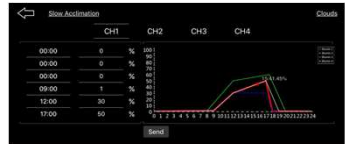


Orphek Atlantik V4

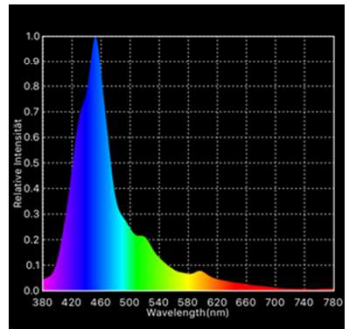
Slow Acclimation

Leistungsaufnahme 95.1 - 96.5 Watt
Messinstrument Spektrometer & Flickermeter
Lighting Passport Pro Essence

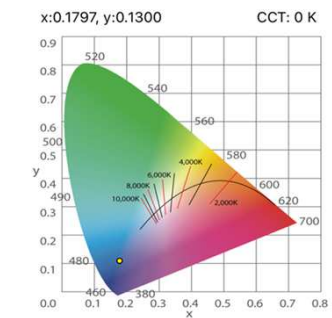


Parameter	Value
PPFD (400~700 nm)	368.43 µmol/m ² s
PPFD FR (701~780 nm)	4.1707 µmol/m ² s
PPFD R (600~700 nm)	22.462 µmol/m ² s
PPFD G (500~599 nm)	74.501 µmol/m ² s
PPFD B (400~499 nm)	271.49 µmol/m ² s
PPFD UV (380~399 nm)	5.6404 µmol/m ² s
YPFD (400~700 nm)	250.91 µmol/m ² s
YPFD (380~780 nm)	251.92 µmol/m ² s
YPFD FR (701~780 nm)	0.0173 µmol/m ² s
YPFD R (600~700 nm)	2.8464 µmol/m ² s
YPFD G (500~599 nm)	41.272 µmol/m ² s
YPFD B (400~499 nm)	206.81 µmol/m ² s
YPFD UV (380~399 nm)	0.8945 µmol/m ² s
R/ B	0.08
R/ FR	5.39
DLI	31.832 mol/m ²
Beleuchtungsstärke	12'152 lux
λp (380~780 nm)	452 nm
λD (380~780 nm)	470 K
CCT	0
CRI	0

Parameter	Value
CCT	0 K
CRI(Ra)	0
CQS	0
TLCI(Qa)	0
GAI	0
Beleuchtungsstärke	12'049 lux
Foot Candle	1119.4 fc
λp	452 nm
Flicker Percentage	90.20%
Flicker Index	0.28
Flicker Frequency	273 Hz



CIE1931



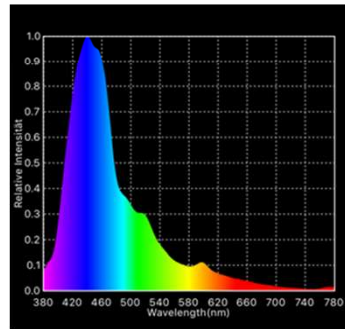
Indreased Coral Growth

Leistungsaufnahme 205.0 - 206.1 Watt
Messinstrument Spektrometer & Flickermeter
Lighting Passport Pro Essence

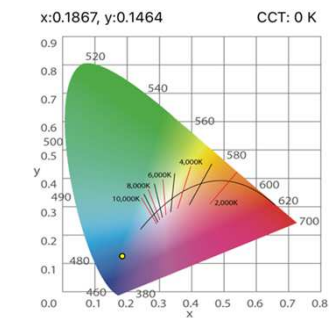


Parameter	Value
PPFD (400~700 nm)	702.84 µmol/m ² s
PPFD FR (701~780 nm)	10.316 µmol/m ² s
PPFD R (600~700 nm)	49.417 µmol/m ² s
PPFD G (500~599 nm)	155.08 µmol/m ² s
PPFD B (400~499 nm)	498.38 µmol/m ² s
PPFD UV (380~399 nm)	17.405 µmol/m ² s
YPFD (400~700 nm)	453.41 µmol/m ² s
YPFD (380~780 nm)	456.44 µmol/m ² s
YPFD FR (701~780 nm)	0.0392 µmol/m ² s
YPFD R (600~700 nm)	6.2698 µmol/m ² s
YPFD G (500~599 nm)	85.794 µmol/m ² s
YPFD B (400~499 nm)	361.37 µmol/m ² s
YPFD UV (380~399 nm)	2.7874 µmol/m ² s
R/ B	0.1
R/ FR	4.79
DLI	60.725 mol/m ²
Beleuchtungsstärke	24'488 lux
λp (380~780 nm)	440 nm
λD (380~780 nm)	471 K
CCT	0
CRI	0

