

Photometric Report

ACT Fresnel 150W - zoom narrow , Ordercode 34012



REPORT SUMMARY

Output

Total Lumens:	6452 Lumen
Peak Intensity:	96471 candela
Illuminance @ 5m:	3859 lx
CRI:	96,7
CCT:	3053 K

Optical

Beam Angle (50%)	14,2 °
Field Angle (10%)	22,7 °

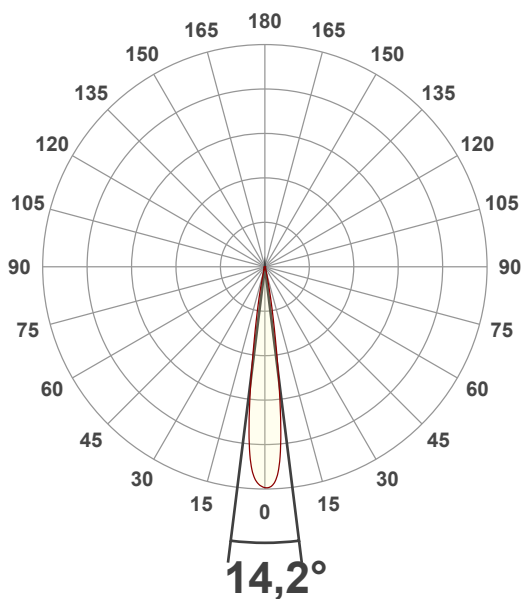
Conditions:

