Photometrics Report

ROXX®

B.SHOW mini FC

PHOTOMETRICS REPORT

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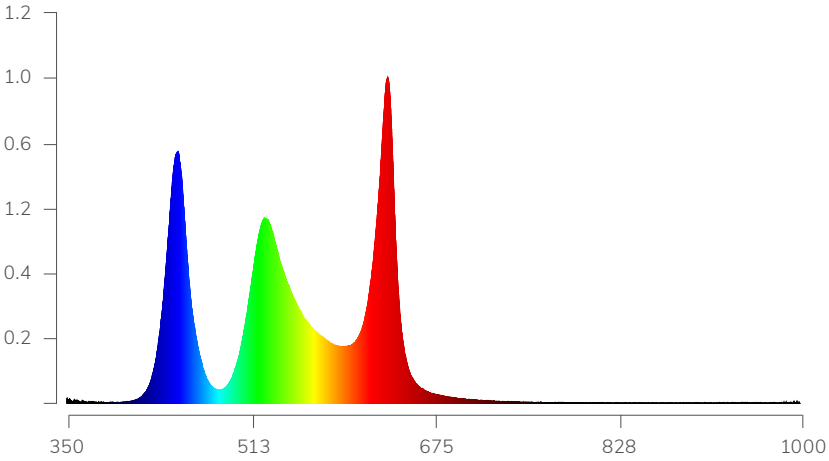
With the SHOW mini series, ROXX® continues to meet the demand for very powerful, weatherproof lighting for the entertainment and architectural sectors and offers a battery version as an important innovation. The fl exibility and variety of options previously offered by its bigger brother E.SHOW in terms 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°.

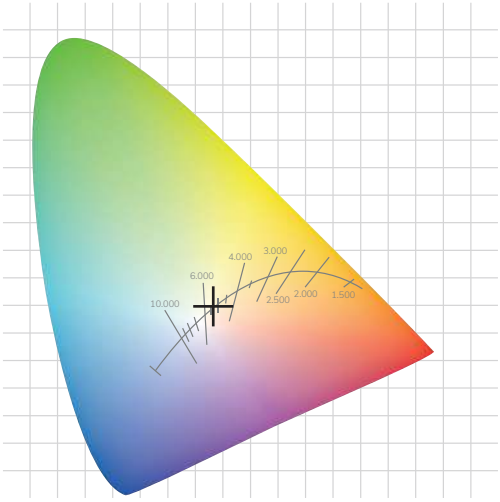
Spectral Distribution
RGBL

Color Parameters RGBL | CALIBRATED

Luminous Flux (Calibrated)	Power Consumption	Color Temperature	Color Rendering Index	Television Lighting Concistency Index	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
2.404.0 lm	49.17 W	5.595 K	70.2	60.3	x 0.3303	y 0.3345

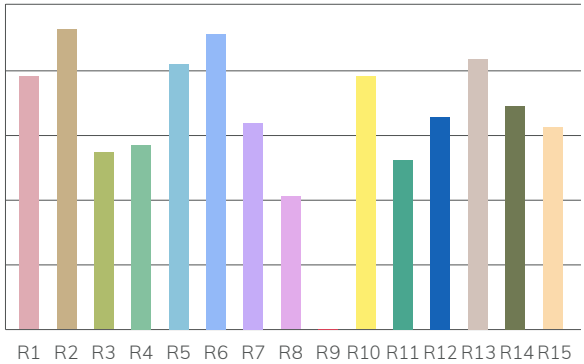
Spectrum





CIE 1931 EVERFINE
x = 0.3303 | y = 0.3345
CCT = 5.595 K

CRI: 70.2

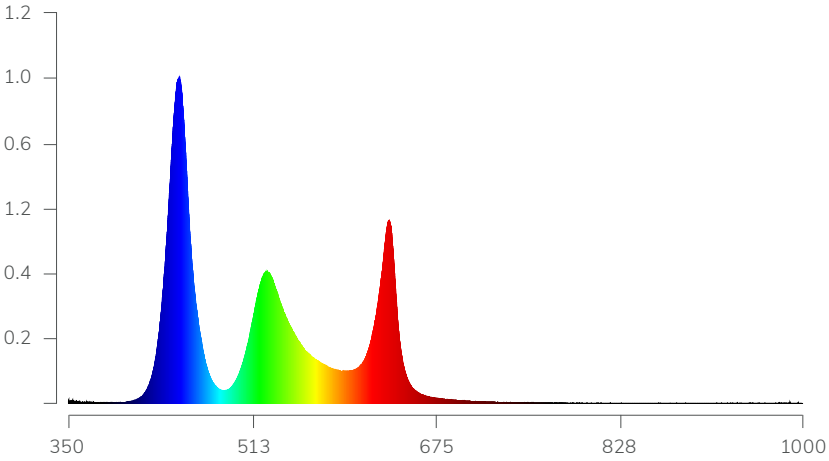


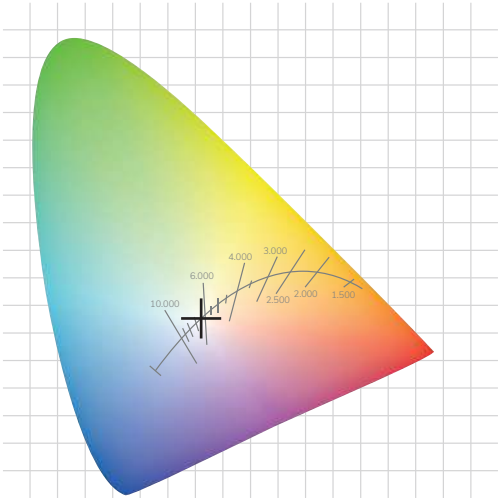
Spectral Distribution
RGBL

Color Parameters RGBL | RAW

Luminous Flux (Raw)	Power Consumption	Color Temperature	Color Rendering Index	Television Lighting Concistency Index	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
2.831.8lm	62.09W	24.996 K	62.2	51.1	x 0.2684	y 0.2489

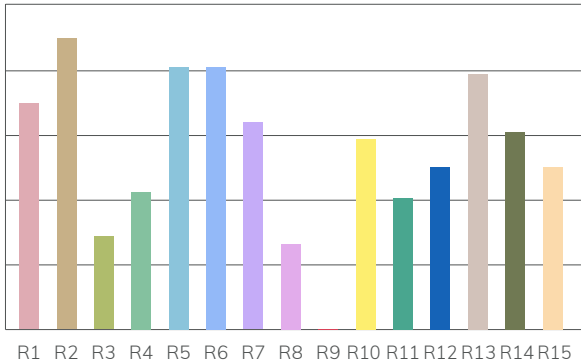
Spectrum





CIE 1931 EVERFINE
x = 0.2684 | y = 0.2489
CCT = 24.996 K

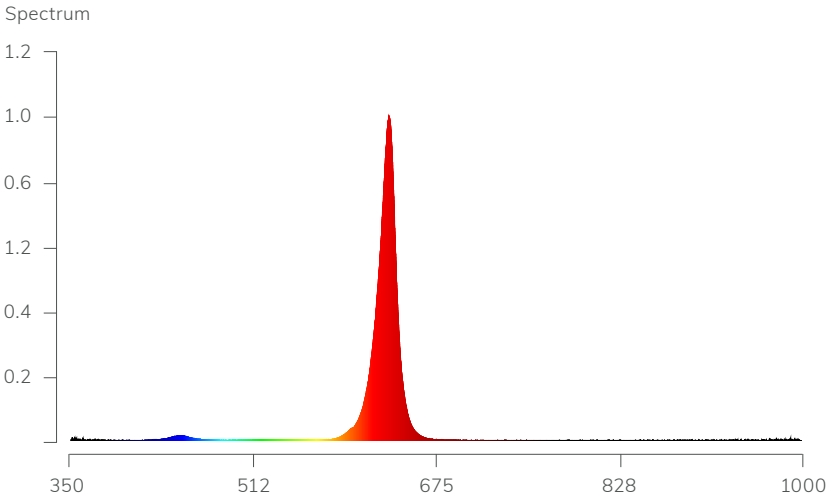
CRI:62.2

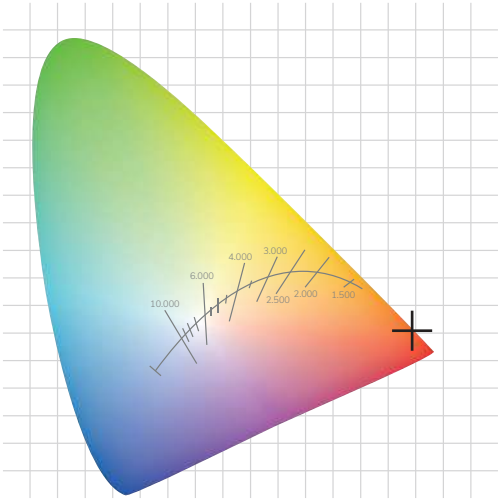


Spectral Distribution
RED

Color Parameters RED | CALIBRATED

Luminous Flux (Calibrated)	Power Consumption	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
395.63 lm	18.77 W	x 0.6735	y 0.2945

