Scale employee engagement and sustainable operations to the next level with connected lighting, sensors and software apps

Find out more about Interact
Interact Office turns any office into a smart office by delivering value to all stakeholders.

“I need to lower my operational costs and save as much energy as possible”

“I want to optimize my space by tracking occupancy rates”

“Maintenance of a connected system has to be minimal and easy”

“I wish it were simpler to manage my lighting or upgrade it”
From corporate real estate managers, to building owners and facility managers, and even to employees, Interact Office brings value to everyone. Simply install LED connected lighting with embedded IoT sensors, and use Interact Office software and insights to optimize operations, enhance building and employee performance, and help increase employee engagement and well-being. Use Interact Office software and system architecture to contribute to energy and maintenance cost reductions, better space management, possible reduction in rental or cleaning costs, all while helping keep your employees more satisfied and comfortable.

“Upgrading must go smoothly and not adversely affect my existing network”

“Having cutting-edge connected lighting would make it easier to keep and attract talent”

“I wish I didn’t have to waste so much time finding a desk or meeting room”

“I’m energized by a workplace that I can personalize”
## Your challenges

<table>
<thead>
<tr>
<th>Challenge</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>5% of all energy is consumed by lighting&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Up to 85% of energy savings from LED lighting, integrated sensor &amp; HVAC integration&lt;sup&gt;2&lt;/sup&gt;</td>
</tr>
<tr>
<td>Frequent maintenance</td>
<td>Prescriptive maintenance get real time and historical performance data and remote diagnostics on compatible installed devices NO batteries, sensors powered from lighting infrastructure</td>
</tr>
<tr>
<td>Less than 50% of average office space is utilized&lt;sup&gt;3&lt;/sup&gt;</td>
<td>Desk utilization info with people counting sensors, get desk level accuracy on utilization for up to 35% reduction in cost of office space per employee&lt;sup&gt;4&lt;/sup&gt;</td>
</tr>
<tr>
<td>Inefficient flat-fee maintenance and cleaning contracts</td>
<td>$8/100 ft&lt;sup&gt;2&lt;/sup&gt; yearly cost reduction in condition-based maintenance and cleaning contracts&lt;sup&gt;5&lt;/sup&gt;</td>
</tr>
<tr>
<td>Silo approach for each sub system</td>
<td>Open API and industry standard Achieves flexibility and numerous integration possibilities</td>
</tr>
</tbody>
</table>

3. Source: [https://www.cbre.com/research-and-reports/apac-space-utilisation-the-next-frontier](https://www.cbre.com/research-and-reports/apac-space-utilisation-the-next-frontier)
5. Source: International Facility Management Association, Benchmarks V report #30, 2008; based on $1.62/ft<sup>2</sup> inflation adjusted cleaning cost.
Increase employee engagement and well-being

Your challenges

- **33%** of meetings are unplanned 1
- **70%** spend 15 min/day finding a workspace 2
- **20%** of reserved meeting rooms are unused 3

What Interact delivers

- **Way-finding**
  - quickly locate and navigate to desired spaces via indoor positioning smart algorithms
- **Intelligent spaces**
  - integration with corporate calendar to auto-manage reservations based on real-time occupancy analytics
- **Agile & smart workspaces**
  - use IoT apps from Signify for insights on desk utilization, deliver accurate way-finding, desk reservation, find colleagues etc.
- **Personalized lighting**
  - Up to 0.4 days/person/yr reduction in self reported absenteeism due to lighting/furniture 4
  - Up to 1.3 point reduction in employee turnover due to personal lighting controls allied with new office furniture 4
- **Human centric lighting & environmental monitoring**
  - Designed to mimic daylight patterns through tunable white technology.
  - Use advanced sensors to monitor temperature, humidity, etc.
  - Prevent up to a 6% drop in performance when offices are too hot and up to 4% when too cold 5
- **Cutting-edge**
  - smart building technology with building wide system integration possibilities

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4. CABA Boutique Multi-Client Research Project “Improving Organizational Productivity with Building Automation Systems”.
Build the solution that brings you the most value

Colored shading of windows in the diagram below indicates how much value and savings Interact Office brings compared to other lighting control systems.

Example based on a San Francisco location (100,000 sq ft installation) Class A Office building type whose operational expense can be categorized as 1% spend on energy, 9% spend on space and 90% on employees.

