



PART # \_\_\_\_\_

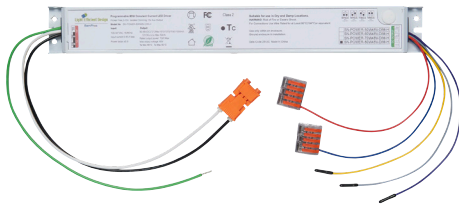
JOB NAME \_\_\_\_\_

TYPE \_\_\_\_\_



Our Linear Barkits / External Driver (LBE) for linear fluorescent luminaires is a simple, efficient retrofit solution. Designed to easily retrofit existing T5/T8/T12 linear fluorescent fixtures. Fast, one-person installation. Built in a Trade Act Agreements compliant country.

- Convert existing fixtures fast with magnets on the back of the light bars that allow hands-free placement (self-drilling screws are pre-captivated on each magnetic bracket for fast & secure install)
- Electrical quick connects for simple, error-free power connections
- Works with existing sockets—fits into the existing fixtures and speeds up the installation process
- Versatile 2 FT, 3 FT, & 4 FT lamps
- Systems available from 6W (960LM) all the way to 80W (13,000LM)
- Standard 10V drivers include FlexWatt allowing you to chose the exact lumen/wattage package needed
- Streamline your retrofit project with custom professional brackets to reduce install time and variation of install
- **SIMPLE & NETWORK LIGHTING CONTROLS**

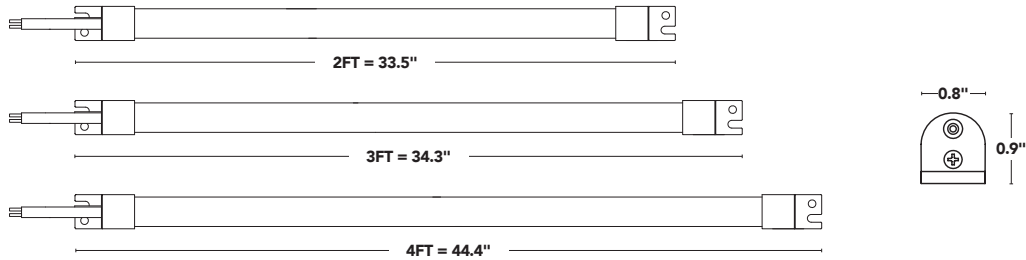


**FLEXWATT®**  
SWITCH BETWEEN 4 WATTAGES

YEAR 5 WARRANTY	120- 347V	0-10V DIM TO OFF	<math>< 0.9</math> PWR FACTOR	OPTIONAL NETWORK LIGHTING CONTROL	OPTIONAL SIMPLE OCC	OPTIONAL EMG BATTERY BACKUP	EFFICACY (LIGHT ENGINE) 1167 LPW	BEAM ANGLE 120°	80+ CRI	-4°F TO 122°F OPERATING TEMP	100,000hrs RATED LIFE



A GOOD OR SERVICE IS TAA-COMPLIANT IF MANUFACTURED OR SUBSTANTIALLY TRANSFORMED IN THE UNITED STATES OR MANUFACTURED IN A TAA-DESIGNATED COUNTRY. A TAA-DESIGNATED COUNTRY IS A NATION WITH WHICH THE U.S. MAINTAINS A TRADE AGREEMENT AND REGARDS AS A RELIABLE OR ACCEPTABLE PROCUREMENT SOURCE.



### PART NUMBER BUILDER - SEE PG. 3 FOR ORDERING GUIDE

MFR	PRODUCT	GENERATION	WATTAGE	LENGTH	# OF LAMPS	CCT	DIMMING	CONTROLS	EMG	OPTIONS
RP	LBE	G3				8XX				TAA
			12W   6 8 10 12 25W   15 18 20 25 45W   30 35 40 45 80W   50 60 70 80	2FT 3FT 4FT	1L 2L 3L 4L	8=80+ CRI  XX=CCT 27=2700K 30=3000K 35=3500K 40=4000K 50=5000K	10V LVD* 1 STEP 2 STEP*	-OCC -OCLR -OCBT -OCCBT-ARM -BT -BTX	-EM1 -EM2 -EM4 -EM8 -EM9  (NOT TAA-COMPLIANT)	TAA (TRADE AGREEMENTS ACT)

#### EXAMPLE PART NUMBER

RP-LBE-G3-6W-2FT-1L-840-10V-TAA

Emergency battery backup options can also be ordered separately. See pages 8-11 for more information.

### CONTROL OPTIONS

SIMPLE LIGHTING CONTROLS			NETWORK LIGHTING CONTROLS			
<p><b>RC-OCC-HNS-111-A (-OCC)</b> MICROWAVE OCCUPANCY AND DAYLIGHT HOLD-OFF SENSOR IR12 REMOTE</p>	<p><b>RC-OCLR-HNS111LR-A (-OCLR)</b> LIMITED-RANGE MICROWAVE OCCUPANCY AND DAYLIGHT HOLD-OFF SENSOR IR12 REMOTE</p>	<p><b>RC-OCBT-HNB115MW (-OCBT)</b> SILVAIR™ BLUETOOTH MICROWAVE MOTION AND DAYLIGHT HARVESTING SENSOR SILVAIR APP</p>	<p><b>RC-OCCBT-HNB131PIR (-OCCBT)</b> SILVAIR™ BLUETOOTH PASSIVE INFRARED MOTION AND DAYLIGHT HARVESTING SENSOR (EXTERNAL FIXTURE MOUNT ONLY) SILVAIR APP</p>	<p><b>RC-OCCBT-ARM-HNB178-PIR-BLE (-OCCBT-ARM)</b> SILVAIR™ BLUETOOTH PASSIVE INFRARED EXTERNAL ARM SENSOR SILVAIR APP</p>	<p><b>RC-BT-HNB131CTL (-BT)</b> SILVAIR™ BLUETOOTH CONTROL NODE SILVAIR APP</p>	<p><b>RC-BTX-HNB136 (-BTX)</b> SILVAIR™ BLUETOOTH NODE W/ EXTERNAL ANTENNA SILVAIR APP</p>



Light Efficient Design/RemPhos has partnered with Silvaire to offer fixtures & retrofits w/ a wireless Bluetooth-mesh eco-system. Silvaire is listed on the DLC NLC QPL certified to Technical Requirements Version 5.1. Our Silvaire controls meet all eligibility criteria of integral, fixture-mounted, addressable sensors with motion and photocell/ambient light-sensing capabilities, along with embedded programming that can be configured and networked. System can control motion response, illumination levels, and scheduling.

### EMG ADDERS (NOT TAA-COMPLIANT)

-EM1	-EM2	-EM4	-EM8	-EM9
<p>RP-EM-SKB-500LM/90-4.7X.8-4W WATTAGE: 4W LUMENS: 500LM @ 90MIN CCT: 5000K LED MODULE SIZE: 4.7 IN X 0.8 IN</p>	<p>RP-EM-SKB-500LM/90-3X1.5-4W WATTAGE: 4W LUMENS: 500LM @ 90MIN CCT: 5000K LED MODULE SIZE: 3 IN X 1.5 IN</p>	<p>RP-EM-SKB-500LM/90-1FT-4W WATTAGE: 4W LUMENS: 500LM @ 90MIN CCT: 5000K LED MODULE SIZE: 1 FT</p>	<p>RP-EM-SKB-1000LM/90-1FT-8W WATTAGE: 8W LUMENS: 1000LM @ 90MIN CCT: 5000K LED MODULE SIZE: 1 FT</p>	<p>RP-EM-SKB-1000LM/90-4.7X.8-8W WATTAGE: 8W LUMENS: 1000LM @ 90MIN CCT: 5000K LED MODULE SIZE: 4.7 IN X 0.8 IN</p>



