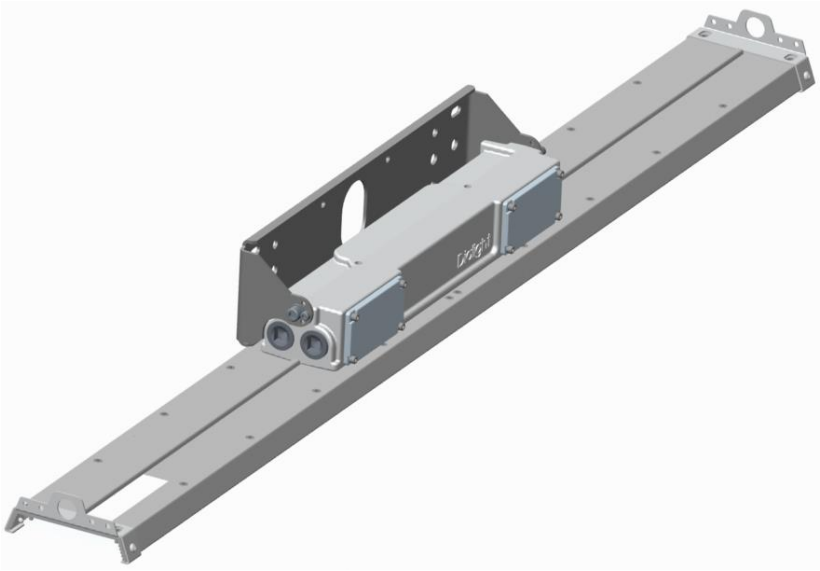
Vigilant® for CE Low Profile Linear

Important Information:
These instructions contain safety information, read and follow them carefully. Dialight will not accept any responsibility for injury, damage or loss which may occur due to incorrect installation, operation or maintenance.

Operating Instructions



Note: Save these instructions for future use

9100127334899 REV A
Dialight, 1501 Route 34 South, Farmingdale, NJ, USA 07727
Tel: 732 919 3119 Fax: 732 751 5778 www.dialight.com

Safety Instruction:
The installation, operation, and maintenance must be carried out by an electrician suitably trained.
CE Compliant

- Observe the national safety rules and regulations during installation.
- Be certain electrical power is OFF before and during installation and maintenance.
- The technical data indicated on the LED luminaire is to be observed.
- Luminaire must be connected to a wiring system with an equipment-grounding conductor.
- Make sure the supply voltage is within the luminaries' voltage rating.
- Do not operate if the lens is cracked or damaged. All fasteners should be properly seated.
- Changes of the design and modifications to the LED luminaire are not permitted.
- Only genuine Dialight replacement must be used when unforeseen repairs are required.
- Substitution of components may impair suitability for certification of the luminaire.
- Repairs must only be carried out by a qualified electrician with appropriate knowledge.
- No user serviceable parts inside.
- No field replaceable parts.
- Do not open when energized.
- Potential electrostatic charging hazard – refer to instructions.
- Do not let power cord touch hot surfaces.
- Do not mount near gas or electric heaters.
- Do not use this equipment for other than its intended use.
- WARNING: Polycarbonate lens susceptible to chemical attack. See reactivity list.
- The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.
- Do not operate in ambient temperatures above those indicated on the luminaire nameplate.
- Must install using NEMA 4x rated components to maintain rating
- Do not remove or tamper with cable gland. The gland has been supplied and installed to the luminaire accordance with the manufacturer's instructions.

Conformity with Standards
This equipment conforms to the standards specified in the Declaration of Conformity. It has been designed, manufactured and tested in accordance with:
BS EN 9001
DLC
DLC Premium for clear lens cool white CCT models.
RCM
ABS
CB Scheme/ENEC & CE

Equipment Application
Fixtures are suitable for wet locations in unclassified locations: See product label.