Power Supply:	223 V
Power:	165,3 W
Current:	0,774 A
Power Factor:	0,96

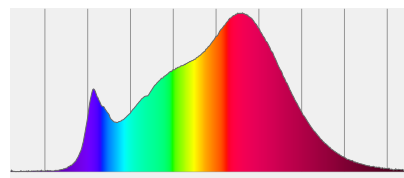


MEASUREMENTS

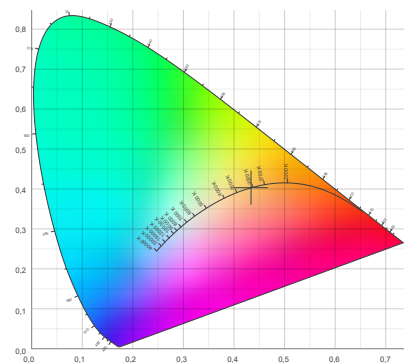
Angular Beam Distribution



Spectral Distribution



CIE 1931

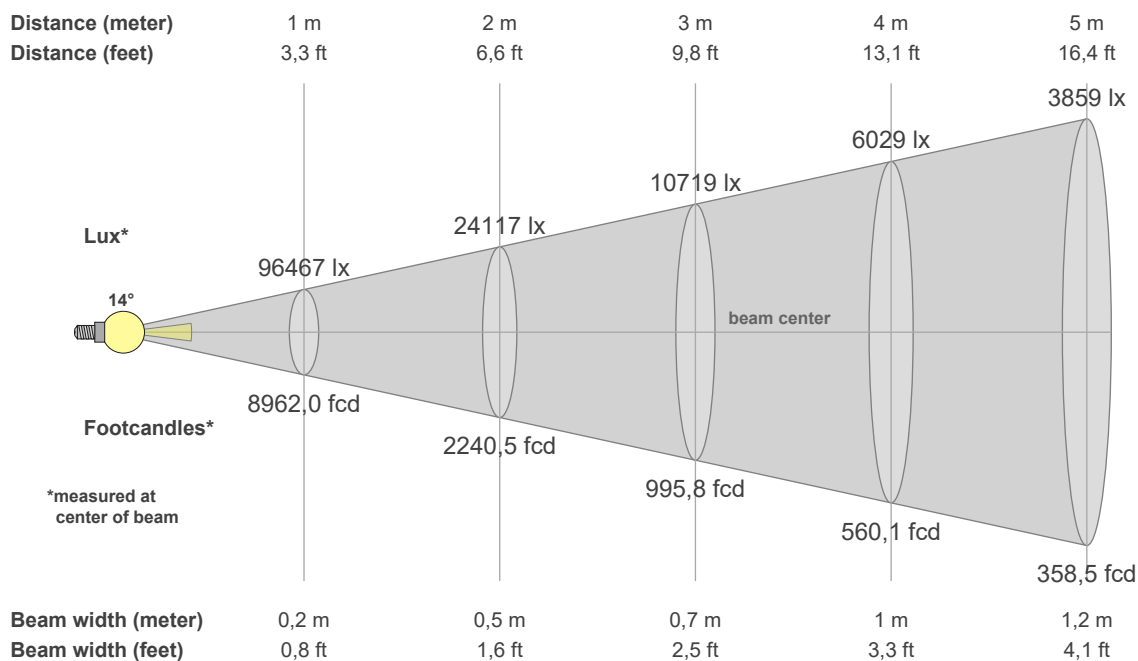


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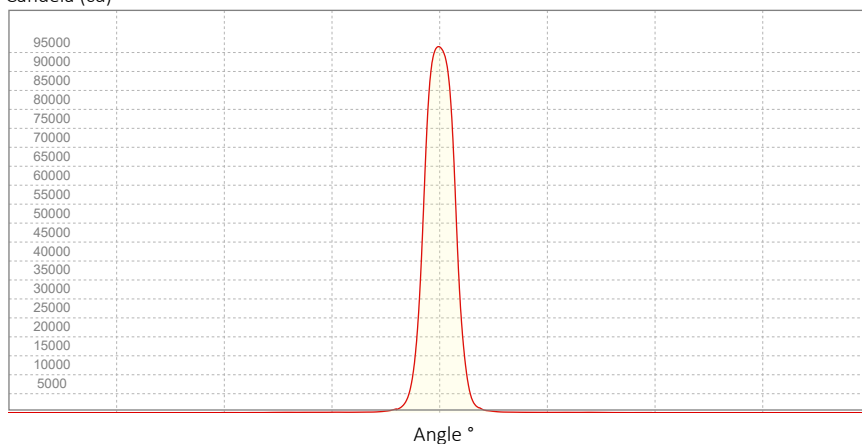
BEAM DETAILS



Beam Illuminances from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	19,7ft	23ft	26,2ft	29,5ft	32,8ft	36,1ft	39,4ft	42,7ft	45,9ft	49,2ft	52,5ft	55,8ft	59,1ft	62,3ft	65,6ft
96467lx	24117lx	10719lx	6029lx	3859lx	2680lx	1969lx	1507lx	1191lx	965lx	797lx	670lx	571lx	492lx	429lx	377lx	334lx	298lx	267lx	241lx
8962fcd	2240,5fcd	995,8fcd	560,1fcd	358,5fcd	248,9fcd	182,9fcd	140fcd	110,6fcd	89,6fcd	74,1fcd	62,2fcd	53fcd	45,7fcd	39,8fcd	35fcd	31fcd	27,7fcd	24,8fcd	22,4fcd

