

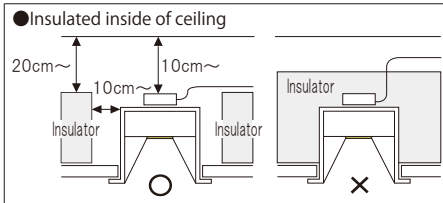
## MMP-080D/1H/10B/DL/3

Technical drawing of the MLA-080/DF01 LED light fixture. The drawing includes a side view showing the fixture's profile with dimensions: ceiling cut out diameter Ø82, ceiling thickness 9~25mm, fixture height 45mm, mounting bracket height 3mm, and total height 90.3mm. A top view shows the circular base with dimensions 32.5mm and 48.3mm. A detail view shows the wiring connections: + RED and - BLACK. A cross-section view shows the internal components with dimensions: 66.1mm, 63.1mm, and 65mm. The drawing is labeled with dimensions in mm.

# ModuleX

# Installation Guide | Lighting Fixture

## MMP-080D/1H/10B/DL/3

To install the fixture safely 《 Read carefully and follow all the instructions in the guide 》			
⚠ Warning : Failure to install the fixture properly could result in persona l injury.		⊘ : Prohibited	
⚠ Caution : Failure to install the fixture properly could result in property damage.		❗ : Strict observance	
Before installation	⚠ Warning	⊘	<p>The fixture is for indoor use only in general conditions.This fixture can only be installed on a horizontal ceiling. Can not be used following conditions (Causes of falling, electrocution and fire)</p> <div><div>●On the wall</div><div>●Plases affected by wind or air-conditioner mashine</div><div>●On the floor</div><div>●Inclined, uneven surface</div><div>●Outside</div><div>●Ambient temperature under 0℃ and over 35℃</div><div>●Near fire</div><div>●Ceiling which can't hold the fixture weight</div><div>●High humidity</div><div>●Dusty areas, corrosive gas outbreaks areas</div><div>●Areas get direct sunlight</div><div>●Vibrated or shocked areas</div></div> <p>Please contact if you are not able to judge whether installation environment is suitable to the places or not.</p>
			
	⚠ Caution	❗	<p>Even when using it indoors, do not use it in a place where there is a sulfur component around the equipment. (Sulfur components may also be contained in some foods, chemicals, papers, rubber products, and car exhaust gas.)</p>
			<p>❗ Please follow the fixtures' indication or specification for the distance of irradiated area. (Causes of change in shape, change in color of irradiated objects)</p>
<p>❗ Carefully check the size of the lighting fixtures and secure sufficient space in the ceiling.</p>			
For electric wiring	⚠ Warning	❗	<p>Only qualified person may work on electric wiring and equipment.(Cause of accidents)</p>
		❗	<p>Please use a compatible power supply and compatible driver. (Cause of non-lighting / fire)</p>
		❗	<p>Be sure power supply voltage is within ±6% mentioned in rating plate or the guide. (Causes of short life of lamps•electrification•fire)</p>
		❗	<p>Be sure all the wires and codes are not damaged. (Causes of falling•damage)</p>
		⊘	<p>Do not perform live-line construction. There is a risk of electric shock or product failure.</p>
		⊘	<p>Do not install other electronic devices (devices that use a motor such as a ventilation fan) in the same circuit as it may lead to equipment failure.</p>
At lighting fixture installation	⚠ Warning	❗	<p>Please follow the fixtures' instruction or this guide to installthe fixture and lamp. (Causes of falling•electrification•fire)</p>
		❗	<p>Models equipped with a safety wire (fall prevention wire) as standard equipment to prevent falling due to an earthquake, etc. Be sure to install it securely according to this manual.</p>
		❗	<p>Be sure to turn off the power when installing the fixtue or lamp. (Cause of electric shock)</p>
		⊘	<p>Do not touch the fixture when switch is on or just turn off the switch because of high temperature.</p>
		⊘	<p>Do not put or cover the fixture by any cloths, papers, or insulators.(Causes of not lighting•fire)</p>
		⊘	<p>Do not put metal or burning objects in the gaps of the equipment. (Causes of electric shock, fire, and equipment failure)</p>
		❗	<p>Make sure that the outer shell of the main body other than the equipment mounting part does not come into contact with equipment such as construction materials and ducts inside and outside the ceiling. (Causes of falling, electric shock, and fire)</p>
		⊘	<p>Do not dismount or remodel fixtures. (Cause of electrification • fire • falling • broken fixtures)</p>
		⊘	<p>Do not operate with wet hands.</p>
		⊘	<p>Do not grab and lift wires or cables that are not the product itself. It may be damaged.</p>
	❗	<p>If you smell smoke, see smoke, or find anything unusual, please turn the switch off and ask construction companies to repair. (Cause of electrification•fire)</p>	
	⚠ Caution	❗	<p>Use protective equipment such as clean gloves when installing and removing equipment. (Cause of injury)</p>
		❗	<p>Install so that the heat of the equipment does not affect the fire protection equipment such as sprinklers. (Cause of malfunction)</p>
❗		<p>Please note that noise may enter the device if it is lit near a communication device such as a radio.</p>	

