ZLED LIGHTING
ZLEDLIGHTING.COM

EMERGENCY

Distributor for:

GRINSAFE®

SCOUT™ GHSL

LED Explosion Proof Lighting

SCOUT™ GHSL high performance LED explosion proof lighting is designed to be installed in areas where flammable gases, vapors, or dusts are present in sufficient quantities to create a risk of explosion or fire. Reliable and long-lifetime LiFePO4 battery providing 90-minute runtime for emergency applications.

Compliance

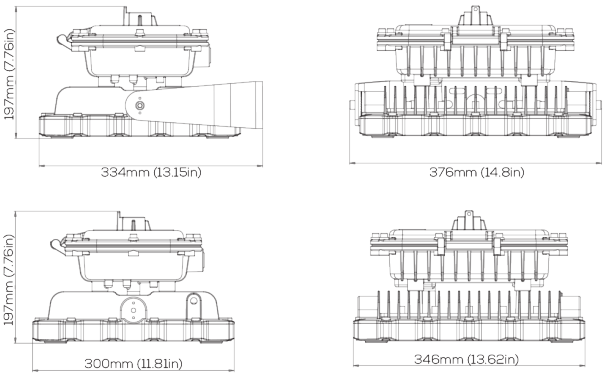
NEC/CEC Standard

UL 844 Hazardous Locations
- Class I Division 1, Group C, D
- Class I Division 2, Group A, B, C, D
- Class II Division 1, Group E, F, G
- Class II Division 2, Group F, G
- Class III
- Class I, Zone 1, Group IIB
- Class I, Zone 2, Group IIC

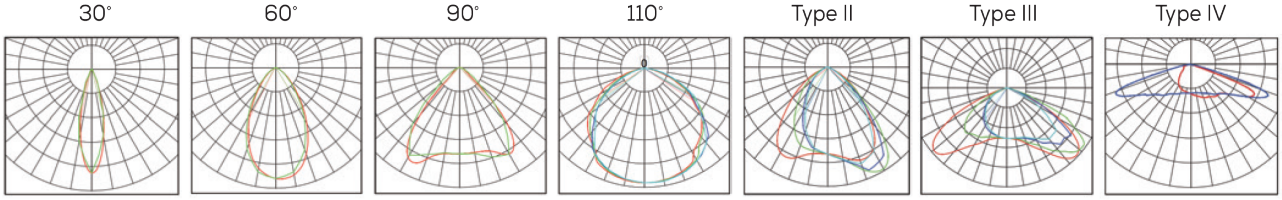
CSA C22.2 No.137
CSA C22.2 No.141
CSA C22.2 No.250.0:21
UL924
UL 1598 Wet Locations
UL 1598A Marine Outside Type (Salt Water)
UL 8750 LED Safety
Paint Spray Booth
ABS, FCC
IP66/67 | IK09 | 5G | NEMA 4X

Dimensions

unit: mm(in)



Beam Distribution



Technical Data

Electrical	
Rated Power	80W / 100W
Input Voltage	120-277V/AC
Input Frequency	50/60Hz
Power Factor	› 0.95
Driver Efficiency	≥ 90%
DC output Ripple & Noise	‹200mVP-P

Emergency Back-up	
Emergency Output	15W , ≥2,420lm 9W , ≥1,350lm (cold weather)
Recharging time	24 hours
Battery Backup Runtime	≥90 mins

Optical	
Lumen Output	12800lm ~ 16000lm
Luminous Efficacy (Lumens per Watt)	160 lm/W
Beam Angle	30° / 60° / 90° / 110° / T2 / T3 / T4
Correlated Color Temperature (CCT)	Amber 2700K 3000K 4000K 5000K
CRI	Ra›70

Environmental	
Ambient Operating Temperature	0°C ~ +50°C -20°C ~ +50°C (cold weather)
Ambient Operating Humidity	10%~90% RH
Atmospheric pressure	86~106KPa

Technical	
Lens Material	Tempered glass
Mounting Options	Pendant / Ceiling / Wall mount / Stanchion / U-Bracket
Cable Entries	3/4" NPT, 1-1/4" NPT, 1-1/2" NPT
Net Weight	11.5kg (25.35 lbs)

Downloadable IES Files

Ordering Information and Mounting Accessories

GHSL	16	U	C	1	110	NW	TG	PD	GR	XX
Model	Power	Voltage	Temp. Ambient	Ex. Level	Optics	Color Temp	Lens	Mount Style	Color	Accessories