Temperature Code: T5 for 2' model, T5 for 4' model
Ambient Temperature Range: -40°C to +65°C

Technical Data
EU Low Profile Vigilant® Linear

Certifications
CE Compliant
EN/IEC 60598-1
IEC 60598-2-1
IEC 61347-1
IEC 61347-2-13
EN 50102 (IK testing)
EN_60529, IP66/67
IEC 62778
EN 62471
IEC 62031
EN 55015
EN 61547
IEC 62031
NEMA 4x

Nominal Supply Voltage
100-277V AC, 50-60Hz or 120-250VDC

Lumens	**Input Power: [W]**
9000	70
7000	52
5000	37
3000	24

Power Factor	>0.90
ATHD	<20%

Temperature
-40°C to +65°C
[-40°F to +149°F]
T5 = -40°C to +65°C

Housing Material
Powder Coated Aluminum

Finish
Epoxy Powder Coat
Gray, RAL 7040
ACP Black, RAL 9017
Orange, RAL 2001
White, RAL 9010
Yellow, RAL 1018

Lens
Polycarbonate
Polyphenylsulfone (PPSU)

Weight	**[kg]**
2' w/o Brackets	3.5
4' w/o Brackets	5.0
Standard Swivel Bracket	0.6
Low Profile Swivel Bracket	0.9
End Cap Brackets	0.2
Pole Mount Brackets	0.2

Dimensions
See Technical Diagrams

Installation
Ensure that the mains voltage supply is disconnected before connecting the luminaire. Install the equipment in accordance with the manufacturer's instructions as well as any other applicable electric codes.

Always transport and store equipment in its original packaging and keep in a dry location. When unpacking check for cracks/damage in the housing, glass, and frame. If in doubt, do not install.

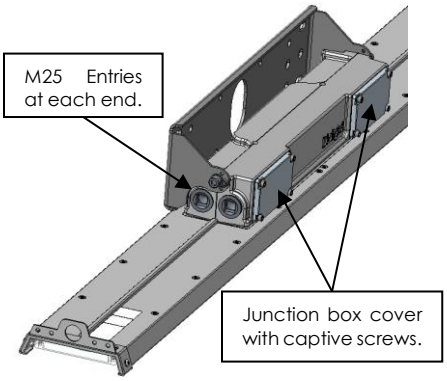
For supply connections use wire rated for at least 90˚C

Necessary precautions should be taken to prevent moisture entering the conduit and thus the fixture.

For maximum long-term reliability and light output, the light must be installed in free air.

The Linear fixture is threaded for two M25 entries at each end, of the Power Supply Housing's Junction Box Sections, in order to be assembled to conduit or with cable per below…

- Remove the M25 pipe plugs and attach conduit or cord grips where shown below.



- Use conductive pipe sealant for all metal fittings and conduit. Use Teflon tape for polycarbonate M25 plugs.
  Warning: If there is moisture present, or chance of it, in the conduit system then necessary precautions should be taken by the installer to prevent the moisture from entering thru the cable or conduit and entering the fixture. Failure to comply with the above could void factory warranties.
- Fixture is factory wired with LINE, NEUTRAL and GROUND leads at each end. Remove the Junction Box Cover, which has captive screws, to attach incoming power to the blue (Neutral) wire, brown (Line) and green/yellow (Ground) wire leads with Lever Connectors.
- Ensure that the o-ring is properly seated in the groove; reattach the Cover. Tighten all screws to 15 in/lbs (1.75Nm)
- Restore power and verify operation.

Temperature Control
The Area Light series luminaire fixture design incorporates an over-temperature control circuit that reduces input power should internal temperatures reach a maximum level. As a result, light output may be reduced.

Mounting Luminaire
Refer to www.dialight.com for the most up to date information on available mounting brackets, hardware and accessories.

Do not remove or tamper with any factory installed cable glands. The gland has been supplied and installed to the luminaire accordance with the manufacturer's instructions. Tampering with this cable gland may compromise IPX6/X7 rating.

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Improper installation and operation of this luminaire may invalidate the warranty. For maximum long term reliability and light output, the luminaire must be installed in free air.

Refer to diagrams section for bracket mounting patterns, bolt sizes and tightening torques.
Ensure proper secondary retention methods are used where required.

Electrical Connection
Wago lever connectors are supplied for units that have factory installed cable whips.

