SmartWatt Energy Training July 2015

July 28 2015









Philips LED A-Shape Portfolio









Philips SlimStyle A21 75W Equivalent

8W / 10.5W40W / 60W EQUIVALENT



8A19/SLIM/2700 DIM 10.5A19/SLIM/2700 DIM

13W 75W EQUIVALENT PHILIPS **ENERGY STAR**

13A21/SLIM/2700 DIM

13W 75W EQUIVALENT



9.5BR30/SLIM/F90 2700 DIM



A19 with Warm Glow Lighting Effect

6.5W / 9.5W 2700-2200K 40W / 60W EQUIVALENT PHILIPS Dimmable Light **ENERGY STAR**

453324 9.5A19/2200-2700 DIM 453316 6.5A19/2200-2700 DIM

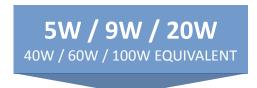
5.5W / 9W 5000K 40W / 60W EQUIVALENT PHILIPS

> 454041 9A19/LED/5000 DIM 454058 5.5A19/LED/5000 DIM



Philips LED A21 3-Way

- Works with standard 3-way sockets
- 40W / 60W / 100W Energy Star® equiv.
- 470 / 840 / 1620 lumens
- Available in 2700K
- 25,000 hour life





453365 20A21/END/2700 3W DIM



GU10 Transition

6W / 3000K / 300lm 50W EQUIVALENT

4.5W / 3000K / 315lm 50W EQUIVALENT







Available Now



Est. Sep.

423509 6PAR16/END/F25 3000 DIM (GU10)

454405 4.5GU10/LED/830/F25 DIM



BR30 Transition

65W BR30 SW TRANSITION TO 'SLIMSTYLE'







65W BR30 SW TRANSITION TO 'WarmGlow'







Philips LED R/BR









R20

- •8W / 450 lumens
- •Replaces a 50W incandescent
- •45,000 h Life
- Dimmable

BR30 AirFlux

- •9.5W / 730 lumens
- •Replaces a 65W incandescent
- WarmGlow, dimmable technology
- •25,000 h Life

Energy STAR

BR30 SlimStyle

- •9.5W / 650 lumens
- •Replaces a 65W incandescent
- •25,000 h Life
- Dimmable

BR40 AirFlux

- •12W / 800 lumens
- •Replaces a 65W Incandescent
- •25,000 h Life
- Dimmable





Philips PAR LED Single Optic









50,000 hrs Rated Life

PAR30S

- 900 lm
- 15D/25D/36D
- Non-Dimmable

PAR30L

- 900 lm
- 25D/36D
- Dimmable

PAR38

- 900 lm/1200 lm
- 15D/25D/36D
- Dimmable



PAR Transition

12.5 PAR30S
Now Dimmable







19 PAR38 Now Single Optic









PAR38 Outdoor Transition

PAR38
TRANSITION FROM OUTDOOR TO 'UL WET'









DiamondSpark Energy Star®

 Full range of products now Energy Star® certified (on Energy Star website)





Diamond Spark

4.5W / 2700K / 330lm 40W EQUIVALENT



454488 4.5A19/LED/827 DIM





454496 4.5G25/2700-E26 DIM



MR16 Lamps

Available Now!

6.5W MR1635W EQUIVALENT

7W MRX1635W EQUIVALENT

7W MRX16 HO50W EQUIVALENT

10W MRX16 75W EQUIVALENT



Low Cost Perfect Fit



High performance Long Life



More "Punch" Long Life



Highest Lumens Active Cooling



MR16 with Warm Glow Lighting Effect

6.5W 2700-2200K 35W EQUIVALENT



454538 6.5MR16/F25/2700-2200 DIM 12V 454546 6.5MR16/F35/2700-2200 DIM 12V



What is InstantFit?

Easiest Transition to LED





^{*}Lamps are compatible with more than Philips Advance ballasts

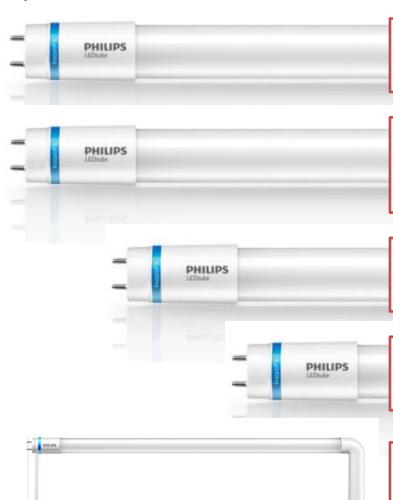


InstantFit TLED T8



CORE
PERFORMANCE
STATEMENT

www.philips.com/instantfit



4' 1600 Lumen T8

- 3000K / 3500K / 4000K / 5000K
- 50,000 h Life (L70)/ 5-year Limited Warran



4' 2100 Lumen T8

- 3000K / 3500K / 4000K / 5000K
- 50,000 h Life (L70)/ 5-year Limited Warrant
- DLC Approved

