

Photometric Report



SAM0904920002 LED zoomTrack light 30W (CW - wide), Zoom wide, Ordercode

REPORT SUMMARY

Output

Total Lumens:	2148 Lumen
Peak Intensity:	2342 candela
Illuminance @ 5m:	94 lx
CRI:	92,5
CCT:	6441 K



Optical

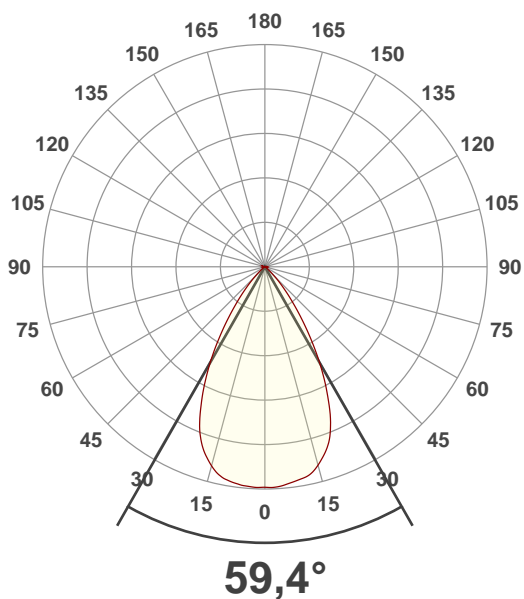
Beam Angle (50%)	59,4 °
Field Angle (10%)	85,9 °

Conditions:

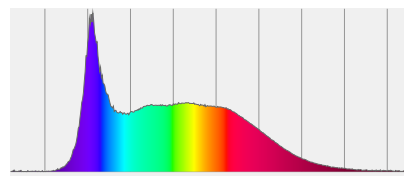
Power Supply:	223 V
Power:	29,4 W
Current:	0,133 A
Power Factor:	0,99