Model
GHSL

Power
13 – 12,800 lm (80W)
16 – 16,000 lm (100W)

Voltage
U -120-277V/AC

Temp. Ambient
(blank) - Not Required (0-50°C)
C - Cold weather (-20-50°C)

Ex. Level
1 - C1D1, C2D1
2 - C1D2, C2D1
3 - None Hazardous

Optics
30 - 30°
60 - 60°
90 - 90°
110 - 110°
T2 - T2
T3 - T3
T4 - T4

Color Temp
WW - 2700K (Warm white)
SW - 3000K (Soft white)
NW - 4000K (Neutral white)
CW - 5000K (Cool white)
AM - Amber

Lens
TG - Clear glass
FG - Frosted glass

Mount Style
PD – Pendant mount (3/4" NPT)
TB1 - Trunnion bracket (3/4" NPT)
W90 - Wall mount 90°
W25 - Wall mount 25°
S90A - Stanchion-90° (1-1/4" NPT)
S90B - Stanchion-90° (1-1/2" NPT)
S25A - Stanchion-25° (1-1/4" NPT)
S25B - Stanchion-25° (1-1/2" NPT)
CJB - Ceiling Junction Box

Color
GR - Gray

Accessories
EMB - Emergency battery backup
WGS1 - Wire guard
SC1 - Safety cable
VS1 - Dark sky visor
SP10U - 10KV surge protector (100-277V) *Standard
SP20U - 20KV surge protector (100-277V)
PBC48 - Pipe Clamp (M8*48mm) for pole Ø1 7/8" (48mm)
PBC60 - Pipe Clamp (M8*60mm) for pole Ø 2 3/8" (60mm)
CAB - 3' SEOOW-18/3 Cord
CGL - Cable Gland 3/4" NPT

Mounting Options

PD (Standrad)
Pendant Mount
3/4" NPT
A356

TB1
Trunnion Bracket
3/4" NPT
A356

W90
Wall mount 90°
3/4" NPT
A356

W25
Wall mount 25°
3/4" NPT
A356

S90A
Stanchion mount 90°,
1-1/4"NPT

S90B
Stanchion mount 90°,
1-1/2"NPT

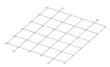
S25A
Stanchion mount 25°,
1-1/4"NPT

S25B
Stanchion mount 25°,
1-1/2"NPT

CJB
Junction Box
3/4"NPT

Accessories

TB1
Trunnion Bracket
3/4" NPT



WGS1
Stainless steel
wire guard

SC1
Stainless steel
safety cable
Ø 8 (4mm)

VS1
Stainless steel
dark sky visor

PBC48
Pipe Clamp (M8*48mm)
for pole Ø 1-7/8"

PBC60
Pipe Clamp (M8*60mm)
for pole Ø 2-3/8"

CAB
3' SEOOW-18/3 Cord
(Factory installed)
Applicable to C1D2

CGL
Cable Gland
3/4" NPT
Suitable for C1D2

SP10U
10KV Surge Protector
(100-277V) *Standard

SP20U
20KV Surge Protector
(100-277V)

PS
Pole Stanchion
2-3/8" (60mm)

GHSL-EMB-C1D1

Scout™ GHSL LED Explosion Proof Lighting

Important Information

This manual contains safety information, please read carefully and follow the instruction strictly.

WARNING: INSTALLATION & SECONDARY RETENTION

Improper installation and handling, including secondary safety retention/securing/netting, may cause severe injury or death. We recommend that all installations should use secondary retention and/or safety netting (appropriate to the installation environment) where applicable. It is the exclusive responsibility of the contractor, installer and/or end customer to: (a) determine the suitability of the product for its intended application; and, (b) ensure that the product is installed safely (with secondary retention and/or safety netting where appropriate) and in compliance with all applicable laws and regulations. To the extent permissible under the relevant law, we disclaims all responsibility for personal injury and/or other damage resulting from any dislodgement or other dislocation of this product.

WARNING

To avoid the risks of fire, explosion, or electric shock, this product should be installed, inspected, and maintained by a qualified electrician in accordance with all applicable electrical rules and regulations.

