Photometrics Report

ROXX®

B.SHOW mini TW+

PHOTOMETRICS REPORT

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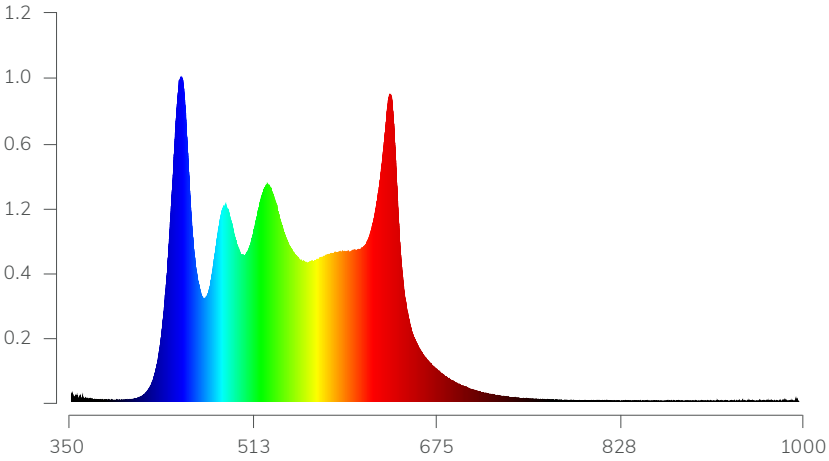
With the SHOW mini series, ROXX® continues to meet the demand for very powerful, weatherproof lighting for the entertainment and architectural sectors and offers a battery version as an important innovation. The fl exibility and variety of options previously offered by its bigger brother E.SHOW in terms of light quality, size and accessories is now even more pronounced thanks to the completely wireless application option, offering customers that certain extra freedom of choice. Thanks to the new B.SHOW mini, you can say goodbye to tangled cables for ultimate fl exibility without compromise. The powerful lithium-ion battery ensures reliable operation and a runtime of up to 24 hours. The integrated battery management system protects against deep discharge and overcharging. The integrated CRMX transceiver module offers the latest wireless technology from Lumenradio, and the headlamp can also be conveniently controlled via Bluetooth using the ROXX.APP. The ROXX® B.SHOW mini series uses the already popular single-source LEDs that produce a very uniform, powerful light without colour or multi-shadows, and LED variants including a Tunable White (RGBALC) and a Full Colour (RGB+Lime) version. Both circular and elliptical emitting Micro Fresnel lenses can be changed easily, quickly and without tools, as usual, thanks to the specially developed and protected ROXX® R.LOK® technology. The beam angle can thus be conveniently adjusted, whether 14°, 23°, 35°, 52° or elliptical 30° x 15° and 46° x 17.5°.

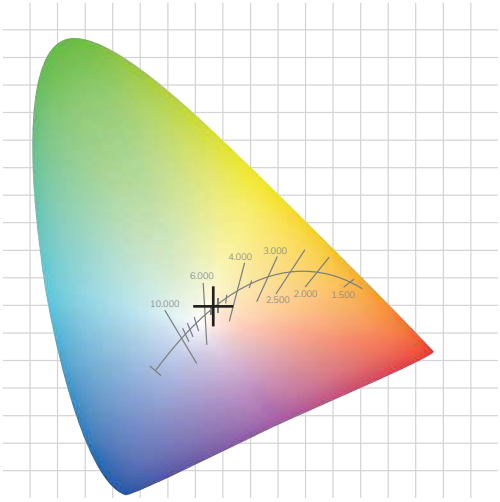
Spectral Distribution
RGBALC

Color Parameters RGBALC | CALIBRATED

Luminous Flux (Calibrated)	Power Consumption	Color Temperature	Color Rendering Index	Television Lighting Concistency Index	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
2859.6 lm	61.08 W	5.536 K	90.0	94.2	x 0.3315	y 0.3378

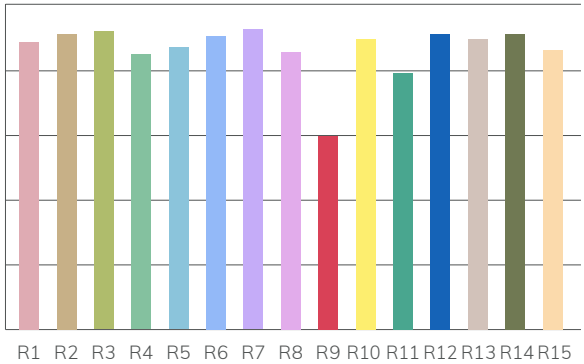
Spectrum





CIE 1931 EVERFINE
x = 0.3315 | y = 0.3378
CCT = 5.536 K

CRI: 90.0

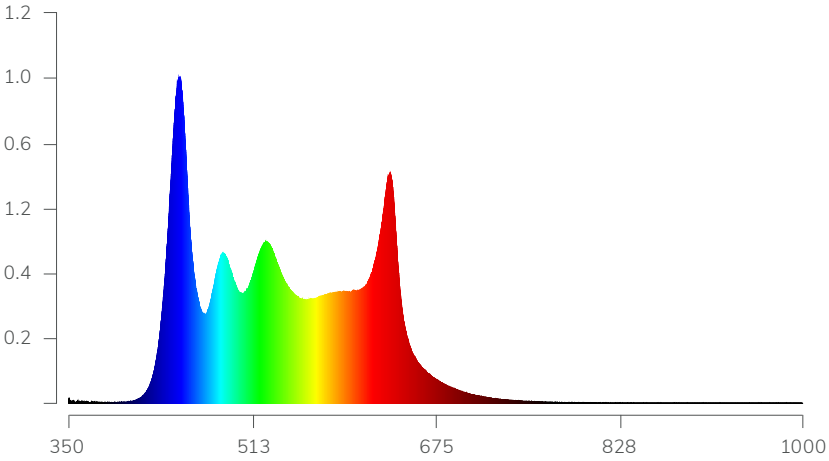


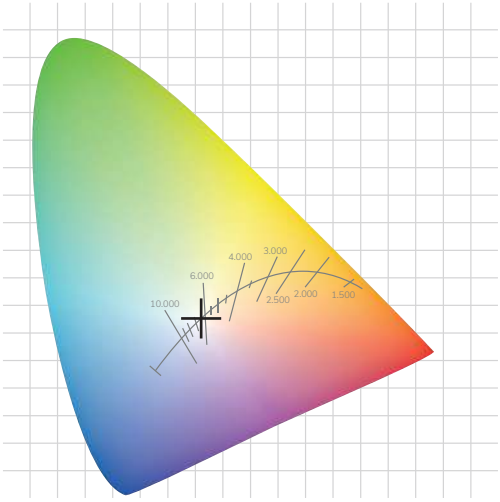
Spectral Distribution
RGBALC

Color Parameters RGBALC | RAW

Luminous Flux (Raw)	Power Consumption	Color Temperature	Color Rendering Index	Television Lighting Concistency Index	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
2868.2lm	63.33W	6.587 K	85.0	95.6	x 0.3144	y 0.3075

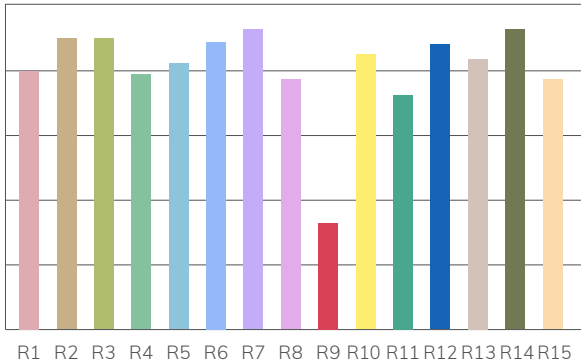
Spectrum





CIE 1931 EVERFINE
x = 0.3144 | y = 0.3075
CCT = 6.587 K

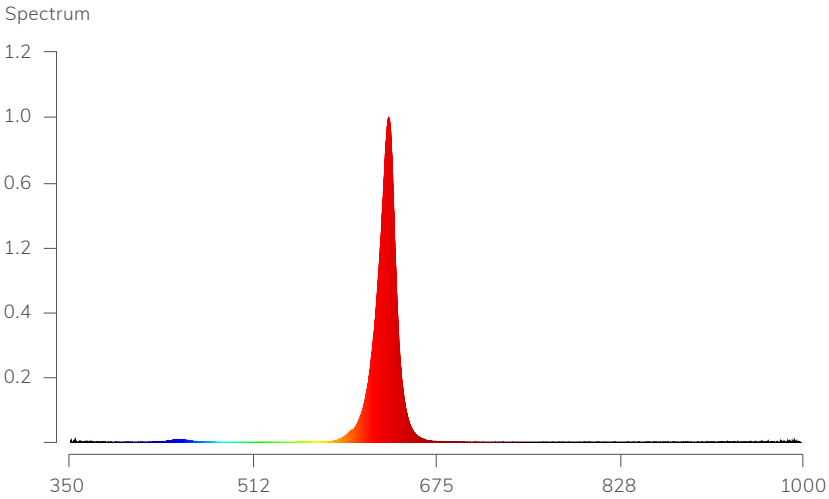
CRI:85.0

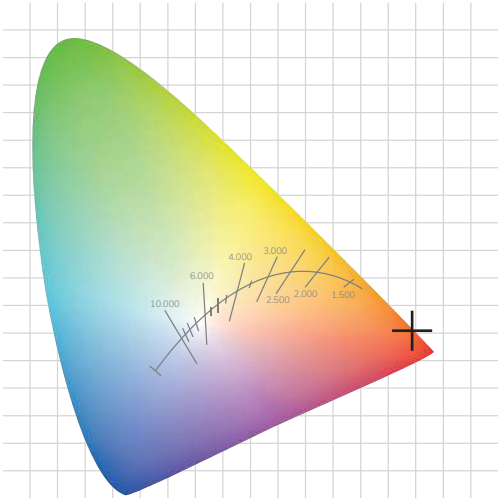


Spectral Distribution
RED

Color Parameters RED | CALIBRATED

Luminous Flux (Calibrated)	Power Consumption	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
218.44 lm	13.62 W	x 0.6851	y 0.2961

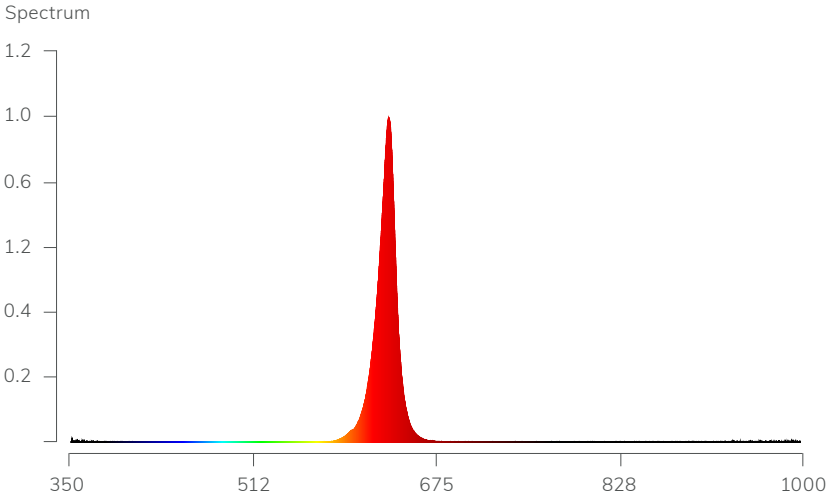


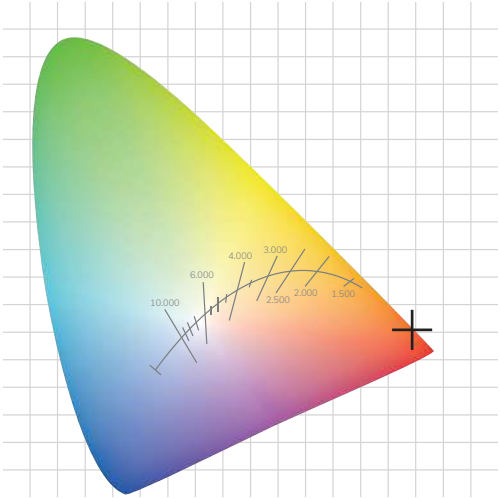


CIE 1931 EVERFINE
x = 0.6851 | y = 0.2961

Color Parameters RED | RAW

Luminous Flux (Raw)	Power Consumption	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
209.87 lm	13.46 W	x 0.6985	y 0, 2962