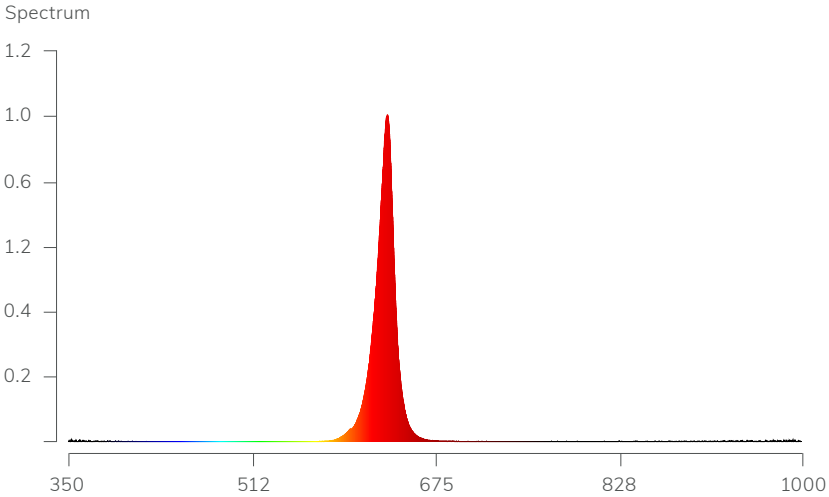


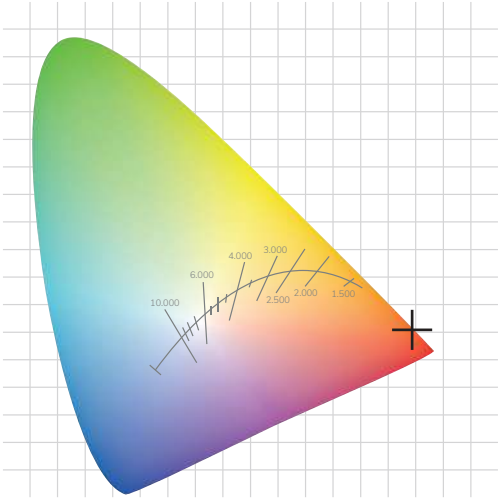


CIE 1931 EVERFINE
x = 0.6735 | y = 0.2945

Color Parameters RED | RAW

Luminous Flux (Raw)	Power Consumption	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
394.98 lm	18.54 W	x 0.6978	y 0.3019



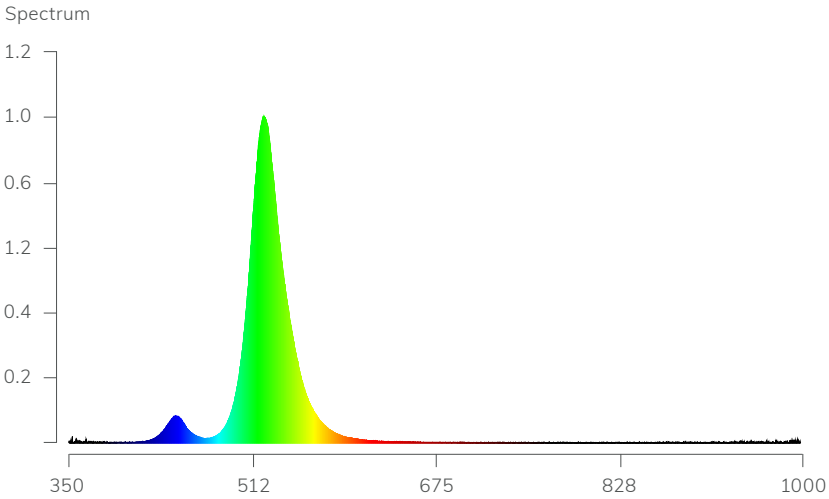


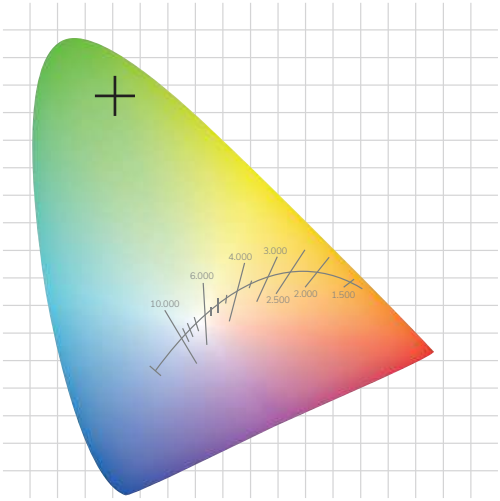
CIE 1931 EVERFINE
x = 0.6978 | y = 0.3019

Spectral Distribution
GREEN

Color Parameters GREEN | CALIBRATED

Luminous Flux (Calibrated)	Power Consumption	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
1174.0lm	21.48	x 0.1975	y 0.6658

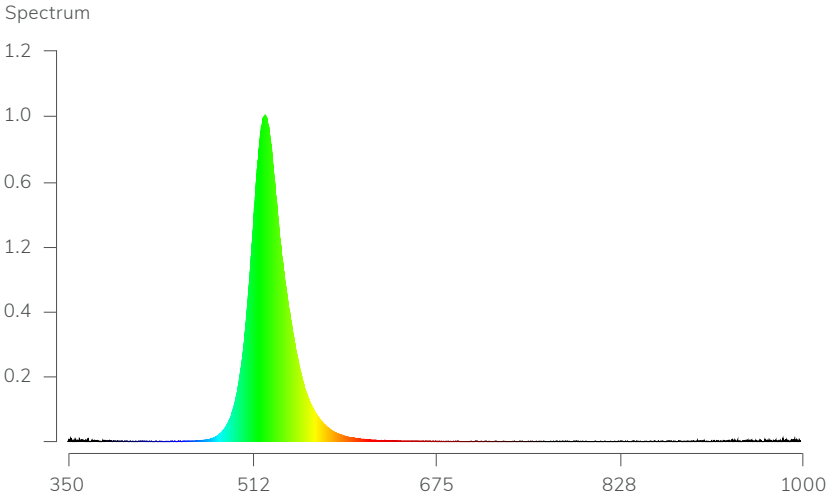


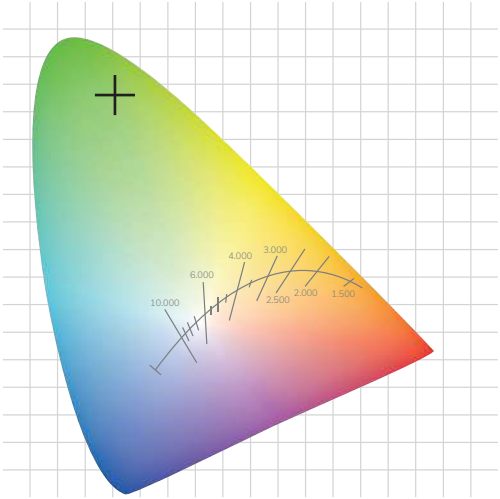


CIE 1931 EVERFINE
x = 0.1975 | y = 0.6658

Color Parameters GREEN | RAW

Luminous Flux (Raw)	Power Consumption	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
1.158.1 lm	20.98 W W	x 0.1977	y 0.7326



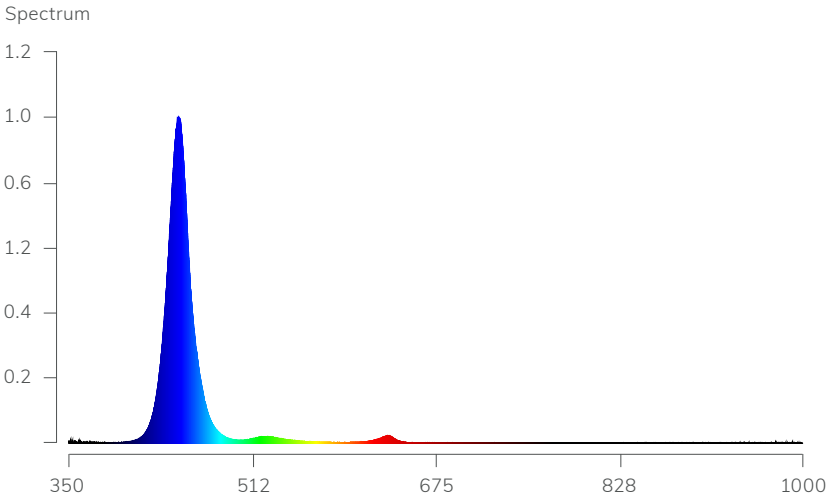


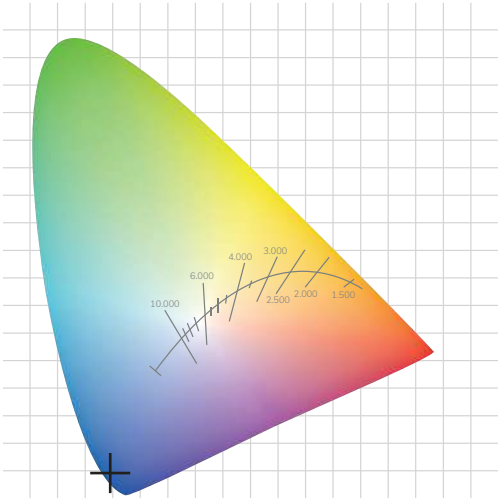
CIE 1931 EVERFINE
x = 0.1977 | y = 0.7326

Spectral Distribution
BLUE

Color Parameters BLUE | CALIBRATED

Luminous Flux (Calibrated)	Power Consumption	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
245.87 lm	23.06 W	x 0.1618	y 0.0365

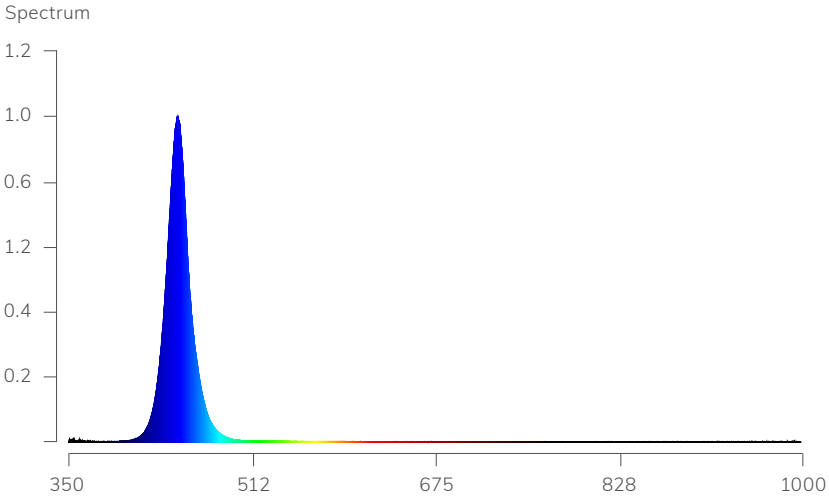


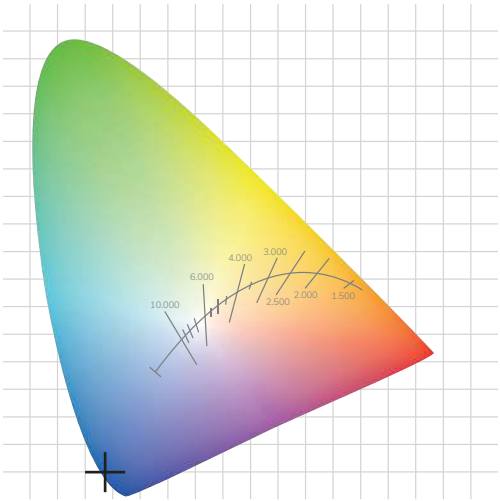


CIE 1931 EVERFINE
x = 0.1618 | y = 0.0365

Color Parameters BLUE | RAW

Luminous Flux (Raw)	Power Consumption	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
161.84 lm	21.83 W	x 0.1572	y 0.0246



