



# 2017 LG Lighting Catalog



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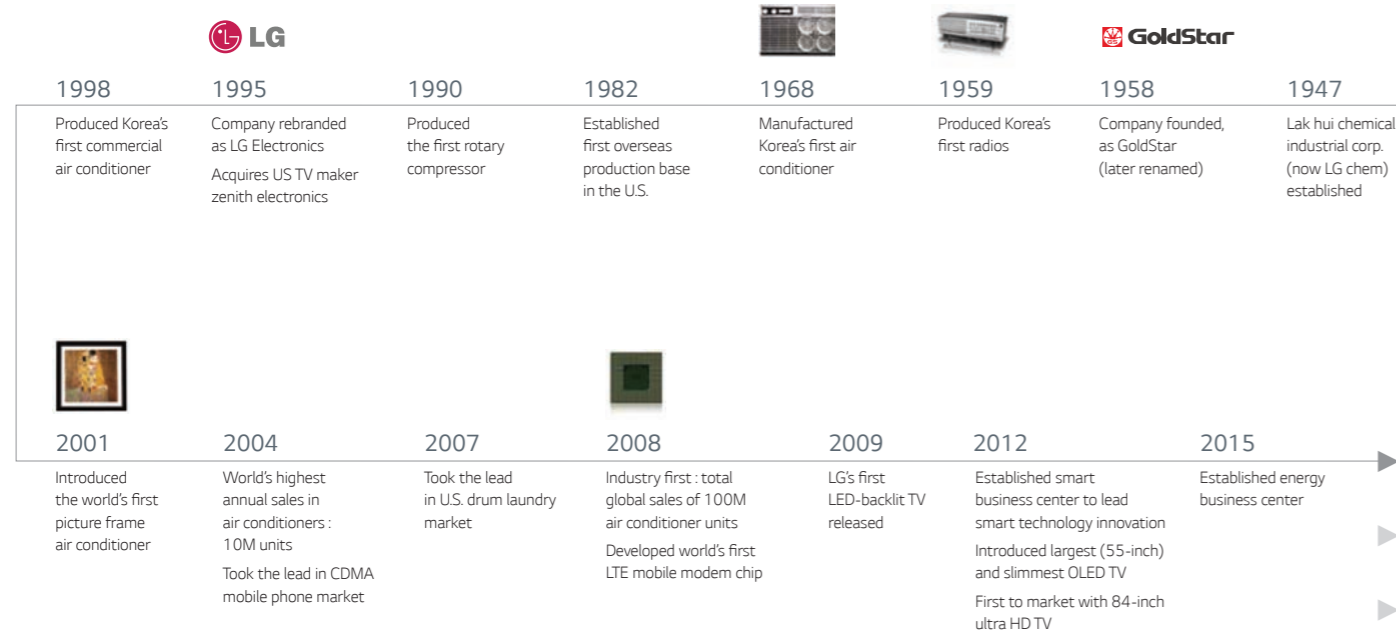
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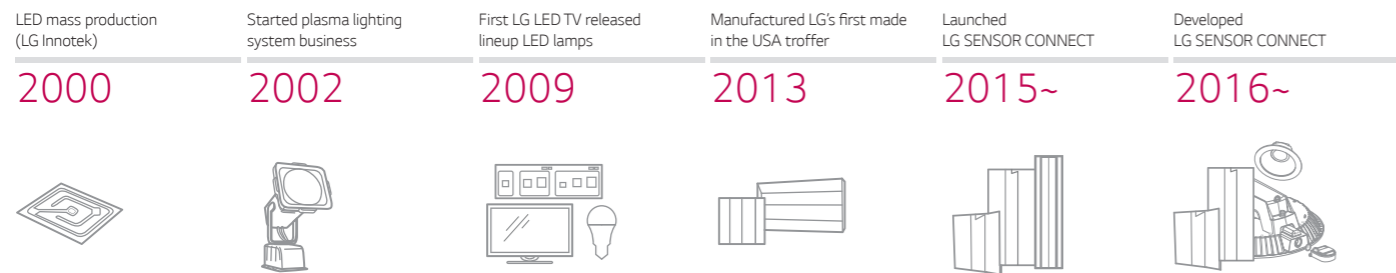
# LG Electronics : A History of Innovation



Since 1947, LG Electronics has enjoyed a legacy of innovation, developing exceptional products that meet customers' needs while exceeding their expectations. Now, LG has brought that expertise to LED lighting, offering designers, property owners and contractors versatile retrofit options while assuring significant energy savings and fast payback with long-term return on investment.

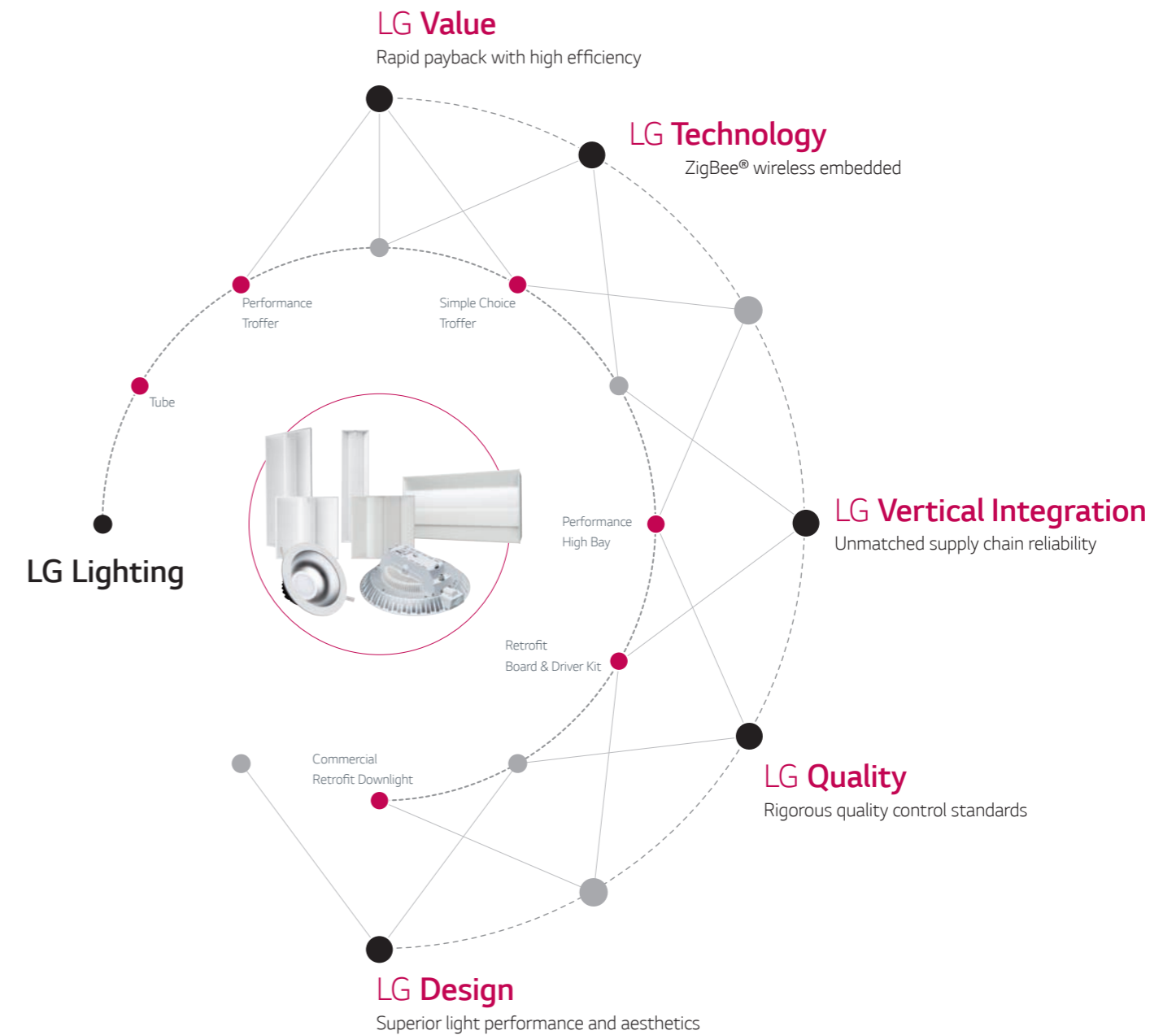


## LG Lighting



# The LG Lighting Difference

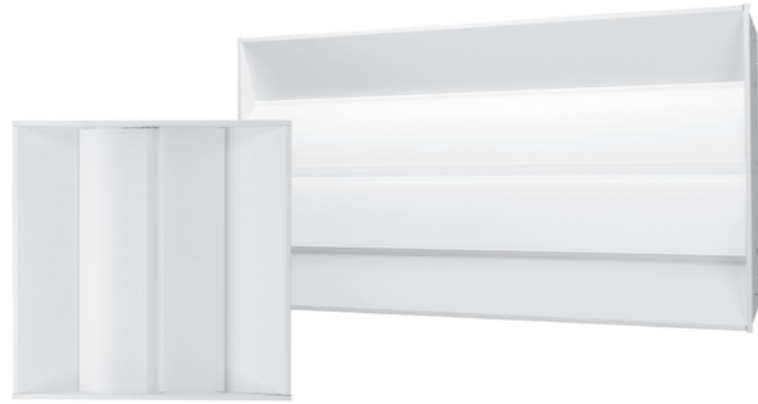
LG is focused on driving profitability and payback in your retrofit project. That means increasing the return on investment with the highest efficacy troffers listed on the DLC. That efficiency pays back both in terms of reduced energy consumption and improved incentive eligibility. Improving payback is also about reducing first install costs by making installation easier. LG is also focused on protect your project budget and timeline by delivering products that meet rigorous quality controls using a vertically integrated supply chain.



# Performance Troffer Lay-in / Retrofit

## Features

- Available in T-bar lay-in and retrofit
- Retrofit versions can be installed in 5–7 minutes, retaining the backframe of the existing luminaire
- High system efficacy up to 133 lm/W
- Diffuser with large luminous area provides soft light and visual comfort
- Standard 0-10 V dimming
- Wireless lighting control ready (ZigBee®)
- Lumen maintenance of L80 at 70,000 hours
- 5-year warranty
- Made in USA



## Quick upgrade solution (retrofit fixture)

Retrofit fixtures can be installed simply in 5-7 minutes, using mounting brackets that attach to the existing housing. This retrofit solution saves on labor costs while delivering the aesthetics and light performance of a brand new LED fixture.

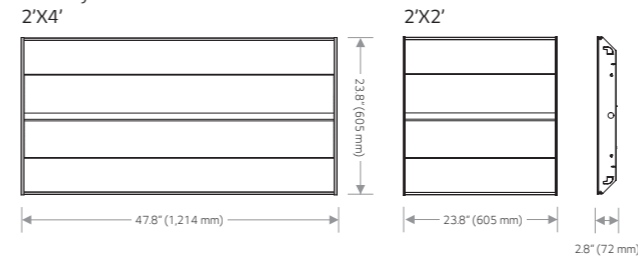


## Occupancy sensing & daylight harvesting

- No re-circuiting or mounting for sensors
- Wireless control
- Pre-programmed optimal values
- Sensor's capabilities
  - Standalone Mode
    - Default = Max : 80%, Mid : 80%, Min : 0%
    - Multi Sensor Light Level can be modified to the following:
      - ▷ Press Light Level button x1 = Max : 60%, Mid: 60%, Min: 0%
      - ▷ Press Light Level button x2 = Max : 40%, Mid: 40%, Min: 0%
      - ▷ Press Light Level button x3 = Max : 20%, Mid: 20%, Min: 0%
      - ▷ Press Light Level button x4 = Max : 100%, Mid: 100%, Min: 0%
  - Sensor Connect (commissioned with App):
    - ▷ Full-range dimming using LG App, LG wireless switch or 3<sup>rd</sup> party 0-10 V dimmer
  - 3<sup>rd</sup> party ZigBee Control Software
    - ▷ Full-range dimming

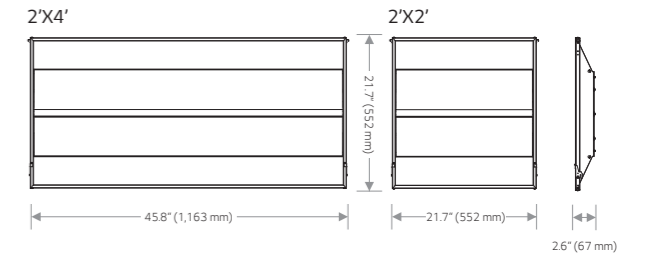
## Dimension

T-Bar lay-in  
2'X4'

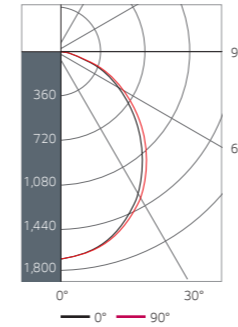


2'X2'

Retrofit  
2'X4'



## Photometrics



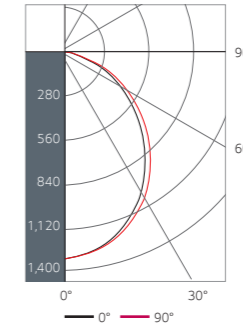
Coefficients of utilization - zonal cavity method