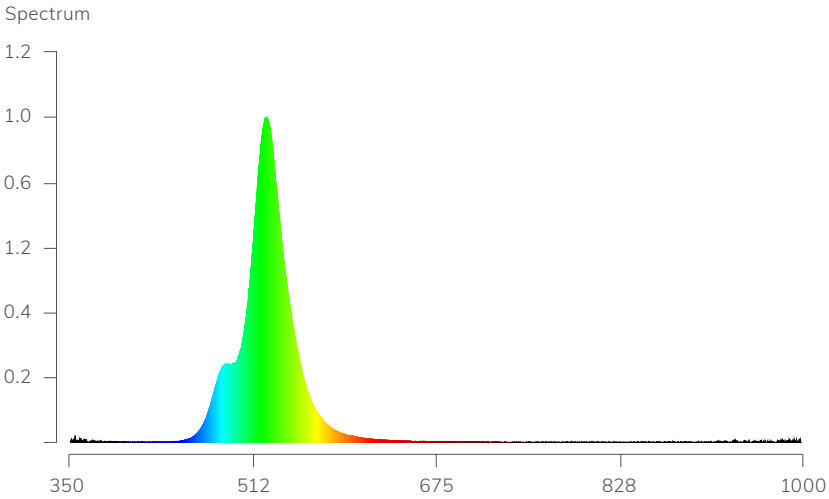


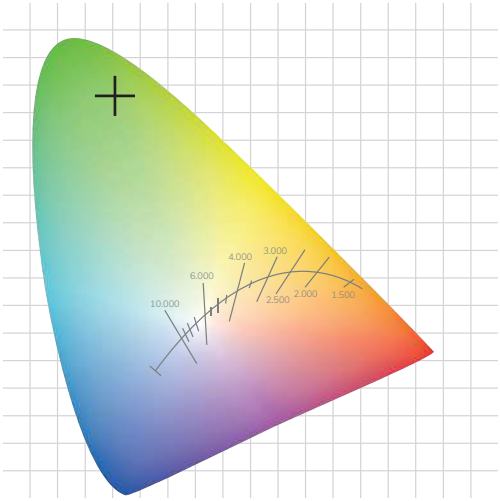
CIE 1931 EVERFINE
x = 0.6985 | y = 0.3012

Spectral Distribution
GREEN

Color Parameters GREEN | CALIBRATED

Luminous Flux (Calibrated)	Power Consumption	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
666.11lm	16.27	x 0.1870	y 0.6653

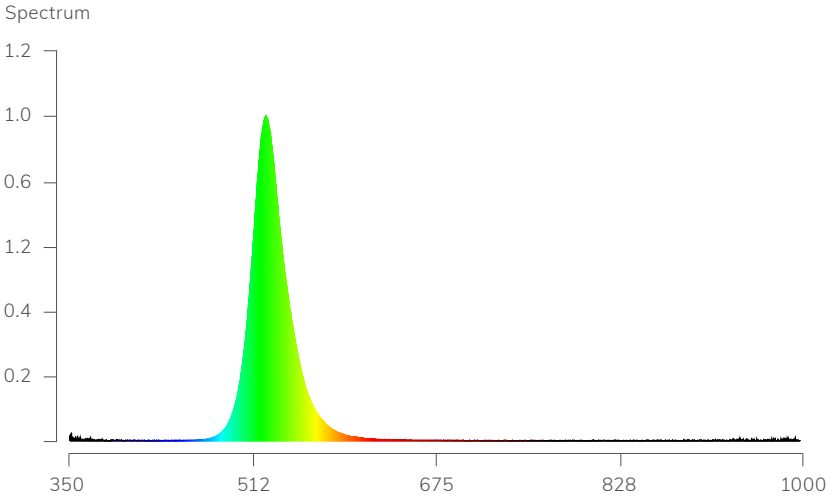


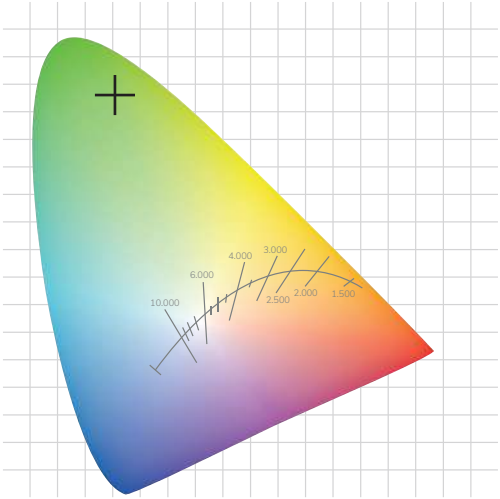


CIE 1931 EVERFINE
x = 0.1870 | y = 0.6653

Color Parameters GREEN | RAW

Luminous Flux (Raw)	Power Consumption	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
603.63 lm	14.88 W	x 0.1971	y 0.7314



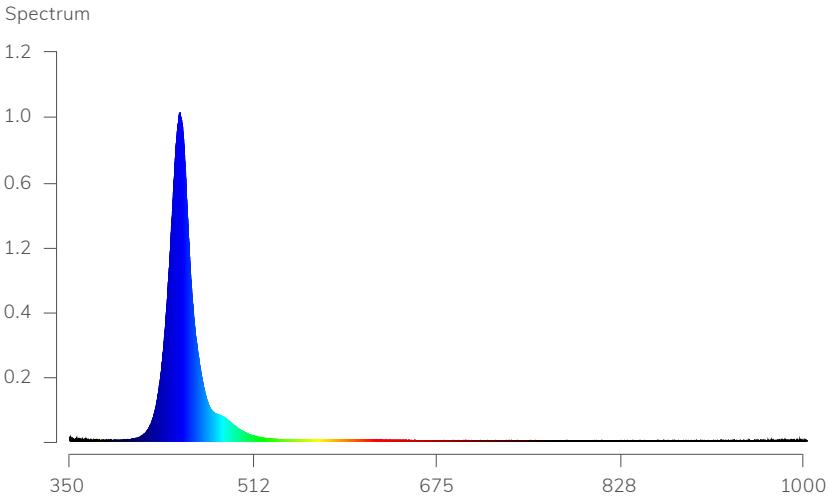


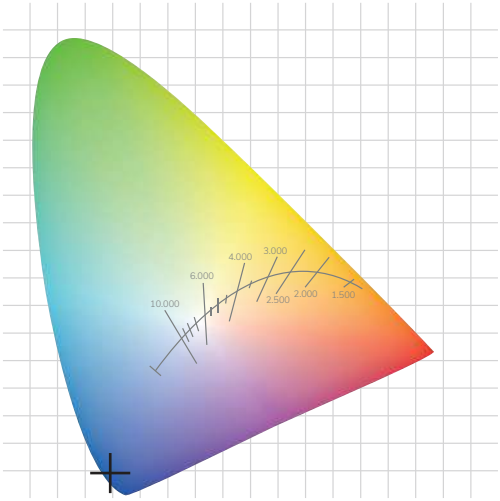
CIE 1931 EVERFINE
x = 0.1971 | y = 0.7314

Spectral Distribution
BLUE

Color Parameters BLUE | CALIBRATED

Luminous Flux (Calibrated)	Power Consumption	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
120.12 lm	16.01 W	x 0.1568	y 0.0333

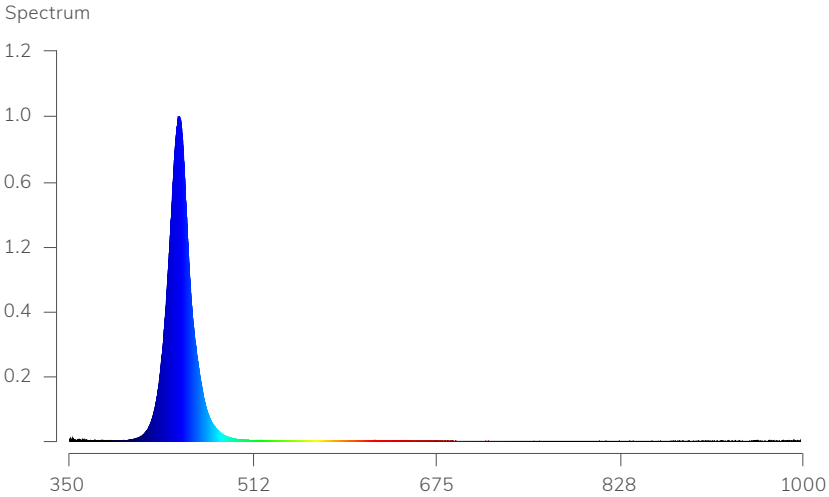


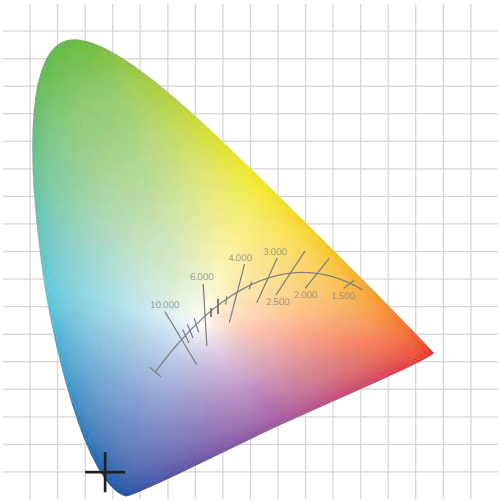


CIE 1931 EVERFINE
x = 0.1568 | y = 0.0333

Color Parameters BLUE | RAW

Luminous Flux (Raw)	Power Consumption	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
87.169 lm	15.03 W	x 0.1590	y 0.0253



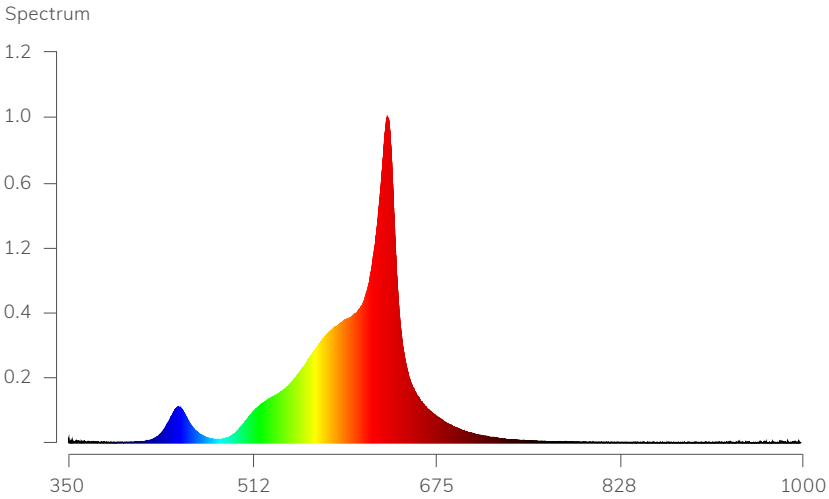


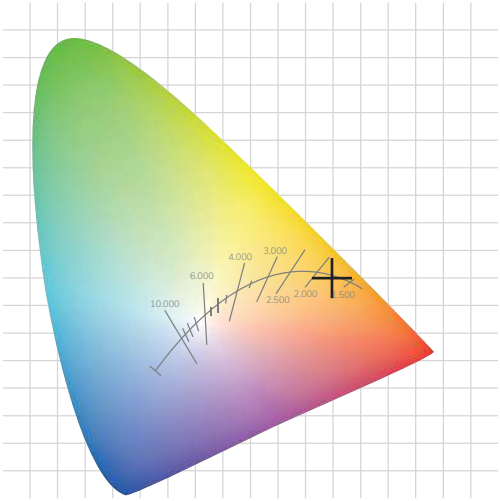
CIE 1931 EVERFINE
x = 0.1590 | y = 0.0253

