DesignLights Consortium







| Model Number | Alpha III (52840) |
|-----------------|-------------------|
| Product Name | Dragon Alpha III |
| Product ID | H-VV878F |
| QPL | Horticultural |
| Manufacturer | Scynce LED |
| Brand Name | Scynce LED |
| DLC Family Code | IIIOVN |
| Listing Status | Listed |
| Date Qualified | 2024-09-30 |

PRODUCT INFORMATION VIEW DETAILS

| Qualified Product List | Horticultural |
|--------------------------------|-------------------|
| Product ID | H-VV878F |
| Manufacturer | Scynce LED |
| Brand | Scynce LED |
| Product Name | Dragon Alpha III |
| Model Number | Alpha III (52840) |
| Technical Requirements Version | 3.0 |
| DLC Family Code | IIIOVN |
| Parent | Yes |
| Input Power Type | AC |
| Fixture Maximum Ambient Temp | 30 °C |
| Width | 7 in |
| Height | 4 in |
| Length | 43.2 in |
| Actively Cooling Presence | No |

PRODUCT CATEGORIZATION VIEW DETAILS

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

CONTROL FEATURES VIEW DETAILS

| Spectrally Tunable | Yes |
|---|------------------------|
| Dimmable | Yes |
| Dimming and Control Method to the Product | YES, Proprietary RS485 |
| Integral Control Capability | Dim to Off |

| Connector or Transmission Hardware | Proprietary Data and Power Plugs | |
|------------------------------------|----------------------------------|--|
| Fan Presence | No | |

REPORTED PHOTOMETRIC PERFORMANCE VIEW DETAILS

| Reported Photosynthetic Photon Efficacy (400-700nm) | 2.46 µmol/J |
|---|---------------|
| Reported Photosynthetic Photon Flux (400-700nm) | 1621 μmol/s |
| Reported Minimum Photosynthetic Photon Flux | 0 μmol/s |
| Reported Default Photosynthetic Photon Flux | 1620.8 µmol/s |
| Reported Photon Flux Blue (400-500nm) | 249 μmol/s |
| Reported Photon Flux Green (500-600nm) | 585 μmol/s |
| Reported Photon Flux Red (600-700nm) | 788 μmol/s |
| Reported Photon Flux Far Red (700-800nm) | 72 μmol/s |
| Reported Photon Flux (280-800nm) | 1695 μmol/s |
| Reported Photon Efficacy (280-800nm) | 2.57 μmol/J |

REPORTED ELECTRICAL PERFORMANCE VIEW DETAILS

| Reported Input Wattage | 658.9 W |
|------------------------------------|-----------|
| Reported Default Input Wattage | 658.9 W |
| Reported Minimum Input Wattage | 1 W |
| Reported Power Factor | 0.995 |
| Voltage Range | 120-480 V |
| Reported Total Harmonic Distortion | 8.1 % |

TESTED PHOTOMETRIC PERFORMANCE VIEW DETAILS

| Tested Photosynthetic Photon Efficacy (400-700nm) | 2.46 μmol/J |
|---|-------------|
| Tested Photosynthetic Photon Flux (400-700nm) | 1621 μmol/s |
| Tested Photon Flux Blue (400-500nm) | 249 µmol/s |
| Tested Photon Flux Green (500-600nm) | 585 μmol/s |
| Tested Photon Flux Red (600-700nm) | 788 µmol/s |
| Tested Photon Flux Far Red (700-800nm) | 72 μmol/s |
| Tested Photon Flux (280-800nm) | 1695 μmol/s |
| Tested Photon Efficacy (280-800nm) | 2.57 μmol/J |
| Tested Voltage for Minimum Efficacy | 120 |

TESTED ELECTRICAL PERFORMANCE VIEW DETAILS

| Tested Input Wattage | 658.9 W |
|----------------------------------|---------|
| Tested Power Factor | 0.942 |
| Tested Total Harmonic Distortion | 10.8 % |