Other units have the insulation separated from their ends and heatshrink applied for easy insulation removal. Make connections using appropriate wire interconnection methods such as lever connectors or wire nuts. Ensure all connections are compliant with the connector manufacturer's specifications as well as all applicable codes.

For single phase (100 -277 VAC) or (120-250VDC):

WIRE(AC)	WIRE(DC)	COLOURED CABLE
AC LIVE	DC POSITIVE	BROWN
AC NEUTRAL	DC RETURN	BLUE
GROUND	GROUND	GREEN/YELLOW
DIMMING +	DIMMING +	PURPLE (VIOLET)
DIMMING -	DIMMING -	GREY

Note: Only the live conductor is fused.

When connecting the conductors extra care should be taken in order to maintain the hazardous protection. The insulation of the conductors shall reach up to the interconnecting device. The conductor itself shall not be damaged.

The connectible minimum and maximum conductor cross sections shall be observed (see electrical connection data). Remove any foreign bodies from the fixture.

Single Fixture Electrical Connections
Connections need only be made in either side of the wire box. Select the side that allows the cable to be routed in the safest manner.

Thru Wire Electrical Connections
For through wire connections use both wiring areas as necessary.

NOTE: Only single cables to be used on each connection.

Dimming Models
The Dialight Linear Light fixture supports variable dimming through a two wire interface, allowing precise light level setting and energy savings.

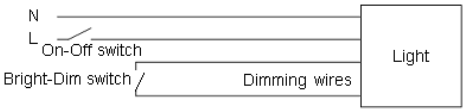
Dimming is controlled by means of a 0-10 VDC signal connected to the dimming wires (to be provided by the installer). The dimmer should be a 0-10V current sink type, capable of sinking 2mA per light.

Important Notes
- The low voltage dimming wires are connected to the grounded output section of the driver inside the light. Never connect either one to the Hot or Neutral supply wires.
- The '-' wire (Grey) is at ground potential.
- Only use these wires for dimming.

Application Examples

1) Variable Voltage Control
An analog 0-10V active dimmer may be connected to the two wires to control the light output of the fixture. Multiple lights may be connected to the same dimmer, as long as the maximum current rating of the dimmer is not exceeded.

2) Step dimming
Simply shorting the two wires together will cause the light to dim to a low level. When done, the light will dim down to approximately 5% of its full light output, with a corresponding decrease in input power.



Cable Entries
When assembling the cable entries for the mains connection, always observe the manufacturer's specifications for the glands used. Unused cable entries must be closed and sealed by a suitably certified blanking element that includes a sealing o-ring.

When supplied with a component certified enclosure, a suitably certified gland with a seal or gasket must be installed in order to maintain the IP rating of the equipment.

Taking into Operation
Prior to operating, check the luminaire for its correct installation in compliance with these operating instructions and other applicable regulations.

NOTE: Only certified equipment may be put into operation.

WARNING:
Do not over tighten cable glands as the protection rating may be compromised.

The cable entries should be securely tightened to ensure that the minimum protection rating is achieved. The cable entry should be rated to minimum of IPX6 to maintain the protection level of the fixture. Do not over tighten as the protection rating may be compromised.

Suitably certified cable entries must be used which include a sealing washer or o-ring to maintain the IPX6/X7 rating of the enclosure.

Conditions for Use
Improper installation and operation of this luminaire May invalidate the warranty. For maximum long term reliability and light output, the luminaire must be installed in free air.

The Vigilant® Linear Light fixture design incorporates an over- temperature control circuit that reduces input power should internal temperatures reach a maximum level. In this event light output may be reduced.

Maintenance
To avoid personal injury, disconnect power to the light and allow the unit to cool down before performing maintenance.

WARNING:
This LED Luminaire should not require any electrical maintenance. Never open the luminaire (other than the junction box lid if supplied); there are no user-serviceable parts inside.
We suggest performing visual, mechanical and electrical inspections on a regular basis. We suggest routine checks to be made on a yearly basis.
If the lens requires periodical cleaning to ensure continued photometric performance. Clean the lens with a damp, non-abrasive, lint-free cloth. If not sufficient, use **ONLY** mild soap and water.