Effective floor cavity reflectance		0.20									
RC	80	70	50	30	10	50	30	10	50	30	10
RW	70	50	30	10	70	50	30	10	50	30	10
0	119	119	119	119	116	116	116	111	111	111	106
1	109	105	101	97	107	102	99	95	98	95	92
2	100	92	85	80	97	90	84	79	86	81	77
3	91	81	73	67	89	79	72	66	76	70	65
4	84	72	63	57	81	71	63	56	68	61	56
5	77	64	56	49	75	63	55	49	61	54	48
6	71	58	49	43	69	57	49	43	55	48	43
7	66	53	44	38	64	52	44	38	51	43	38
8	62	48	40	34	60	48	40	34	46	39	34
9	58	44	36	31	56	44	36	31	43	36	31
10	54	41	33	28	53	41	33	28	40	33	28

Zonal lumen summary

Zone	Lumens	% Fixture
0-20	623	14.2
0-30	1311	29.8
0-40	2117	48.1
0-60	3588	81.6
0-80	4337	98.6
0-90	4398	100

Test : Troffer 34W (2'X4') 3500K  
Lumen : 4400 lm  
Spacing creation (0-180) : 1.20  
Spacing creation (90-270) : 1.22



Coefficients of utilization - zonal cavity method

Effective floor cavity reflectance		0.20									
RC	80	70	50	30	10	50	30	10	50	30	10
RW	70	50	30	10	70	50	30	10	50	30	10
0	119	119	119	116	116	116	111	111	111	106	106
1	109	105	101	97	107	103	99	96	98	95	92
2	100	92	86	80	97	90	84	79	87	82	77
3	92	81	74	67	89	80	73	67	77	71	65
4	84	72	64	57	82	71	63	57	69	62	56
5	77	65	56	50	75	64	56	50	62	55	49
6	72	59	50	44	70	59	43	37	54	48	43
7	67	53	45	39	65	53	44	39	51	44	38
8	62	49	40	35	60	48	40	35	47	40	34
9	58	45	37	31	57	44	37	31	43	36	31
10	54	41	34	28	53	41	33	28	40	33	28

Zonal lumen summary

Zone	Lumens	% Fixture
0-20	487	14.4
0-30	1026	30.3
0-40	1655	48.9
0-60	2787	82.4
0-80	3338	98.7
0-90	3382	100

Test : Troffer 26W (2'X2') 3500K  
Lumen : 3380 lm  
Spacing creation (0-180) : 1.20  
Spacing creation (90-270) : 1.22

## Specifications & Ordering Information

Product type	Model code (US order code)	Input power	CCT	Delivered light output	Efficacy	Beam angle	Optical unit	Dimensions	Weight	Life span	Controls			
		W	K	lm	lm/W	°	-	inch (mm)	lb (kg)	hrs	-			
T-Bar lay-in fixture	FRS618D2H0A.BUAAWAA (LGE-2X2RT-18-35-2350-TB)	18	3500	2350	131	105	Frost (PMMA)	23.8X23.8X2.8 (605X605X72)	9.0 (4.1)	50,000 @L85	0-10 V (ZigBee ready)			
	FRS618D3H0A.BUAAWAA (LGE-2X2RT-18-40-2400-TB)		4000	2400	133									
	FRR626D2H0A.BUAAWAA (LGE-2X4RT-26-35-3400-TB)	26	3500	3380	130									
	FRR626D3H0A.BUAAWAA (LGE-2X4RT-26-40-3400-TB)		4000	3400	131									
FRR634D2H0B.BUAAWAA (LGE-2X4RT-34-35-4400-TB)	34	3500	4400	129										
FRR634D3H0B.BUAAWAA (LGE-2X4RT-34-40-4500-TB)		4000	4500	132										
Retrofit fixture	FRS618D2HRA.BUAAWBB (LGE-2X2RT-18-35-2350-R(W))	18	3500	2350	131			105	Frost (PMMA)		21.7X21.7X2.6 (552X552X67)	7.5 (3.4)	70,000 @L80	0-10 V (ZigBee ready)
	FRS618D3HRA.BUAAWBB (LGE-2X2RT-18-40-2400-R(W))		4000	2400	133									
	FRS626D2HRB.BUAAWBB (LGE-2X2RT-26-35-3400-R(W))	26	3500	3380	130									
	FRS626D3HRB.BUAAWBB (LGE-2X2RT-26-40-3400-R(W))		4000	3400	131									
FRR634D2HRD.BUAAWBB (LGE-2X4RT-34-35-4400-R2(W))	34	3500	4400	129										
FRR634D3HRD.BUAAWBB (LGE-2X4RT-34-40-4500-R2(W))		4000	4500	132										
Retrofit fixture with Sensor	FRS626D2HRC.BUAAWBB (LGE-2X2RT-26-35-3400-R(W)-SN)	26	3500	3380	130	105	Frost (PMMA)			21.7X21.7X2.6 (552X552X67)	7.9 (3.6)	70,000 @L80		ZigBee
	FRS626D3HRC.BUAAWBB (LGE-2X2RT-26-40-3400-R(W)-SN)		4000	3400	131									
	FRR634D2HRC.BUAAWBB (LGE-2X4RT-34-35-4400-R(W)-SN)	34	3500	4400	129									
	FRR634D3HRC.BUAAWBB (LGE-2X4RT-34-40-4500-R(W)-SN)		4000	4500	132									

⊙ CRI : 82, Input voltage : 120 ~ 277 Vac, Power factor : ≥0.9, Operating temperature : -4 ~ 122 °F (-20 ~ 50 °C)  
⊙ When utilizing integral ZigBee wireless controls, the optional 0-10 V dimming is deactivated

## Compliance

### T-Bar lay-in fixture

- cULus Listed to UL 1598, suitable for damp location use
- DesignLights Consortium qualified products
- Based on photometric testing consistent with IES LM-79

### Retrofit fixture

- cULus Classified to UL 1598C, suitable for damp location use
- DesignLights Consortium qualified products
- Based on photometric testing consistent with IES LM-79



# Simple Choice Troffer Lay-in

## Features

- System efficacy up to 132 lm/W
- Standard 0-10 V dimming
- Wireless lighting control ready (ZigBee®)
- Sensor-embedded (occupancy sensing & daylight harvesting) models are available for additional energy savings
- Lumen maintenance of L80 at 70,000 hours
- 5-year warranty



## Occupancy sensing & daylight harvesting

- No re-circuiting or mounting for sensors
- Wireless control
- Pre-programmed optimal values
- Sensor's capabilities
  - Standalone Mode
    - Default = Max : 80%, Mid : 80%, Min : 0%
    - Multi Sensor Light Level can be modified to the following:
      - ▷ Press Light Level button x1 = Max : 60%, Mid: 60%, Min: 0%
      - ▷ Press Light Level button x2 = Max : 40%, Mid: 40%, Min: 0%
      - ▷ Press Light Level button x3 = Max : 20%, Mid: 20%, Min: 0%
      - ▷ Press Light Level button x4 = Max : 100%, Mid: 100%, Min: 0%
  - Sensor Connect (commissioned with App):
    - ▷ Full-range dimming using LG App, LG wireless switch or 3<sup>rd</sup> party 0-10 V dimmer
  - 3<sup>rd</sup> party ZigBee Control Software
    - ▷ Full-range dimming



## Rugged housing

The rugged housing does not easily get distorted when handled and the matt finish prevents fingerprints.

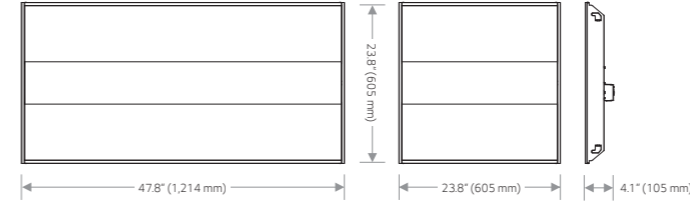
## Soft light

When looking directly at the luminaire, the light is soft with low glare.

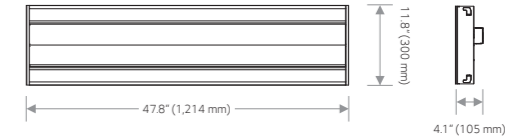


## Dimension

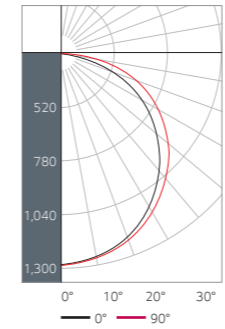
T-Bar lay-in  
2'X4'



1'X4'



## Photometrics



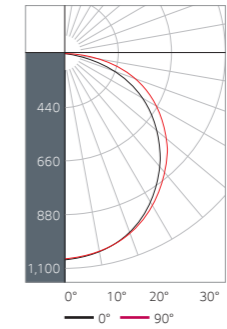
### Coefficients of utilization - zonal cavity method

Effective floor cavity reflectance		0.20										
RC	80	70	50	30	10	50	30	10	50	30	10	
RW	70	50	30	10	70	50	30	10	50	30	10	0
0	110	119	119	119	116	116	116	111	111	111	106	106
1	108	103	98	94	105	101	96	93	96	93	90	87
2	98	89	82	76	95	87	80	75	83	78	73	80
3	89	78	69	62	86	76	68	62	73	66	61	70
4	81	68	59	52	79	67	59	52	65	57	51	62
5	74	61	52	45	72	60	51	45	58	50	44	56
6	69	55	46	39	67	54	45	39	52	44	38	50
7	63	50	41	34	62	49	40	34	47	39	34	46
8	59	45	36	30	57	44	36	30	43	36	30	41
9	55	41	33	27	54	41	33	27	40	32	27	37
10	52	38	30	25	50	38	30	25	37	29	25	36

### Zonal lumen summary

Zone	Lumens	%Fixture
0-20	474	11.8
0-30	1009	25.2
0-40	1661	41.5
0-60	3009	75.2
0-80	3906	97.6
0-90	4003	100

Test : Troffer 31W (2'X4') 3500K  
Lumen : 4050 lm  
Spacing creation (0-180) : 1.26  
Spacing creation (90-270) : 1.28



### Coefficients of utilization - zonal cavity method

Effective floor cavity reflectance		0.20										
RC	80	70	50	30	10	50	30	10	50	30	10	
RW	70	50	30	10	70	50	30	10	50	30	10	0
0	110	119	119	119	116	116	116	111	111	111	106	106
1	108	103	98	94	105	101	96	93	97	93	90	87
2	98	89	82	76	95	87	80	75	84	78	74	81
3	89	78	70	63	87	77	69	62	73	67	61	71
4	81	69	60	53	79	68	59	53	65	58	52	63
5	75	61	52	45	73	60	52	45	58	50	44	54
6	69	55	46	39	67	54	46	39	52	45	39	51
7	64	50	41	35	62	49	41	35	48	40	34	46
8	59	46	37	31	58	45	37	31	43	36	31	42
9	55	42	33	28	54	41	33	28	40	33	27	38
10	52	38	30	25	51	38	30	25	37	30	25	36

### Zonal lumen summary

Zone	Lumens	%Fixture
0-20	386	12.1
0-30	822	25.7
0-40	1351	42.2
0-60	2437	76.1
0-80	3135	97.9
0-90	3202	100

Test : Troffer 25W (2'X2') 3500K  
Lumen : 3250 lm  
Spacing creation (0-180) : 1.26  
Spacing creation (90-270) : 1.28

## Specifications & Ordering Information

Product type	Model code (US order code)	Input power	CCT	Delivered light output	Efficacy	Beam angle	Optical unit	Dimensions		Weight	Life span	Controls
								inch (mm)	lb (kg)			
T-bar Lay-in fixture	F4035TB1 131.BUAAWAA (LGE-1X4SI-40-35-4000-TB)	40	3500	4000	100	120	White (PC)	11.8X47.8X4.14 (300X1,214X105)	7.9 (3.6)	50,000 @L80	0-10 V (ZigBee ready)	
	F4040TB1 131.BUAAWAA (LGE-1X4SI-40-40-4000-TB)	40	4000	4000	100							
	FRS632D2H0B.BUAAWAA (LGE-2X2SI-32-35-3200-TB)	32	3500	3200	100							
	FRS632D3H0B.BUAAWAA (LGE-2X2SI-32-40-3200-TB)	32	4000	3200	100							
	F2435TB1 111.BUAAWAA (LGE-2X2SI-25-35-3200-TB)	25	3500	3250	130*							
	F2440TB1 111.BUAAWAA (LGE-2X2SI-25-40-3200-TB)	25	4000	3270	130*							
	FRR640D2H0A.BUAAWAA (LGE-2X4SI-40-35-4000-TB)	40	3500	4000	100							
	FRR640D3H0A.BUAAWAA (LGE-2X4SI-40-40-4000-TB)	40	4000	4000	100							
	F3035TB1 111.BUAAWAA (LGE-2X4SI-31-35-4000-TB)	31	3500	4050	130*							
	F3040TB1 111.BUAAWAA (LGE-2X4SI-31-40-4000-TB)	31	4000	4100	132*							
T-bar Lay-in fixture with Sensor	F4035TB1S31.BUAAWAA (LGE-1X4SC-40-35-4000-TB)	40	3500	4000	100	120	White (PC)	11.8X47.8X4.14 (300X1,214X105)	8.4 (3.8)	50,000 @L80	ZigBee	
	F4040TB1S31.BUAAWAA (LGE-1X4SC-40-40-4000-TB)	40	4000	4000	100							
	FRS632D2H0C.BUAAWAA (LGE-2X2SC-32-35-3200-TB)	32	3500	3200	100							
	FRS632D3H0C.BUAAWAA (LGE-2X2SC-32-40-3200-TB)	32	4000	3200	100							
	F2435TB1S41.BUAAWAA (LGE-2X2SC-25-35-3200-TB)	25	3500	3250	130*							
	F2440TB1S41.BUAAWAA (LGE-2X2SC-25-40-3200-TB)	25	4000	3270	130*							
	FRR640D2H0C.BUAAWAA (LGE-2X4SC-40-35-4000-TB)	40	3500	4000	100							
	FRR640D3H0C.BUAAWAA (LGE-2X4SC-40-40-4000-TB)	40	4000	4000	100							
	F3035TB1S11.BUAAWAA (LGE-2X4SC-31-35-4000-TB)	31	3500	4050	130*							
	F3040TB1S11.BUAAWAA (LGE-2X4SC-31-40-4000-TB)	31	4000	4100	132*							

⊙ CRI : 82, Input voltage : 120 ~ 277 Vac, Power factor : ≥0.9, Operating temperature : -4 ~ 104 °F (-20 ~ 40 °C)  
⊙ When utilizing integral ZigBee wireless controls, the optional 0-10 V dimming is deactivated

## Compliance

- cULus Listed to UL 1598, suitable for damp location use (2'X4' / 2'X2')
- cETLus Listed to UL 1598, suitable for damp location use (1'X4')
- DesignLights Consortium qualified products
- Based on photometric testing consistent with IES LM-79
- \*: DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.



