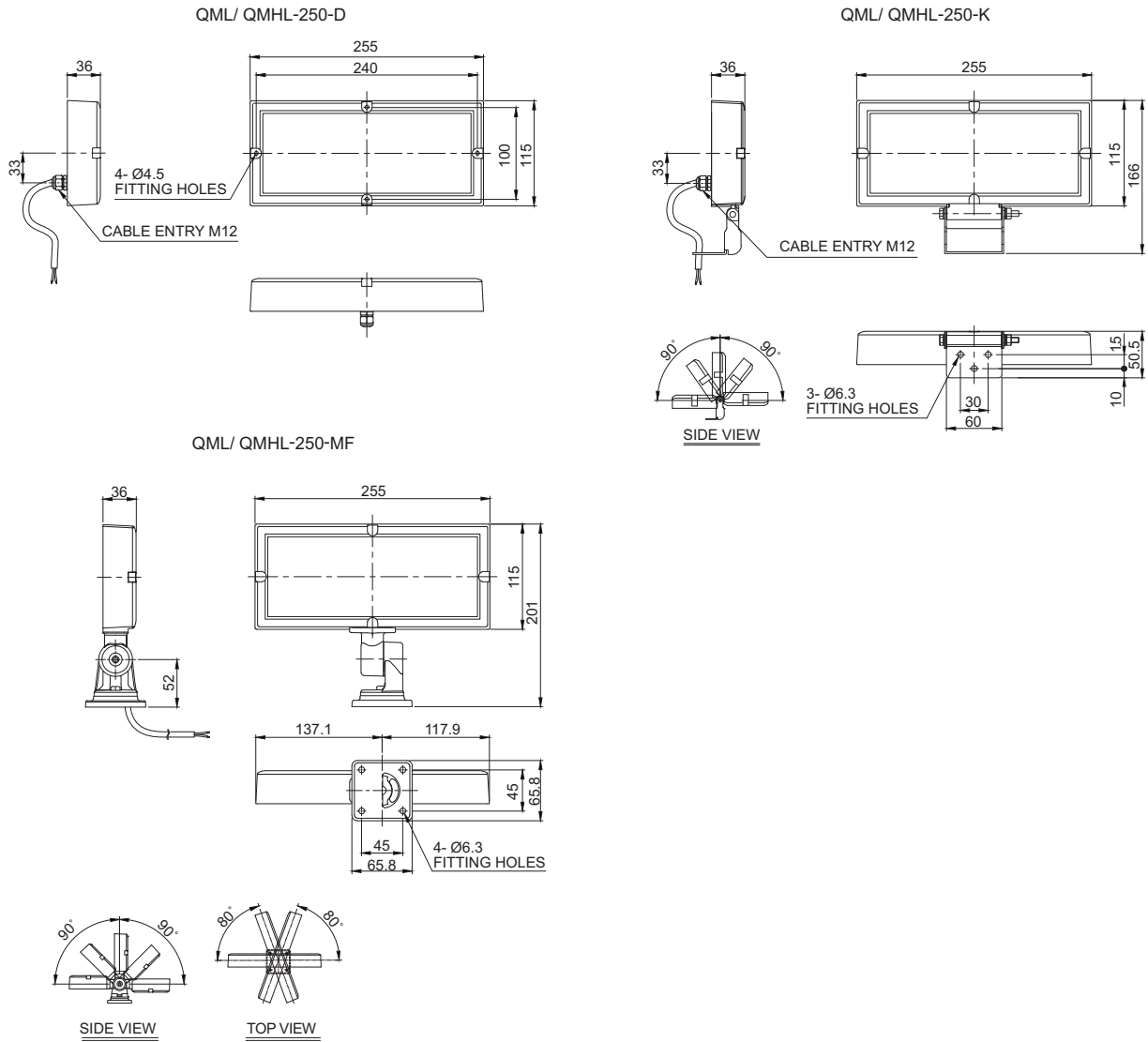
QML/QMHL

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



Technical Diagram

(Units : mm)



※ Power line standard : Dura & Flex-F VU (0.5sq) x 2C 550mm



Ordering Specification

QML	-	150	-	D	-	24
[Model number]		[Product length]		[Mount bracket]		[Voltage]
<ul style="list-style-type: none"> • QML : Anti-Glare • QMHL : High illumination 		<ul style="list-style-type: none"> • 150 : 155mm • 250 : 255mm 		<ul style="list-style-type: none"> • D : Self stand • K : Vertical angle adjustment • MF : Vertical, horizontality angle adjustment 		<ul style="list-style-type: none"> • 24-DC24V • 110-AC110V • 220-AC220V

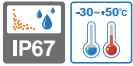


Please check the safety manual before use, accidents such as fire or electric shock can occur if the safety manual is not followed.

This product can be changed without any notification. Latest information is on the website.

QFL/QFLC

Water and Vibration Resistant LED Light Bars with IP67 Protection



Common Specifications(QFL/ QFLC)

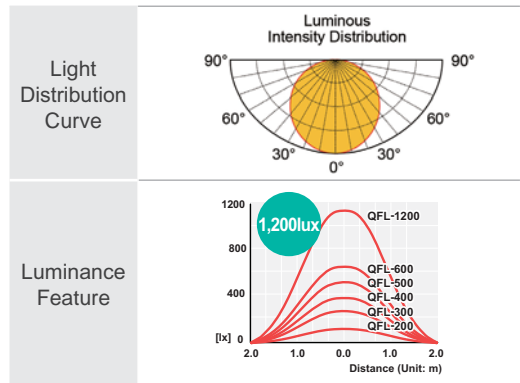
- Excellent front and side light distribution with the use of a special light distributing structure on the surface of the oval lens
- An external power supply is not needed for the AC type product; AC voltage can be applied directly to the product
- Excellent heat dissipation by using a heat dissipative 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
- Standard entry cable included. Can customize the product with the M12 connector if requested
- Certificates: CE Compliant



QFL Translucent Lens Type



Light Distribution and Illuminance



Specifications on Luminance

Model	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	395lm	828lm	1,087lm	1,474lm	1,815lm	3,338lm
	AC	481lm	940lm	1,172lm	1,602lm	1,862lm	3,545lm
Efficacy (lm/W)	DC	120lux	250lux	375lux	500lux	625lux	1,150lux
	AC	150lux	280lux	400lux	545lux	640lux	1,200lux

General Specifications

Model	QFL-200	QFL-300	QFL-400	QFL-500	QFL-600	QFL-1200
Voltage	DC24V	DC24V	DC24V	DC24V	DC24V	DC24V
	AC110V / 220V	AC110V / 220V	AC110V / 220V	AC110V / 220V	AC110V / 220V	AC110V / 220V
Range for operation voltage	DC21.5V-26.5V / AC98V-121V / AC198V-245V					
Current	0.180A	0.380A	0.520A	0.690A	0.820A	1.650A
	0.097A / 0.047A	0.220A / 0.107A	0.330A / 0.160A	0.410A / 0.200A	0.450A / 0.220A	0.910A / 0.450A
Power consumption	4.5W	9.5W	12.5W	17W	20W	40W
	5.5W / 5.5W	13W / 13W	20W / 19W	24W / 24W	27W / 26W	53W / 53W
Insulation resistance	Min. 100MΩ(500V DC mega ohm meter)					
Withstanding voltage	DC : 500V AC, 60Hz, 1 minute / AC : 1,500V AC, 60Hz, 1 minute					
Operating temperature	-30°C to +50°C					
Protection rating	IP67					
Materials	Lens : PC, Cover : AI, Heat sink : AI					
Certifications	CE DC24V Only					
Weight(Approx.)	0.40kg	0.49kg	0.58kg	0.73kg	0.82kg	1.28kg
	0.43kg	0.52kg	0.61kg	0.76kg	0.85kg	1.31kg

QFL/QFLC

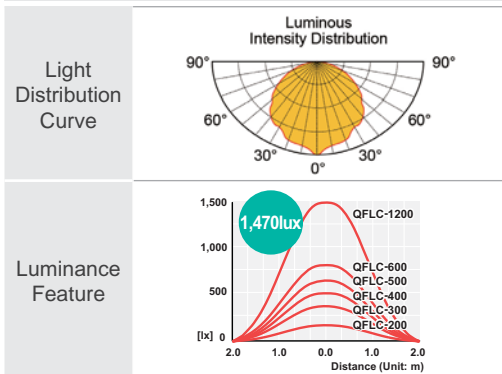
Water and Vibration Resistant LED Light Bars with IP67 Protection



QFLC Transparent Lens



Light Distribution and Illuminance



Specifications on Luminescence

Model	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	462lm	975lm	1,282lm	1,739lm	3,970lm
	AC	565lm	1,109lm	1,384lm	1,893lm	4,221lm
Efficacy (lm/W)	DC	150Lux	310Lux	460Lux	620Lux	1,470Lux
	AC	190Lux	350Lux	500Lux	670Lux	1,500Lux

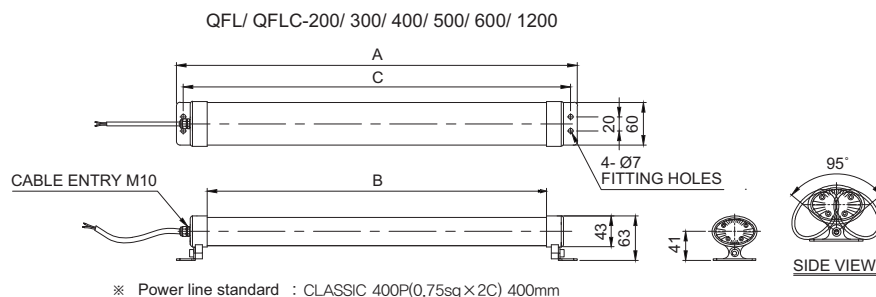
General Specifications

Model	QFLC-200	QFLC-300	QFLC-400	QFLC-500	QFLC-600	QFLC-1200
Voltage	DC24V	DC24V	DC24V	DC24V	DC24V	DC24V
	AC110V / 220V	AC110V / 220V	AC110V / 220V	AC110V / 220V	AC110V / 220V	AC110V / 220V
Range for operation voltage	DC21.5V-26.5V / AC98V-121V / AC198V-245V					
Current	0.180A	0.380A	0.520A	0.690A	0.820A	1.650A
	0.097A / 0.047A	0.220A / 0.107A	0.330A / 0.160A	0.410A / 0.200A	0.450A / 0.220A	0.910A / 0.450A
Power consumption	4.5W	9.5W	12.5W	17W	20W	40W
	5.5W / 5.5W	13W / 13W	20W / 19W	24W / 24W	27W / 26W	53W / 53W
Insulation resistance	Min. 100MΩ(500V DC mega ohm meter)					
Withstanding voltage	DC : 500V AC, 60Hz, 1 minute / AC : 1,500V AC, 60Hz, 1 minute					
Operating temperature	-30°C to +50°C					
Protection rating	IP67					
Materials	Lens : PC, Side cover : Al, Heat sink : Al					
Certifications	CE DC24V Only					
Weight(Approx.)	0.47kg	0.57kg	0.67kg	0.77kg	0.86kg	1.32kg
	0.50kg	0.61kg	0.71kg	0.81kg	0.90kg	1.40kg



Technical Diagram

(Units : mm)



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



Ordering Specification

QFL	600	110
[Model number]	[Product length]	[Voltage]
<ul style="list-style-type: none"> QFL : Translucent lens QFLC : Transparent lens 	<ul style="list-style-type: none"> 200 : 240mm 300 : 340mm 400 : 440mm 500 : 540mm 600 : 640mm 1200 : 1,190mm 	<ul style="list-style-type: none"> 24-DC24V 110-AC110V 220-AC220V

QMFLN

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



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

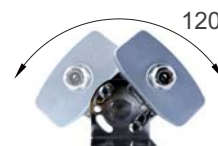


Common Specifications

- 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 illumination type (QMFHLN) is available as customization



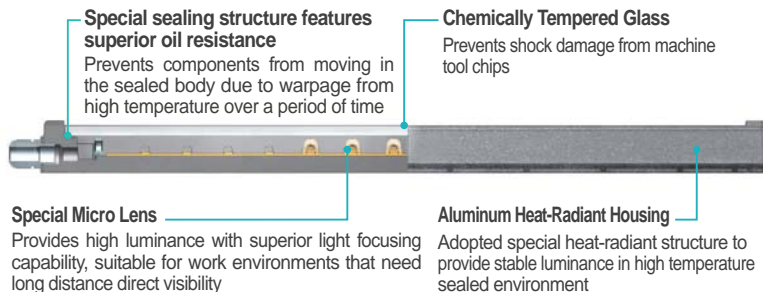
Tilt Type K Bracket



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



Structural Features



M12 Connector Attached Type



Customized cable entry M12 connector attached type available, an additional connector cable will be also provided with this model.