Inspection
Within the scope of a maintenance or inspection routine the following should be included: Cable entries must be free of corrosion. Perform visual mechanical and electrical inspections on a regular basis. We recommend routine checks to be made on a yearly basis. Frequency of use and environment should determine this. It is recommended to follow an Electrical Preventive Maintenance Program as described in NFPA 70B: Recommended Practice for Electrical Equipment

The lens should be cleaned periodically, as needed, to ensure continued photometric performance.

Clean the lens with a damp, non-abrasive, and lint-free cloth. If not sufficient, use mild soap or a liquid cleaner. Do not use and abrasive, strong alkaline, or acid cleaners as damage may occur.

The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire shall be replaced.

Do not operate if the lens is cracked or damaged. All fasteners should be properly seated.

Disposal Recycling
When the apparatus is disposed of, the respective national regulations on waste disposal should be observed. WEEE (Waste electrical & electronic equipment) registration number WEE/DC2678RY.

Repairs / Overhaul / Modification
The relevant national regulations which apply to the maintenance / servicing of electrical apparatus in explosive atmospheres shall be observed.

Should the luminaire enclosure be damaged, only a replacement will be permitted. In case of doubt, the equipment should be returned to point of purchase for inspection/repair/replacement.

WARNING:
Modifications to the device or changes to its design are not permitted. The equipment must be operated according to the intended purpose in a perfect and undamaged condition

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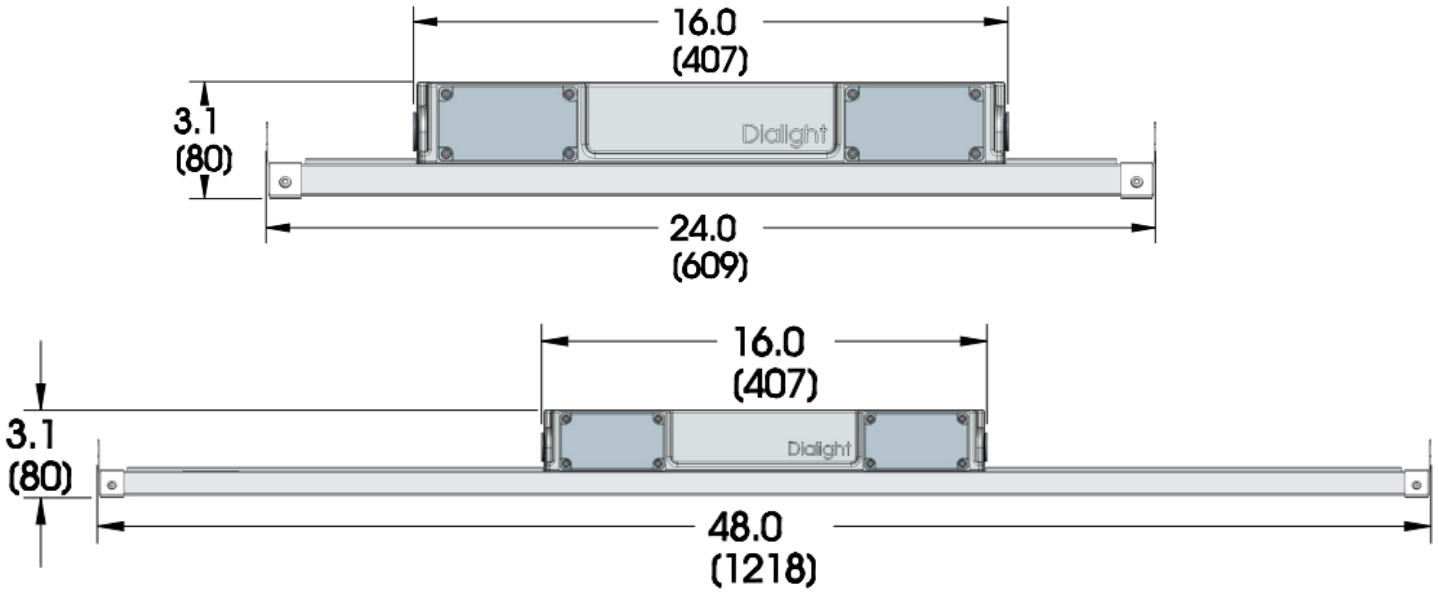
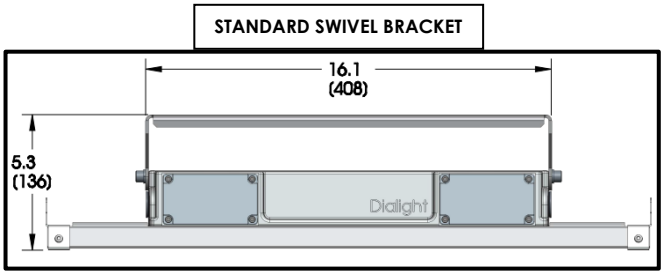
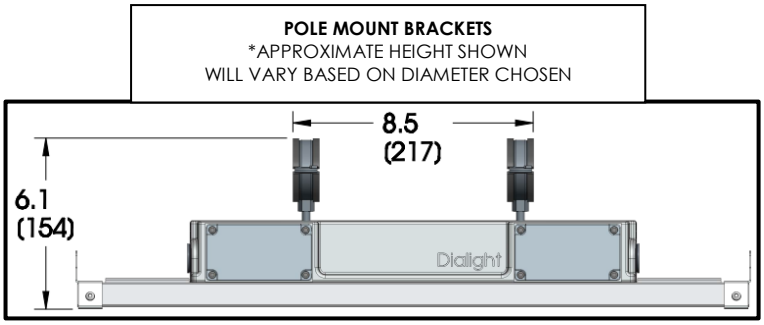
Technical Diagrams