SPECTRAL TUNING PERFORMANCE VIEW DETAILS

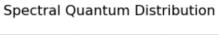
| Reported Photosynthetic Photon Flux (400-700nm) Channel 1 | Cool White 1243 μmol/s 363 μmol/s |
|---|-----------------------------------|
| 700nm) Channel 1 Reported Photon Flux Blue (400-500nm) | |
| | 363 umol/s |
| | ουο μποπο |
| Reported Photon Flux Green (500-600nm) Channel 1 | 586 μmol/s |
| Reported Photon Flux Red (600-700nm) Channel 1 | 294 μmol/s |
| Reported Photon Flux Far Red (700-800nm) Channel 1 | 23 μmol/s |
| Reported Photon Flux (280-800nm) Channel 1 | 1268 μmol/s |
| Tested Photosynthetic Photon Flux (400-700nm) Channel 1 | 1243 μmol/s |
| Tested Photon Flux Blue (400-500nm) Channel 1 | 363 μmol/s |
| Tested Photon Flux Green (500-600nm) Channel 1 | 586 μmol/s |
| Tested Photon Flux Red (600-700nm) Channel 1 | 294 μmol/s |
| Tested Photon Flux Far Red (700-800nm) Channel 1 | 23 μmol/s |
| Tested Photon Flux (280-800nm) Channel 1 | 1268 μmol/s |
| Spectral Channel Name 2 | Warm White |
| Reported Photosynthetic Photon Flux (400-700nm) Channel 2 | 1167 μmol/s |
| Reported Photon Flux Blue (400-500nm) Channel 2 | 115 μmol/s |
| Reported Photon Flux Green (500-600nm) Channel 2 | 510 μmol/s |
| Reported Photon Flux Red (600-700nm) Channel 2 | 541 μmol/s |
| Reported Photon Flux Far Red (700-800nm) Channel 2 | 44 μmol/s |
| Reported Photon Flux (280-800nm) Channel 2 | 1212 μmol/s |
| Tested Photosynthetic Photon Flux (400-700nm) Channel 2 | 1167 μmol/s |
| Tested Photon Flux Blue (400-500nm) Channel 2 | 115 μmol/s |
| Tested Photon Flux Green (500-600nm) Channel 2 | 510 μmol/s |
| Tested Photon Flux Red (600-700nm) Channel 2 | 541 μmol/s |
| Tested Photon Flux Far Red (700-800nm) Channel 2 | 44 μmol/s |
| Tested Photon Flux (280-800nm) Channel 2 | 1212 μmol/s |
| Spectral Channel Name 3 | Red |
| Reported Photosynthetic Photon Flux (400-700nm) Channel 3 | 448 μmol/s |
| Reported Photon Flux Blue (400-500nm) Channel 3 | 0 μmol/s |

