

## PHILIPS EVOKIT 2'x2' LED RETROFIT KIT



**Philips EvoKit LED Retrofit Kit** is an energy efficient LED alternative to traditional linear fluorescent troffers. Not only does it offer energy savings\*\*, it also helps reduce maintenance costs due to its long lifetime. Simple construction helps decrease the installation time meaning you can have an LED solution in your ceiling in just minutes.

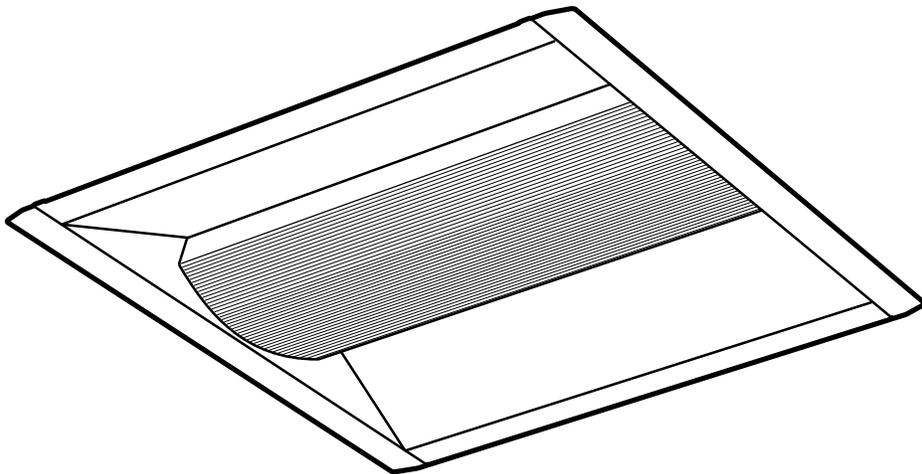
### Application

- 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 110 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

\* DLC requires the product to meet specific performance requirements regarding: lumen output, spacing criteria, lumens per watt, color temperature, CRI, lifetime and warranty.

\*\* Please refer to the energy saving chart on page 3 for details.

The ideal LED  
replacement for  
**linear**  
fluorescent  
troffers.



# PHILIPS

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## Construction/Finish

- Simple design allows for quick installation (under 4 minutes) 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
- 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

## Electrical

- Multiple driver options available
  - 0-10V dimming satisfies universal voltage requirements
  - Mark10 leading edge dimming offers ability to dim without pulling neutral wires making it compatible with more existing systems
- 5 year limited warranty includes all components of the retrofit kit, including driver, LED board and non-electrical components<sup>\*\*\*</sup>
- 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<sub>70</sub>)

## Enclosure

- Diffuser requires no frames or fasteners and can be easily removed from below without tools if needed

## Accessories

- Earthquake cables available for extra securement within the ceiling for areas prone to extreme conditions
- Suitable for use with Bodine emergency backup BSL310
- Suitable for use with a wide range of control systems
- Appropriate for new construction when used with standard lensed or parabolic troffers

## Ordering, Electrical and Technical Data (Subject to change without notice)

Product Number	Description	Watts	Volts	Lumen Maintenance (Hrs.) <sup>1</sup>	Approx. Lumens <sup>2</sup>	CRI	Color Temperature (K)
<b>2'x2'</b>							
501734	EvoKit 2x2 P 32L 31W 835 2 0-10 7 G2	31	120-277	70,000	3210	80	3500
501759	EvoKit 2x2 P 32L 31W 840 2 0-10 7 G2	31	120-277	70,000	3280	80	4000
501775	EvoKit 2x2 P 32L 32W 835 1 Mk10 7 G2	32	120	70,000	3210	80	3500
501783	EvoKit 2x2 P 32L 32W 840 1 Mk10 7 G2	32	120	70,000	3280	80	4000
501791	EvoKit 2x2 P 32L 34W 835 5 Mk10 7 G2	34	277	70,000	3210	80	3500
501809	EvoKit 2x2 P 32L 34W 840 5 Mk10 7 G2	34	277	70,000	3280	80	4000
<b>2'x2' Additional SKU's*</b>							
502096	EvoKit 2x2 P 23L 23W 835 2 0-10 7 G2**	23	120-277	70,000	2400	80	3500
502104	EvoKit 2x2 P 23L 23W 840 2 0-10 7 G2**	23	120-277	70,000	2450	80	4000
502112	EvoKit 2x2 P 23L 23W 835 1 Mk10 7 G2	23	120	70,000	2400	80	3500
502120	EvoKit 2x2 P 23L 23W 840 1 Mk10 7 G2	23	120	70,000	2450	80	4000
502138	EvoKit 2x2 P 23L 25W 835 5 Mk10 7 G2	25	277	70,000	2400	80	3500
502146	EvoKit 2x2 P 23L 25W 840 5 Mk10 7 G2	25	277	70,000	2450	80	4000