## ORDERING DIRECTIONS (SEE ORDERING GUIDE BELOW)

- (A) Choose your desired total system wattage and lumen output
- (B) Choose your desired LEDBAR length (2 FT, 3 FT, or 4 FT)
- (C) Choose your desired QTY of LEDBAR(s) per driver
- (D) Order system part # (system will include 1pc LED driver + LEDBAR(s). Substitute "XX" in the 8XX for w/ 30 (3000K), 35 (3500K), 40 (4000K) or 50 (5000K) for your desired CCT
- (E) The wattage of each LEDBAR in the system
- (F) The total system lumen output

*If the system you want is not currently a listed part #, please contact us for a letter to send to your Utility for custom incentive approval.*

**CAUTION! MAX WATTAGES PER LEDBAR**

- 2 FT: 12.5W
- 3 FT: 15W
- 4 FT: 25W

PART #	(A) WATTAGE	(B) BAR LENGTH	(C) # OF LAMPS	(F) SYSTEM LUMENS*
RP-LBE-G3-6W-2FT-1L-8XX-10V-TAA	6W	2FT	1	762
RP-LBE-G3-6W-3FT-1L-8XX-10V-TAA		3FT	1	757
RP-LBE-G3-6W-4FT-1L-8XX-10V-TAA		4FT	1	757
RP-LBE-G3-8W-2FT-1L-8XX-10V-TAA	8W	2FT	1	1013
RP-LBE-G3-8W-3FT-1L-8XX-10V-TAA		3FT	1	1000
RP-LBE-G3-8W-4FT-1L-8XX-10V-TAA		4FT	1	1011
RP-LBE-G3-10W-2FT-1L-8XX-10V-TAA	10W	2FT	1	1266
RP-LBE-G3-10W-2FT-2L-8XX-10V-TAA		2FT	2	1360
RP-LBE-G3-10W-2FT-3L-8XX-10V-TAA		2FT	3	1162
RP-LBE-G3-10W-3FT-1L-8XX-10V-TAA		3FT	1	1249
RP-LBE-G3-10W-4FT-1L-8XX-10V-TAA		4FT	1	1247
RP-LBE-G3-12W-2FT-1L-8XX-10V-TAA		12W	2FT	1
RP-LBE-G3-12W-2FT-2L-8XX-10V-TAA	2FT		2	1524
RP-LBE-G3-12W-2FT-3L-8XX-10V-TAA	2FT		3	1528
RP-LBE-G3-12W-3FT-1L-8XX-10V-TAA	3FT		1	1482
RP-LBE-G3-12W-3FT-2L-8XX-10V-TAA	3FT		2	1514
RP-LBE-G3-12W-4FT-1L-8XX-10V-TAA	4FT		1	1487
RP-LBE-G3-12W-4FT-2L-8XX-10V-TAA	4FT		2	1528
RP-LBE-G3-15W-2FT-2L-8XX-10V-TAA	15W	2FT	2	1664
RP-LBE-G3-15W-2FT-3L-8XX-10V-TAA		2FT	3	1699
RP-LBE-G3-15W-3FT-1L-8XX-10V-TAA		3FT	1	1912
RP-LBE-G3-15W-3FT-2L-8XX-10V-TAA		3FT	2	2022
RP-LBE-G3-15W-3FT-3L-8XX-10V-TAA		3FT	3	2196
RP-LBE-G3-15W-4FT-1L-8XX-10V-TAA		4FT	1	1912
RP-LBE-G3-15W-4FT-2L-8XX-10V-TAA		4FT	2	1726
RP-LBE-G3-18W-2FT-2L-8XX-10V-TAA	18W	2FT	2	2040
RP-LBE-G3-18W-2FT-3L-8XX-10V-TAA		2FT	3	2004
RP-LBE-G3-18W-2FT-4L-8XX-10V-TAA		2FT	4	2350
RP-LBE-G3-18W-3FT-2L-8XX-10V-TAA		3FT	2	2258
RP-LBE-G3-18W-3FT-3L-8XX-10V-TAA		3FT	3	3033
RP-LBE-G3-20W-2FT-2L-8XX-10V-TAA	20W	2FT	2	2235
RP-LBE-G3-20W-2FT-3L-8XX-10V-TAA		2FT	3	2272
RP-LBE-G3-20W-2FT-4L-8XX-10V-TAA		2FT	4	3028
RP-LBE-G3-20W-3FT-2L-8XX-10V-TAA		3FT	2	2498
RP-LBE-G3-20W-3FT-3L-8XX-10V-TAA		3FT	3	2286
RP-LBE-G3-20W-3FT-4L-8XX-10V-TAA		3FT	4	2928
RP-LBE-G3-20W-4FT-1L-8XX-10V-TAA		4FT	1	2576
RP-LBE-G3-20W-4FT-2L-8XX-10V-TAA		4FT	2	2341
RP-LBE-G3-20W-4FT-3L-8XX-10V-TAA	4FT	3	2353	

\*PRELIMINARY TESTING - DLC PENDING, LUMENS LISTED IS FOR 4000K SETTING



PART #	(A) WATTAGE	(B) BAR LENGTH	(C) # OF LAMPS	(F) SYSTEM LUMENS*	
RP-LBE-G3-25W-2FT-2L-8XX-10V-TAA	25W	2FT	2	2766	
RP-LBE-G3-25W-2FT-3L-8XX-10V-TAA		2FT	3	2876	
RP-LBE-G3-25W-2FT-4L-8XX-10V-TAA		2FT	4	3048	
RP-LBE-G3-25W-3FT-3L-8XX-10V-TAA		3FT	3	3000	
RP-LBE-G3-25W-3FT-4L-8XX-10V-TAA		3FT	4	3048	
RP-LBE-G3-25W-4FT-1L-8XX-10V-TAA		4FT	1	3188	
RP-LBE-G3-25W-4FT-2L-8XX-10V-TAA		4FT	2	2882	
RP-LBE-G3-25W-4FT-3L-8XX-10V-TAA		4FT	3	2894	
RP-LBE-G3-25W-4FT-4L-8XX-10V-TAA		4FT	4	4044	
RP-LBE-G3-30W-2FT-3L-8XX-10V-TAA		30W	2FT	3	3463
RP-LBE-G3-30W-2FT-4L-8XX-10V-TAA	2FT		4	3465	
RP-LBE-G3-30W-3FT-2L-8XX-10V-TAA	3FT		2	3824	
RP-LBE-G3-30W-3FT-3L-8XX-10V-TAA	3FT		3	3747	
RP-LBE-G3-30W-3FT-4L-8XX-10V-TAA	3FT		4	4044	
RP-LBE-G3-30W-4FT-2L-8XX-10V-TAA	4FT		2	3424	
RP-LBE-G3-30W-4FT-3L-8XX-10V-TAA	4FT		3	3427	
RP-LBE-G3-30W-4FT-4L-8XX-10V-TAA	4FT		4	3441	
RP-LBE-G3-35W-2FT-3L-8XX-10V-TAA	35W		2FT	3	4046
RP-LBE-G3-35W-2FT-4L-8XX-10V-TAA			2FT	4	4055
RP-LBE-G3-35W-3FT-3L-8XX-10V-TAA		3FT	3	4446	
RP-LBE-G3-35W-3FT-4L-8XX-10V-TAA		3FT	4	4000	
RP-LBE-G3-35W-4FT-2L-8XX-10V-TAA		4FT	2	4099	
RP-LBE-G3-35W-4FT-3L-8XX-10V-TAA		4FT	3	4074	
RP-LBE-G3-35W-4FT-4L-8XX-10V-TAA		4FT	4	4090	
RP-LBE-G3-40W-2FT-4L-8XX-10V-TAA		40W	2FT	4	4571
RP-LBE-G3-40W-3FT-4L-8XX-10V-TAA			3FT	4	4996
RP-LBE-G3-40W-4FT-2L-8XX-10V-TAA			4FT	2	4605
RP-LBE-G3-40W-4FT-3L-8XX-10V-TAA	4FT		3	4596	
RP-LBE-G3-40W-4FT-4L-8XX-10V-TAA	4FT		4	4609	
RP-LBE-G3-45W-2FT-4L-8XX-10V-TAA	45W		2FT	4	5238
RP-LBE-G3-45W-3FT-4L-8XX-10V-TAA		3FT	4	5928	
RP-LBE-G3-45W-4FT-2L-8XX-10V-TAA		4FT	2	5764	
RP-LBE-G3-45W-4FT-3L-8XX-10V-TAA		4FT	3	5240	
RP-LBE-G3-45W-4FT-4L-8XX-10V-TAA		4FT	4	5261	
RP-LBE-G3-50W-4FT-2L-8XX-10V-TAA		50W	4FT	2	6376
RP-LBE-G3-50W-4FT-3L-8XX-10V-TAA	4FT		3	5810	
RP-LBE-G3-50W-4FT-4L-8XX-10V-TAA	4FT		4	5817	
RP-LBE-G3-60W-4FT-3L-8XX-10V-TAA	60W	4FT	3	6904	
RP-LBE-G3-60W-4FT-4L-8XX-10V-TAA		4FT	4	6917	
RP-LBE-G3-70W-4FT-3L-8XX-10V-TAA	70W	4FT	3	8015	
RP-LBE-G3-70W-4FT-4L-8XX-10V-TAA		4FT	4	8017	
RP-LBE-G3-80W-4FT-4L-8XX-10V-TAA	80W	4FT	4	9310	