# Simple Choice Troffer Retrofit

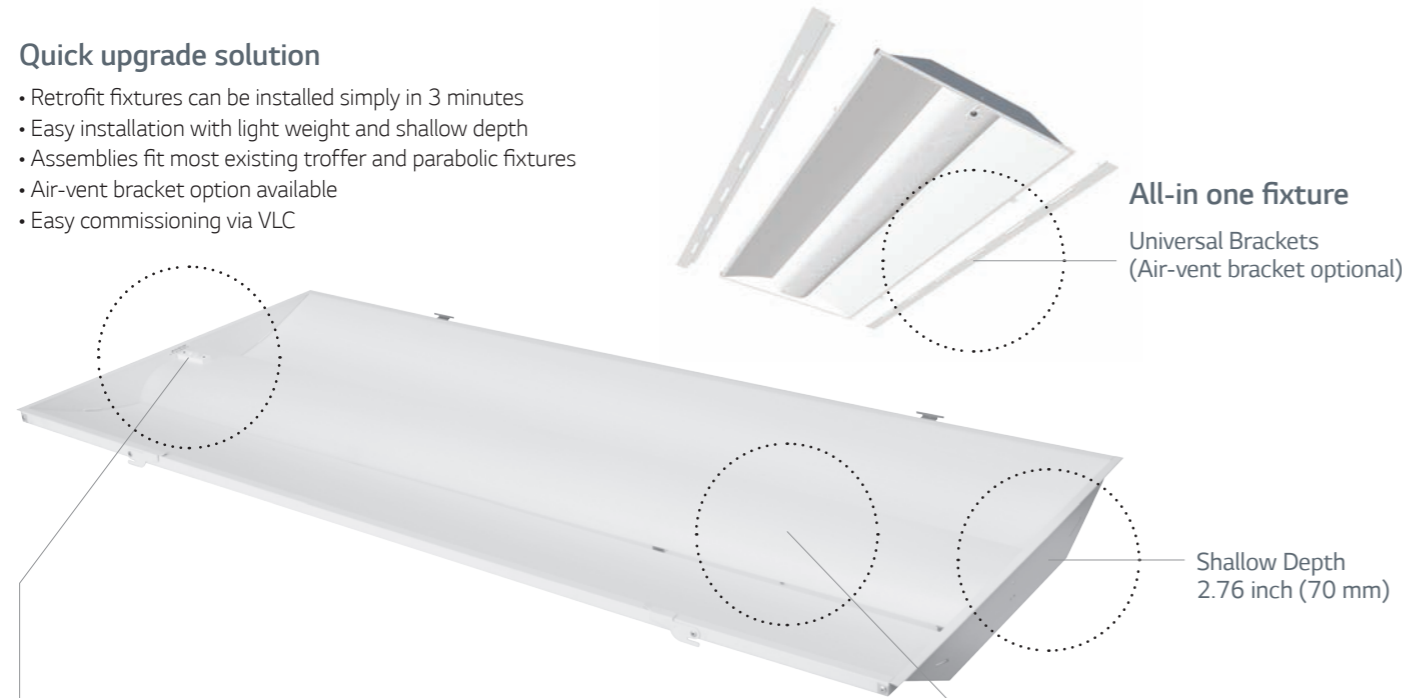
## Features

- All-in one fixture can be installed in 3 minutes
- System efficacy up to 130 lm/W
- Standard 0-10V dimming
- Wireless lighting control ready (ZigBee®)
- Sensor-embedded (occupancy sensing & daylight harvesting) models are available for additional energy savings
- Lumen maintenance of L80 at 70,000 hours
- 5-year warranty



## Quick upgrade solution

- Retrofit fixtures can be installed simply in 3 minutes
- Easy installation with light weight and shallow depth
- Assemblies fit most existing troffer and parabolic fixtures
- Air-vent bracket option available
- Easy commissioning via VLC



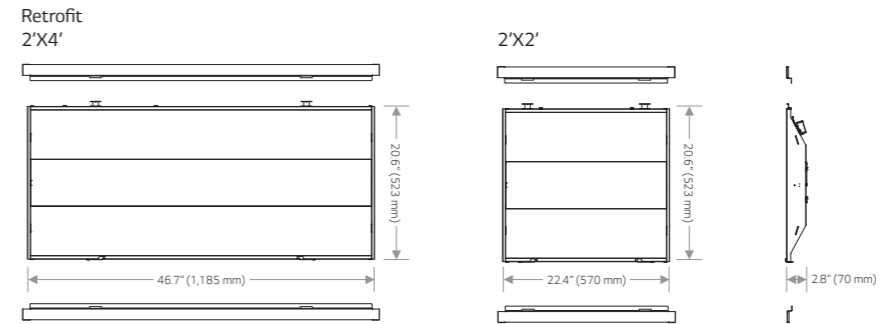
## Occupancy sensing & daylight harvesting

- No re-circuiting or mounting for sensors
- Wireless control
- Pre-programmed optimal values
- Sensor's capabilities
  - Standalone Mode
    - Default = Max : 80%, Mid : 80%, Min : 0%
    - Multi Sensor Light Level can be modified to the following:
      - ▷ Press Light Level button x1 = Max : 60%, Mid: 60%, Min: 0%
      - ▷ Press Light Level button x2 = Max : 40%, Mid: 40%, Min: 0%
      - ▷ Press Light Level button x3 = Max : 20%, Mid: 20%, Min: 0%
      - ▷ Press Light Level button x4 = Max : 100%, Mid: 100%, Min: 0%
  - Sensor Connect (commissioned with App):
    - ▷ Full-range dimming using LG App, LG wireless switch or 3<sup>rd</sup> party 0-10 V dimmer
  - 3<sup>rd</sup> party ZigBee Control Software
    - ▷ Full-range dimming

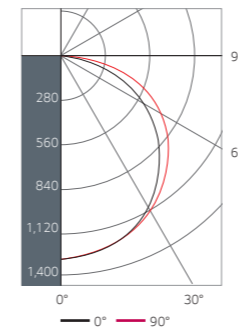
## Soft light

When looking directly at the luminaire, The light is soft with low glare

## Dimension



## Photometrics



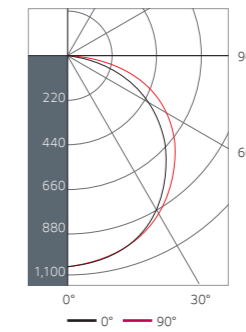
### Coefficients of utilization - zonal cavity method

Effective floor cavity reflectance	0.20												
	RC	70	50	30	10	70	50	30	10	50	30	10	0
D	119	119	119	119	116	116	116	116	111	111	111	106	106
1	108	103	98	94	105	101	96	93	96	93	90	92	90
2	98	89	82	76	95	87	80	75	83	78	73	80	75
3	89	78	69	62	86	76	68	62	73	66	61	70	64
4	81	68	59	52	79	67	59	52	65	57	51	62	56
5	74	61	52	45	72	60	51	45	58	50	44	56	49
6	68	55	46	39	67	54	45	39	52	44	38	50	43
7	63	50	41	34	62	49	40	34	47	39	34	46	39
8	59	45	36	30	57	44	36	30	43	36	30	42	35
9	55	41	33	27	54	41	33	27	40	32	27	38	31
10	52	38	30	25	50	38	30	25	37	29	25	36	29

### Zonal lumen summary

Zone	Lumens	%Fixture
0-20	479	11.8
0-30	1020	25.2
0-40	1681	41.5
0-60	3050	75.4
0-80	3953	97.6
0-90	4048	100

Test : Troffer 31W (2'X4') 3500K  
Lumen : 4050 lm  
Spacing creation (0-180) : 1.28  
Spacing creation (90-270) : 1.26



### Coefficients of utilization - zonal cavity method

Effective floor cavity reflectance	0.20												
	RC	70	50	30	10	70	50	30	10	50	30	10	0
D	119	119	119	119	116	116	116	116	111	111	111	106	106
1	108	103	98	94	105	101	97	93	96	93	90	92	90
2	98	89	82	76	95	87	81	75	84	78	73	80	76
3	89	78	69	62	86	76	68	62	73	66	61	70	65
4	81	69	60	53	79	67	59	52	65	57	51	62	56
5	74	61	52	45	72	60	51	45	58	50	44	56	49
6	68	55	46	39	67	54	45	39	52	44	39	50	44
7	64	50	41	34	62	49	40	34	47	40	34	46	39
8	59	45	37	31	58	45	36	31	43	36	30	42	35
9	55	42	33	28	54	41	33	27	40	32	27	38	31
10	52	38	30	25	50	38	30	25	37	30	25	36	29

### Zonal lumen summary

Zone	Lumens	%Fixture
0-20	388	12.0
0-30	827	25.5
0-40	1361	41.9
0-60	2462	75.9
0-80	3174	97.8
0-90	3245	100

Test : Troffer 25W (2'X2') 3500K  
Lumen : 3250 lm  
Spacing creation (0-180) : 1.26  
Spacing creation (90-270) : 1.30

## Specifications & Ordering Information

Product type	Model code (US order code)	Input power	CCT	Delivered light output	Efficacy	Beam Angle	Optical unit	Dimensions	Weight	Life span	Controls
		W	K	lm	lm/W	°	-	inch (mm)	lb (kg)	hrs	-
Retrofit Fixture [VLC]	F2435RB1141.AOWB0V1 (LGE-2X2SI-25-35-3200-RV)	25	3500	3250	130	120	White (PC)	20.6x22.4x2.8 (523x570x70)	7.9 (3.6)	70,000 @L80, 36,000 @L90	0-10 V (ZigBee ready)
	F2440RB1141.AOWB0V1 (LGE-2X2SI-25-40-3200-RV)										
	F3035RB1111.AOWB0V1 (LGE-2X4SI-31-35-4000-RV)	31	3500	4050	130						
	F3040RB1111.AOWB0V1 (LGE-2X4SI-31-40-4000-RV)							4000	4050		
Retrofit Fixture with Sensor [VLC]	F2435RB1S41.AOWB0V1 (LGE-2X2SC-25-35-3200-RV)	25	3500	3250	130	120	White (PC)	20.6x22.4x2.8 (523x570x70)	7.9 (3.6)	70,000 @L80, 36,000 @L90	ZigBee
	F2440RB1S41.AOWB0V1 (LGE-2X2SC-25-40-3200-RV)										
	F3035RB1S11.AOWB0V1 (LGE-2X4SC-31-35-4000-RV)	31	3500	4050	130						
	F3040RB1S11.AOWB0V1 (LGE-2X4SC-31-40-4000-RV)							4000	4050		

© CRI : 82, Input voltage : 120 ~ 277 Vac, Power factor : ≥0.9, Operating temperature : -4 ~ 104 °F (-20 ~ 40 °C)  
© When utilizing integral ZigBee wireless controls, the optional 0-10 V dimming is deactivated

## Compliance

- cULus Classified to UL 1598C, suitable for damp location use
- Based on photometric testing consistent with IES LM-79



# Commercial Retrofit Downlight

## Features

- High efficacy of 90 lm/W
- Aluminum reflector & trim
- Mounts into existing recessed frame
- Easy disconnect for easy installation
- Wireless lighting control ready (ZigBee®)
- Enabled Smart Multi Sensor
- Lumen maintenance of L85 at 50,000 hours

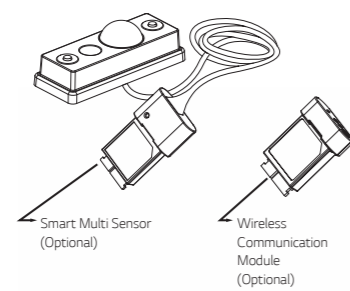
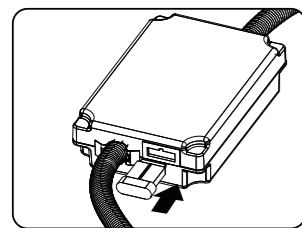


## Wireless Dimming (Optional)

Remove the dongle cover on the driver then insert the LG wireless communication module connected to LG Smart Multi Sensor.