Candela (cd) Linear Distribution Diagram



Beam Angle (50%): 14,2 °

Field Angle (10%): 22,7 °

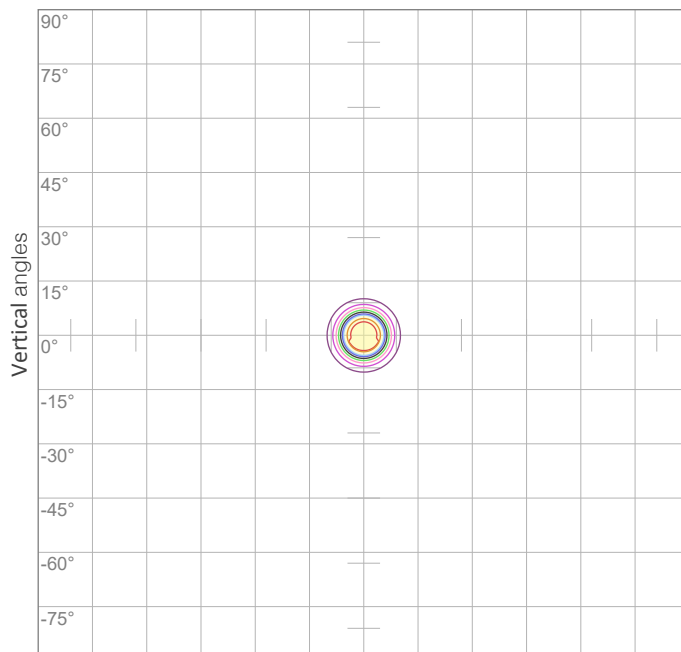
Cutoff Angle (3%): 29,1 °

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POLAR DIAGRAMS



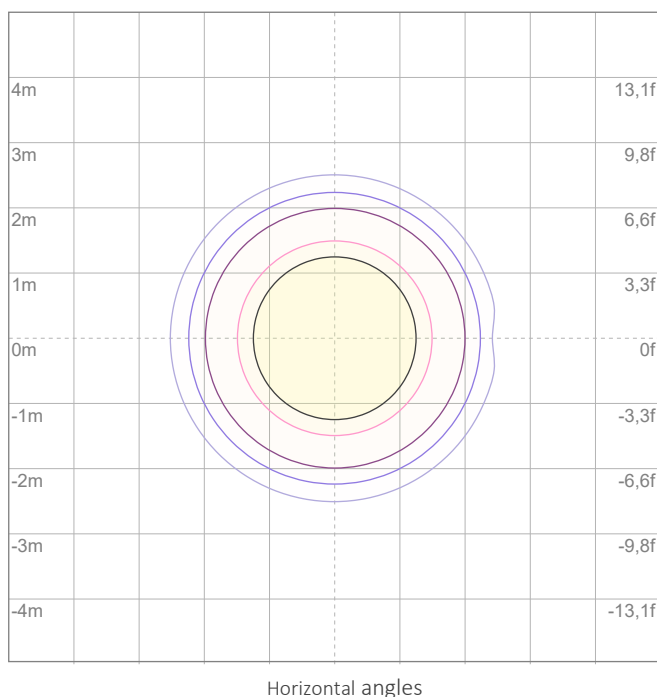
ISO candela diagram

10%	9647 cd
20%	19293 cd
30%	28940 cd
40%	38587 cd
50%	48233 cd
60%	57880 cd
70%	67527 cd

Conditions:

Number of c-planes: {C_PLANES}

Candela at center: 96467 cd



ISO lux diagram

3%	28,9 lx
5%	48,2 lx
10%	96,5 lx
30%	289 lx
50%	482 lx

Conditions:

Number of c-planes: 2

Lux at center: 965 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Mounting height: 10 meters (33 feet)

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CHROMATICITY REPORT

Total Lumens: 6452 lm
Peak Intensity: 96471 cd
Fixture Efficiency: 39 Lumen/Watt

Color Temperature: 3053 K
CRI: 96,7
CRI R9: 83,9
CQS: 93,3
TM-30 Rf: 91,3
TM-30 Rg: 97,3
 Δuv : 0,0002
1st Dominant Wavelength: 631 nm
2nd Dominant Wavelength: 457 nm



Spectral Distribution



Color

3053 K

CIE 1931 Coordinates:
X: 0,434 Y: 0,403

Color Temperature

3053 K

CRI

96,7

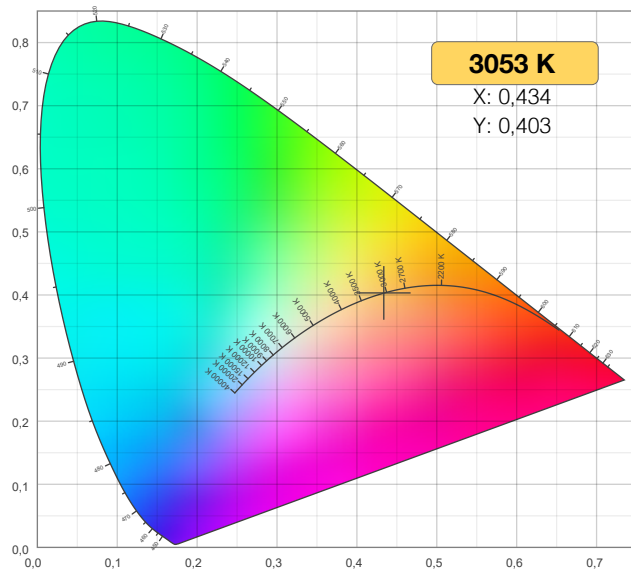
Photometric Report



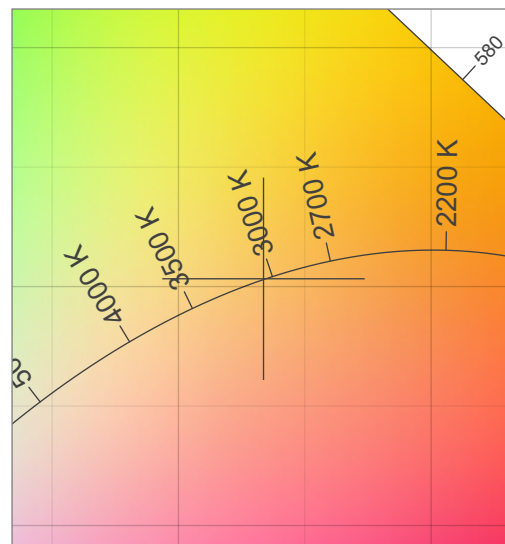
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CHROMATICITY