\*PRELIMINARY TESTING - DLC PENDING, LUMENS LISTED IS FOR 4000K SETTING



### WHY USE THE LBE?

**MORE EFFICIENT** because the higher efficiency optics, LEDs, and drivers we use provide higher lumens per watt and less wattage compared to other LED tubes.

**MORE RELIABLE** because of the significant amount of aluminum that we use as a heat sink on the back of the LEDBAR properly dissipates the heat and keeps the electronics cooler than other LED tubes.

**MORE UNIVERSAL FIT** because our bars are designed to fit in between the sockets of either T5 or T8 fixtures. That means you can specify a 4 FT LEDBAR for any T5 or T8 style fixture whether it is a troffer, vapor tight, pendant, strip or many other applications.

**LESS LIABILITY** get rid of the old fluorescent tube sockets that often can lead to future issues such as arcing, early failure, or even a fire.

**BETTER PIECE OF MIND** because the LEDBARKIT family comes standard with a 5-year system warranty.

### MORE INFO

#### HIGHER OUTPUT TO MATCH T5HO

Previous generation could only be powered up to 20W for the 4 FT tube. G3 can be powered up to 25W for the 4 FT tube to match the foot candles of a T5HO FL lamp. All light bars are over 150LPW w/ AC wall efficiencies including the driver from 150-160LPW.

#### SINGLE CCT AVAILABLE

3000K, 3500K, 4000K, & 5000K

#### FLEXWATT STANDARD

Each driver has 4 adjustable wattage choices. With FlexWatt, there are now significantly more wattage choices to allow you to select exactly what lumen/wattage package is needed to maximize energy savings.

##### MAX WATTAGE:

2 FT=12.5W

3 FT=15W

4 FT=25W



#### VARIOUS CONTINUOUS AND STEP-DIM DRIVER OPTIONS.

We want to help you choose the lowest cost and easiest implementation method to dim our retrofit kits. While low voltage 10V dimming is a great approach, it often requires running new wiring. Therefore, we have line voltage phase dimming options, 2-switch step-dim driver (to work with existing inbound/outbound wall switches), and 1-switch step-dim driver (using 1 existing wall switch to change brightness between pre-selected levels of 50%/100% for example).

#### METAL, LINEAR BALLAST SHAPED LED DRIVERS

Previous G1 were plastic cases. New G3 are rigid metal cases, rugged and easy to mount. Thinner height to fit into even the most compact existing ballast compartments.

#### BUILT-IN METAL MAGNETIC MOUNTING BRACKETS

Previous G1 had plastic end caps which accepted self-drilling screws and fixed magnets. G3 has built-in magnetic mounting brackets for easy installation.

#### LOWER COST EMERGENCY BATTERY BACKUP

Not TAA-Compliant

#### DIM-TO-OFF SENSOR READY DRIVERS STANDARD

12V auxiliary power and 10V dimming wires are standard in every kit. Allows for easy interface with dimming switches and control systems.

#### LESS WATTS TO REPLACE YOUR FLUORESCENT LAMPS

Previously G1 was 10W to replace 32W T8 FL, now with G3 10W or even 6W can be used for deeper energy savings. Reference ordering guide for available systems.



## SPECIFICATION GUIDE

### OUTPUT

MODEL	RP-LBE-G3-DRV-12W	RP-LBE-G3-DRV-25W	RP-LBE-G3-DRV-45W	RP-LBE-G3-DRV-80W
LED OUTPUT CHANNEL(S)	SINGLE CHANNEL			
LED OUTPUT CURRENT - SELECTABLE (MA)	110/150/190/225	290/350/390/490	580/680/780/880	1000/1190/1370/1570
LED DC VOLTAGE RANGE	30-48V			
RATED POWER (MAX)	12W	25W	45W	80W
AUX VOLTAGE SOURCE	12V/100mA			

### INPUT

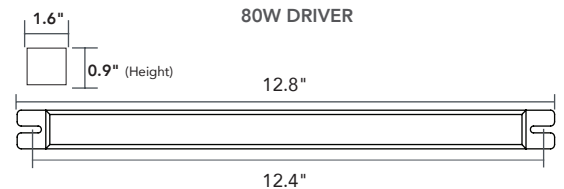
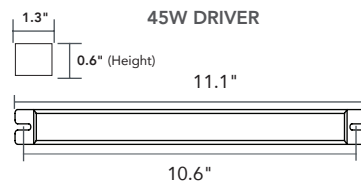
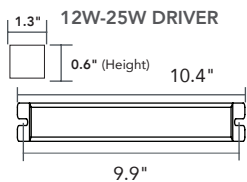
VOLTAGE RANGE	120-347VAC			
FREQUENCY RANGE	50-60HZ			
POWER FACTOR (TYP)	>0.95			
AC CURRENT (MAX)	0.15A @ 120V	0.22A @ 120V	0.38A @ 120V	0.70A @ 120V
LEAKAGE CURRENT	> 5mA			
INRUSH CURRENT	50A @ 277V			
THD	<0.15			

### PROTECTION

OVER CURRENT	105~125% Protection type: Shut down output voltage
LED SHORT CIRCUIT	A short condition on any output shall cause no damage to the power supply. The unit shall recover and function automatically as soon as the short condition is removed.
LED OPEN CIRCUIT	An open condition on any output shall cause no damage to the power supply. The unit shall recover and function automatically as soon as the open condition is removed.
OVER VOLTAGE	105~125% Protection type: Shut down output voltage
SAFTEY	UL8750 CLASS 2 CLASS P
SURGE PROTECTION	2.5 Kv

### ENVIRONMENT

WORKING TEMP	-13F to 122F
WORKING HUMIDITY	< 95%
STORAGE TEMP	-40F to 176F
STORAGE HUMIDITY	< 95% RH





### DIMMING OPTIONS

**10V** – Standard driver is controlled with 0-10V wall dimmer or 0-10V advanced control system. (Standard driver has Aux power [12V – 50mA]; Dim-to-Off)

**LVD** – 120-347V TRIAC / AC Phase cut dimming (Driver) Traditional AC modulated dimming. Compatible with forward or reverse phase cut dimming. CFL/LED compatible dimmer required. Selecting LVD results in the loss of FlexWatt capabilities.