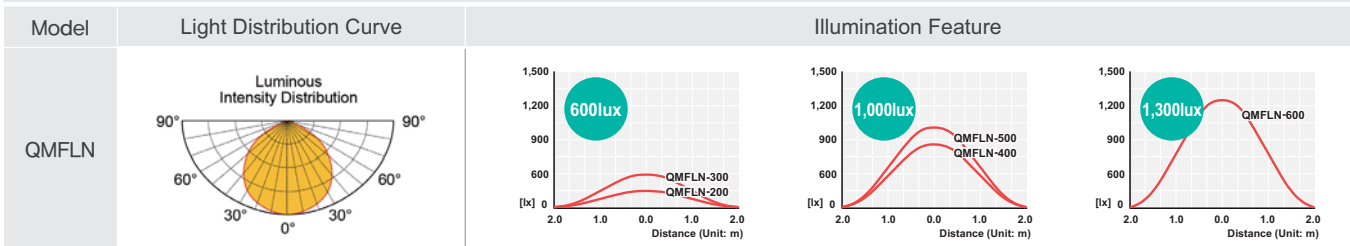
Test Conditions/ Regulations

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

QMFLN

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

Light Distribution and Illuminance



Optics Specifications

Model	QMFLN-200	QMFLN-300	QMFLN-400	QMFLN-500	QMFLN-600
Lens color	Translucent	Translucent	Translucent	Translucent	Translucent
Light color	Cooldaylight				
Color temperature	6,000-7,000K				
Luminous flux	DC 732lm	1,626lm	2,411lm	2,710lm	3,523lm
Efficacy (lm/W)	DC 270Lux	600Lux	890Lux	1,000Lux	1,300Lux

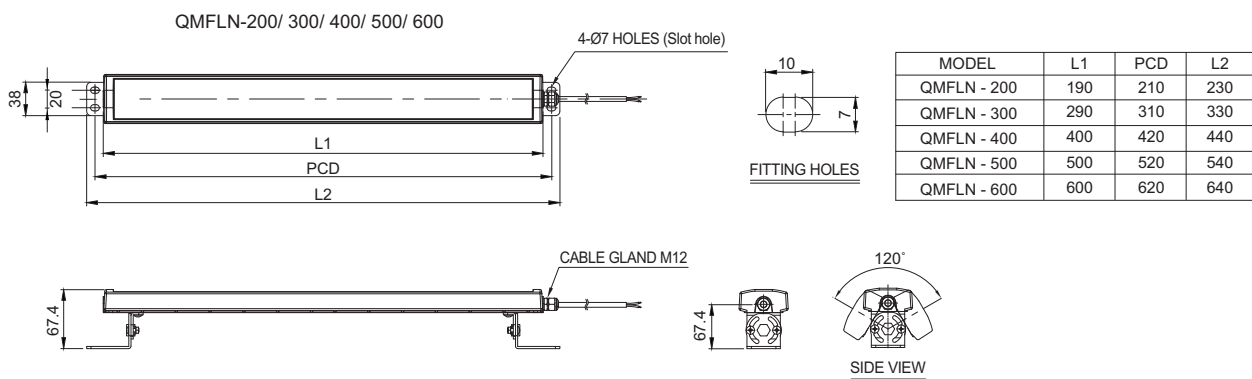
Specifications

Model	QMFLN-200	QMFLN-300	QMFLN-400	QMFLN-500	QMFLN-600
Voltage	DC24V				
Range for operation voltage	DC22V-30V				
Current	0.235A	0.520A	0.816A	0.816A	1.050A
Power consumption	5.6W	12.5W	20W	20W	25W
Power consumption	Min. 100MΩ(500V DC mega ohm meter)				
Withstanding voltage	500V AC, 60Hz, 1 minute				
Operation temperature	-30°C to +60°C				
Protection rating	IP67/ IP69K				
Materials	Housing: Al, Lens : Tempered glass, Bracket : Spc-1				
Certificates	-				
Weight (Approx.)	0.57kg	0.80kg	1.03kg	1.26kg	1.49kg



Technical Diagram

(Units : mm)



Ordering Specification

QMFLN	-	600	-	24
[Model number]		[Product length]		[Voltage]
• QMFLN		• 200 : 190mm • 300 : 290mm • 400 : 400mm • 500 : 500mm • 600 : 600mm		• 24-DC24V

QPL/QPLC/QPHL/QPHLC

Basic Waterproof LED Light Bars



Waterproof LED light bars, suitable for dusty and moisture environments



Common Specifications(QPL/QPLC/QPHL/QPHLC)

- 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
- Certificates : CE, UL Compliant

QPL Translucent Lens



QPLC Transparent Lens



Optics Specifications

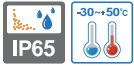
Model	QPL200	QPLC200	QPL300	QPLC300	QPL400	QPLC400	QPL500	QPLC500	
Lens color	Translucent	Transparent	Translucent	Transparent	Translucent	Transparent	Translucent	Transparent	
Light color	Cooldaylight								
Color temperature	6,000-7,000K								
Luminous flux	DC	168lm	187lm	248lm	309lm	387lm	436lm	515lm	587lm
	AC	-	-	381lm	433lm	527lm	600lm	696lm	792lm
Efficacy (lm/W)	DC	50Lux	65Lux	80Lux	100Lux	120Lux	145Lux	160Lux	195Lux
	AC	-	-	120Lux	135Lux	160Lux	200Lux	215Lux	265Lux

Specifications

Model	QPL200/ QPLC200	QPL300/ QPLC300	QPL400/ QPLC400	QPL500/ QPLC500
Voltage	DC24V	DC24V	DC24V	DC24V
		AC110V / 220V	AC110V / 220V	AC110V / 220V
Range for operation voltage	DC21.5V-26.5V	DC21.5V-26.5V / AC98V-121V / AC198V-245V		
Current	0.155A	0.155A	0.230A	0.308A
		0.052A / 0.025A	0.070A / 0.034A	0.093A / 0.045A
Power consumption	4W	4W	5.5W	7.5W
		6W / 5.5W	8W / 7.5W	11W / 10W
Insulation resistance	Min. 100MΩ(500V DC mega ohm meter)			
Withstanding voltage	DC : 500V AC, 60Hz, 1 minute / AC : 1,500V AC, 60Hz, 1 minute			
Operating temperature	-30°C to +50°C			
Protection rating	IP65			
Materials	Lens : PC, Side cover : ABS, Heat sink : Al			
Certificates	DC only			
Weight(Approx.)	0.13kg	0.15kg	0.21kg	0.24kg
		0.15kg	0.21kg	0.24kg

QPL/QPLC/QPHL/QPHLC

Basic Waterproof LED Light Bars



QPHL Translucent Lens



QPHLC Transparent Lens



Optics Specifications

Model	QPHL200	QPHLC200	QPHL300	QPHLC300	QPHL400	QPHLC400	QPHL500	QPHLC500	
Lens color	Translucent	Transparent	Translucent	Transparent	Translucent	Transparent	Translucent	Transparent	
Light color	Cooldaylight								
Color temperature	6,000-7,000K								
Luminous flux	DC	289lm	344lm	460lm	529lm	668lm	768lm	803lm	907lm
	AC	-	-	505lm	582lm	714lm	814lm	927lm	1,094lm
Efficacy (lm/W)	DC	80Lux	100Lux	120Lux	150Lux	190Lux	230Lux	250Lux	310Lux
	AC	-	-	135Lux	170Lux	200Lux	250Lux	290Lux	375Lux

Specifications

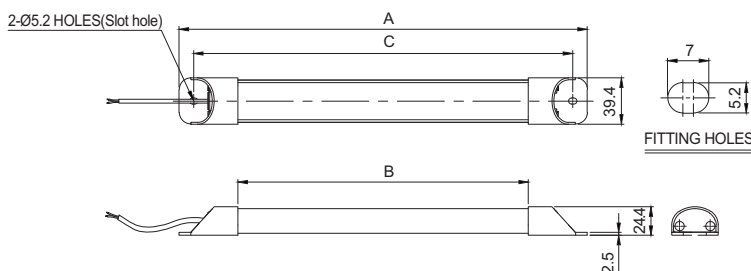
Model	QPHL200/ QPHLC200	QPHL300/ QPHLC300	QPHL400/ QPHLC400	QPHL500/ QPHLC500
Voltage	DC24V	DC24V AC110V / 220V	DC24V AC110V / 220V	DC24V AC110V / 220V
Range for operation voltage	DC21.5V-26.5V	DC21.5V-26.5V / AC98V-121V / AC198V-245V		
Current	0.200A	0.210A 0.062A / 0.030A	0.310A 0.076A / 0.037A	0.400A 0.095A / 0.046A
Power consumption	4.8W	5W 7W / 6.5W	7.5W 8.5W / 8W	9.5W 11W / 10W
Insulation resistance	Min. 100MΩ(500V DC mega ohm meter)			
Withstanding voltage	DC : 500V AC, 60Hz, 1 minute / AC : 1,500V AC, 60Hz, 1 minute			
Operating temperature	-30°C to +50°C			
Protection rating	IP65			
Materials	Lens : PC, Side cover : ABS, Heat sink : Al			
Certificates	CE DC only			
Weight(Approx.)	0.13kg	0.22kg 0.23kg	0.31kg 0.32kg	0.41kg 0.42kg



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

※ Power line standard : DC TYPE - UL2464 AWG22(0.3sq×2C) 400mm
AC TYPE - VCTFK(0.75sq×2C) 400mm

QPL/QPLC/QPHL/QPHLC

Basic Waterproof LED Light Bars

Light Distribution and Illuminance

Model	Light Distribution Curve	Illumination Feature			
QPL					
QPLC					
QPHL					
QPHLC					



Ordering Specification

QPHL

[Model number]

- QPL : Translucent lens
- QPLC : Transparent lens
- QPHL : High illumination translucent lens
- QPHLC : High illumination transparent lens

500

[Product length]

- 200 : 200mm
- 300 : 300mm
- 400 : 400mm
- 500 : 500mm

24

[Voltage]

- 24-DC24V
- 110-AC110V
- 220-AC220V

QCML/ QCMLC

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



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

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



Common Specifications(QCML/ QCMLC)

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



QCML Series Specifications

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

QCML/QCMLC

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



QCML Translucent Lens Type



QCMLC Transparent Lens Type

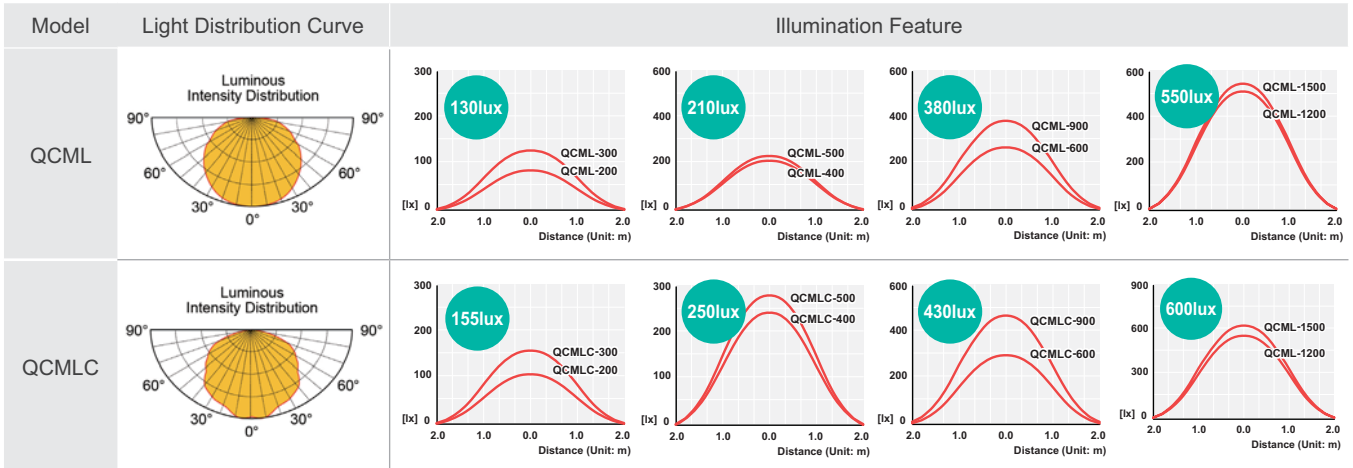


Optics Specifications								
Model	QCML-200/ QCMLC-200	QCML-300/ QCMLC-300	QCML-400/ QCMLC-400	QCML-500/ QCMLC-500	QCML-600/ QCMLC-600	QCML-900/ QCMLC-900	QCML-1200/ QCMLC-1200	QCML-1500/ QCMLC-1500
Lens color	Translucent/ Transparent	Translucent/ Transparent	Translucent/ Transparent	Translucent/ Transparent	Translucent/ Transparent	Translucent/ Transparent	Translucent/ Transparent	Translucent/ Transparent
Light color/ Color temperature	Cooldaylight	6,000-7,000K						
	Incandescent	2,500-3,500K						
	Red	618-632nm						
	Amber	585-632nm						
Luminous flux/ (Cooldaylight)	276lm/ 322lm	381lm/ 436lm	729lm/ 833lm	742lm/ 849lm	754lm/ 863lm	1,126lm/ 1,291lm	1,492lm/ 1,691lm	1,855lm/ 2,105lm
Efficacy (lm/W)/ (Cooldaylight)	85Lux/ 100Lux	130Lux/ 155Lux	200Lux/ 245Lux	210Lux/ 250Lux	250Lux/ 295Lux	380Lux/ 430Lux	500Lux/ 560Lux	550Lux/ 600Lux
Specifications								
Model	QCML-200/ QCMLC-200	QCML-300/ QCMLC-300	QCML-400/ QCMLC-400	QCML-500/ QCMLC-500	QCML-600/ QCMLC-600	QCML-900/ QCMLC-900	QCML-1200/ QCMLC-1200	QCML-1500/ QCMLC-1500
Voltage	DC24V							
Range for operation voltage	DC21.5V-26.5V							
Current	0.230A	0.235A	0.460A	0.465A	0.465A	0.700A	0.925A	1.160A
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 : 500V AC, 60Hz, 1 minute							
Operating temperature	-30°C to +50°C							
Protection rating	IP67/ IP69K							
Materials	Lens : PC, Side cover : PC, Heat sink : Al, Bracket : PC							
Certificate	CE DC24V only							
Weight(Approx.)	0.16kg	0.20kg	0.26kg	0.33kg	0.40kg	0.56kg	0.76kg	0.94kg

QCML/QCMLC

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

Light Distribution and Illuminance



Mounting Structure

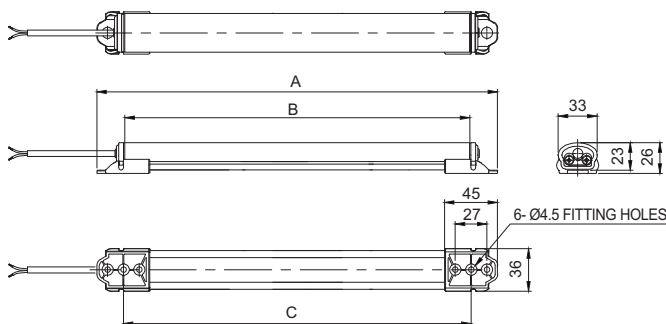


- ※ Adopts removable mounting bracket and sliding structure, adjustable mounting distance.(patent)
- ※ mounting bracket is arranged on edge or middle of body, in case of edge of body, mounting bracket space is kept.

