**AREA LIGHTING**

# Hazlux® AH1 LED Series

Explosion-proof, shock and vibration resistant lighting fixture, designed for use in marine and wet locations, and a variety of hazardous areas.

## CERTIFICATION

**CLASS I**

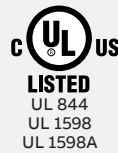| | |
|---|---|
| Division 1 | Group B, C, D |
| Division 2 | Group A, B, C, D |

**CLASS II**

| | |
|---|---|
| Division 1 | Group E, F, G |
| Division 2 | Group E, F, G |

**CLASS III**

Classification may vary depending on the product configuration. Please follow catalogue information and exceptions.

## APPROVALS

MARINE UL LISTED
E76966

C UL US LISTED
UL 844
UL 1598
UL 1598A

IK 08

IP — IP66/67

## APPLICATIONS

| |
|---|
| Power plants |
| Paper mills |
| Paint spray booth |
| Wastewater treatment plants |
| Chemical processing |
| Petrochemical |



**Life expectancy: 130,000 Hours**

**Certified for use in marine locations**

**Corrosion resistant copper free aluminum housing**

**IP66/67 rated fixture**

**Available with clear or frosted tempered glass lens**

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## Hazlux® AH1 LED Series
Key features and information

| FEATURES |
|---|
| Temperature range 40W and 50W models: -40°F to 149°F (-40°C to 65°C) |
| Temperature range 60W model: -40°F to 147°F (-40°C to 64°C) |
| Exposed hardware made of stainless steel |

| HOUSING |
|---|
| Housing made of copper-free aluminum |
| Anti-corrosion housing (tested for 1000hrs) |
| Tempered glass lens is impact and thermal shock resistant |
| Lens tested to IK08 |
| High temperature silicone gasketing |
| Available with multiple distribution patterns |

| LED |
|---|
| Efficacy: up to 150 Lm/W |
| Lumen output: From 6,499 Lumens to 8,514 Lumens |
| Nichia LED's |
| CRI Ra>75 |
| Correlated Color Temperature (CCT): 5000K (standard), 3000K and 4000K (optional) |

| ELECTRICAL |
|---|
| Operating voltage: 120Vac-277Vac : 40W and 60W |
| Operating voltage: 347Vac-480Vac: 50W |
| Frequency: 50/60Hz |
| Power factor .95 |
| Driver efficiency 90% |
| THD <20% |
| Surge protection standard at 4KV. Contact your sales representative if higher protection is required. |

| MOUNTING |
|---|
| Pendant mount |
| Optional yoke/pipe bracket for wall/ceiling or pole mount |

| APPROVALS |
|---|
| UL 844 |
| UL 8750 LED safety |
| UL 1598 Wet Locations |
| UL 1598A Marine |
| CUL approved to CSA 22.2 No. 137, CSA 22.2 No. 250.0-08, CSA 22.2 No. 250.13 |
| IP66/67 |
| IK08 |
| 5G (shock and vibration resistant) |
| 1000hrs salt spray |

| WARRANTY |
|---|
| 5 year limited warranty |

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## T-code chart

| Fixture | 40 watt | 50 watt | 60 watt |
|---|---|---|---|
| C1D1 | T6 | T6 | T6 |
| C1D2 | T4 | T4A | T4 |
| CIID2 | T6 | T6 | T5 |

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## Electrical specifications

| Specification | | AH1-40 | AH1-50 | AH1-60 |
|---|---|---|---|---|
| Rated power | | 40W | 50W | 60W |
| Input voltage | | AC120-277V | AC347-480V | AC120-277V |
| Input frequency | | 50/60Hz | 50/60Hz | 50/60Hz |
| Input current | AC120/277V | 0.34/0.16A | N.A | 0.48/0.215A |
| | AC347/480V | N.A | 0.15/0.1A | N.A |
| Power factor | | ≥0.95 | | |