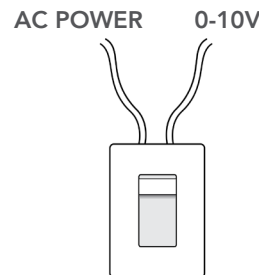
**1STEP** – Single Switch Step-Dimming (Module to be used with LBE 10V kits) Quick flip [ON-OFF-ON] to toggle between step dimming. [30% - 60% - 100%]

**2STEP** – Double Switch Step-Dimming (Driver) Use 2 switches to control dimming steps in logical way. Designed to retrofit fluorescent in-board / out-board set-up. [30% - 60% - 100%]

### DIMMING EXPANDED

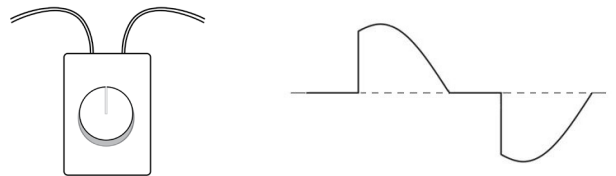
**10V**  
(STANDARD DRIVER)

→ **0-10V DIM**  
(Dim-to-off)  
(Aux 12V; mA)  
(0-10V use w/ wall dimmer or 0-10V Advanced Control)



**LVD**  
(OPTIONAL DRIVER)

→ **120-347V TRIAC (PHASE CUT)**  
(CFL/LED Compatible dimmer required)



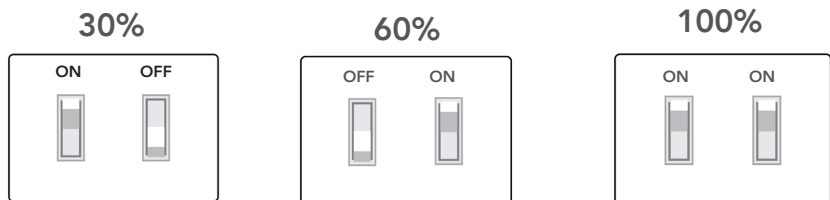
**1STEP**  
(OPTIONAL CONTROL MODULE)

→ **SINGLE SWITCH STEP DIM MODULE**  
(Use w/ standard LBE control ready driver)  
Quick flip [ON-OFF-ON] to toggle between step dimming. [30% - 60% - 100%]



**2STEP**  
(OPTIONAL DRIVER)

→ **2 SWITCH**  
(Fluorescent in-board / out-board retrofit)





TURNS ON WHEN POWER GOES OFF



90 MIN RUN TIME



41°F TO 131°F  
OPERATING TEMP



OPTIONAL EMG  
BATTERY BACKUP

EASILY ADD EM TO THESE FIXTURE STYLES, AND MORE!\*



VAPOR TIGHT



STRIP



WRAP



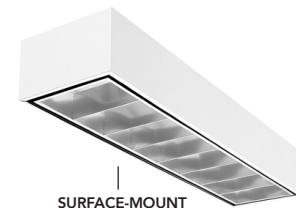
TROFFER



DIRECT/INDIRECT



LOW BAY INDUSTRIAL



SURFACE-MOUNT

EMG KIT W/  
LED-PCB



EXAMPLE SHOWN: RP-EM-SKB-500LM/90-4.7X.8-4W

PART #	PART # ADDER	UPC	WATTAGE	LUMENS	CCT	BATTERY RUN TIME	LED MODULE SIZE
RP-EM-SKB-500LM/90-4.7x.8-4W	-EM1	844006076108	4W	500	5000K	90 MIN	4.7" x 0.8"
RP-EM-SKB-500LM/90-3x1.5-4W	-EM2	844006076092					3" x 1.5"
RP-EM-SKB-500LM/90-1FT-4W	-EM4	844006076115	8W	1000	5000K	90 MIN	1FT
RP-EM-SKB-1000LM/90-1FT-8W	-EM8	844006076177					1FT
RP-EM-SKB-1000LM/90-4.7x.8-8W	-EM9	844006076160					4.7" x 0.8"

\* EMG IN NOT TAA-COMPLIANT

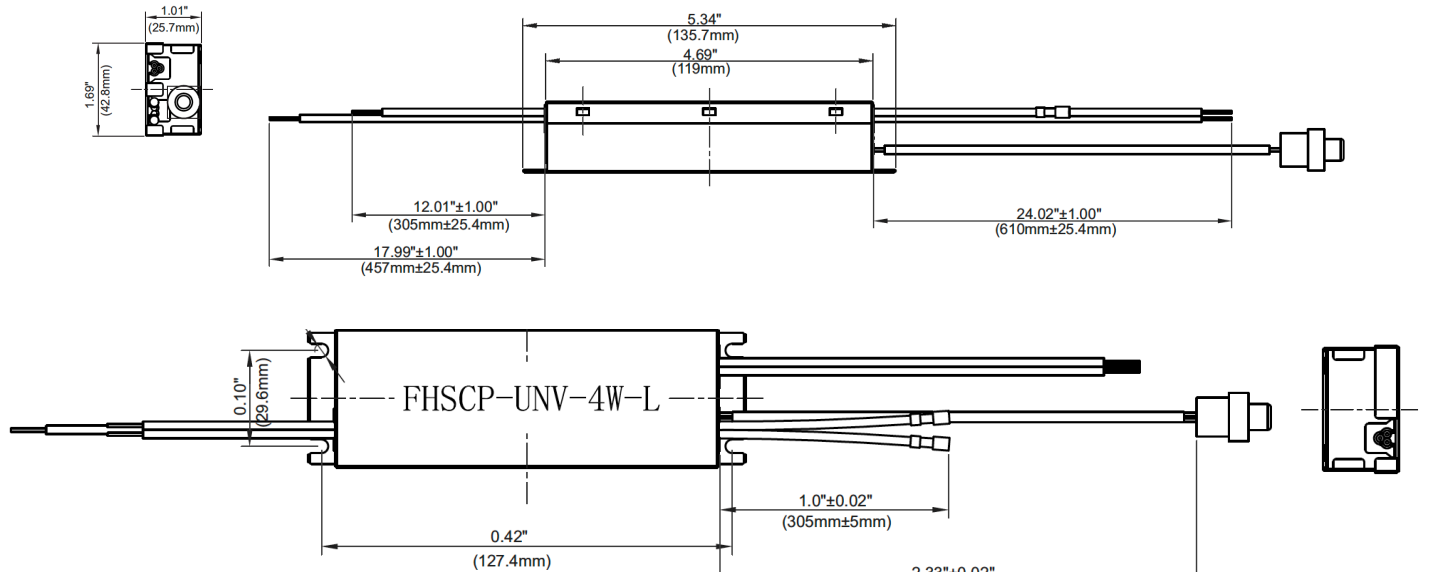


PRODUCT SPEC*	INFORMATION
INPUT VOLTAGE / FREQUENCY	120-347V~ , 50/60Hz
INPUT CURRENT	100mA Max
INPUT POWER	3W
STANDBY POWER	<0.85W
DRIVER TYPE	Constant Power
CURRENT RATED	333mA @ 12V, 73mA @ 55V
OUTPUT VOLTAGE RANGE	12-55V
OUTPUT POWER	4W
OUTPUT CLASS	LED Class 2
NUMBER OF OUTPUT CHANNELS	1
TEST SWITCH	Included
PILOT LIGHT	Red Light
BATTERY ON/OFF	Wire + Connector
LOCATION TYPE	Dry Location
INPUT SURGE PROTECTION	Line-Neutral 1kV, Line & Neutral-Ground 2kV
EMERGENCY MODE PROTECTIONS	Battery Over Voltage Protection Battery Under Voltage Protection Battery Hot Plug at Normal Mode Protection Battery Hot Plug at Emergency Mode Protection
RFI/EMI	FCC Part 15 Class A
AMBIENT OPERATING TEMPERATURE RANGE	5°C To 55°C (41°F To 131°F)
BATTERY TYPE	LiFePO4
BATTERY VOLTAGE	6.4V
BATTERY CAPACITY	2Ah Max
BATTERY CHARGE CURRENT	165mA
BATTERY RECHARGE TIME	12 Hours
BATTERY DISCHARGE TIME	Minimum 90 Minutes
SERVICE LIFE	50,000 Hours
WARRANTY	5 Years

