

# Photometric Report



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

## REPORT SUMMARY

### Output

Total Lumens: 1728 Lumen  
Peak Intensity: 11859 candela  
Illuminance @ 5m: 474 lx  
CRI: 92,5  
CCT: 4315 K



### Optical

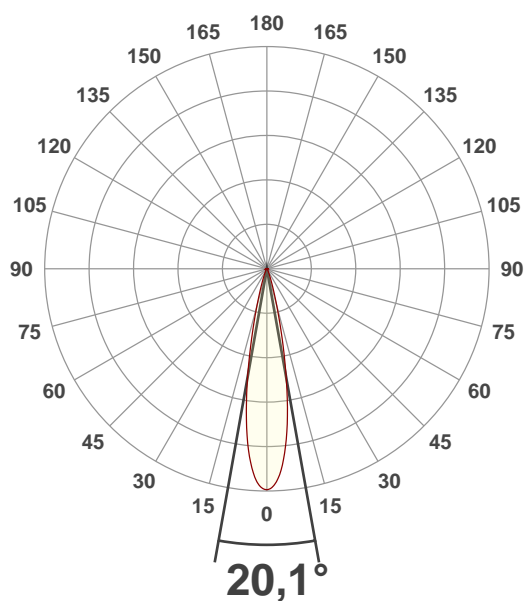
Beam Angle (50%) 20,1 °  
Field Angle (10%) 34,5 °

### Conditions:

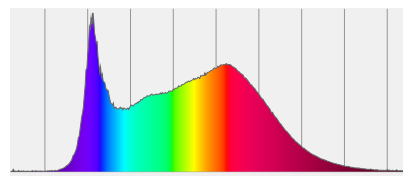
Power Supply: 223 V  
Power: 28,6 W  
Current: 0,129 A  
Power Factor: 0,99