Spectral Distribution
AMBER

Color Parameters AMBER | CALIBRATED

Luminous Flux (Calibrated)	Power Consumption	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
1396.8 lm	33.24 W	x 0.5231	y 0.4027

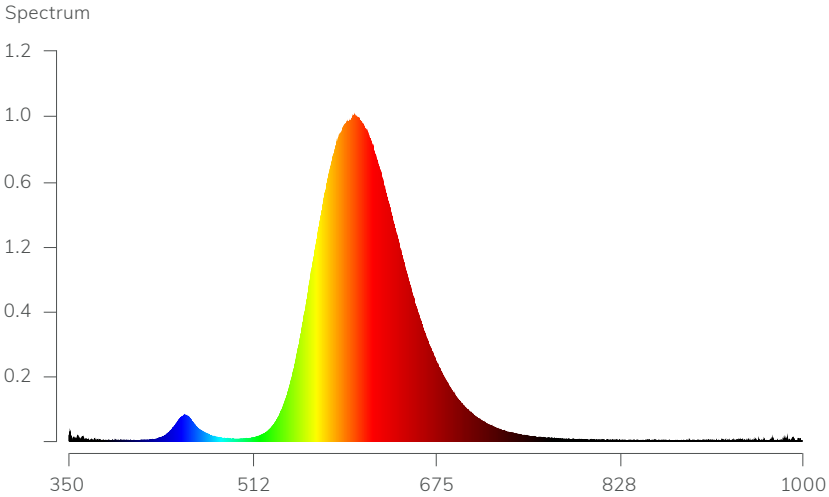


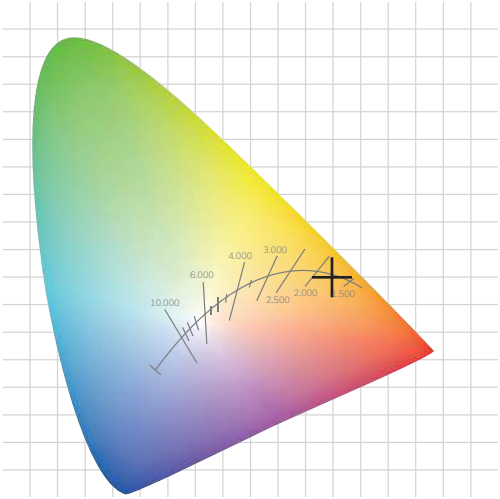


CIE 1931 EVERFINE
x = 0.5231 | y = 0.4027

Color Parameters AMBER | RAW

Luminous Flux (Raw)	Power Consumption	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
635.09 lm	20.07 W	x 0.5619	y 0.4076



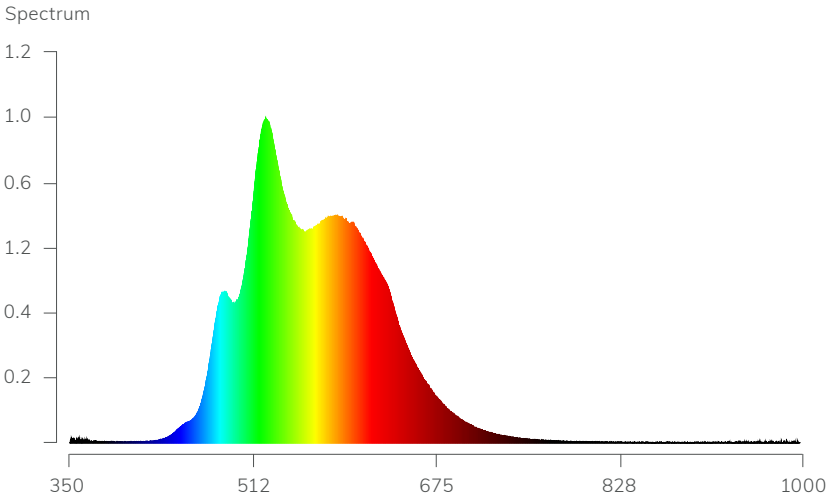


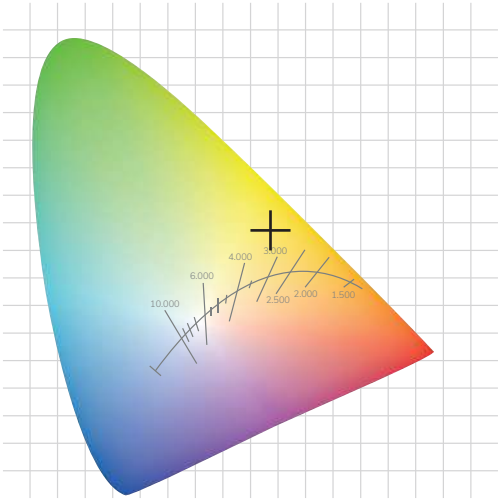
CIE 1931 EVERFINE
x = 0.5619 | y = 0,0.4076

Spectral Distribution
LIME

Color Parameters LIME | CALIBRATED

Luminous Flux (Calibrated)	Power Consumption	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
2499.1 lm	45.13 W	x 0.3986	y 0.5077

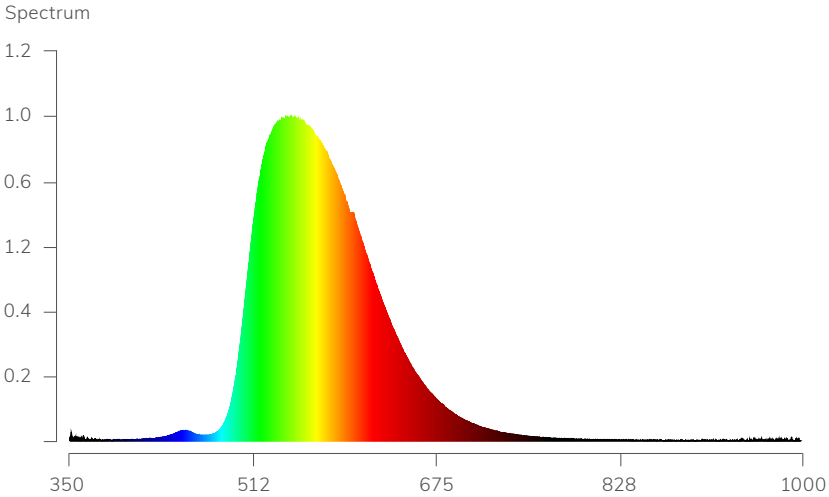


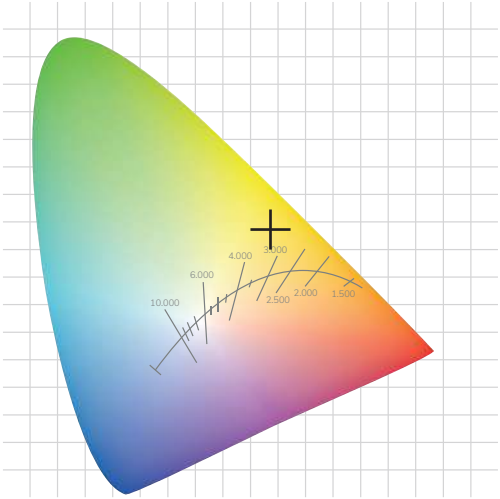


CIE 1931 EVERFINE
x = 0.3986 | y = 0.5077

Color Parameters LIME | RAW

Luminous Flux (Raw)	Power Consumption	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
1105.3 lm	20.05 W	x 0.4186	y 0.5465



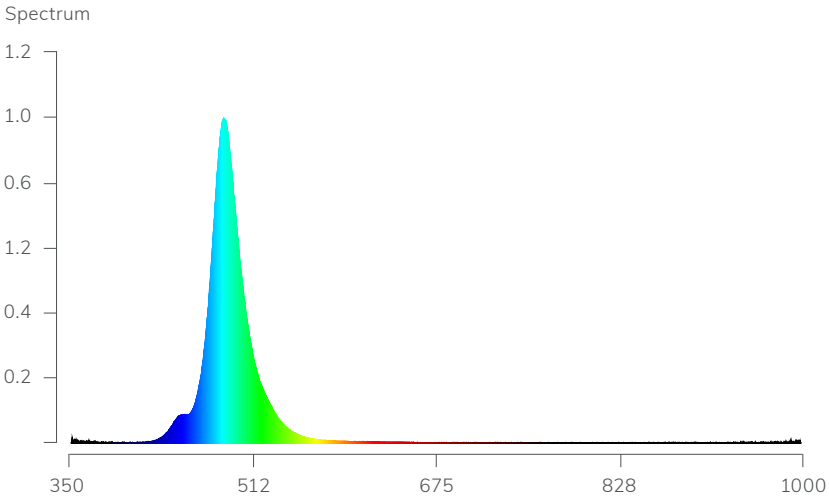


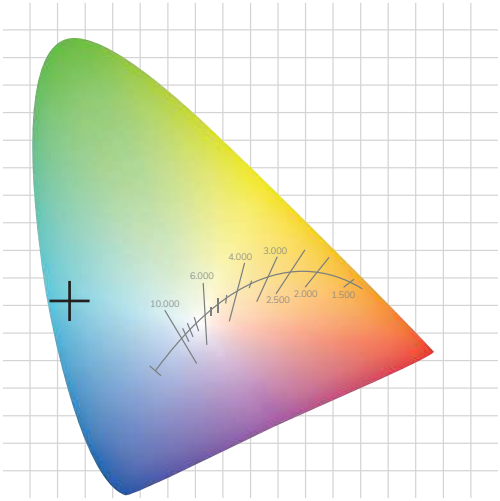
CIE 1931 EVERFINE
x = 0.4186 | y = 0.5465

Spectral Distribution
CYAN

Color Parameters CYAN | CALIBRATED

Luminous Flux (Calibrated)	Power Consumption	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
322.99 lm	16.19 W	x 0.1004	y 0.2856

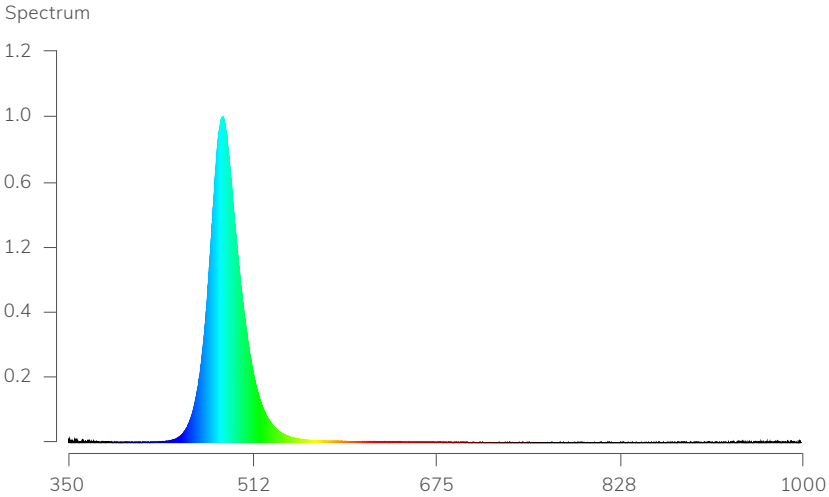


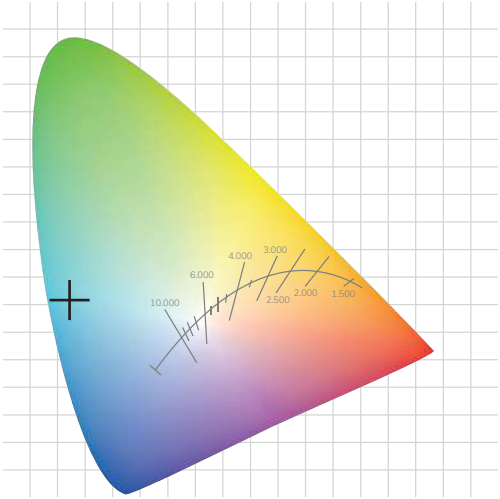


CIE 1931 EVERFINE
x = 0.1004 | y = 0.2856

Color Parameters CYAN | RAW

Luminous Flux (Raw)	Power Consumption	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
271.99 lm	15.38 W	x 0.0879	y 0.2854



