Converge
LED architectural luminaires
Neo-Ray Converge luminaires

Minimalist design. Maximum effect.

Meet the new standard in ambient lighting. The Converge™ series by Neo-Ray® pairs clean, minimalist design with the most advanced optical distribution and control on the market. With no traditional, unsightly power cords, the luminaire is elegantly suspended by aircraft cables that deliver low-voltage power.

2944 Sq ft, 16 ft x 8 ft spacing, 24 4 ft fixtures @ L4
18 ft ceiling with 9.5 ft suspension length
Task: 28 fc avg, avg/min = 1.7:1
Ceiling: 13.3 fc avg, avg/min = 1.2:1
Power Consumption: 0.41 Watts per sq ft
Dynamic design options

The Converge is available in 4’ and 8’ individual luminaires and continuous runs in 4’ increments. For added design flexibility, the luminaire is offered in both curvilinear and rectilinear profiles. The design possibilities are endless.
The science behind the design

Next generation curved Wavestream® LED technology.

Our proprietary light mixing chamber and optical coupling (patent pending) maximizes the amount of light injected into the WaveStream LED panels while ensuring uniform color and light distribution.

Not only is the luminaire incredibly efficient (up to 121 Lm/W), but our design team meticulously refined the optical distribution using Laser-precise AccuAim™ optics arranged in exacting patterns for unmatched optical performance. The resulting luminaire is both visually stunning and incredibly high performing.

2783 Sq ft, 16ft x 13ft spacing, 12 8ft fixtures @ L3
11ft ceiling with 2ft suspension length
Task: 29.4 fc avg, avg/min = 2.5:1
Ceiling: 19.2 fc avg, avg/min = 2.8:1
Power consumption: 0.33 Watts per sq ft
The science behind the optics

Take design flexibility to a new plane.

All aspects of the wing-shaped design, from the angle to the bend radius, were uniquely designed with one goal in mind — maximizing both visual comfort and energy efficiency.

The Converge’s ideal uplight distribution provides unmatched ceiling uniformity, allowing lighting designers to increase row spacing regardless of the suspension length. Increasing luminaries row spacing drives down the total installed cost of lighting, while reducing the overall watts per square foot.

<table>
<thead>
<tr>
<th>Suspension Length</th>
<th>Spacing 12”</th>
<th>15”</th>
<th>18”</th>
<th>24”</th>
<th>30”</th>
<th>36”</th>
</tr>
</thead>
<tbody>
<tr>
<td>10’</td>
<td>4.7</td>
<td>3.0</td>
<td>2.2</td>
<td>1.6</td>
<td>1.6</td>
<td>1.8</td>
</tr>
<tr>
<td>12’</td>
<td>7.9</td>
<td>4.9</td>
<td>3.4</td>
<td>1.5</td>
<td>1.5</td>
<td>1.6</td>
</tr>
<tr>
<td>14’</td>
<td>12.5</td>
<td>7.5</td>
<td>5.1</td>
<td>1.5</td>
<td>1.5</td>
<td>1.6</td>
</tr>
<tr>
<td>16’</td>
<td>18.8</td>
<td>11.2</td>
<td>7.3</td>
<td>3.4</td>
<td>1.9</td>
<td>1.6</td>
</tr>
</tbody>
</table>

Maximum / Minimum Illuminance Uniformity Table

1276 Sq ft [58’ x 22’]
16ft Runs @ L2, 16ft row spacing
10’ ceiling w/ 18” suspension length
Task: 28.9 ft avg. avg/min = 1.8:1
Ceiling: 20.2 ft avg. avg/min = 2.3:1
Power Consumption: 0.34 Watts per sq ft
Flexible mounting options

With a variety of mounting configurations, the Converge can be installed to multiple ceiling surfaces.

Advanced LuxWire™ technology

Low-voltage power is delivered to the suspended luminaire via aircraft cables. Drivers and bulky power cords are tucked above the ceiling, allowing the luminaire to suspend beautifully in space.
Synchronizing light and movement

Converge LED luminaires are fully controllable to maximize energy and savings.

Save energy and money during off-peak times while extending the life of your system with Eaton’s wide range of convenient control options.