Parameter	Value
CCT	0 K
CRI(Ra)	0
CQS	0
TLCI(Qa)	0
GAI	0
Beleuchtungsstärke	24'487 lux
Foot Candle	2274.9 fc
λp	441 nm
Flicker Percentage	3.00%
Flicker Index	0
Flicker Frequency	273 Hz



CIE1931



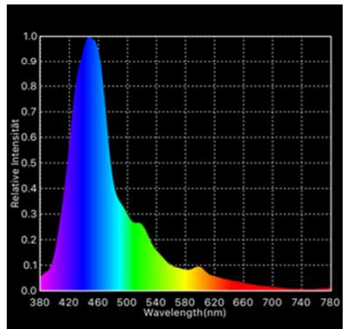
Coral Color

Leistungsaufnahme 168.5 - 169.0 Watt
Messinstrument Spektrometer & Flickermeter
Lighting Passport Pro Essence

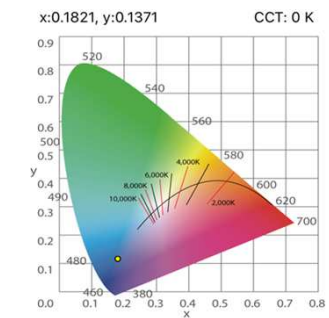


Parameter	Value
PPFD (400~700 nm)	612.75 µmol/m ² s
PPFD FR (701~780 nm)	7.6811 µmol/m ² s
PPFD R (600~700 nm)	39.802 µmol/m ² s
PPFD G (500~599 nm)	129.66 µmol/m ² s
PPFD B (400~499 nm)	443.34 µmol/m ² s
PPFD UV (380~399 nm)	10.033 µmol/m ² s
YPFD (400~700 nm)	410.03 µmol/m ² s
YPFD (380~780 nm)	411.81 µmol/m ² s
YPFD FR (701~780 nm)	0.0314 µmol/m ² s
YPFD R (600~700 nm)	5.0490 µmol/m ² s
YPFD G (500~599 nm)	71.836 µmol/m ² s
YPFD B (400~499 nm)	333.17 µmol/m ² s
YPFD UV (380~399 nm)	1.5906 µmol/m ² s
R/ B	0.09
R/ FR	5.18
DLI	52.942 mol/m ²
Beleuchtungsstärke	20'908 lux
λp (380~780 nm)	447 nm
λD (380~780 nm)	470 K
CCT	0
CRI	0

Parameter	Value
CCT	0 K
CRI(Ra)	0
CQS	0
TLCI(Qa)	0
GAI	0
Beleuchtungsstärke	20'977 lux
Foot Candle	1948.8 fc
λp	448 nm
Flicker Percentage	22.20%
Flicker Index	0.06
Flicker Frequency	273 Hz



CIE1931



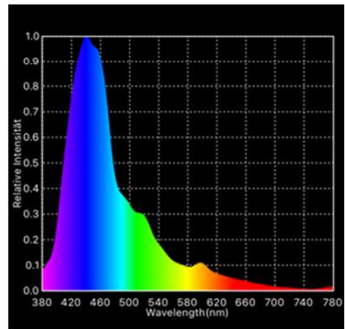
Maintaining fast growth

Leistungsaufnahme 204.3 - 204.6 Watt
Messinstrument Spektrometer & Flickermeter
Lighting Passport Pro Essence