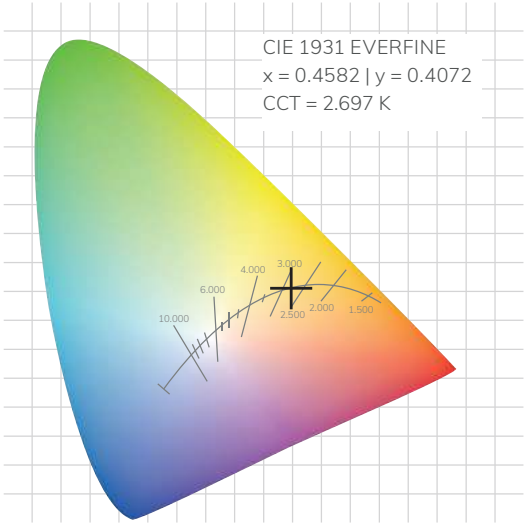


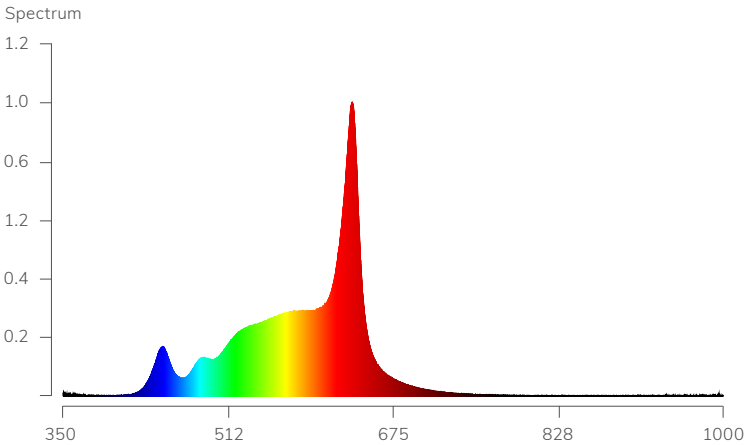
CIE 1931 EVERFINE
x = 0.0879 | y = 0.2854

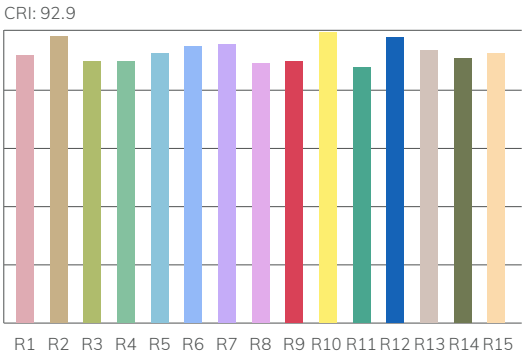
Chromaticity Reports
2.700 Kelvin – Bulb White

Report Summary 2.700 Kelvin – Bulb White/CALIBRATED

Photometrical Parameters	Electrical Parameters
Total Lumens: 1284.2lm	Power Consumption: 28.99 W
Fixture Efficancy: 45,80lm/W	AC Supply: 219,9 V, 50Hz
CCT: 2.697 Kelvin	Current: 0.2235 A
CRI/Ra: 92.9	Power Factor: 0.5896
TLCI: 92.9	
Chromaticity Coordinate CIE 1931: x 0.4582 | y 0.4072	

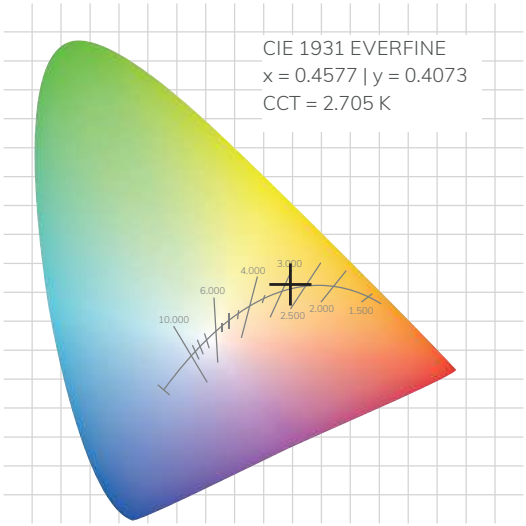


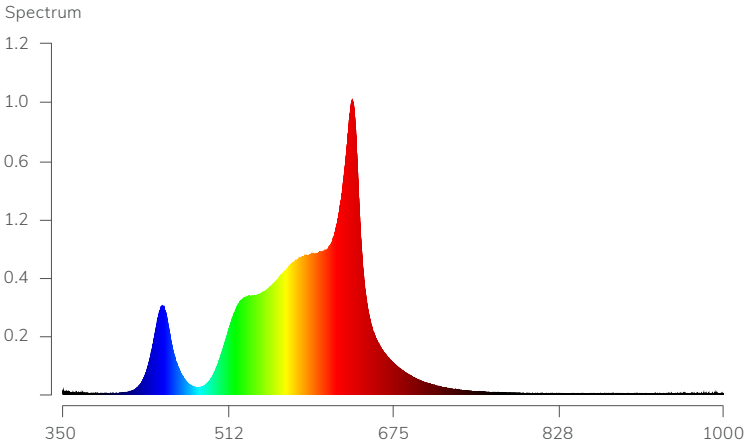


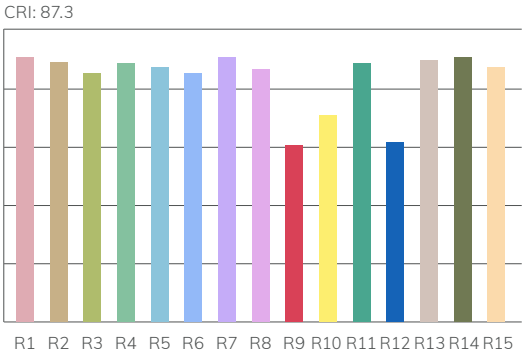


Report Summary 2.700 Kelvin – Bulb White/RAW

Photometrical Parameters	Electrical Parameters
Total Lumens: 2077.2 lm	Power Consumption: 42.54 W
Fixture Efficancy: 48.83lm/W	AC Supply: 219.9 V, 50Hz
CCT: 2.705 Kelvin	Current: 0.2773 A
CRI/Ra: 87.3	Power Factor: 0.6974
TLCI: 57.6	
Chromaticity Coordinate CIE 1931: x 0.4577 | y 0.4073	



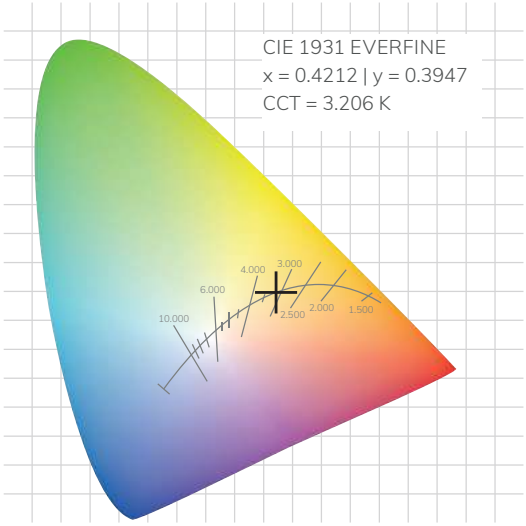




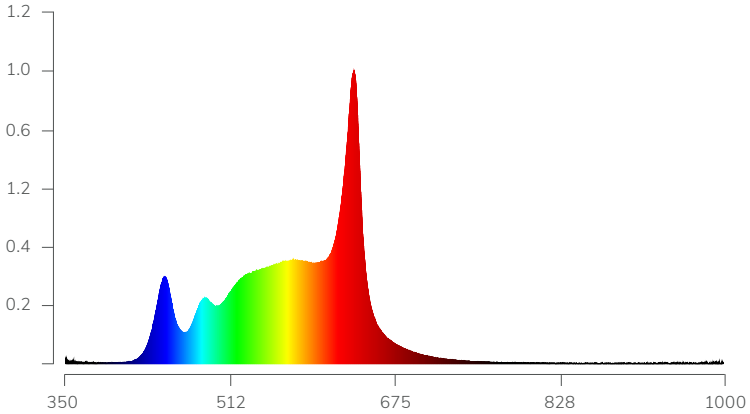
Chromaticity Reports
3.200 Kelvin – Halogen White

Report Summary 3.200 Kelvin – Halogen White/Calibrated

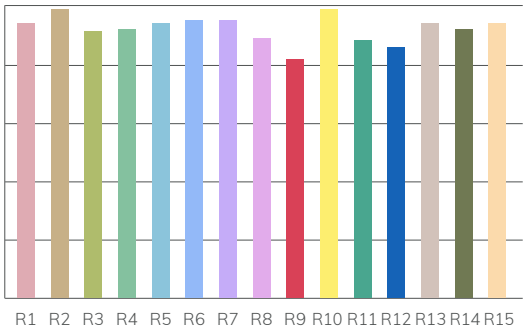
Photometrical Parameters	Electrical Parameters
Total Lumens: 1608.7lm	Power Consumption: 34.02W
Fixture Efficancy: 47.29lm/W	AC Supply: 219.9 V, 50Hz
CCT: 3.206 Kelvin	Current: 0.2442 A
CRI/Ra: 94.8	Power Factor: 0.6334
TLCI: 95,1	
Chromaticity Coordinate CIE 1931: x 0.4212 | y 0.3947	



Spectrum

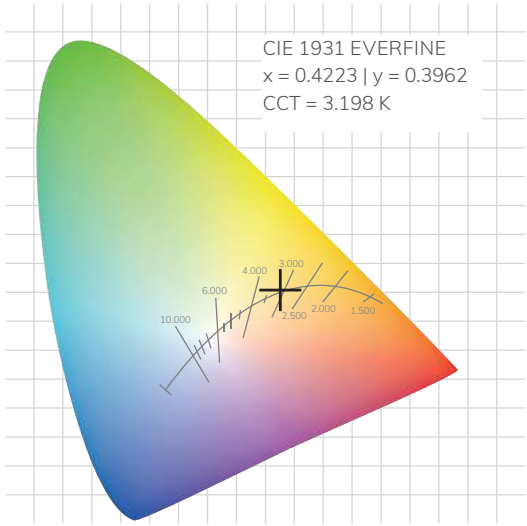


CRI: 94.8

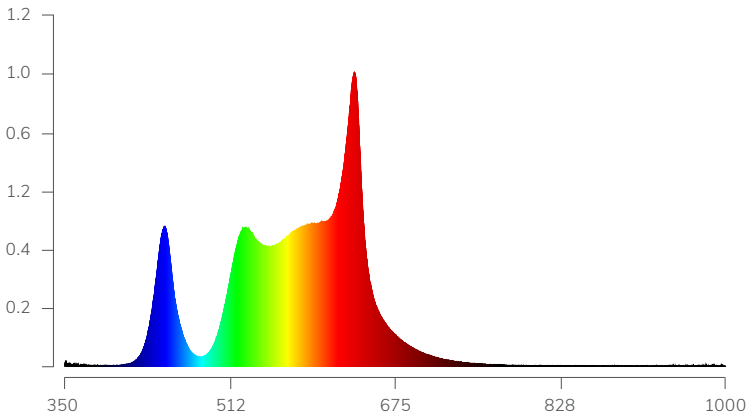


Report Summary 3.200 Kelvin – Halogen White/RAW

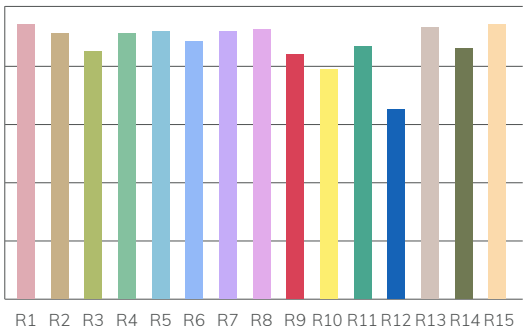
Photometrical Parameters	Electrical Parameters
Total Lumens: 2299.4lm	Power Consumption: 45.69W
Fixture Efficancy: 50.32lm/W	AC Supply: 219,9 V, 50Hz
CCT: 3.198 Kelvin	Current: 0.2890 A
CRI/Ra: 88.7	Power Factor: 0.7188
TLCI: 64.0	
Chromaticity Coordinate CIE 1931: x 0.4223 | y 0.3962	