3' 1200 Lumen T8*

- 3000K / 3500K / 4000K / 5000K
- 50,000 h Life (L70) 5-year Limited Warranty

2' 1050 Lumen T8

- 3000K / 3500K / 4000K / 5000K
- 50,000 h Life (L70)/ 5-year Limited Warrant



2100 Lumen U-Bend T8*

- 3000K / 3500K / 4000K / 5000K
- 50,000 h Life (L70)/ 5-year Limited Warranty



LED Lamps Update

LED Lamps Product ManagementLED Lamps
July, 2015



Portfolio Update









Glossy white base

Old 6NC	Old Desc
453324	9.5A19/2200-2700 DIM 120V
453316	6.5A19/2200-2700 DIM 120V

Translucent white base

PHILIPS

New 6NC	New Desc
455824	9.5A19/LED/827-22 DIM 120V
455766	6.5A19/LED/827-22 DIM 120V



PAR30L Single Optic (Gen2)







0.5W More

Same Lumens

Same MBCP

Same Lens

Same Diameter

Same MOL

2pc housing

1pc housing

New Part Numbers

12.5W Gen2 PAR30L 2700K/3000K/4000K 25D/35D





Energy Star



PAR20 (Gen2)



8W Gen1 PAR20 2700K/3000K/4000K 25D/35D 2W Less

Same Lighting Effect

Same Diameter

6W Gen2 PAR20L 2700K/3000K/4000K 15D*/25D/35D



Smaller AirFlux Vents

2pc housing

1pc housing



Same MOL

Same Base

New Part Numbers

Energy Star





PHILIPS

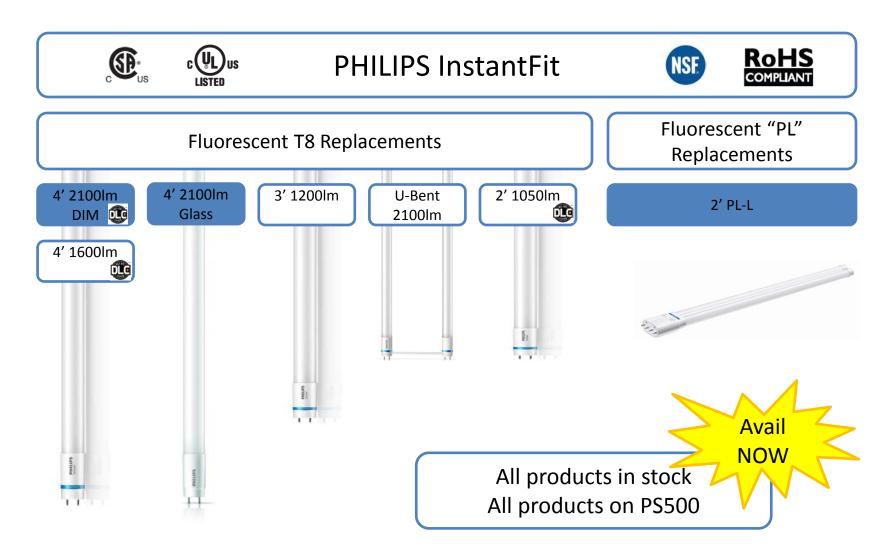


LED Lamps Launch InstantFit Glass & Dimmable TLEDs

LED Lamps Product ManagementLED Lamps
July, 2015

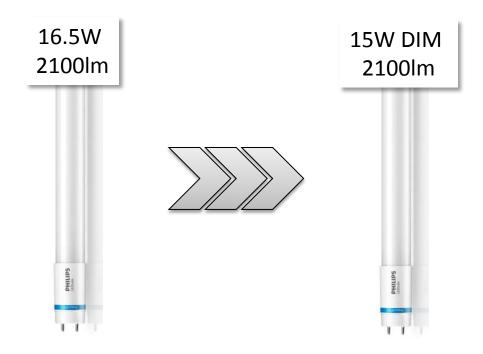


Product Positioning



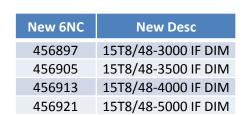


Product Positioning



Old 6NC	Old Desc
434860	16.5T8/48-3000 IF
434878*	16.5T8/48-3500 IF
434886	16.5T8/48-4000 IF
434894	16.5T8/48-5000 IF

^{*}Delisted, zero inventory





Application Notes – Dimmable TLED

Ballast Compatibility

- Works with 15 dimmable ballasts
- Increased Program Start (FO) ballast compatibility
- Increased Emergency ballast compatibility

Dimmer Compatibility

- 0-10V
- Mark 10 dimmers dependent upon ballast

Application locations

- Safe in vapor tight fixtures
- Lower wattage = greater energy savings

When to use

- Daylight harvesting & dimming requirement
- Maximum light output & energy savings
- DLC required /Rebates

Compatibility Comparison 15W vs. 16.5W

15W DIM 2100lm	Emergency	T8 PS (Dim)	T8 PS (FO)	T8 IS*	Totals
System Certified	16	8	8	24	56
Certified	0	7	23	57	87
Total	16	15	31	81	143

16.5W 2100lm	Emergency	T8 PS (Dim)	T8 PS (FO)	T8 IS*	Totals
System Certified	12		4	39	55
Certified	0		9	56	65
Total	12		13	95	120

*Fulham has not completed testing of the 15W dimmable. Once complete the dimmable compatibility will grow.