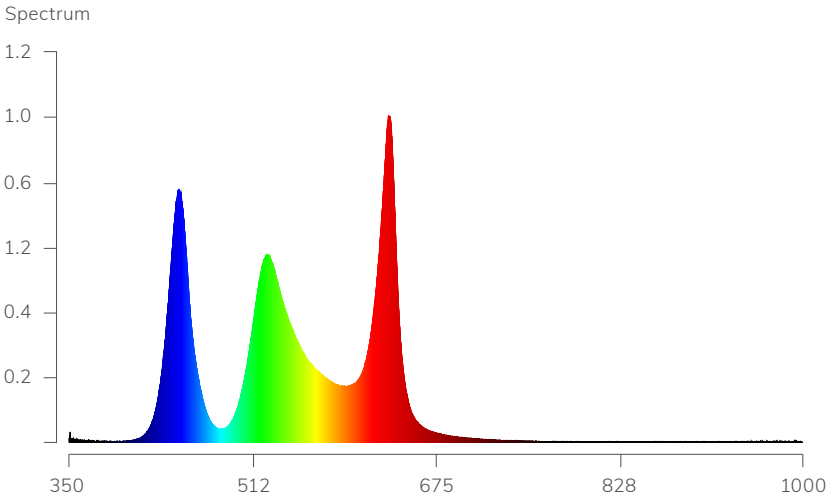


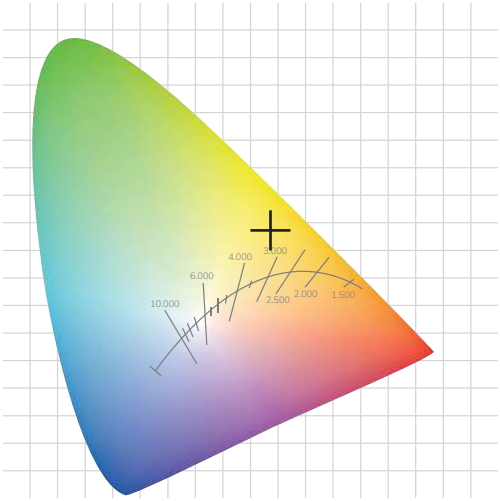
CIE 1931 EVERFINE
x = 0.1572 | y = 0.0246

Spectral Distribution
LIME

Color Parameters LIME | CALIBRATED

Luminous Flux (Calibrated)	Power Consumption	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
2.449.2 lm	49.72 W	x 0.3298	y 0.3347

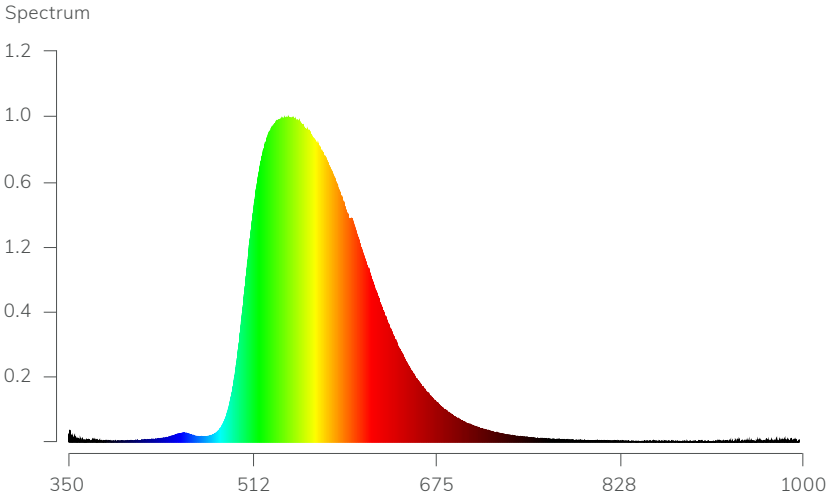


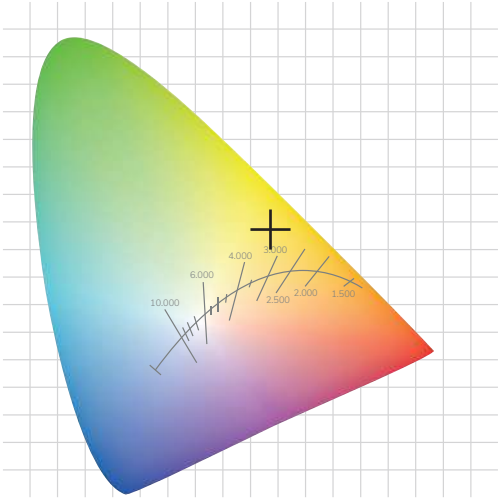


CIE 1931 EVERFINE
x = 0.3298 | y = 0.3347

Color Parameters LIME | RAW

Luminous Flux (Raw)	Power Consumption	Chromaticity Coordinate CIE 1931	Chromaticity Coordinate CIE 1931
1.169.9 lm	21.59W	x 0.4198	y 0.4928



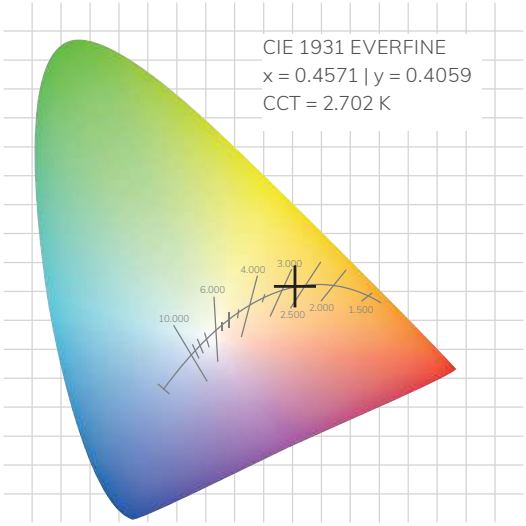


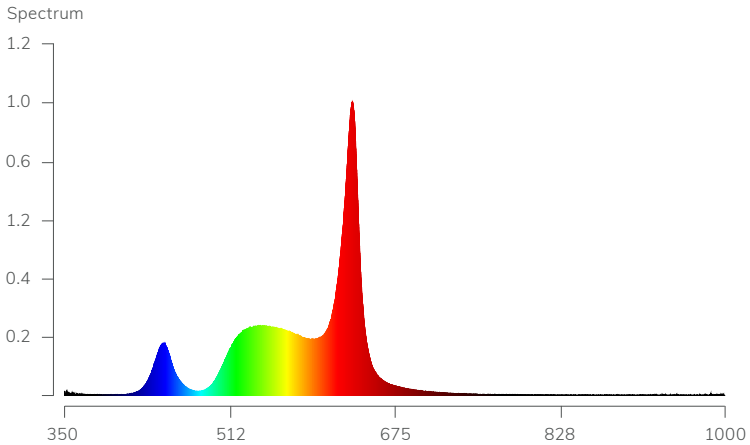
CIE 1931 EVERFINE
x = 0.4198 | y = 0.4928

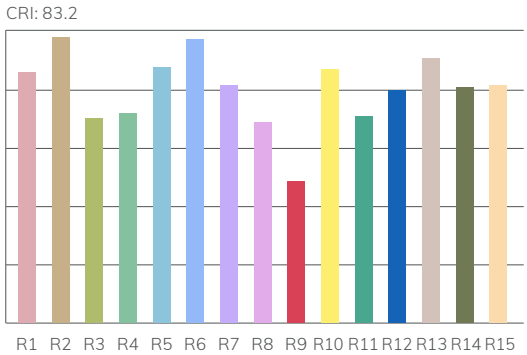
Chromaticity Reports
2.700 Kelvin – Bulb White

Report Summary 2.700 Kelvin – Bulb White/CALIBRATED

Photometrical Parameters	Electrical Parameters
Total Lumens: 1.494.2lm	Power Consumption: 32.62 W
Fixture Efficancy: 45,80lm/W	AC Supply: 219,9 V, 50Hz
CCT: 2.702 Kelvin	Current: 0.2569 A
CRI/Ra: 83.2	Power Factor: 0.5774
TLCI: 61.4	
Chromaticity Coordinate CIE 1931: x 0.4571 | y 0.4059	