Technical Diagram

(Units : mm)

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



MODEL	A	B	C	D
QCML/ QCMLC-200	257	226	45~212	2
QCML/ QCMLC-300	357	326	45~312	2
QCML/ QCMLC-400	457	426	45~412	2
QCML/ QCMLC-500	557	526	45~512	2
QCML/ QCMLC-600	657	626	45~612	2
QCML/ QCMLC-900	957	926	45~912	3
QCML/ QCMLC-1200	1257	1226	45~1212	4
QCML/ QCMLC-1500	1557	1526	45~1512	4

※ D : Recommended quantity of mounting brackets

※ Power line standard : UL2464-AWG22(0,3sq×2C) 400mm

Ordering Specification

QCML	-	300	-	PY	-	24
[Model number]		[Product length]		[Light color]		[Voltage]
<ul style="list-style-type: none"> QCML : Translucent lens QCMLC : Transparent lens 		<ul style="list-style-type: none"> 200 : 257mm 300 : 357mm 400 : 457mm 500 : 557mm 600 : 657mm 900 : 957mm 1200 : 1,257mm 1500 : 1,557mm 		<ul style="list-style-type: none"> W-Cooldaylight PY-Incandilight R-Red A-Amber 		<ul style="list-style-type: none"> 24-DC24V

QGL/QGLC

LED Light Bars for Indoor



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



Common Specifications(QGL/ QGLC)

- 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
- Certificates : CE Compliant

QGL Translucent Lens



QGLC Transparent Lens



Optics Specifications

Model	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	265lm	332lm	397lm	498lm	595lm	748lm	872lm	997lm
	AC	316lm	358lm	530lm	602lm	720lm	818lm	952lm	1,080lm
Efficacy (lm/W)	DC	70Lux	85Lux	140Lux	170Lux	210Lux	255Lux	280Lux	340Lux
	AC	85Lux	90Lux	185Lux	205Lux	255Lux	280Lux	310Lux	370Lux

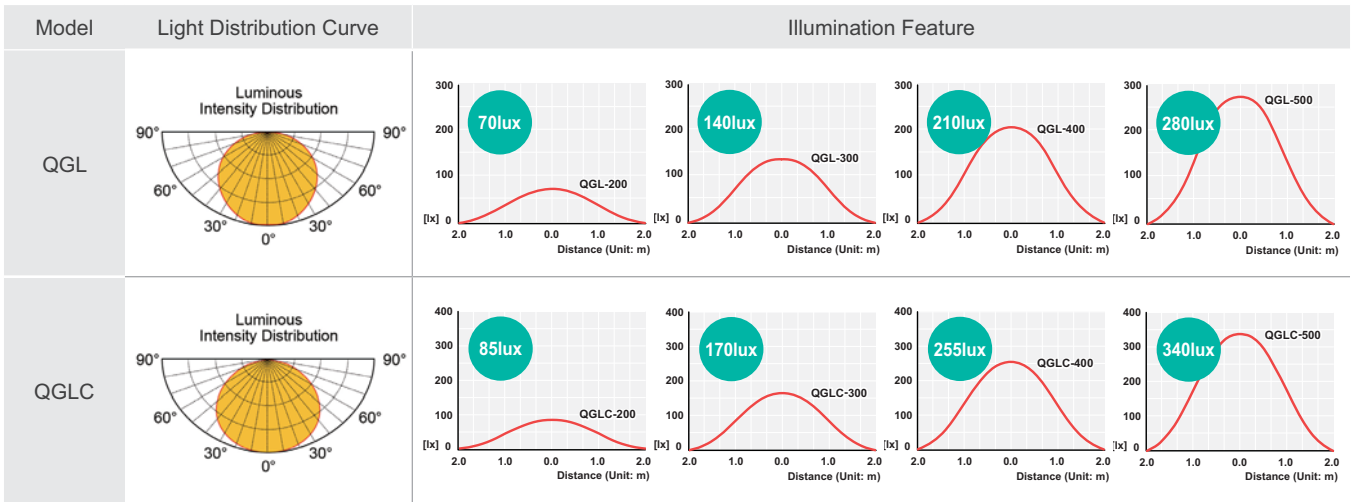
Specifications

Model	QGL-200/QGLC-200		QGL-300/QGLC-300		QGL-400/QGLC-400		QGL-500/QGLC-500	
Voltage	DC24V		DC24V		DC24V		DC24V	
	AC110V / AC220V		AC110V / AC220V		AC110V / AC220V		AC110V / AC220V	
Range for operation voltage	DC21.5V-26.5V / AC98V-121V / AC198V-245V							
Current	0.125A		0.210A		0.310A		0.430A	
	0.035A / 0.016A		0.062A / 0.030A		0.083A / 0.040A		0.110A / 0.053A	
Power consumption	3W		5W		7.5W		10.5W	
	4W / 3.5W		7W / 6.5W		9W / 9W		12W / 11.5W	
Insulation resistance	Min. 100MΩ(500V DC mega ohm meter)							
Withstanding voltage	DC : 500V AC, 60Hz, 1 minute / AC : 1,500V AC, 60Hz, 1 minute							
Operating temperature	-30°C to +50°C							
Protection rating	Non waterproof							
Materials	Lens : PC, Side cover : ABS, Heat sink : Al, Bracket : STS201							
Certificate	CE							
Weight(Approx.)	0.12kg		0.17kg		0.23kg		0.28kg	
	0.12kg		0.17kg		0.23kg		0.28kg	

QGL/QGLC

LED Light Bars for Indoor

Light Distribution and Illuminance



Mounting Structure



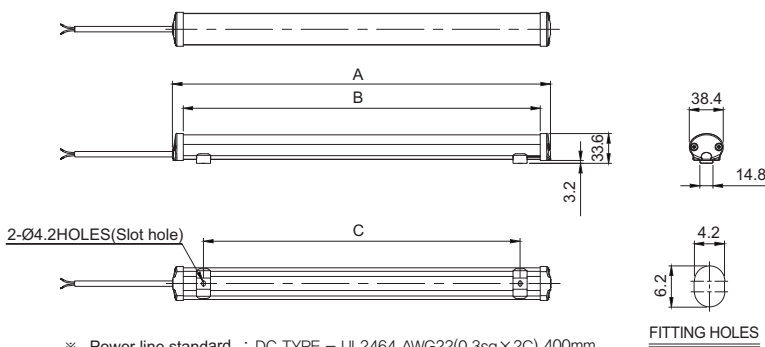
※ Adopts removable mounting bracket and sliding structure, adjustable mounting distance.

※ Standard bracket : STS201(2pcs included)

Technical Diagram

(Units : mm)

QGL/ QGLC-200/ 300/ 400/ 500



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

※ Power line standard : DC TYPE – UL2464 AWG22(0.3sq×2C) 400mm
AC TYPE – VCTFK(0.75sq×2C) 400mm

Ordering Specification

QGL	300	220
[Model number]	[Product length]	[Voltage]
<ul style="list-style-type: none"> • QGL : Translucent lens • QGLC : Transparent lens 	<ul style="list-style-type: none"> • 200 : 200mm • 300 : 300mm • 400 : 400mm • 500 : 500mm 	<ul style="list-style-type: none"> • 24-DC24V • 110-AC110V • 220-AC220V

QEL/QELT/QELS/QELTS

LED Light Bars for Distribution Panel



Common Specifications(QEL/ QELT/ QELS/ QELTS)

- 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
- Certificates : CE, KC Compliant



QEL External Power Line



QELT Terminal Box Equipped



QELS External Power Line, Switch Equipped



QELTS Terminal Box Equipped, Switch Equipped



Optics Specifications

Model	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			
Light color	Cooldaylight			
Color temperature	6,000-7,000K			
Luminous flux	DC	254lm	383lm	509lm
	AC	268lm	384lm	479lm
Efficacy (lm/W)	DC	80Lux	120Lux	160Lux
	AC	85Lux	120Lux	150Lux

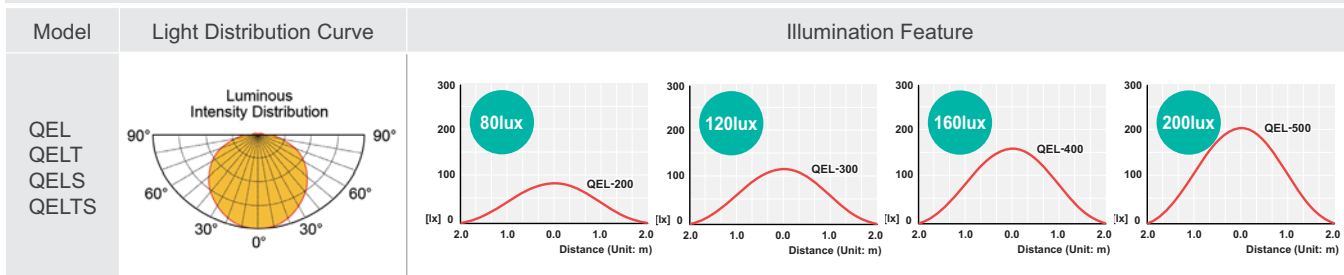
Specifications

Model	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	DC24V	DC24V	DC24V
	AC110V/AC220V	AC110V/AC220V	AC110V/AC220V	AC110V/AC220V
Range for operation voltage	DC21.5V-26.5V / AC98V-121V / AC198V-245V			
Current	0.145A	0.215A	0.285A	0.358A
	0.196A / 0.095A	0.202A / 0.098A	0.206A / 0.100A	0.216A / 0.105A
Power consumption	3.5W	5W	7W	8.5W
	4W / 3.5W	5.5W / 5.5W	7W / 7W	8.5W / 8W
Insulation resistance	Min. 100MΩ(500V DC mega ohm meter)			
Withstanding voltage	DC : 500V AC, 60Hz, 1 minute / AC : 1,500V AC, 60Hz, 1 minute			
Operating temperature	-30°C to +50°C			
Protection rating	Non waterproof			
Materials	Lens : PC, Side cover : ABS, Bracket : STS201			
Certificate				
Weight(Approx.)	0.08kg	0.10kg	0.13kg	0.15kg
	0.10kg	0.12kg	0.15kg	0.17kg

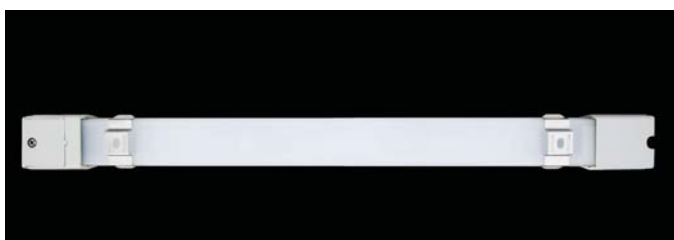
QEL/QELT/QELS/QELTS

LED Light Bars for Distribution Panel

Light Distribution and Illuminance



Mounting Structure



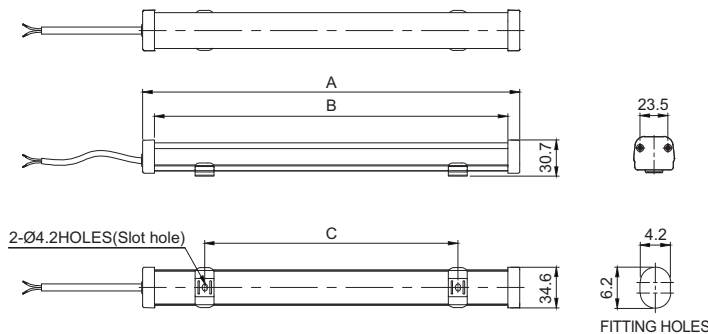
※ Adopts removable mounting bracket and sliding structure, adjustable mounting distance.

※ Standard bracket : STS201(2pcs included)

Technical Diagram

(Units : mm)

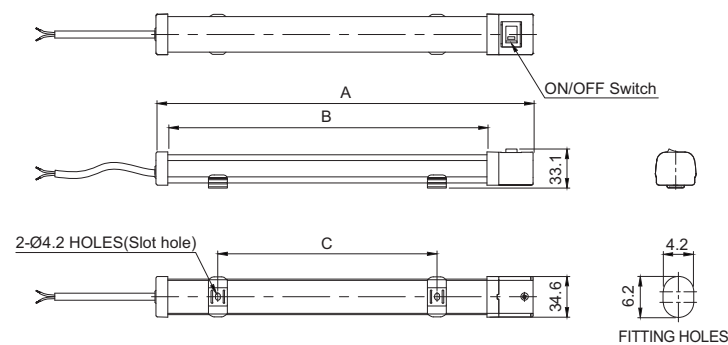
QEL(Standard type)



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

※ Power line standard : DC TYPE – UL2464 AWG22(0.3sq×2C) 400mm
AC TYPE – VCTFK(0.75sq×2C) 400mm

QELS(Built-in on/off switch 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

※ Power line standard : DC TYPE – UL2464 AWG22(0.3sq×2C) 400mm
AC TYPE – VCTFK(0.75sq×2C) 400mm

QEL/QELT/QELS/QELTS

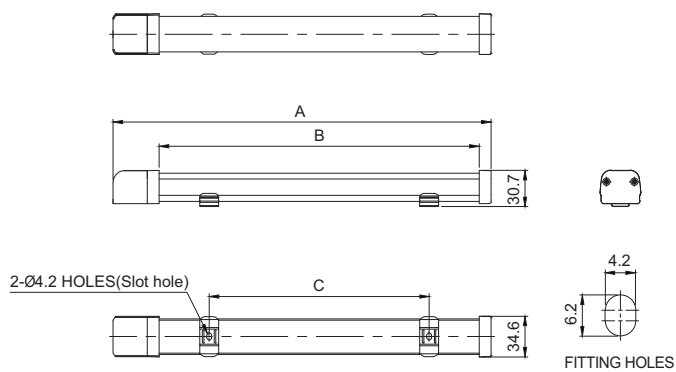
LED Light Bars for Distribution Panel



Technical Diagram

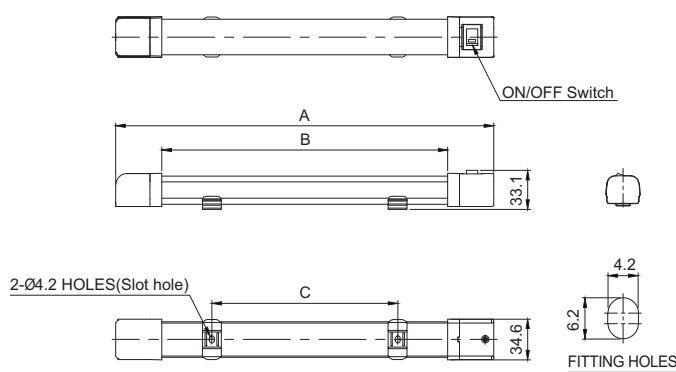
(Units : mm)

