



QLAT8L120014NW13 V2.0

GROW LIGHT TUBE

QLAT8L120014NW13-XXX Series Light Tube (T8) is designed for horticulture application. It can be using on Vertical farming, Greenhouses, Gardening. It is an early-development stage top-lighting solution for commercial horticulture cultivation, or a full-cycle top-lighting solution.



Features:

- Body housing = Plastic with light weight
- AC 100~240V input voltage
- Life time = 30,000 hrs
- 140° degree viewing angle
- RoHS compliance and CE certification
- Easy installation to replace the traditional fluorescent light tube.
- IP 54 to protect luminaire
- All components of LED Light Tube are recyclable and environmental friendly

Specification

Electrical Data

AC Input Voltage	AC 100~240V
Rated Power	14W ± 7%

Light Data

Color temperature (K)	5000K	4000K
Luminous flux	>2500lm	
LED lifespan	>30,000 hrs	
Viewing angle	120°	

Environmental Data

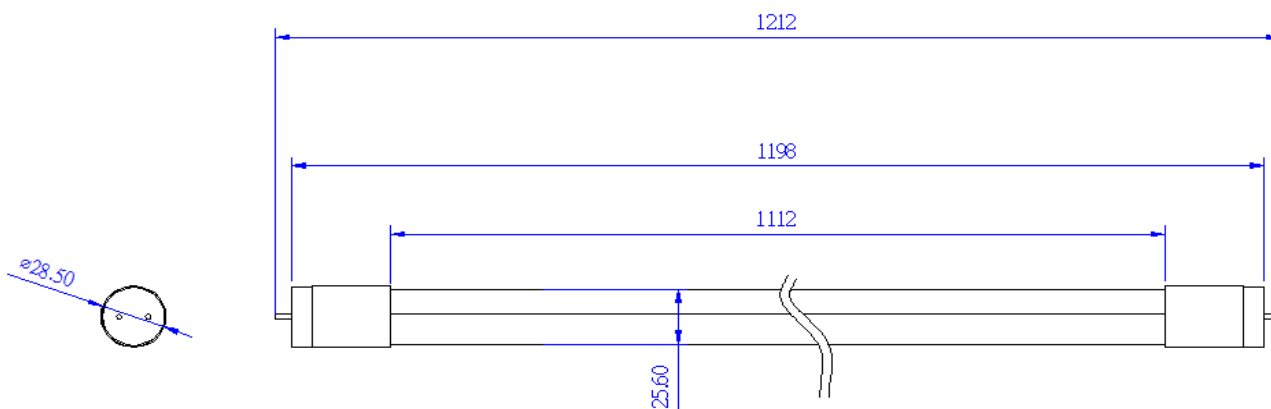
Operating Temp	-25 to 40°C, <70%RH
Storage Temp	-40 to 50 °C, <70%RH
Certificate	CE, RoHS
IP Grade	IP 54

Mechanical Data

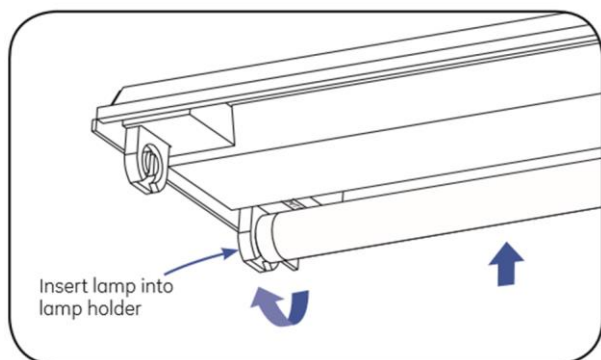
Product finish	Transparent diffuser
Light Fixture Material	Full Plastic
Dimension (LxWxH)	Φ26mm x L 1200mm
Weight	Approx. 200 g



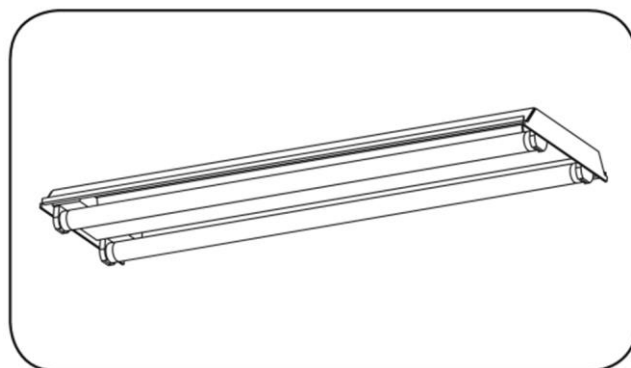
Mechanical Drawing:



Installation of Tube Fixture:

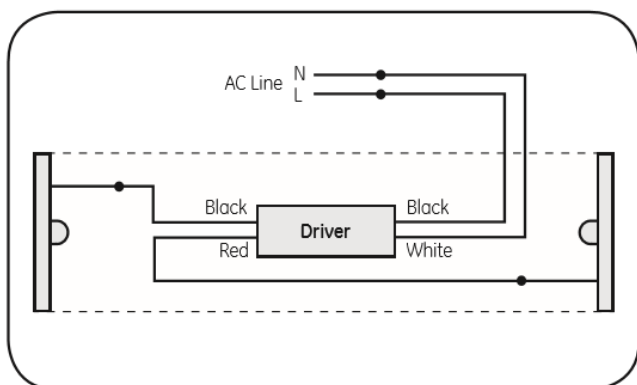


Note: Insert the correct marked end of LED tube into the lamp holder of the fixture and rotate 90 degrees. Repeat for other tubes.