\* EMG IN NOT TAA-COMPLIANT

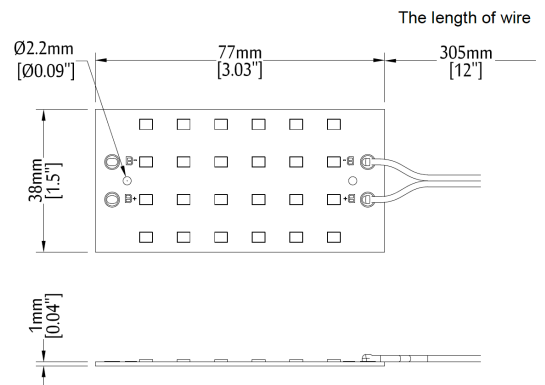
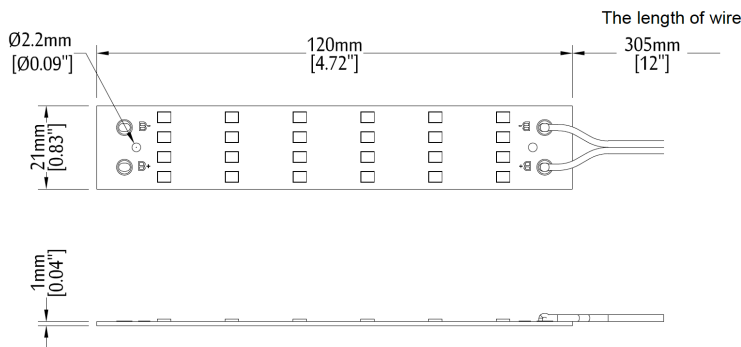
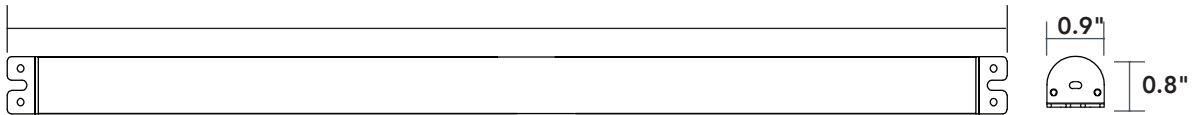


## EMG DRIVER DIMENSIONS\*



## LED MODULE DIMENSIONS - TO RECEIVE THIS KIT SIZE ORDER RP-EM-SK1-500LM/90-3X1.5

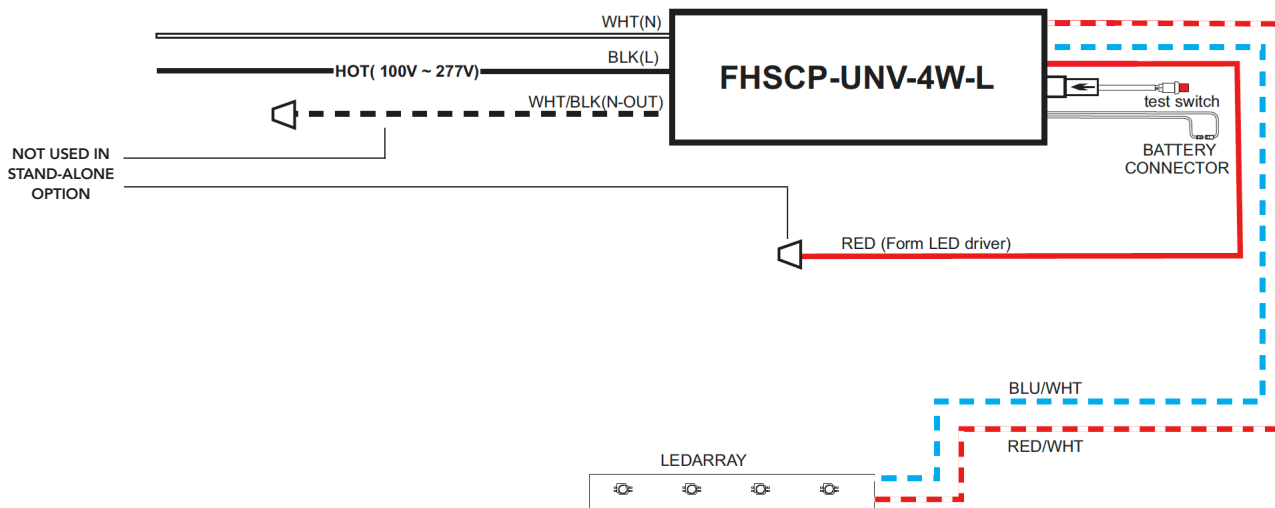
**LENGTH**  
1FT = 10.2"



\* EMG IN NOT TAA-COMPLIANT



## WIRING DIAGRAM - STAND-ALONE KIT - FOR 8W CONTACT REMPHOS TECH SUPPORT\*



## ADDITIONAL INSTALL EXAMPLE



\* EMG IN NOT TAA-COMPLIANT



## MICROWAVE OCCUPANCY AND DAYLIGHT HOLD-OFF SENSOR

ORDERING **RC-OCC-HNS111-A**, IN ADDITION TO THE LBE PART NUMBER, UPGRADES THE FIXTURE W/ A FACTORY INSTALLED **SIMPLE CONTROL** UTILIZING A MICROWAVE MOTION SENSOR. IT ALSO COMES EQUIPPED W/ A DAYLIGHT HARVESTING SENSOR TO DIM AND/OR TURN OFF THE LBE WHEN THE SPACE IS UNOCCUPIED OR SURROUNDING NATURAL LIGHT LEVELS ARE HIGH.



### ATTRIBUTES

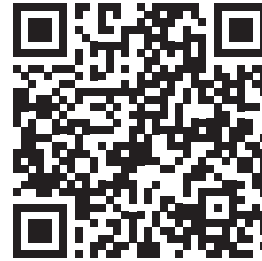
<b>DETECTION TECHNOLOGY</b>	MICROWAVE
<b>DETECTION TYPE</b>	OCCUPANCY
<b>SENSOR POWER</b>	12VDC
<b>GROUPABLE</b>	NO
<b>NETWORK LIGHTING CONTROL</b>	NO
<b>COMISSIONING METHOD</b>	IR REMOTE
<b>REMOTE</b>	IR12
<b>DAYLIGHT HARVESTING</b>	YES
<b>HI OR LOW TRIM</b>	NO
<b>BI-LEVEL DIMMING</b>	YES
<b>NETWORK TECHNOLOGY</b>	NONE
<b>INSTALLATION TYPE</b>	INTERNAL
<b>DLC LISTED</b>	YES
<b>CONTROL CAPACITY</b>	10 FIXTURES

### IR12 REMOTE



- Sensor Off
- Dim +/-
- Sensor Mode
- Reset Function
- Ambient Learn
- Test Mode

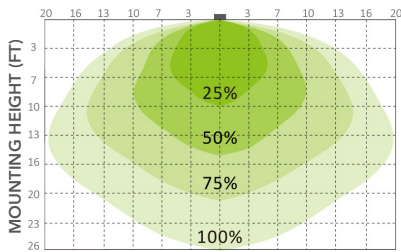
FOR MORE INFORMATION ON THE IR12 REMOTE SCAN BELOW



