# Day-Brile rनl 

by ©()ignify

## FBY LED High bay

Day-Brite / CFI FBY LED high bay provides versatility in form and function. With a wide range of lumen packages and accessories available, this luminaire can be used in many different applications ranging from warehouses and manufacturing facilities to retail outlets and school gymnasiums.

| Project: |  |
| :--- | :--- |
| Location: |  |
| Cat.No: |  |
| Type: |  |
| Lumens: |  |

Example: FBY24L840-UNV-LCA
Ordering guide

| Voltage |  | Options |  |
| :---: | :---: | :---: | :---: |
| UNV | Universal | WP6 ${ }^{2,4}$ | Wired 6' 6 /3 cord \& NEMA twist lock plug |
|  | voltage | WP6/4 ${ }^{4}$ | Wired 6' 16/4 cord and NEMA twist lock plug for line voltage plus unswitched hot for BSL10LST |
|  | 120- | WC6 ${ }^{4}$ | Wired 6' 16/3 cord |
| 120 | 277 V 120 V | WP6D ${ }^{2,4}$ | Wired 6' $16 / 3$ cord \& NEMA twist lock plug for line voltage and wired 6' 16/3 cord and plug for dimming control |
| 208 | 208 V | WC6/43,4 | Wired 6' $16 / 4$ cord for line voltage plus unswitched hot for BSL10LST |
| 240 | 240 V | WC6/5 ${ }^{3,4}$ | Wired 6' 18/5 cord for line voltage plus 0-10V dimming |
| 277 | 277 V | WC6/6 ${ }^{3,4}$ | Wired 6' 18/6 cord for line voltage plus unswitched hot for BSL10LST plus 0-10V dimming |
| 347 | 347 V | LCA | Clear acrylic lens |
| 480 | 480 V | LFA | Frosted acrylic lens |
|  |  | SWZCSH ${ }^{6,8}$ | Interact Pro scalable high bay sensor w/integral daylight \& occupancy sensing, advanced grouping w/dwell time |
|  |  | SNH200 ${ }^{6}$ | Integral EasySense occupancy \& daylight sensor, with advanced SpaceWise type wireless grouping |
|  |  | MD360 ${ }^{5}$ | $360^{\circ}$ Motion detector (ON/OFF) |
|  |  | MD360D ${ }^{5}$ | $360^{\circ}$ Motion detector (ON/DIM to 10\%) |
|  |  | BSL10LST ${ }^{3}$ | Factory wired Philips Bodine integral emergency pack, nominal 1100 to 1400 lumens |
|  |  | ER100 ${ }^{\text {9,10,11 }}$ | UL924 listed sensor bypass relay, factory installed between driver \& sensor (interact Pro compatible) |
|  |  | ER100/HVPS ${ }^{9,10,11}$ | UL924 listed sensor bypass relay, factory installed between driver \& sensor for 347V Power Sense (interact Pro compatible) |
|  |  | ER100/HVPI ${ }^{9,10,11}$ | UL924 listed sensor bypass relay, factory installed between driver \& sensor for 347V Power Interrupt (interact Pro compatible) |
|  |  | GTD/E ${ }^{9}$ | UL924 listed Bodine GTD factory installed on driver input |
|  |  | BAC ${ }^{12}$ | Meets the requirements of the Buy American Act of 1933 (BAA) |

1 Nominal delivered lumens at $25^{\circ} \mathrm{C}$ ambient
2 Must specify line voltage
3 Order proper cord option for dimming or emergency
$46^{\prime}$ is standard cord length. For optional $10^{\prime}$ ', 15 ', or 20 ' cord length, replace the " 6 " in the option code with the desired length.
5 Not for use with SNH2OO or Interact options.
6 High bay motion detector. Motion sensing zone is extremely limited if used below $15^{\prime}$ mounting height. Consider adding LCN3120/05 battery powered sensor to the install for better coverage at lower heights.
7 For areas where luminaires are subject to high impact (gymnasiums, etc), rigid pendant hanging is not suggested. Use hook or cable/chain assembly for mounting in these areas.
8 Must order IRT9015 Interact commissioning remote with each system order.
9 Must be installed in conjunction with a UL1008 device.
10 Must be ordered with an integral sensing option.
1130,000 lumens maximum
12 Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.
13 Consult Signify to confirm whether specific accessories are BAA-compliant.