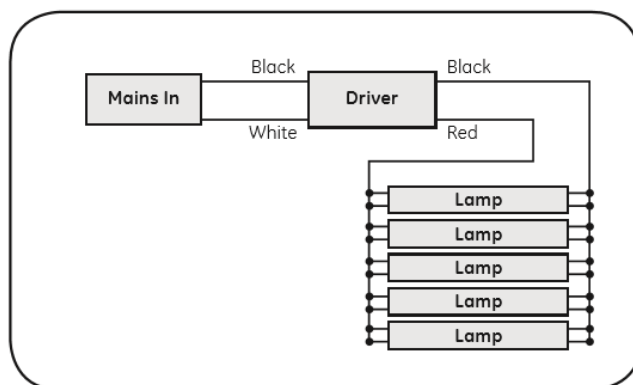


Note: Restore power and ensure lamp operate correctly.

Wiring Diagram:



Note: One LED Tube to One Driver



Note: Multiple Tubes to one Driver



Application: lettuce, the tastiest basil, or other vegetables or fruits



Compliance and Certification:

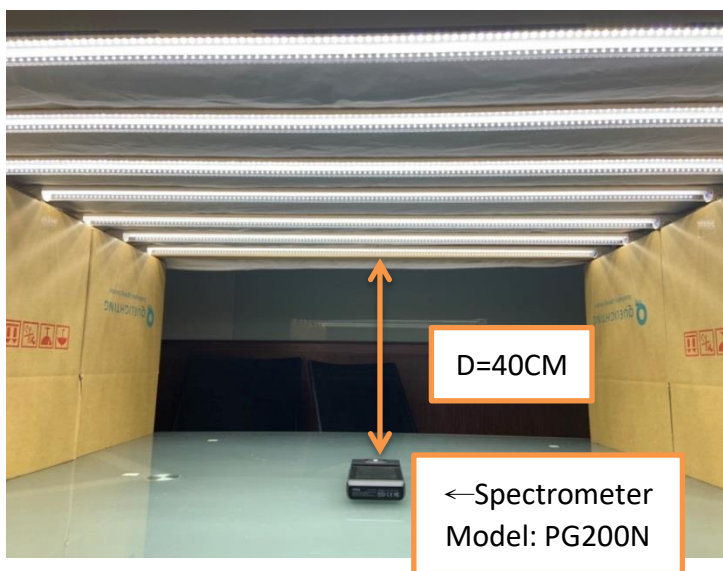


Spectrum Test Report:

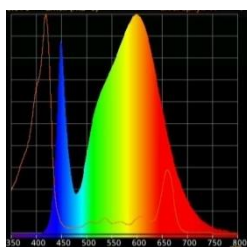
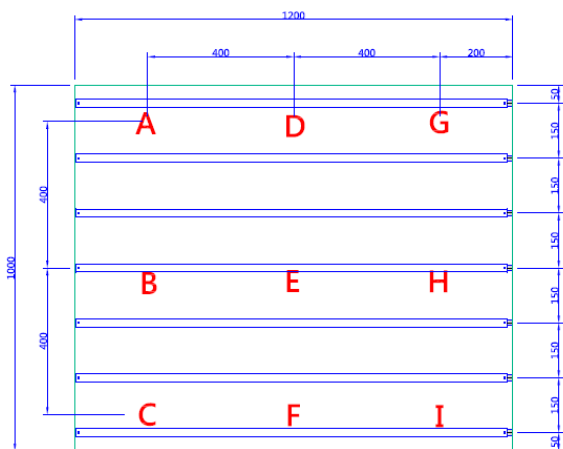
Measurement Condition: 1000x1000mm for Growth Lighting

Distance at 40cm, 30cm , 20cm

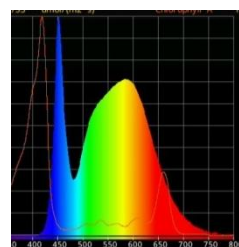
Test by model PG200N Spectrometer unit: $\mu\text{mol}/(\text{m}^2 \cdot \text{s})$



⇒ **7 tubes 98W PPFD**



CCT:4000K



CCT:5000K

T8 (4000K) 7pcs / 1m ² (tube to tube space 15cm)										
Point Distance	A	B	C	D	E	F	G	H	I	PPFD Average
200mm	102.5	170.5	146.1	120	197.6	167.7	106.2	176.6	157.1	149.4
300mm	109.3	157.1	111.8	129.7	187.1	145	115.7	156.3	129.5	137.9
400mm	82.62	133.5	97.02	102.1	157.6	124.4	86.16	134	107.2	113.8