Spectrum



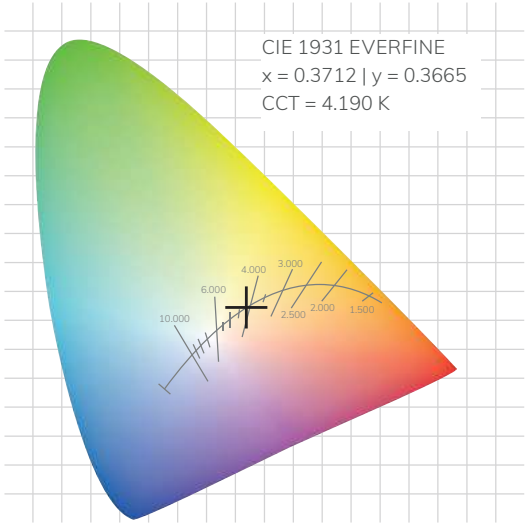
CRI: 88.7



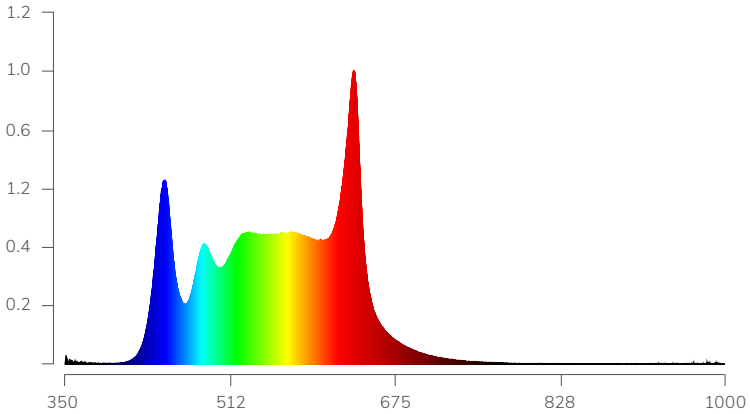
Chromaticity Reports
4.200 Kelvin – Natural White

Report Summary 4.200 Kelvin – Natural White/CALIBRATED

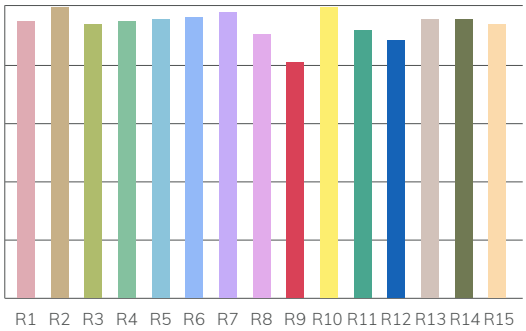
Photometrical Parameters	Electrical Parameters
Total Lumens: 1661.6 lmlm	Power Consumption: 35.09 W
Fixture Efficancy: 47.36lm/W	AC Supply: 219,9 V, 50Hz
CCT: 4.190 Kelvin	Current: 0.2484 A
CRI/Ra: 95.8	Power Factor: 0.6423
TLCI: 92.9	
Chromaticity Coordinate CIE 1931: x 0.3712 | y 0.3665	



Spectrum

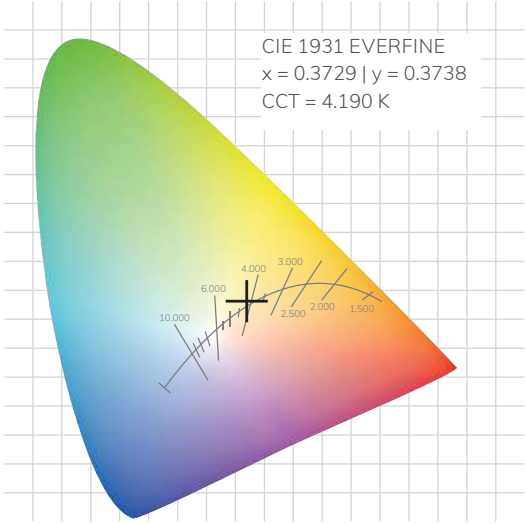


CRI: 94,8

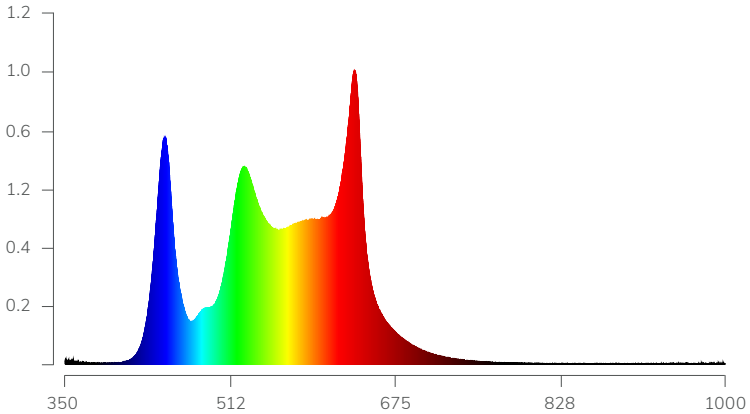


Report Summary 4.200 Kelvin – Natural White/RAW

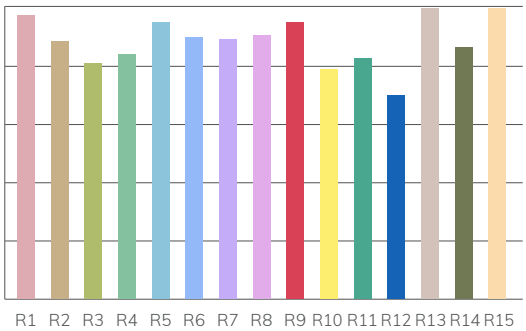
Photometrical Parameters	Electrical Parameters
Total Lumens: 2659.7lm	Power Consumption: 52.93W
Fixture Efficancy: 50.25lm/W	AC Supply: 219,9 V, 50Hz
CCT: 4.190 Kelvin	Current: 0.3162 A
CRI/Ra: 90.6	Power Factor: 0.7611
TLCI: 82.4	
Chromaticity Coordinate CIE 1931: x 0.3729 | y 0.3738	



Spectrum



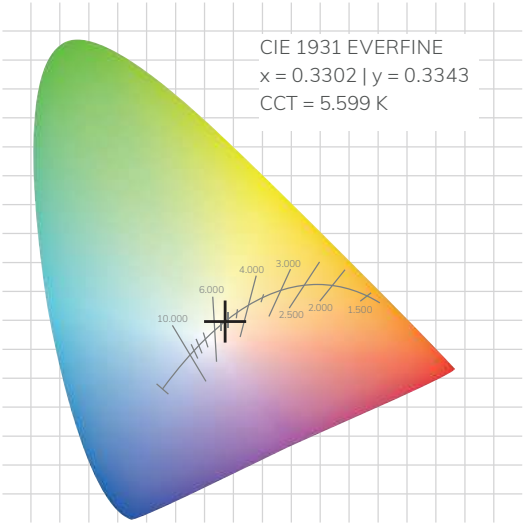
CRI: 90.6



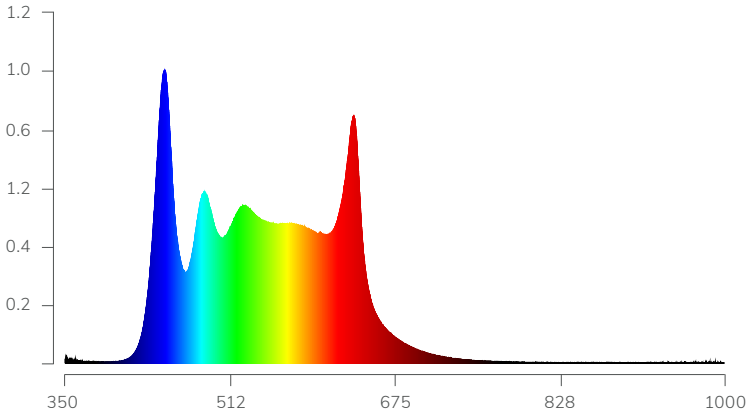
Chromaticity Reports
5.600 Kelvin – Daylight White

Report Summary 5.600 Kelvin – Daylight White/CALIBRATED

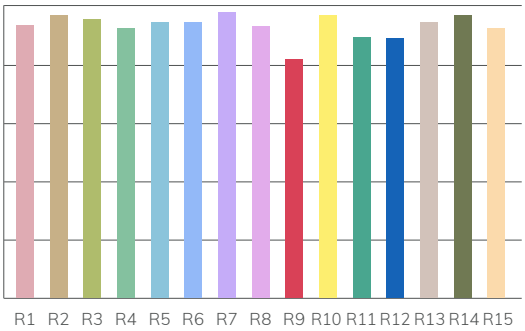
Photometrical Parameters	Electrical Parameters
Total Lumens: 1778.1lm	Power Consumption: 38.06 W
Fixture Efficancy: 46.72lm/W	AC Supply: 219,9 V, 50Hz
CCT: 5.599 Kelvin	Current: 0.2601 A
CRI/Ra: 95.3	Power Factor: 0.6655
TLCI: 95.3	
Chromaticity Coordinate CIE 1931: x 0.3302 | y 0.3343	



Spectrum

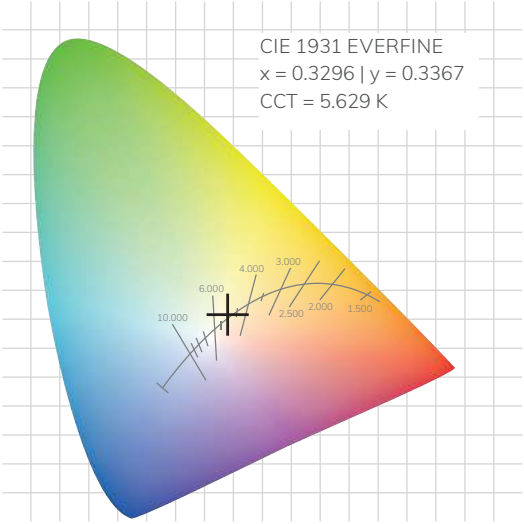


CRI: 95.3

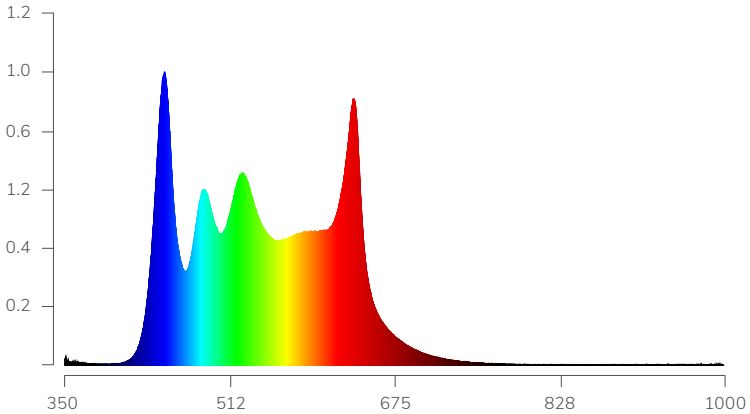


Report Summary 5.600 Kelvin – Daylight White/RAW

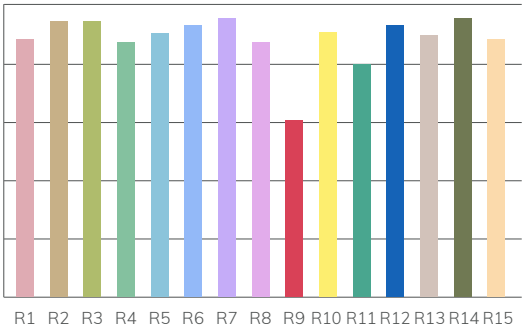
Photometrical Parameters	Electrical Parameters
Total Lumens: 2.856.8lm	Power Consumption: 60.55 W
Fixture Efficancy: 47.18lm/W	AC Supply: 219,9 V, 50Hz
CCT: 5.629 Kelvin	Current: 0.3459 A
CRI/Ra: 90.3	Power Factor: 0.7959
TLCI: 94.5	
Chromaticity Coordinate CIE 1931: x 0.3296 | y 0.3367	



