

# PHILIPS

## Recessed

### EvoKit Click LED Retrofit Kit 1x4



Project: \_\_\_\_\_

Location: \_\_\_\_\_

Cat.No: \_\_\_\_\_

Type: \_\_\_\_\_

Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_

Notes: \_\_\_\_\_

Philips EvoKit click LED retrofit kit is an aesthetically pleasing and energy efficient LED retrofit kit designed to deliver a refreshed sleek and modern look with minimal material waste. Not only does it offer energy savings<sup>1</sup>, it also helps reduce maintenance and installation costs due to its modular design, bulk packaging, and long LED lifetime. Additional information can be found at [www.philips.com/evokit](http://www.philips.com/evokit). Products can be found on the DLC QPL by searching the 6 digit product number.

#### Ordering guide (continued on next page)

| Product Number                                 | Description                             | Watts <sup>3</sup> | Volts   | Lumen Maint. (Hrs.) <sup>2</sup> | Approx. Lumens <sup>3</sup> | Color Temp. (K) | Efficacy | Dim  | Pkg         | DLC Code |
|--|---|--------------------|---------|----------------------------------|-----------------------------|-----------------|----------|------|-------------|----------|
| <b>CLKE (Energy Efficient)</b>                 |   |                    |         |                                  |                             |                 |          |      |             |          |
| 523605   | EvoKit CLKE 1x4 32L 24W 840 UNV 0-10 P4 | 24W                | 120-277 | 70,000                           | 3200                        | 4000            | 140      | 0-10 | 4 Pack      | PULZ4OCY |
| 521260   | EvoKit CLKE 1x4 23L 16W 835 UNV 0-10 P1 | 16W                | 120-277 | 70,000                           | 2300                        | 3500            | 144      | 0-10 | Single Pack | PD9TLK7C |
| 521278   | EvoKit CLKE 1x4 23L 16W 840 UNV 0-10 P1 | 16W                | 120-277 | 70,000                           | 2300                        | 4000            | 149      | 0-10 | Single Pack | P088231I |
| 521286   | EvoKit CLKE 1x4 32L 24W 835 UNV 0-10 P1 | 24W                | 120-277 | 70,000                           | 3200                        | 3500            | 140      | 0-10 | Single Pack | POBYGPA0 |
| ◆ 520239                                       | EvoKit CLKE 1x4 32L 24W 840 UNV 0-10 P1 | 24W                | 120-277 | 70,000                           | 3200                        | 4000            | 145      | 0-10 | Single Pack | PULZ4OCY |
| <b>CLKE SR (Energy Efficient Sensor Ready)</b> |   |                    |         |                                  |                             |                 |          |      |             |          |
| 523613   | EvoKit CLKE 1x4 32L 25W 840 UNV SR P4   | 25W                | 120-277 | 70,000                           | 3200                        | 4000            | 137      | SR   | 4 Pack      | PXX1QGV3 |
| 521294   | EvoKit CLKE 1x4 32L 25W 835 UNV SR P1   | 25W                | 120-277 | 70,000                           | 3200                        | 3500            | 132      | SR   | Single Pack | P5DLLIVX |
| 521328   | EvoKit CLKE 1x4 32L 25W 840 UNV SR P1   | 25W                | 120-277 | 70,000                           | 3200                        | 4000            | 137      | SR   | Single Pack | PXX1QGV3 |
| <b>CLKE IAP</b>                                |   |                    |         |                                  |                             |                 |          |      |             |          |
| 523845   | EvoKit CLKE 1x4 32L 25W 840 UNV IAP P4  | 25W                | 120-277 | 70,000                           | 3200                        | 4000            | 137      | IAP  | 4 Pack      | P536CGEE |
| 523175   | EvoKit CLKE 1x4 32L 25W 835 UNV IAP P1  | 25W                | 120-277 | 70,000                           | 3200                        | 3500            | 132      | IAP  | Single Pack | PLBSWJJC |
| 523191   | EvoKit CLKE 1x4 32L 25W 840 UNV IAP P1  | 25W                | 120-277 | 70,000                           | 3200                        | 4000            | 137      | IAP  | Single Pack | P536CGEE |

See footnotes on the last page.

◆ Made to stock product (Contact your Philips sales representative for stock availability and lead time).