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## Lighting output

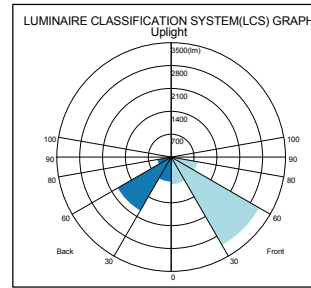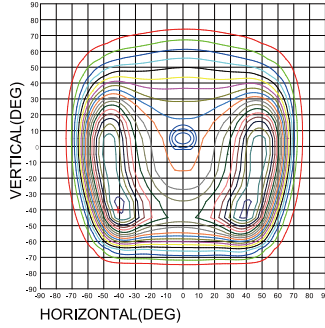| Fixture | 40 watt | 50 watt | 60 watt |
|---|---|---|---|
| Lumen output | 6499 | 7179 | 8514 |
| Lumen per watt | 160 | 140 | 140 |

## Hazlux® AH1 LED Series

### PHOTOMETRY

**Type III**
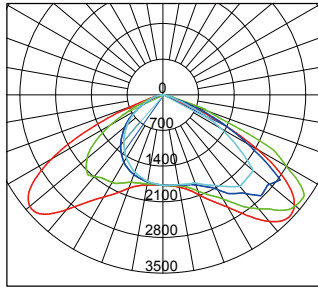


- C0/180,134.6
- C30/210,133.3
- C60/240,98.3
- C90/270,102.0

VERTICAL(DEG)

HORIZONTAL(DEG)

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH
Uplight

3500(lm)
2800
2100
1400
700

Back    Front

BUG (Back, Up, Glare) Rating:  B2-U0-G1

**Type V**
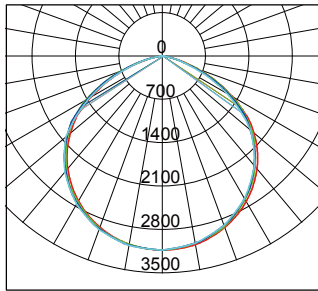


- C0/180,112.5
- C30/210,113.7
- C60/240,112.9
- C90/270,111.4

VERTICAL(DEG)

HORIZONTAL(DEG)

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH
Uplight

2500(lm)
2000
1500
1000
500

Back    Front
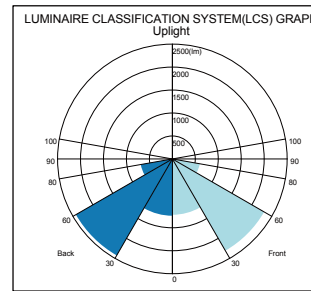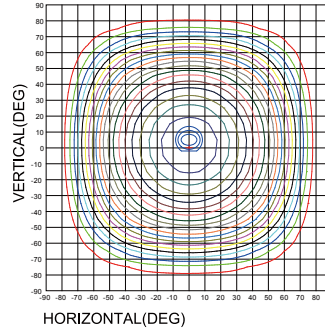
BUG (Back, Up, Glare) Rating:  B3-U0-G1

### MOUNTING AND OPTIONAL ACCESSORIES (sold separately)

**Pendant Mount**
(Included standard)

**Yoke/Pipe Bracket**
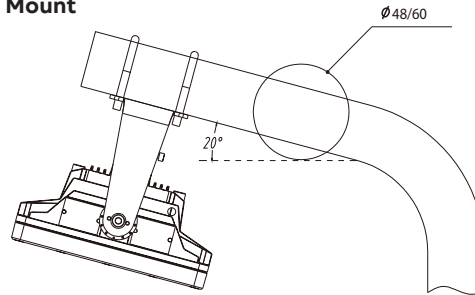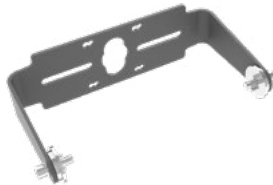(Optional accessory)

**Pole Mount**

Ø 48/60

20°



**PB02 - Yoke/Pipe Bracket
(SUS 304) Stainless steel**
(Optional accessory)

**PC01 - Pipe clamp (1 pair)**
(Optional accessory)

**PC02 - Pipe clamp (1 pair)**
(Optional accessory)

**WG04 - Stainless steel
wire guard**
(Optional accessory)



PC01 = Pipe clamp (M8*48mm) for pole Ø
1-7/8" (48 mm)

