Industry lighting insights

There is work to be done, and the workspace is big, with people and goods moving in and out. Here, productivity and safety must go hand in hand.

Industrial applications require effective lighting on a large scale, which means that low energy consumption and low maintenance are a must. But the lighting also needs to create a clear, safe and pleasant environment. With Philips lighting controls, the light switches off whenever the space is not being used, for extra savings.

Traditional
Conventional waterproof 2x58W TLD (16x)

Savings over life *
€7828,-
€3830,-

Application bundle
CoreLine Waterproof LED60S (16x) incl. detector

€11659,-

* Based on the European average of 12 cent/kW hours (including maintenance and lamp replacement cost) and the lighting design for this application bundle.

Your Industry application bundle:
CoreLine Waterproof LED60S & Movement detector LRM1040

Up to 65% energy savings

More info:
www.philips.com/coreline
Bundle benefits

CoreLine Waterproof LED60S
- Replacing conventional TL-D
- Energy saving

Movement detector LRM1040
- Daylight override prevents switch on if enough daylight is available
- Turns off lighting when not required
- IP54

Bundle specifications

**CoreLine Waterproof LED60S**
- Type: WT120C LED60S/840 PSU L1500
- Power: 57 W
- Luminous Flux: 6000 lm
- Color temperature: 4000 K
- Color Render Index: ≥ 80
- Lifetime: 50,000 hours
- Number of luminaires on MCB 16A type B: ≤ 24
- Ordering (EOC) code: 84049700

**Movement detector LRM1040**
- Detecting range at 2.5 m height: 12 m
- Recommended mounting height: 1.8 – 2.5 m (wall mounting)
- Switch off delay: 5 sec. – 12 min.
- Number of luminaires on one control: ≤ 24
- Ordering (EOC) code: 22573700

**Lighting design insights**

**Uniformity**
Use wide light beams in order to increase uniformity. High uniformity contributes to a comfortable workplace without disturbing shadows.

**Waterproof luminaires**
Many industrial environments are wet or dusty. Use waterproof luminaires for safe and reliable lighting.

**Controls**
When placing a presence detector consider entrances and exits to avoid going into a dark area. Also take into account high furniture and machinery. These can block the detection zone.

**Illuminance requirements**
EN12464-1 requirement at task ≥ 300 lux for general machinery work. Higher levels increase visibility.

**Lighting design industry**

<table>
<thead>
<tr>
<th>Luminaire types</th>
<th># Lum.</th>
<th>Em [lux]</th>
<th>Sys. Power</th>
<th>Installed Power</th>
<th>W/m2</th>
<th>W/m2/100lux</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conventional waterproof 2xTLD 58 W</td>
<td>16</td>
<td>336</td>
<td>110 W</td>
<td>1760 W</td>
<td>9.8</td>
<td>2.9</td>
</tr>
<tr>
<td>CoreLine Waterproof LED60S</td>
<td>16</td>
<td>328</td>
<td>57 W</td>
<td>928 W</td>
<td>5.2</td>
<td>1.6</td>
</tr>
</tbody>
</table>