Safety Instructions:

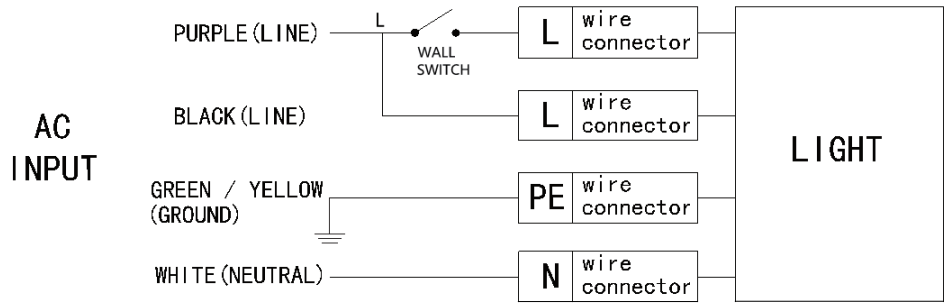
- Be certain, the electrical power is OFF before and during installation and maintenance.
- Make sure the supply voltage is the same as the rated luminaire voltage.
- The technical data indicated on the LED luminaires are to be observed.
- Any change on the design and modifications to the LED luminaire are not permitted.
- Observe the national/regional electrical safety rules and regulations during installation.
- LED beads are NOT replaceable. Replacement of whole set of light fixture is strongely recommended.
- All wiring connections should be capped with UL approved wire connectors.
- Luminaire MUST be well grounded.
- Any combustible materials MUST be kept away from the luminaire.
- Min 90°C supply conductors.
- Do not open the cover after installing the luminaire.

Maintenance:

1. To avoid personal injury, before maintaining, disconnect the light first, and then wait for the luminaire temperature dropping into the safe range.
2. All parts must be checked by mechanical means to ensure they are properly assembled.
3. The external glass should be cleaned regularly to ensure continued luminaire performance. Wipe the glass with a clean, wet, non-abrasive, and lint-free cloth. If this is not sufficient, use mild soap or liquid cleaner. Do NOT use an abrasive, strong alkaline or acid detergent which might damage the luminaire.
4. Check the cooling fins of the luminaire and remove the dust or other sorts of things which accumulated on the luminaire.
5. Visual, electrical and mechanical inspections on the luminaire should be on a regular basis. We highly suggest that this routine inspection should be done at least once a year. The environment condition, where the luminaire installed, determines the frequency of inspection.
6. All electric connections MUST be checked and ensured that they are clean and firm.

Electrical Connections:

WARNING:
Cut off the electric power supply from the circuit breaker or the fuse before wiring luminaire to the circuit.
The connections are marked on the terminal block or on a label and are presented figure below.



Installation & Operations:

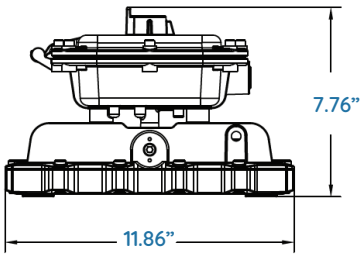
1. Loosen the M6 Socket head cap screws on the Driver Cover.
2. Attach the Driver Housing to the 3/4" NPT conduit.
3. Thread the wire through conduit, and connect to the terminal.
4. Connect the wires to the branch circuit. (If series connection is needed.)
5. Re-attach the Driver cover and tight it by M6 Socket head cap screws with torque value 7 N-m.
6. Check the tightness of conduit and Driver Housing.

Install the Remote Test Switch in Ordinary or Non-Hazardous Location:

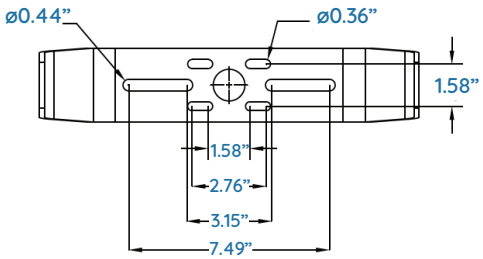
This luminaire has provision to install a remote mounted test switch for the battery.
The remote test switch shall comply with the following:

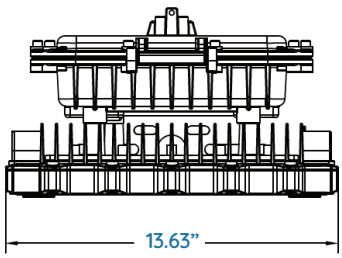
1. The remote test switch shall be certified for the area where it is to be installed (ordinary or non hazardous locations).
2. The remote test switch shall be a manually operated type.
3. The remote test switch shall be of:
    a. Operated type and of momentary-contact type ,or
    b. Maintained-break type that opens all ungrounded conductors and be accessible to authorized person.
4. The remote test switch shall be installed using acceptable wiring methods for the areas involved in accordance with the NEC.
5. The remote test switch shall be identified as to its function (i.e. – marked "Emergency Luminaire Test Switch").
6. When the remote test switch is installed, it has be connected such that when it is depressed it provides a transfer function, disconnects and isolates the normal input from the emergency input.