## MEASUREMENTS

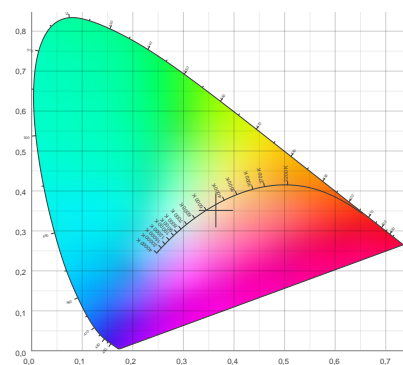
Angular Beam Distribution



Spectral Distribution



CIE 1931

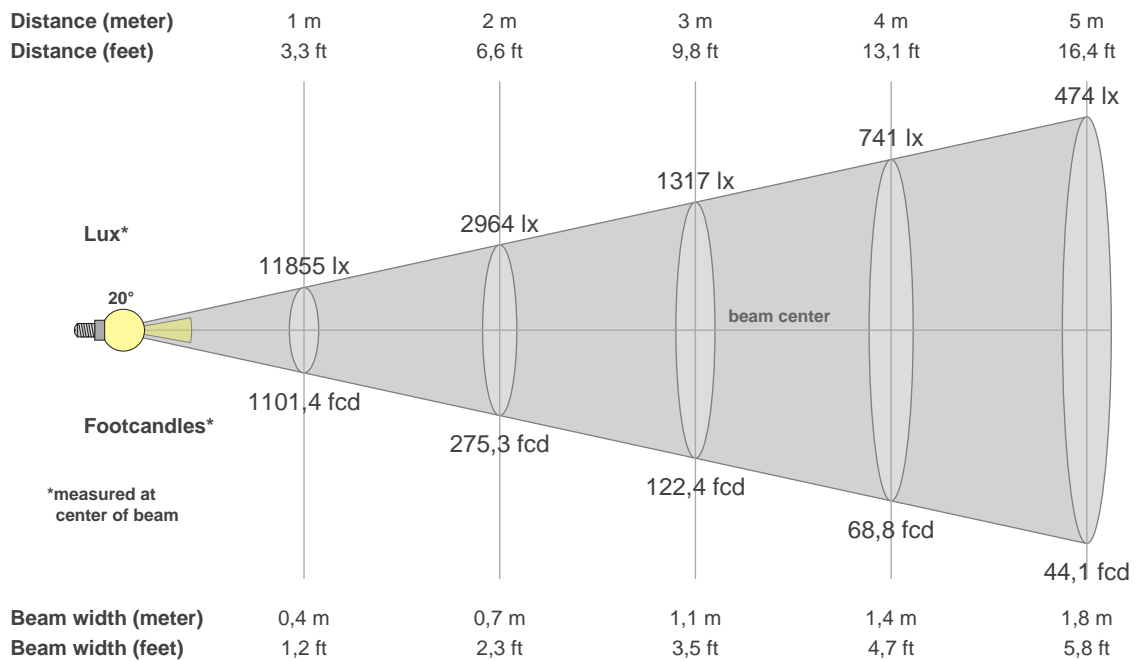


# Photometric Report



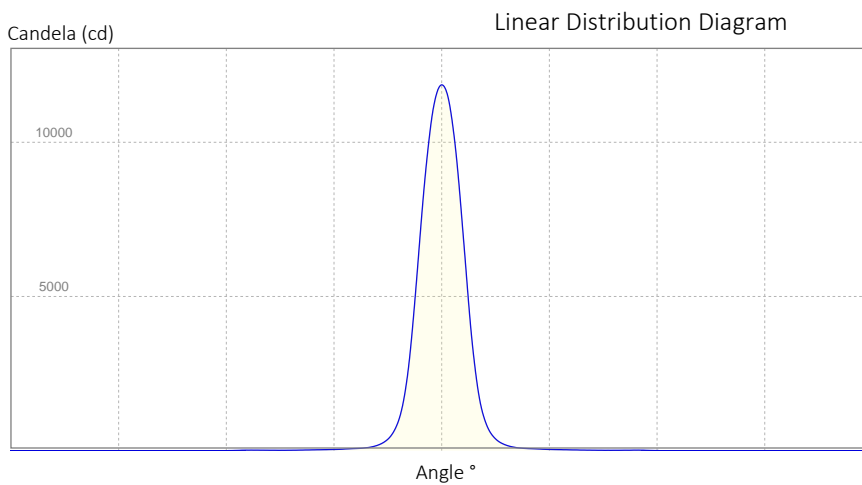
SAM0904920002 LED zoomTrack light 30W (NW - spot), Zoom spot, Ordercode

## 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
11855lx	2964lx	1317lx	741lx	474lx	329lx	242lx	185lx	146lx	119lx	98lx	82lx	70lx	60lx	53lx	46lx	41lx	37lx	33lx	30lx
1101,4fcd	275,3fcd	122,4fcd	68,8fcd	44,1fcd	30,6fcd	22,5fcd	17,2fcd	13,6fcd	11fcd	9,1fcd	7,6fcd	6,5fcd	5,6fcd	4,9fcd	4,3fcd	3,8fcd	3,4fcd	3,1fcd	2,8fcd



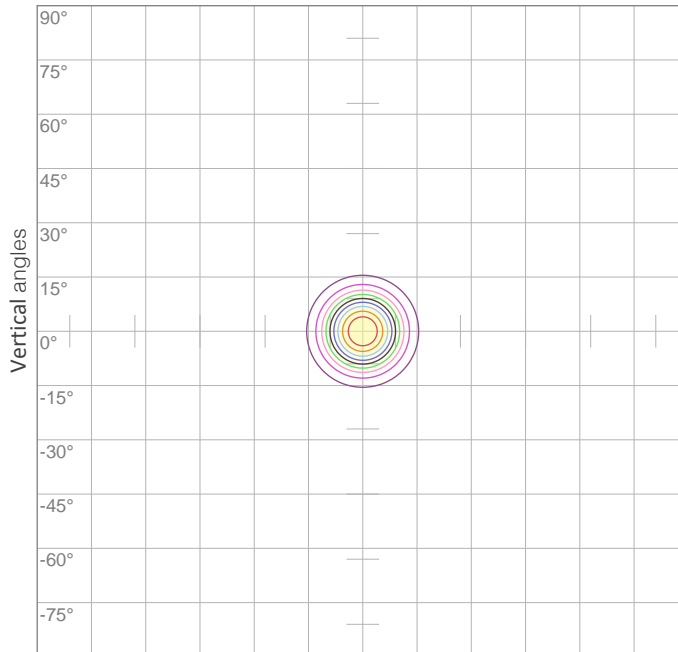
Beam Angle (50%): 20,1 °  
 Field Angle (10%): 34,5 °  
 Cutoff Angle (3%): 47,5 °