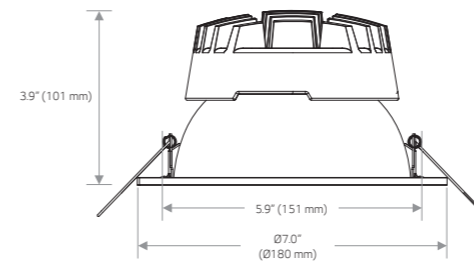
\* When using wireless dimming function, 0-10 V dimming will not be served.

\* 0-10 V dimming should be removed.

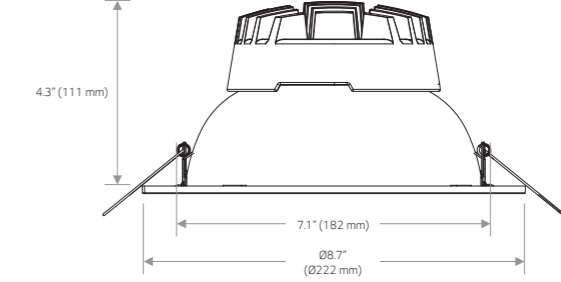


## Dimension

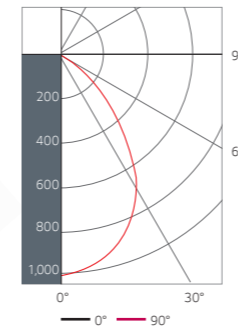
6 inch



8 inch



## Photometrics



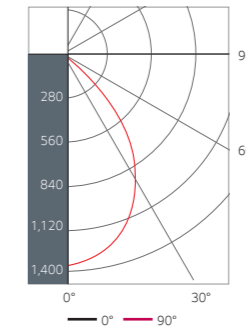
### Coefficients of utilization - zonal cavity method

Effective floor cavity reflectance		0.20		0.70		0.50		0.30		0.10	
RC	70	50	30	10	70	50	30	10	50	30	10
0	119	119	119	119	116	116	116	111	111	111	111
1	113	109	106	104	110	107	105	102	103	101	99
2	106	100	95	91	103	98	94	90	95	91	88
3	99	91	85	81	97	90	84	80	87	83	79
4	93	84	77	72	91	83	76	72	80	75	71
5	87	77	70	65	85	76	70	65	74	68	64
6	81	71	64	59	80	70	63	59	68	63	58
7	77	66	59	54	75	65	58	53	63	57	53
8	72	61	54	49	71	60	54	49	59	53	49
9	68	57	50	45	67	56	49	45	55	49	45
10	64	53	46	42	63	52	46	42	51	46	41

### Zonal lumen summary

Zone	Lumens	%Fixture
0-20	354	24.4
0-30	723	49.8
0-40	1098	75.6
0-60	1425	98.1
0-80	1450	99.8
0-90	1452	100

Test : 16W, 4000K  
Lumen : 1450 lm  
Spacing creation (0-180) : 1.08  
Spacing creation (90-270) : 1.10



### Coefficients of utilization - zonal cavity method

Effective floor cavity reflectance		0.20		0.70		0.50		0.30		0.10	
RC	70	50	30	10	70	50	30	10	50	30	10
0	119	119	119	119	117	117	117	111	111	111	111
1	113	109	107	104	110	107	105	102	103	101	99
2	106	100	95	91	103	98	94	90	95	91	88
3	99	91	86	81	97	90	85	80	87	83	79
4	93	84	77	72	91	83	76	72	80	75	71
5	87	77	70	65	85	76	69	65	74	68	64
6	81	71	64	59	80	70	63	58	68	62	58
7	76	65	58	53	75	65	58	53	63	57	53
8	72	61	54	49	70	60	53	49	59	53	48
9	68	56	49	45	66	56	49	45	55	49	45
10	64	53	46	41	63	52	46	41	51	45	41

### Zonal lumen summary

Zone	Lumens	%Fixture
0-20	480	24
0-30	978	48.8
0-40	1494	74.6
0-60	1983	98.9
0-80	2001	99.9
0-90	2004	100

Test : 22W, 4000K  
Lumen : 2000 lm  
Spacing creation (0-180) : 1.10  
Spacing creation (90-270) : 1.10

## Specifications & Ordering Information

Product type	Model code (US order code)	Input power		Delivered light output	Efficacy	Beam angle	Dimensions	Weight	Life span	Controls
		W	K							
Commercial Retrofit Downlight	6inch	16	3500	1450	90	80	Ø7.1x4.0 (Ø180x101)	1.87 (0.85)	50,000 @ L85	0-10 V (ZigBee ready)
	8inch	22	4000	2000	90	80	Ø8.7x4.4 (Ø222x111)	2.02 (0.92)	50,000 @ L85	0-10 V (ZigBee ready)
	D2240RH7181.ACWB000 (LGE-DW-22-40-2000)									

© CRI : 80, Input voltage : 120 - 277 Vac, Power factor : ≥0.9, Operating temperature : -4 - 104 °F (-20 - 40 °C)



## Compliance

- cETLus Listed and Classified to UL 1598 and 1598c, suitable for damp location use
- Satisfied ENERGY STAR program requirements for Luminaires
- IC-rated for direct contact with insulation
- Based on photometric testing consistent with IES LM-79



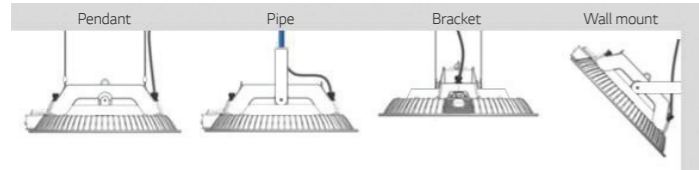
# Performance High-Bay (IP65)

## Features

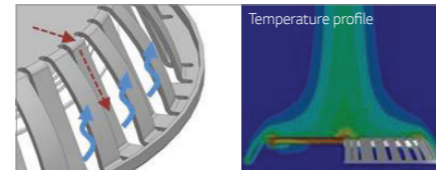
- Easy installation with 9.5 lbs light weight and various mounting option
- Wide selection for control options
- Maximized energy saving by IP65 Multi Sensor (option)
- IP65, suitable for damp location use
- High efficacy up to 140 lm/W
- Long lifetime with outstanding durability
- Fast heat transfer with pure aluminum and dual layer structure
- Tempered glass & frost PET sheet
- NSF certified
- Easy commissioning via VLC



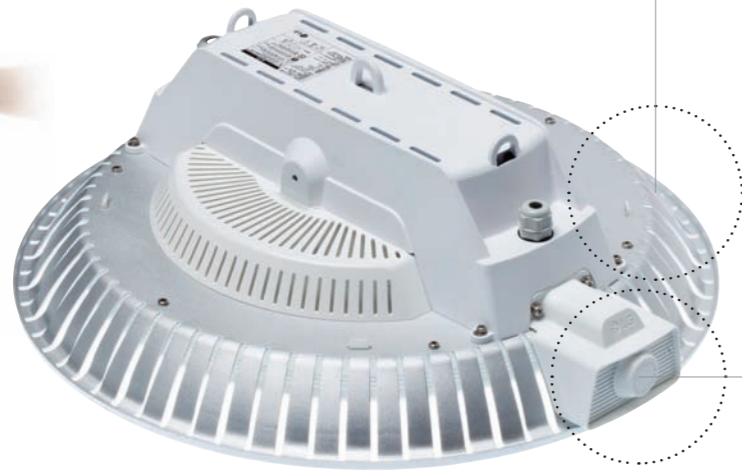
## Various mounting options



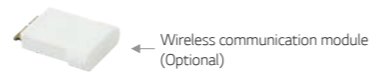
## Highly efficient cooling system



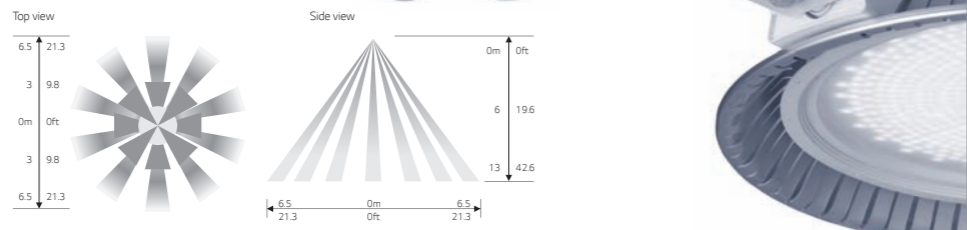
## Light weight



## Various control solutions



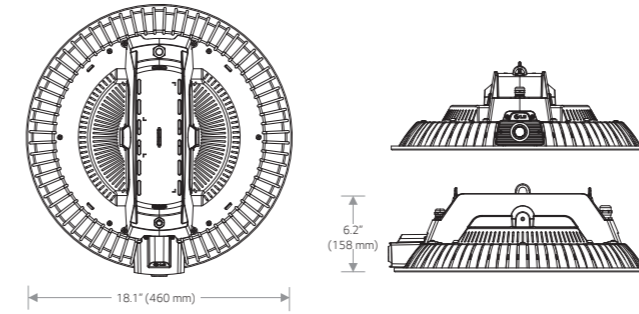
- Simply set-up with LG SENSOR CONNECT System or plug-and-play
- Occupancy & daylight sensor
- IP65
- Wide sensor detection area



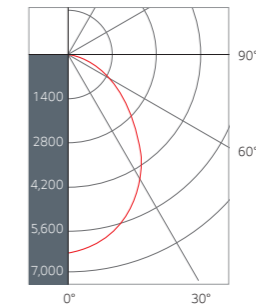
## IP65 rating



## Dimension



## Photometrics

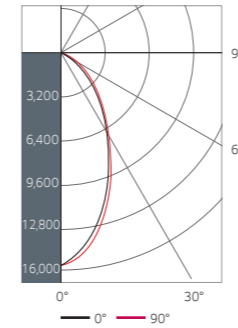


### Coefficients of utilization - zonal cavity method

Effective floor cavity reflectance		0.20								
RC	80	30	10	50	30	10	50	30	10	
0	119	119	119	119	111	111	111	106	106	106
1	111	107	103	100	100	97	95	96	94	92
2	102	95	89	84	89	85	81	86	82	79
3	94	84	77	71	80	74	70	77	72	68
4	87	76	68	62	72	66	61	70	64	60
5	80	68	60	54	65	59	53	63	57	53
6	74	62	54	48	60	53	47	58	52	47
7	69	57	49	43	55	48	43	53	47	42
8	65	52	44	39	50	43	38	49	43	38
9	61	48	40	35	46	40	35	45	39	35
10	57	45	37	32	43	37	32	42	36	32

### Zonal lumen summary

Zone	Lumens	%Fixture
0-20	2249	17.6
0-30	4609	36
0-40	7166	56
0-60	11191	87.4
0-80	12763	99.7
0-90	12801	100

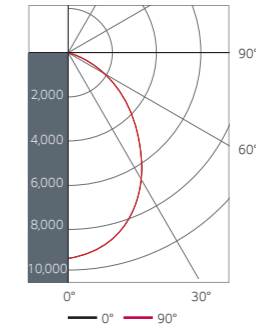


### Coefficients of utilization - zonal cavity method

Effective floor cavity reflectance		0.20								
RC	80	30	10	50	30	10	50	30	10	
0	119	119	119	119	111	111	111	106	106	106
1	111	108	105	102	101	99	97	98	96	94
2	104	97	92	87	92	88	85	89	86	83
3	97	88	82	76	84	79	75	81	77	73
4	90	80	73	68	77	71	67	75	70	66
5	84	74	66	61	71	65	60	69	64	59
6	79	68	60	55	65	59	54	64	58	54
7	74	63	55	50	61	54	50	59	54	49
8	70	58	51	46	57	50	46	55	50	46
9	66	54	47	43	53	47	42	52	46	42
10	62	51	44	40	50	44	39	49	43	39

### Zonal lumen summary

Zone	Lumens	%Fixture
0-20	4921	26.3
0-30	9040	48.4
0-40	12553	67.1
0-60	16958	90.7
0-80	18647	99.7
0-90	18697	100



### Coefficients of utilization - zonal cavity method

Effective floor cavity reflectance		0.20								
RC	80	30	10	50	30	10	50	30	10	
0	119	119	119	119	111	111	111	106	106	106
1	111	107	103	100	100	98	95	96	94	92
2	102	95	89	84	90	85	81	86	83	79
3	94	85	77	72	80	75	70	78	73	69
4	87	76	68	62	72	66	61	70	65	60
5	80	69	61	55	66	59	54	64	58	53
6	75	62	54	48	60	53	48	58	52	47
7	70	57	49	43	55	48	43	53	47	43
8	65	52	45	39	50	44	39	49	43	39
9	61	48	41	36	47	40	35	46	40	35
10	57	45	37	32	43	37	32	43	36	32

### Zonal lumen summary

Zone	Lumens	%Fixture
0-20	3320	17.8
0-30	6798	36.3
0-40	10565	56.5
0-60	16432	87.9
0-80	18643	99.7
0-90	18703	100