QELT(Built-in terminal type)



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



Ordering Specification

QEL

[Model number]

- QEL : External power line
- QELT : Terminal box equipped
- QELS : External power line, Switch equipped
- QELTS : Terminal box, Switch equipped

300

[Product length]

- 200 : 200mm
- 300 : 300mm
- 400 : 400mm
- 500 : 500mm

220

[Voltage]

- 24-DC24V
- 110-AC110V
- 220-AC220V

QMFL-300-Ex-24

Non Sparking LED work light



QMFL-300-Ex-24 Non Sparking LED work light

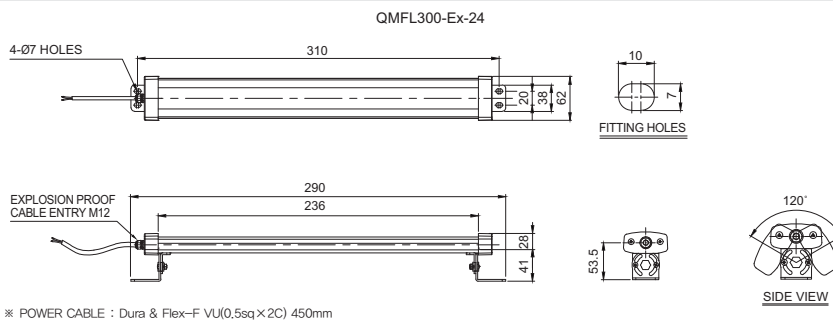
- Water, vibration and oil resistant LED work lights with non sparking ex-proof feature
- Special epoxy sealed structure provides excellent oil resistance
- Aluminum housing and tempered glass improves durability and stability in hazardous areas(Explosive zone)
- Can be used for Zone 2 application with explosion proof rating of nR
- Materials : Housing - Al, Side cover- Al,
Lens - Tempered glass, Bracket - SPC1
- Certificates : KC(KGS)
- Protection rating: Ex nR IIT6, IP67/ IP69K
- Ambient operating temperature : $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$

Specifications

Optics Specifications	
Model	QMFL-300-Ex-24
Lens color	Translucent
Light color	Cool daylight
Color temperature	6,000-7,000K
Luminous flux	DC 510lm
Illumination (at 1m)	DC 260Lux
Specifications	
Voltage	DC24V
Range of operation voltage	DC21.5V-26.5V
Current	0.410A
Power consumption	10W
Insulation resistance	Min. 100MΩ(500V DC mega ohm meter)
Withstanding voltage	DC : 500V AC, 60Hz, 1 minute
Operating temperature	$-40^{\circ}\text{C} - +60^{\circ}\text{C}$
Protection rating	IP67/ IP69K
Materials	Housing : Al, Side cover : Al, Lens : Tempered glass, Bracket : SPC-1
Certificates	
Weight(Approx.)	0.79kg

Technical Diagram

(Units : mm)



Ordering Specification

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



Cautions in use of explosion proof LED work lights

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

ULEF/ ULSF

Fluorescent LED Lights for General Purpose



Common Specifications(ULEF/ ULSF)

- Alternative solution for existing fluorescent lighting in commercial/ residential applications
- Saving energy up to 55% compared to existing fluorescent lightings
- Aesthetically pleasing with slim and versatile design
- Easy installation with no need of making mounting holes (ULEF type)
- Protection rating : Non waterproof
- Certificates : KS, High efficiency materials



ULEF/ ULSF

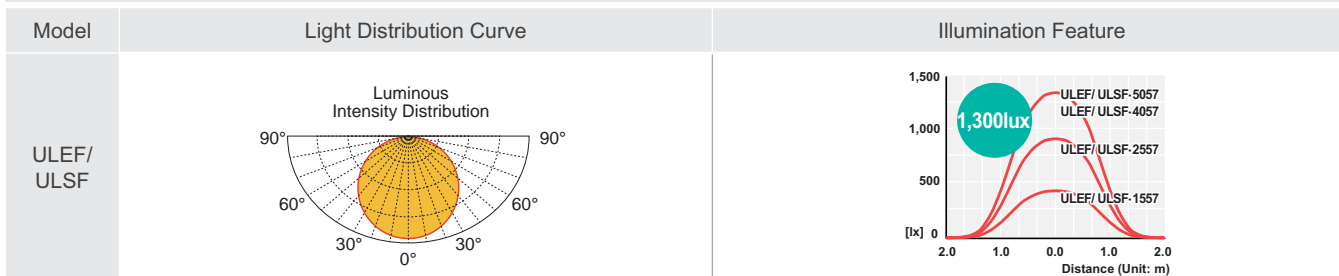


Optics Specifications				
Model	ULEF-1557/ ULSF-1557	ULEF-2557/ ULSF-2557	ULSF-4057/ ULSF-4057	ULEF-5057/ ULSF-5057
Lens color	Translucent			
Light color	Cooldaylight			
Color temperature	5,700K			
Luminous flux	1,500lm	2,500lm	4,000lm	5,000lm
Efficacy (lm/W)	450Lux	800Lux	1,300Lux	1,300Lux
General Specifications				
Model	ULEF-1557/ ULSF-1557	ULEF-2557/ ULSF-2557	ULSF-4057/ ULSF-4057	ULEF-5057/ ULSF-5057
Voltage	AC220V			
Range for operation voltage	AC220V-240V			
Current	0.065A	0.108A	0.19A	0.266A
Power consumption	15W	25W	40W	50W
Insulation resistance	Min. 100MΩ(500V DC mega ohm meter)			
Withstanding voltage	DC : 500V AC, 60Hz, 1minute/ AC : 1,500V AC, 60Hz, 1minute			
Operation temperature	-10°C to +40°C			
Protection rating	Non waterproof			
Materials	Lens : PC, Heat sink : Al			
Certificates				
Weight(Approx.)	3.5kg			

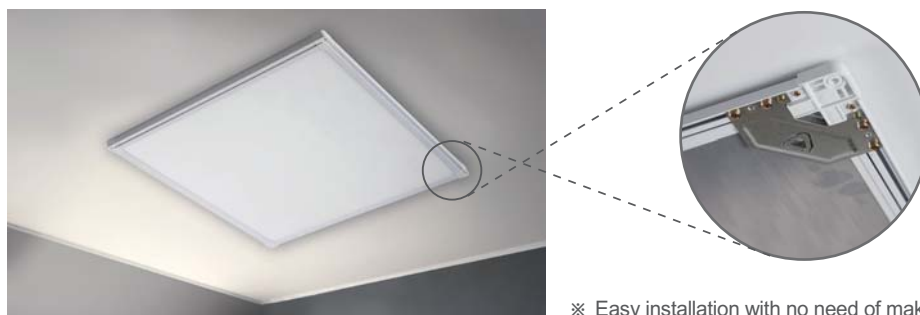
ULEF/ ULSF

Fluorescent LED Lights for General Purpose

Light Distribution and Illuminance



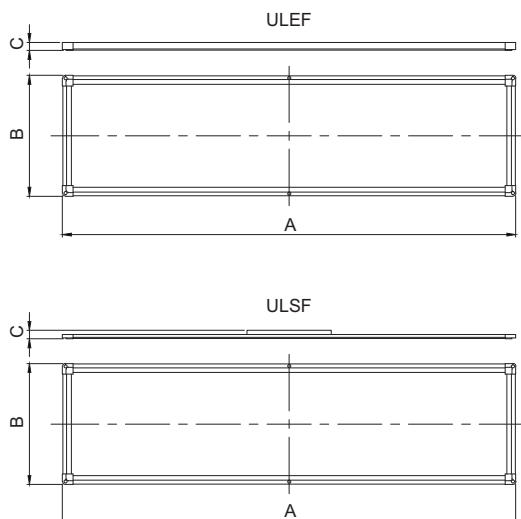
Mounting Structure



※ Easy installation with no need of making mounting holes (ULEF type)

Technical Diagram

(Units : mm)



TYPE	MODEL	A	B	C
ULEF	ULEF-4057-G36060 / ULEF-5057-G36060	1280	340	22
	ULEF-4057-G31230 / ULEF-5057-G31230	640	640	22
	ULEF-2557-G33060	640	340	22
	ULEF-1557-G33030	340	340	22
ULSF	ULSF-4057-G36060 / ULSF-5057-G36060	1280	340	30
	ULSF-4057-G31230 / ULSF-5057-G31230	640	640	30
	ULSF-2557-G33060	640	340	30
	ULSF-1557-G33030	340	340	30

Ordering Specification

ULEF	-	5057	-	G36060
[Model number]		[Power consumption]		[Product length]
<ul style="list-style-type: none"> • ULEF • ULSF 		<ul style="list-style-type: none"> • 5057 : 50W • 4057 : 40W • 2557 : 25W • 1557 : 15W 		<ul style="list-style-type: none"> • G36060 : 640mm x 640mm • G31230 : 1,200mm x 340mm • G33060 : 340mm x 640mm • G33030 : 340mm x 340mm

ULFL

LED Light for General Purpose



Common Specifications

- Alternative solution for existing fluorescent lighting in offices and houses
- Saving energy up to 55% compared to existing fluorescent lightings
- Eco-friendly with no mercury, reduced use of CO2, and no UV
- Maintains brightness in low temperature unlike traditional fluorescent lightings
- Protection rating : Non waterproof
- Certificates : KS, High efficiency materials



ULFL Translucent Lens Type



Optics Specifications		
Model	ULFL-1757-P00001	ULFL-1557-P30000
Lens color	Translucent	
Light color	Cooldaylight	
Color temperature	5,700K	
Luminous flux	2,300lm	
Efficacy (lm/W)	570Lux	
General Specifications		
Model	ULFL-1757-P00001	ULFL-1557-P30000
Voltage	AC220V	
Range for operation voltage	AC220V-240V	
Current	0.57A	
Power consumption	17.5W	15.2W
Insulation resistance	Min. 100MΩ(500V DC mega ohm meter)	
Withstanding voltage	DC : 500V AC, 60Hz, 1minute / AC : 1,500V AC, 60Hz, 1minute	
Operation temperature	-10°C to +40°C	
Protection rating	Non waterproof	
Materials	Lens : PC, Heat sink : Al	
Certificates		
Weight(Approx.)	0.3kg	

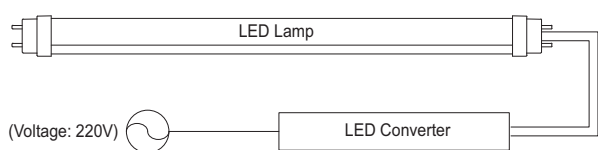
ULFL

LED Light for General Purpose

Light Distribution and Illuminance

Model	Light Distribution Curve	Illumination Feature
ULFL	<p>Luminous Intensity Distribution</p>	<p>570lux</p> <p>ULPL-3057-GG3120 ULPL-1857-GG3120</p> <p>Distance (Unit: m)</p>

Wiring Instructions

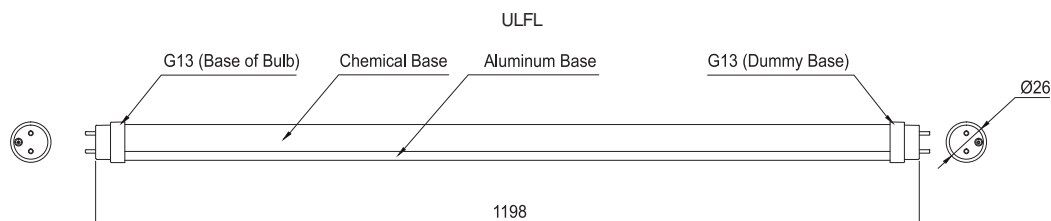


※ Cautions

- Please do not connect magnetic/electric ballast used for fluorescent lightings.
- Use converter for direct wire tube LED lightings.
- Do not directly connect to AC 220V.

Technical Diagram

(Units : mm)



Ordering Specification

ULFL

[Model number]

- ULFL

1757-P00001

[Power consumption]

- 1757-P00001 : 17.5W
- 1557-P30000 : 15.2W

ULPL

Fluorescent LED Light



Common Specifications

- Easy to install using functional things
- Maintains brightness in low temperature unlike traditional fluorescent lightings
- High efficacy, energy saving lighting
- Easy installation on pipe pendants, directly to ceiling, and on raceway using bracket
- Protection rating : Non waterproof
- Certificates : KS, High efficiency materials



ULPL Translucent Lens Type



※ Can choose the color of cap when purchasing



White cap type



Black cap type

Optics Specifications		
Model	ULPL-1857-GG3120	ULPL-3057-GG3120
Lens color	Translucent	
Light color	Cooldaylight	
Color temperature	5,700K	
Luminous flux	2,000lm	3,200lm
Efficacy (lm/W)	730Lux	1,250Lux
General Specifications		
Model	ULPL-1857-GG3120	ULPL-3057-GG3120
Voltage	AC220V	
Range for operation voltage	AC220V-240V	
Current	0.087A	0.143A
Power consumption	18W	30W
Insulation resistance	Min. 100MΩ(500V DC mega ohm meter)	
Withstanding voltage	DC : 500V AC, 60Hz, 1minute/ AC : 1,500V AC, 60Hz, 1minute	
Operation temperature	-10°C to +40°C	
Protection rating	Non waterproof	
Materials	Lens : PC, Heat sink : Al	
Certificates		
Weight(Approx.)	1kg	

ULPL

Fluorescent LED Light

Light Distribution and Illuminance

Model	Light Distribution Curve	Illumination Feature
ULPL	<p>Luminous Intensity Distribution</p>	<p>1,250lux</p> <p>ULPL-3057-GG3120</p> <p>ULPL-1857-GG3120</p> <p>[lx]</p> <p>Distance (Unit: m)</p>



Mounting Structure

※ Bracket for pipe pendant, direct mount to ceiling, and raceway is available.