Technical Diagrams:

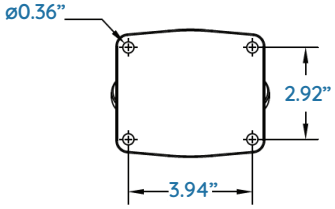


U-bracket

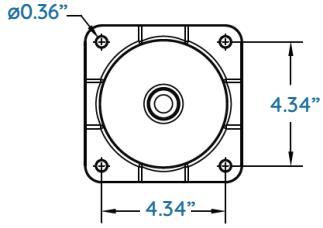




Slip Fitter (Wall)

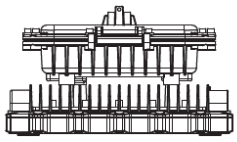


Slip Fitter (Ceiling)

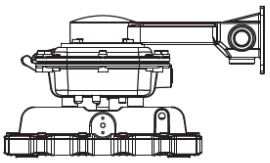


Installation:

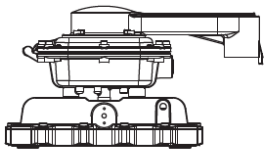
Pendant



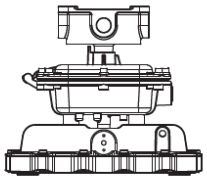
Wall 90°



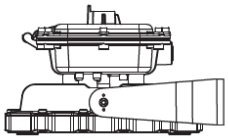
Stanchion 90°



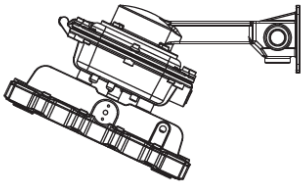
Ceiling



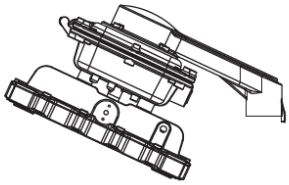
U-Bracket



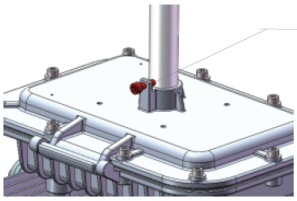
Wall 25°



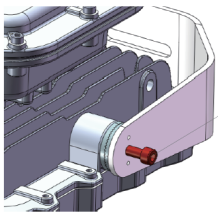
Stanchion 25°



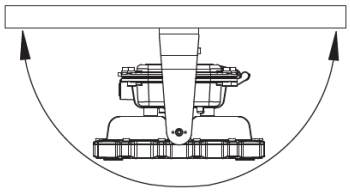
Pendant:
Fix the light with screws after installation and wiring. Torque: 7 N-m.

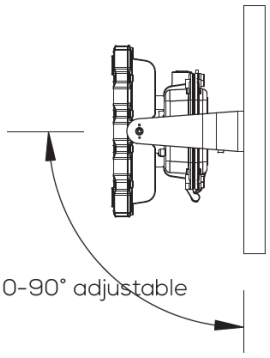


U-bracket:
Once mounted, the angle of the luminaire can be adjusted by loosening the M8 socket head cap screw on each side of the bracket. When loosening, do not back bolt out more than 5 full rotations. When the desired angle has been achieved, the bolts can be tightened to lock in the angle. Torque: 20 N-m.



