

PHILIPS EVOKIT 2'x4' 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.

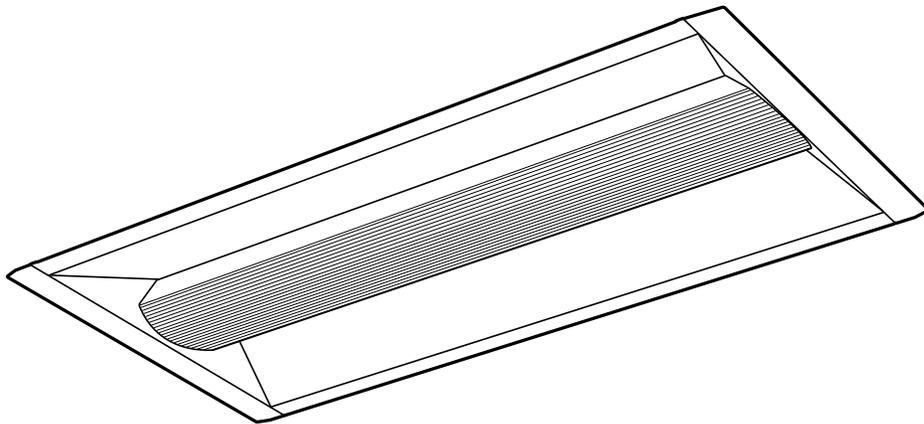
Application

- 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.



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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^{***}
- Listed with UL and Design Lights Consortium to ensure quality performance and safety standards are met
- High efficiency LEDs have a minimum 50,000 hour rated life (L₇₀)

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.) ¹	Approx. Lumens ²	CRI	Color Temperature (K)
2'x4'							
501817	EvoKit 2x4 P 42L 39W 835 2 0-10 7 G2	39	120-277	70,000	4180	80	3500
501866	EvoKit 2x4 P 42L 39W 840 2 0-10 7 G2	39	120-277	70,000	4280	80	4000
501874	EvoKit 2x4 P 42L 40W 835 1 Mk10 7 G2	40	120	70,000	4180	80	3500
501882	EvoKit 2x4 P 42L 40W 840 1 Mk10 7 G2	40	120	70,000	4280	80	4000
501924	EvoKit 2x4 P 42L 42W 835 5 Mk10 7 G2	42	277	70,000	4180	80	3500
501940	EvoKit 2x4 P 42L 42W 840 5 Mk10 7 G2	42	277	70,000	4280	80	4000
2'x4' Additional SKU's*							
502039	EvoKit 2x4 P 36L 36W 835 2 0-10 7 G2	36	120-277	70,000	3600	80	3500
502047	EvoKit 2x4 P 36L 36W 840 2 0-10 7 G2	36	120-277	70,000	3680	80	4000
502054	EvoKit 2x4 P 36L 34W 835 1 Mk10 7 G2	34	120	70,000	3600	80	3500
502062	EvoKit 2x4 P 36L 34W 840 1 Mk10 7 G2	34	120	70,000	3680	80	4000
502070	EvoKit 2x4 P 36L 33W 835 5 Mk10 7 G2	33	277	70,000	3600	80	3500
502088	EvoKit 2x4 P 36L 33W 840 5 Mk10 7 G2	33	277	70,000	3680	80	4000
501973	EvoKit 2x4 P 52L 51W 835 2 0-10 5 G2	51	120-277	50,000	5300	80	3500
501981	EvoKit 2x4 P 52L 51W 840 2 0-10 5 G2	51	120-277	50,000	5400	80	4000
501999	EvoKit 2x4 P 52L 52W 835 1 Mk10 5 G2	52	120	50,000	5300	80	3500
502005	EvoKit 2x4 P 52L 52W 840 1 Mk10 5 G2	52	120	50,000	5400	80	4000
502013	EvoKit 2x4 P 52L 53W 835 5 Mk10 5 G2	53	277	50,000	5300	80	3500
502021	EvoKit 2x4 P 52L 53W 840 5 Mk10 5 G2	53	277	50,000	5400	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.

***Please visit www.philips.com/warranties for full details

Accessories

Product Number	Description
502435	EVOKIT ACCESSORY EARTHQUAKE CABLE 317MM

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2'x4' EVOKIT P 42L 39W 840 1 Mk-10 7 G2, 4200 delivered lumens

Catalog No. 501882
 Test No. 2655949-04
 S/MH 1.18 - 1.22
 Lamp Type LED
 Lumens/Lamp 4377
 Input Watts 39.1

Comparative yearly lighting energy cost per 1000 lumens - \$2.14 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	1571	1571	1571
5	1566	1568	1563
10	1536	1539	1537
15	1487	1492	1493
20	1420	1429	1432
25	1335	1350	1358
30	1238	1258	1269
35	1129	1156	1172
40	1015	1046	1072
45	893	934	968
50	772	824	871
55	650	717	779
60	536	619	691
65	424	526	605
70	320	435	508
75	222	338	396
80	134	233	259
85	57	112	120
90	0		

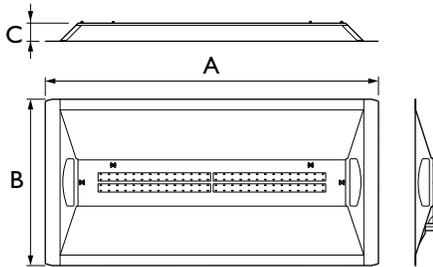
Coefficients of Utilization EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

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	105	101	97	97	93	
2	98	90	83	96	88	81	84	79	
3	89	79	70	87	77	69	74	67	
4	82	70	61	80	68	60	66	59	
5	75	62	53	73	61	53	59	52	
6	70	56	47	68	55	47	53	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	31	38	31	

Light Distribution			Average Luminance			
Degrees	Lumens	% Luminaire	Angle	End	45°	Cross
0-30	1189	27.8	45	2351	2267	2161
0-40	1912	44.7	55	2340	2147	1939
0-60	3280	76.8	65	2484	2158	1716
0-90	4273	100	75	2759	2321	1469
			85	2901	2607	1127

Dimensions

A Face Plate Length	B Face Plate Width	C Height
47.83"	23.9"	2.95"



Energy Saving Solution – 2'x4'

Present Wattage	85 W
x Annual Operating Hours	4,380 hrs
=	372,300 watt-hours
+ 1,000	= 372.3 kWh per year
x kWh rate of \$0.11	= \$40.95 per year
x 125 fixtures	= \$5,119.13 annual energy cost per space

Present Wattage	39 W
x Annual Operating Hours	4,380 hrs
=	170,820 watt-hours
+ 1,000	= 170.82 kWh per year
x kWh rate of \$0.11	= \$18.79 per year
x 125 fixtures	= \$2,348.78 annual energy cost per space

Total Estimated Annual Savings⁰ = \$2,770.35

⁰ 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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