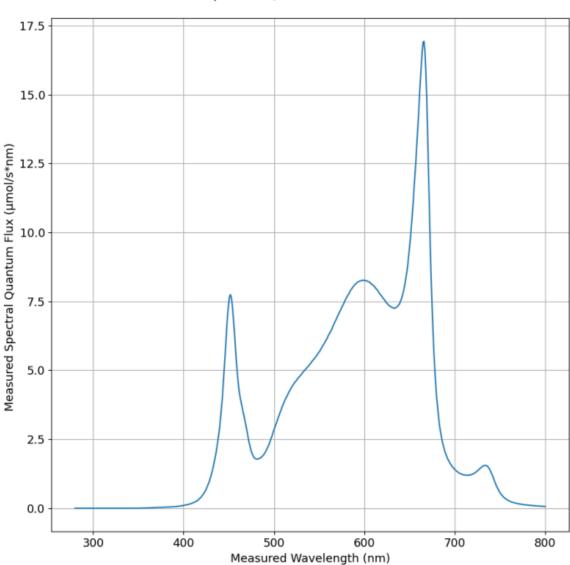
| Reported Photon Flux Green (500-600nm) Channel 31 μmol/sReported Photon Flux Red (600-700nm) Channel 3447 μmol/sReported Photon Flux Far Red (700-800nm) Channel 32 μmol/sReported Photon Flux (280-800nm) Channel 3449 μmol/sTested Photon Flux Blue (400-500nm) Channel 30 μmol/s |
|--|
| Channel 3 Reported Photon Flux Far Red (700-800nm) Channel 3 Reported Photon Flux (280-800nm) 449 µmol/s Tested Photon Flux Blue (400-500nm) 0 µmol/s |
| 800nm) Channel 3 Reported Photon Flux (280-800nm) Channel 3 Tested Photon Flux Blue (400-500nm) 0 μmol/s |
| Channel 3 Tested Photon Flux Blue (400-500nm) 0 μmol/s |
| |
| Charmer 5 |
| Tested Photosynthetic Photon Flux (400-700nm) Channel 3 448 µmol/s |
| Tested Photon Flux Green (500-600nm) Channel 3 1 μmol/s |
| Tested Photon Flux Red (600-700nm) Channel 3 447 μmol/s |
| Tested Photon Flux Far Red (700-800nm) Channel 3 2 µmol/s |
| Tested Photon Flux (280-800nm) Channel 449 µmol/s |
| Spectral Channel Name 4 Far Red |
| Reported Photosynthetic Photon Flux (400-700nm) Channel 4 |
| Reported Photon Flux Blue (400-500nm) Channel 4 0 µmol/s |
| Reported Photon Flux Green (500-600nm) Channel 4 0 µmol/s |
| Reported Photon Flux Red (600-700nm) Channel 4 12 µmol/s |
| Reported Photon Flux Far Red (700-800nm) Channel 4 |
| Reported Photon Flux (280-800nm) Channel 4 157 µmol/s |
| Tested Photosynthetic Photon Flux (400-700nm) Channel 4 |
| Tested Photon Flux Blue (400-500nm) Channel 4 0 μmol/s |
| Tested Photon Flux Green (500-600nm) Channel 4 0 μmol/s |
| Tested Photon Flux Red (600-700nm) Channel 4 12 µmol/s |
| Tested Photon Flux Far Red (700-800nm) Channel 4 144 μmol/s |
| Tested Photon Flux (280-800nm) Channel 4 157 μmol/s |

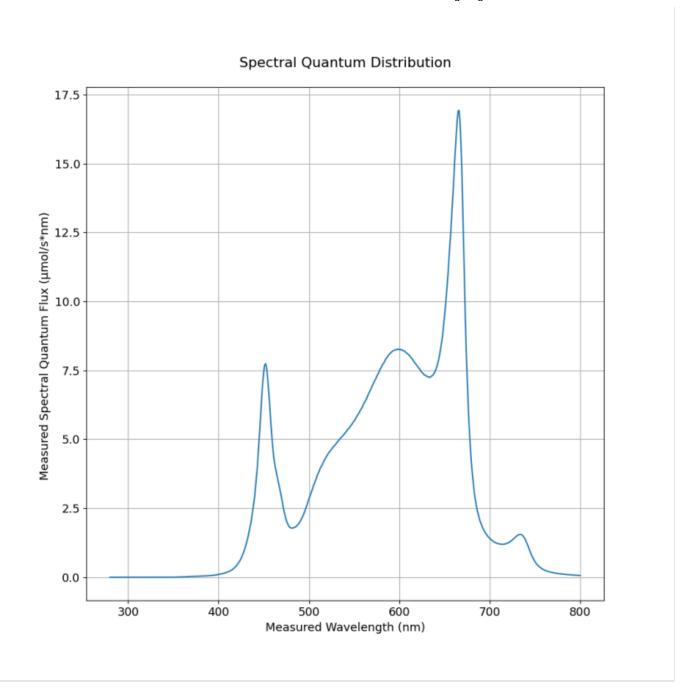
SQD/PPID VIEW DETAILS

SQD Click the image to zoom in.