Application Notes – Glass TLED



Ballast Compatibility

- System Certified with >78 Instant-Start ballasts
- Certified with >50 Instant-Start ballasts
- System Certified with 8 Emergency ballasts

Application locations

- Safe in vapor tight fixtures
- Low initial price point
- NSF Certified / Food Service

When to use

- Low initial investment
- Wider beam desired



Compatibility of Glass TLED 17W Glass T8 IS* Totals Emergency 2100lm **System Certified** 24 32 Certified 0 54 54 8 78 86 Total







Glass TLED NSF Rating?

- Yes Approved for use in "Food Zone (Noncontact), Splash Zone, and Non-food Zone"
- Verified at the NSF website:
 http://info.nsf.org/Certified/Food/
 Models: 9290011511 & 9290011512
- Glass TLEDs should be covered since joints and seams must be sealed and strict dimensional requirements followed to allow cleaning, and preventing accumulation of dirt and debris.



4' TLED Selling Guide



Product	When to use
12W	Max Energy Savings
15W Dim	High lumen, Dimmable
17W Glass	Low initial Price w/o rebate



Evokit generation three

June 2015

G3 Table



Philips EvoKit LED

Specifications		
Light Output	2x4 = 4200lm 2x2 = 3200lm Other*	
System Watts	2x4 = 36 2x2 = 28	
ССТ	3500/4000/5000K	
CRI	>80	
Install Time	<5 Minutes	
Dimming	0-10V (Mark7) Line Voltage (Mark10) Step / bi-level	
Min. Depth of Existing Troffer	3"	
Limited Warranty	5 Years**	

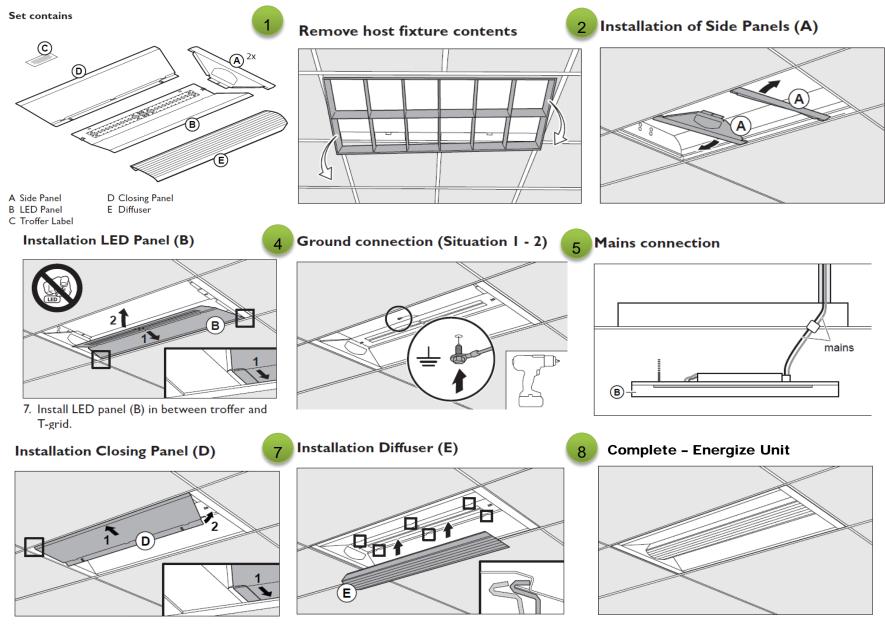
^{*}Higher and lower lumen packages are available



PHILIPS

^{**}Please contact your Philips sales rep for warranty terms and conditions

Quick and Easy Installation before installing, carefully review all installation instructions and warnings





Features

- <u>Dimming is Standard</u>
 - -0-10
 - Widely available and most common
 - UNIVERSAL INPUT VOLTAGE (120-277V)
 - Mark10 / line voltage
 - Very unique to Philips
 - Eliminates the need to pull additional wires
 - There is a dimmer compatibility list of Mark10 dimmers
 - DEDICATED INPUT VOLTAGE (120 OR 277V)
 - Step / bi-level
 - Two hot wires
 - Both connected...100% light output
 - One, but not both connected...40% light output
 - UNIVERSAL INPUT



Features

<u>Earthquake accessory</u>

- Separately purchased accessory meant to mechanically secure the LED panel to the existing luminaire for code compliance
- There is an application guide detailing how to install the accessory
- Comes in bags of 50. Two are required per kit.

Emergency battery back-up

- To be installed in the field
- Suitable for use with Philips 503441 battery back-up



What is Simpleset Technology



It used to be that a resistor installed into the terminal block on the driver set the drive current which controls the light output. The resistor was installed at the factory.



With Simpleset, a resistor is no longer required because the driver current can now be programmed wirelessly. The factory uses a wand-type device to program the drivers.

We have taken this ability to wirelessly program the drivers and have brought it to the field.