### DETECTION PATTERN / RC-OCC-HNS111-A

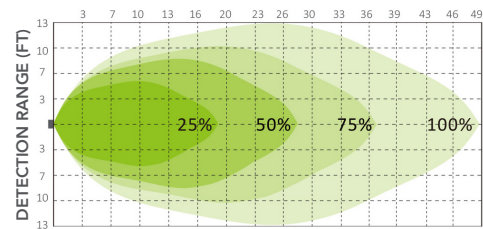
#### CEILING MOUNTING

##### DETECTION RANGE (FT)



#### WALL MOUNTING

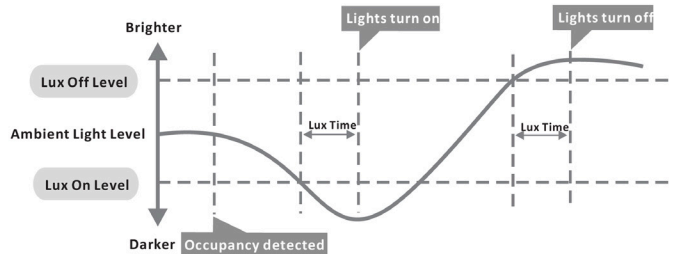
##### DETECTION DISTANCE (FT)



### DAYLIGHT HARVESTING / RC-OCC-HNS111-A

Sensor detects the difference between natural light and artificial light (lamp) from behind the diffuser, switch on automatically (even w/o movements) when the ambient light is below the target value, and switch off automatically whenever the artificial light is not required (ambient light meets target level).

**NOTE** LUX-OFF SAMPLING TIME - 30S. LUX-ON SAMPLING TIME - 10S. LUX-ON FUNCTION WILL ONLY OPERATE WITHOUT MOTION WHEN STANDBY IS SET TO + ∞.





## LIMITED-RANGE MICROWAVE AND DAYLIGHT HARVESTING OCCUPANCY SENSOR

ORDERING **RC-OCLR-HNS11LR-A**, IN ADDITION TO THE LBE PART NUMBER, UPGRADES THE FIXTURE W/ A FACTORY INSTALLED **SIMPLE CONTROL** UTILIZING A MICROWAVE MOTION SENSOR. IT ALSO COMES EQUIPPED W/ A DAYLIGHT HARVESTING SENSOR TO DIM AND/OR TURN OFF THE LBE WHEN THE SPACE IS UNOCCUPIED OR SURROUNDING NATURAL LIGHT LEVELS ARE HIGH.



### ATTRIBUTES

<b>DETECTION TECHNOLOGY</b>	MICROWAVE
<b>DETECTION TYPE</b>	OCCUPANCY
<b>SENSOR POWER</b>	12VDC
<b>GROUPABLE</b>	NO
<b>NETWORK LIGHTING CONTROL</b>	NO
<b>COMMISSIONING METHOD</b>	IR REMOTE
<b>REMOTE</b>	IR12
<b>DAYLIGHT HARVESTING</b>	YES
<b>HI OR LOW TRIM</b>	NO
<b>BI-LEVEL DIMMING</b>	YES
<b>NETWORK TECHNOLOGY</b>	NONE
<b>INSTALLATION TYPE</b>	INTERNAL
<b>DLC LISTED</b>	YES
<b>CONTROL CAPACITY</b>	10 FIXTURES

### IR12 REMOTE



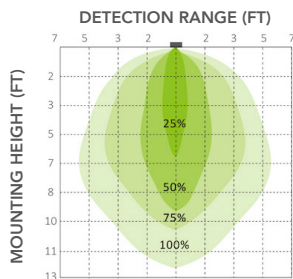
- Sensor Off
- Dim+/-
- Sensor Mode
- Reset Function
- Ambient Learn
- Test Mode

FOR MORE INFORMATION ON THE IR12 REMOTE SCAN BELOW

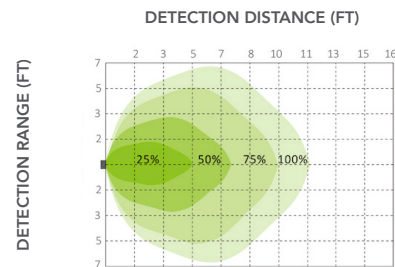


### DETECTION PATTERN / RC-OCLR-HNS11LR-A

#### CEILING MOUNTING



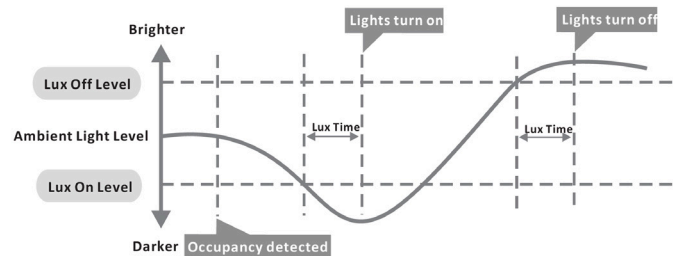
#### WALL MOUNTING



### DAYLIGHT HARVESTING / RC-OCLR-HNS11LR-A

Sensor detects the difference between natural light and artificial light (lamp) from behind the diffuser, switch on automatically (even w/o movements) when the ambient light is below the target value, and switch off automatically whenever the artificial light is not required (ambient light meets target level).

**NOTE** LUX-OFF SAMPLING TIME - 30S. LUX-ON SAMPLING TIME - 10S. LUX-ON FUNCTION WILL ONLY OPERATE WITHOUT MOTION WHEN STANDBY IS SET TO + ∞.





## SILVAIR™ BLUETOOTH MICROWAVE MOTION AND DAYLIGHT HARVESTING SENSOR

ORDERING **RP-OCBT-HNB115MW**, IN ADDITION TO THE LBE PART NUMBER, UPGRADES THE FIXTURE W/ A FACTORY INSTALLED **NETWORK LIGHTING CONTROL**. ONCE CONNECTED THROUGH THE SILVAIR APP, THE BLUETOOTH MICROWAVE MOTION SENSOR AND DAYLIGHT HARVESTING TECHNOLOGY CAN MAXIMIZE ENERGY SAVINGS.



### ATTRIBUTES

<b>DETECTION TECHNOLOGY</b>	MICROWAVE
<b>DETECTION TYPE</b>	OCCUPANCY / VACANCY
<b>SENSOR POWER</b>	12VDC
<b>GROUPABLE</b>	YES
<b>NETWORK LIGHTING CONTROL</b>	YES
<b>COMMISSIONING METHOD</b>	SILVAIR APP + IR REMOTE FOR RANGE SETTING
<b>REMOTE</b>	IR 12
<b>DAYLIGHT HARVESTING</b>	YES
<b>HI OR LOW TRIM</b>	YES
<b>BI-LEVEL DIMMING</b>	YES
<b>NETWORK TECHNOLOGY</b>	SILVAIR BLUETOOTH MESH
<b>INSTALLATION TYPE</b>	INTERNAL
<b>DLC LISTED</b>	YES + DLC NLC
<b>CONTROL CAPACITY</b>	10 FIXTURES

### IR12 REMOTE

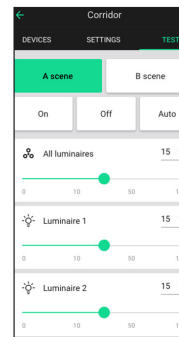


IR REMOTE FOR SENSITIVITY RANGE SETTING ONLY

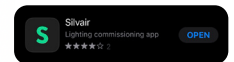


FOR MORE INFO SCAN ABOVE

### SILVAIR APP



SILVAIR IS A SOFTWARE AND COMMISSIONING APP THAT CONNECTS AND CONTROLS LIGHTING FIXTURES USING BLUETOOTH MESH TECHNOLOGY.