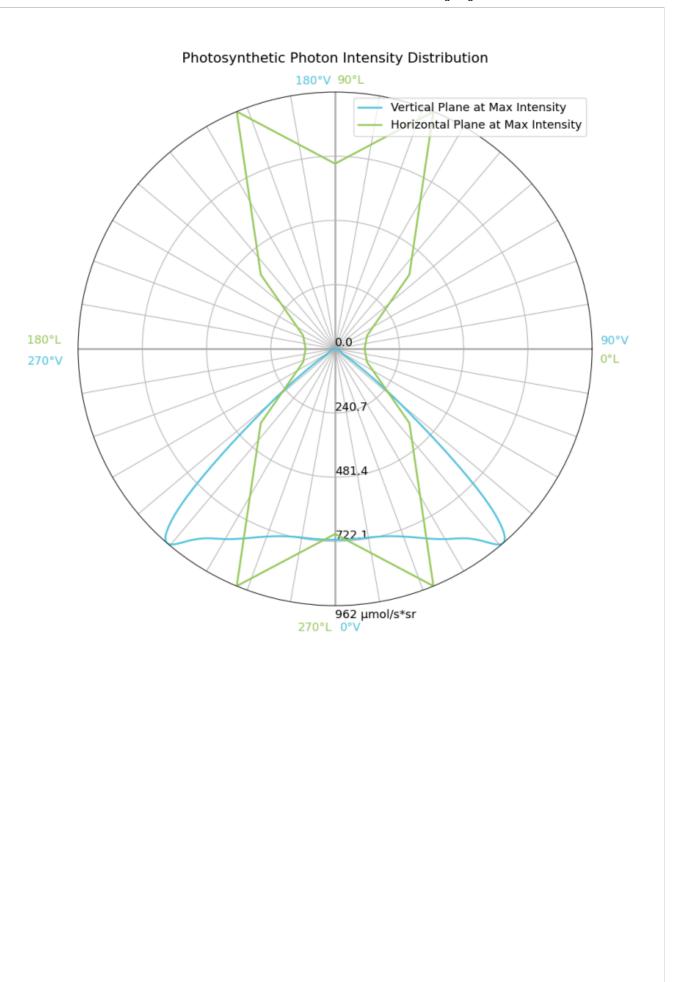
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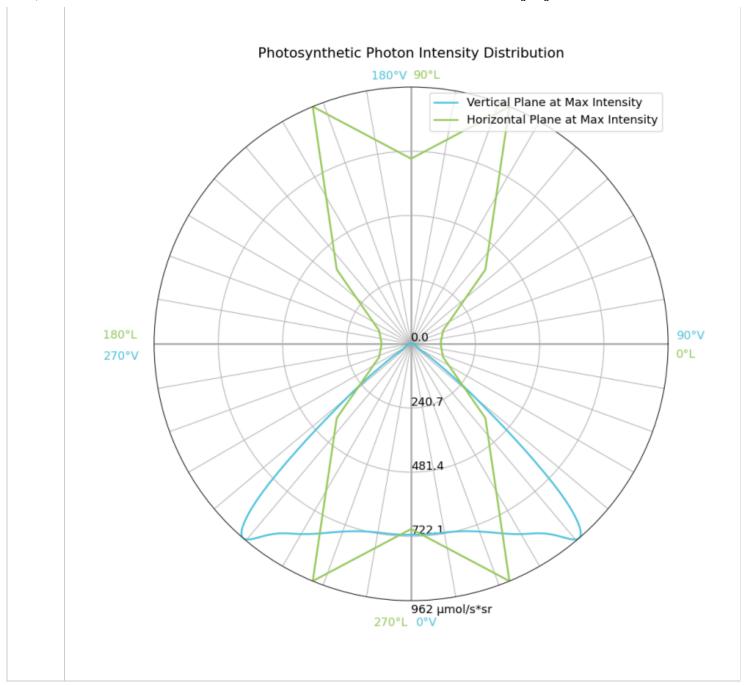