# Photometric Report



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

## POLAR DIAGRAMS



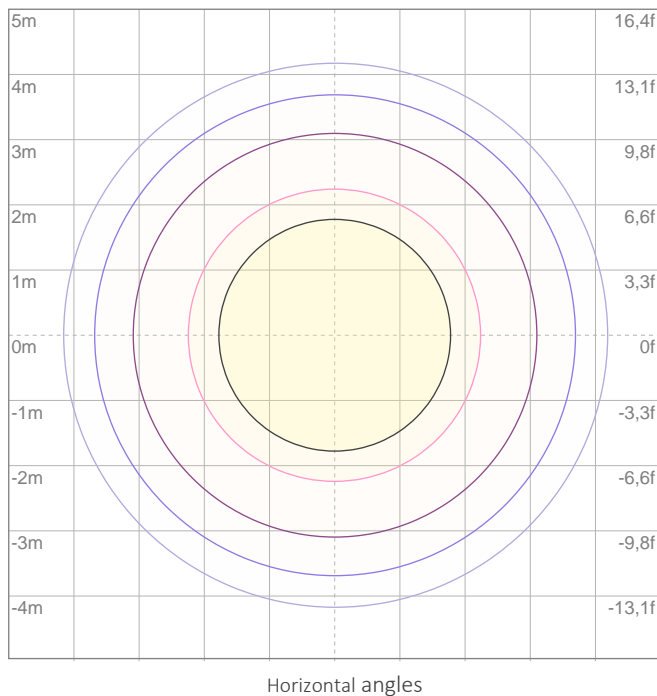
### ISO candela diagram

10%	1186 cd
20%	2371 cd
30%	3557 cd
40%	4742 cd
50%	5928 cd
60%	7113 cd
70%	8299 cd

Conditions:

Number of c-planes: {C\_PLANES}

Candela at center: 11855 cd



### ISO lux diagram

3%	3,56 lx
5%	5,93 lx
10%	11,9 lx
30%	35,6 lx
50%	59,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 119 lx

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

Mounting height: 10 meters (33 feet)

# Photometric Report



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

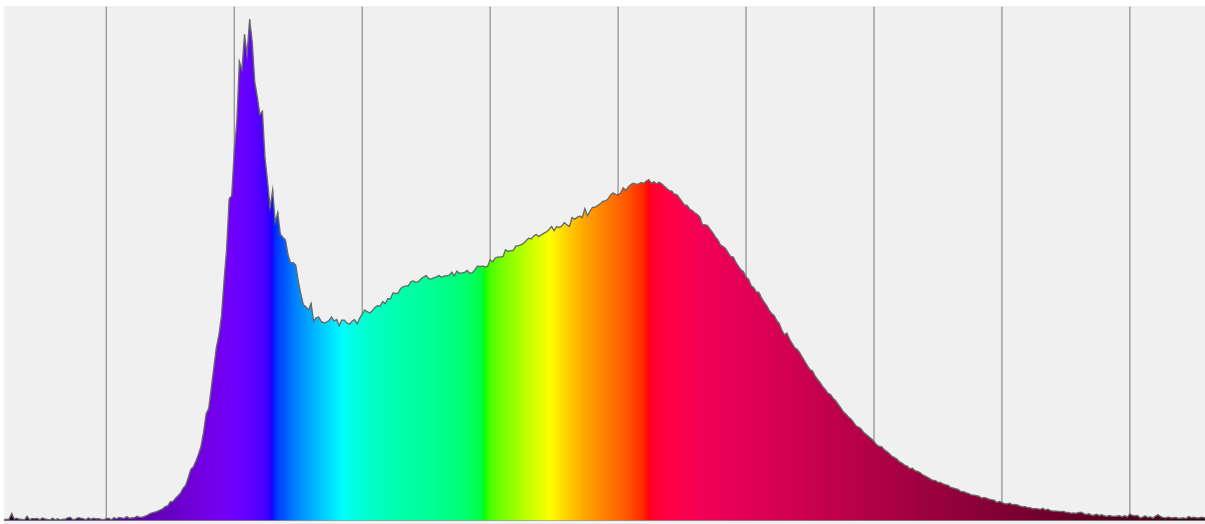
## CHROMATICITY REPORT

Total Lumens: 1728 lm  
Peak Intensity: 11859 cd  
Fixture Efficiency: 60 Lumen/Watt

