

DesignLights Consortium



Model Number	FLL-4501
Product Name	Full Spectrum High PPE 400W LED grow light
Product ID	H-Y6C4L2
QPL	Horticultural
Manufacturer	FloraFlex Corp.
Brand Name	FloraFlex
DLC Family Code	<a href="#">PPPUFR</a>
Listing Status	Listed
Date Qualified	2024-12-06

PRODUCT INFORMATION VIEW DETAILS

Qualified Product List	Horticultural
Product ID	H-Y6C4L2
Manufacturer	FloraFlex Corp.
Brand	FloraFlex
Product Name	Full Spectrum High PPE 400W LED grow light
Model Number	FLL-4501
Technical Requirements Version	3.0
DLC Family Code	PPPUFR
Parent	Yes
Input Power Type	AC
Fixture Maximum Ambient Temp	35 °C
Width	36 in
Height	2.76 in
Length	36.0 in
Actively Cooling Presence	No

PRODUCT CATEGORIZATION VIEW DETAILS

Controlled Environment	Indoor (Non-stacked), Indoor (Stacked), Greenhouse
Lighting Scheme (Position)	Top light, Intra-canopy
Lighting Scheme (Use Case)	Sole-Source, Supplemental
Category	Horticultural Lighting Fixture

CONTROL FEATURES VIEW DETAILS

Spectrally Tunable	No
Dimmable	Yes
Dimming and Control Method to the Product	0-10V IEC60929 Annex E
Integral Control Capability	Manual Dimming

Connector or Transmission Hardware	RJ-12
Fan Presence	No

## REPORTED PHOTOMETRIC PERFORMANCE VIEW DETAILS

Reported Photosynthetic Photon Efficacy (400-700nm)	2.7 $\mu\text{mol/J}$
Reported Photosynthetic Photon Flux (400-700nm)	1142 $\mu\text{mol/s}$
Reported Minimum Photosynthetic Photon Flux	114 $\mu\text{mol/s}$
Reported Default Photosynthetic Photon Flux	1142 $\mu\text{mol/s}$
Reported Photon Flux Blue (400-500nm)	214 $\mu\text{mol/s}$
Reported Photon Flux Green (500-600nm)	463 $\mu\text{mol/s}$
Reported Photon Flux Red (600-700nm)	465 $\mu\text{mol/s}$
Reported Photon Flux Far Red (700-800nm)	27 $\mu\text{mol/s}$

## REPORTED ELECTRICAL PERFORMANCE VIEW DETAILS

Reported Input Wattage	400 W
Reported Default Input Wattage	400 W
Reported Minimum Input Wattage	40 W
Reported Power Factor	0.98
Voltage Range	120-277 V
Reported Total Harmonic Distortion	4.9 %

## TESTED PHOTOMETRIC PERFORMANCE VIEW DETAILS

Tested Photosynthetic Photon Efficacy (400-700nm)	2.7 $\mu\text{mol/J}$
Tested Photosynthetic Photon Flux (400-700nm)	1142 $\mu\text{mol/s}$
Tested Photon Flux Blue (400-500nm)	214 $\mu\text{mol/s}$
Tested Photon Flux Green (500-600nm)	463 $\mu\text{mol/s}$
Tested Photon Flux Red (600-700nm)	465 $\mu\text{mol/s}$
Tested Photon Flux Far Red (700-800nm)	27 $\mu\text{mol/s}$
Tested Voltage for Minimum Efficacy	240

## TESTED ELECTRICAL PERFORMANCE VIEW DETAILS

Tested Input Wattage	422.9 W
Tested Power Factor	0.98
Tested Total Harmonic Distortion	4.9 %