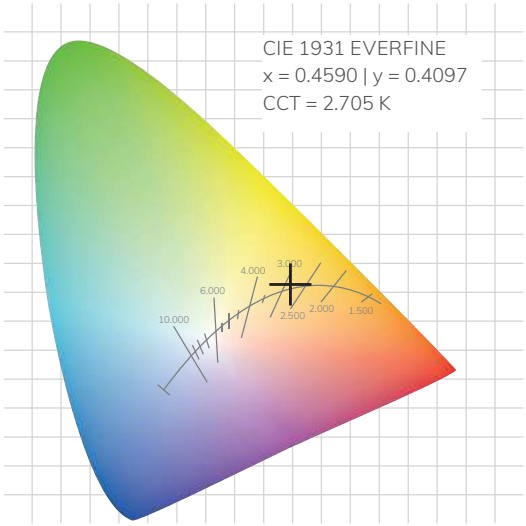


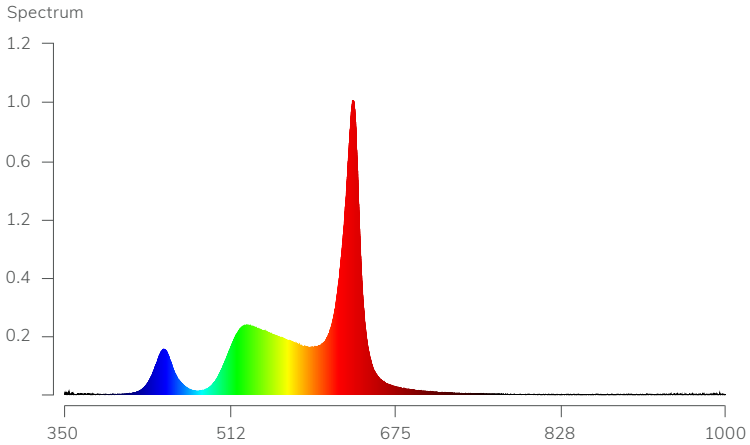


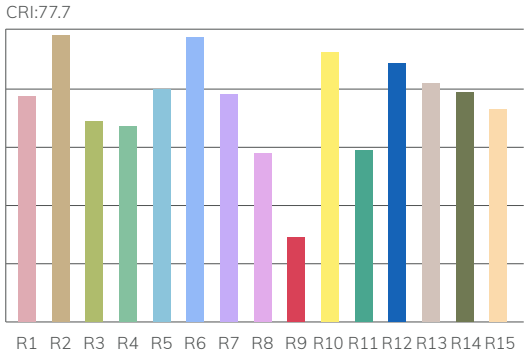


Report Summary 2.700 Kelvin – Bulb White/RAW

Photometrical Parameters	Electrical Parameters
Total Lumens: 1688.8 lm	Power Consumption: 35.74 W
Fixture Efficancy: 47.26lm/W	AC Supply: 219.9 V, 50Hz
CCT: 2.705 Kelvin	Current: 0.2688 A
CRI/Ra: 77.7	Power Factor: 0.6045
TLCI: 59.0	
Chromaticity Coordinate CIE 1931: x 0.4590 | y 0.4097	



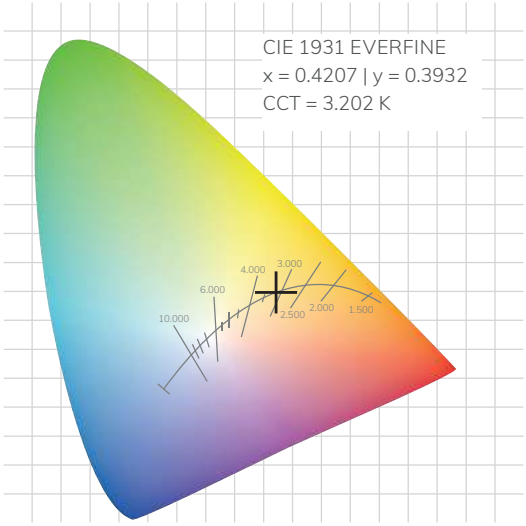




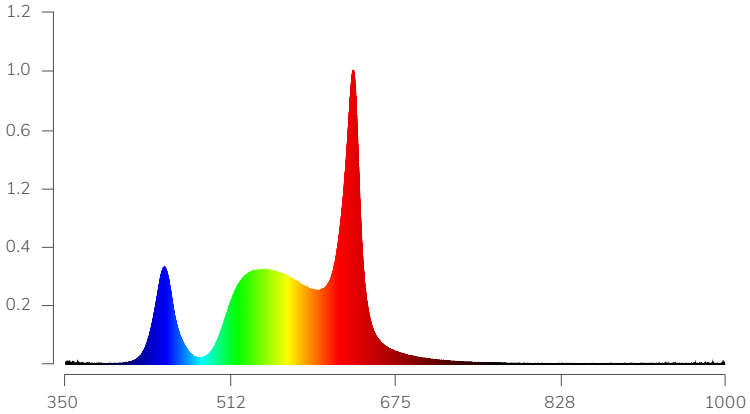
Chromaticity Reports
3.200 Kelvin – Halogen White

Report Summary 3.200 Kelvin – Halogen White/Calibrated

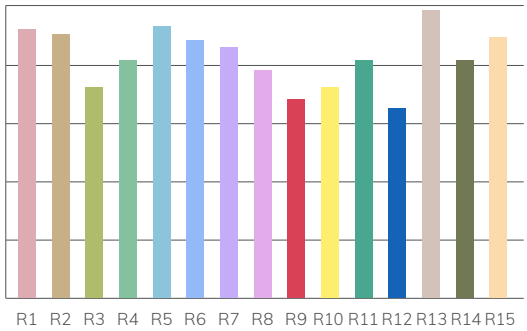
Photometrical Parameters	Electrical Parameters
Total Lumens: 1.411.5lm	Power Consumption: 29.86W
Fixture Efficancy: 47.28lm/W	AC Supply: 219.9 V, 50Hz
CCT: 3.202 Kelvin	Current: 0.2458 A
CRI/Ra: 85.5	Power Factor: 0.5523
TLCI: 66.3	
Chromaticity Coordinate CIE 1931: x 0.4207 | y 0.3932	



Spectrum

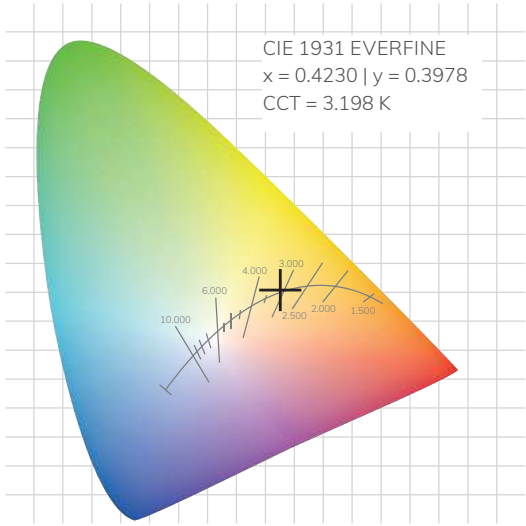


CRI:85.5

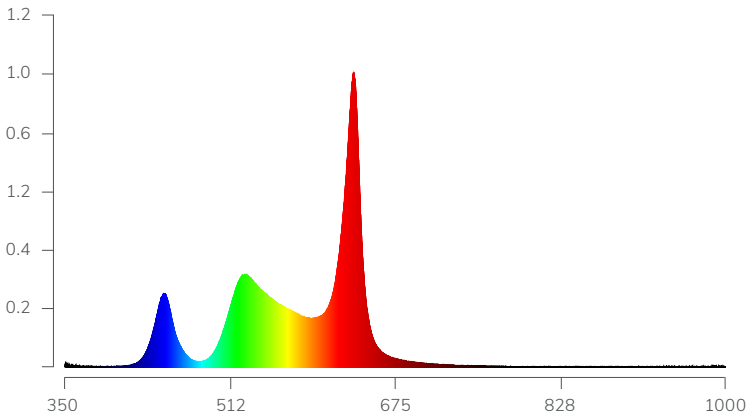


Report Summary 3.200 Kelvin – Halogen White/RAW

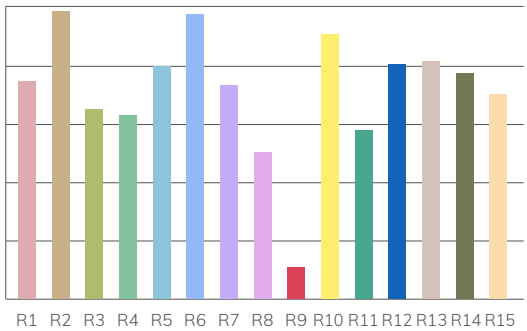
Photometrical Parameters	Electrical Parameters
Total Lumens: 1.842.6lm	Power Consumption: 47.96W
Fixture Efficancy: 47.96lm/W	AC Supply: 219,9 V, 50Hz
CCT: 3.198 Kelvin	Current: 0.2787 A
CRI/Ra: 75.4	Power Factor: 0.6270
TLCI: 61.2	
Chromaticity Coordinate CIE 1931: x 0.4230 | y 0.3978	



Spectrum



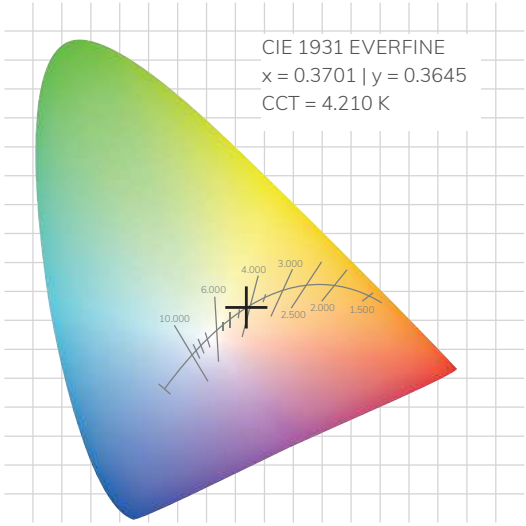
CRI: 75.4



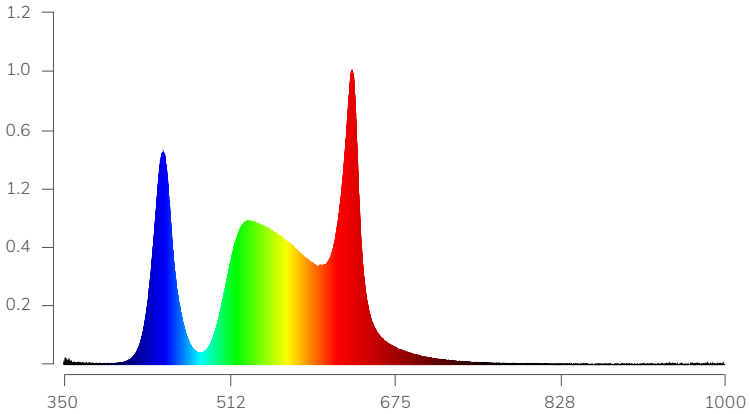
Chromaticity Reports
4.200 Kelvin – Natural White