**Attention Interact Pro users:** Please familiarize yourself with the Interact pro system before beginning your project installation. It is important that the gateway is powered before the Interact ready EvoKits are installed. Design guides and tutorials are available at: <https://www.interact-lighting.com/en-us/what-is-possible/interact-pro>.

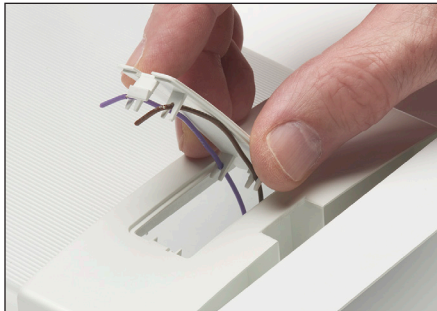


**interact**  
ready.

# EvoKit click LED retrofit kit 1x4

## EvoKit Sensor Ready (SR) with Philips Advance Xitanium SR for connected lighting solutions

EvoKit SR is a new platform that allows users to choose different control platforms to suit their needs and budget; from simple occupancy and daylight sensing to cloud-connected data-reporting sensing. This empowers users to fine-tune their energy use for reduced energy costs. Various Interact, Philips SpaceWise, and EasySense controls are available. Please refer to Philips.com/EvoKit for details. Contact your Philips representative for a current list of additional approved sensors. Sensors are connected in the field with just a few simple steps:



Step 1: EvoKit click SR is shipped with a plate covering the sensor hole. There are two wires secured to the back of the plate. The plate can be removed before or after you install the EvoKit click SR in the ceiling.



Step 2: Remove the two wires that were secured to the back of the plate and insert them in an approved sensor for use with EvoKit. They are not polarity sensitive.



Step 3: An adapter bracket is shipped with every EvoKit click SR. Install this adapter ring to the sensor and make sure it is securely fit. Then place the sensor and adapter bracket into the EvoKit SR endcap.

| Commercial Product Name                            | Order Code |
|--|------------|
| EasySense EVO200                                   | 516575     |
| Philips single rocker self powered wireless switch | UID8451/10 |

\* EVO200 comes pre-installed in the Gen4 bracket. To install in EvoKit click, this bracket will need removed in the field. Please see [www.philips.com/evokit](http://www.philips.com/evokit) for instructions on removing bracket.

## EvoKit bulk pack

EvoKit click is designed to reduce the hidden environmental costs of lighting retrofits. With newly designed multi-unit packaging for EvoKit click, cardboard waste from the 2x4 and 2x2 troffer kits has been reduced by 66% and 77% respectively compared to its predecessor, EvoKit Gen4.

Previously, only 24 kits were able to fit on a single pallet, but, with the new multi-unit packaging, 60 2x4 kits fit on one pallet. This allows for 3,840 units to be fully loaded onto a 53' truck compared to 1,536 units of the previous generation. This results in 2.5x better transportation utilization and storage capacity with the EvoKit click.



# EvoKit click LED retrofit kit 1x4

## Application

- A highly efficient, visually comfortable, architecturally styled LED retrofit kit designed to replace recessed linear fluorescent troffers.
- Unique modular design offers refreshing new look in the ceiling when compared to traditional fluorescent luminaires.
- Single light bar combined with slanted troffer helps reflect light to reduce glare and provide uniform light distribution making it ideal for applications such as offices, schools, healthcare and retail.
- Excellent color rendering with a CRI above 80.
- Extremely high efficacies up to 149 lumens per watt.
- LEDs are an excellent source for use with controls since dimming or frequent switching does not degrade the performance or life of the source.
- Designed for use with standard grid (NEMA "G") or Narrow Grid (NEMA "NFG") ceiling T-Grids.
- High efficiency source and luminaire design help significantly reduce energy consumption and more easily comply with known energy codes.
- Helps meet regulation requirements such as ASHRAE 90.1 and Title 24 when matched with suitable controls.
- EvoKit click is designed for use in most recessed troffers. Some existing fixtures may have features which interfere. Please refer to schematics below.