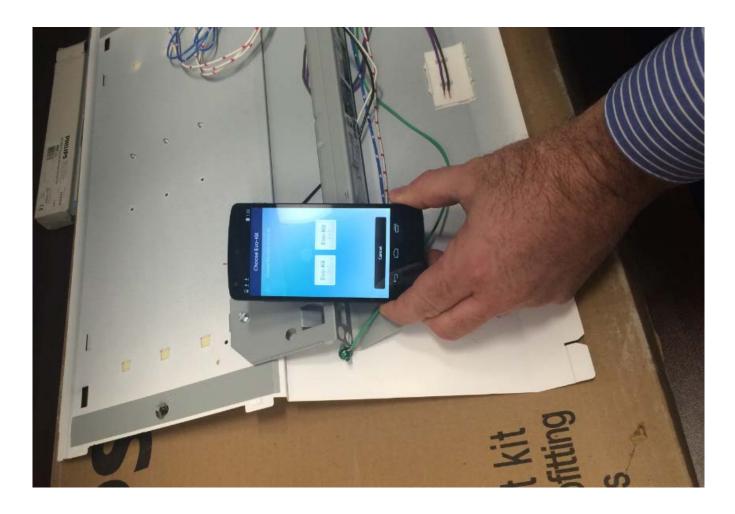


EvoKit, Simpleset Technology

- Simpleset technology is available in the 0-10V and SR versions
 - A downloadable Android smartphone app is used to adjust the max lumen level from the <u>rated output</u> down to 1500lm (DLC range)
 - The smartphone needs to be right next to the driver
 - This can reduce the number of sku's a distributor stocks or contractor specifies
 - This also gives the distributor/contractor the added flexibility to give their customers exactly the lumen level they want...and to modify that lumen level right up to the point of installation
 - The Simpleset feature does not have to be used. It's there to give the user the ability to easily tune the evokit before installation...if they chose to do so



SIMPLESET



The smartphone app adjusts the max lumen level (within the DLC range) simply by placing the smartphone next to the NFC antenna on the driver and tapping a few tabs on the screen. Evokit does not need to be powered up. Distributors can set the max lumen level before they ship to their customers, and contractors can set it right before installation. Will be available in the 0-10 and SR versions.



What is EvokitSR (sensor ready)



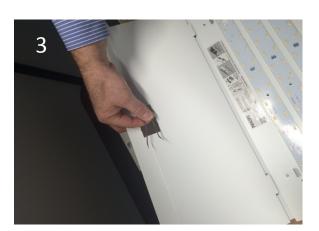
EvokitSR is meant to be fitted with an (appropriate) sensor in the field, ie it is sensor ready. There would be no reason to buy the evokitSR if you are not intending on adding controls. It is shipped with a mounting hole and cover.

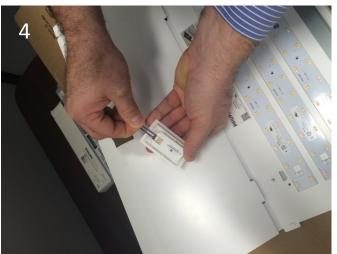


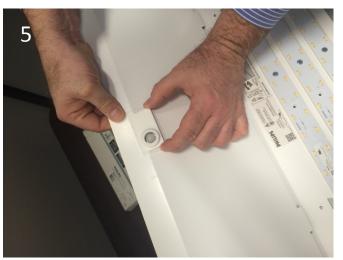
EVOKIT SR











A platform to which various different sensors can be **EASILY** connected depending on what level of sensing and control you want, from simple occ / daylight sensing to data-reporting cloud-connected sensing. EvokitSR ships with a cover that has the two sensing wires attached to the back of it. Remove the cover...remove the wires...insert the wires into the sensor...insert the sensor into the hole...THAT'S IT!



		ССТ	Integrated Controls	Simpleset	Input Voltage
	0-10V	3500K 4000K 5000K	Spacewise	Available	120-277V 347V
EVOKIT GEN3	Mark10	3500K 4000K			120V 277V
ŝEN3	Step	3500K 4000K			120-277V
	SR (sensor ready)	3500K 4000K 5000K	Contact your local Philips rep	Available	120-277V



LED offering 2015









ArcForm



Arioso LED



VersaForm



DuaLED





SofTrace LED



Coffaire LED





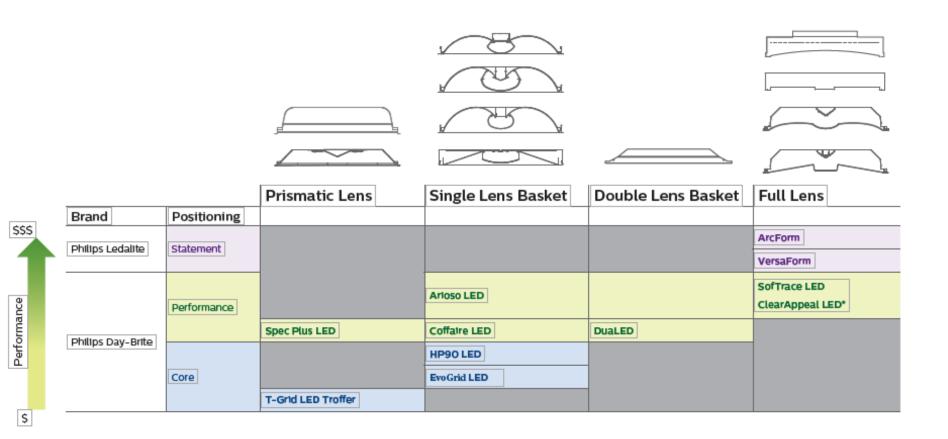
ClearAppeal LED



SpecPlus LED



LED portfolio positioning 2015





Philips Day-Brite EvoGrid Recessed LED*

Advantages

- · Modern architectural aesthetics
- · High efficiency, up to 110 LPW
- Extensive range of lumen packages and color temperatures
- Future proof
- Integral day and occupancy sensors to enable code compliance
- Integral wireless control solution (SWZ) by Q3 2015
- All stzes (1x4, 2x2, and 2x4) available by Q3 2015.
- L70, S0K predicted title as per TM21A.
- Standard 0-10V dimming
- DLC listed by time of launch
- * Available June 2015



