

# Photometric Report

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

## REPORT SUMMARY

### Output

Total Lumens:	1724 Lumen
Peak Intensity:	11976 candela
Illuminance @ 5m:	479 lx
CRI:	92,7
CCT:	6364 K

### Optical

Beam Angle (50%)	20 °
Field Angle (10%)	34,1 °

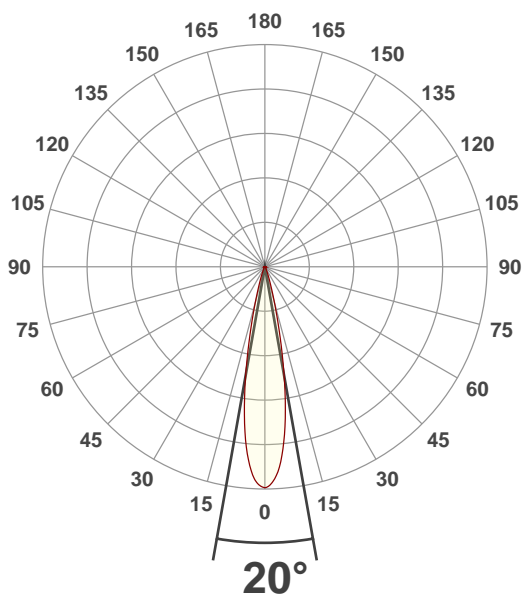
### Conditions:

