NEXT GENERATION SOLID STATE AND REMOTE PHOSPHOR LED Indoor Lighting Solutions
THE HORNER Advantage

Horner Lighting Group Indoor Remote Phosphor (RP) fixtures, light guide optics, space-age materials, and optically-designed reflectors provide an innovative approach for creating increased light output and sustainable energy savings in LED lighting applications.

With Remote Phosphor Technology, the phosphor is separated from the LED itself and utilized in a remote substrate or plate. White light materializes when Royal Blue LED light passes through the remote phosphor, creating one visible light source, the phosphor itself, rather than several glaring diodes.

These new advanced technologies create glare reduction, less color shift, increased efficiency, reduced heat, and life cycle enhancement.

With proven success in a wide variety of applications, Horner Indoor LED fixtures are ideal for:

- Retail Sales Environments
- Auto Dealerships
- Warehouse or Factory
- Grocery Industry
- Security Lighting
- High-detail Inspection Settings
- Gymnasiums
- Automated Lighting Systems

LINEAR LIGHTING

The award-winning, state-of-the-art Horner LED Linear Remote Phosphor (LRP) series offers the greatest flexibility to suite a variety of applications. Available with high, medium, and low bay reflector options, the LRP series can be equipped with a variety of controls options, including various automation, dimming, and power options. Sizes also fit any application – available up to 8 tubes per fixture, 4 or 8 foot sections.

The sleek, rugged LRP design and variety of luminaire output options leads to time savings during installation and long-term energy cost savings. A variety of CRI and lumen output options can be customized to fit any illumination need, from detailed settings requiring a high CRI to aisle or warehouse work environments needing sufficient, safe light.

HIGH BAY LIGHTING

In addition to the LRP series, Horner offers several bay and task lighting solutions. The Circular High Bay (CHB) Series feature large-area luminaires. Lumen output exceeds traditional HID competition for a fraction of the energy cost, saving up to 30%. Perfect for commercial applications and indoor loading areas.

Bay lighting designs are versatile and extend into several different light groups. With standard mounting options and a wide range of AC inputs, the CHB series can be used in settings from gymnasium lighting to larger retail settings. Easy, flexible installation leads to replacement of older, inefficient fixtures, lower maintenance costs, and increased ROI.
RED ENHANCED TECHNOLOGY
Some applications benefit greatly from lighting systems that have higher red content. Horner Lighting has determined that red light passes through the phosphor material with very little change in wavelength or output. This enables blending blue and red LEDs behind the phosphor to increase the red content of the light source. This not only increases the color rendering index (CRI) of the light, but also creates a three peak light source that slightly saturates colors making them appear more pleasing.

LIGHTING CONTROLS
The Horner suite of control products allow for easy monitoring of all lighting functions, including dimming, motion control, occupancy, and ambient light sensing, resulting in cost savings and increased site management. Viewable on-site or from a remote location, the Horner suite is easy-to-install and easily customizable with our cost-free software platform, Cscape.

Horner OCS Controllers offer an intelligent combination of lighting management, energy usage data-logging, and a user friendly touch-screen interface. The control devices are ready to use, and can be programmed to work with any lighting needs in an all-in-one package.

WHAT IS REMOTE PHOSPHOR TECHNOLOGY?
Traditionally, white LED light is produced from a layer of phosphor adhered to on top of a royal blue LED. Over time, as heating cycles take effect, the adhesion begins to disintegrate and the phosphor layer “lifts” from the blue LED around the edges. This causes both depreciation of color and light output, as less of the light passes through the phosphor.

With Remote Phosphor technology, the phosphor is removed from the LED itself and relocated. Royal blue LEDs illuminate behind the phosphor material, causing it to emit bright white light. The phosphor density can change light output color, and LED arrangements can be specialized for red enhanced CRI. With the phosphor and LED separated, less heat is generated, and the phosphor remains at a constant, even exposure to the royal blue LEDs, generating a longer-lasting, more consistent light.
**Standard Base Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>2x4 Flat Panel</th>
<th>2x2 Flat Panel</th>
<th>1x4 Flat Panel</th>
<th>C40</th>
<th>C60</th>
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</thead>
<tbody>
<tr>
<td>Lumen Maintenance</td>
<td>L70 &gt;80,000</td>
<td>L70 &gt;80,000</td>
<td>L70 &gt;80,000</td>
<td>L70 &gt;110,000</td>
<td>L70 &gt;200,000</td>
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<tr>
<td>Fixture Watts</td>
<td>40W / 80W</td>
<td>40W</td>
<td>40W</td>
<td>40W</td>
<td>60W</td>
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<tr>
<td>Lumens/Watt</td>
<td>3,720 - 7,200</td>
<td>3,800</td>
<td>3,500 - 3,700</td>
<td>5,000</td>
<td>7,500</td>
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<tr>
<td>Standard CRI^</td>
<td>87.5 - 105</td>
<td>90</td>
<td>90</td>
<td>80</td>
<td>125</td>
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<tr>
<td>Standard CCT</td>
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<td>80</td>
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<td>3000K, 4000K, 5000K</td>
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<td>-10°C to 40°C</td>
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<td>-10°C to 40°C</td>
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<td>Mounting</td>
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<td>Ceiling Grid / Hooks</td>
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<tr>
<td>Power</td>
<td>120~277 VAC</td>
<td>120~277 VAC</td>
<td>120~277 VAC</td>
<td>120~277 VAC</td>
<td>120~277 VAC</td>
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<tr>
<td>Optional Power</td>
<td>347 / 480</td>
<td>347 / 480</td>
<td>347 / 480</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>IP Rating</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Fixture Weight</td>
<td>8.0 lbs / 3.6 kg</td>
<td>4.0 lbs / 1.8 kg</td>
<td>4.0 lbs / 1.8 kg</td>
<td>9.0 lbs / 4.1 kg</td>
<td>9.0 lbs / 4.1 kg</td>
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<tr>
<td>Fixture Color</td>
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<td>Silver</td>
<td>Black</td>
<td>Black</td>
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<tr>
<td>Light Distribution</td>
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<td>Warranty</td>
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</tbody>
</table>