Spectrum



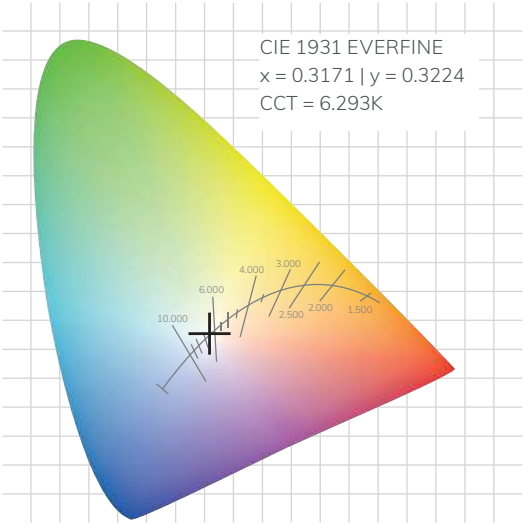
CRI: 90.3



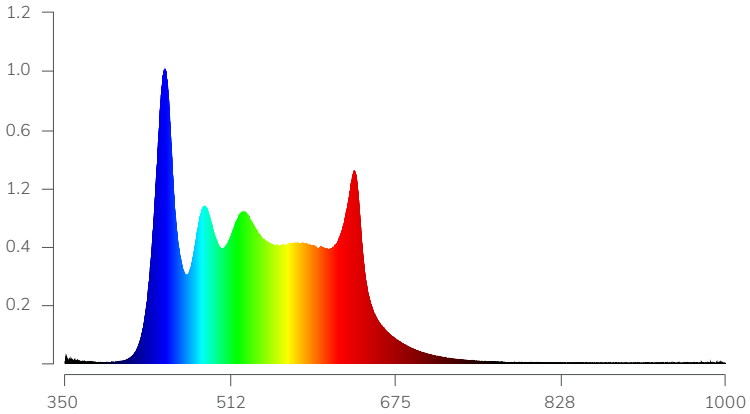
Chromaticity Reports
6.300 Kelvin – Cold White

Report Summary 6.300 Kelvin – Cold White/CALIBRATED

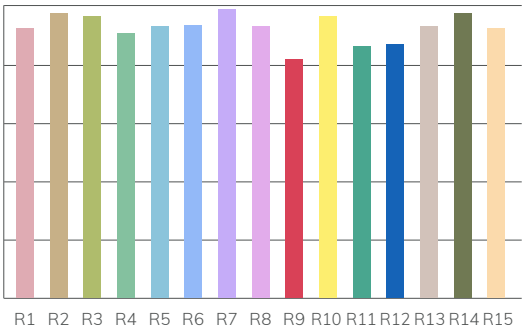
Photometrical Parameters	Electrical Parameters
Total Lumens: 2.113.9lm	Power Consumption: 45.26 W
Fixture Efficancy: 46.71lm/W	AC Supply: 219,9 V, 50Hz
CCT: 6.293 Kelvin	Current: 0.2874 A
CRI/Ra: 94.8	Power Factor: 0.7160
TLCI: 96,0	
Chromaticity Coordinate CIE 1931: x 0.3171 | y 0.3224	



Spectrum

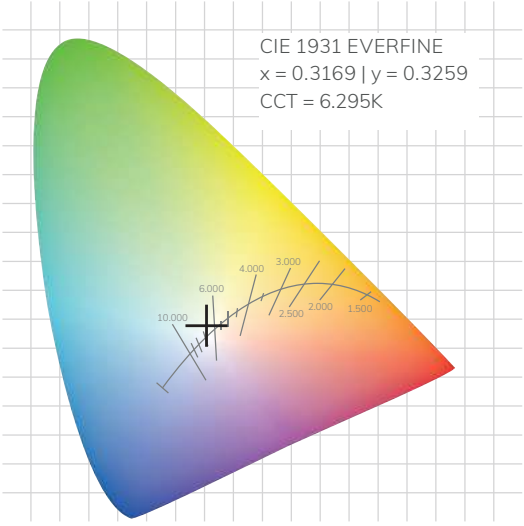


CRI: 94.8 (R1 - R8)

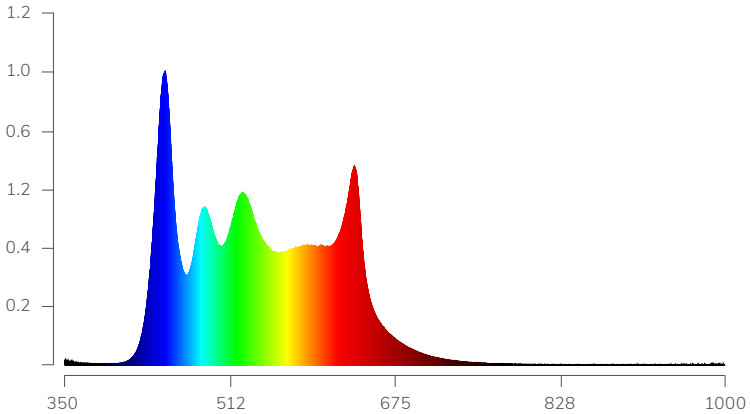


Report Summary 6.300 Kelvin – Cold White/RAW

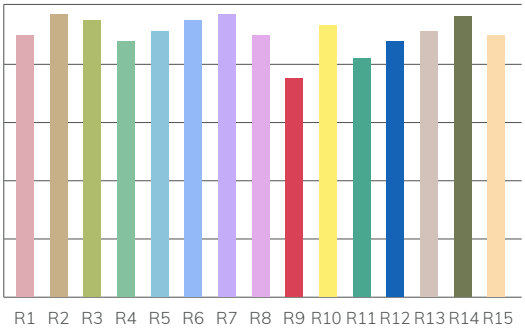
Photometrical Parameters	Electrical Parameters
Total Lumens: 2.831,8lm	Power Consumption: 60.01W
Fixture Efficancy: 47.19lm/W	AC Supply: 219,9 V, 50Hz
CCT: 6.295Kelvin	Current: 0.3438 A
CRI/Ra: 93.1	Power Factor: 0.7937
TLCI: 95.9	
Chromaticity Coordinate CIE 1931: x 0.3169 | y 0,3237	



Spectrum



CRI: 93.1(R1 - R8)



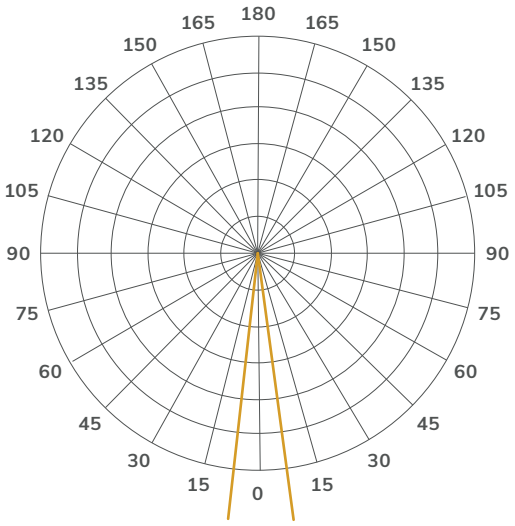
Photometric Report
VERY NARROW LENS

Report Summary

Photometrical Parameters	Optical Parameters	Electrical Parameters
Total Lumens: 2.859.6lm	Beam Angle (50%): 14,0°	Power Consumption: 63.33W
Illuminance @ 5m: 1.020lx	Field Angle (10%): 19,0°	AC Supply: 219,8 V, 50Hz
Fixture Efficancy: 45.29 lm/W		Current: 0.3567 A
		Power Factor: 0.8076

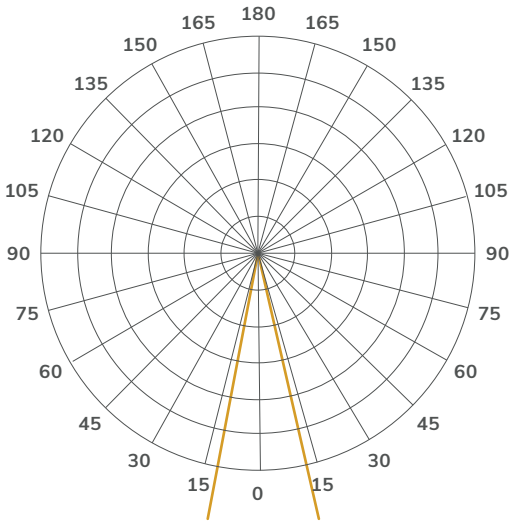
Beam Details

Angular Beam Distribution
BEAM ANGLE

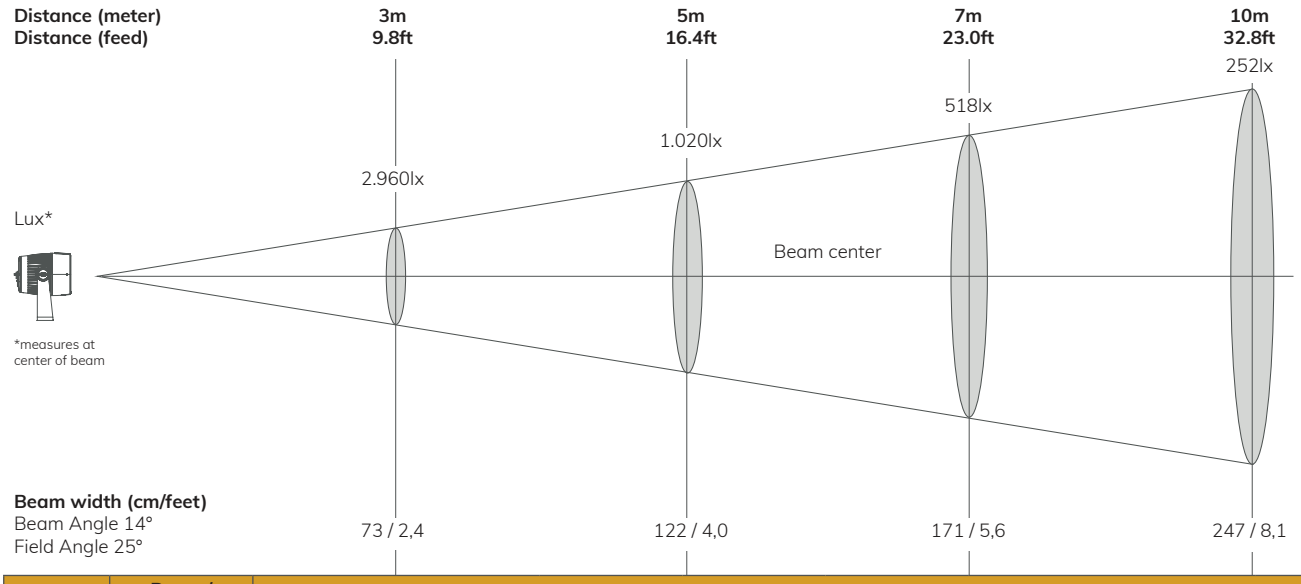


14,0°

Angular Beam Distribution
FIELD ANGLE



25,0°



Lens	Beam / Field Angle	Distance							
		3m/9.8ft		5m/16.4ft		7m/23ft		10m/32.8ft	
		Illuminance lux	Diameter cm/feet	Illuminance lux	Diameter cm/feet	Illuminance lux	Diameter cm/feet	Illuminance lux	Diameter cm/feet
VN lens	14° / 25°	2960	73 / 2,4	1020	122 / 4,0	518	171 / 5,6	252	247 / 8,1