MEASUREMENTS

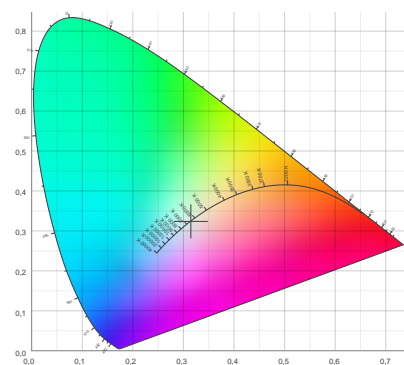
Angular Beam Distribution



Spectral Distribution



CIE 1931

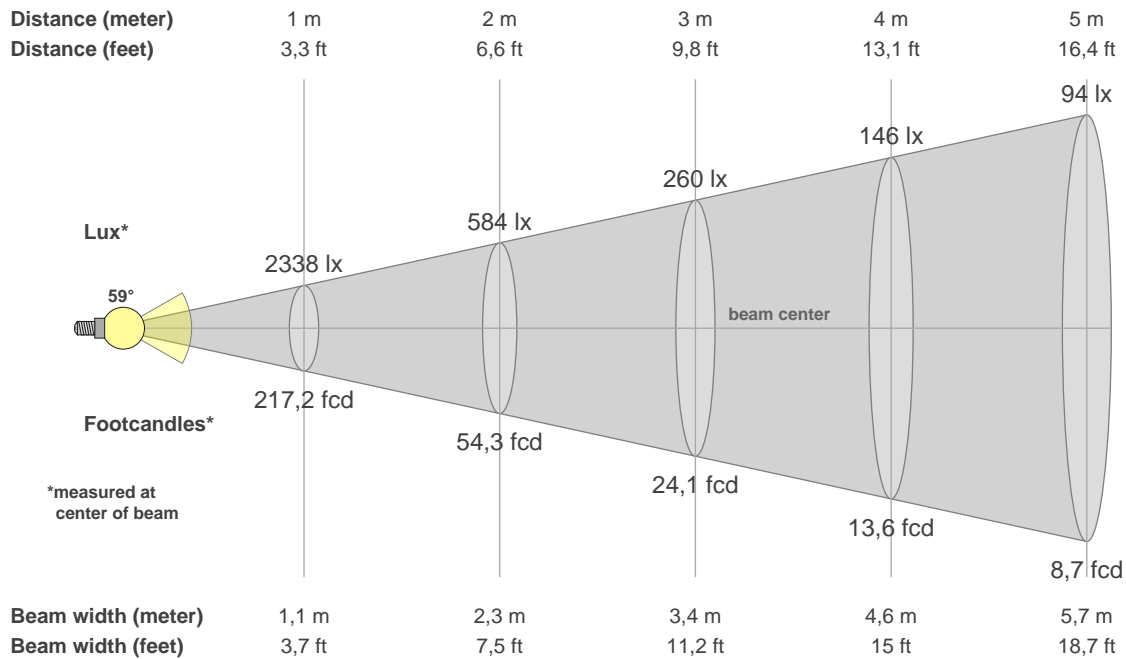


Photometric Report



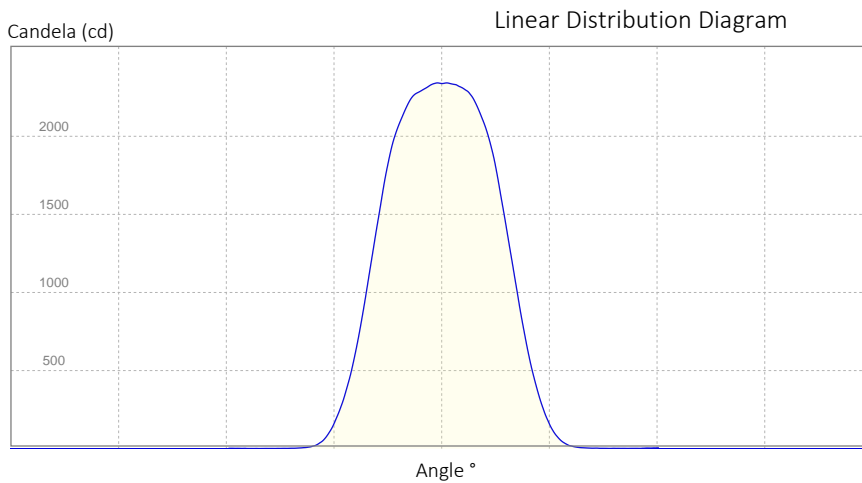
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BEAM DETAILS



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
2338lx	584lx	260lx	146lx	94lx	65lx	48lx	37lx	29lx	23lx	19lx	16lx	14lx	12lx	10lx	9lx	8lx	7lx	6lx	6lx
217,2fcd	54,3fcd	24,1fcd	13,6fcd	8,7fcd	6fcd	4,4fcd	3,4fcd	2,7fcd	2,2fcd	1,8fcd	1,5fcd	1,3fcd	1,1fcd	1fcd	0,8fcd	0,8fcd	0,7fcd	0,6fcd	0,5fcd



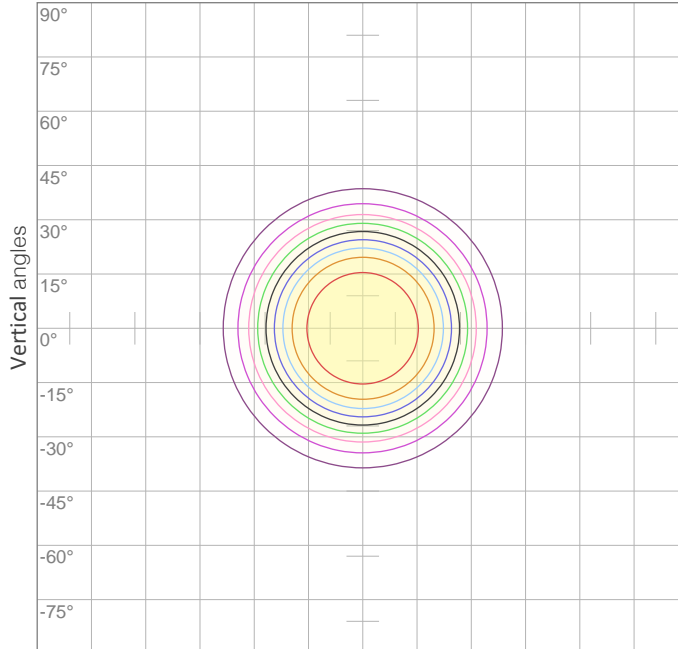
Beam Angle (50%): 59,4 °
 Field Angle (10%): 85,9 °
 Cutoff Angle (3%): 98,6 °