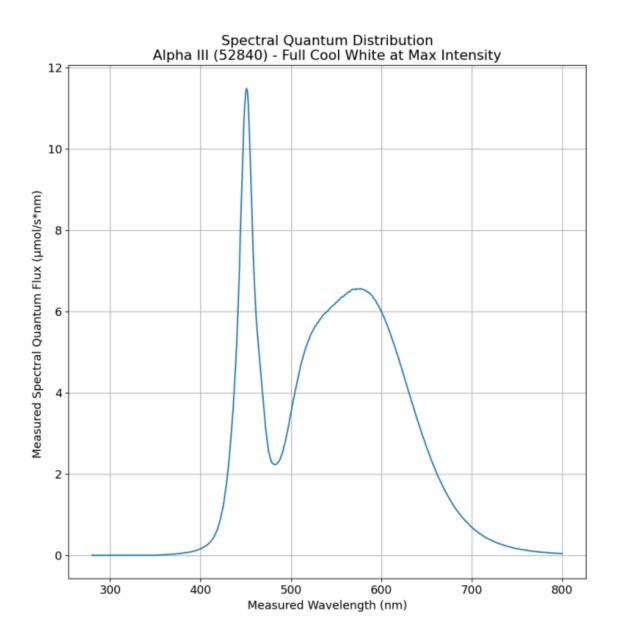


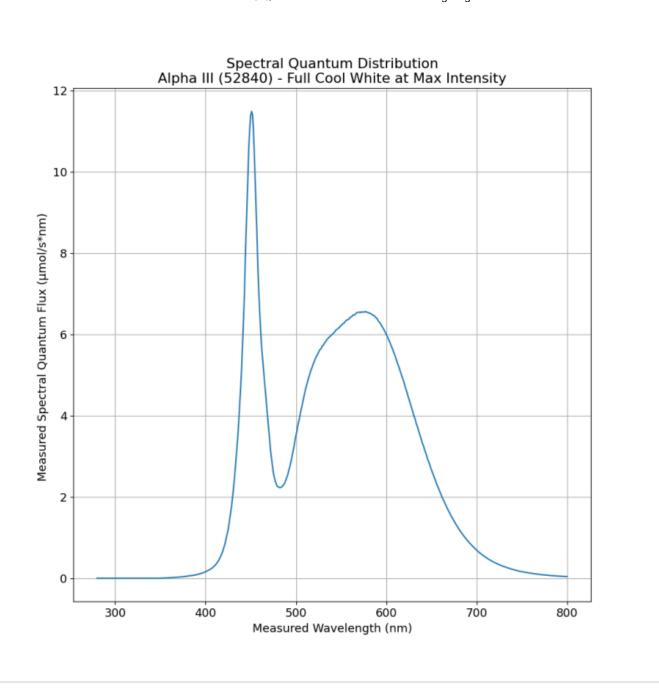
PPID Click the image to zoom in. Download Image