## General Notes

- All options factory installed.
- All accessories are field installed.
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility



## Accessories ${ }^{13}$ (order separately)

- HNH5-VHOOK 54" chains \& V hooks
- HCH5-VHOOK 5' cables \& $V$ hooks
- HCH10-VHOOK 10' cables \& V hooks
- HCH15-VHOOK 15 ' cables $\& V$ hooks
- HCH2O-VHOOK 20' cables \& $V$ hooks
- FBY-WG
- FBX-SLCA-2N
- FBX-SLFA-2N
- FBX-SLCA-2W
- FBX-SLFA-2W


FBY-PENHGR




- FBY-PENHGR ${ }^{7}$ Pendant hanger (adds 3 " to height) Wire guard (order 2 for FBY36, FBY48, \& FBY60 Clear acrylic snap lens
Frosted acrylic snap lens
Clear acrylic snap lens for FBY36, FBY48, \& FBY60
Frosted acrylic snap lens for FBY36, FBY48, \& FBY60
interact ready.


## FBY LED high bay

## 12,000, 18,000, 24,000, 30,000 36,000, 48,000, \& 60,000 lumens

## Application

- This luminaire can be used to illuminate retail, cold storage, manufacturing, warehousing and many other large indoor spaces with control and precision.


## Construction/Finish

- Metal housing and reflectors provide excellent thermal transfer to extend component life.
- End holes to attach V hooks for chain or cable hanging.
- Cable/chain mounting capability is standard (ordered separately or furnished by others). Accessories are available for other mounting methods
-7/8" K.O. at each end of luminaire for wiring or motion detector.
- Polyester powder finish for excellent impact and corrosion resistance.
- LED light engines and drivers are field replaceable.


## Wireless Controls Options

Interact Pro scalable sensor for Foundation, Advanced \& Enterprise tiers (SWZCSH and an evolution of SpaceWise)

- SWZCSH is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) \& BlueTooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.


## - Compatible with:

- UID8451/10 wireless dimmer switch
- SWS200 wireless scene switch
- Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
- Battery powered IP42 presence \& daylight sensor OCC-DL sensor IA CM IP42 WH
- LCN3110/05 battery powered IP65 presence sensor OCC sensor IA CM IP65 WH
- LCN3120/05 battery powered IP65 presence \& daylight sensor OCC-DL sensor IA CM IP65 WH
- For more information on Interact Pro visit:
www.interact-lighting.com/interactproscalablesystem
- 5 Year Limited Warranty, www.signify.com/warranties
- Components are RoHS compliant.
- L70 LED predicted lumen maintenance $>100,000$ hours
- cETLus listed to UL 1598 standards. Suitable for use in damp locations and $-40^{\circ}$ to $45^{\circ} \mathrm{C}$ ambient. ( $0^{\circ}$ to $45^{\circ} \mathrm{C}$ for BSL10LST option)
- Dimming drivers are standard. Control is 0-10V DC.
- Optional motion detector.
- DLC Listed. Please check the DLC Qualified Products List to confirm (www.designlights.org/QPL).
- 6KV surge protection standard.


## SNH200 EasySense

- Philips field apps allow programming of occupany \& daylight sensing parameters and fine-tuning of light levels during installation. It can also be used for grouping of fixtures.
- Download "Philips field apps" from the Google Play Store.
- Register for the commissioning app at http://registration.componentcloud. philips.com/appregistration/.
- The app works on certain Android phones with NFC or IR. See Recommended Phones and the EasySense App User Manual in the download section at http://www.usa.lighting.philips.com/products/ lighting-components/easysense and follow the "View Downloads" link to register for access to the download area. Navigate to Connected-LightingComponents and then Philips-EasySense-Sensors to find downloads.