Power Supply:	223 V
Power:	29,8 W
Current:	0,135 A
Power Factor:	0,99

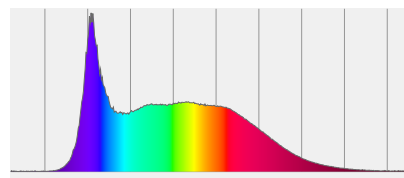


## MEASUREMENTS

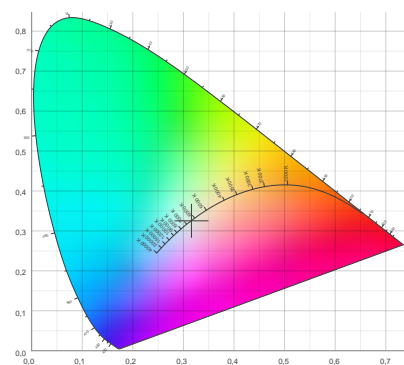
Angular Beam Distribution



Spectral Distribution



CIE 1931

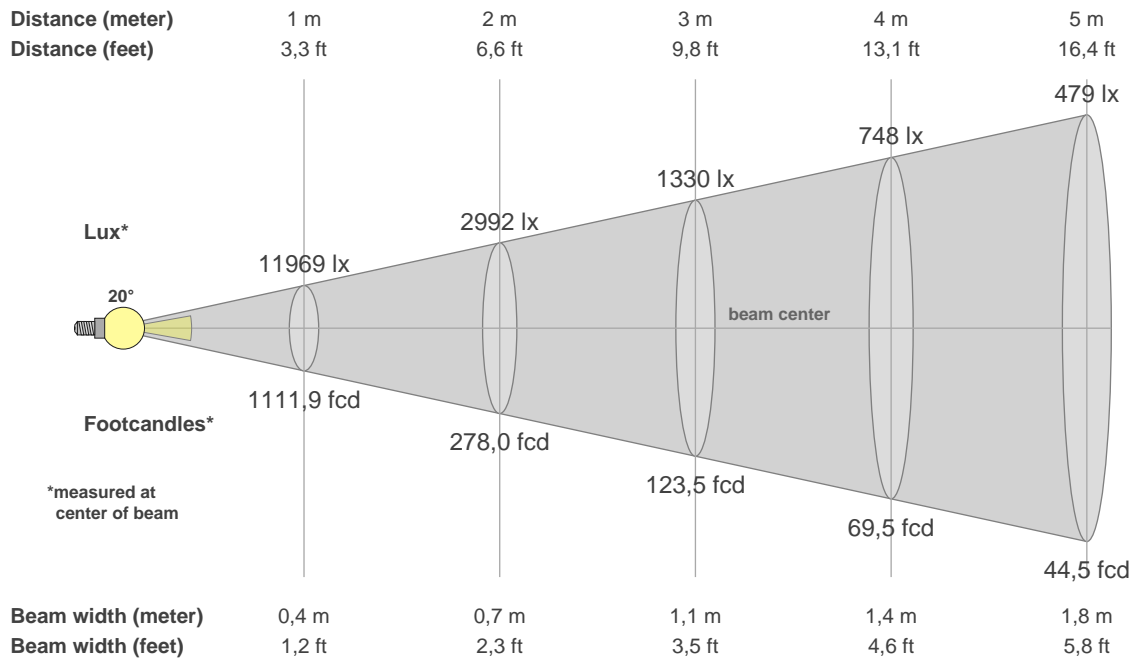


# Photometric Report



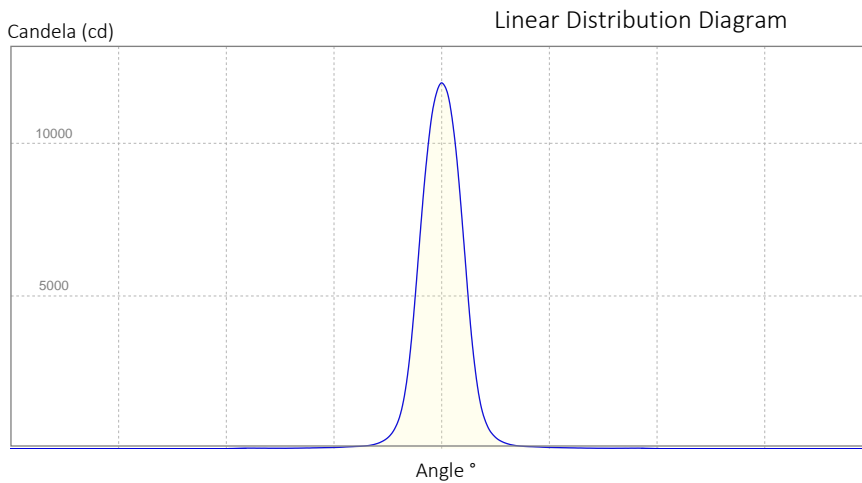
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## BEAM DETAILS



### 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
11969lx	2992lx	1330lx	748lx	479lx	332lx	244lx	187lx	148lx	120lx	99lx	83lx	71lx	61lx	53lx	47lx	41lx	37lx	33lx	30lx
1111,9fcd	278fcd	123,5fcd	69,5fcd	44,5fcd	30,9fcd	22,7fcd	17,4fcd	13,7fcd	11,1fcd	9,2fcd	7,7fcd	6,6fcd	5,7fcd	4,9fcd	4,3fcd	3,8fcd	3,4fcd	3,1fcd	2,8fcd



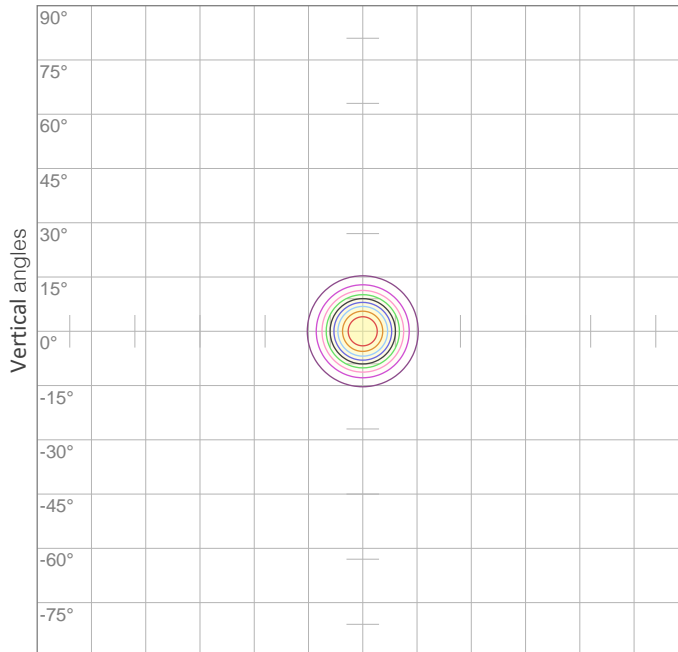
Beam Angle (50%): 20 °  
 Field Angle (10%): 34,1 °  
 Cutoff Angle (3%): 47,1 °