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POLAR DIAGRAMS



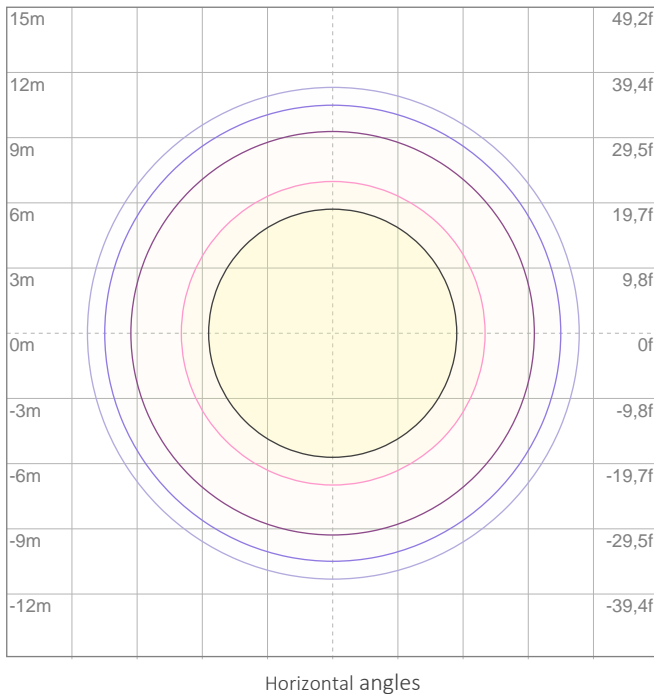
ISO candela diagram

10%	234 cd
20%	468 cd
30%	701 cd
40%	935 cd
50%	1169 cd
60%	1403 cd
70%	1637 cd

Conditions:

Number of c-planes: {C_PLANES}

Candela at center: 2338 cd



ISO lux diagram

3%	0,701 lx
5%	1,17 lx
10%	2,34 lx
30%	7,01 lx
50%	11,7 lx

Conditions:

Number of c-planes: 2

Lux at center: 23,4 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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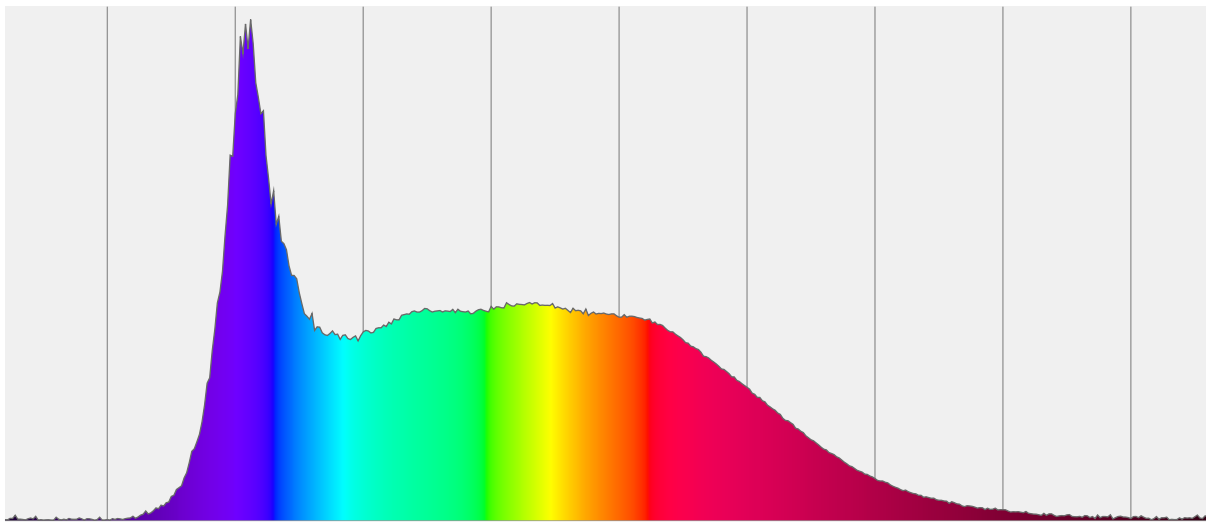
CHROMATICITY REPORT