**Values delivered**

1. **Energy savings**
   - **LED with no controls**
   - **Standalone 0–10V system/SpaceWise**
   - **Networked DALI / Dynalite**
   - **Interact Office**

2. **Space optimization**
   - Productivity
   - Engagement
   - Experience
   - Comfort

3. **Operational savings / year**
   - **$420,000**
   - **$860,000**
   - **$83,000**

1. **Productivity savings based on:** 0.5% to 1.5% productivity increase; average for different job types and median salaries in San Francisco.
2. **Operational savings based on:** Assumed 10 minute savings / day on failure identification, system health check & functionality status. Cleaning savings of $8 / 100 ft² (Source: International Facility Management Association, Benchmarks V report #30, 2008).
   
   Across all regions, only 13% of organizations utilize their space more than 80% of the time. 37% of workplaces globally were empty during any given workday in 2018. A 2015 report from CBRE shared similar utilization rates globally: 40% of all office space was empty. Targeting a utilization of 80% is expected to result in $8.5/ft² savings.
3. **Energy savings based on:** Savings from LEDs and sensors. Assumed $0.15 / kWh avg utility cost. Source: http://bit.ly/2y4igeZ.
Breakdown of benefits and features of Interact Office compared to other lighting control systems.

<table>
<thead>
<tr>
<th>Who benefits</th>
<th>Values delivered</th>
<th>LED with no controls</th>
<th>Standalone 0–10V system / SpaceWise</th>
<th>Networked DALI system / Dynalite</th>
<th>Interact Office</th>
</tr>
</thead>
</table>
| **Employers, Employees** | **Productivity** | -- | -- | -- | • Way finding  
• Meeting room scheduling  
• Desk reservation |
| | **Engagement & Experience** | -- | -- | • Dynamic lighting  
• Personal control  
• Branding  
• Location based services |
| | **Comfort** | -- | • Quality of light  
• Background level dimming  
• Dwell time | • Quality of light  
• Background level dimming  
• Tunable White  
• Dwell time | • Environmental quality  
(light, temperature, humidity, noise)  
• Background level dimming  
• Tunable White  
• Dwell time |
| **Employers, Building owners, Developers, Investors, Facility Managers** | **Space optimization & Building efficiency** | -- | -- | -- | • Desk level accuracy  
• People counting  
• Occupancy heat map |
| | **Operational efficiency** | -- | -- | • BMS and other building integration  
• Monitor, manage, control, maintain |
| | **Energy savings** (see energy savings footnote on previous page for details) | • On, Off  
• On, Off, Dimming  
• Zoning  
• Occupancy sensing  
• Daylight harvesting | • On, Off, Dimming  
• Scheduling  
• Occupancy sensing  
• Daylight harvesting | • On, Off, Dimming  
• Scheduling  
• Zoning  
• Occupancy sensing  
• Daylight harvesting |
| **Total operational savings potential** | **Total savings** (see chart on previous page for savings details) | $0  
$0  
$49,000 | $0  
$0  
$68,000 | $140,000  
$2,000  
$73,000 | $420,000  
$860,000  
$83,000 |
| | **Payback** | 5–6 years  
2–3 years  
3–4 years  
2–3 years |

This example is only for reference purposes and is based on certain assumptions & luminaire choices in a typical project.

*Payback calculation based on equipment & Software only, excludes installation and rebates for a typical office scenario listed on previous page.  
Payback includes a 2 year data collection period for productivity benefits.
Day in the life of an office worker

What would a day be like for an office worker with Interact Office installed in your building?

11:00am
Through corporate calendar integration, reserve the nearest room and use way-finding to navigate.

8:00am
Use location based services and way-finding to show the nearest available desk.

11:50am
Lights flash as a visual cue that the scheduled meeting time is coming to an end.
12:15 pm
Location based services help find colleagues for lunch.

2:30 pm
Adjust the color temperature and light levels from a smart phone.

5:00 pm
When leaving the office, lights dim to background level and turn off when the entire space is vacant.
Day in the life of a facilities manager

Empower your facilities manager to run your building more efficiently.

6:00 am
Based on historical occupancy data, floor is shut down and locked out to save energy.

10:12 am
Real time fault notification with way-finding to track location.
2:30 pm
Meet with Corporate Real Estate team to review space optimization.

5:00 pm
Facility manager advises cleaning crew which areas need cleaning based on day's occupancy.
How we deliver

The Interact portfolio of tailor-made software applications unites connected lighting systems and the data that those systems collect with your intelligent building.

**Lighting management**
Monitor and manage your lighting across multiple floors, buildings or campuses from any location. An intuitive dashboard affords insight into lighting usage, and lets you remotely optimize your lighting to reduce operational costs.