Pipe pendant type



Pipe pendant bracket



Multifunctional bracket



Direct mount on ceiling type



Multifunctional bracket



Raceway type



Raceway bracket

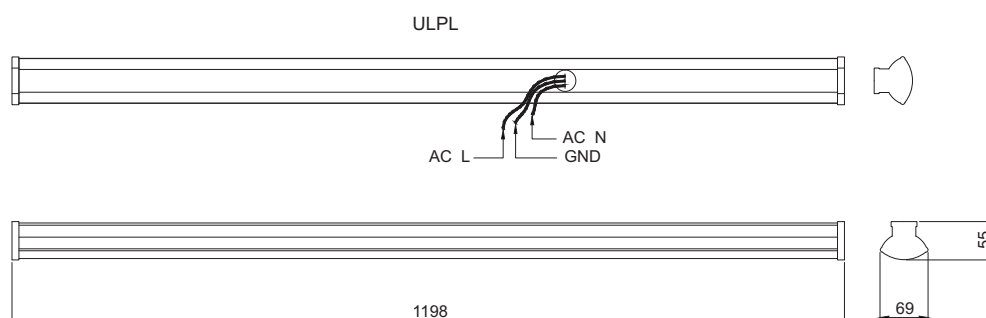


Multifunctional bracket



Technical Diagram

(Units : mm)



Ordering Specification

ULPL

[Model number]

• ULPL

3057-GG3120

[Power consumption]

- 3057 : 30W
- 1857 : 18W



Common Specifications

- 4 different length of 300/ 600/ 900/ 1200 mm available for your application needs
- Features enhanced illumination than than conventional fluorescent indirect lightings
- Eco-friendly with no mercury, reduced use of CO2, and no UV
- Adopts removable mounting bracket and sliding structure, adjustable mounting distance
- Alternative solution for existing fluorescent lighting in commercial/ residential applications
- Protection rating : Non waterproof
- Certificates : KS



ULII Translucent Lens Type



Optics Specifications

Model	ULII-0630-IO300	ULII-1030-IO600	ULII-1430-IO900	ULII-1830-IO1200
Lens color	Translucent			
Light color	Warm white			
Color temperature	3,000K			
Luminous flux	530lm	880lm	1,250lm	1,600lm
Efficacy (lm/W)	120Lux	220Lux	310Lux	400Lux

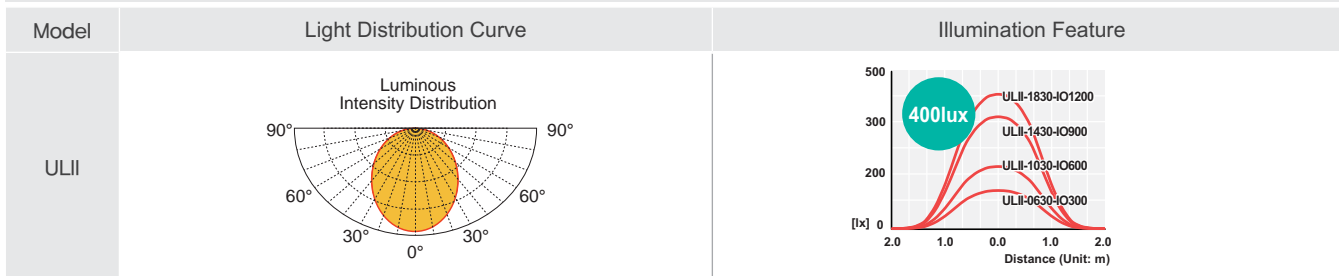
General Specifications

Model	ULII-0630-IO300	ULII-1030-IO600	ULII-1430-IO900	ULII-1830-IO1200
Voltage	AC220V			
Range for operation voltage	AC220V-240V			
Current	0.028A	0.047A	0.066A	0.085A
Power consumption	6W	10W	14W	18W
Insulation resistance	Min. 100MΩ(500V DC mega ohm meter)			
Withstanding voltage	DC : 500V AC, 60Hz, 1minute / AC : 1,500V AC, 60Hz, 1minute			
Operation temperature	-10°C to +40°C			
Protection rating	Non waterproof			
Materials	Lens : PC, Heat sink : Al			
Certificates				
Weight(Approx.)	0.3kg	0.6kg	0.9kg	1.2kg

ULII

Indirect LED Light

Light Distribution and Illuminance



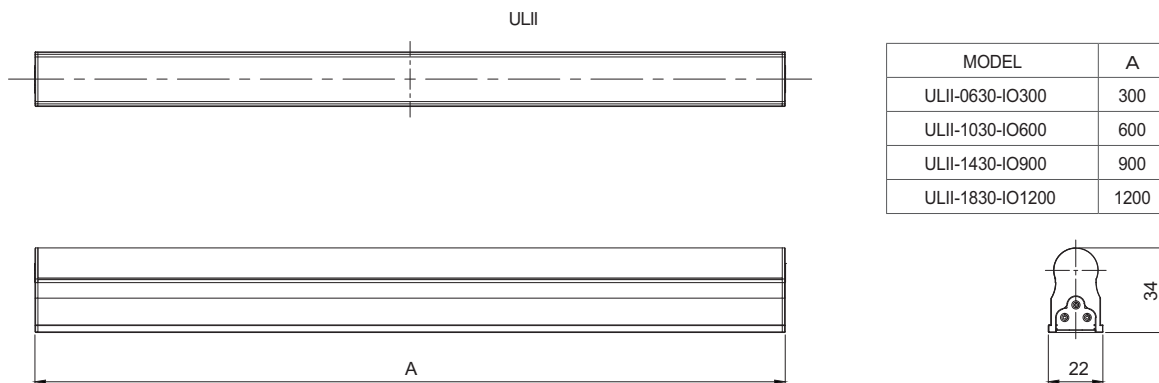
Mounting Instruction



※ ULII and power line can be connected easily using direct connector.

Technical Diagram

(Units : mm)



Ordering Specification

ULII	-	1830	-	IO1200
[Model number]		[Power consumption]		[Product length]
• ULII		<ul style="list-style-type: none"> • 1830 : 18W • 1430 : 14W • 1030 : 10W • 0630 : 6W 		<ul style="list-style-type: none"> • IO300 : 300mm • IO600 : 600mm • IO900 : 900mm • IO1200 : 1,200mm

EXD29

Explosion Proof High Bay LED Light



Common Specifications

- High efficacy of 150 lm/W, saves energy up to 88.4% compared to traditional fluorescent lightings
- Features special heat radiation technology (T-code rating of T6)
- Easy installation with 7 kinds of mounting brackets
- Slim and compact structure (20% lighter than industry average)
- Features enhanced durability for shock and vibration
- Enhanced resistance to salt pollution damage with applying excellent corrosion proof materials
- Surge protection system provides advanced electrical stability
- Mounting Structure : Junction Box (pendant type, wall mount type)
- Certificates : KCs
- Protection rating : Ex d II C T6, IP66



Ceiling 0° type



Pendant type



Wall 90° type



Wall 45° type



Stanchion type



Direct mount type



Junction box type ※ Optimized for exiting light replacement
(Electronic outlet equipped in junction box)



Product Specifications

Model number	Power Consumption(W)	Luminous Flux (lm)	Efficacy (lm/W)	Voltage	Color Temperature(K)	Color Rendering Index (Ra)	Beam Angle (°)	Mounting Features
EXD29-JE-CC	29W	4,350	150	AC100V-240V	5,700	Above 80(Ra)	115	Ceiling 0° type
EXD29-JE-CP	29W	4,350	150	AC100V-240V	5,700	Above 80(Ra)	115	Pendant type
EXD29-JE-CR	29W	4,350	150	AC100V-240V	5,700	Above 80(Ra)	115	Wall 90° type
EXD29-JE-CF	29W	4,350	150	AC100V-240V	5,700	Above 80(Ra)	115	Wall 45° type
EXD29-JE-CS	29W	4,350	150	AC100V-240V	5,700	Above 80(Ra)	115	Stanchion type
EXD29-JE-CN	29W	4,350	150	AC100V-240V	5,700	Above 80(Ra)	115	Direct mount type
EXD29-JE-CJ	29W	4,350	150	AC100V-240V	5,700	Above 80(Ra)	115	Junction box type

Dimension and Weight

Model number	Dimension(Ø, mm)	Weight (Approx.)	Mounting Features
EXD29-JE-CC	Ø 240 x260	7.0kg	Ceiling 0° type
EXD29-JE-CP	Ø 240 x 473	7.9kg	Pendant type
EXD29-JE-CR	Ø 240 x 350 x 356	7.9kg	Wall 90° type
EXD29-JE-CF	Ø 240 x 480 x 347	7.9kg	Wall 45° type
EXD29-JE-CS	Ø 240 x 290 x 207	6.3kg	Stanchion type
EXD29-JE-CN	Ø 240 x 150	5.5kg	Direct mount type
EXD29-JE-CJ	Ø 240 x 290	6.3kg	Junction box type

EXD29

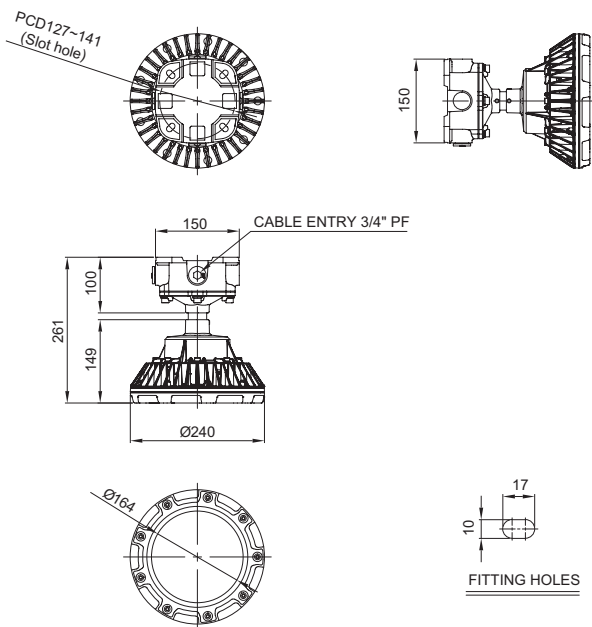
Explosion Proof High Bay LED Light



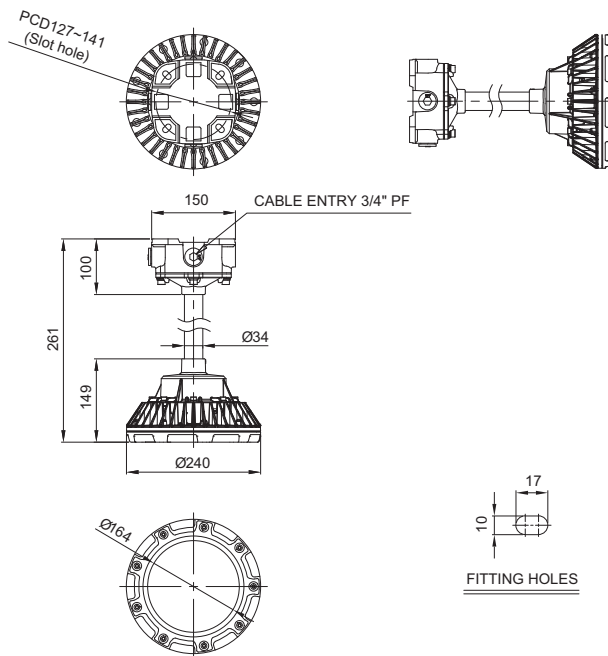
Technical Diagram

(Units : mm)

