

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 savings¹, 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.

Products can be found on the DLC QPL by searching the 6 digit product number. Additional information can be found at www.philips.com/evokit.

EvoKit Click 1x4 with 0-10V Dimming ordering guide

Product Number	Description	Watts ³	Volts	Lumen Maint. (Hrs.) ²	Approx. Lumens ³	Color Temp. (K)	Efficacy	Dim	Pkg	DLC Code
CLKE (Energy Efficient)										
523605	EvoKit CLKE 1x4 32L 24W 840 UNV 0-10 P4	24W	120-277	70,000	3200	4000	140	0-10	4 Pack	PLED09EY
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
525287	EvoKit CLKE 1x4 32L 24W 830 UNV 0-10 P1	24W	120-277	70,000	3200	3000	132	0-10	Single Pack	PPTP5DX5

See footnotes on the last page.

Not all product variations listed on this page are DLC qualified. To ensure that a specific model is qualified, visit www.designlights.org/search



EvoKit Click LED retrofit kit 1x4

Evokit Click 1x4 with Interact Pro scalable SWZCS ordering guide

Product Number	Description	Watts ³	Volts	Lumen Maint. (Hrs.) ²	Approx. Lumens ³	Color Temp. (K)	Efficacy	Dim	Pkg	DLC Code
CLKE SWZCS (Energy Efficient Interact Pro scalable)										
114124	EvoKit CLKE 1x4 32L 24W 840 UNV SWZCS P1	24W	120-277	70,000	3200	4000	137	SWZCS	4 Pack	
114116	EvoKit CLKE 1x4 32L 24W 835 UNV SWZCS P1	24W	120-277	70,000	3200	3500	137	SWZCS	Single Pack	

See footnotes on the last page.

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

- SWZCS 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
 - IRT9015 – handheld remote for grouping and configuration(at least one remote required for any SWZCS installation)
- For more information on Interact Pro visit: www.interact-lighting.com/interactproscalablessystem
- For more information on Interact Ready visit: www.philips.com/interact-ready