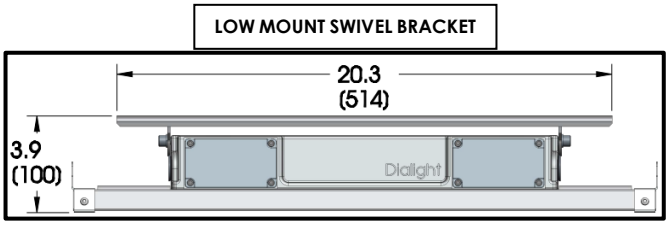
2' and 4' versions shown below. Both shown to give sense of scale.



Heights shown for different mounting bracket options







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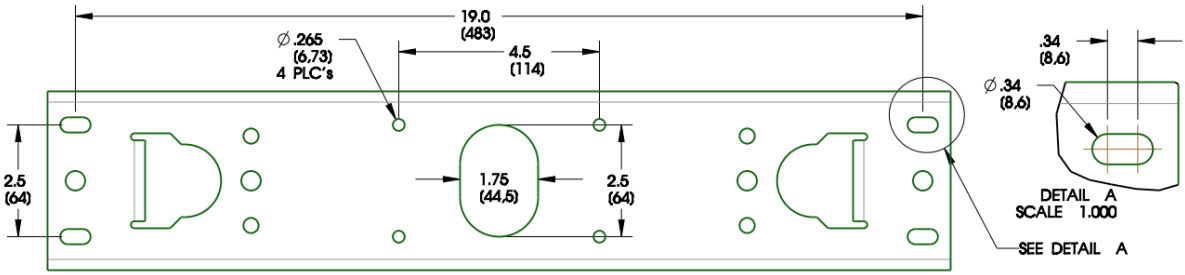
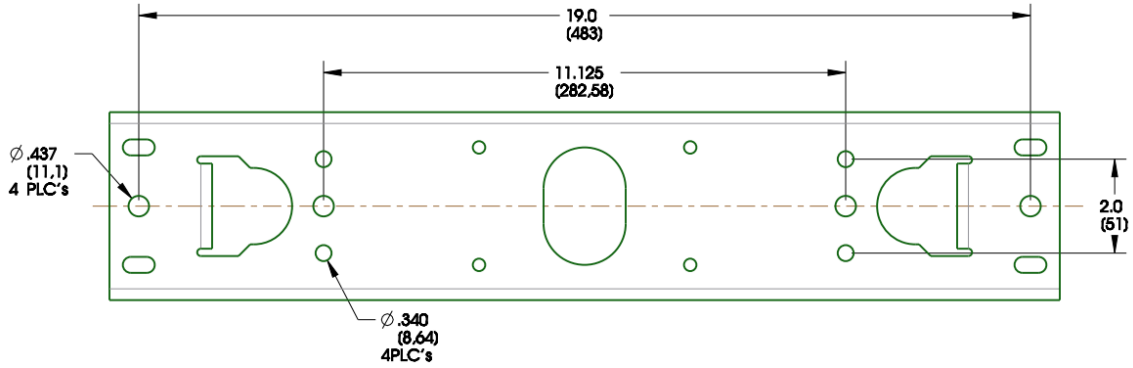
Low Profile Mounting Bracket Hole Patterns