## Specifications & Ordering Information

Product type	Model code (US order code)	Input power	Beam angle	CCT	Delivered light output	Efficacy	IP	Optical unit	Dimensions	Weight	Life span	Controls
		W	°	K	lm	lm/W	-	-	inch (mm)	lb (kg)	hrs	-
Performance Highbay (100lm/W)	H1240P901SBALWB000 (LGE-HB-115-40-11900-90D)	115	90	4000	11900	103*	IP65 Damp	Dual (Tempered glass + Frost PET sheet)	Ø18.1x6.2 (Ø460x158)	9.0 (4.1)	50,000 @L85	0-10 V, (ZigBee ready)
	5000			12200	106*							
	H1840P551SBALWB000 (LGE-HB-180-40-19000-65D)	180	65	4000	19000	106*						
	H1850P551SBALWB000 (LGE-HB-180-50-19500-65D)			5000	19500	108*						
	H1840P901SBALWB000 (LGE-HB-180-40-19000-90D)			4000	19000	106*						
H1850P901SBALWB000 (LGE-HB-180-50-19500-90D)	5000	19500	108*									
Performance Highbay (140lm/W) [VLC]	H0940P901SFALWB000 (LGE-HB-093-40-12800-90D)	93	90	4000	12800	137	IP65 Damp	Dual (Tempered glass + Frost PET sheet)	Ø18.1x6.2 (Ø460x158)	9.5 (4.3)	70,000 @L80, 36,000 @L90	0-10 V, (ZigBee ready)
	H0950P901SFALWB000 (LGE-HB-093-50-13020-90D)			5000	13020	140						
	H1340P651SFALWB000 (LGE-HB-136-40-18700-65D)	136	65	4000	18700	137						
	H1350P651SFALWB000 (LGE-HB-136-50-19040-65D)			5000	19040	140						
	H1340P901SFALWB000 (LGE-HB-136-40-18700-90D)			4000	18700	137						
H1350P901SFALWB000 (LGE-HB-136-50-19040-90D)	5000	19040	140									

© CRI : 83, Input voltage : 120 ~ 277 Vac, Power factor : ≥0.9, Operating temperature : -22 ~ 122 °F (-30 ~ 50 °C)

Product type	Model code (US order code)	Input power	Input voltage	Input frequency	Mounting height	IP	Controls	Operating temp	Dimensions	Weight
		W	Vdc	MHz	ft (m)	-	-	°F (°C)	inch (mm)	oz (g)
IP65 Multi Sensor [Standard]	9SDA81VDDAALWB000 (LGE-HB-OSZ-IP65)	0.3	3.3	2,405 ~ 2,480	Max 42.6 (13)	65, Damp	ZigBee	-4~122 (-20~50)	3.03x3.78x1.46 (77x96x37)	2.0 (56)
IP65 Multi Sensor [VLC]	9SDA81WWD1.ALWB000 (LGE-HB-OSZ-IP65-V)	0.3	3.3	2,405 ~ 2,480	Max 42.6 (13)	65, Damp	ZigBee	-4~122 (-20~50)	3.03x3.78x1.46 (77x96x37)	2.0 (56)
Bracket	MAZ64943201ALWB000 (LGE-HB-BKT)	-	-	-	-	-	-	-	6.4x5.1x1.8 (165x130x45)	0.7 (304)

## Compliance

- cULus listed to UL 1598, suitable for damp location use
- Compliance with NSF/ANSI2

- Based on photometric testing consistent with IES LM-79
- Suitable for operation in ambient not exceeding 122 °F
- \* : DesignLights Consortium qualified products





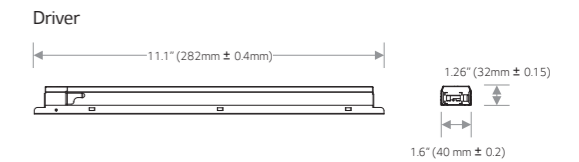
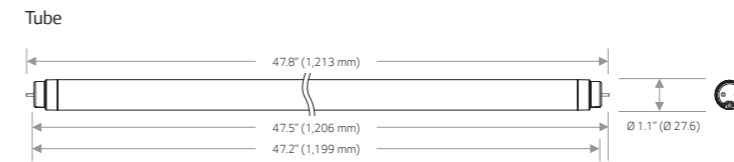
# T8 Tube Retrofit Kit 2-Lamps & 1-Driver System

## Features

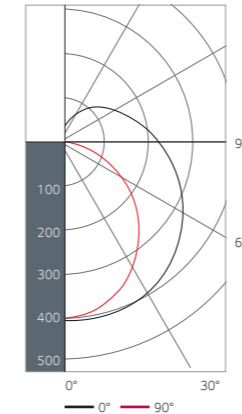
- LED tube with a dedicated remote driver
- Better reliability and longer lifespan than LED tubes with internal drivers
- System efficacy up to 117lm/W
- Wide beam angle (the angle light reaches is 270°)
- Standard 0-10 V dimming
- Wireless lighting control ready (ZigBee®)
- Lumen maintenance of L85 at 50,000 hours
- Compliant with DOE EPS regulation (no load power < 0.3 W)



## Dimension



## Photometrics



### Coefficients of utilization - zonal cavity method

RC	Effective floor cavity reflectance									
	0.20			0.50			0.80			
RW	70	50	30	10	50	30	10	50	30	10
0	117	117	117	117	101	101	101	91	91	91
1	103	97	92	87	83	79	76	75	72	69
2	93	83	75	68	71	65	60	64	59	55
3	84	72	63	55	62	55	49	55	50	45
4	77	63	54	46	54	47	41	49	43	38
5	70	56	46	39	48	41	35	44	37	32
6	64	50	41	34	43	36	30	39	33	28
7	60	45	36	29	39	32	27	36	29	25
8	55	41	32	26	36	29	24	33	26	22
9	52	38	29	23	33	26	21	30	24	20
10	48	34	26	21	30	24	19	28	22	18

Test : 17W, 4000K (1 lamp)  
 Lumen : 1900 lm  
 Spacing creation (0-180) : 1.22  
 Spacing creation (90-270) : 1.48

### Zonal lumen summary

Zone	Lumen	%Lamp
0-20	149	7.5
0-30	320	16.0
0-40	533	26.6
0-60	1000	49.9
0-80	1406	70.2
0-90	1564	78.1
10-90	1525	76.2
20-40	383	19.2
20-50	617	30.8
40-70	684	34.2
60-80	406	20.3
70-80	189	9.4
80-90	158	7.9
90-110	242	12.1
90-120	334	16.7
90-130	408	20.4
90-150	439	21.9
90-180	506	25.3
110-180	263	13.2
0-180	2070	103.4

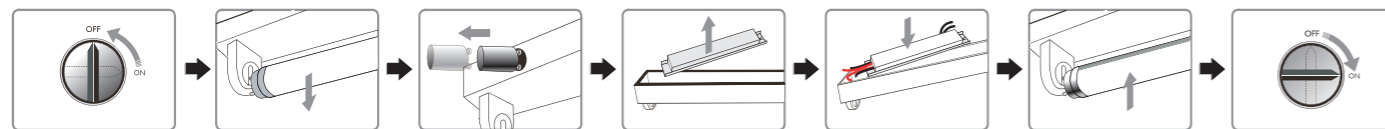
## Specifications & Ordering Information

Product type	Model code (US order code)	Input power		Delivered light output	Efficacy	Beam angle	Optical unit	Dimensions	Weight	Life span	Controls		
		W	K									lm	lm/W
T8 Tube	4ft	T1840GE8121.BUAAWAA (LGE-TUBE-18-40-1900-ED2)		17	4000	1900	111	180	White (PC)	Ø1.1X47.2 (Ø27.8X1,198)	0.4 (0.15)	50,000 @ L85	-
		T1850GE8121.BUAAWAA (LGE-TUBE-18-50-1900-ED2)		5000	2000	117							

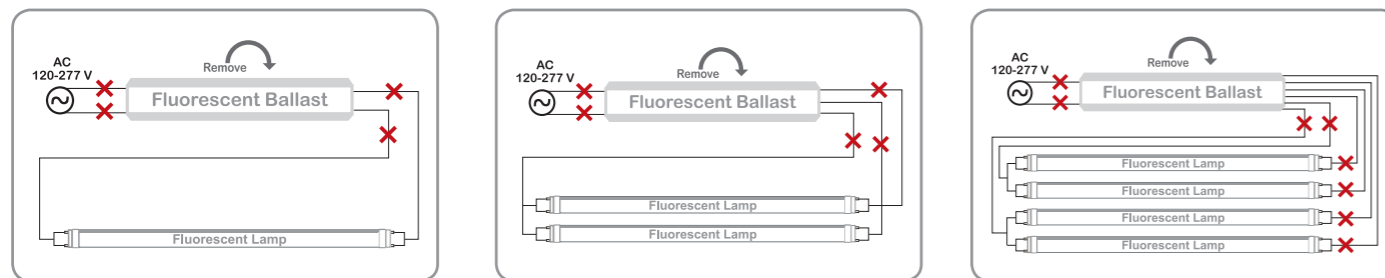
© CRI : 83, Input voltage : 120 - 277 Vac, Power factor : ≥0.9, Operating temperature : -4 - 122 °F (-20 - 50 °C)

Product type	Input power	Model code (US order code)	Control	Dimensions	Weight
External Driver	34	TC363ZHC.BUAAWAA (LGE-TUBE-DRIVER-2TUBE)	0-10 V (ZigBee ready)	11.1X1.6X1.3 (282X40X32)	0.6 (0.25)

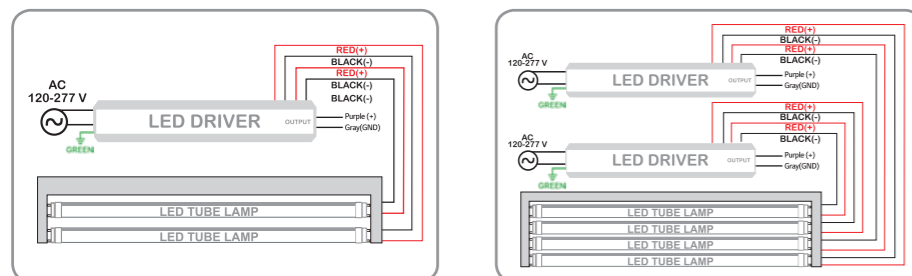
## Installation Procedure



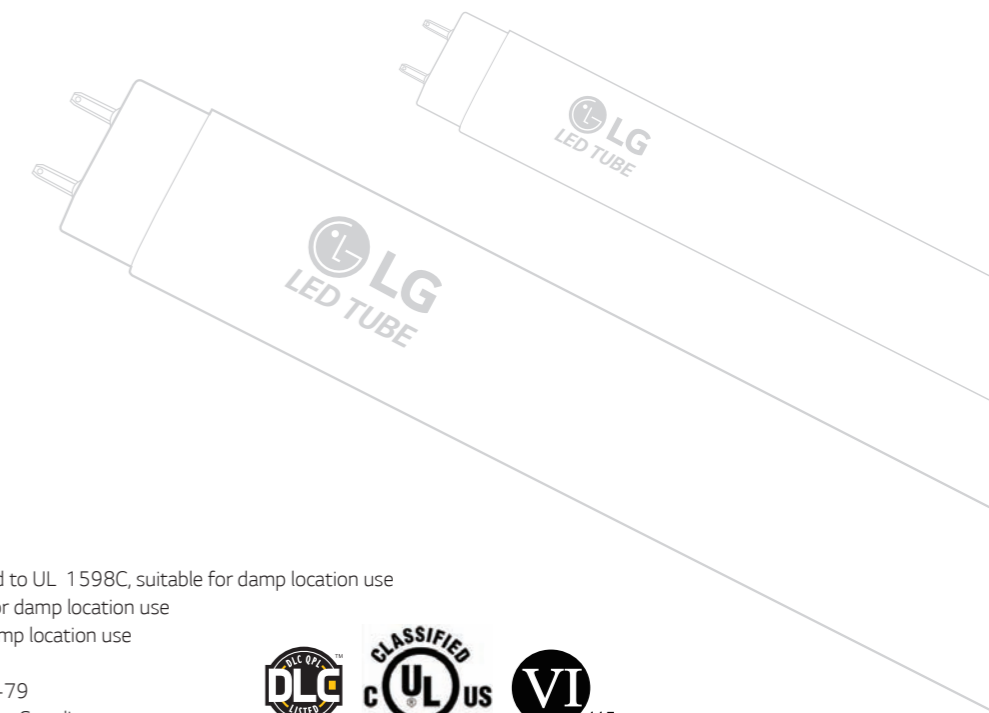
## Before



## After



- 0-10 V Dimming Option
  - Wire dimming function is included. (0-10 V)
  - Be careful of the polarity for correct dimming control. (Purple (+), Gray(GND))
  - To dim the lamps, a compatible dimmer should be used. (Compatible dimmer : NTFV, DTV (Lutron))
- Wireless Dimming Option
  - LG LED Retrofit Conversion Kit is compatible with the Daintree ControlScope™ system based on ZHA standard protocol.
  - ※ When using the Wireless dimming function, 0-10V dimming will not be served.