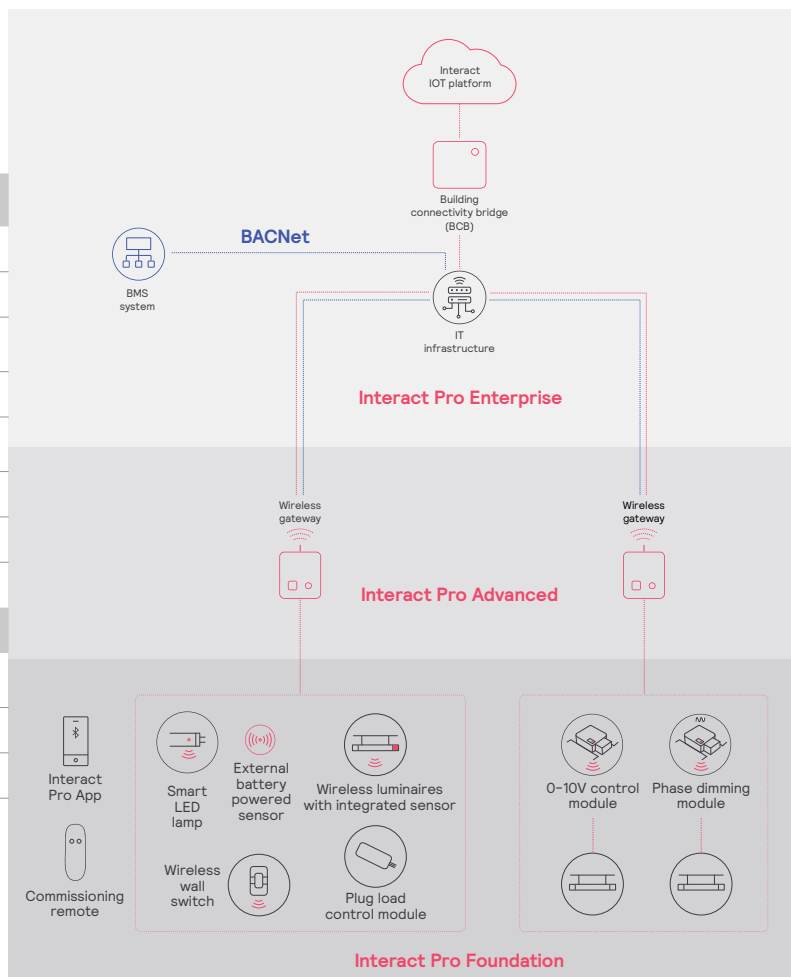
EvoKit Click LED retrofit kit 1x4

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

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 integrated sensors	150
• smart TLEDs	150
Total number of ZGP devices (sensors and switches)	50
• sensors	30
• switches	50
• zones and groups	64
Group level	
Recommended number of lights	40 (recommended 25)
Number of ZGP devices	5
Number of scenes	16



EvoKit Click LED retrofit kit 1x4

EvoKit Click 1x4 with Spacewise SWZDT ordering guide

Product Number	Description	Watts ³	Volts	Lumen Maint. (Hrs.) ²	Approx. Lumens ³	Color Temp. (K)	Efficacy	Dim	Pkg	DLC Code
CLKE SWZDT (Energy Efficient SpaceWise DT)										
523431	EvoKit CLKE 1x4 32L 24W 835 UNV SWZ P1	24W	120-277V	70,000	3200	3500	140	SWZDT	Single Pack	PUDWOZOT
523449	EvoKit CLKE 1x4 32L 24W 840 UNV SWZ P1	24W	120-277V	70,000	3200	4000	145	SWZDT	Single Pack	PF9UBVOK

See footnotes on the last page.

SpaceWise SWZDT

- Standalone daylight and occupancy sensing with advanced grouping, wireless mesh networking and dwell time.
- Commissioning via compatible Android phone and Philips Field App
- Dimming via compatible Zigbee wireless wall switch only (see link below for details)
- Register for the commissioning app at <http://registration.componentcloud.philips.com/appregistration/>
- Integral sensing options may not be combined
- For more information including recommended switches, refer to the following: –
SWZDT – www.usa.lighting.philips.com/systems/lighting-systems/spacewise

EvoKit Click LED retrofit kit 1x4

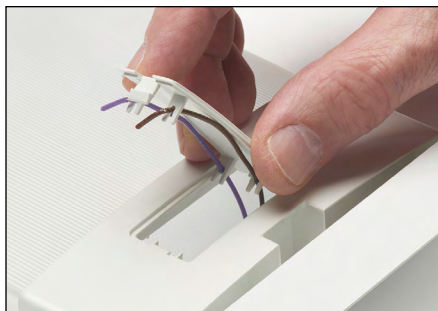
EvoKit Click 1x4 Sensor Ready ordering guide

Product Number	Description	Watts ³	Volts	Lumen Maint. (Hrs.) ²	Approx. Lumens ³	Color Temp. (K)	Efficacy	Dim	Pkg	DLC Code
CLKE SR (Energy Efficient Sensor Ready)										
523613	EvoKit CLKE 1x4 32L 25W 840 UNV SR P4	25W	120-277	70,000	3200	4000	137	SR	4 Pack	P4YLNYS
521294	EvoKit CLKE 1x4 32L 25W 835 UNV SR P1	25W	120-277	70,000	3200	3500	132	SR	Single Pack	P5DLLVX
521328	EvoKit CLKE 1x4 32L 25W 840 UNV SR P1	25W	120-277	70,000	3200	4000	137	SR	Single Pack	PXX1QGV3

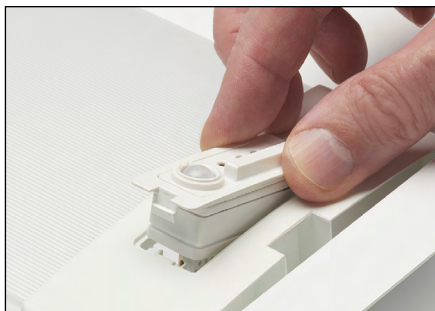
See footnotes on the last page.