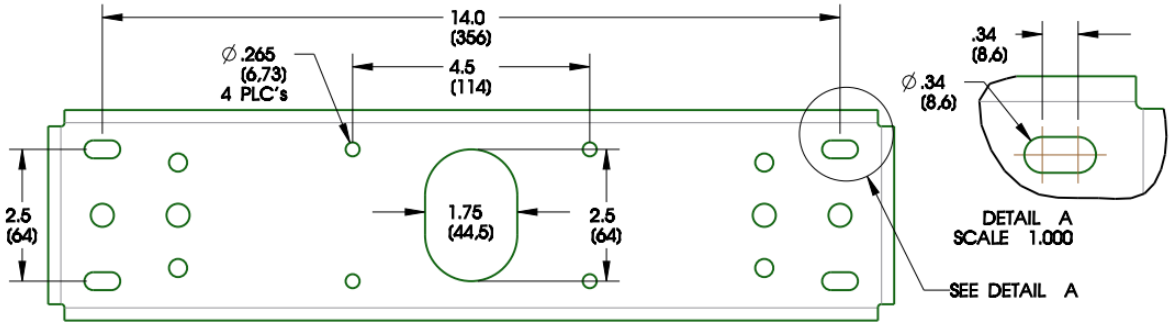
Low Mounting Bracket – 2.5" [64mm] Spacing Pattern



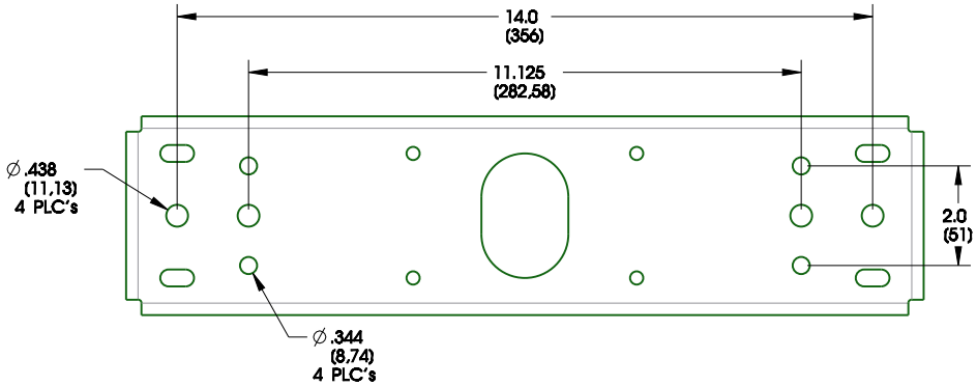
Low Mounting Bracket – 2.0" and Centered Symmetrical Pattern