## Compliance

- LED retrofit luminaire conversion kit : cULus Classified to UL 1598C, suitable for damp location use
- LED Tube : cULus recognized to UL 1993, suitable for damp location use
- Driver : cULus recognized to UL 8750, suitable for damp location use
- DesignLights Consortium qualified products
- Based on photometric testing consistent with IES LM-79
- DOE Energy Conservation Standards for External Power Supplies



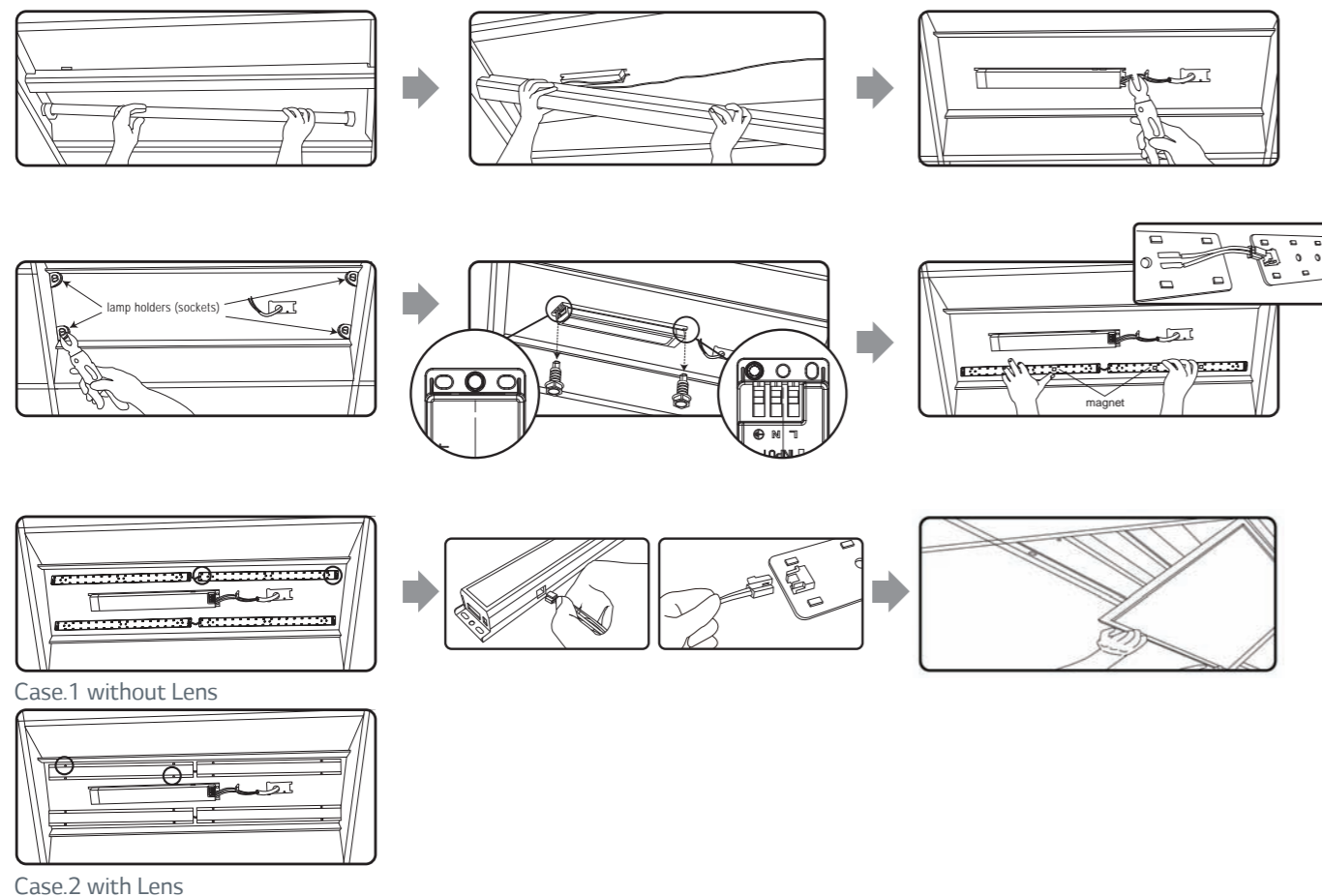
# Retrofit Board & Driver Kit

## Features

- Simple retrofit solution for typical 2', 4' fixture
- Efficacy up to 152 lm/W at source level
- Wireless lighting control ready (ZigBee®)
- Enabled Smart Multi Sensor
- Easy installation by magnets
- Lumen maintenance of L85 at 50,000 hours
- Compliant with DOE EPS regulation (no load power < 0.3W)

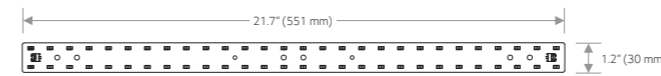


## Installation Procedure

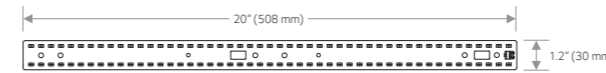


## Dimension

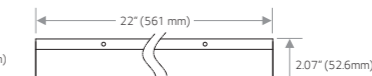
Board  
2'X4'



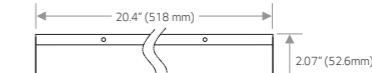
2'X2'



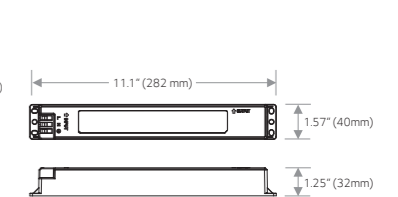
Cover  
2'X4'



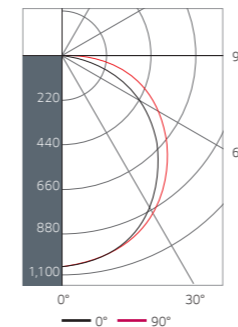
2'X2'



Driver



## Photometrics



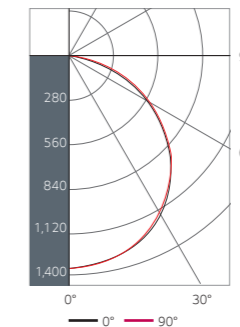
### Coefficients of utilization - zonal cavity method

RC	Effective floor cavity reflectance					0.20				
	70	50	30	10	50	30	10	50	30	10
0	119	119	119	119	111	111	111	106	106	106
1	107	102	97	92	95	91	88	91	88	85
2	97	88	80	74	82	76	71	79	74	70
3	88	77	68	61	72	65	59	69	63	58
4	80	68	59	51	64	56	50	61	55	50
5	74	60	51	44	57	49	43	55	48	43
6	68	54	45	38	52	44	38	50	43	38
7	63	49	40	34	47	39	33	45	38	33
8	59	45	36	30	43	35	30	42	35	30
9	55	41	33	27	39	32	27	38	32	27
10	52	38	30	25	36	29	24	36	29	24

### Zonal lumen summary

Zone	Lumens	%Fixture
0-20	388	11.9
0-30	822	25.3
0-40	1344	41.4
0-60	2385	73.4
0-80	3095	95.3
0-90	3249	100.0

Test : 2'X2; 25W, 3500K with Lens  
Lumen : 3250 lm  
Spacing creation (0-180) : 1.22  
Spacing creation (90-270) : 1.28



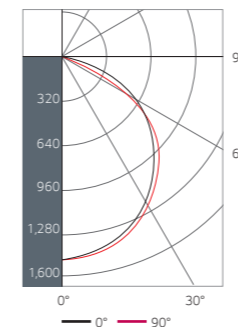
### Coefficients of utilization - zonal cavity method

RC	Effective floor cavity reflectance					0.20				
	70	50	30	10	50	30	10	50	30	10
0	119	119	119	119	111	111	111	106	106	106
1	110	105	101	97	99	96	93	95	92	90
2	100	92	85	80	86	81	77	83	79	75
3	91	81	73	66	76	70	65	73	68	63
4	83	71	63	56	68	61	55	65	59	54
5	77	64	55	48	61	53	48	59	52	47
6	71	57	49	42	55	47	42	53	46	41
7	65	52	43	37	50	42	37	48	41	36
8	61	47	39	33	45	38	33	44	37	33
9	57	43	35	30	42	35	30	41	34	29
10	53	40	32	27	39	32	27	38	31	27

### Zonal lumen summary

Zone	Lumens	%Fixture
0-20	496	13.0
0-30	1059	27.9
0-40	1745	45.9
0-60	3102	81.6
0-80	3791	99.7
0-90	3801	100.0

Test : 2'X2; 25W, 3500K without Lens  
Lumen : 3800 lm  
Spacing creation (0-180) : 1.28  
Spacing creation (90-270) : 1.26



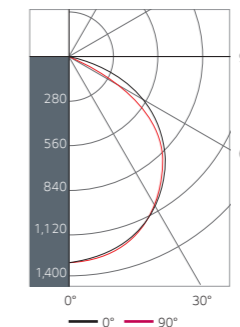
### Coefficients of utilization - zonal cavity method

RC	Effective floor cavity reflectance					0.20				
	70	50	30	10	50	30	10	50	30	10
0	119	119	119	119	111	111	111	106	106	106
1	109	105	101	97	98	95	93	95	92	90
2	100	92	85	80	86	81	77	83	79	75
3	91	81	73	66	76	70	65	73	68	64
4	83	72	63	56	68	61	55	65	59	54
5	77	64	55	49	61	53	48	59	52	47
6	71	58	49	42	55	47	42	53	46	41
7	66	52	43	37	50	42	37	48	42	37
8	61	48	39	33	46	38	33	44	38	33
9	57	44	35	30	42	35	30	41	34	30
10	53	40	32	27	39	32	27	38	31	27

### Zonal lumen summary

Zone	Lumens	%Fixture
0-20	537	13.3
0-30	1144	28.3
0-40	1870	46.2
0-60	3319	82.0
0-80	4014	99.2
0-90	4046	100.0

Test : 2'X4; 31W, 3500K with Lens  
Lumen : 4050 lm  
Spacing creation (0-180) : 1.24  
Spacing creation (90-270) : 1.26



### Coefficients of utilization - zonal cavity method

RC	Effective floor cavity reflectance					0.20				
	70	50	30	10	50	30	10	50	30	10
0	119	119	119	119	111	111	111	106	106	106
1	110	105	101	97	98	95	93	95	92	90
2	100	92	86	80	87	82	78	84	80	76
3	91	81	73	67	77	71	65	74	69	64
4	84	72	63	57	68	61	56	66	60	55
5	77	64	56	49	61	54	48	59	53	48
6	71	58	49	43	55	48	42	53	47	42
7	66	52	44	38	50	43	37	49	42	37
8	61	48	39	34	46	38	33	44	38	33
9	57	44	36	30	42	35	30	41	34	30
10	54	40	32	27	39	32	27	38	31	27

### Zonal lumen summary

Zone	Lumens	%Fixture
0-20	618	13.1
0-30	1327	28.1
0-40	2192	46.4
0-60	3941	83.4
0-80	4698	99.4
0-90	4724	100.0

Test : 2'X4; 31W, 3500K without Lens  
Lumen : 4700 lm  
Spacing creation (0-180) : 1.30  
Spacing creation (90-270) : 1.28

## Specifications & Ordering Information

Product type	Model code (US order code)	Input power	CCT		Delivered light output	Efficacy	Beam angle	Optical unit	Dimensions	Weight	Life span	Controls	
			W	K									lm
Board & Driver Kit	2'X2' without Lens	25	3500	3800	3800	152*	117	-	Board (2'X4') 21.7X1.2 (551X30)	0.77 (0.35)	50,000 @ L85	0-10 V (ZigBee ready)	
													FM2535A2S06.BUAAWAA (LGE-2BDK-25-35-3800)
	2'X4' without Lens	31	4000	4700	4700	152*	-	-	Board (2'X2') 20X1.2 (508X30)	1.04 (0.47)	-	-	
													FM3135A2S12.BUAAWAA (LGE-4BDK-31-35-4700)
	2'X2' with Lens	25	3500	3250	4000	130	-	-	Driver (2'X2') 12.5X1.1X1.0 (319X28X25)	0.99 (0.45)	-	-	
													FM2535A8W06.BUAAWAA (LGE-2BDK-25-35-3200-L)
	2'X4' with Lens	31	3500	4050	4000	130	113	White (PC)	-	-	1.50 (0.68)	-	-

⊙ CRI : 82, Input voltage : 120 ~ 277 Vac, Power factor : ≥0.9, Operating temperature : -4 ~ 122 °F (-20 ~ 50 °C)

⊙ Note! All technical specifications are given as guidance only. Final specification may differ from actual product.

## Compliance

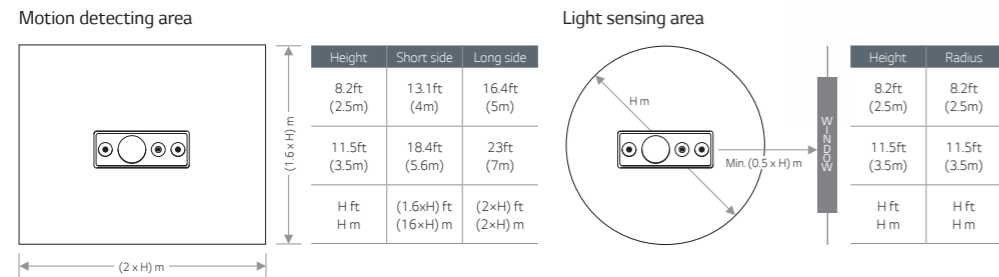
- Retrofit Board & Driver Kit : cULus classified to UL 1598C, suitable for damp location use
- Driver : cULus recognized to UL 8750, suitable for damp location use
- DesignLights Consortium qualified products
- Based on photometric testing consistent with IES LM-79
- \* : DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.