**Lighting asset management**
Good quality, reliable lighting is essential for employee comfort, performance, and safety. Interact Office can monitor and manage lighting performance across your entire real estate portfolio. A remote diagnostics dashboard displays notifications of faults and outages for immediate response, while real-time performance data supports predictive maintenance.

**Energy optimization**
Energy-efficient LED lighting and smart lighting control minimizes lighting energy usage and helps you achieve your sustainability goals. Data collected over the connected lighting system offers insight for reducing CO₂ emissions and lighting energy costs. Daylight harvesting and occupancy detection let you reduce lighting and other services when not needed.

**Scene management**
Set light schedules, dimming programs or stimulate employee well-being by supporting employee well-being by supporting individually personalized lighting via a smart phone app. Employees can use different light recipes, where appropriate, for concentration and brainstorming.
Space management
Capture and analyze building occupancy data to give you insight into how your office space is used over time so you can create a workspace that truly meets the needs of your business. Lower real estate costs without compromising workplace efficiency or employee comfort and satisfaction.

Indoor navigation
Where's the nearest free workspace or meeting room? What about the coffee machine? Interact Office Indoor navigation uses the lighting infrastructure, real-time indoor positioning data, and a smartphone app to guide employees to where they want to go. Hyper-accurate indoor navigation enables countless new applications to save employees' time and improve their experience.

Bio-adaptive lighting
Helps you get the best out of your biggest investment: your people. Different levels of light intensity and color temperatures can support well-being, help to energize staff and enhance performance by aligning with the body's circadian rhythm.

Environmental monitoring
Lets you remotely monitor and manage temperature, humidity, and noise levels across your offices and optimize conditions for employee well-being and comfort.

Interact Office dashboard
Monitor, manage and optimize lighting across your entire office portfolio from a single Interact Office dashboard. Greater Insight and transparency across your organization enables you to optimize operations and costs while improving sustainability.

Interact Office APIs
Open APIs for third-party software applications enable the integration and utilization of information such as realtime occupancy, with other data sources. And a software development kit (SDK) allows Indoor navigation to be enabled in any third-party apps.
Lighting management
Monitor and manage your lighting across multiple floors, buildings, or campuses – locally or globally.

Lighting asset management
Monitor and manage the performance of your lighting across your entire office.

Benefits:

- Reduce your operational costs by remotely optimizing your lighting through overrides, commissioning, etc.
- Remote diagnostics help you plan maintenance efficiently and detect/respond to faults or outages
- Automatically deploy firmware and software updates and upgrades
- Reduce maintenance costs, no need to replace batteries as sensors are powered from the lighting infrastructure
Energy optimization

Get an in-depth understanding of how lighting energy is being consumed over time across one or multiple sites

Benefits:

• Up to 85% of energy savings from LED lighting, integrated sensor & HVAC integration*

• Use comparative data to benchmark and create opportunities for CO₂ emission reductions and cost savings

• Reduce lighting and other services when they’re not needed via daylight harvesting and occupancy detection

• Qualify your buildings for recognition through Green Certifications for optimizing your energy usage

• Enhance your brand image as a partner in sustainability with the optimization of energy usage

*LBNL, A Meta-Analysis of Energy Savings from Lighting Controls in Commercial Buildings
Scene management

Scene management that lets you set light schedules or dimming programs

**Benefits:**

- Use scheduling and dimming to create a better office environment without wasting energy
- Enhance employee well-being by supporting individually personalized lighting via intuitive apps or by changing lighting parameters
- Provide employees with different light recipes for concentration and brain storming
Space Management

Use occupancy and people counting data from data from the connected lighting system to learn which rooms and areas are occupied and how many people are using those spaces at given times. Optimize how space is utilized based on new insights.

**Benefits**

- Optimize the amount of space per employee by over 35% while improving employee comfort and satisfaction*
- Lower your real estate costs by effectively monitor the space being used in your office building or sites
- Drive strategic decisions for your building space based on data rather than assumptions
- Determine granular utilization information for workstations
- Use data to plan for the future
- Plan for right sizing of meeting and collaborative spaces with people counting data

Kiosk App for Indoor Navigation

Kiosk application allows employees or guests within your office access to a map of your building and/or floor to easily identify and search for locations.