MMP-080D/1H/10B/DL/3

Installation Details		Installation Diagram • Caution	
<div><div>1</div><div>Install the mounting equipment for ceiling cut out</div></div> <div><div>1</div><div>Cut out a hole and install the mounting frame.</div></div> <div><div>2</div><div>Slide the metal fittings from upper side.</div></div> <div><div>3</div><div>Use a screw driver and tighten the metal fittings.</div></div>	<div><div><div>⚠a</div><div>On step 2, please fix the metal fitting firmly with your fingers. If not, it may cause falling of fixtures</div></div><div><div>⚠b</div><div>Make sure to tighten the metal fittings securely with a screwdriver. (torque 1.0 ~2.0 N・m) If it is loose, it may cause falling of the fixture</div></div><div><div>⚠</div><div>Make sure to have the height at least 150mm above the ceiling to install the driver.</div></div></div>	<div><div>1 Ceiling cut out</div><div><div><div>Φ82</div></div><div><div>Mounting frame</div><div>2</div><div>3</div><div>Metal fitting</div><div>Ceiling</div></div></div></div>	<div><div><div>⚠a</div><div>Push tight</div></div><div><div>⚠b</div><div>Standard to screw torque 1.0~2.0N・m</div></div></div>
<div><div>Optional parts installation</div></div> <div><div>1</div><div>Turn around the hood.</div></div> <div><div>2</div><div>Pull out the body from the hood.</div></div> <div><div>3</div><div>Turn around the option holder, and put out .</div></div> <div><div>4</div><div>Put a filter in hood.</div></div> <div><div>5</div><div>Turn around the option holder, and put in.</div></div>	<div><div><div>⚠</div><div>Please attention that the sharpener lens is counted two pieces of filter lenses.</div></div><div><div>⚠c</div><div>Don't put in the filters than the rule number of pieces. Causes of falling and damage.</div></div><div><div>⚠d</div><div>Match the mark. Then,push the hood and slide it,in order to lock the body. (to prevent from falling)</div></div></div>	<div><div><div>1</div><div>Body</div><div>2</div><div>Hood</div><div>OPTION HOLDER</div><div>3</div><div>FILTER</div></div><div><div><div>UP to 2FILTERS</div><div>OPTION HOLDER</div><div>+</div><div>Sharpner lens</div><div>×</div><div>×</div></div></div><div><div><div>Match the mark.</div><div>Slide the hood.</div></div></div></div>	<div><div><div>⚠c</div><div>OPTION HOLDER</div></div><div><div>⚠d</div></div></div>

Installation Details		Installation Diagram • Caution	
<div><div>Wiring connection</div></div> <div><div>⚠</div><div>Please connect according to the description of a power supply.</div></div> <div><div>⚠</div><div>When connecting the driver, careful attention should be paid to connecting + and -.</div></div> <div><div>⚠</div><div>Metal part in a cable point, please don't touch with bare hand directly.</div></div>	<div><div>Wiring diagram</div><div><div>PE N L</div><div>DC480mA (500mA MAX)</div><div>36.9V +RED</div><div>-BLACK</div><div>LED</div><div>Driver</div></div><div><div>CAUTION !</div><div>Do not reverse polarity !</div><div><div>+ RED</div><div>- BLACK</div></div></div></div>	<div><div>1</div><div>Install the safety wire to the mounting frame.</div></div> <div><div>2</div><div>Install the fixture to the mounting frame.</div></div>	<div><div><div>⚠f</div><div>mounting frame</div><div>Safety wire</div></div><div><div>⚠g</div><div>Mounting frame</div><div>Inside</div><div>Clean gloves</div></div></div>
<div><div>Installation to ceiling</div></div> <div><div>1</div><div>Install the safety wire to the mounting frame.</div></div> <div><div>2</div><div>Install the fixture to the mounting frame.</div></div>	<div><div><div>1</div><div>Safety wire</div><div>2</div><div>Mounting frame</div><div>Body</div></div></div>	<div><div><div>⚠f</div><div>Make sure to install the safety wire to the mounting frame securely.</div></div><div><div>⚠g</div><div>Use clean soft cloth to clean up and maintain inner side of the body.</div></div><div><div>⚠</div><div>The description of a power supply.</div></div><div><div>⚠</div><div>Make sure the fixture will not touch any objects in ceiling.</div></div></div>	<div><div><div>⚠f</div><div>mounting frame</div><div>Safety wire</div></div><div><div>⚠g</div><div>Mounting frame</div><div>Inside</div><div>Clean gloves</div></div></div>