## Enclosure Construction/Finish

- Simple design allows for quick installation in existing luminaire without the need to break the ceiling plenum.
- Constructed using galvanized steel which helps fight rust and makes for more durable product.
- Integrated securement tabs for securement to existing troffer housing.
- Minimum depth of only 3" necessary to allow proper clearance and installation of the EvoKit.
- Retrofit kit is powder coated after fabrication with high quality, durable finish to ensure no unfinished edges and avoid future potential of corrosion.
- Components fit together easily without the need for tools during installation. In addition the light module can be removed from below the ceiling for convenient maintenance and upgrades.

## Electrical

- Multiple driver options available
  - Philips Advance CertaDrive drivers with 0-10V dimming allow for maximum fixture efficiency and provide 10% dimming.
  - Philips Advance Xitanium SR drivers allow for connectivity options to multiple platforms.
- 5-year limited warranty includes all components of the retrofit kit, including driver, LED board and nonelectrical components."

- Listed with UL and Design Lights Consortium<sup>†</sup> to ensure quality performance and safety standards are met.
- High efficiency LEDs have a minimum 70,000 hour rated life (L<sub>70</sub>).

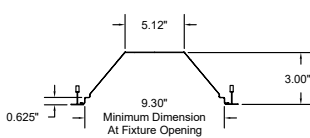
## Accessories

- Suitable for use with 503441 emergency back up. The 503441 needs to be field installed in the existing troffer according to the field install instructions provided.
- Suitable for use with a wide range of control systems.
- Earthquake cables available for additional securement to the existing troffer for areas where required.
- EvoKit accessory replacement kit comes with quarter turns, quick disconnects, and spare sensor brackets.

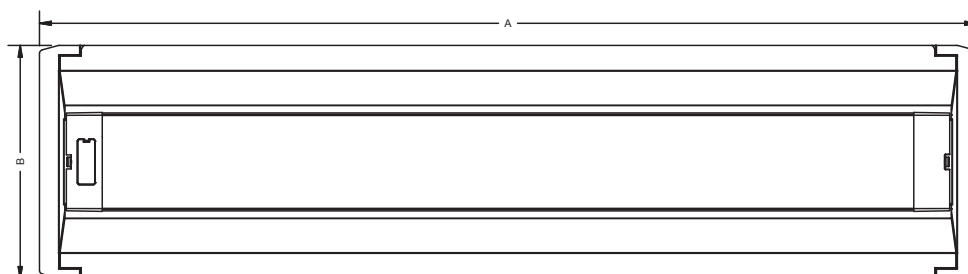
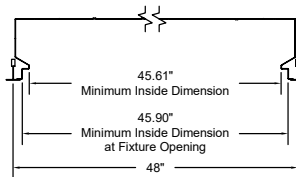
| Prod. No. | Description                                     |
|-----------|---|
| 502435    | Earthquake cable 317mm                          |
| 503441    | EvoKit field installed emergency battery backup |
| 522094    | EvoKit accessory replacement kit                |

## Dimensions 1x4

EvoKit click was designed to fit into most parabolic and lensed-recessed troffers with minimum dimensional requirements shown below. Philips recommends a sample installation prior to ordering project quantities to ensure compatibility. Philips EvoKit click retrofit kits are not compatible with air handling fixtures.



\*\*Please Note: When installing emergency lighting, a greater minimum depth may be required.



| A<br>Face Plate<br>Length | B<br>Face Plate<br>Width | C<br>Height |
|---------------------------|--------------------------|-------------|
| 47.83"                    | 23.9"                    | 2.99"       |

# EvoKit click LED retrofit kit 1x4

## EvoKit CLKE 1x4 23L 16W 835 UNV 0-10 P1, 2,368 delivered lumens

|             | 521260 | Candlepower |     |     |       |         |
|-------------|--------|-------------|-----|-----|-------|---------|
|             |        | Angle       | End | 45  | Cross | Back-45 |
| Catalog No. | 521260 | 0           | 731 | 731 | 731   | 731     |
| Test No.    | 21260  | 5           | 715 | 730 | 747   | 726     |
| S/MH        | 1.4    | 15          | 678 | 715 | 746   | 704     |
| Lamp Type   | LED    | 25          | 607 | 681 | 730   | 666     |
| Lumens/Watt | 144    | 35          | 514 | 628 | 689   | 613     |
| Input Watts | 16     | 45          | 411 | 551 | 614   | 535     |
|             |        | 55          | 310 | 449 | 507   | 436     |
|             |        | 65          | 211 | 328 | 371   | 319     |
|             |        | 75          | 113 | 193 | 199   | 189     |
|             |        | 85          | 27  | 43  | 34    | 43      |

