



Lumiglas Explosion-Proof Light Model USL 08-EX UL 844 Listed Class I, Div. 1&2, Groups C&D For fitting to sight/light ports and specific area lighting Approved for wet conditions (UL 1571)

Application

This compact, powerful light can be used for integral light/sight port (single port version) or separate light and sight port (dual port version) and also to illuminate the internals of visual flow indicators, pipelines, laboratory mixers and other vessels and reactors which are normally closed.

The USL 08-EX is excellent for specific area lighting such as instruments, control panels, valve manifolds, walkways, etc. These sturdy lights are constructed of corrosion-resistant aluminum alloy and are moisture-proof as well as explosion-proof (hazardous locations) so they are equally well suited for use in demanding installations indoors and out. Both spot and flood lamp configurations are available for particular applications.

Sight Glass Styles

This light is designed to give glare-free illumination in combination with the following sight glass styles:

- bolt-on circular flanges
- circular weld pad
- visual flow indicators (standard or full-view)
- sanitary clamp connection larger than 3"
- circular threaded assemblies (type MV) larger than 4"
- specific area lighting

Protection

UL 844 listed for Class I, Div 1 & 2, Groups C&D.
Approved for wet conditions, UL 1571

Temperature Operating Conditions

Temperature range (operating temperature) is referenced to 40°C ambient.

Lamp

Medium base 35W Spot, 35W Flood, 50W Spot & 50W Flood with built-in reflector, or 100W Spot halogen lamp with bayonet base and separate reflector. See Table 1 for part number.

Lamp Socket

E26 screwed and BA 15d Bayonet depending on wattage.

Mounting Brackets

Straight mounting brackets are for use on single sight ports from 3" to 6". Angle (offset) brackets are available for 6" and larger for single light/sight port combinations. Brackets are adaptable to various types of mounting configurations for area lighting.

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Lumiglas USL 08-EX with mounting brackets



Lumiglas USL 08-EX installed on a circular sight port DIN 28120



USL 08-EX Installation Instructions

General (See detailed instruction manual)

The light is usually bolted by twin brackets to the sight glass assembly, i.e. to the cover flange of a bolted circular sight glass, the cover nut of a circular threaded assembly (type MV), Visual flow indicator (3" and larger), or mounted for area illumination. The Lumiglas USL 08-EX can be used for the following sight glass sizes and larger:

- bolted circular flanges, 3"
- circular threaded assemblies, 4"
- visual flow indicators, 3"

Electrical Connection Installation

1. Disconnect main power supply
2. Remove side entrance cover
3. Attach power leads to terminal block
4. Replace cover insuring gasket (o-ring) is in place. Tighten.
5. Connect power

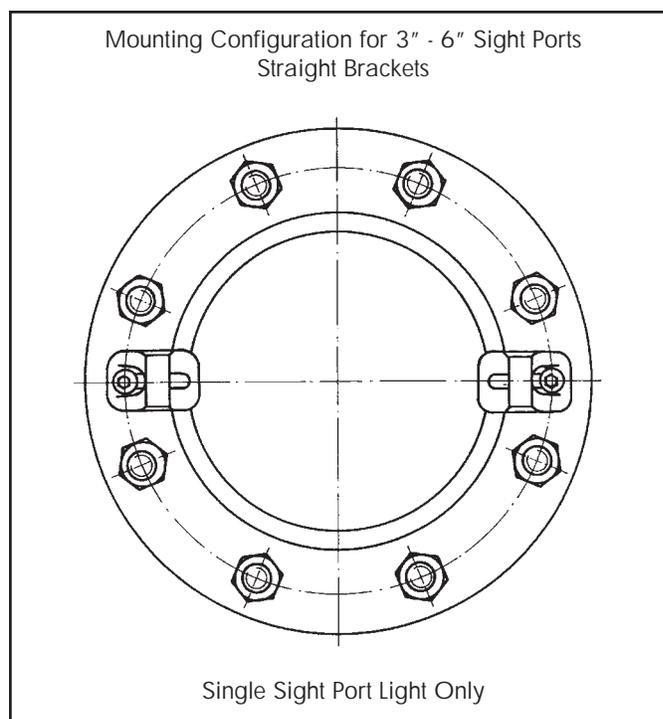
Connections to be in accordance with National Electric Code® Requirements