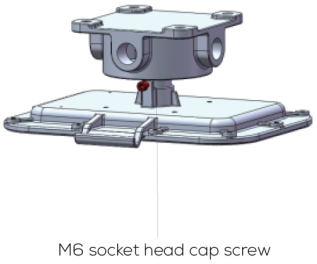
Installation diagram :

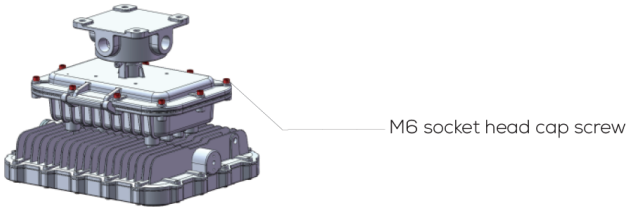




The statement for Class II only:
"Mounting Orientation – Lens Facing Down 0°~90° From Vertical Only"

Slip Fitter (Ceiling):
1. Fix Slip Fitter (Ceiling) to Driver Cover.
2. Then tighten the screw. Torque: 7 N-m.
3. Mount the luminaire.
4. Connect wires to the terminal block.
5. Re-attach the Driver cover and tight it by M6 Socket head cap screws with torque value 7 N-m.





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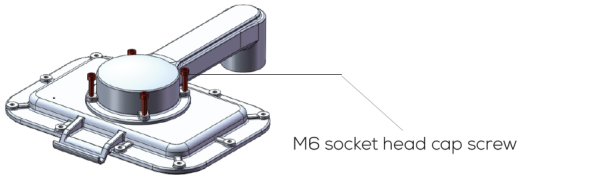

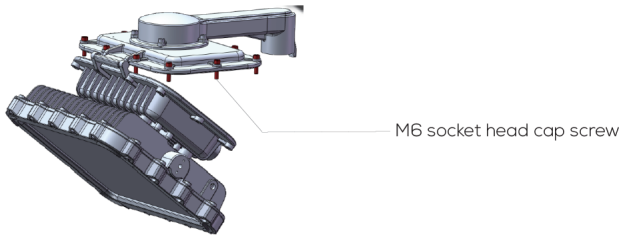

Models:

Models GHSL; followed by E; followed by -32, –24, -16 or -13;followed by U or N

Models	Power	Rated voltage	Ambient Temp(Emergency)
GHSL-32-U	200W	100-277V	0°(32°F)~+50°C(122°F)
GHSL-24-U	150W	100-277V	
GHSL-16-U	100W	100-277V	
GHSL-13-U	80W	100-277V	

GHSL-EMB-C1D2

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- Observe the national/regional electrical safety rules and regulations during installation.
- LED beads are NOT replaceable. Replacement of whole set of light fixture is strongely recommended.
- All wiring connections should be capped with UL approved wire connectors.
- Luminaire MUST be well grounded.
- Any combustible materials MUST be kept away from the luminaire.
- Min 90°C supply conductors.
- Do not open the cover after installing the luminaire.

Maintenance:

1. To avoid personal injury, before maintaining, disconnect the light first, and then wait for the luminaire temperature dropping into the safe range.
2. All parts must be checked by mechanical means to ensure they are properly assembled.
3. The external glass should be cleaned regularly to ensure continued luminaire performance. Wipe the glass with a clean, wet, non-abrasive, and lint-free cloth. If this is not sufficient, use mild soap or liquid cleaner. Do NOT use an abrasive, strong alkaline or acid detergent which might damage the luminaire.
4. Check the cooling fins of the luminaire and remove the dust or other sorts of things which accumulated on the luminaire.
5. Visual, electrical and mechanical inspections on the luminaire should be on a regular basis. We highly suggest that this routine inspection should be done at least once a year. The environment condition, where the luminaire installed, determines the frequency of inspection.
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Electrical Connections:

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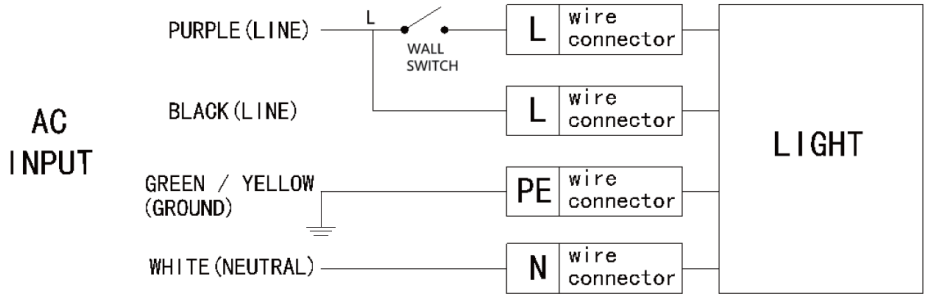
Cut off the electric power supply from the circuit breaker or the fuse before wiring luminaire to the circuit.
The connections are marked on the terminal block or on a label and are presented figure below.