T8 (5000K) 7pcs / 1m ² (tube to tube space 15cm)										
Point Distance	A	B	C	D	E	F	G	H	I	PPFD Average
200mm	132.6	162.4	146.1	116.6	190.3	165.3	113.5	145.9	147.3	146.7
300mm	100.9	149.5	128.4	119.3	176	157.5	90.13	135	121	130.9
400mm	90.84	123.3	98.61	89.92	149.4	117	78.77	126.2	102.2	108.5

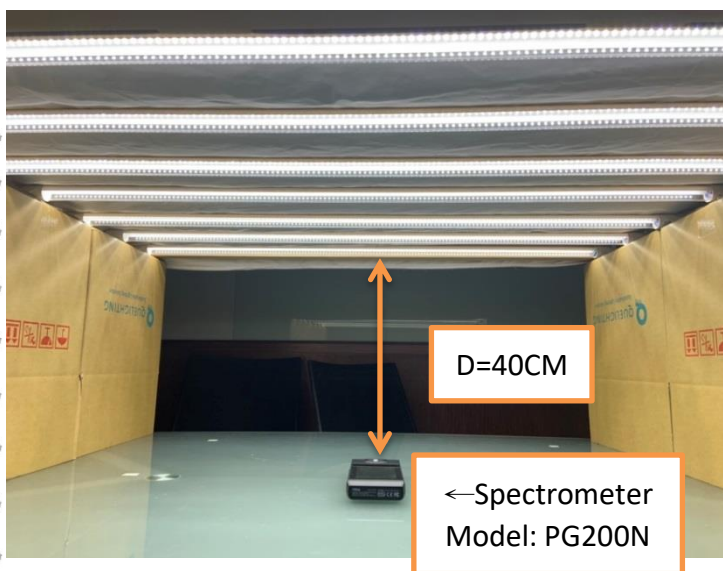


Spectrum Test Report:

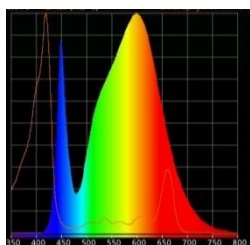
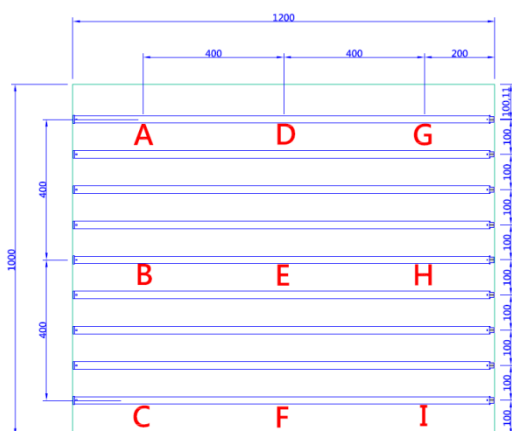
Measurement Condition: 1000x1000mm for Growth Lighting

Distance at 40cm, 30cm, 20cm

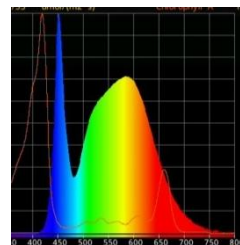
Test by model PG200N Spectrometer unit: $\mu\text{mol}/(\text{m}^2 \cdot \text{s})$



⇒ **9 tubes 126W PPFD**



CCT:4000K



CCT:5000K

T8 (4000K) 9pcs / 1m ² (tube to tube space 10cm)										
Point Distance	A	B	C	D	E	F	G	H	I	PPFD Average
200mm	143.5	238.7	204.54	168	276.64	234.78	148.68	247.24	219.94	209.1
300mm	153.02	157.1	156.52	181.58	261.94	203	161.98	218.82	181.3	186.1
400mm	115.668	133.5	135.828	142.94	220.64	174.16	120.624	187.6	150.08	153.4

T8 (5000K) 9pcs / 1m ² (tube to tube space 10cm)										
Point Distance	A	B	C	D	E	F	G	H	I	PPFD Average
200mm	185.64	227.36	204.54	163.24	266.42	231.42	158.9	204.26	206.22	205.3
300mm	141.26	209.3	179.76	167.02	246.4	220.5	126.182	189	169.4	183.2
400mm	127.176	172.62	138.054	125.888	209.16	163.8	110.278	176.68	143.08	151.9



Packing:
NA

Labeling:

 Quantity: XXXX	 QueLighting P/N: XXXXXX	 Lot number: XXXXX	
Iv Bin: XX	Color Bin: XX	Vf Bin: XX	Date Code: XXXX

Ordering Information:

Part No.	Multiple Quantities	Quantity per BOX
QLALT120014NW13 V2.0		pcs

Revision History:

Revision Date:	Changes:	Version #:
5-15-2020	Initial release	1.0
1-6-2020	Revised-Lower wattage	2.0