# Smart Multi Sensor

## Features

- Maximized energy saving with daylight harvesting and motion detecting
  - Automatically maintain illumination through daylight harvesting
  - Occupancy detection automatic on/off/dimming
- Useable to max. 11.5ft (3.5m) high ceiling
- Individual or Group control



## Clip options

Application	Accessory	Installation
Performance Troffer	  <Plate Clip>	<p>Put the cable through two holes of clip and assemble the multi sensor</p> <p>Insert Zigbee module to LED Driver</p> <p>Assemble inner cover of Troffer</p> <p>Fix the clip to optic cover and assemble the optic cover to Troffer</p>
Commercial Retrofit Downlight		<p>Punching Diameter Ø1-25/32" - Ø2"</p>
T8 Tube Retrofit Kit		<p>Place the clip to Tube and Insert Zigbee module to Driver</p>

## Specifications & Ordering Information

Product type	Model code (US order code)	Input power	Input voltage	Input frequency	IP	Dimensions	Weight	Operating temp.	Controls
		W	Vdc	MHz	-	inch (mm)	oz (g)	°F (°C)	-
Smart Multi Sensor	9SD131VDDAALWB000 (LGE-MULTI-SENSOR)	0.2	3.3	2,405 -2,480	20	Sensor: 0.8x2.0x0.7 (20x50x17) Dongle: 0.9x1.1x0.3 (22x28.7x7.7) Cable: Ø0.16x31.5 (Ø4.0x800)	0.4 (10)	-4 - 122 (-20 - 50)	ZigBee
ZigBee Dongle	Standard	0.2	3.3	2,405 -2,480	20	0.8x2.0x0.7 (20x50x17)	0.2 (5)	-4 - 122 (-20 - 50)	ZigBee
	[VLC]	0.2	3.3	2,405 -2,480	20	0.8x2.0x0.7 (20x50x17)	0.2 (5)	-4 - 122 (-20 - 50)	ZigBee
Clip for Performance Troffer	BKTTRO15122.BUAAWAA (LGE-TBAR-CLIP)					1.61x0.63x0.35 (41x16x9)	0.1 (3)		
Clip for Downlight	BKTCE015123.BUAAWAA (LGE-CEILING-PLATE)					2.68x2.28x0.35 (68x58x9)	0.4 (13)		
Clip for Tube	BKTTU015121.BUAAWAA (LGE-TUBE-CLIP)					1.26x1.06x1.34 (32x27x34)	0.1 (3)		

# Scheduling Switch Battery type / AC powered type

## Features (Battery type)

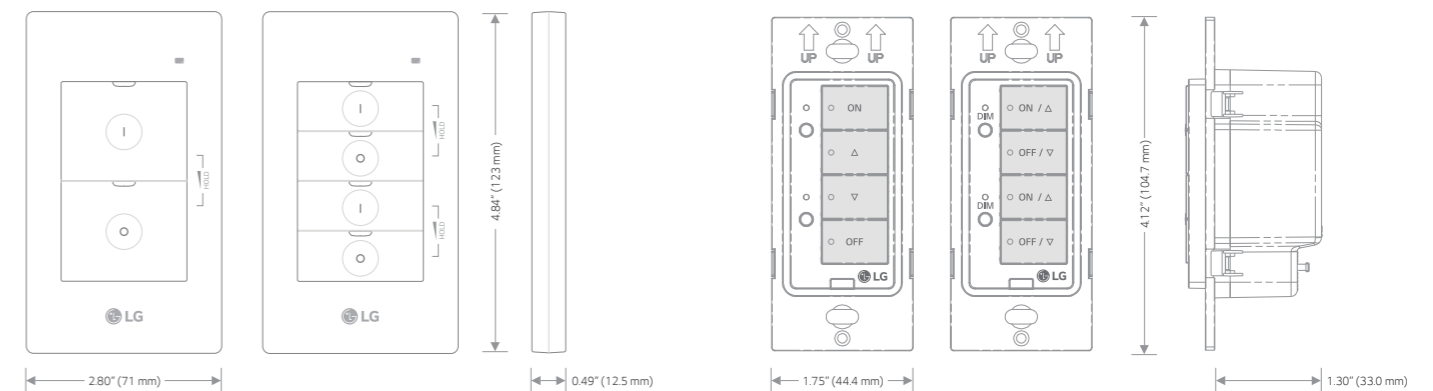
- Minimize labor cost with easy installation
  - ZigBee® wireless communication
  - AAA alkaline battery type (easy replacement)
- 0.49 inch (1.25cm) slim & seek design
- Energy saving with set-scheduling
- Real time clock & back-up battery embedded for durability of scheduling
- Group control : On/Off/Dimming

## Features (AC powered type)

- Easy replacement to new or existing switch location
  - fits into standard wallbox (deep wallbox preferred) and decorator style faceplate
- Minimize labor cost with easy configuration
  - ZigBee® wireless communication
- Two-wire (non-neutral) applicable for retrofit applications
- Energy saving with set-scheduling
- Real time clock & back-up battery embedded for durability of scheduling (rechargeable by line voltage)
- Intuitive operation & function



## Dimension



## Specifications & Ordering Information

Product type	Model code (US order code)	Input power	Input voltage	Input frequency	Communication range	Dimensions	Weight	Operating temp.	Controls
		W	Vac	MHz	ft (m)	inch (mm)	oz (g)	°F (°C)	-
Scheduling Switch (Battery type)	1-Group (2buttons)								
	2-Group (4buttons)								
Scheduling Switch (AC powered)	1-Group (2buttons)								
	2-Group (4buttons)								

# LG Wireless Lighting Control

## “SIMPLE”

- Wireless-embedded system by simply inserting a communication module into the driver.
- Simple integration with any ZigBee® control systems or products.

## “SMART”

- Perfect for small-medium buildings with low total cost of ownership.
- Wireless mesh control platform and sensors offer extensive integration benefits.

## Benefits of wireless lighting control

Although lighting control solutions have been proven to significantly reduce lighting energy consumption, many parts of commercial building market have been hesitant due to cost, complexity and applicability.

However, new wireless technologies are eliminating these concerns, while expanding the lighting control capabilities.

### Removing the wires

A new generation of lighting control systems is reducing cost and eliminating complexity concerns by removing the dedicated control wiring.

### Flexibility

Instead of placing controls where wiring permits, building owners are free to place controls where they are needed to improve building performance. As the needs of a space change, changes can be made at any point, or new devices and control strategies added, simply by reprogramming.

### Scalability

Once a wireless network is established, that network can grow to cover an ever-expanding area at a low additional cost. Additional sensors, switches and lights require minimal labor and disruption, and utilize the same wireless control system without the need to add a new control infrastructure.

## Lighting control strategy

Lighting control manages and automates the delivery of the correct amount of light, where you want it, when you want it. Lights can automatically turn on/off or dim at set times or under set conditions, and users can have control over their own lighting levels to provide optimal working conditions.

A lighting control solution automates and simplifies cost- and energy-saving strategies such as belows.

### Scheduling

Turn on/off and dim lights at specified times during the day— for example, automatically turn lights on at the start of business hours, and off after workers leave at night.

### Occupancy sensors

Detect when a room is occupied, to automatically turn lights on when someone enters and off (or dim) shortly after they leave.

### Daylight harvesting

Use photosensors to detect levels of natural lighting, and automatically dim lights when sunlight is streaming into windows. This reduces energy use and provides consistent lighting levels.

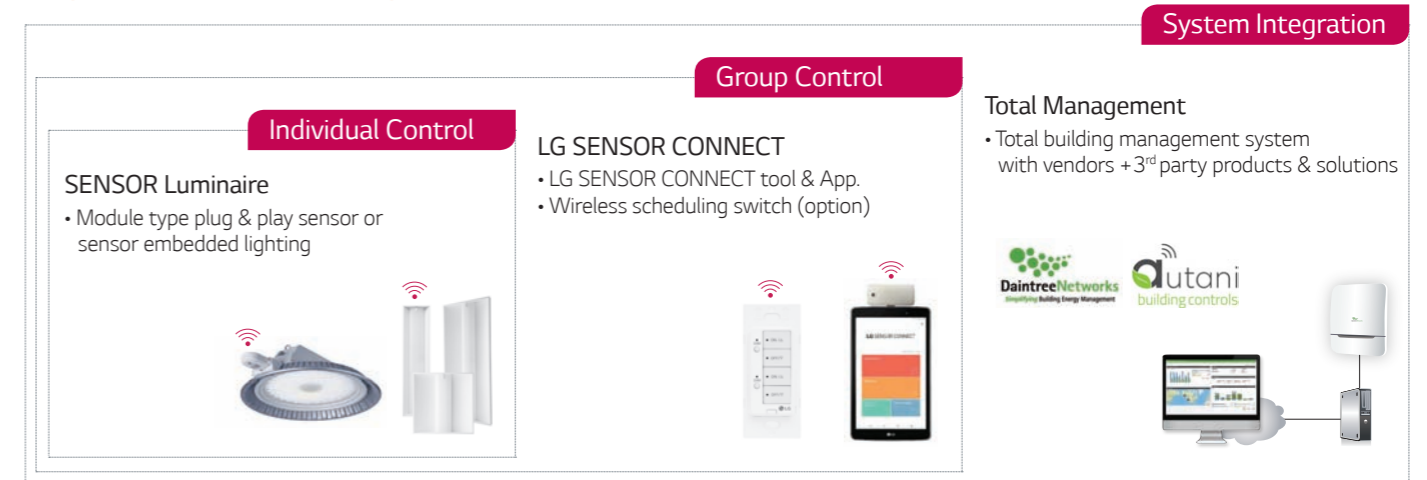
### Demand response

Utility companies frequently offer their customers incentives to encourage them to reduce energy consumption, especially at times of peak usage or when retail energy prices are high. Lighting control solutions can automatically respond to these events and reduce energy consumed by lighting to pre-set levels.

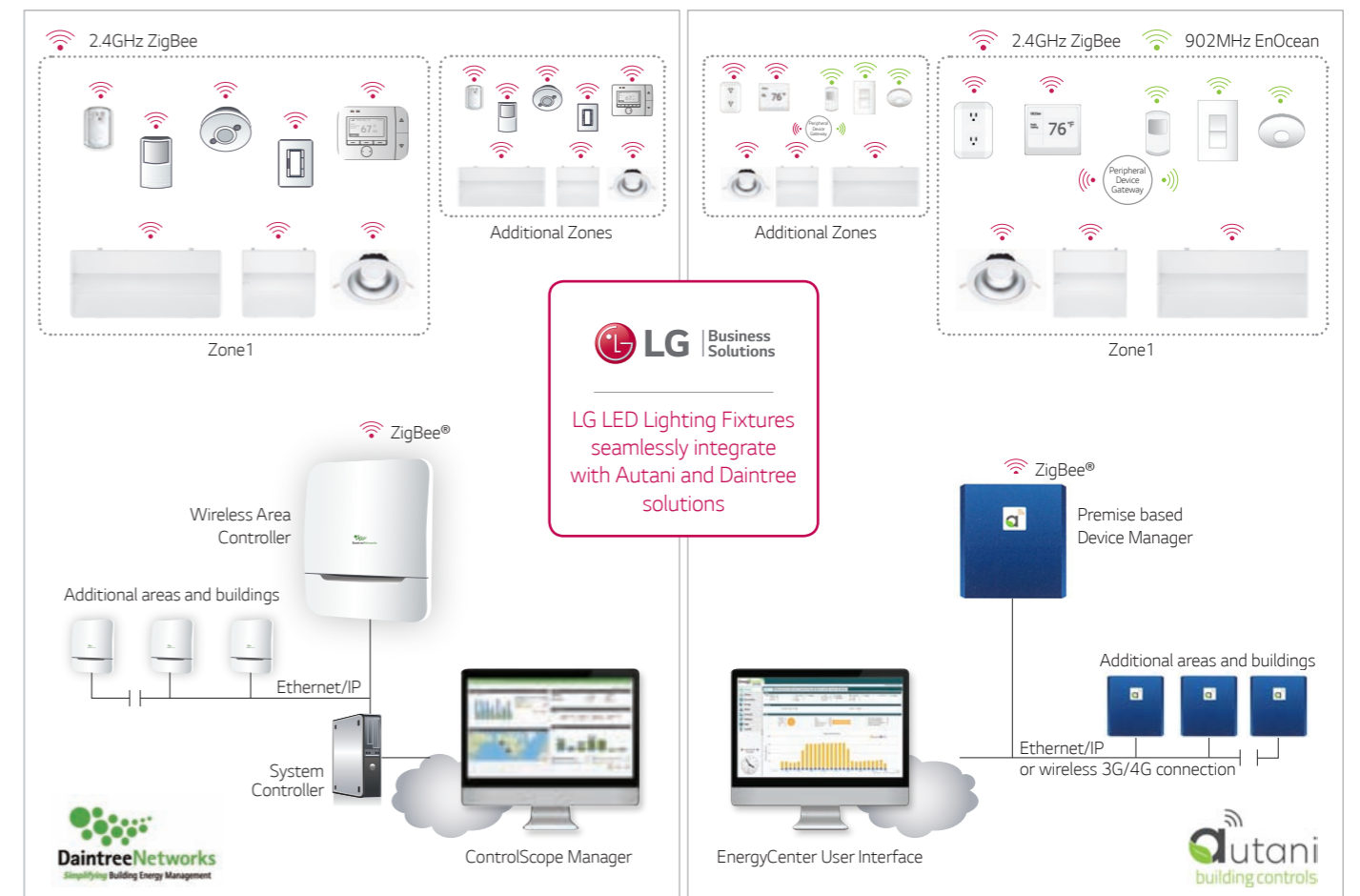
## LG Lighting with ZigBee® wireless capability

LG Lighting is designed as a wireless-embedded system, which users can control wirelessly by simply inserting a compact communication dongle into the driver. By adopting ZigBee®, an open wireless protocol, the system not only works seamlessly with devices that use the same protocol, but also integrates with the control systems of solution providers like DaintreeNetworks and Autani.