## Emergency Options (ER100)

- Power Sensing (Factory default) - Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to $100 \%$ output
- Power Interruption Detection (Field option) - Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100\% output
- 347V may require step-down transformer and must be ordered indicating Power Sensing or Power Interruption Detection


## FBY LED high bay

12,000, 18,000, 24,000, 30,000 36,000, 48,000, \& 60,000 lumens

|  | Interact Pro scalable system |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  | Foundation | Advanced | Enterprise |
| Dimming, grouping, and zoning | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Bluetooth and ZigBee enabled | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Motion sensing and daylight harvesting | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Integration with 0-10V and phase dimming fixtures | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Code compliance | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Granular dimming and dwell time | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Energy reporting and monitoring |  | $\checkmark$ | $\checkmark$ |
| Scheduling |  | $\checkmark$ | $\checkmark$ |
| Demand response |  | $\checkmark$ | $\checkmark$ |
| BMS integration (BACnet) |  |  | $\checkmark$ |
| Floor plan visualization |  |  | $\checkmark$ |
| loT sensors for wellness |  |  | $\checkmark$ |
| IoT Apps for productivity |  |  | $\checkmark$ |

Currently supported maximum system size
To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.

| System level |  |
| :--- | :--- |
| Total number of gateways | Unlimited |
| Total number of devices | 200 per network |
| - luminaires with <br> integrated sensors | 150 |
| - smart TLEDS | 150 |
| Total number of ZGP devices <br> (sensors and switches) | 50 |
| . sensors | 30 |
| . switches | 50 |
| zones and groups | 64 |
| Group level | 40 (recommended 25) |
| Recommended number of lights | 5 |
| Number of ZGP devices | 16 |
| Number of scenes |  |



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DImensions


## FBY LED high bay <br> 12,000, 18,000, 24,000, 30,000 36,000, 48,000, \& 60,000 lumens

Photometry

LED high bay FBY, general distribution, 24,000 nominal delivered lumens


LED high bay FBY, general distribution, 24,000 nominal delivered lumens


## FBY LED high bay

## 12,000, 18,000, 24,000, 30,000 36,000, 48,000, \& 60,000 lumens

Photometry (continued)

LED high bay FBY, general distribution, 24,000 nominal delivered lumens, frosted acrylic lens


| Catalog No. | Delivered Lumens | Input Watts* | Efficacy | Uplight\% |
| :---: | :---: | :---: | :---: | :---: |
| FBY12L840-UNV | 12139 | 88 | 138 | 2.7 |
| FBY12L840-UNV-LCA | 11689 | 88 | 133 | 3.5 |
| FBY12L840-UNV-LFA | 11085 | 88 | 126 | 5.6 |
| FBY18L840-UNV | 18797 | 133 | 142 | 2.4 |
| FBY18L850-UNV | 18797 | 133 | 142 | 2.4 |
| FBY18L840-UNV-LCA | 18037 | 133 | 136 | 3.4 |
| FBY18L840-UNV-LFA | 16889 | 133 | 127 | 5.1 |
| FBY24L840-UNV | 24748 | 177 | 140 | 3.5 |
| FBY24L840-UNV-LCA | 23532 | 176 | 133 | 3.3 |
| FBY24L840-UNV-LFA | 22055 | 176 | 125 | 5.0 |
| FBY30L840-UNV | 30435 | 208 | 146 | 2.3 |
| FBY30L840-UNV-LCA | 29316 | 209 | 140 | 4.0 |
| FBY30L840-UNV-LFA | 27578 | 208 | 132 | 4.6 |
| FBY36L840-UNV | 39683 | 268 | 148 | 2.6 |
| FBY36L840-UNV-LCA | 37844 | 267 | 142 | 3.5 |
| FBY36L840-UNV-LFA | 35176 | 269 | 131 | 5.1 |
| FBY48L840-UNV | 50849 | 356 | 143 | 2.7 |
| FBY48L840-UNV-LCA | 48521 | 355 | 137 | 3.5 |
| FBY48L840-UNV-LFA | 45050 | 355 | 127 | 5.1 |
| FBY60L840-UNV | 62499 | 423 | 148 | 2.7 |
| FBY60L840-UNV-LCA | 59257 | 420 | 141 | 3.5 |
| FBY60L840-UNV-LFA | 55837 | 421 | 133 | 3.9 |

* 347 V and 480 V models have the same input watts.


## (s)ignify