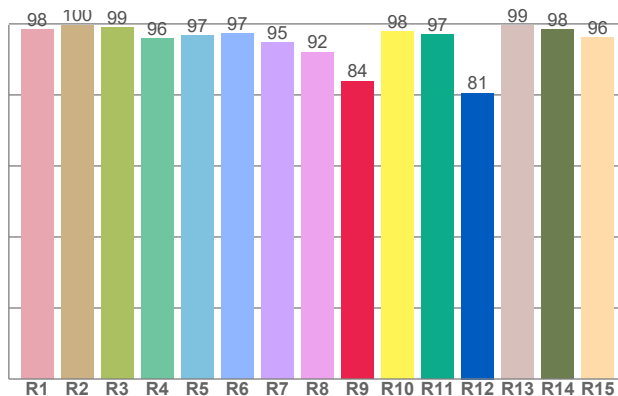
CIE 1931



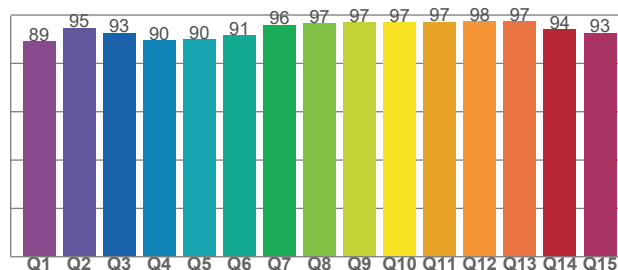
CIE 1931 - Detail



CRI: 96,7 (R1-R8)



CQSI: 93,3



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TM-30-18 DETAILS

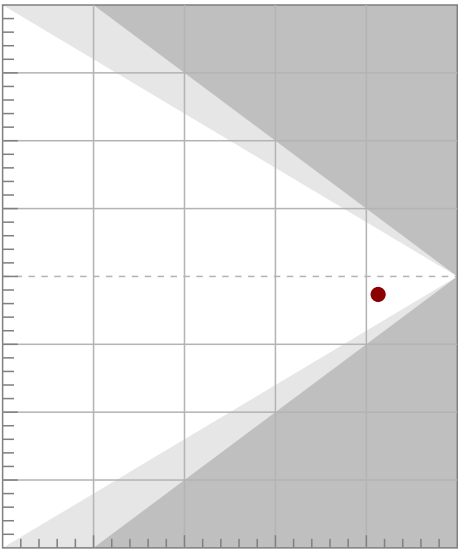
Rf 91,3

Fidelity index Rf

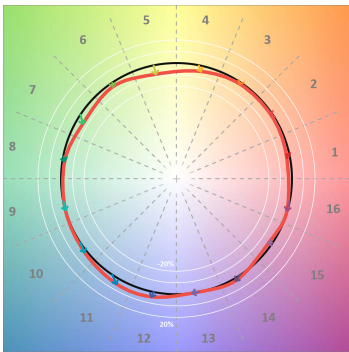
Rg 97,3

Gamut index Rg

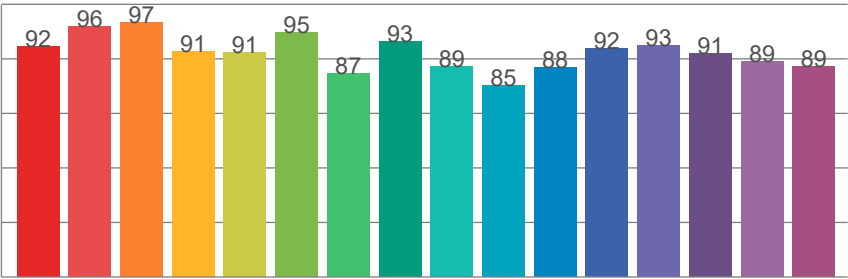
Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	92	-2%	2%
2	96	-1%	0%
3	97	-1%	0%
4	91	-5%	-3%
5	91	-8%	0%
6	95	-3%	1%
7	87	-6%	5%
8	93	-2%	4%
9	89	0%	8%
10	85	2%	9%
11	88	5%	8%
12	92	5%	-1%
13	93	0%	-6%
14	91	2%	-6%
15	89	-2%	-2%
16	89	0%	-8%



TM30-18 Color Vectors



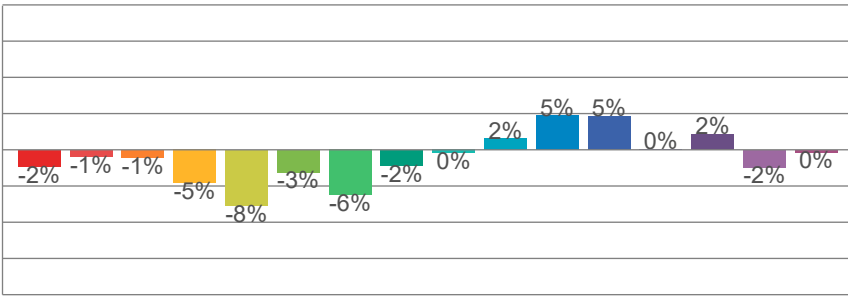
Rf by Hue Bin



TM30 Color Distortion



TM30 Chroma Shift



TM30 Color Fidelity Sample Chart