### Easy installation & scalability



### Total control system with DaintreeNetworks & Autani



# LG SENSOR CONNECT

## Benefits of LG SENSOR CONNECT

The LG SENSOR CONNECT system from LG Electronics meets the needs of small and medium-sized buildings that require a wireless lighting control solution but are constrained by cost. ZigBee® wireless mesh control platform & sensors (occupancy sensing, daylight harvesting) embedded into luminaires, touting the exact same integration benefits with wireless lighting control solutions.

## LG solves your problems

### Specifiers



- Simple stand-alone system

### Installers (facility managers)



- No re-circuiting or new control wiring
- Easy installation & maintenance

### Building owners



- Saving installation & energy costs
- Provide optimum lighting control

## A new generation of much simpler lighting control system

### Easy Installation

- Tool-less installation
- Simple set-up for the installer
- Flexible layout



### Excellent Savings

- Occupancy and daylight sensing
- Preset-schedule control
- App reports real-time energy savings

### Intuitive Operation

- Easy and convenient for the end user
- Manual or automatic on/off/dimming
- Automated sensor control
- Remote monitoring & management

## Simple yet powerful commissioning App

### VLC COMMISSIONING SOLUTION

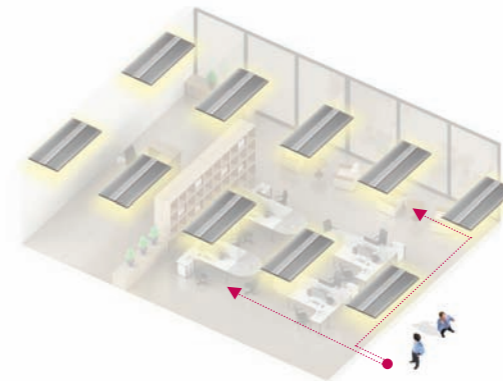
- Easy importing MAC ID via VLC (Visible Light Communication)
- Quick deployment by recognition X and Y coordinates

### LPCS (Lighting Pre-Commissioning Station)

- Easy desk commissioning before lighting installation
- Troubleshooting and firmware update at site



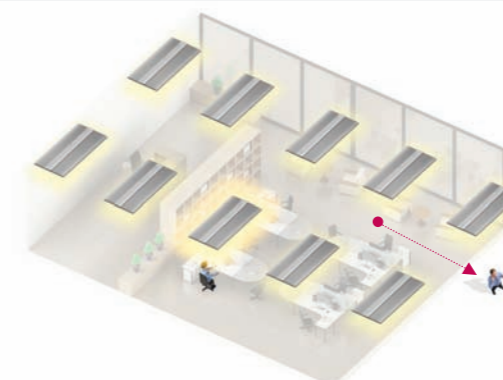
## How LG SENSOR CONNECT system works for open-plan office



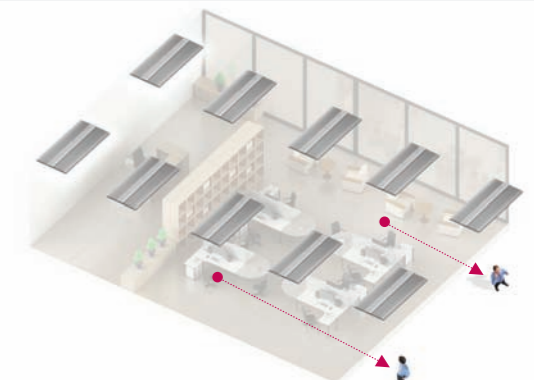
01 The lighting group brightens up to the max level when the first occupant is detected.



02 As each occupant arrives at their desk space, the luminaires in the immediate area stay at the max level. After a while, remaining luminaires dim to the mid level. In the meantime, automatic daylight harvesting occurs throughout the day.



03 When occupants leave their desk space, the luminaires in the immediate area dim to the mid level.



04 The luminaires turn off when no occupancy is detected from the entire lighting group.

# Commercial Term and Conditions

## Terms

- Credit accounts : Invoice payments are required to be paid in Net Thirty (30) Days.
- Cash account : 100% balance of payment due before shipping.
- 1.5% monthly service charge can be imposed on all accounts past due in excess of thirty (30) days on the unpaid balance, except where prohibited by law.
- Customer may be held responsible for any fees arising from third party collection efforts.

## Orders

- The minimum order charge for LGE LED Lighting lamps, fixtures, or control is \$100.00
- Orders will be accepted by facsimile or electronic means only (E.D.I. preferably).
- Hold for Release (HFR) orders will only be accepted with an approximate release date, and are subject to applicable price increases.

## Cancellations

- Orders cannot be cancelled without prior written LGE consent.
- All cancellation requests must be submitted in writing to LGE and may be subject to restocking fees.

## Return policy

- All product or order return requests must be submitted in writing to LGE.
  - Return requests without prior written LGE authorization will not be accepted.
  - All returns must be marked with the LGE RMA number or LGE reserves the right to refuse return.
- All returns are subject to a possible restocking fee, with that fee being a maximum of 30% of the order.
- Freight on returns will not be credited. Collect return shipments will not be accepted.
- LGE has the right to repair or replace any warranty item. LGE has the right to substitute any warranty item not on the current price / product list.
- Returns of new, uninstalled merchandise must be requested within 90 days of invoice date.
- LGE will not accept returns of installed products, or items older than 90 days past invoice date.
- Returned merchandise must be in original LGE packaging and deemed suitable for resale by LGE.
  - All returns to be inspected by LGE.
  - Damaged products will be credited less repair costs or at salvage value.

## Freight

- The following prepaid freight terms apply to orders shipped from LG Electronics U.S.A., Inc. warehouses.
- For LG LED Lighting order of \$5,000 or greater, customer will receive LG pre-paid freight services.
- Special freight handling , including international deliveries, must be submitted in writing to LGE.
  - All special freight charges (including overnight airfare) will be billed to the customer requesting the special freight handling.
- All shipments are subject to availability.
- Requests to ship partials must be submitted in writing and freight will be charged per each shipment.
- All next day air shipments must be submitted in writing and received before 12 PM Eastern Time.
- All freight claims for damaged or lost-in-transit material must be made directly to the carrier.

## Point of contact

- For more information, please contact LG Electronics order management at (678) 328-6439
- Please visit [www.lglightingus.com](http://www.lglightingus.com)

### Performance Troffer

Product type	Model code (US order code)	Input power	CCT	Delivered light output	Efficacy	Beam angle	CRI	Input voltage	Power factor	Operating temperature	Optical unit	Dimensions	Weight	Controls	
															W
T-Bar lay-in fixture	2'X2'	18	FRS618D2H0A.BUAAWAA (LGE-2X2RT-18-35-2350-TB)	3500	2350	131	105	82	120 - 277	≥0.9	-4 - 122 (-20 - 50)	Frost (PMMA)	23.8X23.8X2.8 (605X605X72)	9.0 (4.1)	0-10 V (ZigBee ready)
			FRS618D3H0A.BUAAWAA (LGE-2X2RT-18-40-2400-TB)	4000	2400	133									
	2'X4'	26	FRR626D2H0A.BUAAWAA (LGE-2X4RT-26-35-3400-TB)	3500	3380	130									
			FRR626D3H0A.BUAAWAA (LGE-2X4RT-26-40-3400-TB)	4000	3400	131									
			FRR634D2H0B.BUAAWAA (LGE-2X4RT-34-35-4400-TB)	3500	4400	129									
			FRR634D3H0B.BUAAWAA (LGE-2X4RT-34-40-4500-TB)	4000	4500	132									
Retrofit fixture	2'X2'	18	FRS618D2HRA.BUAAWBB (LGE-2X2RT-18-35-2350-R(W))	3500	2350	131									
			FRS618D3HRA.BUAAWBB (LGE-2X2RT-18-40-2400-R(W))	4000	2400	133									
	2'X4'	26	FRS626D2HRB.BUAAWBB (LGE-2X2RT-26-35-3400-R(W))	3500	3380	130									
			FRS626D3HRB.BUAAWBB (LGE-2X2RT-26-40-3400-R(W))	4000	3400	131									
			FRR634D2HRD.BUAAWBB (LGE-2X4RT-34-35-4400-R2(W))	3500	4400	129									
			FRR634D3HRD.BUAAWBB (LGE-2X4RT-34-40-4500-R2(W))	4000	4500	132									
Retrofit fixture with Sensor	2'X2'	26	FRS626D2HRC.BUAAWBB (LGE-2X2RT-26-35-3400-R(W)-SN)	3500	3380	130									
			FRS626D3HRC.BUAAWBB (LGE-2X2RT-26-40-3400-R(W)-SN)	4000	3400	131									
	2'X4'	34	FRR634D2HRC.BUAAWBB (LGE-2X4RT-34-35-4400-R(W)-SN)	3500	4400	129									
			FRR634D3HRC.BUAAWBB (LGE-2X4RT-34-40-4500-R(W)-SN)	4000	4500	132									

### Simple Choice Troffer

Product type	Model code (US order code)	Input power	CCT	Delivered light output	Efficacy	Beam angle	CRI	Input voltage	Power factor	Operating temperature	Optical unit	Dimensions	Weight	Controls
T-bar Lay-in fixture	1'X4'	40	F4035TB1131.BUAAWAA (LGE-1X4SI-40-35-4000-TB)	3500	4000	100	120	82	120 - 277	≥0.9	-4 - 104 (-20 - 40)	11.8X47.8X4.14 (300X1,214X105)	7.9 (3.6)	0-10 V (ZigBee ready)
			F4040TB1131.BUAAWAA (LGE-1X4SI-40-40-4000-TB)	4000	4000	100								
			FRS632D2H0B.BUAAWAA (LGE-2X2SI-32-35-3200-TB)	3500	3200	100								
	2'X2'	32	FRR632D3H0B.BUAAWAA (LGE-2X2SI-32-40-3200-TB)	4000	3200	100								
			25	F2435TB1111.BUAAWAA (LGE-2X2SI-25-35-3200-TB)	3500	3250						130		
				F2440TB1111.BUAAWAA (LGE-2X2SI-25-40-3200-TB)	4000	3270						130		
	2'X4'	40	FRR640D2H0A.BUAAWAA (LGE-2X4SI-40-35-4000-TB)	3500	4000	100								
			31	FRR640D3H0A.BUAAWAA (LGE-2X4SI-40-40-4000-TB)	4000	4000						100		
				F3035TB1111.BUAAWAA (LGE-2X4SI-31-35-4000-TB)	3500	4050						130		
	Retrofit fixture with Sensor	1'X4'	40	F4035TB1531.BUAAWAA (LGE-1X4SC-40-35-4000-TB)	3500	4000						100		
				F4040TB1531.BUAAWAA (LGE-1X4SC-40-40-4000-TB)	4000	4000						100		
				FRS632D2HOC.BUAAWAA (LGE-2X2SC-32-35-3200-TB)	3500	3200						100		
2'X2'		32	FRS632D3HOC.BUAAWAA (LGE-2X2SC-32-40-3200-TB)	4000	3200	100								
			25	F2435TB1541.BUAAWAA (LGE-2X2SC-25-35-3200-TB)	3500	3250	130							
				F2440TB1541.BUAAWAA (LGE-2X2SC-25-40-3200-TB)	4000	3270	130							
2'X4'		40	FRR640D2HOC.BUAAWAA (LGE-2X4SC-40-35-4000-TB)	3500	4000	100								
			31	FRR640D3HOC.BUAAWAA (LGE-2X4SC-40-40-4000-TB)	4000	4000	100							
				F3035TB1511.BUAAWAA (LGE-2X4SC-31-35-4000-TB)	3500	4050	130							
Retrofit Fixture [VLC]	2'X2'	25	F2435RB1141.AOWBOV1 (LGE-2X2SI-25-35-3200-RV)	3500	3250	130								
			F2440RB1141.AOWBOV1 (LGE-2X2SI-25-40-3200-RV)	4000	3250	130								
	2'X4'	31	F3035RB1111.AOWBOV1 (LGE-2X4SI-31-35-4000-RV)	3500	4050	130								
			F3040RB1111.AOWBOV1 (LGE-2X4SI-31-40-4000-RV)	4000	4050	130								
	Retrofit Fixture with Sensor [VLC]	2'X2'	25	F2435RB1541.AOWBOV1 (LGE-2X2SC-25-35-3200-RV)	3500	3250	130							
				F2440RB1541.AOWBOV1 (LGE-2X2SC-25-40-3200-RV)	4000	3250	130							
2'X4'	31	F3035RB1511.AOWBOV1 (LGE-2X4SC-31-35-4000-RV)	3500	4050	130									
		F3040RB1511.AOWBOV1 (LGE-2X4SC-31-40-4000-RV)	4000	4050	130									



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