

|                |      |
|----------------|------|
| Catalog Number |      |
| Notes          | Type |

## HXPL Series

### Hazardous Area Lighting Fixtures



#### Description

- Versatile heavy-duty, explosion-proof LED fixture designed for hazardous environments where flammable gases or vapors, flammable liquids, combustible dust and/or ignitable fibers may exist.
- Also suitable for indoor and outdoor areas where corrosive chemicals exist.
- Certain airborne contaminants may adversely affect the functioning of LEDs and other electronic components, depending on various factors such as concentrations of the contaminants, ventilation, and temperature at the end-user location. [Click here for a list of substances that may not be suitable for interaction with LEDs and other electronic components.](#)

#### Optics

- Explosion-proof, impact and heat resistant glass tubes, provide LED protection.
- Optional wire guard and/or clear polycarbonate shield available for additional security.
- Heavy gauge extruded aluminum reflectors (2.5 millimeters thick), with high gloss reflective finish. Resists dents and corrosion. Easy, quick removal for cleaning.
- 84CRI is standard.

#### Electrical

- 0-10V dimming driver is standard, dims to 10%.
- Driver has 1.5kV surge protection, for additional surge protection against power line transient surges, installer will need to provide remote surge protection.

#### Mechanical

- Factory sealed.
- Fixture constructed of corrosion-resistant, copper-free aluminum alloy (less than 0.4% copper).
- Over-sized, finned driver housing provides greater heat dissipation and extended driver life.
- Maintenance can be done quickly from either end of the fixture. All access covers are screw type and interchangeable with O-ring seals. Easily accessible and externally mounted.

#### Listings

- UL Listed to US and Canadian standards
- Suitable for use in hazardous locations (UL844) Class I, Division 1, Groups C and D Class II, Division 1, Groups E, F, and G Class III
- Zone Equivalency Markings (See chart on page 5)
- -4°F (-20°C) to 131°F (55°C) (see chart on page 4)
- NEMA 4X, 7CD & 9EFG rated
- IP66 rated
- Paint Spray Booth

#### Buy America Act

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

#### Warranty

5-year limited warranty on the fixture. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.



#### Typical Applications

- |                        |                                        |
|------------------------|----------------------------------------|
| • Paint Spray Booth    | • Chemical Plants                      |
| • Coal & Dust Storage  | • Waste Water & Water Treatment Plants |
| • Petroleum Refineries | • Power Generation Plants              |
| • Ethanol Facilities   |                                        |

#### Dimensions: Inches (millimeters) unless otherwise noted.

See individual fixture dimensions and weight specifications on page 2.

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## ORDERING INFORMATION

**Example:** HXPL L24 2 3000LM AS DM 30K

| Series | Fixture Length | Number of Tubes | Lumens                                 | Voltage              | Dimming                  | Color Temperature | Options                                                                                                |
|--------|----------------|-----------------|----------------------------------------|----------------------|--------------------------|-------------------|--------------------------------------------------------------------------------------------------------|
| HXPL   | L24 2 foot     | 2 2 tubes       | 3L 3000 nominal lumens (2ft, 2 tube)   | AS 120-277V, 50/60Hz | DM Dimmable (0-10V DC) ‡ | 30K 3000K         | EM10WCP 10 watt internal emergency driver, 0°C min, UL924 compliant, certified in CA Title 20 MAEDBS ‡ |
|        | L48 4 foot     | 3 3 tubes ‡     | 4L 4000 nominal lumens (2ft, 3 tube)   | 120 120V, 50/60Hz    | NDM Non-Dimming Driver   | 40K 4000K         | EMO Emergency operation only, UL924 compliant ‡                                                        |
|        |                | 4 4 tubes       | 5L 5000 nominal lumens (4ft, 2 tube)   | 208 208V, 50/60Hz    |                          | 50K 5000K         |                                                                                                        |
|        |                |                 | 8L 8000 nominal lumens (4ft, 3 tube)   | 240 240V, 50/60Hz    |                          |                   |                                                                                                        |
|        |                |                 | 10L 10000 nominal lumens (4ft, 4 tube) | 277 277V, 50/60Hz    |                          |                   |                                                                                                        |
|        |                |                 |                                        |                      |                          |                   | DS Outboard option                                                                                     |
|        |                |                 |                                        |                      |                          |                   | IF In-line Fusing ‡                                                                                    |