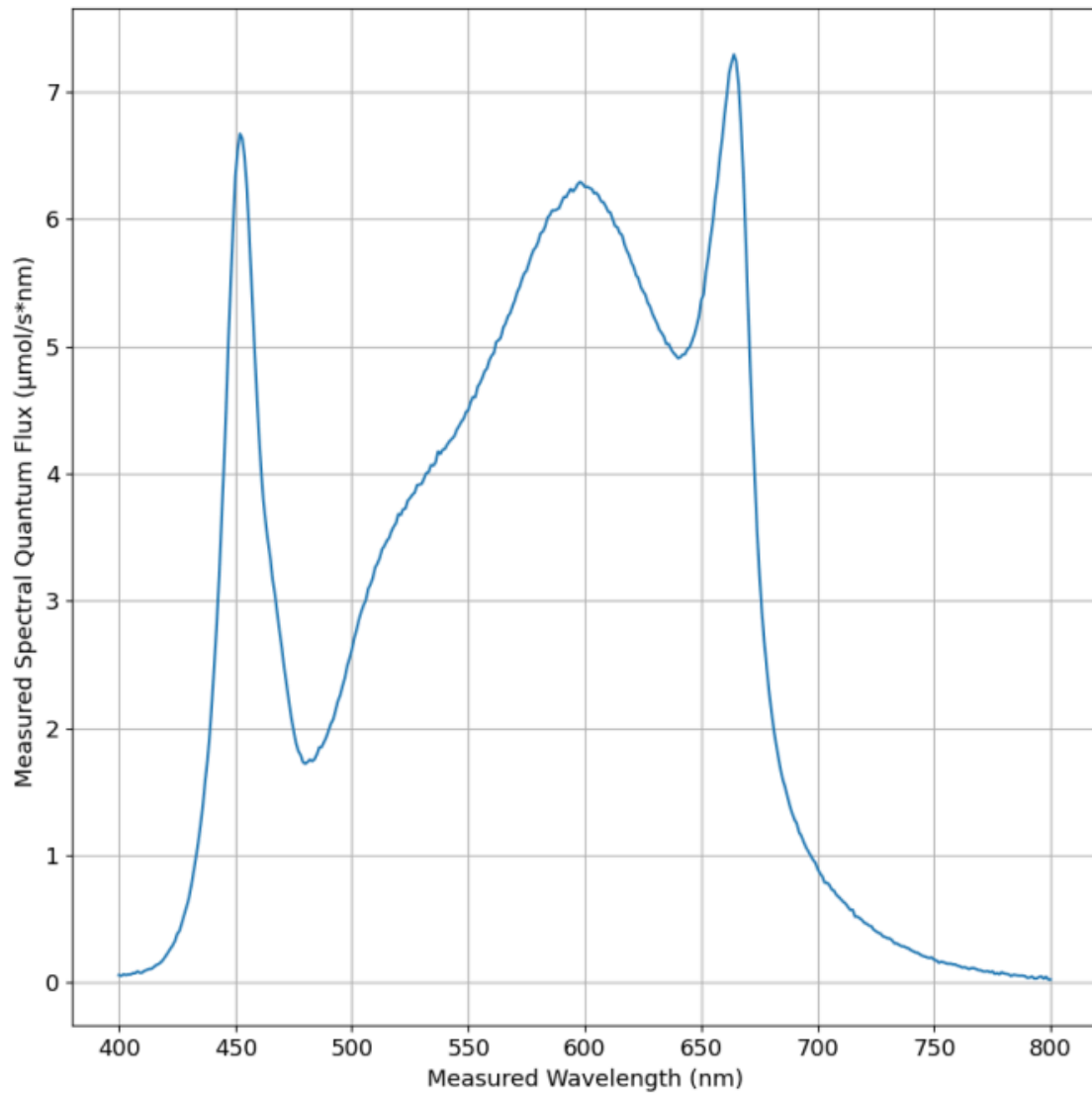
## SQD/PPID VIEW DETAILS

**SQD**

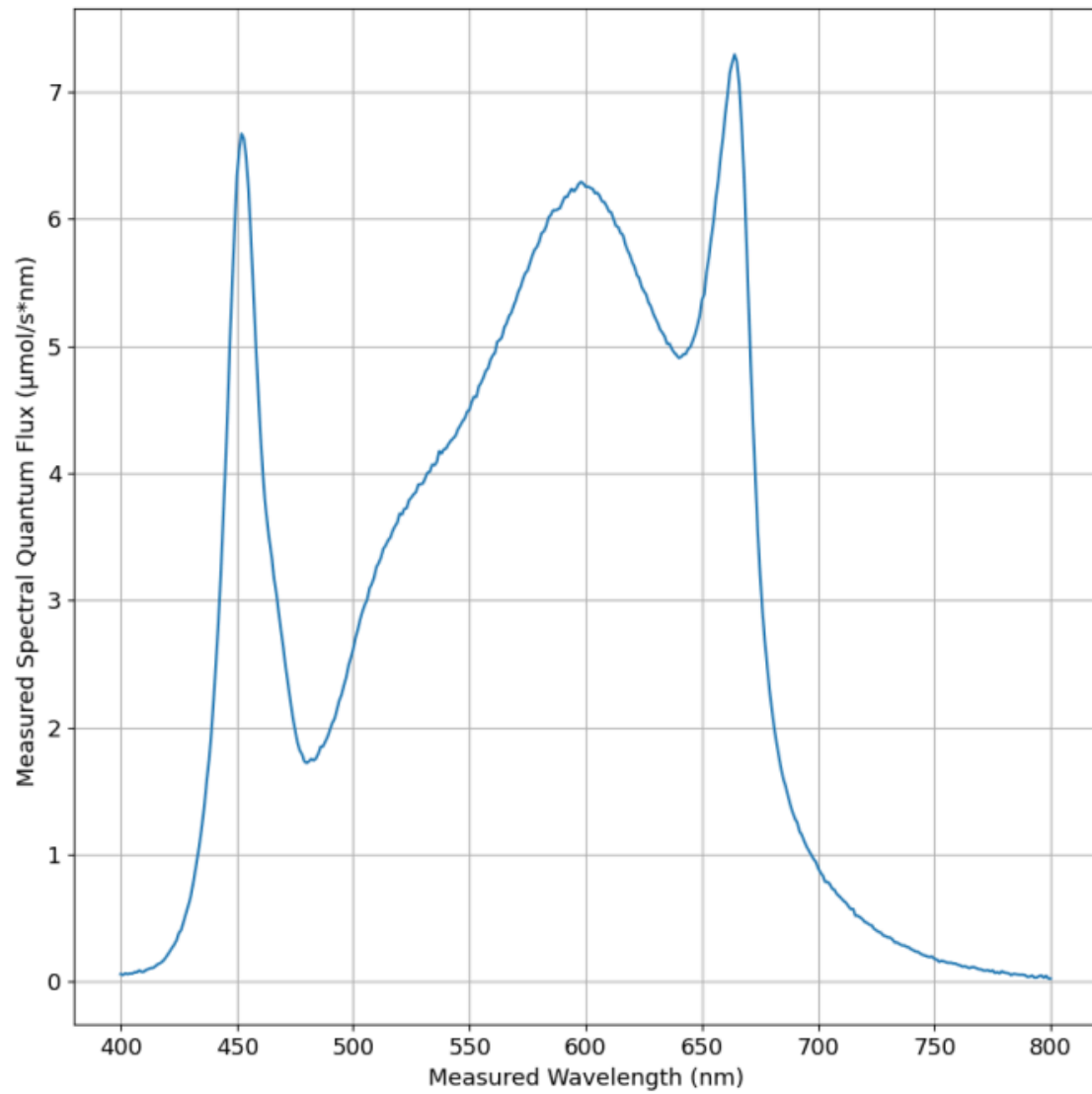
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Spectral Quantum Distribution