Total Lumens: 2148 lm
Peak Intensity: 2342 cd
Fixture Efficiency: 73 Lumen/Watt

Color Temperature: 6441 K
CRI: 92,5
CRI R9: 69,7
CQS: 89,6
TM-30 Rf: 88,1
TM-30 Rg: 95,9
 Δuv : -0,0037
1st Dominant Wavelength: 456 nm
2nd Dominant Wavelength: 565 nm



Spectral Distribution



Color

6441 K
CIE 1931 Coordinates:
X: 0,315 Y: 0,324

Color Temperature

6441 K

CRI

92,5

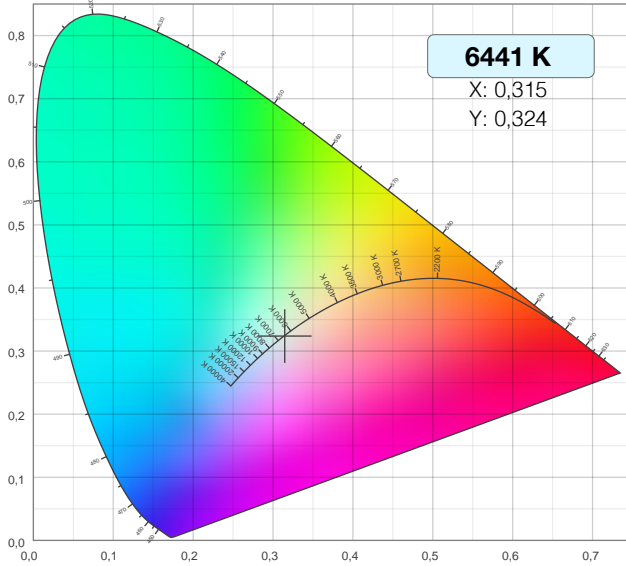
Photometric Report



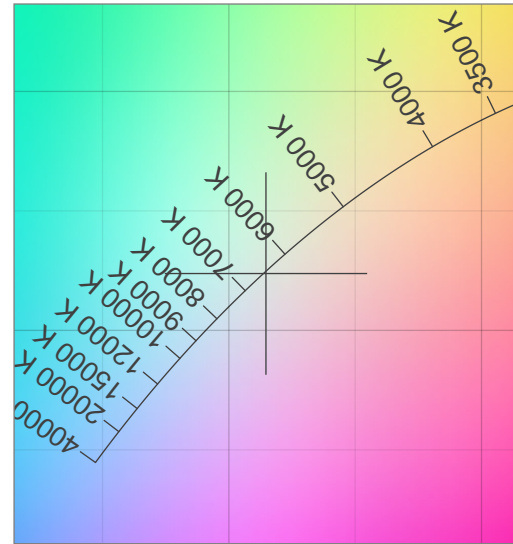
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CHROMATICITY

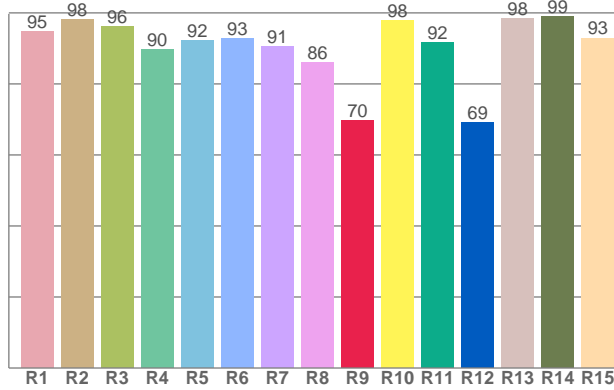
CIE 1931



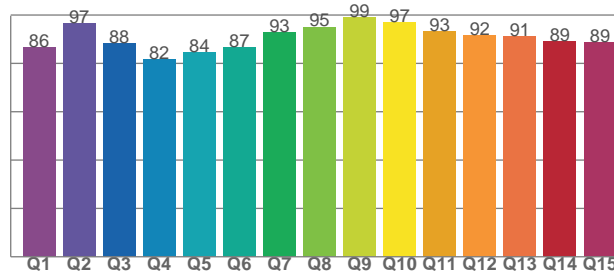
CIE 1931 - Detail



CRI: 92,5 (R1-R8)