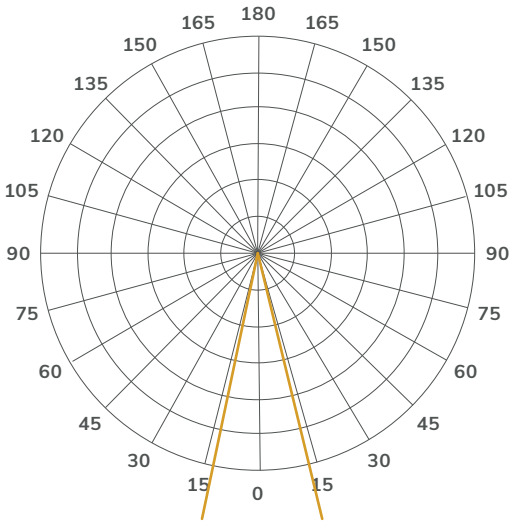
Photometric Report
NARROW LENS

Report Summary

Photometrical Parameters	Optical Parameters	Electrical Parameters
Total Lumens: 2.859.6lm	Beam Angle (50%): 23,0°	Power Consumption: 63.33W
Illuminance @ 5m: 652lx	Field Angle (10%): 43,0°	AC Supply: 219,8 V, 50Hz
Fixture Efficancy: 45.29 lm/W		Current: 0.3567 A
		Power Factor: 0.8076

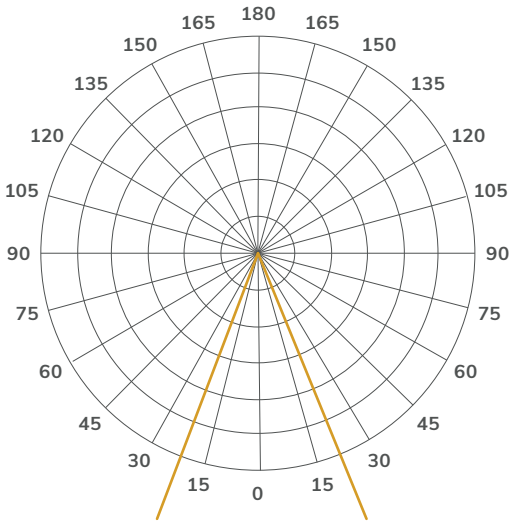
Beam Details

Angular Beam Distribution
BEAM ANGLE

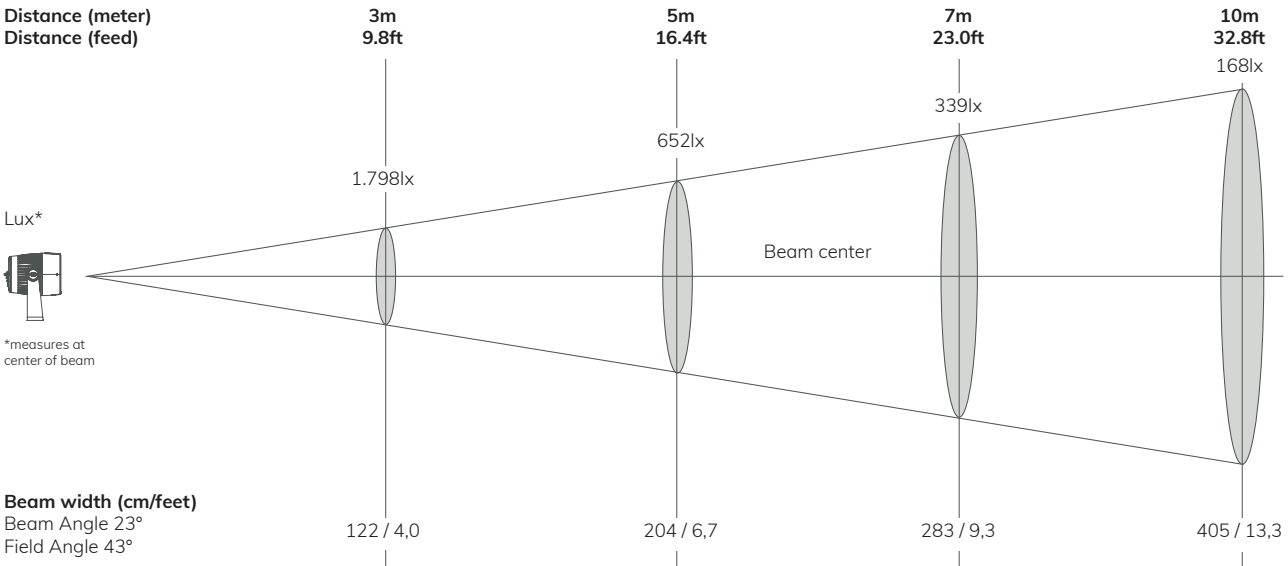


23,0°

Angular Beam Distribution
FIELD ANGLE



43,0°



Lens	Beam / Field Angle	Distance							
		3m/9.8ft		5m/16.4ft		7m/23ft		10m/32.8ft	
		Illuminance lux	Diameter cm/feet	Illuminance lux	Diameter cm/feet	Illuminance lux	Diameter cm/feet	Illuminance lux	Diameter cm/feet
N lens	23° / 43°	1798	122 / 4,0	652	204 / 6,7	339	283 / 9,3	168	405 / 13,3

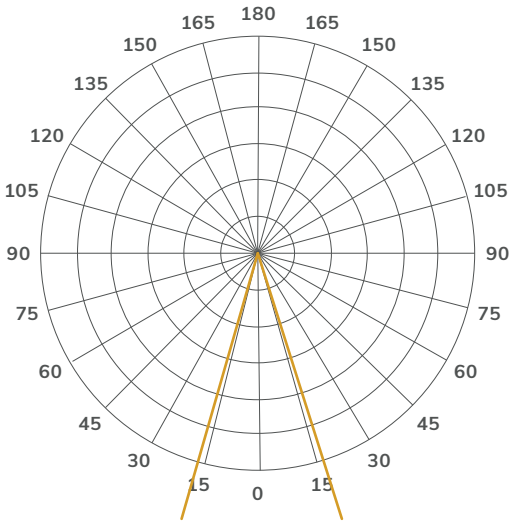
Photometric Report
MEDIUM LENS

Report Summary

Photometrical Parameters	Optical Parameters	Electrical Parameters
Total Lumens: 2.859.6lm	Beam Angle (50%): 35,0°	Power Consumption: 63.33W
Illuminance @ 5m: 217lx	Field Angle (10%): 69,0°	AC Supply: 219,8 V, 50Hz
Fixture Efficancy: 45.29 lm/W		Current: 0.3567 A
		Power Factor: 0.8076

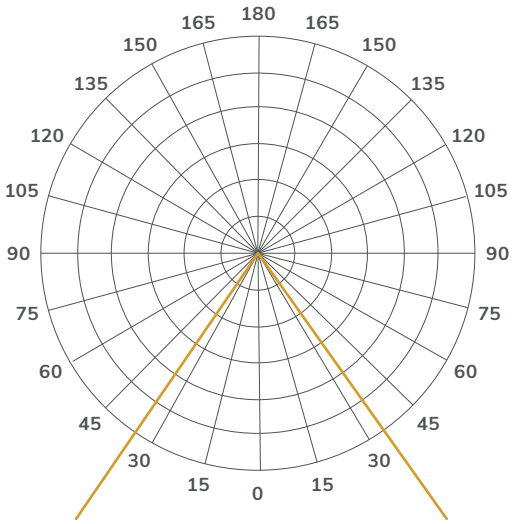
Beam Details

Angular Beam Distribution
BEAM ANGLE

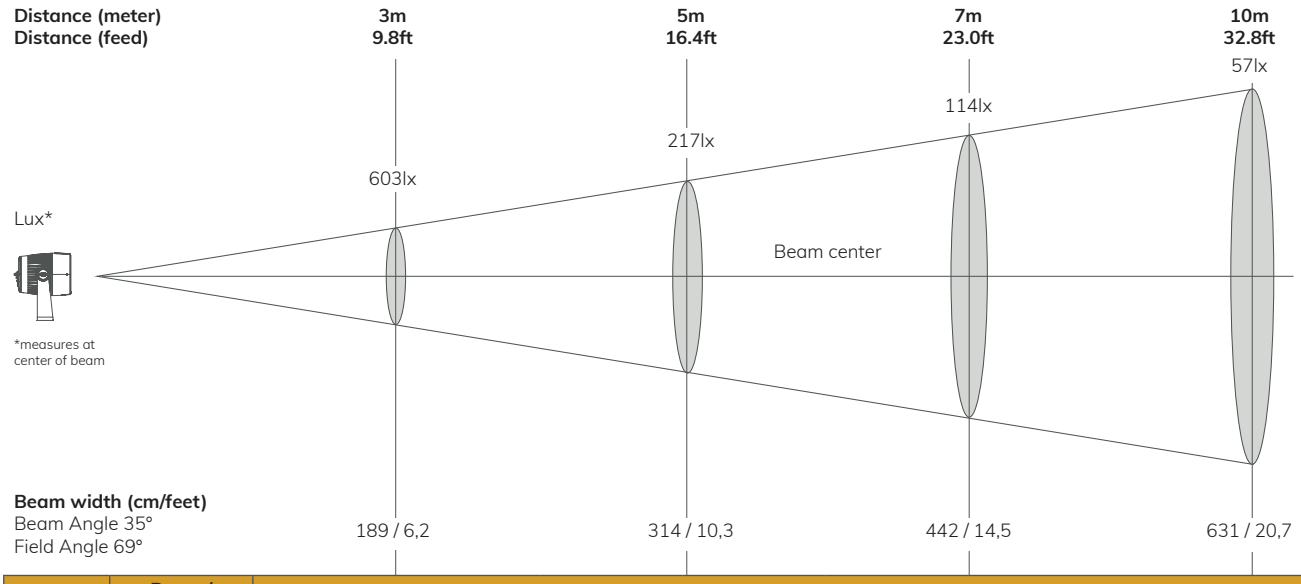


35,0°

Angular Beam Distribution
FIELD ANGLE



69,0°



Lens	Beam / Field Angle	Distance							
		3m/9.8ft		5m/16.4ft		7m/23ft		10m/32.8ft	
		Illuminance lux	Diameter cm/feet	Illuminance lux	Diameter cm/feet	Illuminance lux	Diameter cm/feet	Illuminance lux	Diameter cm/feet
M lens	35° / 69°	603	189 / 6,2	217	314 / 10,3	114	442 / 14,5	57	631 / 20,7