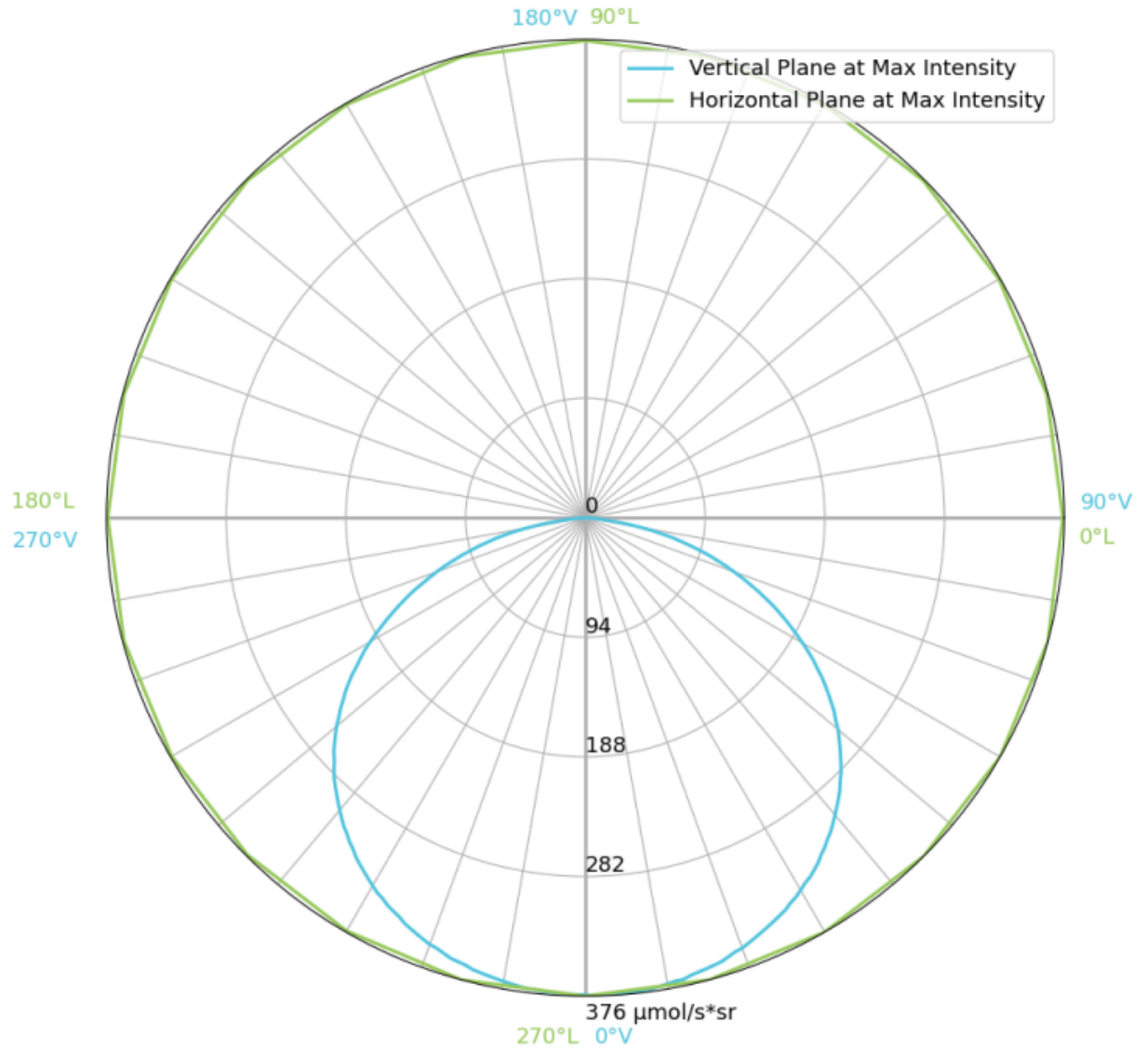
## Spectral Quantum Distribution

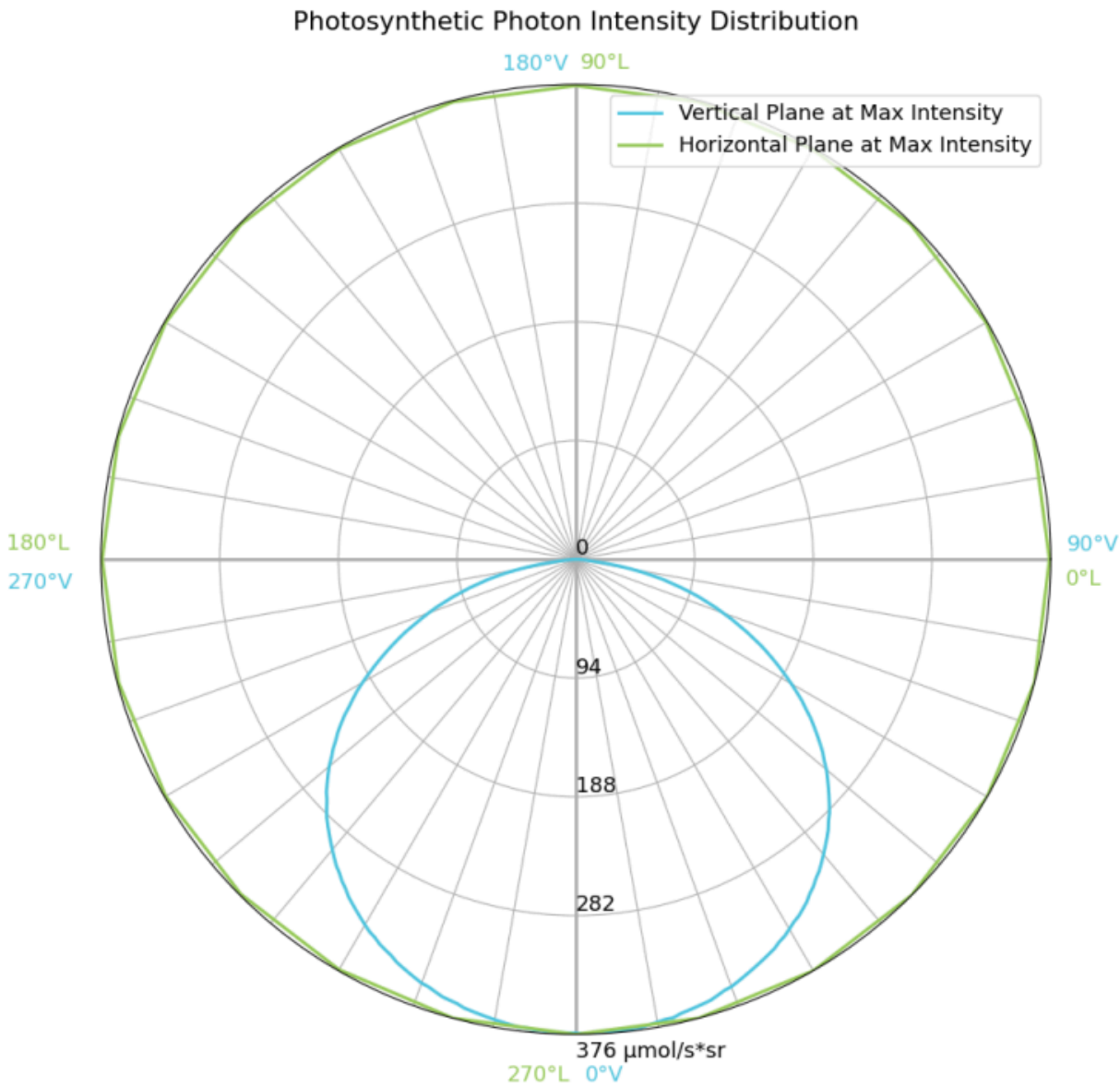


**PPID**

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**Photosynthetic Photon Intensity Distribution**



VERSION HISTORY VIEW DETAILS

2024-12-06	Listed	3
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