Philips Day-Brite ClearAppeal LED

Advantages

- Glare free lighting for visual comfort and pleasing appearance
- Controlled amount of light directed at higher angles eliminates cave effect
- Highest efficiency in the category (up to 110 LPW)
- · Single piece extruded lens
- · Future proof
- Integral day and occupancy sensors to enable code compliance
- Integral wireless control solution (SWZ)
- All sizes (1x4, 2x2, and 2x4) available in both surface and recessed models
- L70, 50K predicted life as per TM21A
- Bottom access enables ease of maintenance
- Standard 0-10V dimming
- DLC listed by time of launch



Philips Day-Brite EvoGrid LED Recessed luminaire family

PHILIPS
Day-Brite
CFI

Recessed
EvoGrid

Change within reach

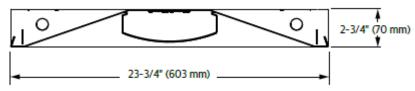
Craig Wright
Indoor General Area
June 2015

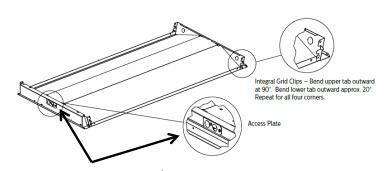


Product Details

Design

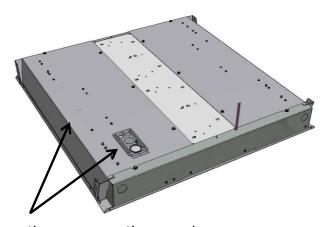






Standard configuration w/ driver mounted on end. Access plate located as shown.

- Attractive single lens enclosure and architectural aesthetics.
- Uniform glare-free lighting without pixilation
- Matt White high reflectance finish.
- Integrated Grid Clips
- 2.75" depth



Emergency driver & continuous row options require side covers. Access plate located as shown.



Product Details

- 3 sizes: 2x2,2x4 and(1X4 by Q4 2015)
- T-Grid and Dry wall ceilings
- Currently Static only. Air by Q4 2015.
- 3500, 4000 and 5000K
- CRI >80+
- Calculated L70 up to 50K as per TM21A.
- Predicted L70 up to 80K as per TM21.
- 3000, 3800, 4500lm (2x2)
- 3800, 4300, 4800, 5400, 7400lm (2x4)
- 2600, 3000, 4000lm (1X4) by Q4
- Chicago plenum
- 120/277V, 347V
- Integrated battery packs
- Integrated Daylight and Occupancy sensors
- Space Wise under development. Expected to be available by Q4 2015.
- Standard dimming (0-10V)
- DALI, Step-dim, Phase Dim, and Lutron Hi-Lume A and EcoSystem drivers as options





Space Wise



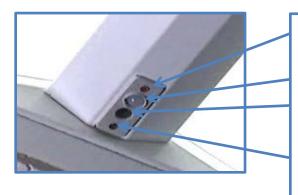




What is SpaceWise Technology?

Affordable, Automated, Wireless LED lighting solution

- An integral LED lighting system with embedded sensors and wireless controls designed specifically for luminaire replacement / upgrade opportunities.
- A system that delivers deep energy savings of Up to 75%* through automated, subtle, granular dimming behavior.
- Economical and simple with easy to install and use; no commissioning or design.
- Smart: algorithms maintain handshake between effective lighting performance with user comfort.
- Stand-alone: no external connections, no integration with BMS solutions



LED indicator: Red = Motion detected

Yellow = No motion detected

PIR Sensor: Occupancy sensor

Closed Loop For daylighting and automatic

Light Sensor: Light level calibration

IR Receiver: Receives signals from the

commissioning remote



The fundamentals of SpaceWise Technology

Basic functionality

- SpaceWise enables wireless connected luminaires in a room or area.
- Luminaires detect presence and share occupancy information.
- All luminaires within a group act in a predefined 'office' or 'industry' automated behavior.
 - Automated behavior is activated by selecting the appropriate application mode via the commissioning remote (IRT9090).
- All of this without any additional investments in control cables or complex commissioning.

Simple installations:

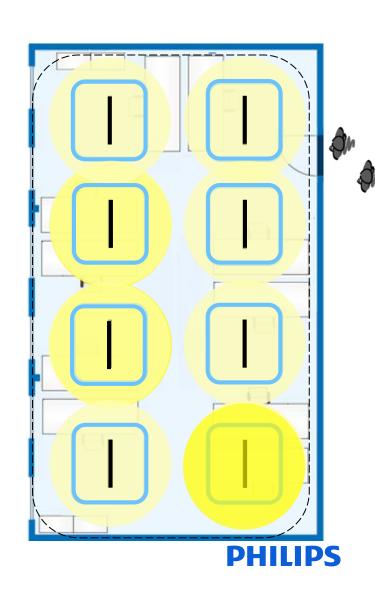
- The wireless network can have up to 50 devices (luminaire / wireless UI)
- A wireless device can only be in one wireless network
- All luminaires within a network have similar automated behavior (same mode)



How does the system work?

