

# Photometric Report



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

## REPORT SUMMARY

### Output

Total Lumens:	1741 Lumen
Peak Intensity:	1850 candela
Illuminance @ 5m:	74 lx
CRI:	90,9
CCT:	2907 K



### Optical

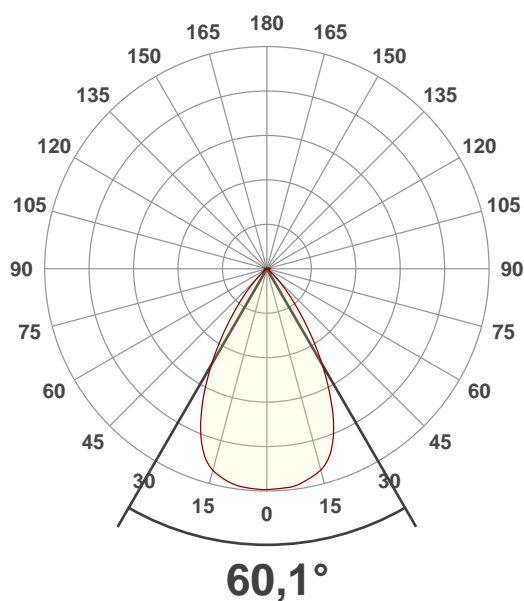
Beam Angle (50%)	60,1 °
Field Angle (10%)	86,8 °

### Conditions:

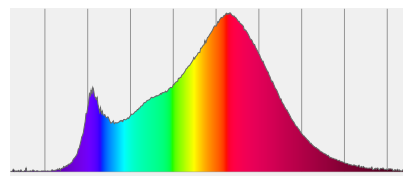
Power Supply:	223 V
Power:	29,7 W
Current:	0,134 A
Power Factor:	0,99