Comparative yearly lighting energy cost per 1000 lumens - \$1.74 based on 3000 hours and \$0.08/kWh

The photometric results were obtained in the Design Lights Consortium Test Lab which is NVLAP accredited by the National Institute of Standards and Technology

Photometric values based on tests performed in compliance with LM-79

| Coefficients of Utilization                          |     |     |     |    |     |     |     |    |     |     |
|--|-----|-----|-----|----|-----|-----|-----|----|-----|-----|
| EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20) |     |     |     |    |     |     |     |    |     |     |
| pcc  | 80  |     |     | 70 |     |     | 50  |    |     | 50  |
|  | pw  | 70  | 50  | 30 | 70  | 50  | 30  | 70 | 50  |     |
| RCR  |     |     |     |    |     |     |     |    |     |     |
| 0  | 118 | 118 | 118 |    | 115 | 115 | 115 |    | 111 | 111 |
| 1  | 108 | 103 | 98  |    | 106 | 101 | 96  |    | 96  | 93  |
| 2  | 97  | 90  | 82  |    | 94  | 88  | 81  |    | 83  | 79  |
| 3  | 89  | 78  | 69  |    | 86  | 77  | 68  |    | 73  | 67  |
| 4  | 81  | 68  | 59  |    | 79  | 68  | 58  |    | 65  | 57  |
| 5  | 75  | 61  | 52  |    | 72  | 59  | 52  |    | 57  | 51  |
| 6  | 68  | 55  | 46  |    | 67  | 54  | 46  |    | 52  | 45  |
| 7  | 64  | 50  | 40  |    | 61  | 48  | 40  |    | 47  | 40  |
| 8  | 58  | 46  | 36  |    | 57  | 45  | 36  |    | 42  | 35  |
| 9  | 55  | 41  | 33  |    | 54  | 40  | 33  |    | 40  | 33  |
| 10   | 52  | 38  | 29  |    | 51  | 38  | 29  |    | 36  | 29  |

| Light Distribution |        |           |       | Average Luminance |      |       |     |
|--------------------|--------|-----------|-------|-------------------|------|-------|-----|
| Degrees            | Lumens | % Linaire | Angle | End               | 45'  | Cross | 45' |
| 0-30               | 578    | 25.5      | 45    | 2190              | 2935 | 3271  |     |
| 0-40               | 958    | 42.2      | 55    | 2036              | 2948 | 3331  |     |
| 0-60               | 1742   | 76.8      | 65    | 1877              | 2923 | 3306  |     |
| 0-90               | 2269   | 100.0     | 75    | 1648              | 2806 | 2899  |     |
|                    |        |           | 85    | 1171              | 1837 | 1482  |     |

## EvoKit CLKE 1x4 32L 24W 835 UNV 0-10 P1, 3,406 delivered lumens

|             | 521286 | Candlepower |      |      |       |         |
|-------------|--------|-------------|------|------|-------|---------|
|             |        | Angle       | End  | 45   | Cross | Back-45 |
| Catalog No. | 521286 | 0           | 1049 | 1049 | 1049  | 1049    |
| Test No.    | 21286  | 5           | 1025 | 1044 | 1072  | 1043    |
| S/MH        | 1.4    | 15          | 967  | 1019 | 1071  | 1018    |
| Lamp Type   | LED    | 25          | 862  | 967  | 1049  | 970     |
| Lumens/Watt | 140    | 35          | 729  | 890  | 990   | 896     |
| Input Watts | 24     | 45          | 577  | 777  | 881   | 787     |
|             |        | 55          | 434  | 629  | 723   | 642     |
|             |        | 65          | 296  | 456  | 525   | 469     |
|             |        | 75          | 160  | 266  | 280   | 276     |
|             |        | 85          | 38   | 59   | 50    | 66      |

Comparative yearly lighting energy cost per 1000 lumens - \$1.80 based on 3000 hours and \$0.08/kWh

The photometric results were obtained in the Design Lights Consortium Test Lab which is NVLAP accredited by the National Institute of Standards and Technology