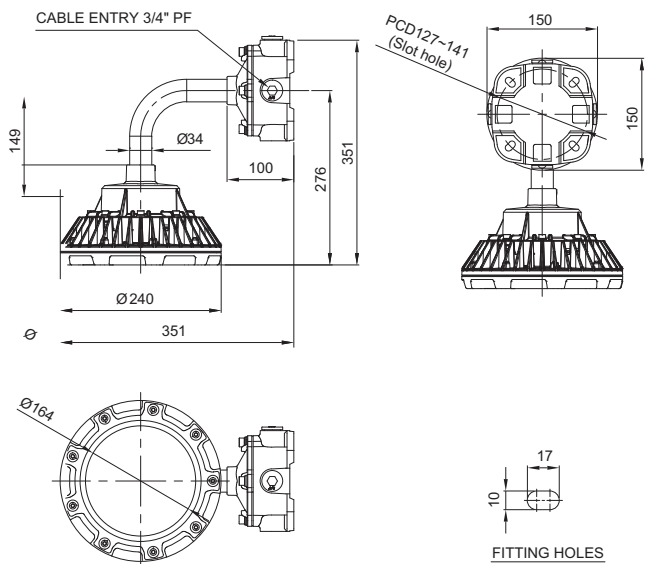
EXD29-JE-CC



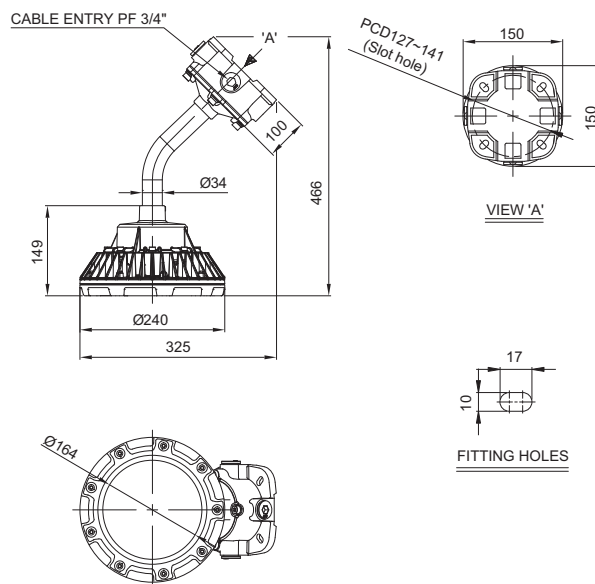
EXD29-JE-CP



EXD29-JE-CR



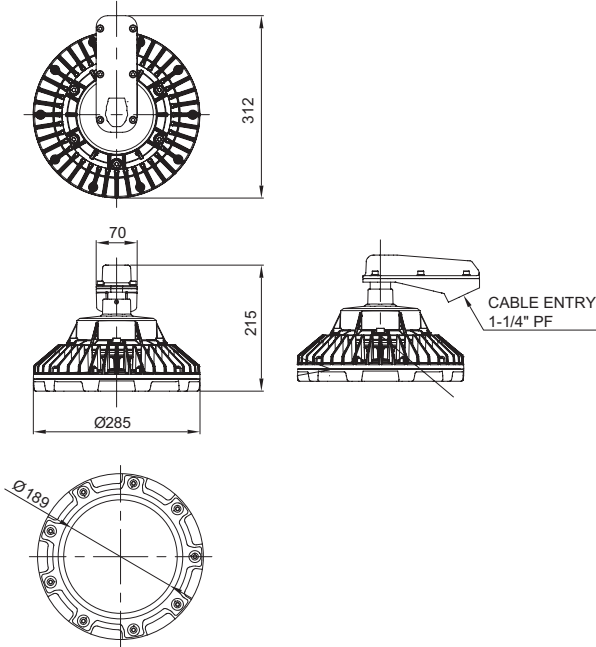
EXD29-JE-CF



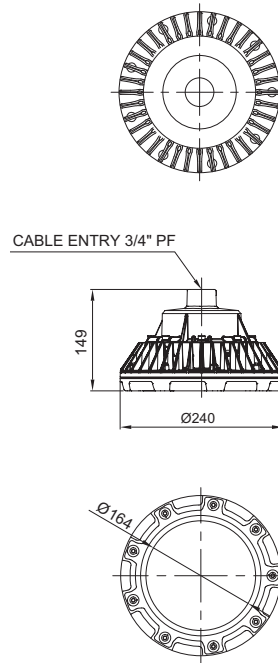
EXD29

Explosion Proof High Bay LED Light

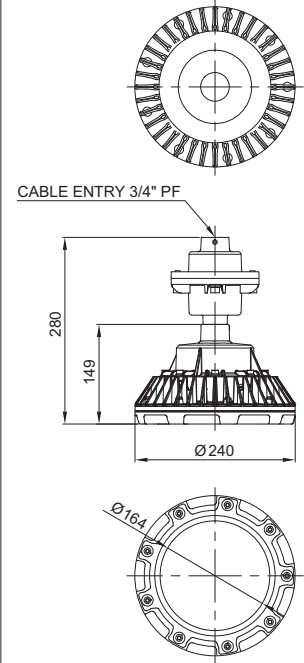
EXD29-JE-CS



EXD29-JE-CN



EXD29-JE-CJ



Light Distribution and Illuminance Cone

Model	Light Distribution Curve	Illuminance Cone Diagram														
EXD29		<table border="1"> <thead> <tr> <th>Luminous flux</th> <th>distance(m)</th> </tr> </thead> <tbody> <tr> <td>560</td> <td>1.7m</td> </tr> <tr> <td>140</td> <td>3.3m</td> </tr> <tr> <td>62</td> <td>5.0m</td> </tr> <tr> <td>35</td> <td>6.7m</td> </tr> <tr> <td>22</td> <td>8.3m</td> </tr> <tr> <td>16</td> <td>10.0m</td> </tr> </tbody> </table>	Luminous flux	distance(m)	560	1.7m	140	3.3m	62	5.0m	35	6.7m	22	8.3m	16	10.0m
Luminous flux	distance(m)															
560	1.7m															
140	3.3m															
62	5.0m															
35	6.7m															
22	8.3m															
16	10.0m															

EXD43/ EXD57/ EXD80

Explosion Proof High Bay LED Lights



Common Specifications (EXD43/ EXD57/ EXD80)

- Ultra high energy efficacy of 150 lm/W (saves up to 88.4% of energy compared to conventional lightings)
- Features special heat radiation technology (T-code rating of T6)
- Easy installation with 7 kinds of mounting brackets
- Slim and compact structure (20% lighter than industry average)
- Features enhanced durability for shock and vibration
- Enhanced resistance to salt pollution damage with applying excellent corrosion proof materials
- Surge protection system provides advanced electrical stability
- Mounting Structure : Junction Box (pendant type, wall type)
- Certificates : KCs
- Protection rating : Ex d IIC T6, IP66



Ceiling 0° type



Pendant type



Wall 90° type



Wall 45° type



Stanchion type



Direct mount type



Junction box type



※ Optimized for exiting light replacement
(Electronic outlet equipped in junction box)

Product Specifications

Model number	Power Consumption(W)	Luminous Flux (lm)	Efficacy (lm/W)	Voltage	Color Temperature(K)	Color Rendering Index (Ra)	Beam Angle (°)	Mounting Features
EXD43-JE-CC	43W	6,450	150	AC100V-240V	5,700	Above 80(Ra)	115	Ceiling 0° type
EXD43-JE-CP	43W	6,450	150	AC100V-240V	5,700	Above 80(Ra)	115	Pendant type
EXD43-JE-CR	43W	6,450	150	AC100V-240V	5,700	Above 80(Ra)	115	Wall 90° type
EXD43-JE-CF	43W	6,450	150	AC100V-240V	5,700	Above 80(Ra)	115	Wall 45° type
EXD43-JE-CS	43W	6,450	150	AC100V-240V	5,700	Above 80(Ra)	115	Stanchion type
EXD43-JE-CN	43W	6,450	150	AC100V-240V	5,700	Above 80(Ra)	115	Direct mount type
EXD43-JE-CJ	43W	6,450	150	AC100V-240V	5,700	Above 80(Ra)	115	Junction box type
EXD57-JE-CC	57W	8,550	150	AC100V-240V	5,700	Above 80(Ra)	115	Ceiling 0° type
EXD57-JE-CP	57W	8,550	150	AC100V-240V	5,700	Above 80(Ra)	115	Pendant type
EXD57-JE-CR	57W	8,550	150	AC100V-240V	5,700	Above 80(Ra)	115	Wall 90° type
EXD57-JE-CF	57W	8,550	150	AC100V-240V	5,700	Above 80(Ra)	115	Wall 45° type
EXD57-JE-CS	57W	8,550	150	AC100V-240V	5,700	Above 80(Ra)	115	Stanchion type
EXD57-JE-CN	57W	8,550	150	AC100V-240V	5,700	Above 80(Ra)	115	Direct mount type
EXD57-JE-CJ	57W	8,550	150	AC100V-240V	5,700	Above 80(Ra)	115	Junction box type
EXD80-JE-CC	80W	12,000	150	AC100V-240V	5,700	Above 80(Ra)	115	Ceiling 0° type
EXD80-JE-CP	80W	12,000	150	AC100V-240V	5,700	Above 80(Ra)	115	Pendant type
EXD80-JE-CR	80W	12,000	150	AC100V-240V	5,700	Above 80(Ra)	115	Wall 90° type
EXD80-JE-CF	80W	12,000	150	AC100V-240V	5,700	Above 80(Ra)	115	Wall 45° type
EXD80-JE-CS	80W	12,000	150	AC100V-240V	5,700	Above 80(Ra)	115	Stanchion type
EXD80-JE-CN	80W	12,000	150	AC100V-240V	5,700	Above 80(Ra)	115	Direct mount type
EXD80-JE-CJ	80W	12,000	150	AC100V-240V	5,700	Above 80(Ra)	115	Junction box type

EXD43/ EXD57/ EXD80

Explosion Proof High Bay LED Lights

Dimension and Weight

Model number	Dimension(Ø, mm)	Weight (Approx.)	Mounting Features
EXD43-JE-CC/ EXD57-JE-CC/ EXD80-JE-CC	Ø 285 x 269	9.1kg	Ceiling 0° type
EXD43-JE-CP/ EXD57-JE-CP/ EXD80-JE-CP	Ø 285 x 481	10.0kg	Pendant type
EXD43-JE-CR/ EXD57-JE-CR/ EXD80-JE-CR	Ø 285 x 373 x 364	10.0kg	Wall 90° type
EXD43-JE-CF/ EXD57-JE-CF/ EXD80-JE-CF	Ø 285 x 502 x 368	10.0kg	Wall 45° type
EXD43-JE-CS/ EXD57-JE-CS/ EXD80-JE-CS	Ø 285 x 312 x 215	8.4kg	Stanchion type
EXD43-JE-CN/ EXD57-JE-CN/ EXD80-JE-CN	Ø 285 x 157	7.6kg	Direct mount type
EXD43-JE-CJ/ EXD57-JE-CJ/ EXD80-JE-CJ	Ø 285 x 300	8.4kg	Junction box type

Light Distribution and Illuminance Cone

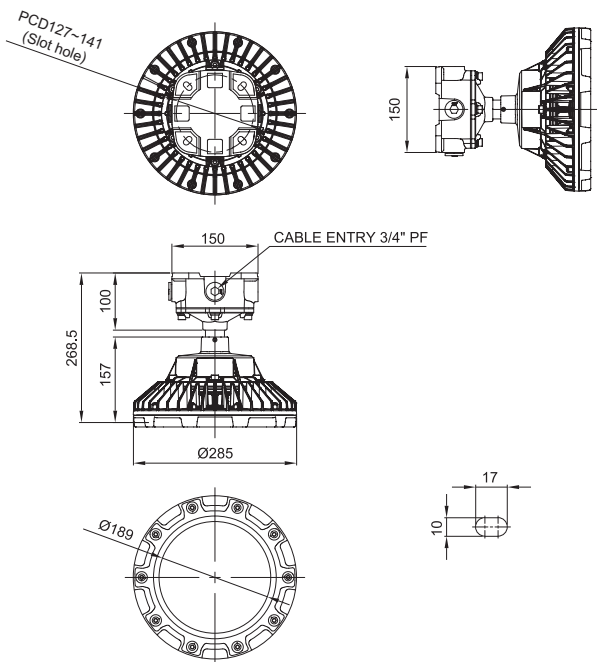
Model	EXD43	EXD57	EXD80																																										
Light Distribution Curve																																													
Illuminance Cone Diagram	<table border="1"> <thead> <tr> <th>Luminous flux</th> <th>distance(m)</th> </tr> </thead> <tbody> <tr><td>839</td><td>1.7m</td></tr> <tr><td>210</td><td>3.3m</td></tr> <tr><td>93</td><td>5.0m</td></tr> <tr><td>52</td><td>6.7m</td></tr> <tr><td>34</td><td>8.3m</td></tr> <tr><td>23.32</td><td>10.0m</td></tr> </tbody> </table>	Luminous flux	distance(m)	839	1.7m	210	3.3m	93	5.0m	52	6.7m	34	8.3m	23.32	10.0m	<table border="1"> <thead> <tr> <th>Luminous flux</th> <th>distance(m)</th> </tr> </thead> <tbody> <tr><td>1,090</td><td>1.7m</td></tr> <tr><td>272</td><td>3.3m</td></tr> <tr><td>121</td><td>5.0m</td></tr> <tr><td>68</td><td>6.7m</td></tr> <tr><td>44</td><td>8.3m</td></tr> <tr><td>30</td><td>10.0m</td></tr> </tbody> </table>	Luminous flux	distance(m)	1,090	1.7m	272	3.3m	121	5.0m	68	6.7m	44	8.3m	30	10.0m	<table border="1"> <thead> <tr> <th>Luminous flux</th> <th>distance(m)</th> </tr> </thead> <tbody> <tr><td>1,564</td><td>1.7m</td></tr> <tr><td>391</td><td>3.3m</td></tr> <tr><td>174</td><td>5.0m</td></tr> <tr><td>98</td><td>6.7m</td></tr> <tr><td>63</td><td>8.3m</td></tr> <tr><td>43</td><td>10.0m</td></tr> </tbody> </table>	Luminous flux	distance(m)	1,564	1.7m	391	3.3m	174	5.0m	98	6.7m	63	8.3m	43	10.0m
Luminous flux	distance(m)																																												
839	1.7m																																												
210	3.3m																																												
93	5.0m																																												
52	6.7m																																												
34	8.3m																																												
23.32	10.0m																																												
Luminous flux	distance(m)																																												
1,090	1.7m																																												
272	3.3m																																												
121	5.0m																																												
68	6.7m																																												
44	8.3m																																												
30	10.0m																																												
Luminous flux	distance(m)																																												
1,564	1.7m																																												
391	3.3m																																												
174	5.0m																																												
98	6.7m																																												
63	8.3m																																												
43	10.0m																																												



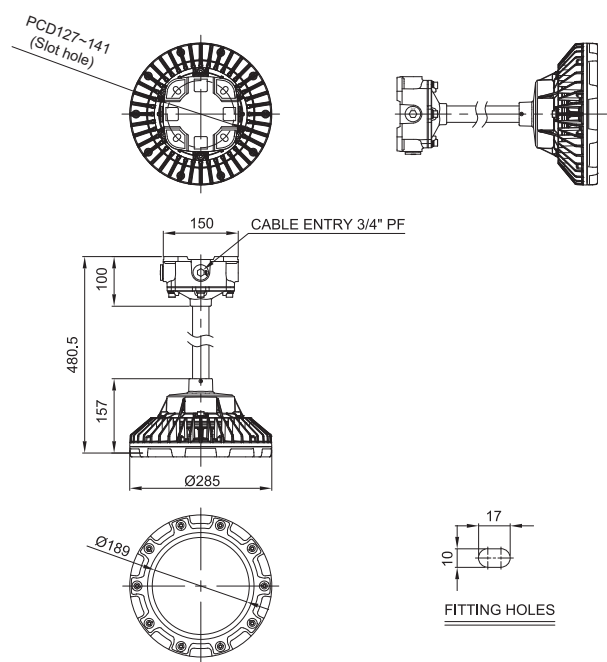
Technical Diagram

(Units : mm)