Granular dimming behavior

- Upon entering the SpaceWise luminaires detect movement and the luminaires turn on at a background level.
- As occupants settle down lights dim up to task level (determined by the daylight sensor and the wattage trim level).
- As workers move away, their lights dim down to the background level.
- When the group is entirely empty lights turn off.
- There is no flashing of lights as the system is smart to distinguish between a fast motion and a stable motion.



SpaceWise Mode selection

Selection between Office and Industry Applications





'Office' application modes

- 1 Private office / Meeting room Auto ON
- 3 Private office / Meeting room Manual ON
- 5 Corridor & Stairwell Auto OFF
- 24 Open office Auto ON
- 25 Open office Manual ON
- 26 Corridors & Stairwell Auto dim to background

'Industry' application modes (coming soon)

- 6. Storage Auto ON
- 7. Warehouse Auto ON
- Distribution center Auto ON
- Warehouse comfort Auto ON



SpaceWise Applications

Office Modes (can also be used for classrooms)

Application setting	Mode 1: Private Office/ Meeting Room - Auto On	Mode 3: Private Office/Meeting Room - Manual On	Mode 24: Open Office – Auto On	Mode 25: Open Office – Manual On	Mode 26: Corridors & Stairwells	Mode 5: Corridors & Stairwells
Out of the box	Behavior of the luminaires before grouping or being altered via the commissioning remote.					
behavior						
Power-up state	On	On	On	On	On	On
Hold Time	10 min	10 min	10 min	10 min	10 min	10 min
Background Level	25%	25%	25%	25%	25%	25%
Prolong Time	Infinite	Infinite	Infinite	Infinite	Infinite	Infinite
Start-up and Dim	Behavior of the luminaires after grouping.					
behavior						
Background Level	27%	27%	27%	27%	27%	10%
Fading to Switch	1 s	1 s	1s	1 s	1s	1 s
On						
Hold Time	10 min	10 min	10 min	10 min	5 min	5 min
Fading to	10s	10s	10s	10s	10s	10s
Background Level						
Prolong Time	15 min	0 min	15 min	0 min	15 min	Infinite
Occupancy Mode	Auto On / Auto Off	Manual On / Auto Off	Auto On / Auto Off	Manual On / Auto Off	Auto On / Auto Off	Auto On / No Auto Shutoff

^{*}Hold time is the occupancy time out after which the luminaire dims from the task level to the background level.



^{**} Prolong time is the time for which the luminaire stays at the background level before switching off.

SpaceWise Applications

Industry Modes (coming soon)

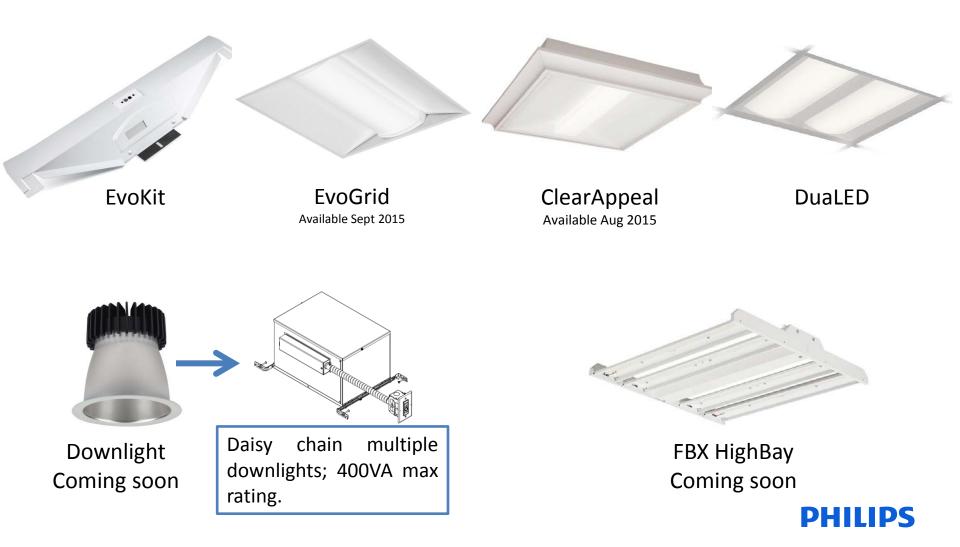
Application setting	Mode 6: Storage	Mode 7: Warehouse	Mode 8: Distribution Center	Mode 9: Warehouse Comfort	
Out of the box behavior	Behavior of the luminaires before grouping or being altered via the commissioning				
		rem	ote.		
Power-up state	On	On	On	On	
Hold Time*	15 min	15 min	15 min	15 min	
Background Level	30%	30%	30%	30%	
Prolong Time**	Infinite	Infinite	Infinite	Infinite	
Start-up and Dim	Behavior of the luminaires after grouping.				
behavior					
Switch ON Level	60%	60%	60%	60%	
Background Level	10%	20%	10%	20%	
Fading to Switch On	0s	0s	Os	Os	
Hold Time	2 min	5 min	2 min	5 min	
Fading to Background Level	10s	10s	10s	10s	
Prolong Time	2 min	5 min	Infinite	Infinite	
Switch OFF to 0%	Yes	Yes	No. Stays at background level	No. Stays at background level	

^{*}Hold time is the occupancy time out after which the luminaire dims from the task level to the background level.