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.

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.



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 for instructions on removing bracket.

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[†] to ensure quality performance and safety standards are met.
 - High efficiency LEDs have a minimum 70,000 hour rated life (L_{70}).

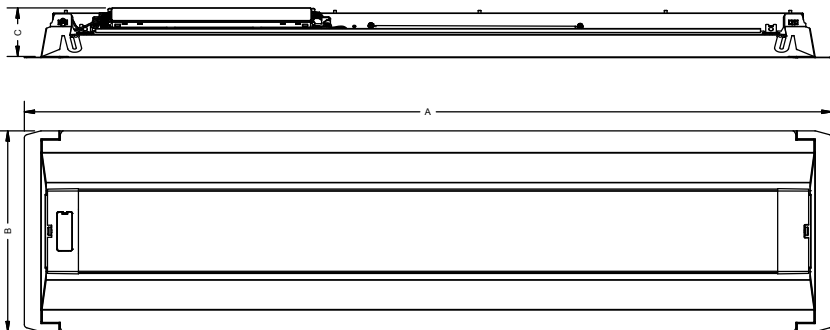
Accessories

- Suitable for use with Philips 503441 emergency backup or with Philips ER100 UL924 emergency relay.
- Earthquake cables available for additional securement to the existing troffer for areas where required.
- EvoKit accessory replacement kit comes with quarter tunes (51 pieces), quick disconnects (12 pieces), spare sensor brackets (12 pieces) and troffer retrofit labels (12 pieces).

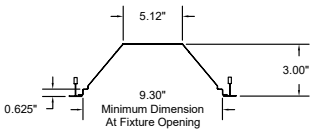
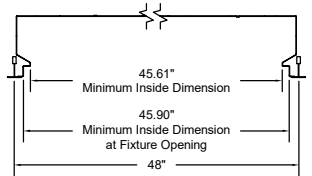
Prod. No.	Description
502435	Earthquake cable 317mm
503441	EvoKit field installed emergency battery backup
522094	EvoKit accessory replacement kit
563569	EvoKit field installed ER100 UL924 emergency relay (requires the use of the ER100 field installation kit of wires and screws)
266833	EvoKit ER100 field install kit (comes in pack of 20). One pack needed per emergency relay

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.



A Face Plate Length	B Face Plate Width	C Height
47.83"	23.9"	2.99"



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

EvoKit Click LED retrofit kit 1x4

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

Catalog No.	521260	Candlepower				Coefficients of Utilization							
Test No.	21260	Angle	End	45	Cross	Back-45	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)						
S/MH	1.4						pcc	80			70		
Lamp Type	LED						pw	70	50	30	70	50	30
Lumens/Watt	144						RCR						
Input Watts	16												
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													
Light Distribution							Average Luminance						
Degrees	Lumens	% Luminaire					Angle	End	45°	Cross			
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

Catalog No.	521286	Candlepower				Coefficients of Utilization							
Test No.	21286	Angle	End	45	Cross	Back-45	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)						
S/MH	1.4						pcc	80			70		
Lamp Type	LED						pw	70	50	30	70	50	30
Lumens/Watt	140						RCR						
Input Watts	24												
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													
Light Distribution							Average Luminance						
Degrees	Lumens	% Luminaire					Angle	End	45°	Cross			
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

Catalog No.	521294	Candlepower				Coefficients of Utilization							
Test No.	21294	Angle	End	45	Cross	Back-45	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)						
S/MH	1.4						pcc	80			70		
Lamp Type	LED						pw	70	50	30	70	50	30
Lumens/Watt	132						RCR						
Input Watts	26												
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													
Light Distribution							Average Luminance						
Degrees	Lumens	% Luminaire					Angle	End	45°	Cross			
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[‡] \$1,916.25

[‡] 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) L₇₀ 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>).