Color Temperature: 4315 K  
CRI: 92,5  
CRI R9: 78,9  
CQS: 91,6  
TM-30 Rf: 89,2  
TM-30 Rg: 97,8  
 $\Delta uv$ : -0,0073  
1<sup>st</sup> Dominant Wavelength: 456 nm  
2<sup>nd</sup> Dominant Wavelength: 612 nm



Spectral Distribution



### Color

**4315 K**  
CIE 1931 Coordinates:  
X: 0,364 Y: 0,351

### Color Temperature

**4315 K**

### CRI

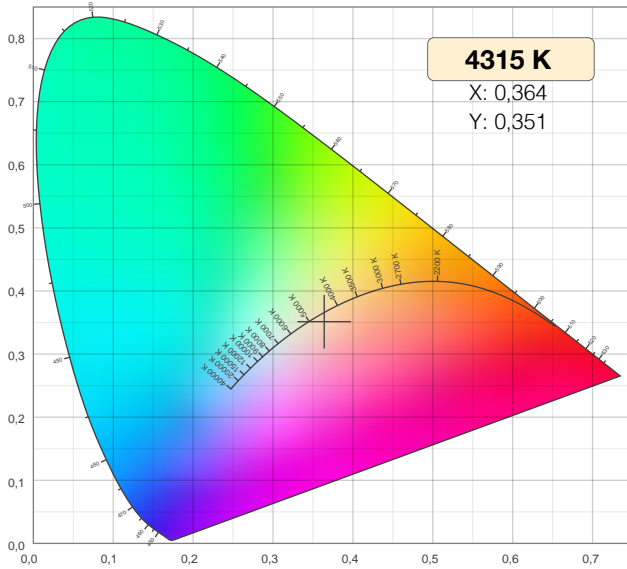
**92,5**

# Photometric Report

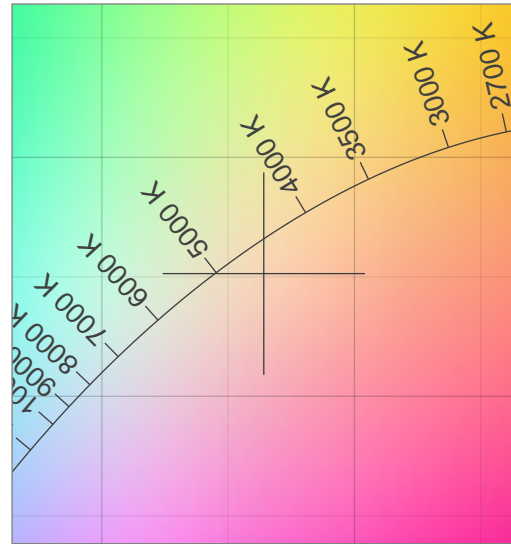
SAM0904920002 LED zoomTrack light 30W (NW - spot), Zoom spot, Ordercode

## CHROMATICITY

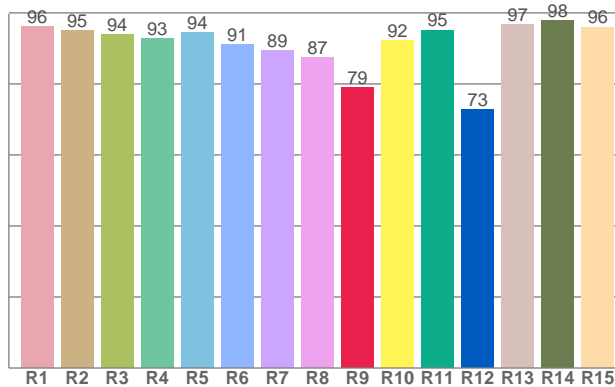
CIE 1931



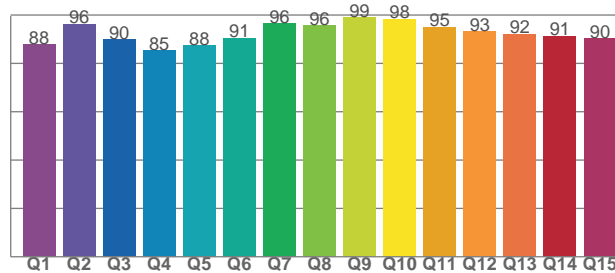
CIE 1931 - Detail



CRI: 92,5 (R1-R8)