^{**} Prolong time is the time for which the luminaire stays at the background level before switching off.

SpaceWise Portfolio



Balance of the stock Portfolio



Portfolio Product High Bay



FBD High Bay Fluorescent 2, 3, 4, 6 lamp FBL LED High Bay FBX LED High Bay (new)



Portfolio Product Strip



N1, TN1 Strip 1 lamp 2', 4', 8' T2, TT2 Strip 2 lamp 2', 4', 8' IS, TIS Industrial 1, 2 lamp 4', 8'

T1F3
Industrial 3
lamp

Product Portfolio Troffers







SPS
Troffer
2X2,
2X4, LED

2TG Troffer 2X2, 2X4 Fluorescent, LED 2LP3
Parabolic
2X2, 2X4
Fluorescent

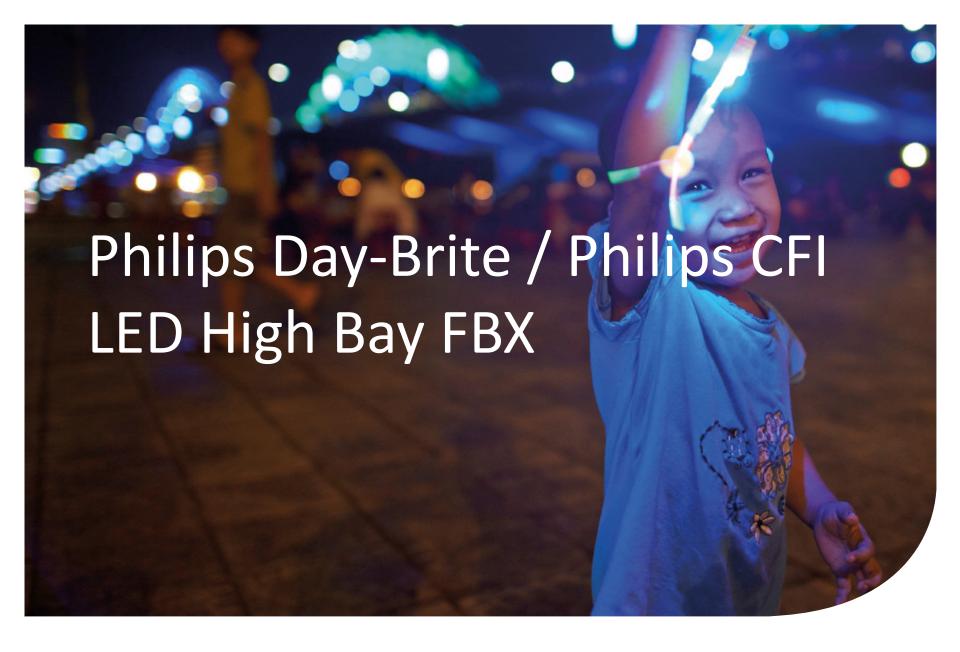


Product Portfolio WRAPS



SJ1, TSJ1 OWN2, TOWN2
Wrap 1 lamp- 4', 8' Wrap 2 lamp- 2', 4', 8'

CAW3 Wrap 3 lamp- 4' DWAE, TDWAE, V2WAE3 Vaportight 1, 2, 3 lamp- 4', 8'



PHILIPS

LED High Bay FBX





PHILIPS PHILIPS
Day-Brite

LED High Bay FBX

Key Features

- Efficacies up to 120 lm/w
- Multiple lumen packages up to 45,000 nominal delivered lumens
- Three sizes optimized to lumen packages
- Multiple light distribution patterns
- 4000K and 5000K color temperatures
- 80+ CRI
- 0-10V dimming drivers are standard
- Available in all standard voltages 120V 480V
- Available for ambient temperatures up to 55C
- Multiple mounting options
- Optional motion detector
- Optional integral emergency battery
- DLC listed (check DLC website to confirm exact catalog number)











Conventional Comparison

Conventional

System

Conventional

System Wattage

				vvallage		
	100W PSMH	129W	FBX08LL40	82W	47W	36.43%
	150W PSMH	190W	FBX12LL40	98W	92W	48.42%
	250W PSMH	288W	FBX16LL40	165W	123W	42.71%
	400W PSMH	454W	FBX24LL40	197W	257W	56.61%
T	750W PSMH	820W	FBX45LL40	398W	422W	51.46%
	(4) 54W T5HO	236W	FBX16LL40	165W	71W	30.08%
	(6) 32W T8	221W	FBX16LL40	165W	56W	25.34%
1	(6) 54W T5HO	354W	FBX24LL40	197W	157W	44.35%

FBX Potential

Equivalent



Compared to conventional systems, the FBX LED technology can save up to 56% of the energy required to light a space.

FBX

System

Energy

Savings

% Savings



Optics & Lenses

Multiple optics are available to create the proper lighting design for the application. Optional lenses are available to cover the LEDs, diffuse the images created by each LED, or reduce glare. Note that the addition of the lens will reduce the light output and could possibly distort the desired effect of the optical distribution.