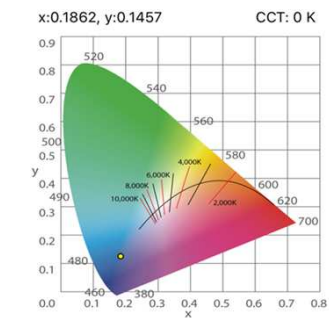


Parameter	Value
PPFD (400~700 nm)	698.78 µmol/m ² s
PPFD FR (701~780 nm)	9.7293 µmol/m ² s
PPFD R (600~700 nm)	48.670 µmol/m ² s
PPFD G (500~599 nm)	153.41 µmol/m ² s
PPFD B (400~499 nm)	496.74 µmol/m ² s
PPFD UV (380~399 nm)	17.147 µmol/m ² s
YPFD (400~700 nm)	451.63 µmol/m ² s
YPFD (380~780 nm)	454.62 µmol/m ² s
YPFD FR (701~780 nm)	0.0375 µmol/m ² s
YPFD R (600~700 nm)	6.1767 µmol/m ² s
YPFD G (500~599 nm)	84.925 µmol/m ² s
YPFD B (400~499 nm)	360.55 µmol/m ² s
YPFD UV (380~399 nm)	2.7478 µmol/m ² s
R/ B	0.1
R/ FR	5
DLI	60.375 mol/m ²
Beleuchtungsstärke	24'270 lux
λp (380~780 nm)	440 nm
λD (380~780 nm)	471 K
CCT	0
CRI	0

Parameter	Value
CCT	0 K
CRI(Ra)	0
CQS	0
TLCI(Qa)	0
GAI	0
Beleuchtungsstärke	24'355 lux
Foot Candle	2262.6 fc
λp	440 nm
Flicker Percentage	3.00%
Flicker Index	0.00%
Flicker Frequency	273 Hz



CIE1931



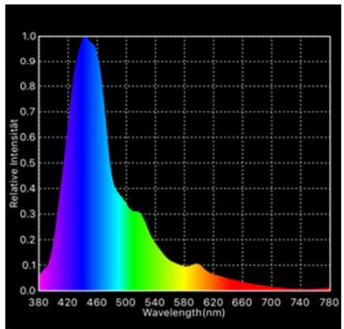
Coral Coler + Growth

Leistungsaufnahme 187.0 - 189.2 Watt
Messinstrument Spektrometer & Flickermeter
Lighting Passport Pro Essence

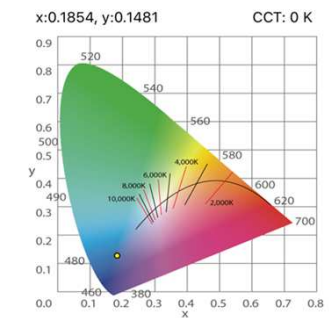


Parameter	Value
PPFD (400~700 nm)	665.75 µmol/m ² s
PPFD FR (701~780 nm)	8.7382 µmol/m ² s
PPFD R (600~700 nm)	46.127 µmol/m ² s
PPFD G (500~599 nm)	151.20 µmol/m ² s
PPFD B (400~499 nm)	468.46 µmol/m ² s
PPFD UV (380~399 nm)	12.515 µmol/m ² s
YPFD (400~700 nm)	436.26 µmol/m ² s
YPFD (380~780 nm)	438.47 µmol/m ² s
YPFD FR (701~780 nm)	0.0356 µmol/m ² s
YPFD R (600~700 nm)	5.8474 µmol/m ² s
YPFD G (500~599 nm)	83.820 µmol/m ² s
YPFD B (400~499 nm)	346.61 µmol/m ² s
YPFD UV (380~399 nm)	2.0025 µmol/m ² s
R/ B	0.1
R/ FR	5.28
DLI	57.521 mol/m ²
Beleuchtungsstärke	23'856 lux
λp (380~780 nm)	444 nm
λD (380~780 nm)	472 K
CCT	0
CRI	0

Parameter	Value
CCT	0 K
CRI(Ra)	0
CQS	0
TLCI(Qa)	0
GAI	0
Beleuchtungsstärke	24'207 lux
Foot Candle	2248.9 fc
λp	444 nm
Flicker Percentage	13.10%
Flicker Index	0.03
Flicker Frequency	273 Hz

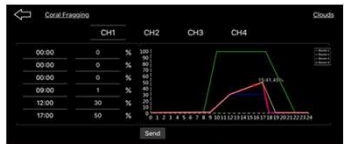


CIE1931



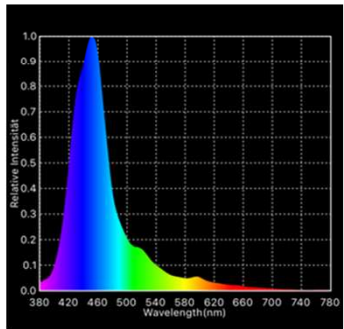
Coral Fragging

Leistungsaufnahme 127.3- 127.4 Watt
Messinstrument Spektrometer & Flickermeter
Lighting Passport Pro Essence