**Enabled solutions:** Integral 0-10V dimming drivers are standard and can be controlled by external systems. Optional FifthLight DALI drivers enable addressable digital control.

**Connected solutions:**

- **LumaWatt Pro**
  The Converge is available with a factory-wired, tile-mount LumaWatt Pro sensor. Building owners can drive down energy costs, improve occupant comfort and establish a unified solution for energy management and building automation. The system provides more than 70 percent energy savings on lighting use through occupancy detection, task tuning, daylight harvesting, scheduling and metering of actual power consumption.

- **DLVP**
  The Converge is available with a Distributed Low-Voltage Power (DLVP) driver designed to provide energy-efficient code compliance in a simplified package. The DLVP system streamlines installation, reducing total install time up to 40 percent, while reducing total install cost up to 20 percent over traditional wiring methods. End-users will save on operating costs with a system designed to drive energy efficiency throughout the building, while benefiting from centralized and simplified operation.

The Converge lends itself especially well to daylight harvesting. With its sleek design and transparent WaveStream panels, the Converge minimizes shadows from desirable natural lighting. In this open office example, a ceiling mounted daylight sensor is used to provide open-loop daylight harvesting zones, achieving up to 30% energy savings.

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**Task:**
- 32.7 fc avg, avg/min = 2.1:1

**Ceiling:**
- 16.6 fc avg, avg/min = 1.7:1

**Power Consumption:**
- 0.39 Watts per sq ft

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**Example:**
- 3200 Sq ft, 14ft row spacing, 9 24ft runs @ L2
- 14ft ceiling with 4.5ft suspension length
- Task: 32.7 fc avg, avg/min = 2.1:1
- Ceiling: 16.6 fc avg, avg/min = 1.7:1
- Power Consumption: 0.39 Watts per sq ft
## Available finishes

The Converge is offered in three standard powder coated finishes to help enhance your space.

- Silver
- White
- Black

## Technical specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>S920DIP, Converge Rectilinear</td>
<td>Universal 120-277 VAC</td>
</tr>
<tr>
<td>Direct / Indirect Pendant</td>
<td>120 VAC</td>
</tr>
<tr>
<td>S921DIP, Converge Curvilinear</td>
<td>277 VAC</td>
</tr>
<tr>
<td>Direct / Indirect Pendant</td>
<td>347 VAC</td>
</tr>
<tr>
<td></td>
<td>48 VDC (DLVP)</td>
</tr>
</tbody>
</table>

- **Optics:** Wavestream
- **Up:** 40% - **Down:** 60%

- **Light Levels (Nominal per 4’ section):**
  - Light Level 1: 2100 Lms
  - Light Level 2: 3200 Lms
  - Light Level 3: 4300 Lms
  - Light Level 4: 5400 Lms
  - Light Level 5: 6500 Lms

- **Color Temperature:**
  - 3000K (80CRI min)
  - 3500K (80CRI min)
  - 4000K (80CRI min)

- **Length:**
  - 4’ Individual
  - 8’ Individual
  - Continuous Runs

- **Finish:**
  - Powder Coat:
    - White, Silver or Black

- **Integral Emergency:**
  - Integral Battery Pack
  - Generator Transfer Device

- **Options:**
  - Chicago Plenum
  - Tilemount LumaWatt Pro Sensor

- **Additional information**
  - **Warranty:** 5 year
  - **UL/cUL:** Damp Location Listed
  - **LM79/LM80:** Compliant
  - **RoHS:** Compliant

*Specifications and dimensions subject to change without notice. Please refer to product specification sheet for the most updated technical data.*

eaton.com/converge
Lighting Product Lines
Halo
Halo Commercial
Portfolio
Iris
RSA
Metalux
Corelite
Neo-Ray
Fail-Safe
MWS
Ametrix
Shaper
io
Lumark
McGraw-Edison
Invue
Ephesus
Lumière
Streetworks
AtLite
Sure-Lites

Controls Product Lines
Greengate
iLumin
Zero 88
Fifth Light Technology
iLight (International Only)

Connected Lighting Systems
LumaWatt Pro
WaveLinx
Distributed Low-Voltage Power
ConnectWorks