

# Simple Choice Troffer Lay-in

Project Name

Catalog Number

Notes

## Features

- System efficacy of 130 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 up to L80 at 70,000 hours
- Adjustable high-end trim from 10% to 100%
- Easy commissioning via VLC (available at 130 lm/W models)
- 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.

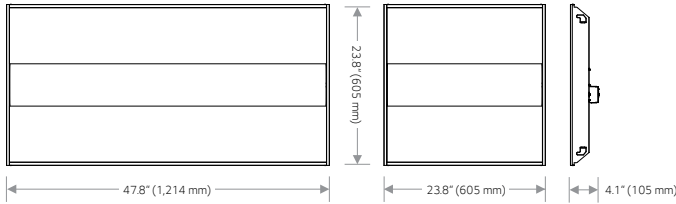
## Soft light

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

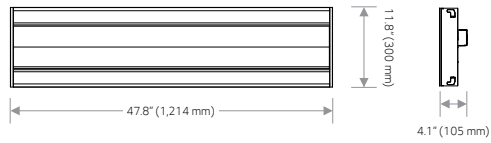


## Dimension

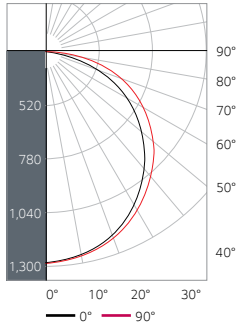
T-Bar lay-in  
2'X4'



1'X4'



## Photometrics



Coefficients of utilization - zonal cavity method

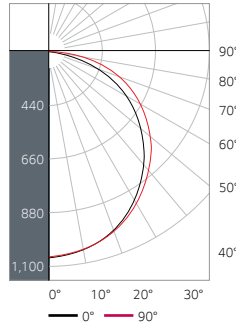
Effective floor cavity reflectance 0.20

RC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	111	111	111	106	106	106	102	102	102	100	0
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	43	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	25	36	29	24	35	29	24	22

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			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	111	111	111	106	106	106	102	102	102	100	0
1	108	103	99	95	106	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	73	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

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		Delivered light output	Efficacy	Beam angle	Optical unit	Dimensions	Weight	Life span	Controls
		W	K								
T-bar Lay-in Fixture [VLC]	1'X4'	F3035TA2131.AOWB0V1 (LGE-1X4SI-31-35-4000-TBV)	31	3500	4050	130	White (PC)	11.8X47.8X4.14 (300X1,214X105)	7.9 (3.6)	50,000 @L80	0-10 V (ZigBee ready)
	1'X4'	F3040TA2131.AOWB0V1 (LGE-1X4SI-31-40-4000-TBV)	31	4000	4050			23.8X23.8X4.1 (605X605X105)	7.7 (3.5)	70,000 @L80, 36,000 @L90	
	2'X2'	F2435TA2142.AOWB0V1 (LGE-2X2SI-25-35-3200-TBV)	25	3500	3250			23.8X47.8X4.1 (605X1,214X105)	12.3 (5.6)	70,000 @L80, 36,000 @L90	
	2'X2'	F2440TA2142.AOWB0V1 (LGE-2X2SI-25-40-3200-TBV)	25	4000	3250			23.8X47.8X4.1 (605X1,214X105)	12.6 (5.7)	70,000 @L80, 36,000 @L90	
T-bar Lay-in Fixture with Sensor [VLC]	1'X4'	F3035TA2S31.AOWB0V1 (LGE-1X4SC-31-35-4000-TBV)	31	3500	4050	120	White (PC)	11.8X47.8X4.14 (300X1,214X105)	8.4 (3.8)	70,000 @L80	ZigBee
	1'X4'	F3040TA2S31.AOWB0V1 (LGE-1X4SC-31-40-4000-TBV)	31	4000	4050			23.8X23.8X4.1 (605X605X105)	7.9 (3.6)	70,000 @L80, 36,000 @L90	
	2'X2'	F2435TA2S42.AOWB0V1 (LGE-2X2SC-25-35-3200-TBV)	25	3500	3250			23.8X47.8X4.1 (605X1,214X105)	12.6 (5.7)	70,000 @L80, 36,000 @L90	
	2'X2'	F2440TA2S42.AOWB0V1 (LGE-2X2SC-25-40-3200-TBV)	25	4000	3250			23.8X47.8X4.1 (605X1,214X105)	12.6 (5.7)	70,000 @L80, 36,000 @L90	
T-bar Lay-in fixture	1'X4'	F4035TB1131.BUAAWAA (LGE-1X4SI-40-35-4000-TB)	40	3500	4000	100	White (PC)	11.8X47.8X4.14 (300X1,214X105)	7.9 (3.6)	50,000 @L80	0-10 V (ZigBee ready)
	1'X4'	F4040TB1131.BUAAWAA (LGE-1X4SI-40-40-4000-TB)	40	4000	4000			23.8X23.8X4.1 (605X605X105)	7.7 (3.5)	50,000 @L78	
	2'X2'	FRR640D2H0A.BUAAWAA (LGE-2X4SI-40-35-4000-TB)	32	3500	3200			23.8X47.8X4.1 (605X1,214X105)	12.3 (5.6)	50,000 @L78	
	2'X2'	FRR640D3H0A.BUAAWAA (LGE-2X4SI-40-40-4000-TB)	32	4000	3200			23.8X47.8X4.1 (605X1,214X105)	12.6 (5.7)	50,000 @L78	
T-bar Lay-in fixture with Sensor	1'X4'	F4035TB1S31.BUAAWAA (LGE-1X4SC-40-35-4000-TB)	40	3500	4000	100	White (PC)	11.8X47.8X4.14 (300X1,214X105)	8.4 (3.8)	50,000 @L80	ZigBee
	1'X4'	F4040TB1S31.BUAAWAA (LGE-1X4SC-40-40-4000-TB)	40	4000	4000			23.8X23.8X4.1 (605X605X105)	7.9 (3.6)	50,000 @L78	
	2'X2'	FRR640D2H0C.BUAAWAA (LGE-2X4SC-40-35-4000-TB)	32	3500	3200			23.8X47.8X4.1 (605X1,214X105)	12.6 (5.7)	50,000 @L78	
	2'X2'	FRR640D3H0C.BUAAWAA (LGE-2X4SC-40-40-4000-TB)	32	4000	3200			23.8X47.8X4.1 (605X1,214X105)	12.6 (5.7)	50,000 @L78	

- 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
- cETLus Listed to UL 1598, suitable for damp location use (1'X4', 100 lm/W models)
- Based on photometric testing consistent with IES LM-79