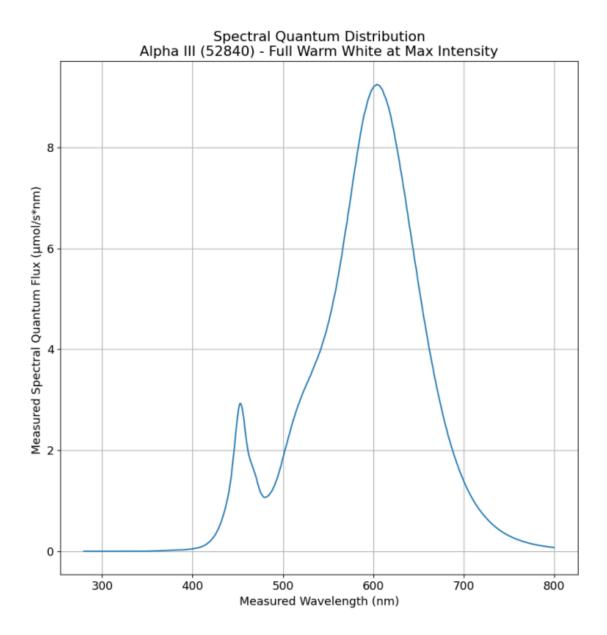


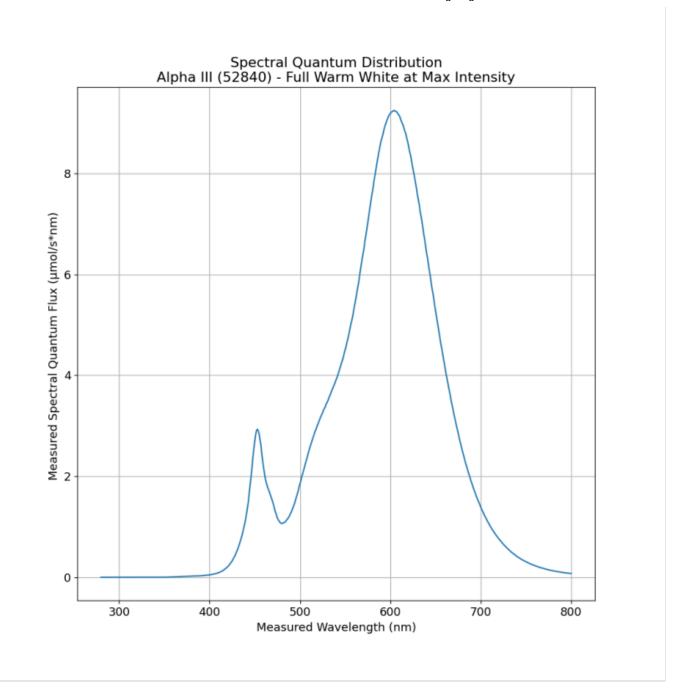
SQD Channel 1 Click the image to zoom in. Download Image