Report Summary 4.200 Kelvin – Natural White/CALIBRATED

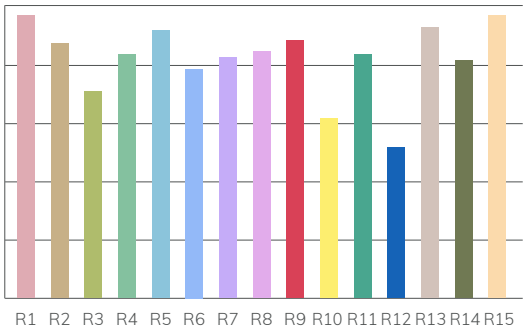
Photometrical Parameters	Electrical Parameters
Total Lumens: 1.411.9lm	Power Consumption: 29.44 W
Fixture Efficancy: 47.95lm/W	AC Supply: 219,9 V, 50Hz
CCT: 4.210 Kelvin	Current: 0.2442 A
CRI/Ra: 84.1	Power Factor: 0.5482
TLCI: 67.6	
Chromaticity Coordinate CIE 1931: x 0.3701 | y 0.3645	



Spectrum

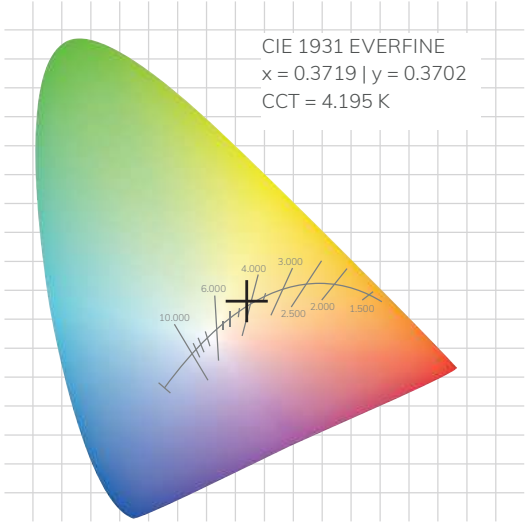


CRI: 84.1

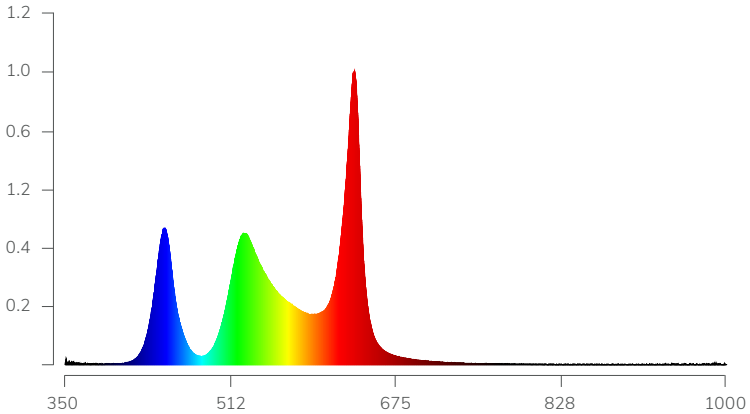


Report Summary 4.200 Kelvin – Natural White/RAW

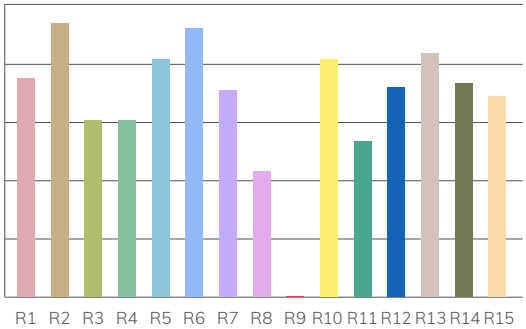
Photometrical Parameters	Electrical Parameters
Total Lumens: 2.128.0lm	Power Consumption: 43.52W
Fixture Efficancy: 48.89lm/W	AC Supply: 219,9 V, 50Hz
CCT: 4.195 Kelvin	Current: 0.2980 A
CRI/Ra: 72.8	Power Factor: 0.6641
TLCI: 61.3	
Chromaticity Coordinate CIE 1931: x 0.3719 | y 0.3702	



Spectrum



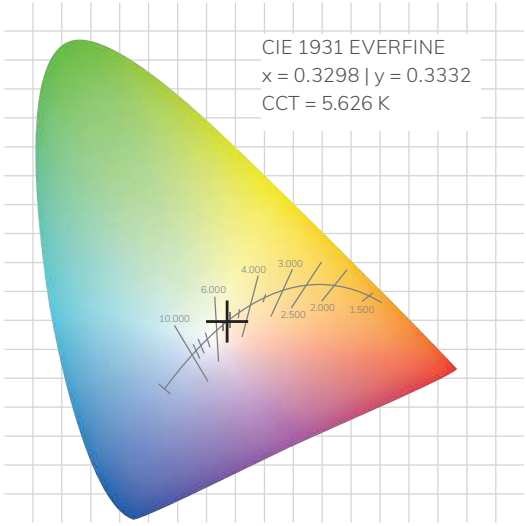
CRI: 72.8



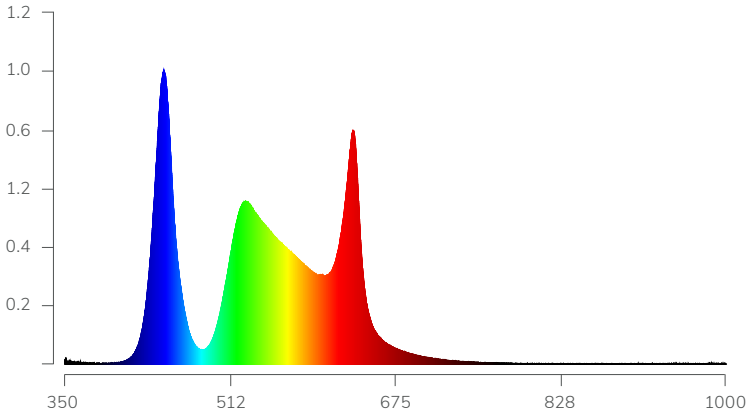
Chromaticity Reports
5.600 Kelvin – Daylight White

Report Summary 5.600 Kelvin – Daylight White/CALIBRATED

Photometrical Parameters	Electrical Parameters
Total Lumens:1.530.1lm	Power Consumption: 31.72 W
Fixture Efficancy: 48.23lm/W	AC Supply: 219,9 V, 50Hz
CCT: 5.626 Kelvin	Current: 0.2533 A
CRI/Ra: 81.6	Power Factor: 0.5696
TLCI: 70.6	
Chromaticity Coordinate CIE 1931: x 0.3298 | y 0.3332	



Spectrum



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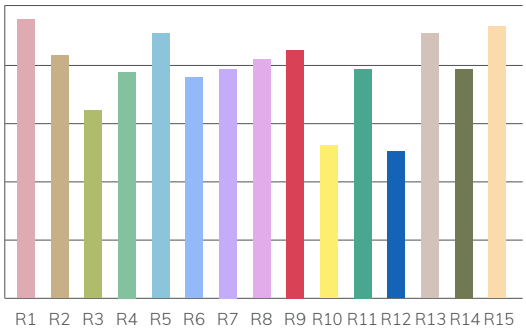
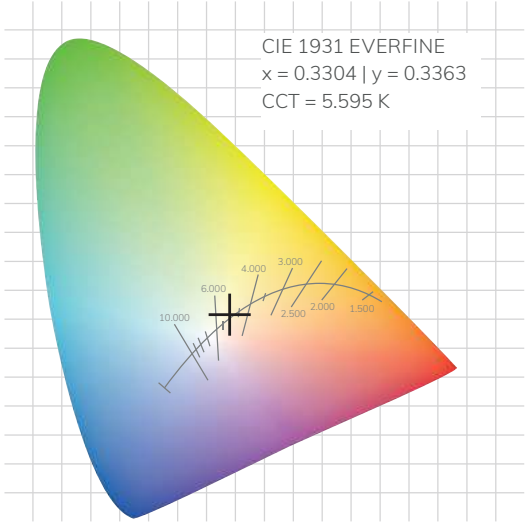
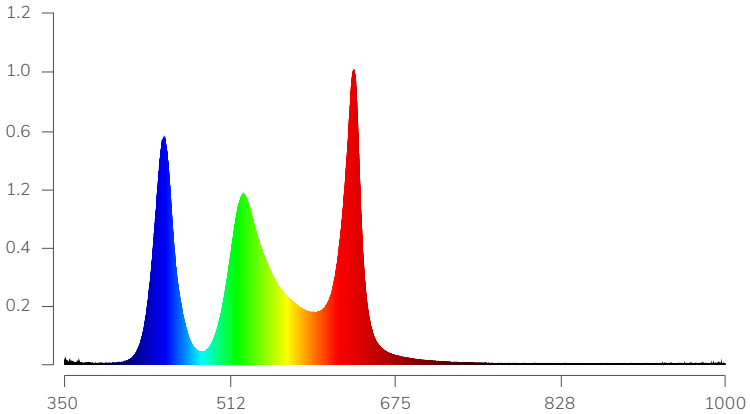


Report Summary 5.600 Kelvin – Daylight White/RAW

Photometrical Parameters	Electrical Parameters
Total Lumens: 2.393.1lm	Power Consumption: 49.01 W
Fixture Efficancy: 48.83lm/W	AC Supply: 219,9 V, 50Hz
CCT: 5.595 Kelvin	Current: 0.3179 A
CRI/Ra: 70.5	Power Factor: 0.7011
TLCI: 60.6	
Chromaticity Coordinate CIE 1931: x 0.3304 | y 0.3363	