CQSI: 89,6



Photometric Report



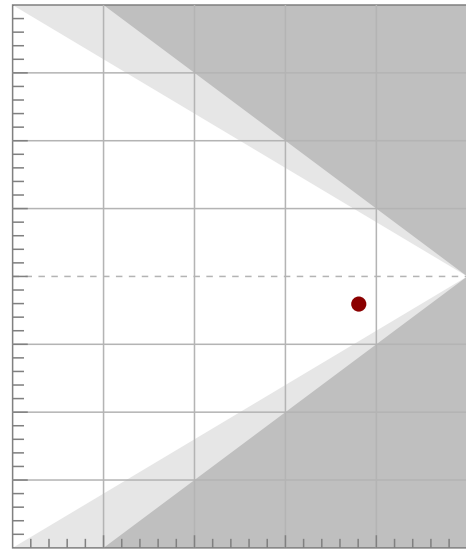
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TM-30-18 DETAILS

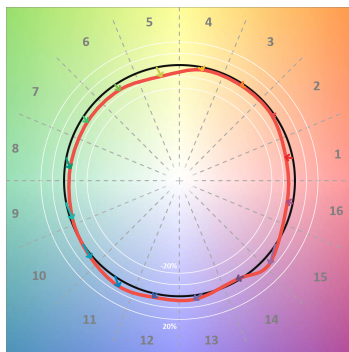
Rf 88,1
Fidelity index Rf

Rg 95,9
Gamut index Rg

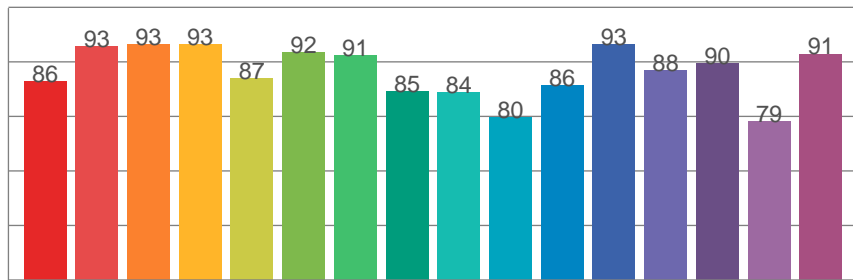
Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	86	-5%	2%
2	93	-2%	3%
3	93	-2%	1%
4	93	-2%	-1%
5	87	-8%	-2%
6	92	-6%	-1%
7	91	-5%	2%
8	85	-5%	8%
9	84	-3%	14%
10	80	1%	13%
11	86	5%	7%
12	93	4%	-3%
13	88	4%	-7%
14	90	-1%	-6%
15	79	5%	-16%
16	91	-5%	1%



TM30-18 Color Vectors



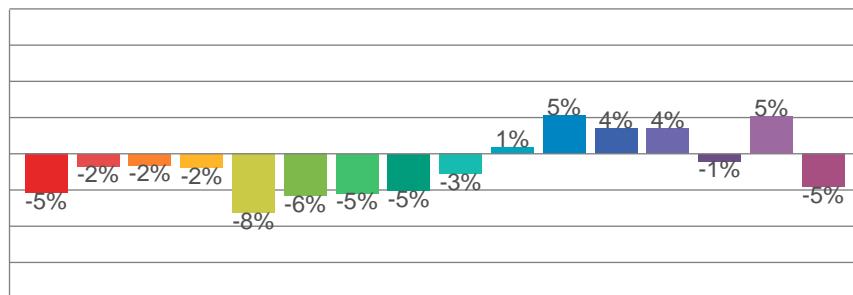
Rf by Hue Bin



TM30 Color Distortion



TM30 Chroma Shift



TM30 Color Fidelity Sample Chart