## MEASUREMENTS

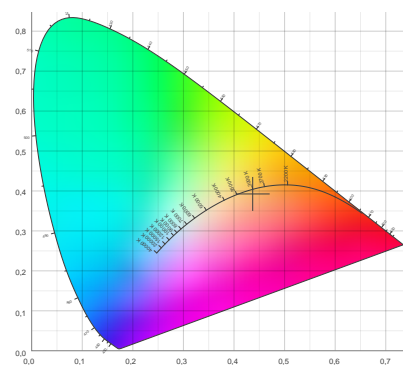
Angular Beam Distribution



Spectral Distribution



CIE 1931

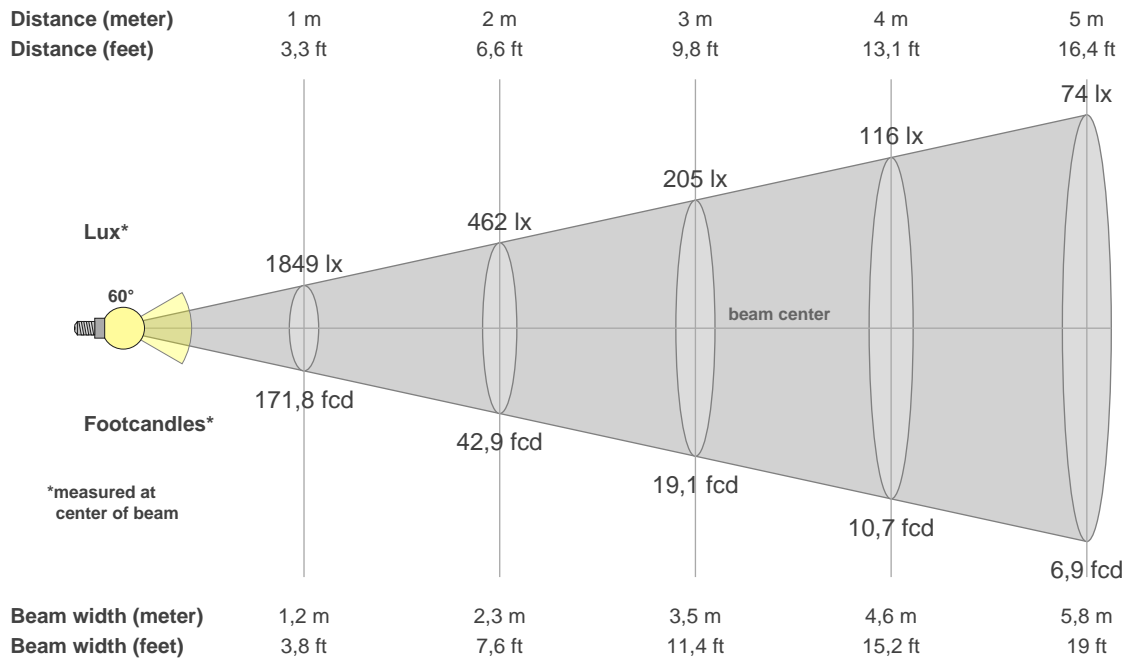


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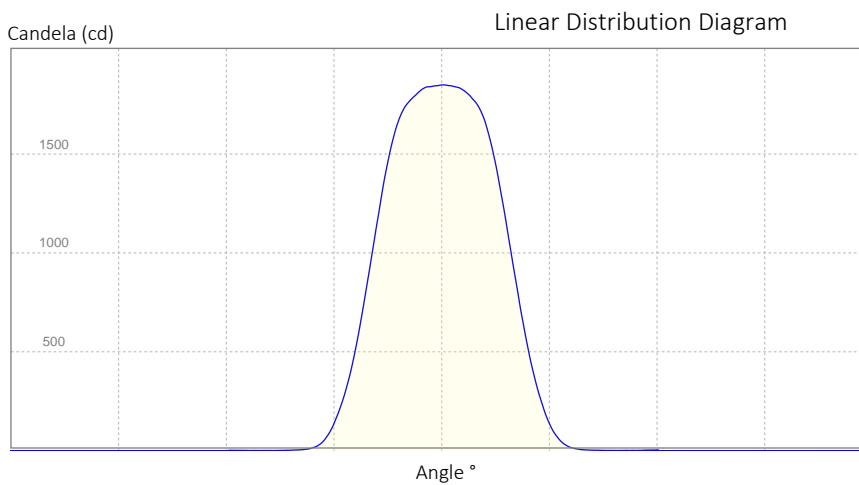
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## BEAM DETAILS



### 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
1849lx	462lx	205lx	116lx	74lx	51lx	38lx	29lx	23lx	18lx	15lx	13lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx	5lx
171,8fcd	42,9fcd	19,1fcd	10,7fcd	6,9fcd	4,8fcd	3,5fcd	2,7fcd	2,1fcd	1,7fcd	1,4fcd	1,2fcd	1fcd	0,9fcd	0,8fcd	0,7fcd	0,6fcd	0,5fcd	0,5fcd	0,4fcd



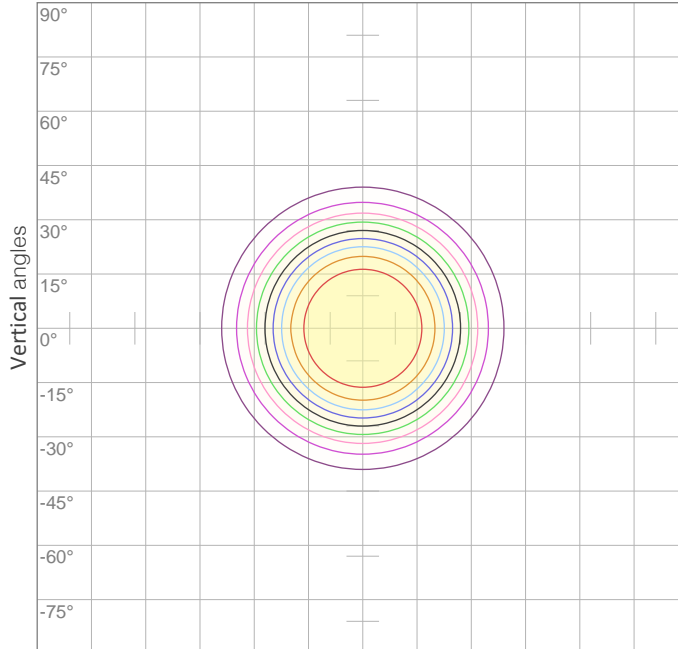
Beam Angle (50%): 60,1 °  
 Field Angle (10%): 86,8 °  
 Cutoff Angle (3%): 99,5 °

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## POLAR DIAGRAMS



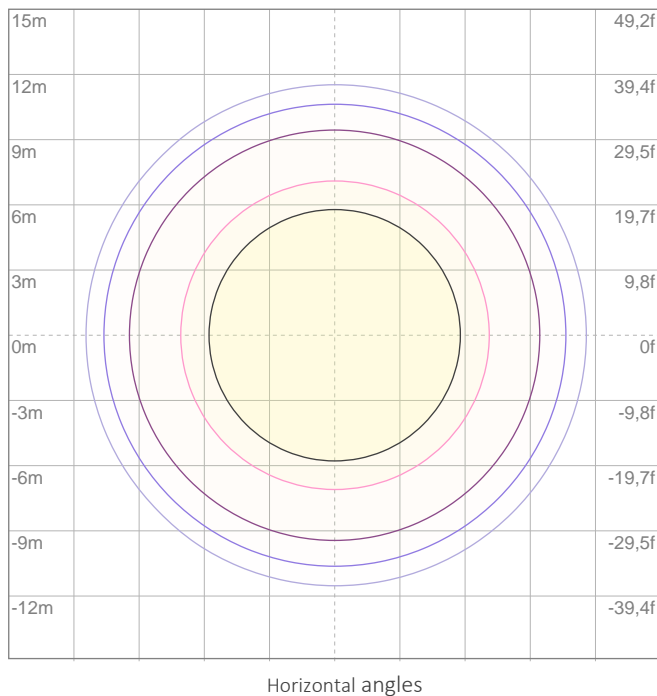
### ISO candela diagram

10%	185 cd
20%	370 cd
30%	555 cd
40%	740 cd
50%	925 cd
60%	1109 cd
70%	1294 cd

#### Conditions:

Number of c-planes: {C\_PLANES}

Candela at center: 1849 cd



### ISO lux diagram

3%	0,555 lx
5%	0,925 lx
10%	1,85 lx
30%	5,55 lx
50%	9,25 lx

#### Conditions:

Number of c-planes: 2

Lux at center: 18,5 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: 1741 lm  
Peak Intensity: 1850 cd  
Fixture Efficiency: 59 Lumen/Watt