CQSI: 91,6



# Photometric Report



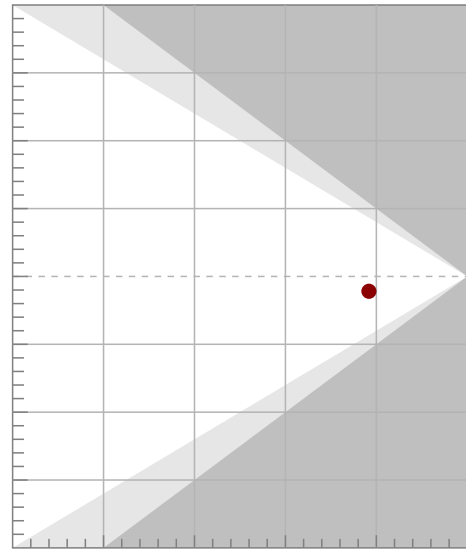
SAM0904920002 LED zoomTrack light 30W (NW - spot), Zoom spot, Ordercode

## TM-30-18 DETAILS

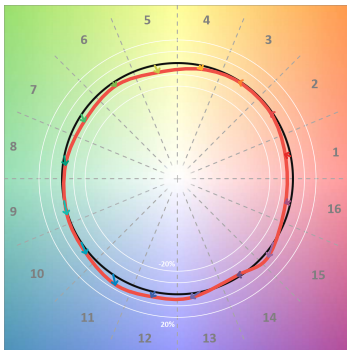
**Rf 89,2**  
Fidelity index Rf

**Rg 97,8**  
Gamut index Rg

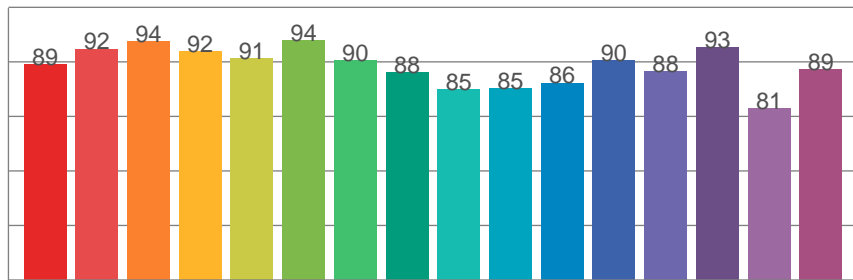
Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	89	-4%	2%
2	92	-1%	2%
3	94	-1%	2%
4	92	-3%	-2%
5	91	-6%	-2%
6	94	-3%	0%
7	90	-5%	3%
8	88	-3%	7%
9	85	0%	11%
10	85	2%	10%
11	86	6%	6%
12	90	5%	-2%
13	88	4%	-8%
14	93	-1%	-3%
15	81	3%	-12%
16	89	-4%	-2%



TM30-18 Color Vectors



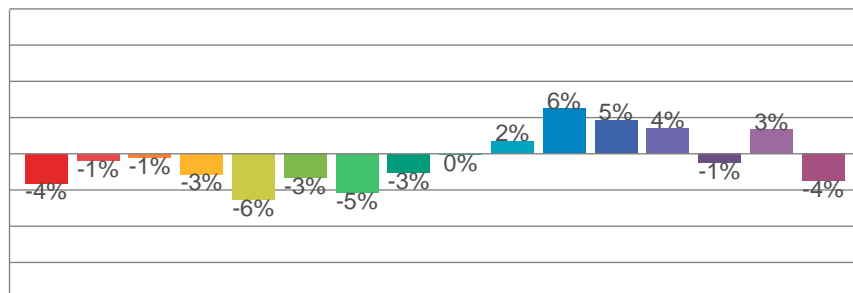
Rf by Hue Bin



TM30 Color Distortion



TM30 Chroma Shift



TM30 Color Fidelity Sample Chart