| Accessories: Order as separate catalog number. |                                           |           |                                    |
|------------------------------------------------|-------------------------------------------|-----------|------------------------------------|
| HXPL22TSSG                                     | Stainless steel guards (L24 2 3L only)    | HXPL43TPS | Polycarb shield (L48 3 8L only) ‡  |
| HXPL42TSSG                                     | Stainless steel guards (L48 2 5L only)    | HXPL44TPS | Polycarb shield (L48 4 10L only) ‡ |
| HXPL43TSSG                                     | Stainless steel guards (L48 3 8L only)    | HXPLWCMK  | Wall/ceiling mounting kit ‡        |
| HXPL44TSSG                                     | Stainless steel guards (L48 4 10L only) ‡ | HXPLSMK   | Shock mounting kit ‡               |
| HXPL23TPS                                      | Polycarb shield (L24 3 4L only)           | HXPLDMK   | Drop mounting kit ‡                |
| HXPL22TPS                                      | Polycarb shield (L24 2 3L only)           | HXPLBMK   | Beam mounting kit ‡                |
| HXPL42TPS                                      | Polycarb shield (L48 2 5L only)           | HXPLUMK   | Unistrut mounting kit ‡            |

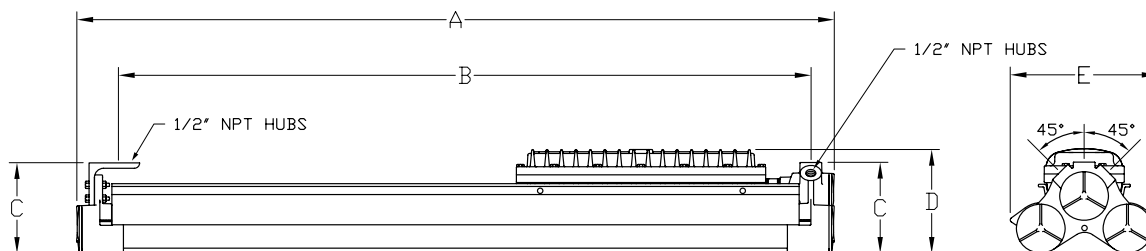
| ‡ Option Value Ordering Restrictions & Notes |                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Option value                                 | Restriction                                                                                                                                                                                                                                                                                                          |
| 3 tubes                                      | The 3 tube option does not have an available accessory mounting kit available. See page 2 for drawing detailing the 3/4" NPT hubs used to mount the fixture.                                                                                                                                                         |
| DM                                           | Not available with EM10WCP or EMO.                                                                                                                                                                                                                                                                                   |
| EM10WCP                                      | Available with L48, 4 foot versions of the fixture only. Not available with DM option. Nameplate label on the fixture will show EM to indicate a battery is included.                                                                                                                                                |
| EMO                                          | Available with the L24 2 3L (3000 lumen) version of the fixture only. Not available with DM option. Fixture operation: Under normal power conditions, battery will charge and fixture will be OFF. If Power is lost then battery will power the LEDs until the power is restored or a min of 90 minutes has elapsed. |
| HXPL44TSSG                                   | Will ship with a qty of 2 HXPL42TSSG guards.                                                                                                                                                                                                                                                                         |
| HXPL44TPS                                    | Will ship with a qty of 2 HXPL42TPS guards.                                                                                                                                                                                                                                                                          |
| HXPL43TPS                                    | 3 tube fixtures with polycarb shields require a qty of 1 HXPL43TSSG stainless steel guard.                                                                                                                                                                                                                           |
| HXPLWCMK, HXPLSMK, HXPLDMK, HXPLBMK          | Available with 2 tube fixtures only.                                                                                                                                                                                                                                                                                 |
| HXPLUMK                                      | Available with 4 tube fixtures only.                                                                                                                                                                                                                                                                                 |
| IF                                           | External Fusing. Must specify voltage at time of order. Nameplate label on the fixture will show AS to indicate the voltage.                                                                                                                                                                                         |

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Hazardous Area Lighting Fixtures