Photometric values based on tests performed in compliance with LM-79

| Coefficients of Utilization                          |     |     |     |    |     |     |     |    |     |     |
|--|-----|-----|-----|----|-----|-----|-----|----|-----|-----|
| EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20) |     |     |     |    |     |     |     |    |     |     |
| pcc  | 80  |     |     | 70 |     |     | 50  |    |     | 50  |
|  | pw  | 70  | 50  | 30 | 70  | 50  | 30  | 70 | 50  |     |
| RCR  |     |     |     |    |     |     |     |    |     |     |
| 0  | 118 | 118 | 118 |    | 115 | 115 | 115 |    | 111 | 111 |
| 1  | 108 | 103 | 98  |    | 106 | 101 | 96  |    | 96  | 93  |
| 2  | 97  | 90  | 82  |    | 94  | 88  | 81  |    | 83  | 79  |
| 3  | 89  | 78  | 69  |    | 86  | 77  | 68  |    | 73  | 67  |
| 4  | 81  | 68  | 59  |    | 79  | 68  | 58  |    | 65  | 57  |
| 5  | 75  | 61  | 52  |    | 72  | 59  | 52  |    | 57  | 51  |
| 6  | 68  | 55  | 46  |    | 67  | 54  | 46  |    | 52  | 45  |
| 7  | 64  | 50  | 40  |    | 61  | 48  | 40  |    | 47  | 40  |
| 8  | 58  | 46  | 36  |    | 57  | 45  | 36  |    | 42  | 35  |
| 9  | 55  | 41  | 33  |    | 54  | 40  | 33  |    | 40  | 33  |
| 10   | 52  | 38  | 29  |    | 51  | 38  | 29  |    | 36  | 29  |

| Light Distribution |        |           |       | Average Luminance |      |       |     |
|--------------------|--------|-----------|-------|-------------------|------|-------|-----|
| Degrees            | Lumens | % Linaire | Angle | End               | 45'  | Cross | 45' |
| 0-30               | 831    | 25.5      | 45    | 3075              | 4139 | 4693  |     |
| 0-40               | 1378   | 42.3      | 55    | 2848              | 4130 | 4750  |     |
| 0-60               | 2504   | 76.9      | 65    | 2634              | 4068 | 4679  |     |
| 0-90               | 3255   | 100.0     | 75    | 2323              | 3864 | 4077  |     |
|                    |        |           | 85    | 1634              | 2567 | 2174  |     |

## EvoKit CLKE 1x4 32L 25W 835 UNV SR P1, 3,438 delivered lumens

|             | 521294 | Candlepower |      |      |       |         |
|-------------|--------|-------------|------|------|-------|---------|
|             |        | Angle       | End  | 45   | Cross | Back-45 |
| Catalog No. | 521294 | 0           | 1058 | 1058 | 1058  | 1058    |
| Test No.    | 21294  | 5           | 1032 | 1054 | 1081  | 1052    |
| S/MH        | 1.4    | 15          | 972  | 1026 | 1078  | 1025    |
| Lamp Type   | LED    | 25          | 864  | 974  | 1056  | 975     |
| Lumens/Watt | 132    | 35          | 724  | 897  | 999   | 902     |
| Input Watts | 26     | 45          | 572  | 784  | 894   | 794     |
|             |        | 55          | 429  | 639  | 739   | 651     |
|             |        | 65          | 292  | 467  | 539   | 478     |
|             |        | 75          | 158  | 272  | 288   | 283     |
|             |        | 85          | 38   | 59   | 49    | 64      |

Comparative yearly lighting energy cost per 1000 lumens - \$1.80 based on 3000 hours and \$0.08/kWh

The photometric results were obtained in the Design Lights Consortium Test Lab which is NVLAP accredited by the National Institute of Standards and Technology