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## POLAR DIAGRAMS



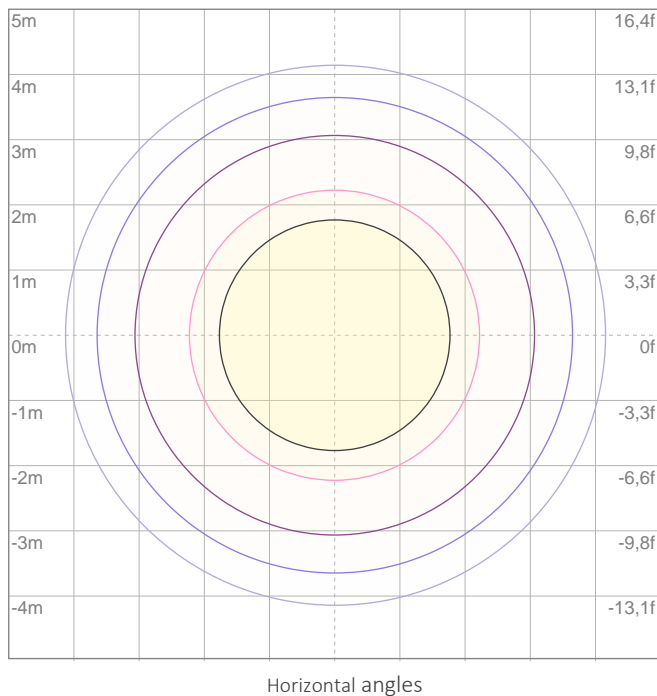
### ISO candela diagram

10%	1197 cd
20%	2394 cd
30%	3591 cd
40%	4788 cd
50%	5984 cd
60%	7181 cd
70%	8378 cd

Conditions:

Number of c-planes: {C\_PLANES}

Candela at center: 11969 cd



### ISO lux diagram

3%	3,59 lx
5%	5,98 lx
10%	12,0 lx
30%	35,9 lx
50%	59,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 120 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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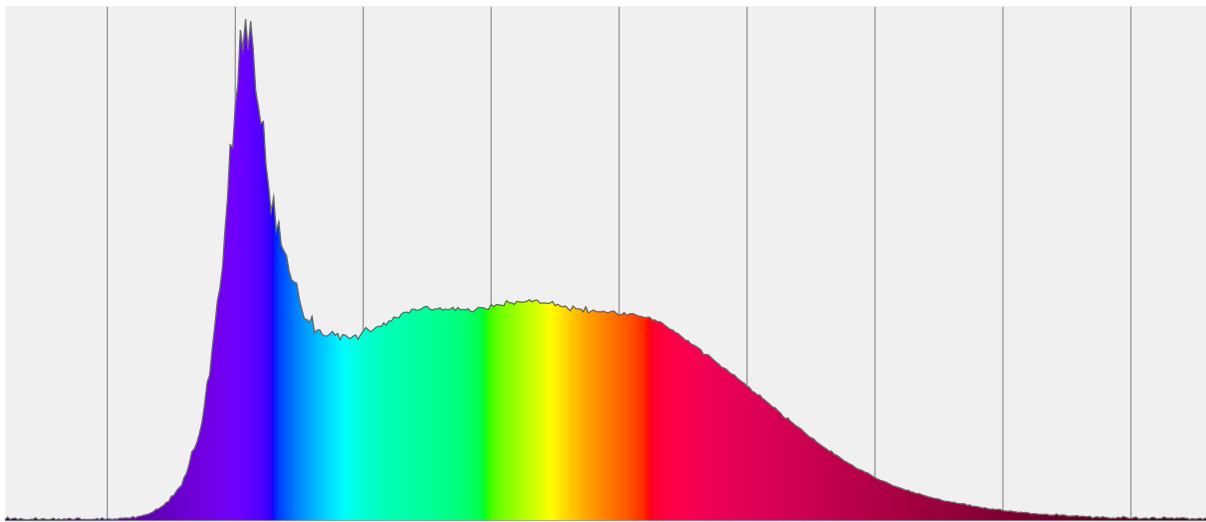
## CHROMATICITY REPORT