- 1. General Distribution (no optics)
- 2. With Optics (narrow, medium, wide, or aisle)







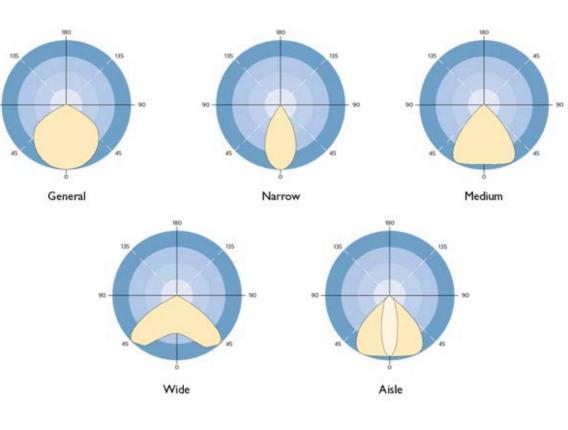
- 3. Clear Acrylic Lens (LCA) option
- 4. Frosted Acrylic Lens (LFA) option
- 5. Prismatic Acrylic Lens (LPA) option



Light Distributions

Each optic is designed for a specific purpose:

- General distribution allows a wash of light in any application
- Narrow beam allows focused light in higher ceiling areas
- Medium beam is tailored for mid mounting heights
- Wide beam is perfect for low bay areas or locations with wider fixture spacing
- Aisle beam has an asymmetric distribution for aisle or rack areas





Options & Accessories

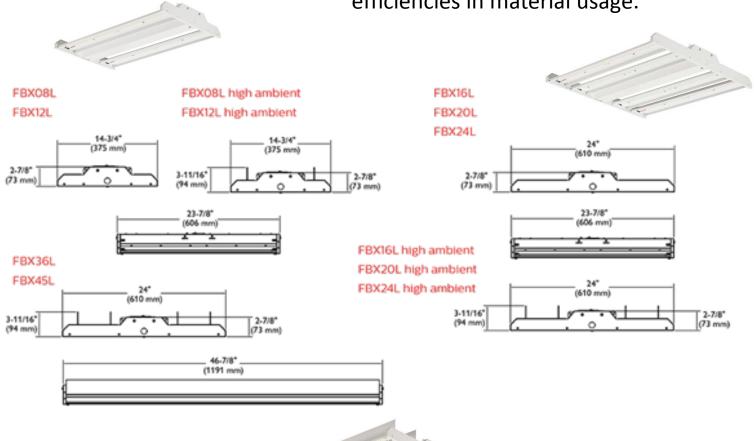


Multiple options and accessories are available to match the luminaire to the existing space requirements or to the desired design effect.



Dimensions

Each of the three sizes is configured for specific lumen packages. Tailoring the size of the luminaire to the lumen package increases efficiencies in material usage.





Portfolio Cheat Sheet

Category	Catalog Number/ Description	Stock Status
High Bay FBD DOOR WITH LENS 2-4L	FBD-4E-1W	Stock
High Bay FBD DOOR WITH LENS 6L	FBD-6E-1W	Stock
High Bay FBD Fluorescent	FBD254HO-UNV-1/2-EB	Stock
High Bay FBD Fluorescent	FBD332-UNV-1/3-EBH	MTO
High Bay FBD Fluorescent	FBD354HO-UNV-1/3-EB	Stock
High Bay FBD Fluorescent	FBD432-UNV-1/4-EBH	Stock
High Bay FBD Fluorescent	FBD454HO-UNV-1/4-EB-2LS	Stock
High Bay FBD Fluorescent	FBD632-UNV-1/42-EBH	Stock
High Bay FBD Fluorescent	FBD654HO-UNV-1/42-EB	Stock
High Bay FBD GUARD 2-4L	WG-FBD4	Stock
High Bay FBD GUARD 6L	WG-FBD6	Stock
High Bay FBD GYM GUARD 2-4L	FBD4-GL	Stock
High Bay FBD GYM GUARD 6L	FBD6-GL	Stock
Industrial- Strip 4'	IS132-UNV-1/1-EB-QHE132T8UVISLSC	Stock
Industrial- Strip 4'	IS132-UNV-1/1-EB-QHE132T8UVISNSC	Stock
Industrial- Strip 4'	IS232-UNV-1/2-EB-QHE232T8UVISHSC	Stock
Industrial- Strip 4'	IS232-UNV-1/2-EB-QHE232T8UVISLSC	Stock
Industrial- Strip 4'	IS232-UNV-1/2-EB-QHE232T8UVISNSC	Stock
Industrial- Strip Tandem	T1F332-PP-UNV-1/42-EB-QHE232T8UVISHSC-QHE432T8UVISH	MTO
Industrial- Strip Tandem	TIS132-UNV-1/2-EB-QHE232T8UVISHSC	Stock
Industrial- Strip Tandem	TIS132-UNV-1/2-EB-QHE232T8UVISLSC	Stock
Industrial- Strip Tandem	TIS132-UNV-1/2-EB-QHE232T8UVISNSC	Stock
Industrial- Strip Tandem	TIS232-UNV-1/4-EB-QHE432T8UVISH	Stock
Industrial- Strip Tandem	TIS232-UNV-1/4-EB-QHE432T8UVISLSC	Stock
Industrial- Strip Tandem	TIS232-UNV-1/4-EB-QHE432T8UVISNSC	Stock



The End



Thank you!!