Lamp Replacement

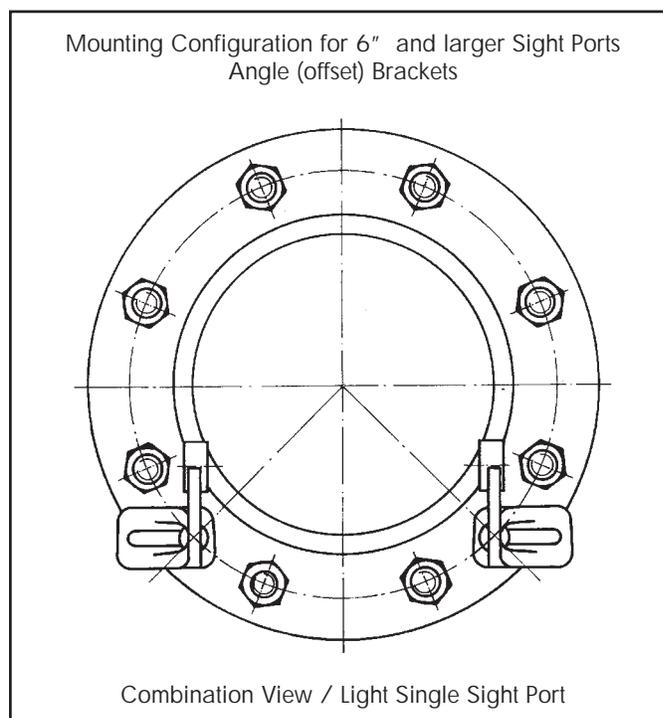
1. Switch off the light and disconnect power
2. Remove top cover
3. Loosen socket bracket. Removal of the screw is not necessary
4. Remove lamp socket bracket assembly
5. Replace bulb. Use only approved bulb (table 1)
6. Replace lamp socket bracket assembly
7. Tighten bracket screw
8. Reinstall top cover insuring cover gasket (o-ring) is in place. Tighten.
9. Connect power supply

Parts, Construction and Materials:

- Luminaire body: Corrosion resistant die cast aluminum, G-Al Si 10 Mg
- Lens Holder: Unit of aluminum ring, glass
- Brackets: Die cast Aluminum, G-Al Si 10 Mg
- Weight: 7 lb. (3.2 Kg)
- Gaskets: Silicone rubber o-rings

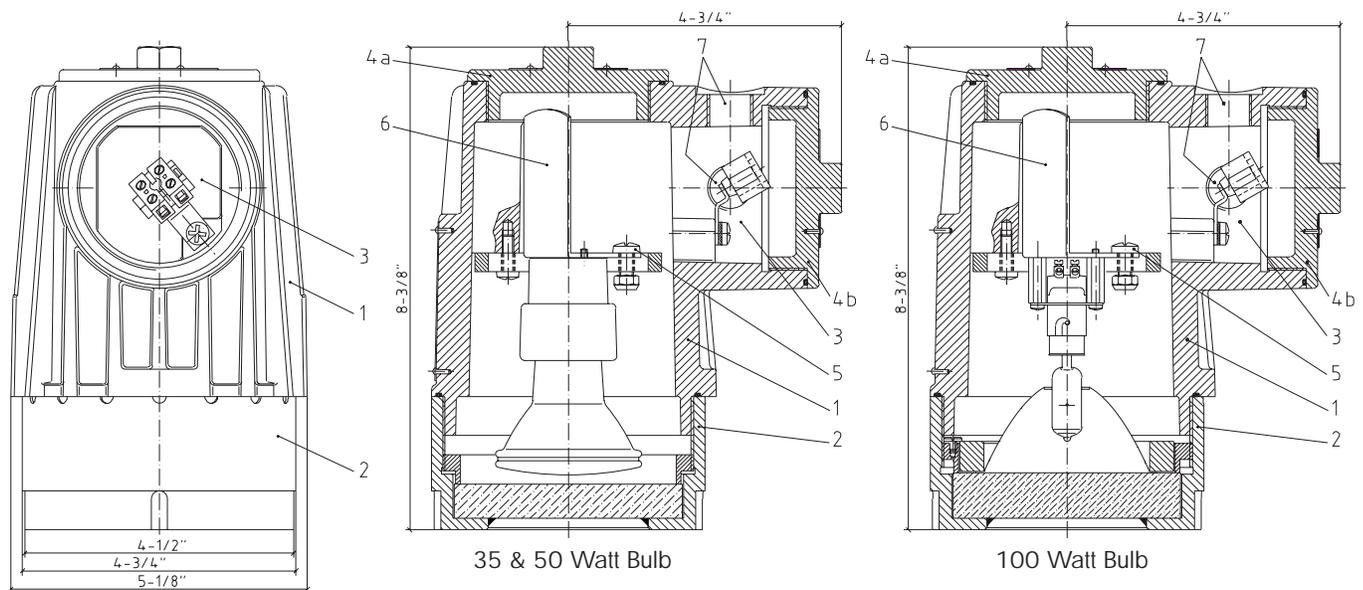


Lumiglas USL 08-EX light port installation on hinged bracket (straight). Suitable for 3" - 6" sizes. Separate view port must be used.



Lumiglas USL 08-EX installation on a combined light/sight port.