Total Lumens: 1724 lm  
Peak Intensity: 11976 cd  
Fixture Efficiency: 58 Lumen/Watt

Color Temperature: 6364 K  
CRI: 92,7  
CRI R9: 68,9  
CQS: 89,7  
TM-30 Rf: 88,3  
TM-30 Rg: 96,1  
 $\Delta uv$ : -0,0036  
1<sup>st</sup> Dominant Wavelength: 454 nm  
2<sup>nd</sup> Dominant Wavelength: 565 nm



Spectral Distribution



### Color

**6364 K**  
CIE 1931 Coordinates:  
X: 0,316 Y: 0,325

### Color Temperature

**6364 K**

### CRI

**92,7**

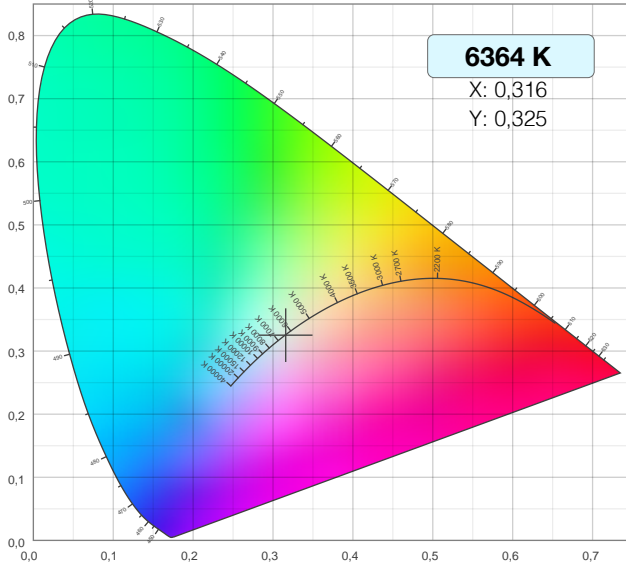
# Photometric Report



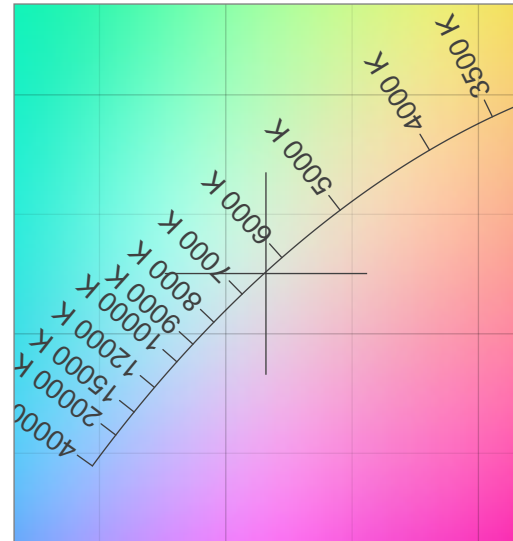
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## CHROMATICITY

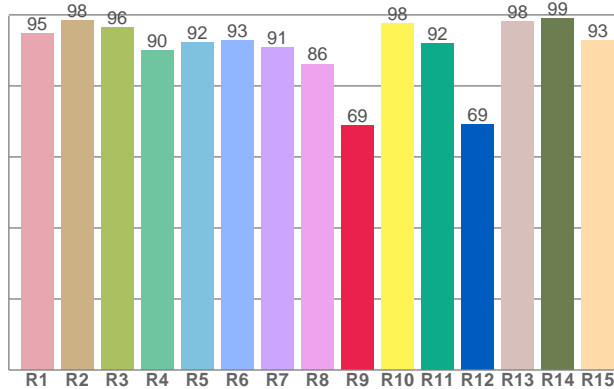
CIE 1931



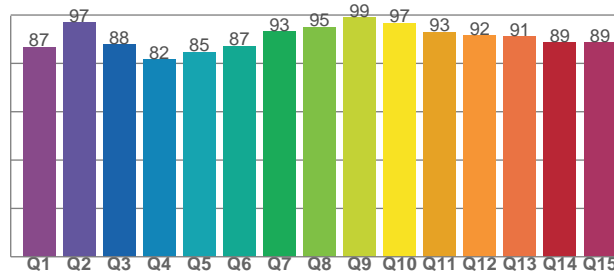
CIE 1931 - Detail



CRI: 92,7 (R1-R8)