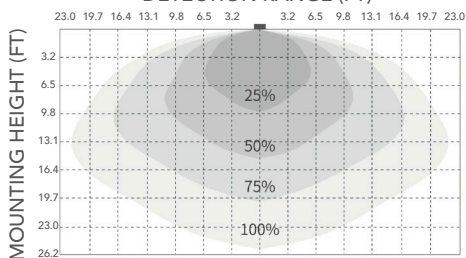


FOR MORE INFO SCAN ABOVE

### DETECTION PATTERN / RP-OCBT-HNB115MW

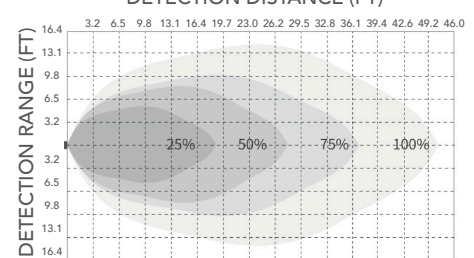
#### CEILING MOUNTING

##### DETECTION RANGE (FT)

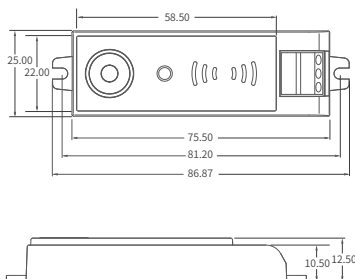


#### WALL MOUNTING

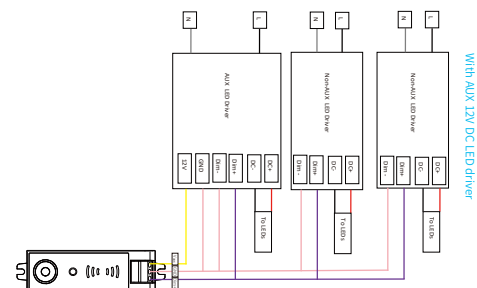
##### DETECTION DISTANCE (FT)



### DIMENSIONS / RC-OCBT-HNB115MW



### WIRING DIAGRAM / RC-OCBT-HNB115MW





## SILVAIR™ BLUETOOTH PASSIVE INFRARED MOTION AND DAYLIGHT HARVESTING SENSOR

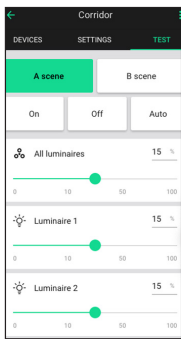
ORDERING **RC-OCCBT-HNB131PIR**, IN ADDITION TO THE LBE PART NUMBER, UPGRADES THE FIXTURE W/ A FACTORY INSTALLED **NETWORK LIGHTING CONTROL**. ONCE CONNECTED THROUGH THE SILVAIR APP, THE BLUETOOTH PIR MOTION SENSOR AND DAYLIGHT HARVESTING TECHNOLOGY CAN MAXIMIZE ENERGY SAVINGS.



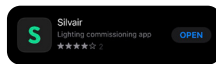
### ATTRIBUTES

<b>DETECTION TECHNOLOGY</b>	PASSIVE INFRARED (PIR)
<b>DETECTION TYPE</b>	OCCUPANCY / VACANCY
<b>SENSOR POWER</b>	12VDC
<b>GROUPABLE</b>	YES
<b>NETWORK LIGHTING CONTROL</b>	YES
<b>COMMISSIONING METHOD</b>	SILVAIR APP
<b>REMOTE</b>	IR 12
<b>DAYLIGHT HARVESTING</b>	YES
<b>HI OR LOW TRIM</b>	YES
<b>BI-LEVEL DIMMING</b>	YES
<b>NETWORK TECHNOLOGY</b>	BLUETOOTH
<b>INSTALLATION TYPE</b>	INTERNAL
<b>DLC LISTED</b>	YES + DLC NLC

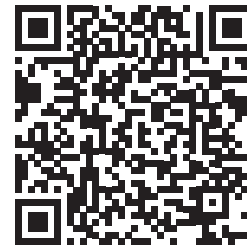
### SILVAIR APP



SILVAIR IS A SOFTWARE AND COMMISSIONING APP THAT CONNECTS AND CONTROLS LIGHTING FIXTURES USING BLUETOOTH MESH TECHNOLOGY.

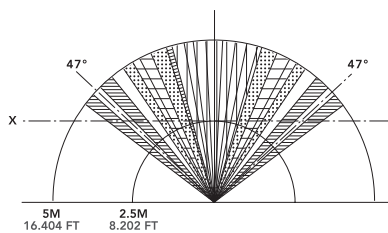


FOR MORE INFORMATION ON THE SILVAIR APP SCAN BELOW

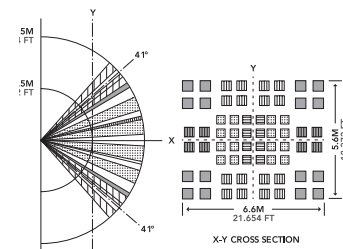


### DETECTION PATTERN

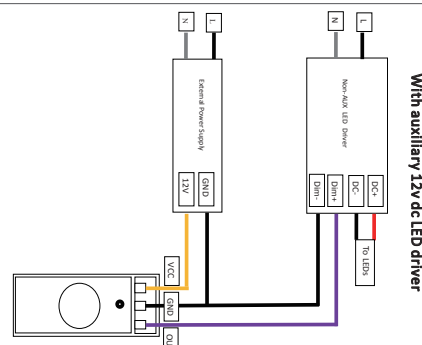
#### TOP VIEW



#### SIDE VIEW



### WIRING DIAGRAM / RC-OCCBT-HNB131PIR





## SILVAIR™ BLUETOOTH PASSIVE INFRARED EXTERNAL ARM SENSOR

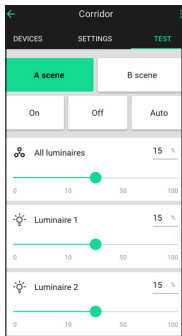
ORDERING / **RP-OCCBT-Z10-ARM-HNB178-W**, IN ADDITION TO THE LBE PART NUMBER, UPGRADES THE FIXTURE W/ A FACTORY INSTALLED **NETWORK LIGHTING CONTROL**. CONNECT THROUGH THE SILVAIR APP ON ROBUST BLUETOOTH MESH. CAN BE PAIRED W/ A SWITCH FOR WIRELESS DIMMING CONTROL OR CONNECT TO OTHER FIXTURES W/ SENSORS TO MAXIMIZE COST SAVINGS.



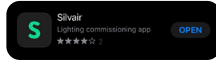
### ATTRIBUTES

<b>DETECTION TECHNOLOGY</b>	NONE
<b>DETECTION TYPE</b>	NONE
<b>SENSOR POWER</b>	12VDC
<b>GROUPABLE</b>	YES
<b>NETWORK LIGHTING CONTROL</b>	YES
<b>COMMISSIONING METHOD</b>	NONE
<b>REMOTE</b>	SILVAIR APP
<b>DAYLIGHT HARVESTING</b>	NO
<b>HI OR LOW TRIM</b>	YES
<b>BI-LEVEL DIMMING</b>	NO
<b>NETWORK TECHNOLOGY</b>	BLUETOOTH
<b>INSTALLATION TYPE</b>	INTERNAL
<b>DLC LISTED</b>	YES + DLC NLC

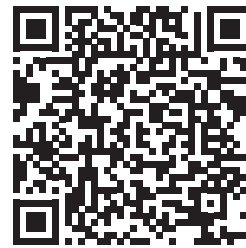
### SILVAIR APP



SILVAIR IS A SOFTWARE AND COMMISSIONING APP THAT CONNECTS AND CONTROLS LIGHTING FIXTURES USING BLUETOOTH MESH TECHNOLOGY.