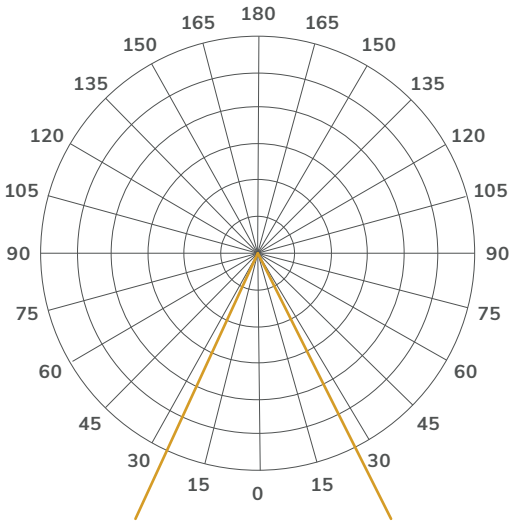
Photometric Report
WIDE LENS

Report Summary

Photometrical Parameters	Optical Parameters	Electrical Parameters
Total Lumens: 2.859.6lm	Beam Angle (50%): 52,0°	Power Consumption: 63.33W
Illuminance @ 5m: 217lx	Field Angle (10%): 86,0°	AC Supply: 219,8 V, 50Hz
Fixture Efficancy: 45.29 lm/W		Current: 0.3567 A
		Power Factor: 0.8076

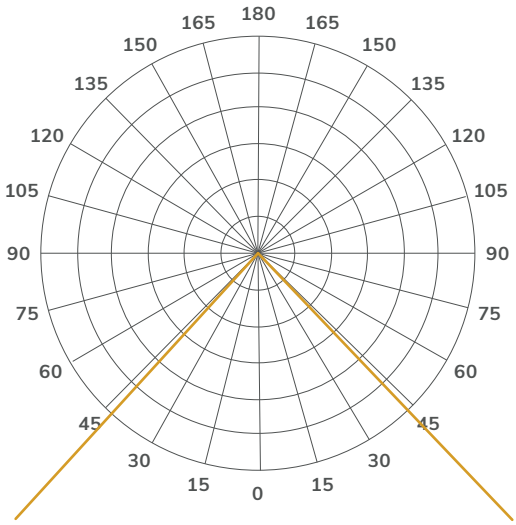
Beam Details

Angular Beam Distribution
BEAM ANGLE

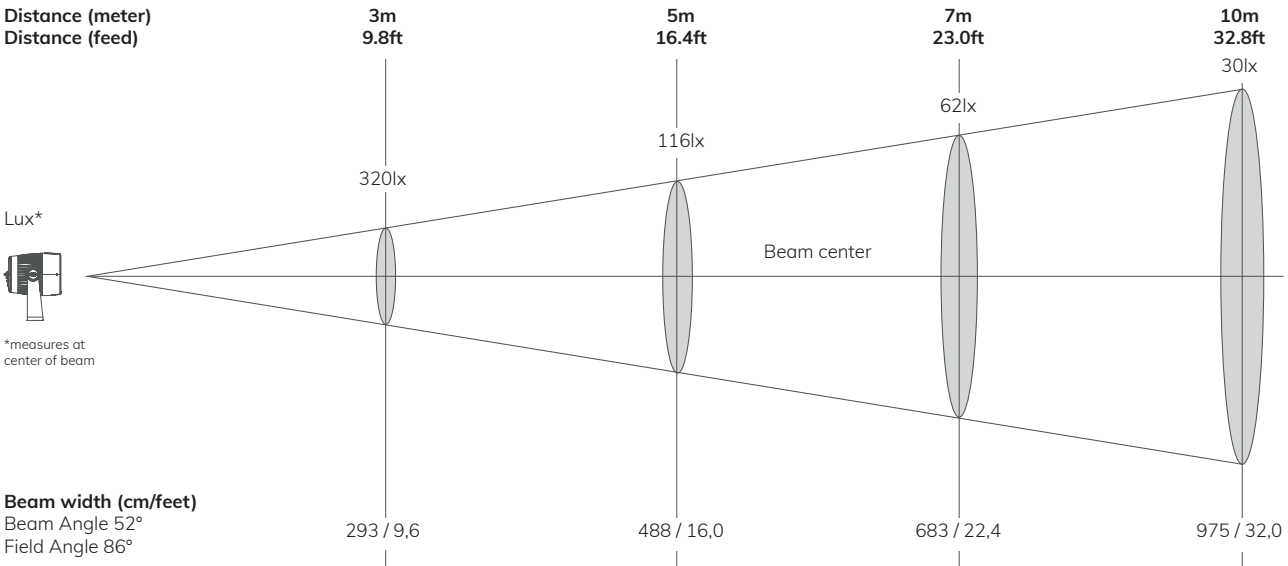


52,0°

Angular Beam Distribution
FIELD ANGLE



86,0°

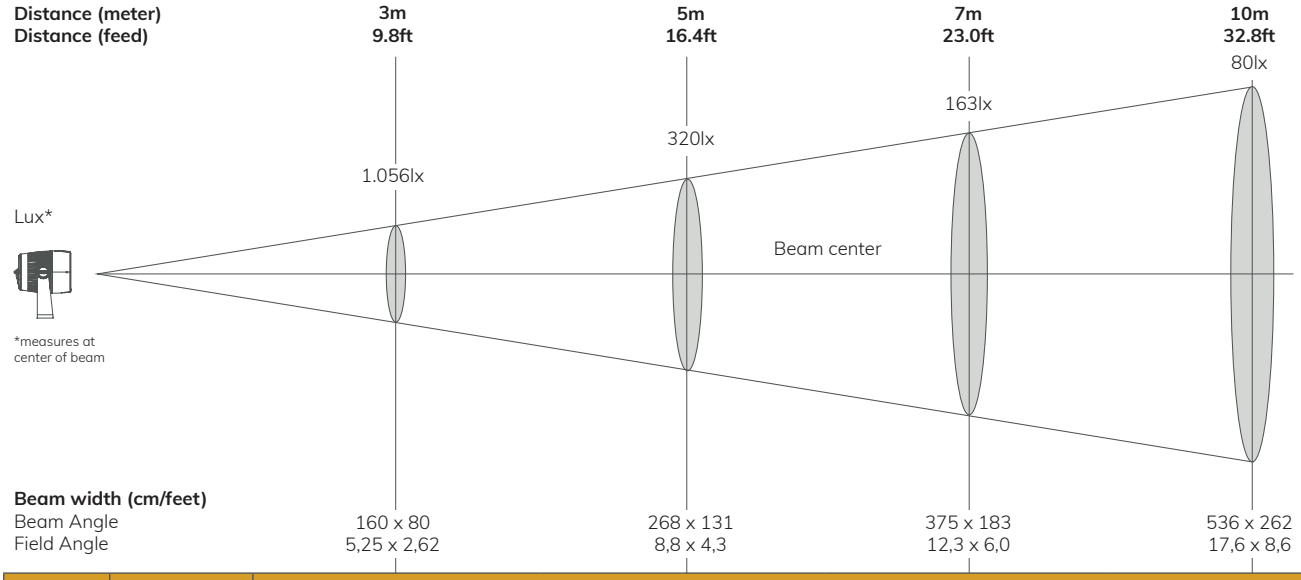


Lens	Beam / Field Angle	Distance							
		3m/9.8ft		5m/16.4ft		7m/23ft		10m/32.8ft	
		Illuminance lux	Diameter cm/feet	Illuminance lux	Diameter cm/feet	Illuminance lux	Diameter cm/feet	Illuminance lux	Diameter cm/feet
W lens	52° / 86°	320	293 / 9,6	116	488 / 16,0	62	683 / 22,4	30	975 / 32,0

Photometric Report
ELLIPTICAL NARROW LENS

Report Summary

Photometrical Parameters	Optical Parameters	Electrical Parameters
Total Lumens: 2.859.6lm	Beam Angle (50%): 30° x 15°	Power Consumption: 63.33W
Illuminance @ 5m: 320lx	Field Angle (10%): 58° x 34°	AC Supply: 219,8 V, 50Hz
Fixture Efficancy: 45.29 lm/W		Current: 0.3567 A
		Power Factor: 0.8076

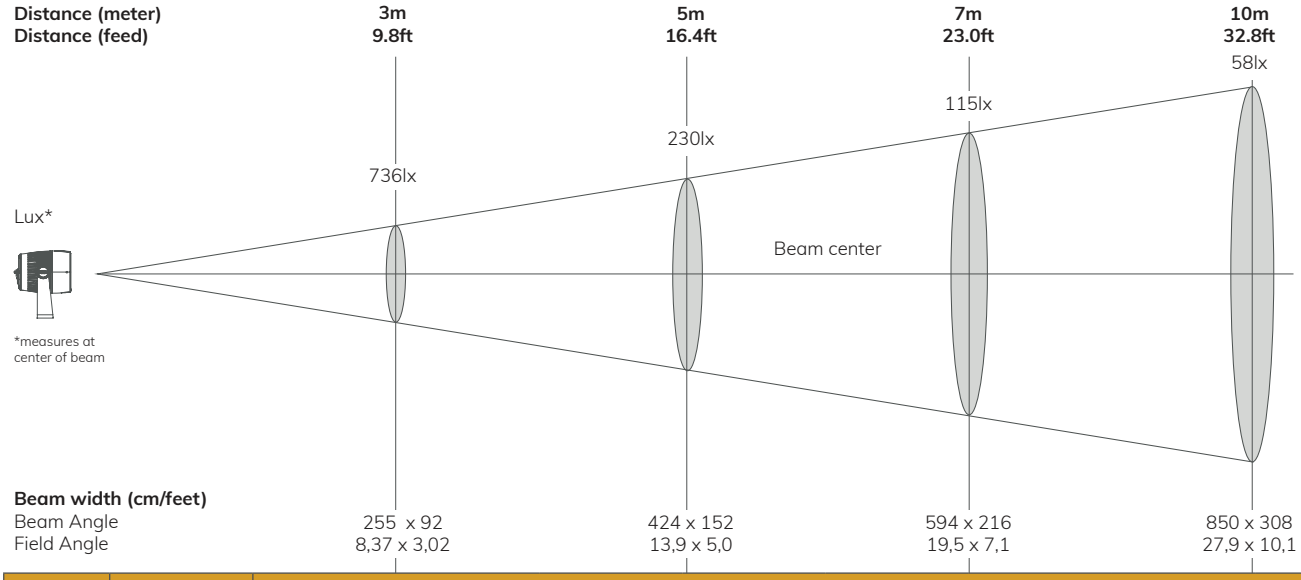


Lens	Beam / Field Angle	Distance							
		3m/9.8ft		5m/16.4ft		7m/23ft		10m/32.8ft	
		Illuminance lux	**Diameter** cm/feet	**Illuminance** lux	**Diameter** cm/feet	**Illuminance** lux	**Diameter** cm/feet	**Illuminance** lux	**Diameter** cm/feet
EN lens (v x h)	30° / 58° x 15° / 34°	1056	160 x 80 / 5,25 x 2,62	320	268 x 131 / 8,8 x 4,3	163	375 x 183 / 12,3 x 6,0	80	536 x 262 / 17,6 x 8,6

Photometric Report
ELLIPTICAL WIDE LENS

Report Summary

Photometrical Parameters	Optical Parameters	Electrical Parameters
Total Lumens: 2.859.6lm	Beam Angle (50%): 46° x 17,5°	Power Consumption: 63.33W
Illuminance @ 5m: 230lx	Field Angle (10%): 73,5° x 40°	AC Supply: 219,8 V, 50Hz
Fixture Efficancy: 45.29 lm/W		Current: 0.3567 A
		Power Factor: 0.8076



Lens	Beam / Field Angle	Distance							
		3m/9.8ft		5m/16.4ft		7m/23ft		10m/32.8ft	
		Illuminance lux	Diameter cm/feet	Illuminance lux	Diameter cm/feet	Illuminance lux	Diameter cm/feet	Illuminance lux	Diameter cm/feet
EW lens (v x h)	46° / 73,5° x 17,5° / 40°	736	255 x 92 / 8,37 x 3,02	230	424 x 152 / 13,9 x 5,0	115	594 x 216 / 19,5 x 7,1	58	850 x 308 / 27,9 x 10,1

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