**Optional Features**

- Automation
- Motion Control
- Dimming
- Wireless
- High CRI Options
- Red Enhanced Options
- High Capacity Surge
- Photo Sensor Options
- Fixture Color Options
- Reflectors
- Additional Power Options

*Base fixture specifications featured
†Higher CRI available with optional phosphor plates
*Wattage dependent on number of tubes selected (+6)
**Standard Base Specifications**

<table>
<thead>
<tr>
<th>Fixture Watts</th>
<th>Lumen Maintenance</th>
<th>Fixture Lumens (*est)</th>
<th>Lumens/Watt</th>
<th>Standard CCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>100W</td>
<td>L70 &gt;80,000 / L90 &gt;5,000</td>
<td>150W</td>
<td>80+</td>
<td>5,000K</td>
</tr>
<tr>
<td>13,000</td>
<td>118 - 130</td>
<td>19,500</td>
<td>80+</td>
<td>-14°C to 50°C</td>
</tr>
<tr>
<td>118 - 130</td>
<td>80+</td>
<td>118 - 130</td>
<td>80+</td>
<td>-14°C to 50°C</td>
</tr>
<tr>
<td>5,000K</td>
<td>5,000K</td>
<td>5,000K</td>
<td>5,000K</td>
<td>-14°C to 50°C</td>
</tr>
<tr>
<td>120-277 VAC</td>
<td>277 / 480</td>
<td>120-277 VAC</td>
<td>277 / 480</td>
<td>90 – 110</td>
</tr>
<tr>
<td>277 / 480</td>
<td>IP65</td>
<td>277 / 480</td>
<td>IP65</td>
<td>3,500K, 4,000K, 5,000K, 80 (optional 90 / 94)</td>
</tr>
<tr>
<td>7.0 lbs / 3.2 kg</td>
<td>Black</td>
<td>8.5 lbs / 3.9 kg</td>
<td>Black</td>
<td>3,500K, 4,000K, 5,000K, 80 (optional 90 / 94)</td>
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<tr>
<td>120’, 90’, 70’, 60’</td>
<td>120’, 90’, 70’, 60’</td>
<td>120’, 90’, 70’, 60’</td>
<td>120’, 90’, 70’, 60’</td>
<td>5 year</td>
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<td>5 year</td>
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<td>5 year</td>
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</table>

**Optional Features**

- Automation: ✓
- Motion Control: ✓
- Dimming: ✓
- Wireless: ✓ (standard)
- High CRI Options: ✓
- Red Enhanced Options: ✓
- High Capacity Surge: ✓
- Photo Sensor Options: ✓
- Fixture Color Options: ✓
- Reflectors: ✓
- Additional Power Options: ✓

**4' Linear Remote Phosphor: 1-4, and 6 Tubes**

- L90 >96,000
- 60 - 480W
- 5,700 - 52,800
- 90 – 110
- 80 (optional 90 / 94)
- 3,500K, 4,000K, 5,000K
- -40°C to 50°C
- Cable
- 120-277 VAC
- 480 VAC
- IP50
- 3.5 - 22 lbs / 1.6 - 10 kg
- Silver
- 220’, 52’, 44’, 33’
- 5 year

**8' Linear Remote Phosphor: 1 and 2 Tubes**

- L90 >96,000
- 80 - 320W
- 7,600 - 30,400
- 90 – 110
- 80 (optional 90 / 94)
- 3,500K, 4,000K, 5,000K
- -40°C to 50°C
- Cable
- 120-277 VAC
- 480 VAC
- IP50
- 8 - 18 lbs / 3.6 - 6.8 kg
- Silver
- 220’, 52’, 44’, 33’
- 5 year

*Base fixture specifications featured
†Higher CRI available with optional phosphor plates
*Wattage dependent on number of tubes selected (1-6)

Please visit our website for a complete listing and to learn more about certified Horner Lighting products.
### Standard Base Specifications

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<td></td>
<td>5,000K</td>
<td>-40°C to 50°C</td>
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<td></td>
<td></td>
<td>8 - 18 lbs / 3.6 - 6.8 kg</td>
<td>Silver</td>
<td>120, 52°, 44°, 33°</td>
<td>5 year</td>
</tr>
</tbody>
</table>

### Optional Features

<table>
<thead>
<tr>
<th>Automation</th>
<th>Motion Control</th>
<th>Dimming</th>
<th>Wireless</th>
<th>High CRI Options</th>
<th>Red Enhanced Options</th>
<th>High Capacity Surge</th>
<th>Photo Sensor Options</th>
<th>Fixtures Color Options</th>
<th>Reflectors</th>
<th>Additional Power Options</th>
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