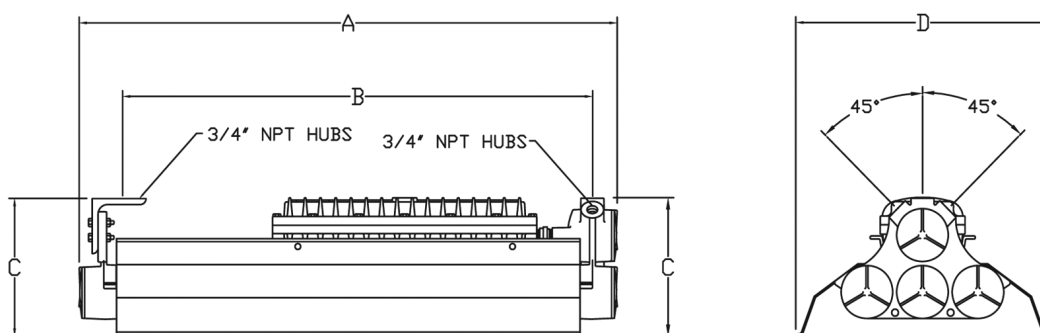
## DIMENSIONAL DATA

### 2 tube fixture dimensions



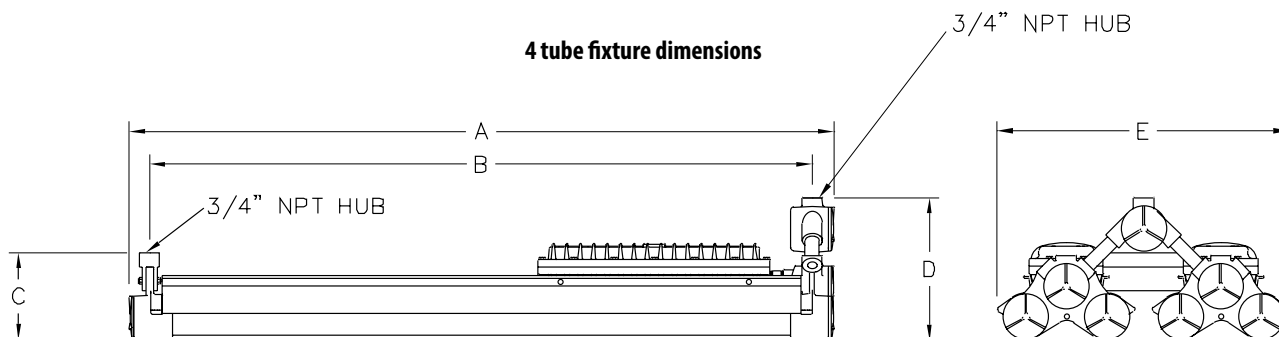
| Package             | A   | B     | C    | D  | E     | Boxed Weight |
|---------------------|-----|-------|------|----|-------|--------------|
| Two-tube, four-foot | 53" | 48.5" | 6.5" | 7" | 11.5" | 65 lbs.      |
| Two-tube, two-foot  | 29" | 24.5" | 6.5" | 7" | 11.5" | 40 lbs.      |

### 3 tube fixture dimensions



| Package               | A   | B     | C    | D     | Boxed Weight |
|-----------------------|-----|-------|------|-------|--------------|
| Three-tube, four-foot | 53" | 48.5" | 8.9" | 16.3" | 78 lbs.      |
| Three-tube, two-foot  | 29" | 24.5" | 8.9" | 16.3" | 47 lbs.      |

### 4 tube fixture dimensions



| Package              | A   | B     | C    | D     | E     | Boxed Weight |
|----------------------|-----|-------|------|-------|-------|--------------|
| Four-tube, four-foot | 53" | 49.4" | 6.8" | 11.3" | 23.2" | 138 lbs.     |

## HXPL Series

Hazardous Area Lighting Fixtures

### OPERATIONAL DATA

#### Operating Characteristics

| Package           | Ambient Rating<br>(120V - 277V)  | Delivered Lumens<br>4000 K CCT @ 25C ‡ | Wattage @ 120V | LPW @ 4000 K |
|-------------------|----------------------------------|----------------------------------------|----------------|--------------|
| HXPL L24 2 3L AS  | -4°F to 131°F<br>(-20°C to 55°C) | 2783                                   | 26.6           | 104.6        |
| HXPL L24 3 4L AS  | -4°F to 131°F<br>(-20°C to 55°C) | 4110                                   | 36.75          | 111          |
| HXPL L48 2 5L AS  | -4°F to 131°F<br>(-20°C to 55°C) | 5450                                   | 46.9           | 116.2        |
| HXPL L48 3 8L AS  | -4°F to 131°F<br>(-20°C to 55°C) | 8220                                   | 73.5           | 111.8        |
| HXPL L48 4 10L AS | -4°F to 131°F<br>(-20°C to 55°C) | 10918                                  | 93.6           | 116.6        |

| ‡ Notes                           |                                                                   |
|-----------------------------------|-------------------------------------------------------------------|
| Delivered Lumens 4000 K CCT @ 25C | Absolute photometry calculated in accordance with IESNA LM-79-08. |