CQSI: 89,7



# Photometric Report



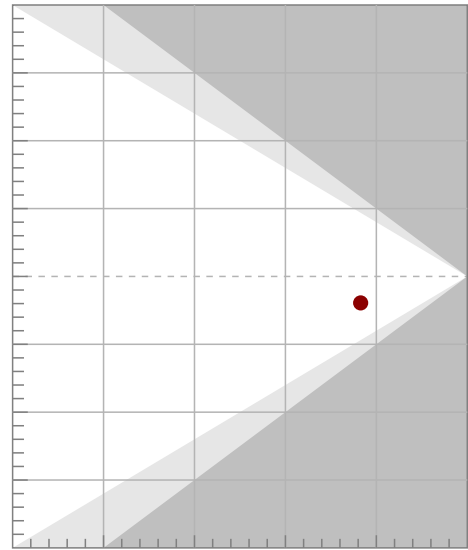
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## TM-30-18 DETAILS

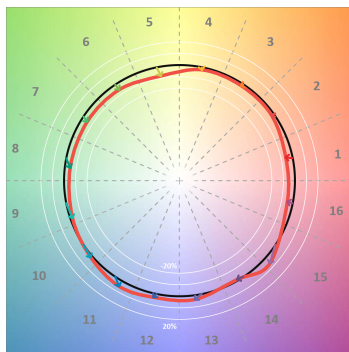
**Rf 88,3**  
Fidelity index Rf

**Rg 96,1**  
Gamut index Rg

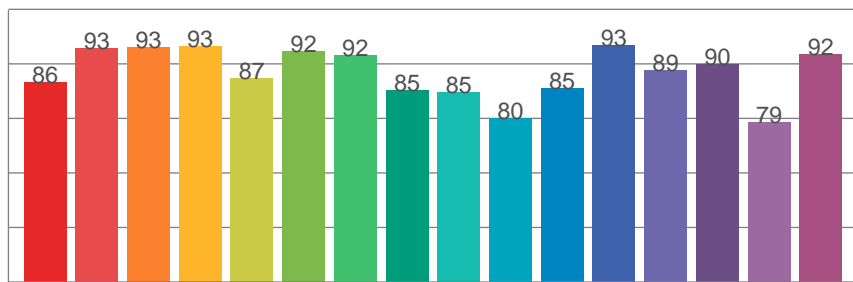
Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	86	-5%	2%
2	93	-2%	3%
3	93	-2%	1%
4	93	-2%	-1%
5	87	-8%	-2%
6	92	-5%	-1%
7	92	-5%	2%
8	85	-5%	7%
9	85	-3%	14%
10	80	1%	13%
11	85	5%	8%
12	93	4%	-2%
13	89	4%	-7%
14	90	-1%	-6%
15	79	5%	-16%
16	92	-4%	0%



TM30-18 Color Vectors



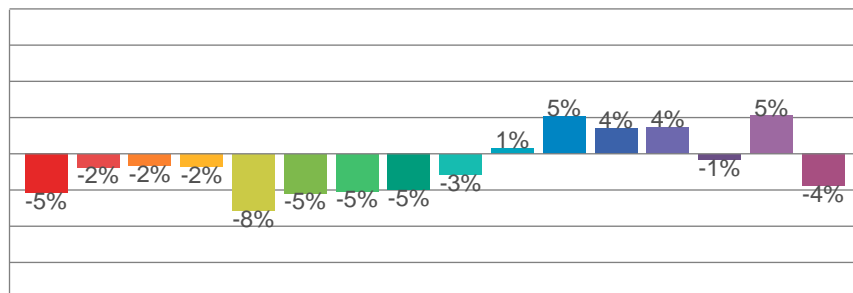
Rf by Hue Bin



TM30 Color Distortion



TM30 Chroma Shift



TM30 Color Fidelity Sample Chart