Photometric values based on tests performed in compliance with LM-79

| Coefficients of Utilization                          |     |     |     |    |     |     |     |    |     |     |
|--|-----|-----|-----|----|-----|-----|-----|----|-----|-----|
| EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20) |     |     |     |    |     |     |     |    |     |     |
| pcc  | 80  |     |     | 70 |     |     | 50  |    |     | 50  |
|  | pw  | 70  | 50  | 30 | 70  | 50  | 30  | 70 | 50  |     |
| RCR  |     |     |     |    |     |     |     |    |     |     |
| 0  | 118 | 118 | 118 |    | 115 | 115 | 115 |    | 111 | 111 |
| 1  | 108 | 103 | 98  |    | 106 | 101 | 96  |    | 96  | 93  |
| 2  | 97  | 90  | 82  |    | 94  | 88  | 81  |    | 83  | 79  |
| 3  | 89  | 78  | 69  |    | 86  | 77  | 68  |    | 73  | 67  |
| 4  | 81  | 68  | 59  |    | 79  | 68  | 58  |    | 65  | 57  |
| 5  | 75  | 61  | 52  |    | 72  | 59  | 52  |    | 57  | 51  |
| 6  | 68  | 55  | 46  |    | 67  | 54  | 46  |    | 52  | 45  |
| 7  | 64  | 50  | 40  |    | 61  | 48  | 40  |    | 47  | 40  |
| 8  | 58  | 46  | 36  |    | 57  | 45  | 36  |    | 42  | 35  |
| 9  | 55  | 41  | 33  |    | 54  | 40  | 33  |    | 40  | 33  |
| 10   | 52  | 38  | 29  |    | 51  | 38  | 29  |    | 36  | 29  |

| Light Distribution |        |           |       | Average Luminance |      |       |     |
|--------------------|--------|-----------|-------|-------------------|------|-------|-----|
| Degrees            | Lumens | % Linaire | Angle | End               | 45'  | Cross | 45' |
| 0-30               | 836    | 25.4      | 45    | 3468              | 4752 | 5415  |     |
| 0-40               | 1386   | 42.2      | 55    | 3205              | 4771 | 5517  |     |
| 0-60               | 2523   | 76.8      | 65    | 2959              | 4729 | 5466  |     |
| 0-90               | 3286   | 100.0     | 75    | 2610              | 4504 | 4772  |     |
|                    |        |           | 85    | 1868              | 2876 | 2418  |     |

# EvoKit click LED retrofit kit 1x4

## Energy saving solution – EvoKit CLKE 1'x4'

### Estimated lighting costs using a standard 3 lamp T8 troffer

|                          |   |            |                              |
|--------------------------|---|------------|------------------------------|
| Present wattage          |   | 59         | W                            |
| × Annual operating hours | = | 4,380      | hrs                          |
|                          |   | 258,420    | Watt-Hours                   |
| ÷ 1,000                  | = | 258.40     | kWh per year                 |
| × kWh rate of \$0.10     | = | \$25.84    | per year                     |
| × 125 fixtures           |   | \$3,230.25 | annual energy cost per space |

### Estimated lighting costs using a Philips 42L 2x4 EvoKit CLKE

|                          |   |            |                              |
|--------------------------|---|------------|------------------------------|
| Present wattage          |   | 24         | W                            |
| × Annual operating hours | = | 4,380      | hrs                          |
|                          |   | 105,120    | Watt-Hours                   |
| ÷ 1,000                  | = | 105.12     | kWh per year                 |
| × kWh rate of \$0.10     | = | \$10.51    | per year                     |
| × 125 fixtures           |   | \$1,314.00 | annual energy cost per space |

**Total estimated annual savings<sup>‡</sup> \$1,916.25**

<sup>‡</sup> Based on 125 fixtures per space operating 4,380 hours a year. 125 fixtures is roughly equivalent to a 10,000 square foot space. kWh rates will vary.

#### FOOTNOTES:

- 1) Please refer to the energy saving chart above for details.
  - 2) L<sub>70</sub> 72,000 hours @ 35°C based on TM21 and LM80.
  - 3) Based on photometric testing consistent with IES LM-79. Actual wattage may differ by +/- 10%. Actual initial lumen output may vary between -10 and +10% of the rated lumens.
- \*\*\* Please visit <http://www.usa.lighting.philips.com/support/support/warranty> for full details.
- † Restrictions on Hazardous Substances (RoHS) is a European directive (2002/95/EC) designed to limit the content of 6 substances [lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE)] in electrical and electrical products. For products used in North America, compliance with RoHS is voluntary and self-certified.
- ‡ Evokit luminaires are Design Lights Consortium qualified. Please see the DLC QPL list for exact catalog numbers (<http://www.designlights.org/QPL>).

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