#### Projected Lumen Maintenance (TM-21)

| Package ‡                | 0 Hours | 15,000<br>Hours | 30,000<br>Hours | 45,000<br>Hours | 60,000<br>Hours |
|--------------------------|---------|-----------------|-----------------|-----------------|-----------------|
| HXPL L48 4 10L AS @ 25°C | 1.0     | 0.95            | 0.91            | 0.87            | 0.83            |
| HXPL L48 4 10L AS @ 40°C | 1.0     | 0.94            | 0.89            | 0.85            | 0.80            |
| HXPL L48 4 10L AS @ 55°C | 1.0     | 0.92            | 0.86            | 0.80            | 0.74            |

| ‡ Notes |                                                                                  |
|---------|----------------------------------------------------------------------------------|
| Package | Project lumen maintenance factors at max. ambient temperature per lumen package. |

#### Operating Temperature Code for Hazardous Locations:

| Package ‡      | Max Ambient<br>Range | Class I Division 1<br>Groups C, D | Class II Division 1,<br>Groups E, F, G, Class III |
|----------------|----------------------|-----------------------------------|---------------------------------------------------|
| HXPL L24 2 3L  | 55°C                 | T6                                | T4A                                               |
| HXPL L24 3 4L  | 55°C                 | T6                                | T5                                                |
| HXPL L48 2 5L  | 55°C                 | T6                                | T4A                                               |
| HXPL L48 3 8L  | 55°C                 | T6                                | T5                                                |
| HXPL L48 4 10L | 55°C                 | T6                                | T4A                                               |

| ‡ Notes |                                  |
|---------|----------------------------------|
| Package | Supply wire temperature is 75°C. |

### Emergency Lumen Output

#### How to Estimate Delivered Lumens in Emergency Mode

Use the formula below to estimate the delivered lumens in emergency mode

$$\text{Delivered Lumens} = P \times \text{LPW}$$

P = Output power of emergency driver

LPW = Lumen per watt rating of the luminaire. (See chart on page 4)

The LPW rating is also available at [Designlight Consortium](#)

P = 10 watts for EM10WCP

### Emergency Lumen Output Example - 10 Watt Battery

| Approximate Luminaire Efficacy | Approximate Lumens at 1 Minute | Approximate Lumens at 45 Minutes | Approximate Lumens at 90 Minutes |
|--------------------------------|--------------------------------|----------------------------------|----------------------------------|
| 100 LPW                        | 1000                           | 1000                             | <b>1000</b>                      |
| 110 LPW                        | 1100                           | 1100                             | <b>1100</b>                      |
| 120 LPW                        | 1200                           | 1200                             | <b>1200</b>                      |
| 130 LPW                        | 1300                           | 1300                             | <b>1300</b>                      |
| 140 LPW                        | 1400                           | 1400                             | <b>1400</b>                      |
| 150 LPW                        | 1500                           | 1500                             | <b>1500</b>                      |

### Zone Equivalency Markings

| NEC Protections |                                     |                                  |                              |
|-----------------|-------------------------------------|----------------------------------|------------------------------|
| Area            | Protection Techniques               | Zone Equivalency Markings        |                              |
| Class I         |                                     |                                  |                              |
| Division 1      | Intrinsic Safety                    | CLASS I, DIV 1, GROUP D          | CLASS I, ZONE 1 GROUP IIA    |
|                 | Explosion Proof                     | CLASS I, DIV 1, GROUP C          | CLASS I, ZONE 1 GROUP IIB    |
| Class II        |                                     |                                  |                              |
| Division 1      | Intrinsic Safety                    | CLASS II, DIV 1 GROUP E, F, OR G | CLASS II ZONE 20 AND ZONE 21 |
|                 | Dust-ignitionproof                  |                                  |                              |
|                 | Pressurized                         |                                  |                              |
| Class III       |                                     |                                  |                              |
| Division 1      | Intrinsic Safety                    | N/A                              | N/A                          |
|                 | Dust tight                          |                                  |                              |
|                 | Hermetically-sealed                 |                                  |                              |
| Division 2      | Nonincendive                        | N/A                              | N/A                          |
|                 | Any Class III, Division 1 technique |                                  |                              |