Installation & Operations:

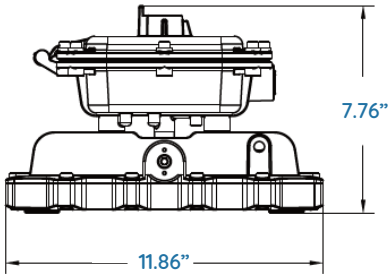
1. Loosen the M6 Socket head cap screws on the Driver Cover.
2. Attach the Driver Housing to the 3/4" NPT conduit.
3. Thread the wire through conduit, and connect to the terminal.
4. Connect the wires to the branch circuit. (If series connection is needed.)
5. Re-attach the Driver cover and tight it by M6 Socket head cap screws with torque value 7 N-m.
6. Check the tightness of conduit and Driver Housing.

Installing the Remote Test Switch in Ordinary or Non-Hazardous Location:

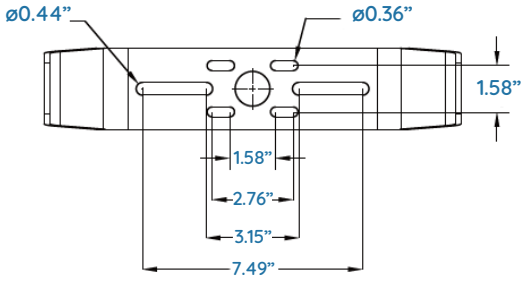
This luminaire has provision to install a remote mounted test switch for the battery.
The remote test switch shall comply with the following:

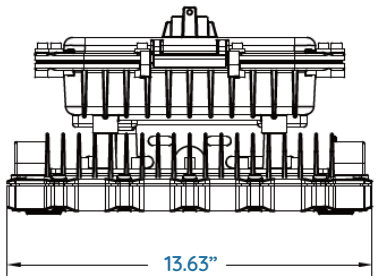
1. The remote test switch shall be certified for the area where it is to be installed (ordinary or non hazardous locations).
2. The remote test switch shall be a manually operated type.
3. The remote test switch shall be of :
    a. Operated type and of momentary-contact type ,or
    b. Maintained-break type that opens all ungrounded conductors and be accessible to authorized person.
4. The remote test switch shall be installed using acceptable wiring methods for the areas involved in accordance with the NEC.
5. The remote test switch shall be identified as to its function
    (i.e. – marked"Emergency Luminaire Test Switch").
6. When the remote test switch is installed, it has be connected such that when it is depressed it provides a transfer function, disconnects and isolates the normal input from the emergency input.

Technical Diagrams:

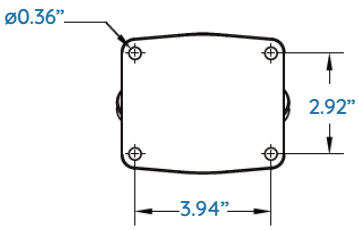


U-bracket

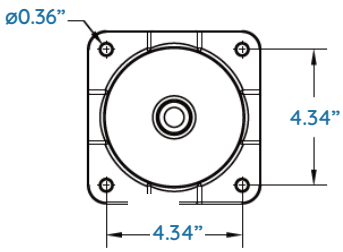




Slip Fitter (Wall)

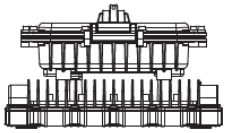


Slip Fitter (Ceiling)

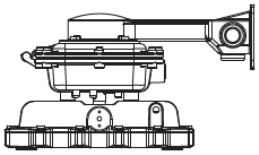


Installation:

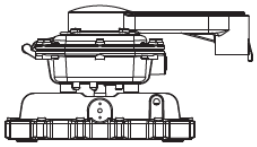
Pendant



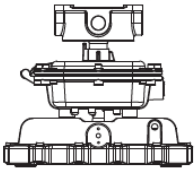
Wall 90°



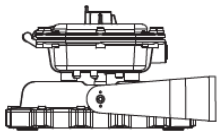
Stanchion 90°



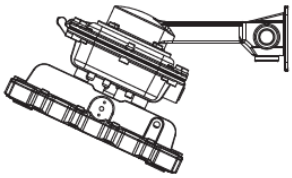
Ceiling



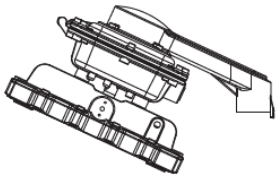
U-Bracket



Wall 25°

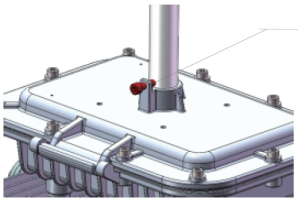


Stanchion 25°

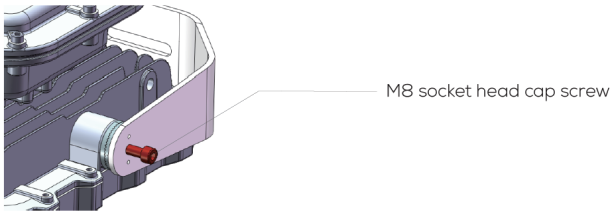


*Slip Fitter (Wall/Stanchion/Ceiling) Is not suitable for Class 1 Div 1

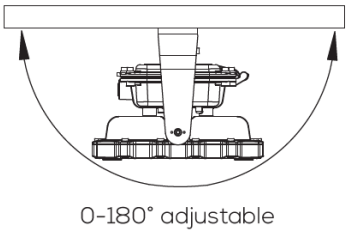
Pendant:
Fix the light with screws after installation and wiring. Torque: 7 N-m.

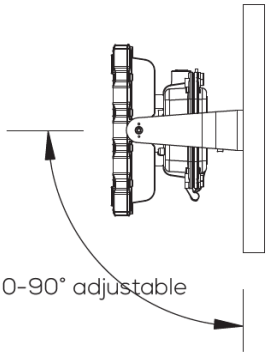


U-bracket:
Once mounted, the angle of the luminaire can be adjusted by loosening the M8 socket head cap screw on each side of the bracket. When loosening, do not back bolt out more than 5 full rotations. When the desired angle has been achieved, the bolts can be tightened to lock in the angle. Torque: 20 N-m.



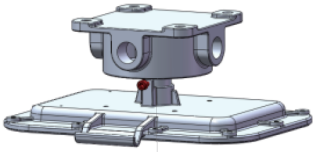
Installation diagram :

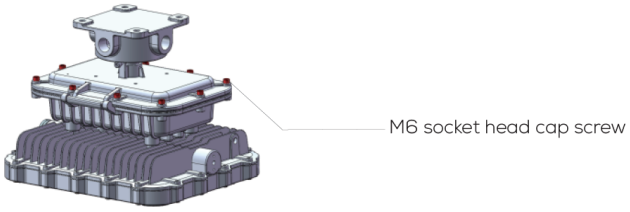




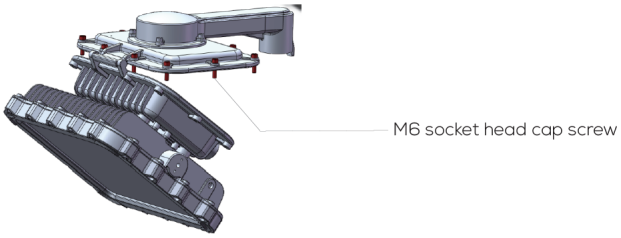
The statement for Class II only:
"Mounting Orientation – Lens Facing Down 0°~90° From Vertical Only"

Slip Fitter (Ceiling):
1. Fix Slip Fitter (Ceiling) to Driver Cover.
2. Then tighten the screw. Torque: 7 N-m.
3. Mount the luminaire.
4. Connect wires to the terminal block.
5. Re-attach the Driver cover and tight it by M6 Socket head cap screws with torque value 7 N-m.





Slip Fitter (Ceiling):
1. Fix Slip Fitter to Driver Cover.
2. Then tighten the screw. Torque: 7 N-m.
3. Mount the luminaire.
4. Connect wires to the terminal block.
5. Re-attach the Driver cover and tight it by M6 Socket head cap screws with torque value 7 N-m.



Models:

Models GHSL; followed by E; followed by -32, -24, -16 or -13;followed by U or N

Models	Power	Rated voltage	Ambient Temp(Emergency)
GHSL-32-U	200W	100-277V	0°(32°F)~+50°C(122°F)
GHSL-24-U	150W	100-277V	
GHSL-16-U	100W	100-277V	
GHSL-13-U	80W	100-277V	