5+ YEAR LIFE

HIGH INTENSITY UNIFORM WHITE LIGHT OUTPUT, MAINTENANCE FREE!

CANTY

PROCESS TECHNOLOGY

HYL 80-LED Nickel Plated Process Lighting Systems



HOW IT WORKS

The HYL 80 lights are designed to illuminate pressurized, irradiated or isolated areas. The HYL lighting package provides a compact, cost effective lighting system. Our patented design allows for an intense beam of light to cross the pressure/process boundary. Once across, the beam is diffused to provide a conical light output of bright, even illumination. The HYL light can mate with a variety of couplings, including flanged, sanitary and NPT connections.

UNIQUE DESIGN

Our patented design consists of three main components: light source, light pipe and driver. A high output, long-life LED array delivers the maximum amount of light into the vessel. Light is guided fiber-optically through the light pipe into the process or pressure area. All Canty light pipes feature our high pressure, high temperature fused glass seal for maximum safety. A variety of couplings are available.

APPLICATIONS

- Process Vessels and Equipment
- Pressure Vessels
- Sterilizers
- Diving Decompression Chambers
- Altitude and Environmental Chambers
- Many, many more

SPECIFICATIONS

Light Pipe Pressure: Full Vacuum to 10,000 PSI

available. Consult factory.

Mounting: 1" NPT, flanged and sani-

tary models available.

• Light Source Rating: WP, IP 66, EXP and FP

available.

• Power Req.: 16-20W

• Typ. Max Tank 25 ft [7.6m] dia. X 70 ft

Specification; 80 W: [21.3m] dp

Power Supply
 24V - 230V input options

Options: available.

FEATURES

- Pressure rating from full vacuum to 10,000 PSI available. Consult factory.
- Brighter than former 80W Halogen lights.
- Low power consumption, 16-20W.
- NEMA 4, IP 66 ratings available.
- Explosion proof Class I, Div. 1, Groups B, C and D, Class II, Div. 1, Groups E, F and G, and NEMA 4 models.
- Flame proof Ex II 2 GD, Eex d IIC T6 and IP 66 models.
- Maintenance-free, high output LED.
- All wiring and maintenance external.



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Typical Dimensions 1/2" NPT Ø5.5" TYP. WIRE INLET, TYP. [140mm] 8.7" TYP. [221mm] TRI-CLAMP® **FLANGE**

HOW TO ORDER: Select the appropriate symbols and build a part number as shown:

HL UD85S0-LED **EXAMPLE:**

Light Source Selection

120V / 230V Options:

HL - 120V AC input direct to light. EXP rating, .25A

EK - 230V AC input direct to light. ATEX FP rating, .25A

NH - 120V AC input direct to light. WP rating, .25A

N1 - 230V AC input direct to light. IP rating, .25A

24V DC Options:

N6 - 24V DC, EXP rated light, 1A

N2 - 24V DC, ATEX FP rated light, 1A

N8 - 24V DC, WP rated light, 1A

N9 - 24V DC, IP rated light, 1A

Switches

Weather Proof Light Options

(NH/NI) 120V / 230V Models

U - Customer supplies ON/OFF switch.

C - NEMA 4X / IP66 enclosure with switch. 120V AC input.

R - NEMA 4X / IP66 enclosure with switch. 230V AC input.

(N8/N9) 24V DC Models:

U - Customer supplies ON/OFF switch.

Explosion Proof / ATEX Flame Proof Light Options (HL/EK) 120V / 230V Models:

U - Customer supplies ON/OFF switch.

P - Explosion proof switch, 120V AC (HL) / or ATEX Switch, 230V AC (EK). See note 5.

(N6/N2) 24V DC Models:

U - Customer supplies ON/OFF switch

Wetted Materials

S - 316L SS*

D - Hastelloy® C276 or equal

E - Hastelloy® C-22® or equal

F - Boroplus (Glass Wetted)**

U - Hastelloy® C276 or equal, 20 RA EP

*Canty Reserves the right to upgrade to Hastelloy® C-family of alloys or equal at their own cost.

**Not available on all models.

Beam Output Options

8 - Normal Beam High Temp

Insertion Length*

0 - None 5 - 5" INSB - 11" INS 1 - 2" INS6 - 7" INSC - 12" INS

2 - 6" INS7 - 8" INSD - 13" INS

3 - 3" INS8 - 9" INSE - 14" INS

4 - 4" INSA - 10" INS

*Insertions Are Not Available on Glass Wetted Models

Non-Wetted Material (Carbon or Stainless Steel)

D - CS, 300# ANSI C - CS, 150#ANSI S - SS, 150#ANSI E - SS, 300# ANSI

A - CS, 10 BAR Z - CS, 16 BAR B - SS. 10 BAR Y - SS, 16 BAR

0 - No Retaining Flange Required/Applicable.

Select for Tri-Clamp® Connections.

Mounting Connection

1 - 1" NPT

9 - 1.5" Flanged, 150# /DN40 PN10

3 - 2" Flanged, 150# /DN50 PN10

4 - 3" Flanged, 150# /DN80 PN10 5 - 4" Flanged, 150# /DN100 PN10

6 - 6" Flanged, 150# /DN150 PN10 (Insertion only)

Z - 1.5" Flanged, 300# /DN40 PN16

A - 2" Flanged, 300# /DN50 PN16 B - 3" Flanged, 300# /DN80 PN16

C - 4" Flanged, 300# /DN100 PN16

D - 6" Flanged, 300# /DN150 PN16 (Insertion only)

E - 1" or 1.5" Tri-Clamp®

F - 2" Tri-Clamp®

Y - 2.5" Tri-Clamp®

G - 3" Tri-Clamp®

H - 4" Tri-Clamp®

J - 2" 150#/ DN50 PN10 Glass Wetted Flange

K - 3" 150#/ DN80 PN10 Glass Wetted Flange L - 4" 150#/ DN100 PN10 Glass Wetted Flange

M - 6" 150#/ DN150 PN10 Glass Wetted Flange

Many Additional Sizes Available. Consult Factory.

WP = Weather Proof EXP = Explosion Proof FP = Flame Proof IP = Ingress Protectio

Some options are not available on all models

2) Vessel lighting diameter, depth specifications provided are a general guideline for stainless steel tanks. For blue glass lined reactors, which will absorb

visible wavelengths of light, a derating factor of 0.7 is recommended.

3) All Explosion Proof lights are rated for use in Class I, Div. 1, Groups B, C and D, Class II, Div. 1, Groups E, F & G as well as NEMA 4 locations. Power supply rating vary with All ATEX Flame Proof lights are approved for use in EExd II C T6 and IP 66 locations. 5) Explosion proof power supply enclosures are rated use in Class I, Div. 1, Groups C and D, Class II, Div. 1, Groups E, F & G locations. Flame proof switch is EEx edm IIC T6.



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