Spectrum



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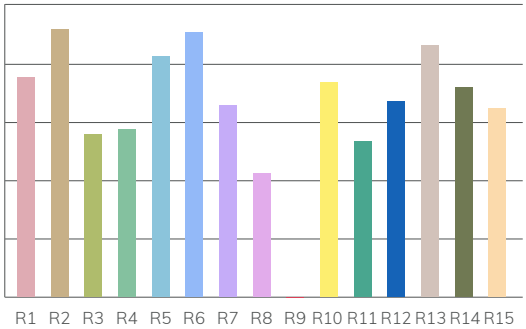
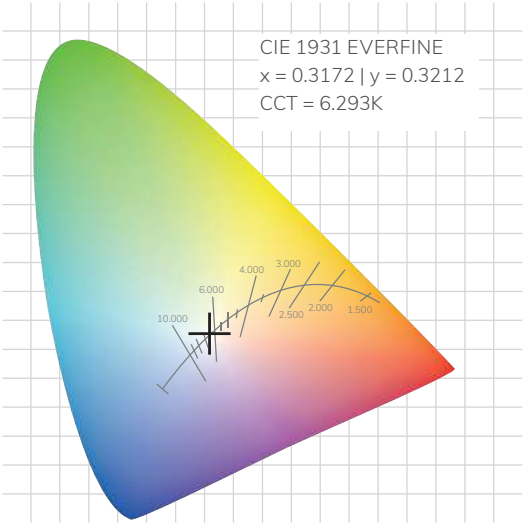


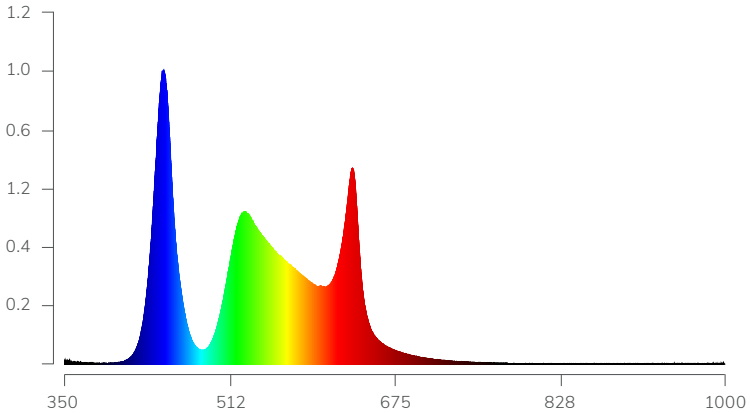
Chromaticity Reports
6.300 Kelvin – Cold White

Report Summary 6.300 Kelvin – Cold White/CALIBRATED

Photometrical Parameters	Electrical Parameters
Total Lumens: 1.568.0lm	Power Consumption: 32.66 W
Fixture Efficancy: 48.02lm/W	AC Supply: 219,9 V, 50Hz
CCT: 6.293 Kelvin	Current: 0.2571 A
CRI/Ra: 81.0	Power Factor: 0.5776
TLCI: 71.9	
Chromaticity Coordinate CIE 1931: x 0.3172 | y 0.3212	



Spectrum



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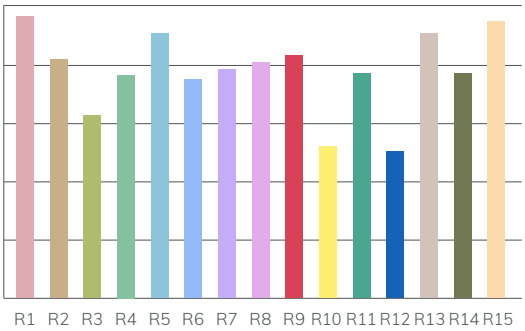
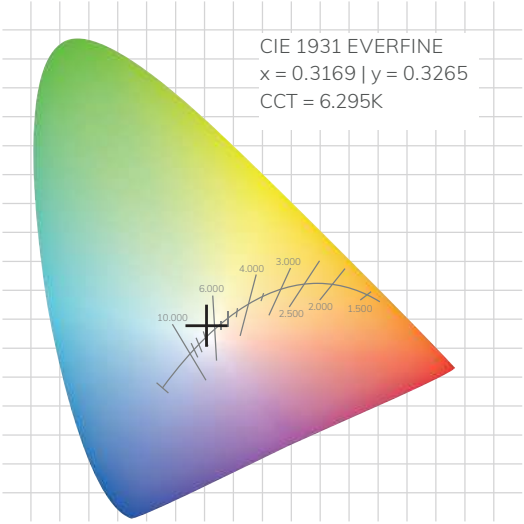
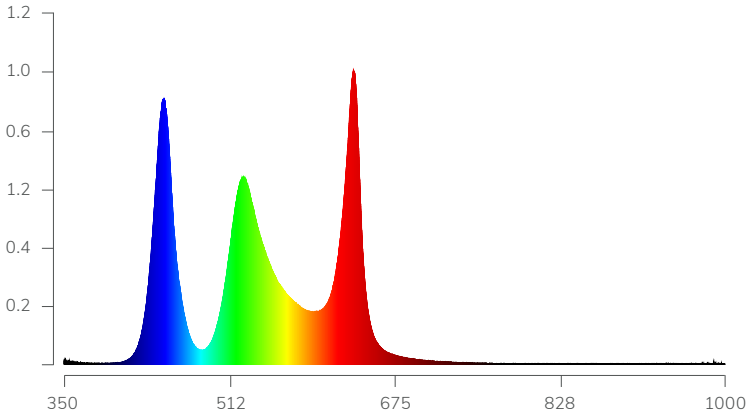


Report Summary 6.300 Kelvin – Cold White/RAW

Photometrical Parameters	Electrical Parameters
Total Lumens: 2518.8lm	Power Consumption: 51.51W
Fixture Efficancy: 48.90lm/W	AC Supply: 219,9 V, 50Hz
CCT: 6.295Kelvin	Current: 0.3269 A
CRI/Ra: 70.6	Power Factor: 0.7167
TLCI: 60.0	
Chromaticity Coordinate CIE 1931: x 0.3169 | y 0.3265	



Spectrum



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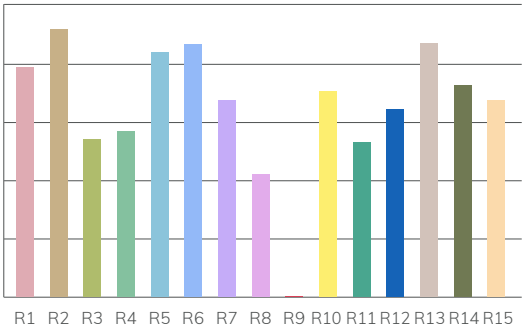


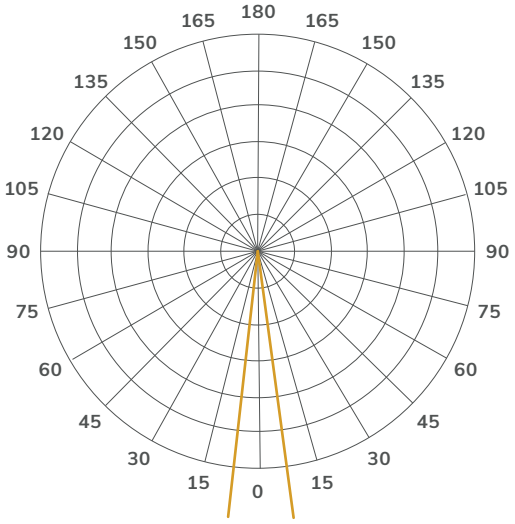
Photometric Report
VERY NARROW LENS

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

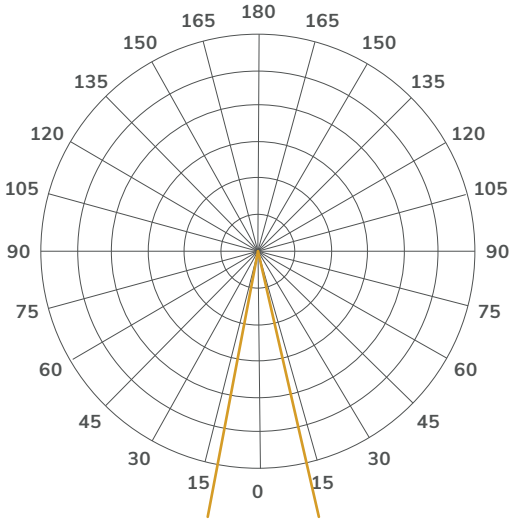
Beam Details

Angular Beam Distribution
BEAM ANGLE

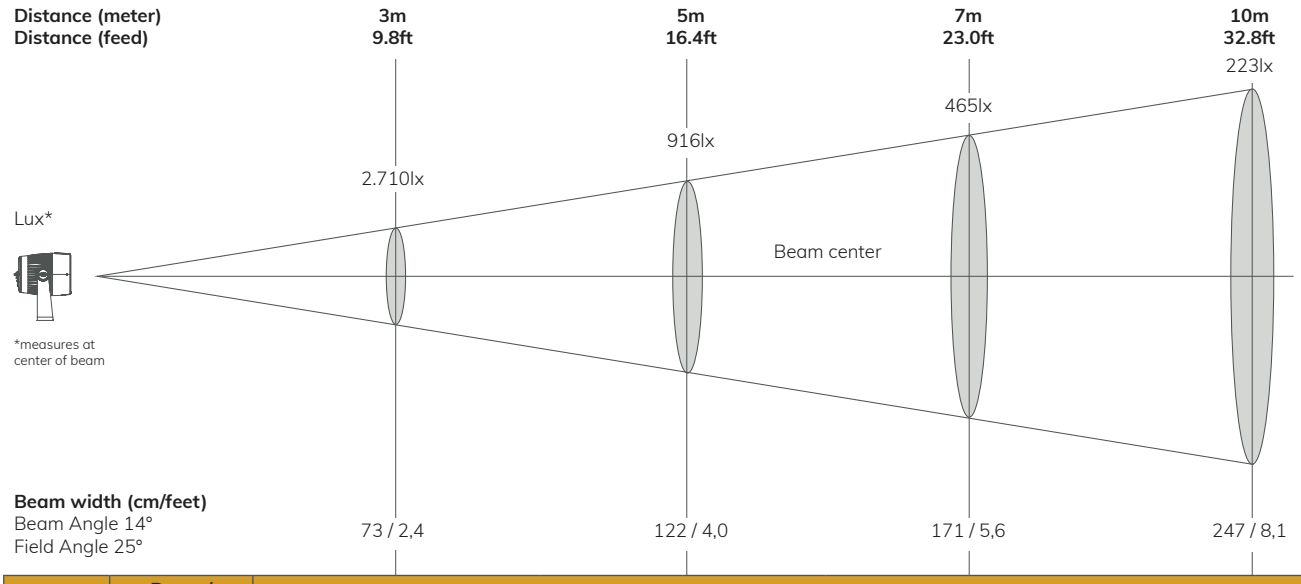


14,0°

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°	2710	73 / 2,4	916	122 / 4,0	465	171 / 5,6	223	247 / 8,1

