**WET PROTECTED**

The X3 is designed and certified UL to be suitable for Wet Location. Can be specified for interior and exterior applications.

**SLEEK & STRONG**

An aluminum extrusion made of 60% recycled material provides durable functionality in an elegant compact form.

**UNIFORM ILLUMINATION**

A high performance translucent HTD optic combines with advanced UV resistant technology to provide unshielded uniform illumination in a soft glowing linear form.

**CORE CAPACITY**

Integral 0-10V dimming driver down to 1%. Additional options include Lutron, DMX, and DALI control protocols. Integral IOTA slim 12W emergency battery pack provides an easy solution for egress compliance.

**POWERFUL PERFORMANCE**

High performance Nichia 80+ CRI LEDs provide an optimal light source for tailored lighting design.

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**ELEMENTS**

Elements is a simplified product line comprised of 8’, 9’, 10’ and 11’ vertical heights and 2’ and 3’ cantilever lengths.
LIGHT OUTPUT

OUTPUT
LH: High output - 10 W/ft
LS: Standard output - 5 W/ft
LL: Low output - 2.5 W/ft
C: Custom tuned output - Specify Wattage

LIGHT LOSS FACTORS
LH: Baseline
LS: 50%
LL: 25%
4000K: Baseline
3500K: 97%
3000K: 93%
80+CRI: Baseline
90+CRI: 80%

PHOTOMETRIC DATA

LH - 4000K - HTD-UV
Lumens: 360 lm/ft
Input watts: 9.5 W/ft
Efficacy: 38 lm/W

SAMPLE INSTALLATION - OUTDOOR WALKWAY

LS / 4000K
Walkway width: 10 ft
Ground reflectance: 20%
Mounting height: Ground
Fixture height: 11 ft; 8ft lighted length
Cantilever length: 3 ft
Calculation grid: 2 ft x 2 ft
Calculation plane (horizontal): Ground
Fixture spacing: 15 ft Staggered
Average illuminance: 0.98 fc
Uniformity: 4.9:1 (avg/min), 31.5:1 (max/min)
### Performance at 4000K

<table>
<thead>
<tr>
<th>Nominal Lumen Output</th>
<th>Input Watts</th>
<th>Efficacy</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>360 lm/ft</td>
<td>9.5 W/ft</td>
</tr>
<tr>
<td>Standard</td>
<td>180 lm/ft</td>
<td>5 W/ft</td>
</tr>
<tr>
<td>Low</td>
<td>90 lm/ft</td>
<td>2.5 W/ft</td>
</tr>
</tbody>
</table>

Custom tuned output available from 25% to 125% of high output. Please consult factory for custom lumen output and wattage.

### Light Loss Factors

<table>
<thead>
<tr>
<th>Baseline</th>
<th>Output</th>
<th>LED CCT</th>
<th>CRI</th>
</tr>
</thead>
<tbody>
<tr>
<td>LH</td>
<td>LL</td>
<td>4000K</td>
<td>80+ CRI</td>
</tr>
<tr>
<td>LS - 50%</td>
<td>LS</td>
<td>3500K</td>
<td>90+ CRI - 80%</td>
</tr>
<tr>
<td>LL - 25%</td>
<td>LH</td>
<td>3000K</td>
<td>90+ CRI - 90%</td>
</tr>
</tbody>
</table>

### Ordering Code

<table>
<thead>
<tr>
<th>X3</th>
<th>H</th>
</tr>
</thead>
</table>

### Project Info

<table>
<thead>
<tr>
<th>Date</th>
<th>Type</th>
<th>Quantity</th>
</tr>
</thead>
</table>

### Mounting Options

- **(M)** Chamfered Base
- **(S)** Square Base
- **(DR)** Direct Burial

### Mounting

- **M** Chamfered Base
- **S** Square Base
- **DR** Direct Burial

### Finish

- **T** a·lightium™
- **B** Satin Black
- **DB** Dark Bronze
- **O** Other*

### Dimming

- **D** Standard 0-10 Dimming*

### Options

- **N** New York City Code

*Specify height, max 15’

*Available from 25% to 125% of LED High Output

*Specify RAL #

*Dimming to 1% stated for standard 0-10v dimming

*Reduces above ground height up to 4” once backfilled

*Specify RA #
LINEAR DIMENSIONS
Elements - 8’, 9’, 10’ and 11’ vertical heights and 2’ and 3’ cantilever lengths. Overall height = lighted length + base height + cantilever height. Base height varies. Reference base height dimensions on “mounting” page. Cantilever height is 4’. Direct burial option reduces height above ground up to 4”.

OPTICS
HTD™ - UV lens is a high performance polycarbonate opal lens combined with advance UV resistance technology. An optimized surface texture plus advanced diffusing additives produces impressive illumination while eliminating LED hotspots.

LED LIGHT SOURCE
Custom manufactured linear board array uses high performance Nichia® LED in combination with a performance driven heat sink technology. Tested in accordance with LM79 and LM-80; L70>60,0000hr; operated at reduced output for high efficacy and lumen maintenance, 3000K, 3500K, and 4000K with 80+ CRI standard; other color temperatures and 90+ CRI available upon request, contact factory. LED color variation maintained at a 3-step MacAdam ellipse (SDCM 3x). LEDs are available in Low, Standard, and High outputs. Refer to photometry for delivered lumens. Custom output in the range of 25% to 125% of high output, contact factory.

LED DIMMING DRIVER
Factory tuned constant current electronic 0-10V control dimming driver is standard. Specification grade dimming down to 1%. Driver life of 50,000 hrs with ambient operating temperature range of -30°C to 50°C, maximum case temperature of 75°C. Electrical specifications at maximum driver load: PF >0.9, THD <20%, >85% Efficiency. Other available drivers include Lutron Eco-system H-series (LDE1); Hi-lume™ 1% LED dimming driver with Soft On, Fade to Black; and DMX and DALI protocol drivers. Other Lutron and specialty drivers available, contact factory.

MOUNTING
Ground Mount: Free standing milled mounting plate and stainless steel anchor platform. Form and frame by others. No grout required. Chamfered or square base is 7-3/4” x 7-3/4”.

Direct Burial: Free standing square base with concealed mounting plate and stainless steel anchor platform for a clean, simple aesthetic. Concrete base must be cast up to 4” lower than grade allowing material to be backfilled over the concrete and mounting base. Form and frame by others. No grout required.

STRUCTURE
Robust, high quality 60% recycled aluminum extruded housing. 1/4” thick. Precision-milled 3/8” endcaps. Impact-resistant, 1/4” polycarbonate outer lens. Neoprene gasketed. 1/4” deep milled mounting plate. Lighted vertical post with illuminated cantilever arm seamlessly welded at the corner.

FINISH
Electrostatically applied powder coat finish. Standard finish options include alightanium™, satin white, and satin black. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirement.

MAINTENANCE
Top accessible gear tray is the length of the housing and slides out for servicing. Clearance above bollard must be in excess of the actual bollard height, therefore a 4ft fixture requires an additional 4ft clearance. Integral plug connects to site wiring and unplugs when tray is removed.

WARRANTY
Limited defect-free manufactured equipment warranty provided under normal use and proper storage for a period of one (1) year. LED products (LED boards and drivers) will be covered for a period of five (5) years. Wet location fixtures are not recommended for extreme wet weather conditions and must be installed according to factory drawings; there is a modified warranty for LED components installed in applications not in accordance with factory recommendations/drawings. Please refer to full terms and conditions on our website.