EXD43/57/80-JE-CC



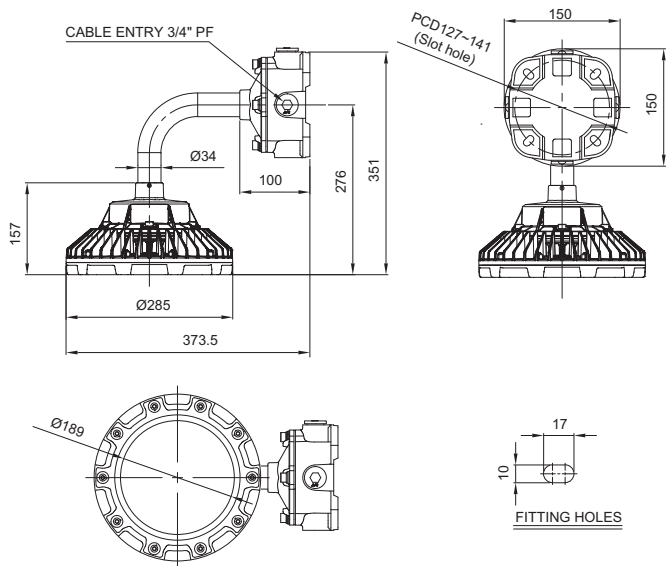
EXD43/57/80-JE-CP



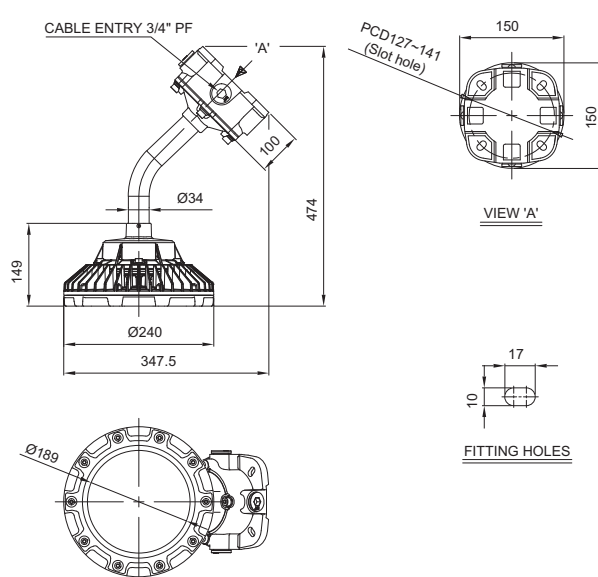
EXD43/ EXD57/ EXD80

Explosion Proof High Bay LED Lights

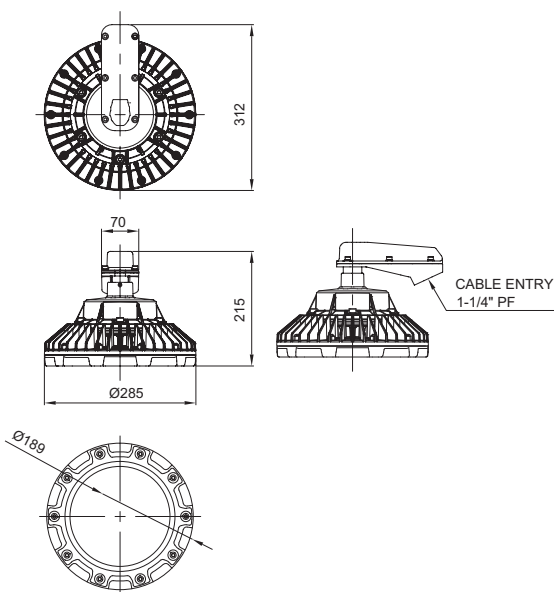
EXD43/57/80-JE-CR



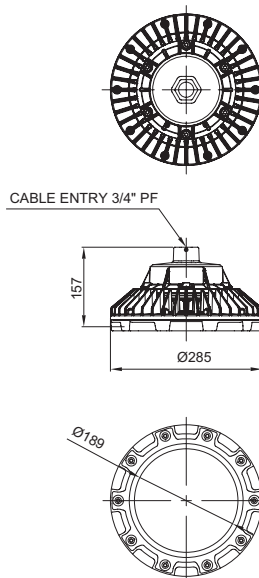
EXD43/57/80-JE-CF



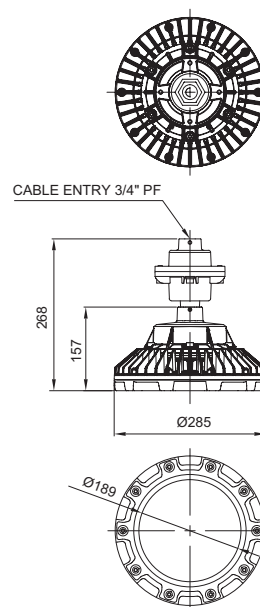
EXD43/57/80-JE-CS



EXD43/57/80-JE-CN



EXD43/57/80-JE-CJ



SL80N4/ SL75N4/ SL65N4

High Bay LED Lights



Common Specifications (SL80N4/ SL75N4/ SL65N4)

- Features ultra high efficiency of 65W (160lm/W) for energy saving
- Ultra slim and lightweight body structure of 2.3kg
- Surge protection system provides advanced electrical stability
- Air-Fin cooling system enabled for enhanced heat radiation
- Innovative optical technology applied in anti-glare lens and enhanced conical illuminance
- Can choose from 4 different prismatic lenses to achieve different light patterns
- Protection rating : Non waterproof
- Certificate : KC, High efficiency materials



110
Clear Cover



100
Frosted Cover



60
Wide Flood Lens

Product Specifications

Model number	Power Consumption	Luminous Flux (lm)	Efficacy (lm/W)	Voltage	Color Temperature(K)	Color Rendering Index (Ra)	Beam Angle (°)	Weight (Approx.)
SL80N4-KE-CRB(PC)	80W	10,400	130	AC200V-240V	5,700	80	110	2.3kg
SL80N4-KE-CRB(PF)	80W	9,200	115	AC200V-240V	5,700	80	100	2.3kg
SL80N4-KE-CRB(PW)	80W	10,400	130	AC200V-240V	5,700	80	60	2.3kg
SL75N4-KE-CRB(PC)	75W	10,500	140	AC200V-240V	5,700	80	110	2.3kg
SL75N4-KE-CRB(PF)	75W	9,375	125	AC200V-240V	5,700	80	100	2.3kg
SL75N4-KE-CRB(PW)	75W	10,300	137	AC200V-240V	5,700	80	60	2.3kg
SL65N4-KE-CRB(DC)	65W	10,400	160	AC200V-240V	5,700	80	110	2.3kg

Dimension and Weight

Part	Model number	Dimension(Ø, mm)	Weight (Approx.)	Features
Body	SL80N4-KE-CRB(PC)	Ø 240 x 163	2.3kg	5700K, Clear Cover(110°), Pattern lens included
	SL80N4-KE-CRB(PF)	Ø 240 x 163	2.3kg	5700K, Frosted Cover(100°), Pattern lens included
	SL80N4-KE-CRB(PW)	Ø 240 x 163	2.3kg	5700K, Wide Flood Lens(60°), Pattern lens included
	SL75N4-KE-CRB(PC)	Ø 240 x 163	2.3kg	5700K, Clear Cover(110°), Pattern lens included
	SL75N4-KE-CRB(PF)	Ø 240 x 163	2.3kg	5700K, Frosted Cover(100°), Pattern lens included
	SL75N4-KE-CRB(PW)	Ø 240 x 163	2.3kg	5700K, Wide Flood Lens(60°), Pattern lens included
	SL65N4-KE-CRB(DC)	Ø 240 x 163	2.3kg	5700K, Clear Cover(110°), Pattern lens included
Accessories	ACC-SL80N-CPC1	Ø 110.4 x 54	260g	Chain pendant bracket
	ACC-SL80N-WMW1	137.3 x 153	625g	Wall bracket
	ACC-SL80N-PPC1	124.3 x 82	17g	Pipe pendant bracket
	ACC-SL80N-SHP1	Ø 360 x 77.6	407g	Lampshade
	ACC-SL80N-SWA1	12 x 900	10g	Fall prevention wire

SL80N4/ SL75N4/ SL65N4

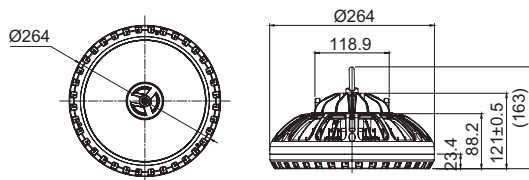
High Bay LED Lights



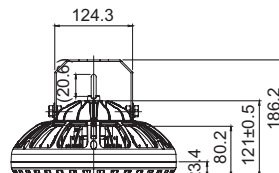
Technical Diagram

(Units : mm)

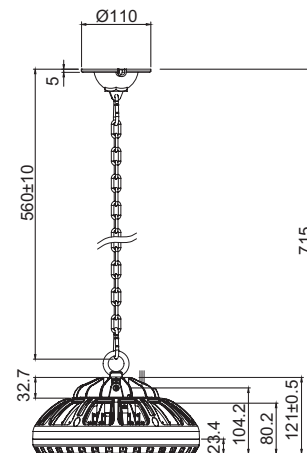
Body



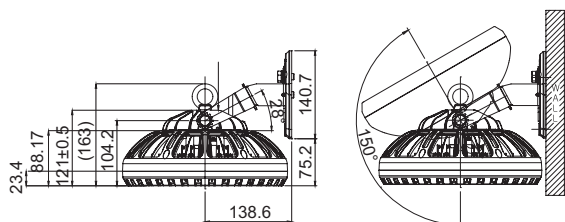
Body + Pipe pendant bracket



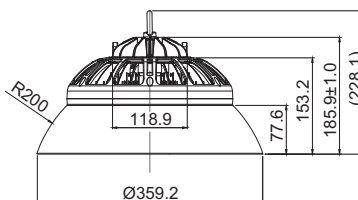
Body + chain pendant bracket



Body + Wall bracket



Body + additional lampshade



Customization

• Options depending on mounting types



Wall bracket



Pendant bracket



Chain pendant bracket

• Additional options



Fall prevention wire



Fall prevention wire

SL120N4

High Bay LED Light



Common Specifications

- Features ultra high energy efficiency
- Ultra slim and lightweight body of up to 3-3.5kg
- Surge protection system (8kV) provides advanced electrical stability
- Innovative optical technology applied in anti-glare lens and enhanced conical illuminance
- Features special heat radiation technology
- Can choose from various prismatic lenses to achieve different light patterns
- Protection rating : Non waterproof
- Technical Certificate : KC, High efficiency materials



110
Clear Cover



100
Frosted Cover



60
Wide Flood Lens

Product Specifications

Model number	Power Consumption	Luminous Flux (lm)	Efficacy (lm/W)	Voltage	Color Temperature(K)	Color Rendering Index (Ra)	Beam Angle (°)	Weight (Approx.)
SL120N4-KE-CRB(PC)	120W	18,000	150	AC200V-240V	5,700	80	110	3-3.5kg
SL120N4-KE-CRB(PF)	120W	16,200	135	AC200V-240V	5,700	80	100	3-3.5kg
SL120N4-KE-CRB(PW)	120W	17,400	145	AC200V-240V	5,700	80	60	3-3.5kg

Dimension and Weight

Part	Model number	Dimension(Ø, mm)	Weight (Approx.)	Features
Body	SL120N4-KE-CRB(PC)	Ø 288 x 134.2	2.9kg	Converter included (Converter weight : 0.4kg)
	SL120N4-KE-CRB(PF)	Ø 288 x 134.2	2.9kg	
	SL120N4-KE-CRB(PW)	Ø 288 x 134.2	2.9kg	
Accessories	ACC-SL80N-CPC1	Ø 110.4 x 54	260g	Chain pendant bracket
	ACC-SL120N-WMW1	137.3 x 153	625g	Wall bracket
	ACC-SL120N-PPC1	124.3 x 82	17g	Pipe pendant bracket
	ACC-SL120N-SHP1	Ø 360 x 77.6	407g	Lampshade
	ACC-SL80N-SWA1	12 x 900	10g	Fall prevention wire

SL120N4

High Bay LED Light



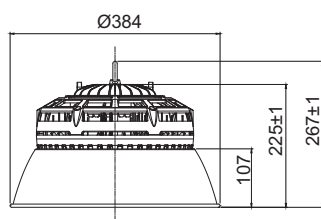
Technical Diagram

(Units : mm)

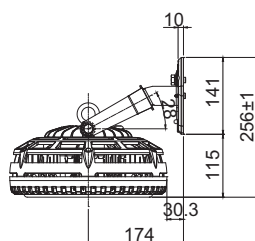
Body



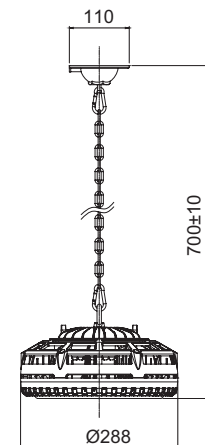
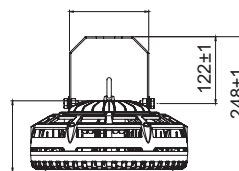
Body + additional lampshade



Body + wall Bracket



Body + pendant bracket



Customization

• Options depending on mounting types



Wall bracket



Pendant bracket



Chain pendant bracket

• Additional options



Reflector



Additional lampshade

EXD-JE-CN-EXTB-130 series

Explosion Proof High Bay LED Light



Common Specifications

- High efficacy of 150 lm/W, energy saving up to 88.4% compared to traditional lightings
- Features special heat radiation technology (T-code rating of T6)
- Easy installation with 7 kinds of mounting brackets
- Ultra slim and lightweight body of up to 3-3.5kg (20% lighter than industry average)
- Features enhanced durability for shock and vibration
- Enhanced resistance to salt pollution damage with applying excellent corrosion proof materials
- Surge protection system provides advanced electrical stability
- Mounting Structure : Junction box (pendant type, wall type)
- Certificates : KCs
- Protection rating : Ex d IIC T6, IP66



EXD-JE-CN-EXTB-130 29W



Pendant type



Wall 90° type

Product Specifications

Model number	Power Consumption(W)	Luminous Flux (lm)	Efficacy (lm/W)	Voltage	Color Temperature(K)	Color Rendering Index (Ra)	Beam Angle (°)	Mounting Features
EXD29-JE-CN-EXTB-130	29W	4,350	150	AC100V-240V	5,700	Above 80(Ra)	115	Junction box type

Dimension and Weight

Model number	Dimension(Ø, mm)	Weight (Approx.)	Features
EXD29-JE-CN-EXTB-130	Ø 240 x 364	7.8kg	Junction box type