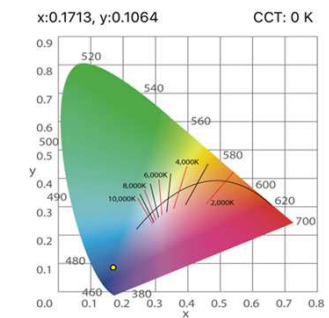


Parameter	Value
PPFD (400~700 nm)	503.66 µmol/m ² s
PPFD FR (701~780 nm)	4.7132 µmol/m ² s
PPFD R (600~700 nm)	22.876 µmol/m ² s
PPFD G (500~599 nm)	81.745 µmol/m ² s
PPFD B (400~499 nm)	399.08 µmol/m ² s
PPFD UV (380~399 nm)	6.2217 µmol/m ² s
YPFD (400~700 nm)	354.42 µmol/m ² s
YPFD (380~780 nm)	355.57 µmol/m ² s
YPFD FR (701~780 nm)	0.0188 µmol/m ² s
YPFD R (600~700 nm)	2.9006 µmol/m ² s
YPFD G (500~599 nm)	45.420 µmol/m ² s
YPFD B (400~499 nm)	306.13 µmol/m ² s
YPFD UV (380~399 nm)	0.9905 µmol/m ² s
R/ B	0.06
R/ FR	4.85
DLI	43.516 mol/m ²
Beleuchtungsstärke	14'200 lux
λp (380~780 nm)	451 nm
λD (380~780 nm)	468 K
CCT	0
CRI	0

Parameter	Value
CCT	0 K
CRI(Ra)	0
CQS	0
TLCI(Qa)	0
GAI	0
Beleuchtungsstärke	14'130 lux
Foot Candle	1312.8 fc
λp	451 nm
Flicker Percentage	29.30%
Flicker Index	0.11
Flicker Frequency	273 Hz

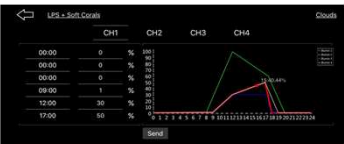


CIE1931



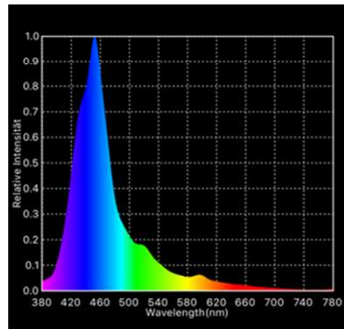
LPS + Soft Corals

Leistungsaufnahme 107.7 - 109.2 Watt
Messinstrument Spektrometer & Flickermeter
Lighting Passport Pro Essence



Parameter	Value
PPFD (400~700 nm)	425.49 µmol/m ² s
PPFD FR (701~780 nm)	4.4212 µmol/m ² s
PPFD R (600~700 nm)	22.597 µmol/m ² s
PPFD G (500~599 nm)	76.913 µmol/m ² s
PPFD B (400~499 nm)	326.02 µmol/m ² s
PPFD UV (380~399 nm)	5.8589 µmol/m ² s
YPFD (400~700 nm)	295.36 µmol/m ² s
YPFD (380~780 nm)	296.42 µmol/m ² s
YPFD FR (701~780 nm)	0.0179 µmol/m ² s
YPFD R (600~700 nm)	2.8609 µmol/m ² s
YPFD G (500~599 nm)	42.662 µmol/m ² s
YPFD B (400~499 nm)	249.86 µmol/m ² s
YPFD UV (380~399 nm)	0.9302 µmol/m ² s
R/ B	0.07
R/ FR	5.11
DLI	36.762 mol/m ²
Beleuchtungsstärke	12'946 lux
λp (380~780 nm)	452 nm
λD (380~780 nm)	469 K
CCT	0
CRI	0

Parameter	Value
CCT	0 K
CRI(Ra)	0
CQS	0
TLCI(Qa)	0
GAI	0
Beleuchtungsstärke	12796 lux
Foot Candle	1188.8 fc
λp	452 nm
Flicker Percentage	76.40%
Flicker Index	0.17
Flicker Frequency	273 Hz



CIE1931