PC02 = Pipe clamp (M8*60mm) for pole Ø
2-3/8" (60 mm)
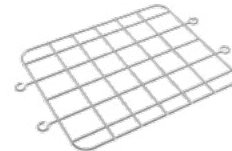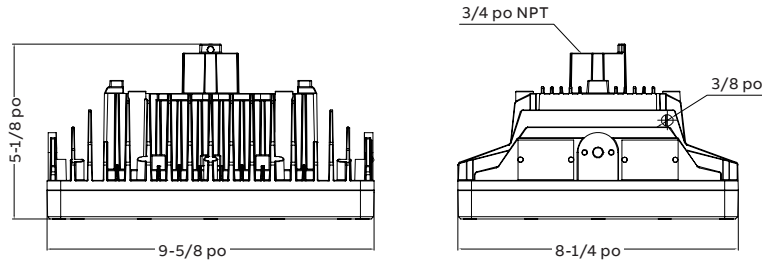
Note: Wall mount bracket required for Pipe installation.

# Hazlux® AH1 LED Series

**DIMENSIONS**                                          Dimensions are approximate and subject to change.



| Model | Net weight C1D1 (Glass) | Product dimensions |
|-------|-------------------------|--------------------|
| AH1-40 | 4.9kg/10.8lbs | |
| AH1-50 | 5.3kg/11.7lbs | 245x210x129mm<br>9.7x8.3x5.1in |
| AH1-60 | 5.3kg/11.7lbs | |

**NUMBERING SYSTEM**

## Lighting fixture

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|----|
| **AH1** | **4** | **1** | **K3** | **R3** | **1** | **TG** | **P** | **G** | **U** |
| Fixture series | Wattage | Voltage | Color temp | Diffuser type | Hazloc | Lens | Mounting type | Color of enclosure | Market |
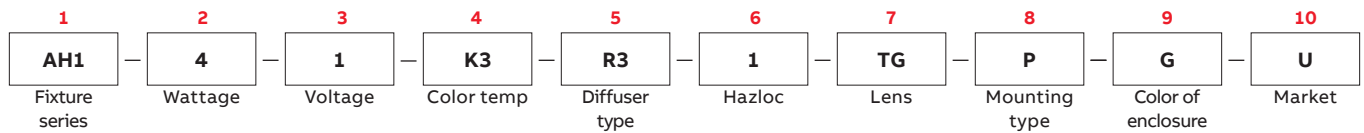
## Ordering information

| Part | Part number | Description |
|------|-------------|-------------|
| **1** Fixture series | AH1 | Hazlux LED Class I Div 1 |
| **2** Wattage | 4 | 40 watts |
| | 5 | 50 watts |
| | 6 | 60 watts |
| **3** Voltage | 1 | 120-277V (40W and 60W only) |
| | 4 | 347-480V (50W only) |
| **4** Color temp | K3 | 3000K[1] |
| | K4 | 4000K[1] |
| | K5 | 5000K |
| **5** Diffuser type | R3 | Type 3 Diffuser[1] |
| | R5 | 110° (no diffuser) |
| **6** Hazloc | 1 | C1D1 |
| **7** Lens | TG | Clear glass |
| | FG | Frosted glass[1] |
| **8** Mounting type | P | NPT 3/4 pendant mount |
| | U | NPT 3/4 pendant mount + Yoke bracket |
| **9** Color of enclosure | G | Gray |
| **10** Market | U | U.S. market |
| | Blank | Canadian market |

[1]Longer lead time, contact your sales representative for more details.

## Accessories (sold separately)

| | |
|---|---|
| PC01 | Pipe clamp (1 pair)<br>Pipe clamp (M8*48mm) for pole Ø 1-7/8" (48mm) |
| PC02 | Pipe clamp (1 pair)<br>Pipe clamp (M8*60mm) for pole Ø 2-3/8" (60mm) |
| PB02 | Yoke/Pipe Bracket (SUS 304) Stainless steel |
| WG04 | Stainless steel wire guard |

**Note:** For Canadian market, please add "-CA" to the part no. (ex: PC01-CA).