Light Distribution and Illuminance Cone

Model	Light Distribution Curve	Illuminance Cone Diagram
EXD29		

EXD-JE-CN-EXTB-130 series

Explosion Proof High Bay LED Lights

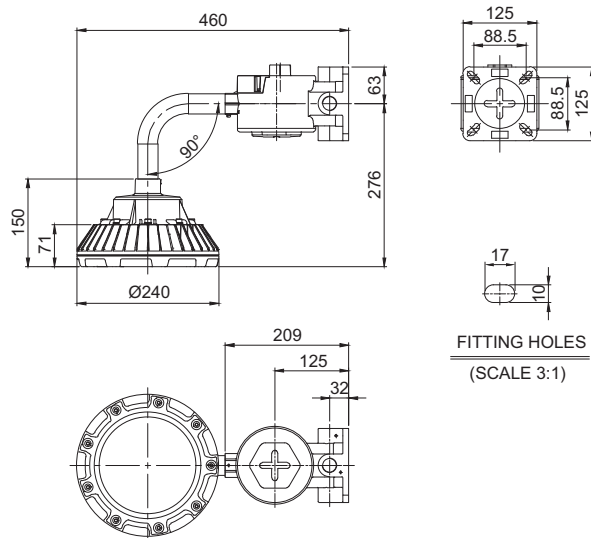
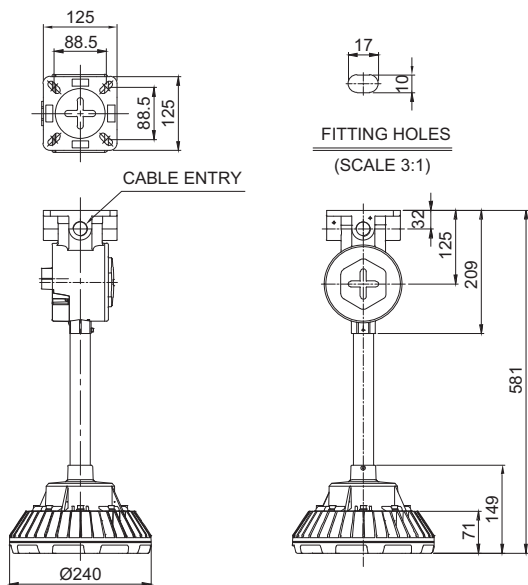


Technical Diagram

(Units : mm)

EXD29-JE-CN-EXTB-130-P
(Pendant type)

EXD29-JE-CN-EXTB-130-R
(Wall 90° type)



Customization



Stanchion type



Junction box type ※ Optimized for exiting light replacement
(Electronic outlet equipped in junction box)



Wall 45° type

EXD-JE-CN-EXTB-130 series

Explosion Proof High Bay LED Lights



Common Specifications

- High efficacy of 150 lm/W, energy saving up to 88.4% compared to traditional lightings
- Features special heat radiation technology (T-code rating of T6)
- Easy installation with 7 kinds of mounting brackets
- Ultra slim and lightweight body of up to 3-3.5kg (20% lighter than industry average)
- Features enhanced durability for shock and vibration
- Enhanced resistance to salt pollution damage with applying excellent corrosion proof materials
- Surge protection system provides advanced electrical stability
- Mounting Structure : Junction box (pendant type, wall type)
- Certificates : KCs
- Protection rating : Ex d I I C T6, IP66



EXD-JE-CN-EXTB-130 43W

EXD-JE-CN-EXTB-130 57W

EXD-JE-CN-EXTB-130 80W



Pendant type



Wall 90° type

Product Specifications

Model number	Power Consumption(W)	Luminous Flux (lm)	Efficacy (lm/W)	Voltage	Color Temperature(K)	Color Rendering Index (Ra)	Beam Angle (°)
EXD43-JE-CN-EXTB-130	43W	6,450	150	AC100V-240V	5,700	Above 80(Ra)	115
EXD57-JE-CN-EXTB-130	57W	8,550	150	AC100V-240V	5,700	Above 80(Ra)	115
EXD80-JE-CN-EXTB-130	80W	12,000	150	AC100V-240V	5,700	Above 80(Ra)	11

Dimension and Weight

Model number	Dimension(Ø, mm)	Weight (Approx.)	Features
EXD43-JE-CN-EXTB-130/ EXD57-JE-CN-EXTB-130/ EXD80-JE-CN-EXTB-130	Ø 285 x 372	9.9kg	Junction box type

Light Distribution and Illuminance Cone

Model	EXD43	EXD57	EXD80																																										
Light Distribution Curve																																													
Illuminance Cone Diagram	<table border="1"> <thead> <tr> <th>Luminous flux</th> <th>distance(m)</th> </tr> </thead> <tbody> <tr><td>839</td><td>1.7m</td></tr> <tr><td>210</td><td>3.3m</td></tr> <tr><td>93</td><td>5.0m</td></tr> <tr><td>52</td><td>6.7m</td></tr> <tr><td>34</td><td>8.3m</td></tr> <tr><td>23.32</td><td>10.0m</td></tr> </tbody> </table>	Luminous flux	distance(m)	839	1.7m	210	3.3m	93	5.0m	52	6.7m	34	8.3m	23.32	10.0m	<table border="1"> <thead> <tr> <th>Luminous flux</th> <th>distance(m)</th> </tr> </thead> <tbody> <tr><td>1,090</td><td>1.7m</td></tr> <tr><td>272</td><td>3.3m</td></tr> <tr><td>121</td><td>5.0m</td></tr> <tr><td>68</td><td>6.7m</td></tr> <tr><td>44</td><td>8.3m</td></tr> <tr><td>30</td><td>10.0m</td></tr> </tbody> </table>	Luminous flux	distance(m)	1,090	1.7m	272	3.3m	121	5.0m	68	6.7m	44	8.3m	30	10.0m	<table border="1"> <thead> <tr> <th>Luminous flux</th> <th>distance(m)</th> </tr> </thead> <tbody> <tr><td>1,564</td><td>1.7m</td></tr> <tr><td>391</td><td>3.3m</td></tr> <tr><td>174</td><td>5.0m</td></tr> <tr><td>98</td><td>6.7m</td></tr> <tr><td>63</td><td>8.3m</td></tr> <tr><td>43</td><td>10.0m</td></tr> </tbody> </table>	Luminous flux	distance(m)	1,564	1.7m	391	3.3m	174	5.0m	98	6.7m	63	8.3m	43	10.0m
Luminous flux	distance(m)																																												
839	1.7m																																												
210	3.3m																																												
93	5.0m																																												
52	6.7m																																												
34	8.3m																																												
23.32	10.0m																																												
Luminous flux	distance(m)																																												
1,090	1.7m																																												
272	3.3m																																												
121	5.0m																																												
68	6.7m																																												
44	8.3m																																												
30	10.0m																																												
Luminous flux	distance(m)																																												
1,564	1.7m																																												
391	3.3m																																												
174	5.0m																																												
98	6.7m																																												
63	8.3m																																												
43	10.0m																																												

EXD-JE-CN-EXTB-130 series

Explosion Proof High Bay LED Lights

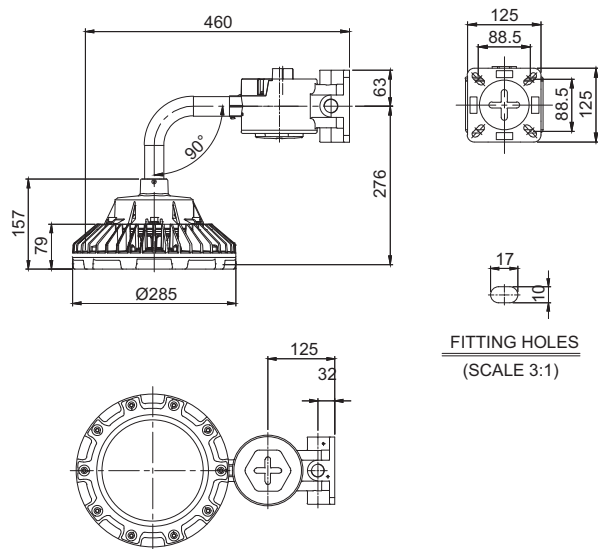
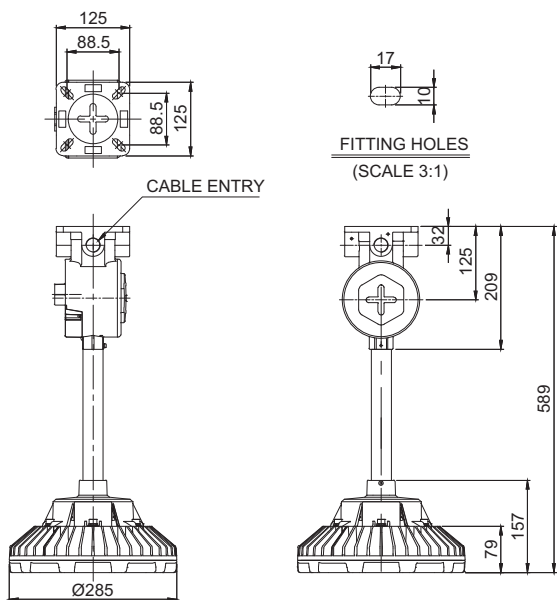


Technical Diagram

(Units : mm)

EXD43/ 57/ 80-JE-CN-EXTB-130-P
(Pendant type)

EXD43/ 57/ 80-JE-CN-EXTB-130-R
(Wall 90° type)



Customization



Stanchion type



Junction box type ※ Optimized for exiting light replacement
(Electronic outlet equipped in junction box)



Wall 45° type

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	Operating Mode	Icon	Operating Mode
	Buzzer		Speaker
	Horn		Bell
	Motor siren		MP3
	Decibel		

Specifications Icons

Icon	Operating Mode	Icon	Operating Mode
	Magnet type		Ambient operating temperature
	NPN type transistor		PNP type transistor
	IP rating		Wireless Network

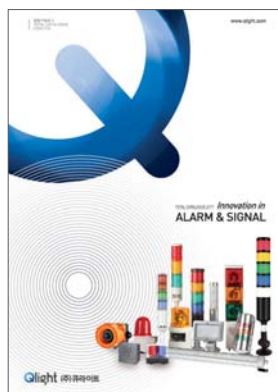
Detail Icons

Icon	Operating Mode	Icon	Operating Mode
	Common specification		External view drawing
	Wiring		Mounting
	User specifications		Model selection

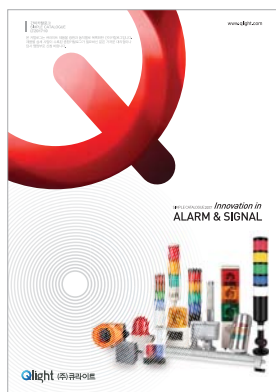
Qlight Catalogue Introduction

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.

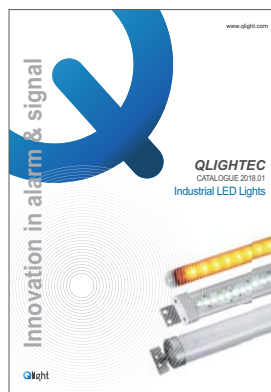
There are warning/signal lights, electric signal horns, signal tower lights, warning light bars, PC control tower lights, industrial LED lights, aviation obstruction lights, and limit switches.



Total Catalogue



Simple Catalogue



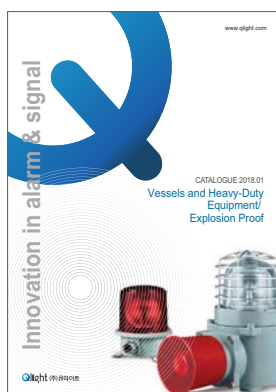
Industrial LED Lights



Signal Tower Lights



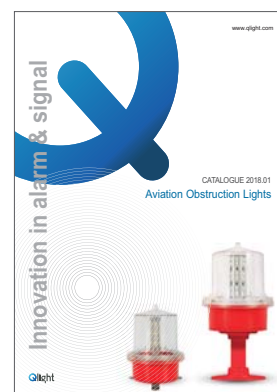
Warning/ Signal/ Signal & Electric Horn



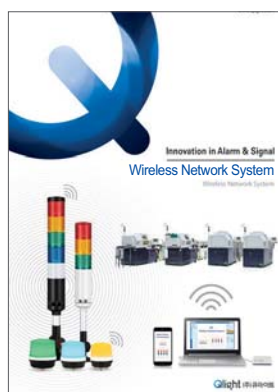
Vessels and Heavy-Duty Equipment/ Explosion Proof



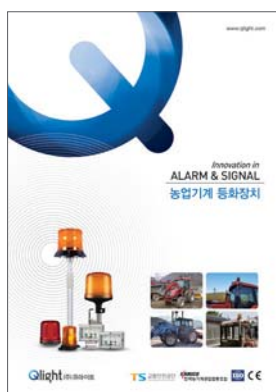
Warning Light Bar



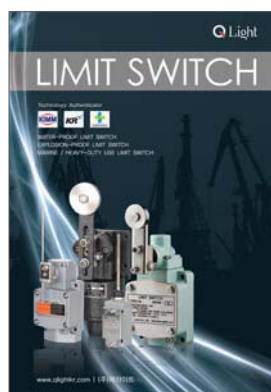
Aviation Obstruction Lights



Wireless Network System



Agriculture Machine Warning Light



Limit Switch



For Steel Manufacturing Facilities



FOR YOUR
SAFETY

Specification and dimensions listed in this catalogue are subject to change without prior notice for product quality improvement. The newest product information is available on our web site. (www.qlight.com) Please read the Instruction Manual attached to the product carefully before installation and use.

Qlight Catalogue Introduction

Signal Tower Lights

Warning/ Signal & Electric Horn

Vessels and Heavy-Duty & Equipment/ Explosion Proof

Warning Light Bar

Aviation Obstruction Lights

Industrial LED Lights

Qlight Co., Ltd. www.qlight.com | qlightkr@qlight.com

Head Office | A-412, 579, Gyeongin-ro, Guro-gu, Seoul, Korea Tel. +82-80-328-2222 Fax : +82-2-2679-6154

Factory | 185-25, Mukbang-Ro, Sangdong-Myeon, Gimhae-si, Gyeongsangnamdo, Korea Tel. +82-80-328-1111

Qlight Public Relations & Marketing Team Office | Nakdong-daero, Sasang-gu, Busan, Korea(Eomgung-Dong) Tel : +82-51-245-0017

Qlight USA, Inc. www.qlight.com www.qlightusa.com | sales@qlightusa.com

3003 North First Street, Suite #341, San Jose, CA 95134 USA Tel. +1.408.519.5740 Fax. +1.408.519.5739

SHANGHAI Qlight Electronic Co., Ltd. www.qlight.com www.qlightcn.com | qlightcn@qlight.com

China Factory/ Shanghai Sales Office | #19, Nanda Road, Baoshan Area, Shanghai, China Tel. +86.21.6651.7100 Fax. +86.21.6315.3929



WARNING LIGHT | ELECTRONIC HORN | SIGNAL TOWER LIGHT | EMERGENCY LIGHT BAR | LED OBSTRUCTION LIGHT | LED WORK LIGHT