Benefits:

- Uses lighting infrastructure and real-time occupancy data to guide your employees wherever they need to go.
- Enhance efficiency amongst your building occupants through streamlining the search process for points of interest, like meeting rooms, elevators, dining areas, etc.
- Interactive touchscreen enables building occupants to search for points of interest and reserve desks, providing them with the tools to improve their productivity.
Workspace App for Indoor Navigation and Scene Management

Workspace application gives employees the option to utilize the functionality of the Kiosk Application on their smart phones with the workspace app. Use the app to enhance employee well-being by supporting individually personalized lighting for concentration and brainstorming. Aid employee efficiency by providing them the ability to easily search for desks, book meeting rooms, and locate other important points of interest all from their smart phone.

Benefits:

- Strengthen your brand as you demonstrate that your business puts employees in control of their environment
- Increase employee efficiency with a personalized App experience to aid in daily activities like booking a meeting or workspace
Environmental monitoring
Remotely monitor and manage temperature and humidity levels across your offices.

Benefits:
- Collect data on temperature and humidity levels in the office via sensors embedded in the connected lighting system
- Ensure the optimal office environment to help keep employees healthy, comfortable and productive

Bio-adaptive lighting
Adjust light intensity and color temperatures to help enhance well-being or performance.

Benefits:
- Use different levels of light intensity and color temperatures to get the best out of your biggest investment: your people
- Support well-being, help to energize staff and enhance performance by aligning lighting with the body’s circadian rhythm
- Contribute to concentration or creativity with activity focused light recipes
The building blocks of a connected landscape

The system architectures of both the wired and wireless offerings are shown on the next spread, but here is a close up look at the building blocks of Interact Office. Whether your need is to make your existing space smart or wire a new business from scratch, Interact Office is your solution.

<table>
<thead>
<tr>
<th>IoT devices</th>
<th>Wired (PoE)</th>
<th>Wireless</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occupancy and light sensors</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Temperature and humidity sensors</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>People counting sensor</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Control gear</th>
<th>Wired (PoE)</th>
<th>Wireless</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building connectivity bridge</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Wireless gateway</td>
<td>✓</td>
<td></td>
</tr>
</tbody>
</table>

| Ethernet gateway - provides a multipurpose Ethernet connection to a lighting control system. It supports access to the connected lighting via an app and web interface. | | ✓ |

| PoE switch - provides electricity to the luminaires and routes sensor data within the connected lighting system. | | |

| Connected lighting server - collects, stores and processes all information about the connected lighting system. | | |

<table>
<thead>
<tr>
<th>User interfaces</th>
<th>Wired (PoE)</th>
<th>Wireless</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antumbra control panels</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Wireless switches</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Interact-ready wireless luminaires provide illumination and enable the digital canopy. Sensors may be integrated to measure occupancy rates, daylight levels, and temperature.</td>
<td></td>
<td>✓</td>
</tr>
</tbody>
</table>

| Interact-ready PoE luminaires transmit low voltage power over existing Ethernet cables to operate the luminaires, while high volumes of data are sent and collected. | | |

<table>
<thead>
<tr>
<th>Software</th>
<th>Wired (PoE)</th>
<th>Wireless</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interact Office software, with graphic user interface captures all data from luminaires to provide a performance report card that can support informed business decisions.</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

| IoT apps | | ✓ |

Allow users to control the lighting in the space, and use insights to create a workspace that truly meets your business needs.
Interact Office wired (PoE)
System architecture ideal for new construction and deep renovation

Power over Ethernet (PoE) technology is one of the key avenues of connected lighting systems that can help your building to be more smart and efficient. In PoE technology, low voltage power is transmitted over ethernet cables to operate luminaires as well as send and collect high volumes of data.
Interact Office wireless is perfect for remodeling of your space or when running new wiring is not ideal. It utilizes a lean on-site hardware infrastructure that allows for future upgrades and expansion. It functions via a cloud-based system enabling virtually unlimited growth of connected sites and data flow.
Creating a sustainable office building

The vision: The Edge is an innovative, multi-tenant office building in the Zuidas business district in Amsterdam. The project’s main design goal was to create an intuitive, comfortable, and productive environment for employees that could serve as inspiration for sustainable building designs around the world.

The solution: Working closely with a Dutch real-estate business and the lead tenant, Deloitte, we delivered a connected lighting system using cutting-edge IoT technologies. This enables data collection and insight over customized software applications, which can be used to enhance the flexibility of the open-plan office. Since moving to the Edge, Deloitte has seen a fourfold increase in applications for job vacancies.

"The Edge is now the cheapest office in the world for Deloitte. They have added nearly 1,000 workers to the space and have four times more applicants than before."