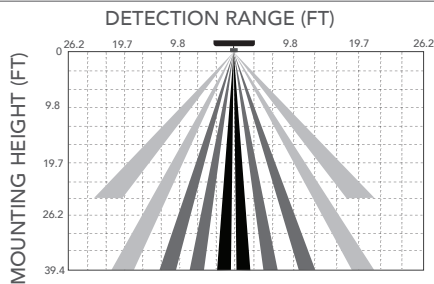


FOR MORE INFORMATION ON THE SILVAIR APP SCAN BELOW

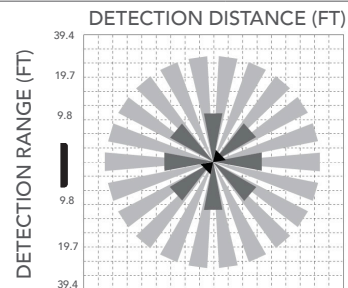


### DETECTION PATTERN / RP-OCCBT-Z10-ARM-HNB178-W

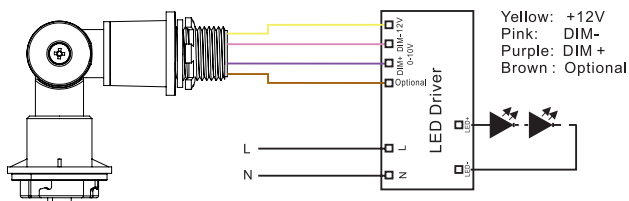
#### CEILING MOUNTING



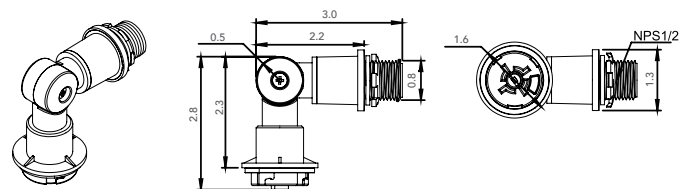
#### WALL MOUNTING



### ARM WIRING DIAGRAM



### ARM DIMENSIONS (IN)





## SILVAIR™ BLUETOOTH CONTROL NODE

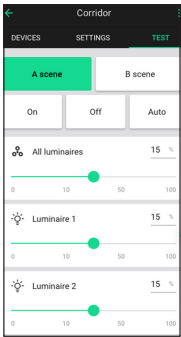
ORDERING **RC-BT-HNB131CTL**, IN ADDITION TO THE LBE PART NUMBER, UPGRADES THE FIXTURE W/ A FACTORY INSTALLED **NETWORK LIGHTING CONTROL**. CONNECT THROUGH THE SILVAIR APP ON ROBUST BLUETOOTH MESH. CAN BE PAIRED W/ A SWITCH FOR WIRELESS DIMMING CONTROL OR CONNECT TO OTHER FIXTURES WITH SENSORS TO MAXIMIZE COST SAVINGS.



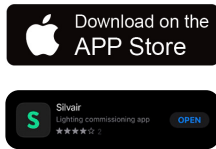
### ATTRIBUTES

<b>DETECTION TECHNOLOGY</b>	NONE
<b>DETECTION TYPE</b>	NONE
<b>SENSOR POWER</b>	12VDC
<b>GROUPABLE</b>	YES
<b>NETWORK LIGHTING CONTROL</b>	YES
<b>COMMISSIONING METHOD</b>	NONE
<b>REMOTE</b>	SILVAIR APP
<b>DAYLIGHT HARVESTING</b>	NO
<b>HI OR LOW TRIM</b>	YES
<b>BI-LEVEL DIMMING</b>	NO
<b>NETWORK TECHNOLOGY</b>	BLUETOOTH
<b>INSTALLATION TYPE</b>	INTERNAL
<b>DLC LISTED</b>	YES + DLC NLC

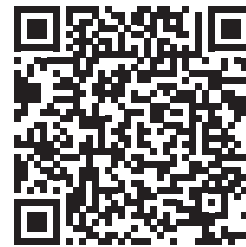
### SILVAIR APP



SILVAIR IS A SOFTWARE AND COMMISSIONING APP THAT CONNECTS AND CONTROLS LIGHTING FIXTURES USING BLUETOOTH MESH TECHNOLOGY.



FOR MORE INFORMATION ON THE SILVAIR APP SCAN BELOW





## SILVAIR™ BLUETOOTH NODE W/ EXTERNAL ANTENNA

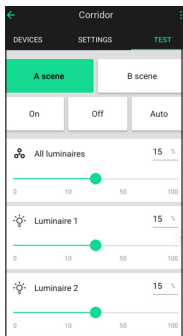
ORDERING **RC-BTX-HNB136**, IN ADDITION TO THE LBE PART NUMBER, UPGRADES THE FIXTURE W/ A FACTORY INSTALLED **NETWORK LIGHTING CONTROL**. CONNECT THROUGH THE SILVAIR APP ON ROBUST BLUETOOTH MESH. CAN BE PAIRED W/ A SWITCH FOR WIRELESS DIMMING CONTROL OR CONNECT TO OTHER FIXTURES WITH SENSORS TO MAXIMIZE COST SAVINGS.



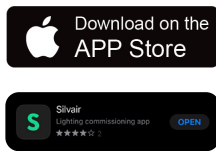
### ATTRIBUTES

<b>DETECTION TECHNOLOGY</b>	NONE
<b>DETECTION TYPE</b>	NONE
<b>SENSOR POWER</b>	12VDC
<b>GROUPABLE</b>	YES
<b>NETWORK LIGHTING CONTROL</b>	YES
<b>COMMISSIONING METHOD</b>	NONE
<b>REMOTE</b>	SILVAIR APP
<b>DAYLIGHT HARVESTING</b>	NO
<b>HI OR LOW TRIM</b>	YES
<b>BI-LEVEL DIMMING</b>	NO
<b>NETWORK TECHNOLOGY</b>	BLUETOOTH
<b>INSTALLATION TYPE</b>	INTERNAL
<b>DLC LISTED</b>	YES + DLC NLC

### SILVAIR APP

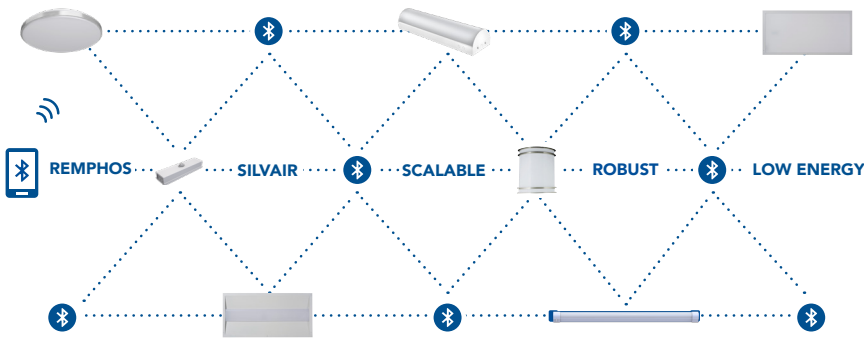


SILVAIR IS A SOFTWARE AND COMMISSIONING APP THAT CONNECTS AND CONTROLS LIGHTING FIXTURES USING BLUETOOTH MESH TECHNOLOGY.



FOR MORE INFORMATION ON THE SILVAIR APP SCAN BELOW





## WHAT IS SILVAIR?

Silvaire is a software and commissioning app that connects and controls lighting fixtures using Bluetooth mesh technology.

## HOW DOES IT CONNECT?

Silvaire can be set up in advance through the cloud and the Silvaire portal. It can also be commissioned in the field with the IOS app.

## DOWNLOAD SILVAIR APPS



MOBILE APP Apple App Store  
or  
WEB APP [platform.silvaire.com](http://platform.silvaire.com)