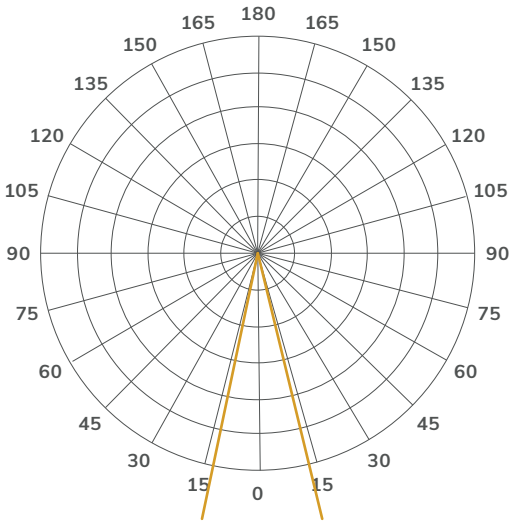
Photometric Report
NARROW LENS

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

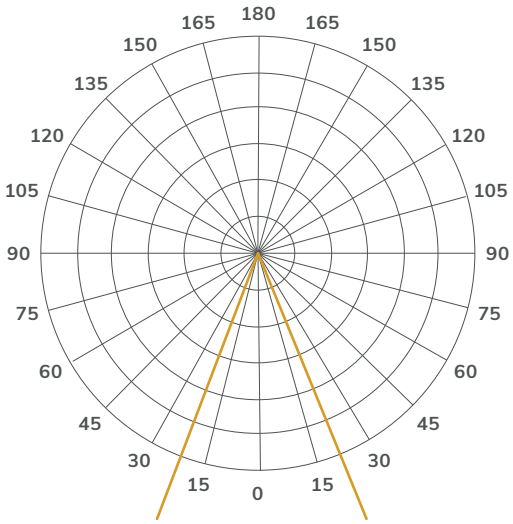
Beam Details

Angular Beam Distribution
BEAM ANGLE

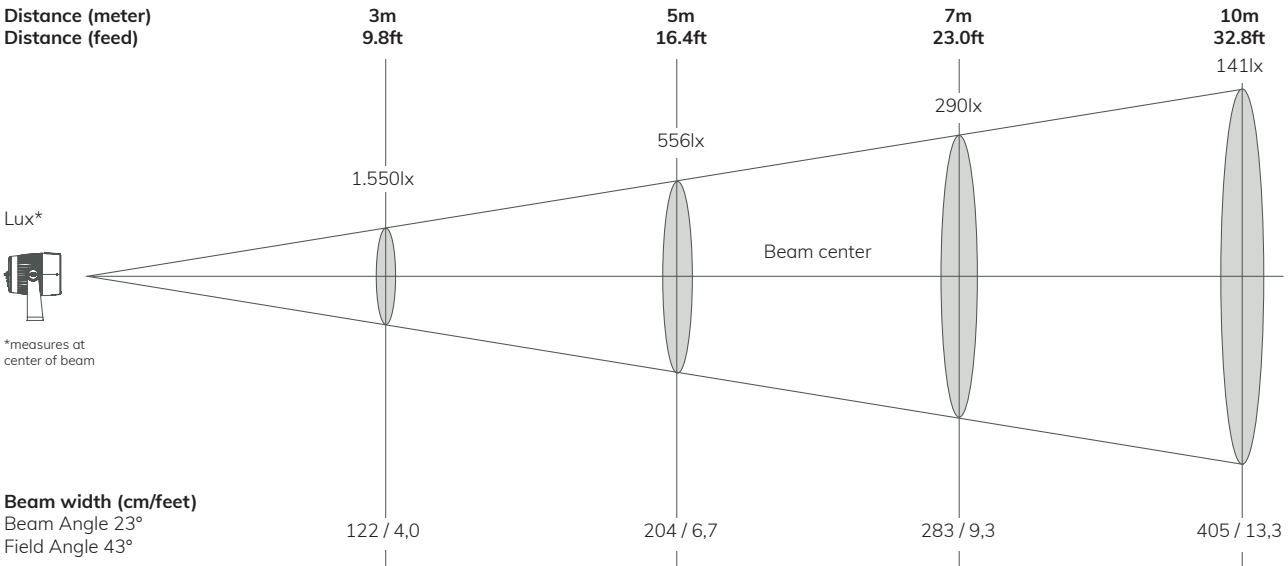


23,0°

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°	1550	122 / 4,0	556	204 / 6,7	290	283 / 9,3	141	405 / 13,3

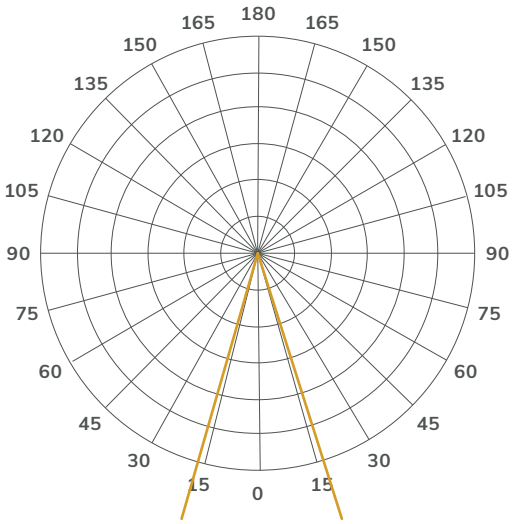
Photometric Report
MEDIUM LENS

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

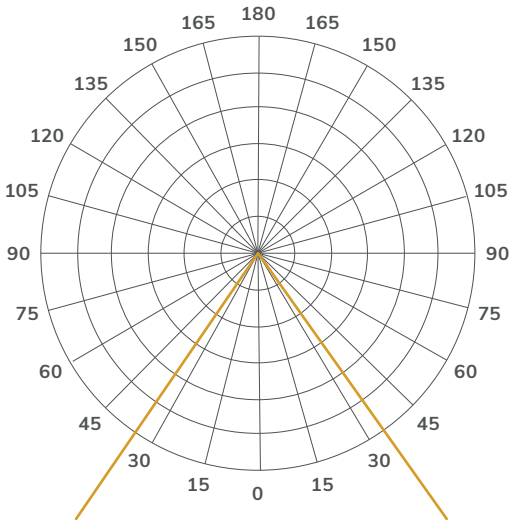
Beam Details

Angular Beam Distribution
BEAM ANGLE

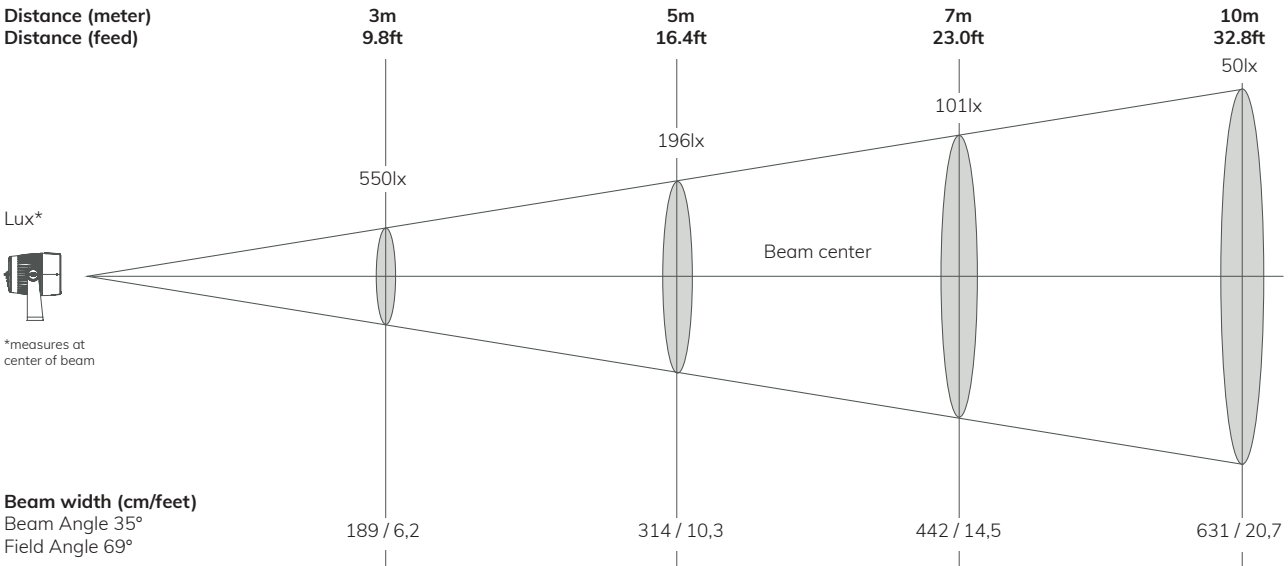


35,0°

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°	550	189 / 6,2	196	314 / 10,3	101	442 / 14,5	50	631 / 20,7