Dimensions and Connection Data for USL 08-EX



- 1) cast body
- 2) lens assembly
- 3) terminal block
- 4a) access cover
- 4b) terminal cover
- 5) light socket bracket screw
- 6) light socket bracket
- 7) 1/2" NPT connections (3 positions)

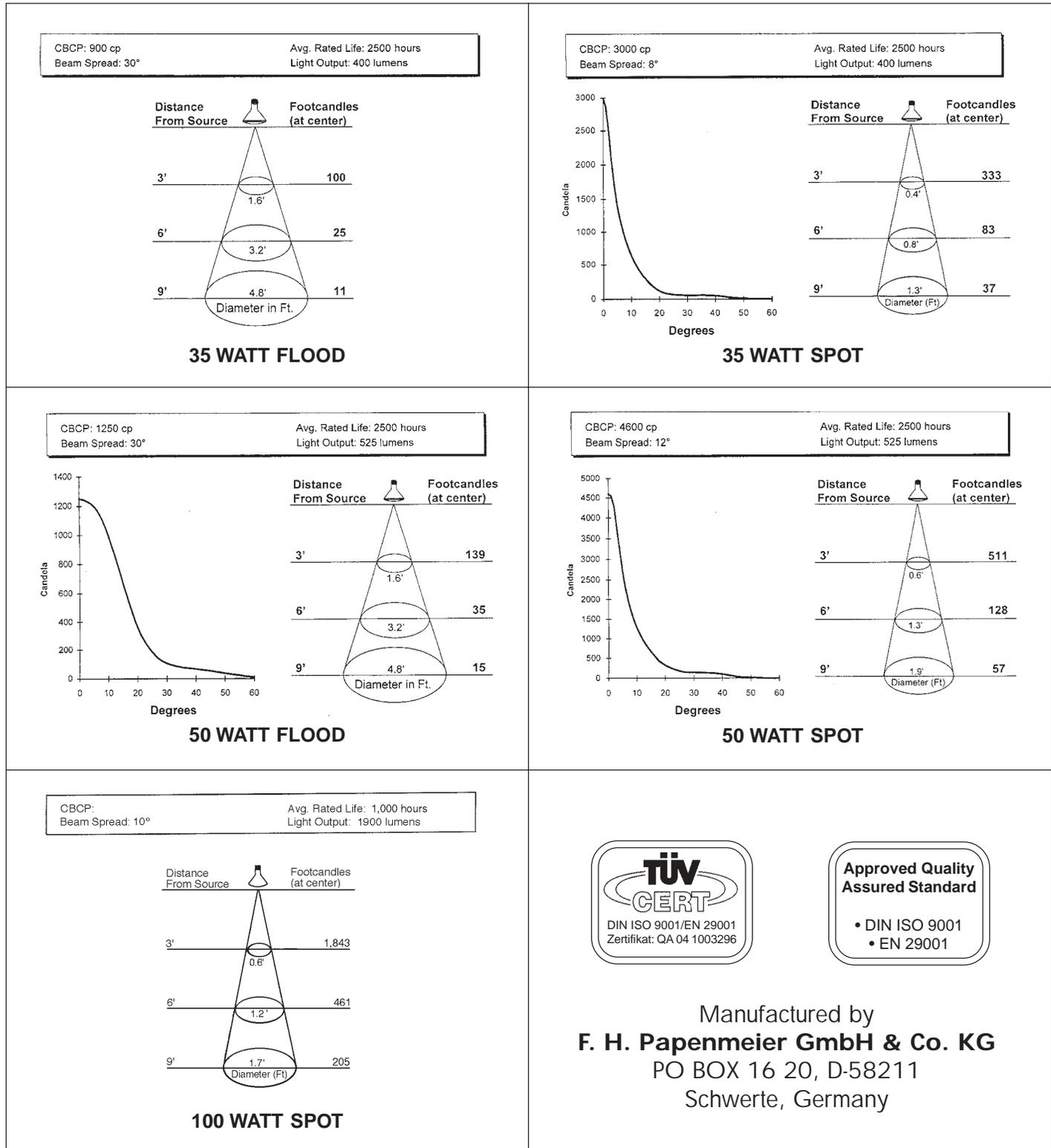
Weight 7 lbs. (3.2 Kg)

TABLE 1

	USL 08-EX	Part No. Complete Unit	Volts	Socket	Power Req.	Part No. Bulb	Temperature Class for max. Ambient Temp. 40° C
1	(120 V) Spot 35 W	EX08-N35 S	120	E26	120 V/35 W	BLB N35 E26S	T4A
2	(120 V) Flood 35 W	EX08-N35 F	120	E26	120 V/35 W	BLB N35 E26F	T4A
3	(120 V) Spot 50 W	EX08-N50 S	120	E26	120 V/50 W	BLB N50 E26S	T3B
4	(120 V) Flood 50 W	EX08-N50 F	120	E26	120 V/50 W	BLB N50 E26F	T3B
5	(120 V) Spot 100 W	USL08-EX-100W-B	120	BA 15d	120 V/100 W	BLB N100 BA15D	T3B

Mounting Brackets (Aluminum)
 Straight - Part # BRK EX08 S
 Angle - Part # BRK EX08 A
 Mounting Bracket and bulb type must be specified when ordering.

Approximate Light Distributions



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