Erik Ubels, former CIO, Deloitte

"Innovation is our highest priority and we want to raise the bar in terms of data analysis, delivering new insight into the use of the office space. It shows how we can reduce CO₂ emissions from buildings and create a more sustainable world."

– Eric Ubels, former CIO, Deloitte
Maximizing performance through connected lighting

The vision: HBMSU aims to provide the smartest learning ecosystem among all education institutions world-wide. With technology forming the basis for instructional delivery, it is the catalyst for creating a smart and adaptive learning environment. The university is also supporting the government’s vision for Dubai to be the smartest city in the world.

The solution: To achieve their goal, the university was equipped with state-of-the-art connected LED lighting with embedded sensors, managed and controlled by Interact Office software. Notably, the university does not have any light switches. All lighting is controlled either via a smartphone app, by motion sensors or through a central management system. The lighting also automatically adjusts to outdoor light levels.

"Being the first university in the world to have a smart lighting system will better equip us to deliver highly personalized learning experiences"

Dr. Mansoor Al Awar, Chancellor Hamdan Bin Mohammed Smart University

Hamdan Bin Mohammed Smart University

United Arab Emirates


The Interact Office software system is integrated with the university’s building management system so that all building systems work together seamlessly. Sensors detect presence and the lights switch on as students enter the room. Once students vacate the room, the HVAC and lighting are switched off.

600 connected luminaires
Up to 60% reduction in connected load
Real-time indoor positioning data helps students find available rooms or lead them to their classes
15% saved on energy bill
## Compatible lighting

<table>
<thead>
<tr>
<th>LEDALITE by ☞Ignify</th>
<th>Luminaire Family (click name for details)</th>
<th>InterAct Office Wired (PoE)</th>
<th>InterAct Office Wireless*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ArcForm</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>BoldPlay</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>FloatPlane</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Sona</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>SilkSpace and SilkSpace definition</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>TruGroove recessed</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td></td>
<td>TruGroove suspended</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>TruGroove recessed micro</td>
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<td>✓</td>
</tr>
<tr>
<td></td>
<td>EyeLine**</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>ModiFly</td>
<td>✓</td>
<td>✓</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Day-Brite by ☞Ignify</th>
<th>Luminaire Family (click name for details)</th>
<th>InterAct Office Wired (PoE)</th>
<th>InterAct Office Wireless*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ClearAppeal</td>
<td>✓</td>
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</tr>
<tr>
<td></td>
<td>DualLED</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>EvoGrid</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>FluxGrid</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>SofTrace LED</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>FluxStream strip</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>FluxStream industrial</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>FluxStream wraparound</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

- ✓ Option is mentioned on the spec sheet
- ✓ Option is not on the spec sheet but can be implemented as ETO

<table>
<thead>
<tr>
<th>LIGHTOLIER by ☞Ignify</th>
<th>Luminaire Family (click name for details)</th>
<th>InterAct Office PoE</th>
<th>InterAct Office Wireless*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Calculite gen3**</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td></td>
<td>LyteProfile**</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>EasyLyte**</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PHILIPS</th>
<th>Luminaire Family (click name for details)</th>
<th>InterAct Office PoE</th>
<th>InterAct Office Wireless*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EvoKit</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MasterConnect TLED</td>
<td>✓</td>
<td></td>
</tr>
</tbody>
</table>

Don’t see the product you’re looking for? Contact enterprise@signify.com to discuss your project needs.

* Only FluxGrid, EvoGrid and EvoKit are considered as a standard offering, all other supported offerings are considered custom with longer lead times.
** Sensor is remote.
Signify Lighting Services

Lighting for your business, made easy

Signify is leading the way with customized lighting services that provide the quality of light your business deserves. We offer various packages of services to ensure we can provide just what you need. See a summary here, and explore them at www.signify.com/global/lighting-services

Professional Services

Whether you’re updating your luminaires or undertaking a complete system redesign, we can help transform your lighting to work for both you and your business.

Lifecycle Services

Lighting is an important part of your business. That’s why we offer customized maintenance plans to keep your lighting system working at its best over time.

Managed Services

From the initial design and installation to operation and maintenance, we’ve got you covered. You can focus on what you’re best at – taking care of your business.

How do I get Interact?

The Interact team is anxious to help you begin the journey towards optimizing your operations, enhancing building and employee performance, and helping to increase employee engagement and well-being. Take the first step today!

Request further information, a quote, webinar, or pilot: interact-lighting.com/en-us/get-in-touch
Find out how Interact can transform your business

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