Standard Swivel Mounting Bracket – 2.5" [64mm] Spacing Pattern



Standard Swivel Bracket – 2.0" and Centered Symmetrical Pattern



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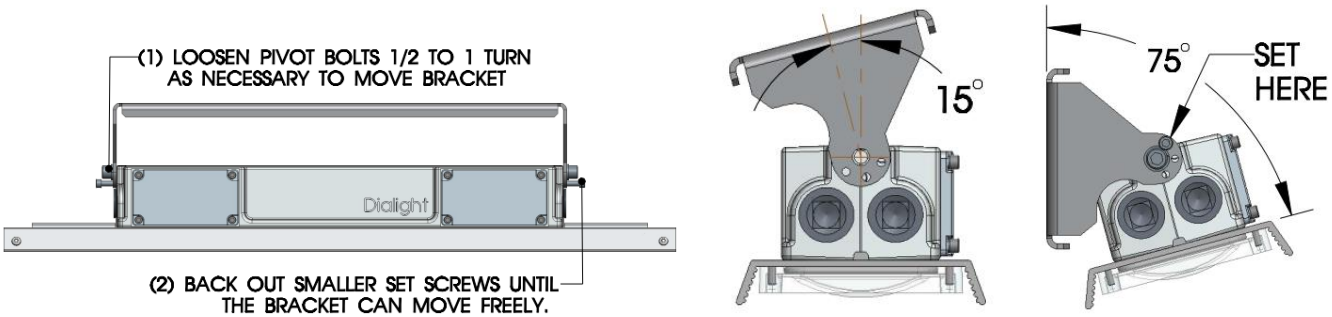
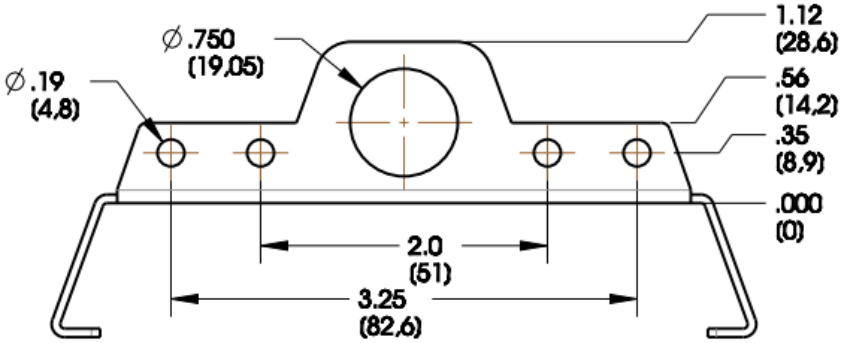
Swivel Bracket Adjustment



Notes – The staggered set screw pattern allows for 15° adjustment of the bracket between 0° and 90°. In order to use all of the positions the set screw will have to be removed and reinstalled in the appropriate positions in the bracket.

Linear End Cap Bracket Hole Pattern



ALL BRACKET FASTENERS ARE STANDARD SIZES

Main pivot bolt is 5/16 – 18 x 3/4" - Recommended Mounting Torque 9 ft-lb

Set screw bolt is 8-32 x 3/8" – Recommended Mounting Torque 1 ft-lb

Official Statement

All statements, technical information, and recommendations contained herein are based on information and tests that Dialight believes to be reliable. The accuracy or completeness thereof is not guaranteed. In accordance with Dialight "Terms and Conditions of Sale" and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his or her intended use and assumes all risk and liability whatsoever in connection therewith.

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CE

Year CE Mark Affixed: 18

EU DECLARATION OF CONFORMITY

Manufacturer: Dialight Corporation
1501 Route 34 South, Farmingdale, New Jersey, 07727, USA
+1 (732) 919 3119

Equipment: Linear LED Luminaire

Model Series: LJExxxxxxxxxxx, LKExxxxxxxxxxx Series

Directives :	**Standards :**
Low Voltage Directive 2014/35/EU	EN 60598-1 :2015 EN 62471:2008 EN 61347-2-13 :2014 + A1 :2016
Electromagnetic Compatibility Directive 2014/30/EU	EN 55015 : 2013 EN 61547 :2009
Restriction of the Use of Certain Hazardous Substances (RoHS) Directive 2011/65/EU	
Ecodesign Requirements for Energy-Related Products Directive 2009/125/EC	
Energy Labelling Directive 2010/30/EU	

Equipment Marking is based on type examination via CB test Certificate DE 2-02561.

100-277VAC, 50/60Hz or 120-250VDC,
Max 66W, IP66/67, Class I
Ta = -40°C to +65°C

Quality Management System Accreditation to ISO 9001: UL DQS file 10002116 QM08

We declare that our products to which this declaration relates are in conformity with the listed directives per the provisions of the aforementioned standards.

X _____ Date: 10-Sep-2018

Rizwan Ahmad, VP Engineering & Technology – Power & Connectivity
1501 Route 34 South, Farmingdale, NJ 07727 USA

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