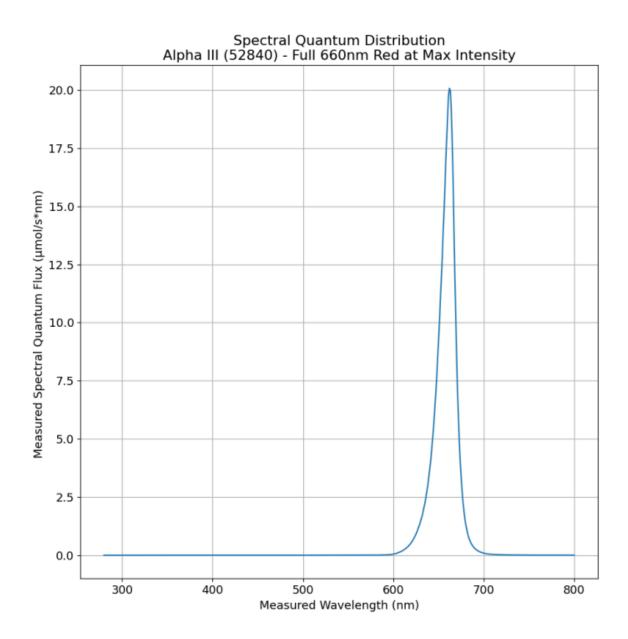


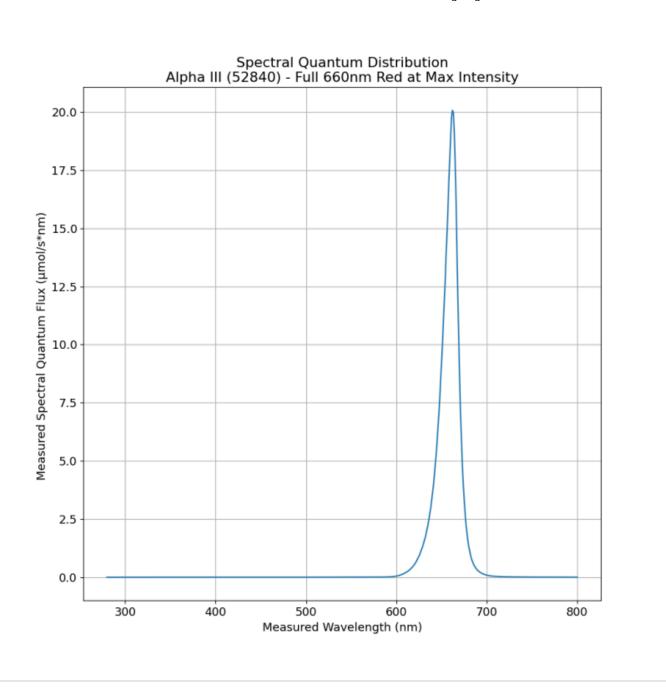
SQD Channel 2 Click the image to zoom in. Download Image



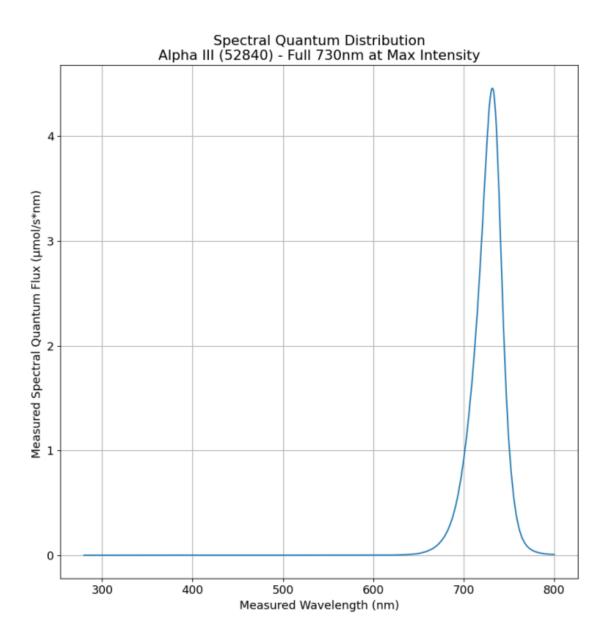


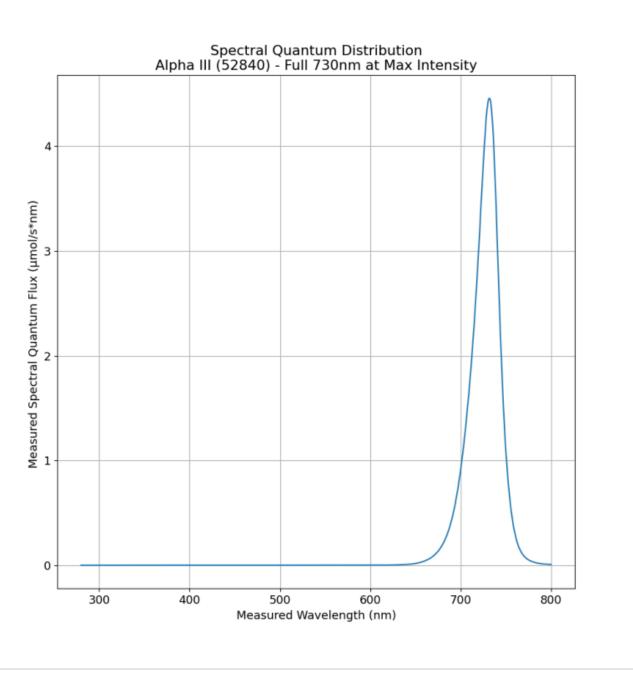
SQD Channel 3 Click the image to zoom in. Download Image





SQD Channel 4 Click the image to zoom in. Download Image





VERSION HISTORY VIEW DETAILS

| 2024-09-30 | Listed | 3 | |
|------------|--------|---|--|
|------------|--------|---|--|