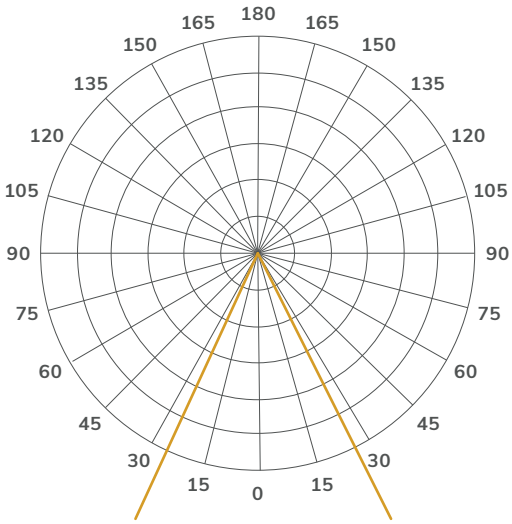
Photometric Report
WIDE LENS

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

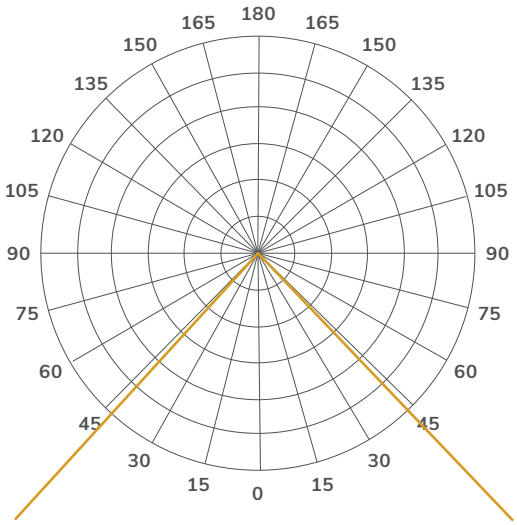
Beam Details

Angular Beam Distribution
BEAM ANGLE

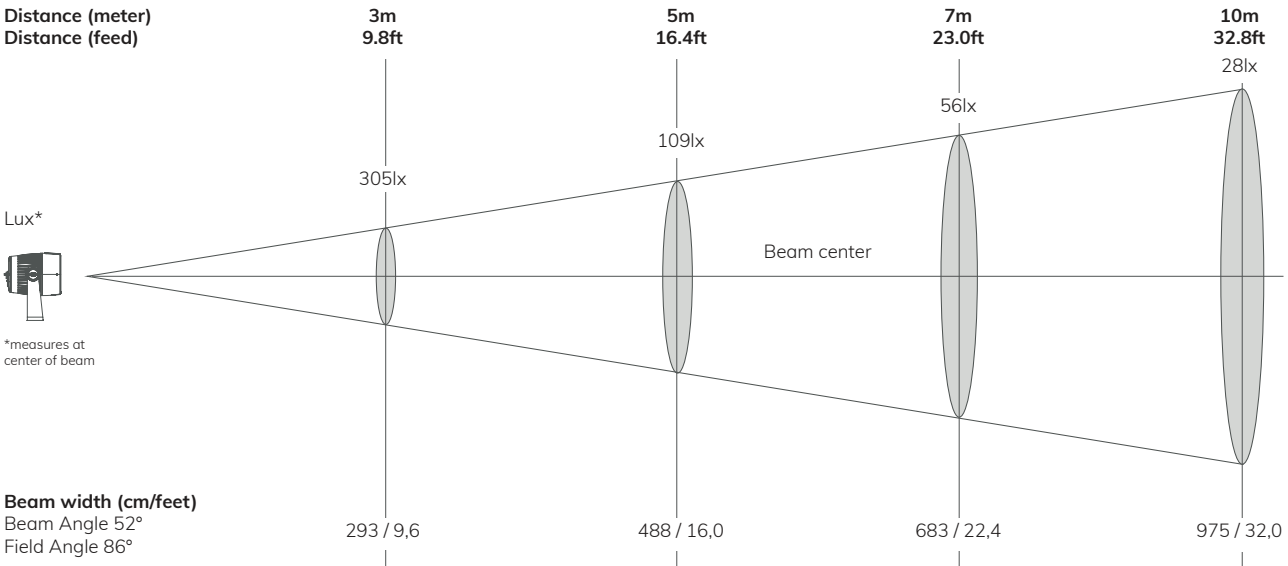


52,0°

Angular Beam Distribution
FIELD ANGLE



86,0°

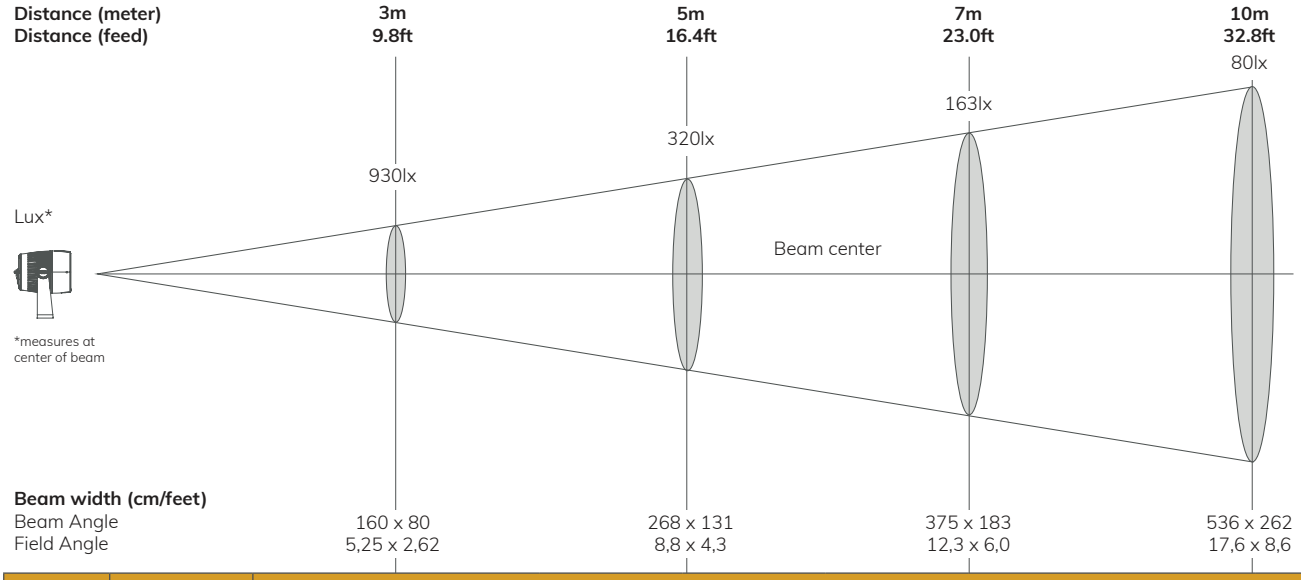


Lens	Beam / Field Angle	Distance							
		3m/9.8ft		5m/16.4ft		7m/23ft		10m/32.8ft	
		Illuminance lux	Diameter cm/feet	Illuminance lux	Diameter cm/feet	Illuminance lux	Diameter cm/feet	Illuminance lux	Diameter cm/feet
W lens	52° / 86°	305	293 / 9,6	109	488 / 16,0	56	683 / 22,4	28	975 / 32,0

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

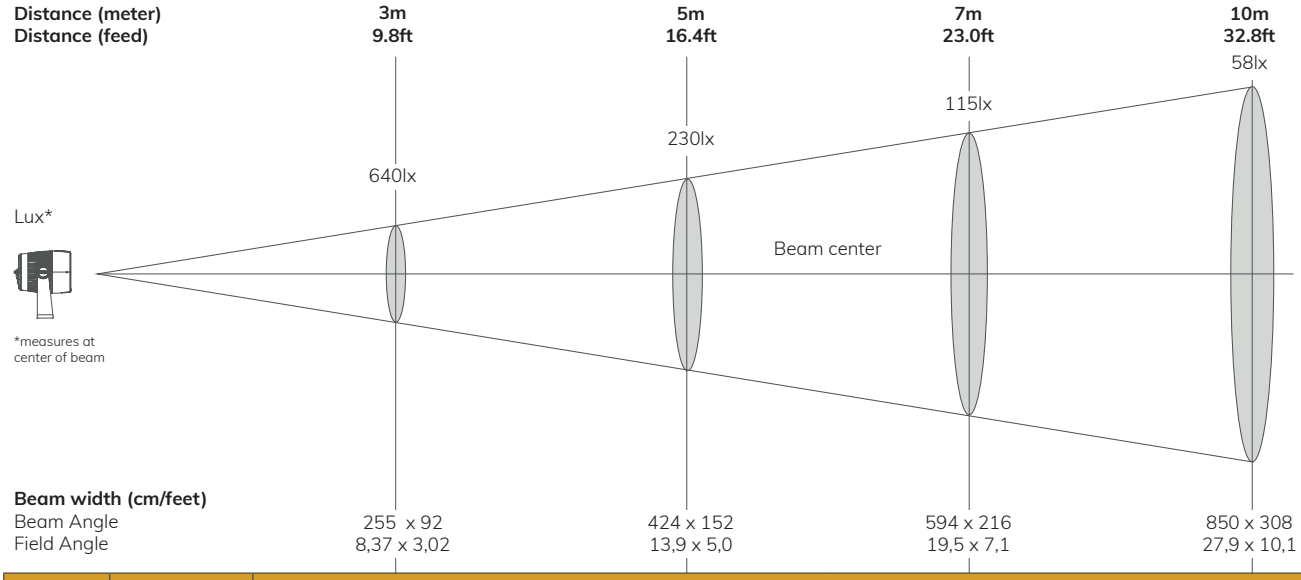


Lens	Beam / Field Angle	Distance							
		3m/9.8ft		5m/16.4ft		7m/23ft		10m/32.8ft	
		Illuminance lux	**Diameter** cm/feet	**Illuminance** lux	**Diameter** cm/feet	**Illuminance** lux	**Diameter** cm/feet	**Illuminance** lux	**Diameter** cm/feet
EN lens (v x h)	30° / 58° x 15° / 34°	930	160 x 80 / 5,25 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°	640	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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