1) L70 50,000 and 70,000 hours @ 25°C based on TM21 and LM80.

2) Based on photometric testing consistent with IES LM-79.

\* Special ordering requirements associated with these products. Please consult sales for more information

\*\* These products do not meet DLC criteria

\*\*\*Please visit [www.philips.com/warranties](http://www.philips.com/warranties) for full details

## Accessories

Product Number	Description
502435	EVOKIT ACCESSORY EARTHQUAKE CABLE 317MM

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## 2'x2' EVOKIT, P 32L 30W 840 1 Mk-10 7 G2, 3200 delivered lumens

Catalog No.	501783
Test No.	2655949-02
S/MH	1.18 - 1.22
Lamp Type	LED
Lumens/Lamp	3340
Input Watts	31.6

Comparative yearly lighting energy cost per 1000 lumens - \$2.16 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

Candlepower			
Angle	End	45	Cross
0	1212	1212	1212
5	1205	1203	1201
10	1180	1180	1181
15	1140	1142	1147
20	1085	1092	1102
25	1019	1032	1046
30	943	961	981
35	858	884	910
40	771	802	834
45	680	717	756
50	592	632	679
55	499	550	605
60	419	475	530
65	328	396	455
70	248	319	374
75	173	241	285
80	103	158	186
85	41	76	92
90	0		

### Coefficients of Utilization

#### EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pcc	80			70			50		
	70	50	30	70	50	30	50	30	
pw									
RCR									
0	119	119	119	116	116	116	111	111	
1	108	103	99	106	101	97	97	93	
2	98	90	83	96	88	82	84	79	
3	90	79	71	87	77	70	74	68	
4	82	70	61	80	69	60	66	59	
5	76	63	53	73	61	53	59	52	
6	70	56	47	68	55	47	54	46	
7	65	51	42	63	50	42	49	41	
8	60	47	38	59	46	38	45	37	
9	56	43	35	55	42	34	41	34	
10	53	40	32	52	39	32	38	31	

### Light Distribution

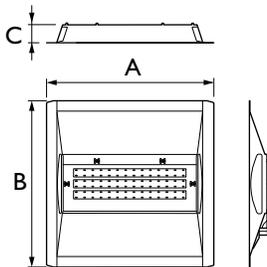
Degrees	Lumens	% Luminaire
0 - 30	9178	27.8
0 - 40	1478	44.8
0 - 60	2550	77.3
0 - 90	3297	100

### Average Luminance

Angle	End	45°	Cross
45	3948	3712	3462
55	3936	3530	3134
65	4065	3475	2792
75	4246	3506	2406
85	4363	3525	1693

## Dimensions

A Face Plate Length	B Face Plate Width	C Height
23.9"	23.9"	2.95"



## Energy Saving Solution – 2'x2'

Present Wattage	59 W
x Annual Operating Hours	4,380 hrs
	= 258,420 watt-hours
+1,000	= 258.42 kWh per year
x kWh rate of \$0.11	= \$28.43 per year
x 125 fixtures	= \$3,553.28 annual energy cost per space

Present Wattage	30 W
x Annual Operating Hours	4,380 hrs
	= 131,400 watt-hours
+1,000	= 131.40 kWh per year
x kWh rate of \$0.11	= \$14.45 per year
x 125 fixtures	= \$1,806.75 annual energy cost per space

**Total Estimated Annual Savings<sup>◇</sup> = \$1,746.53**

<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.



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www.philips.com/evokit

Philips Lighting  
North America Corporation  
200 Franklin Square Drive  
Somerset, NJ 08873  
Phone: 855-486-2216

Philips Lighting Company  
281 Hillmount Road  
Markham ON, Canada L6C 2S3  
Phone: 800-668-9008