Color Temperature: 2907 K  
CRI: 90,9  
CRI R9: 52,7  
CQS: 89,7  
TM-30 Rf: 90,3  
TM-30 Rg: 97,7  
 $\Delta uv$ : -0,0046  
1<sup>st</sup> Dominant Wavelength: 616 nm  
2<sup>nd</sup> Dominant Wavelength: 456 nm



Spectral Distribution



### Color

**2907 K**  
CIE 1931 Coordinates:  
X: 0,437 Y: 0,393

### Color Temperature

**2907 K**

### CRI

**90,9**

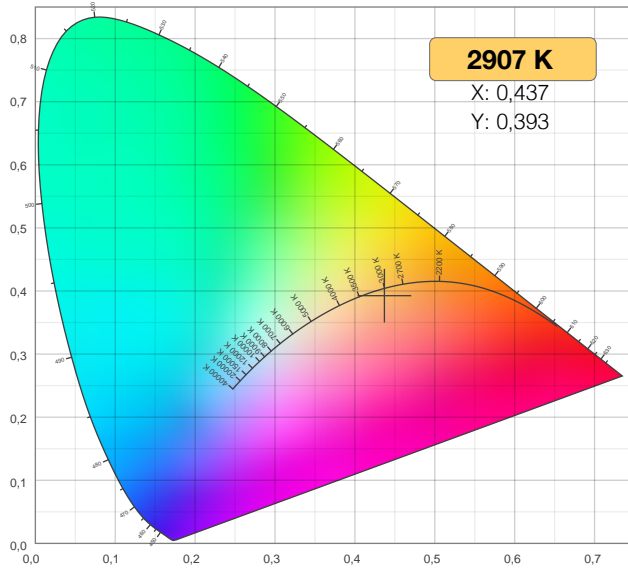
# Photometric Report



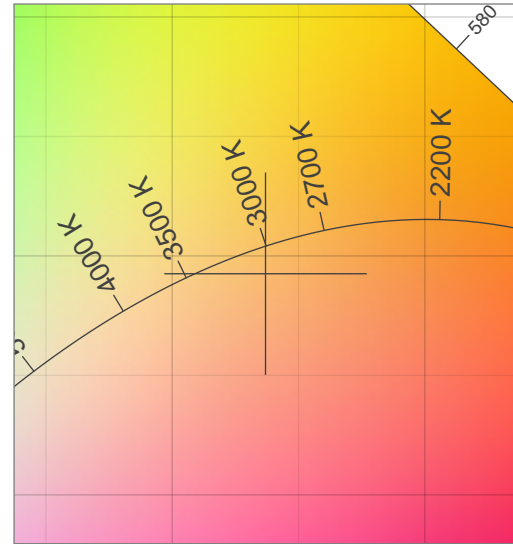
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## CHROMATICITY

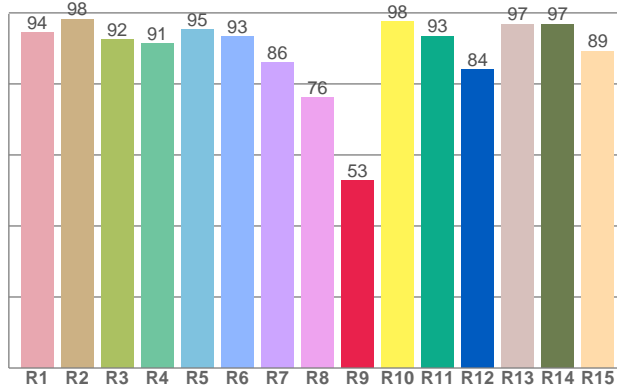
CIE 1931



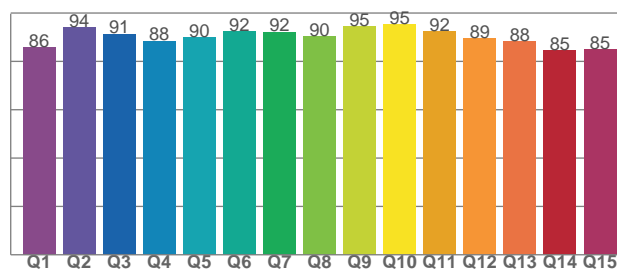
CIE 1931 - Detail



CRI: 90,9 (R1-R8)



CQSI: 89,7



# Photometric Report



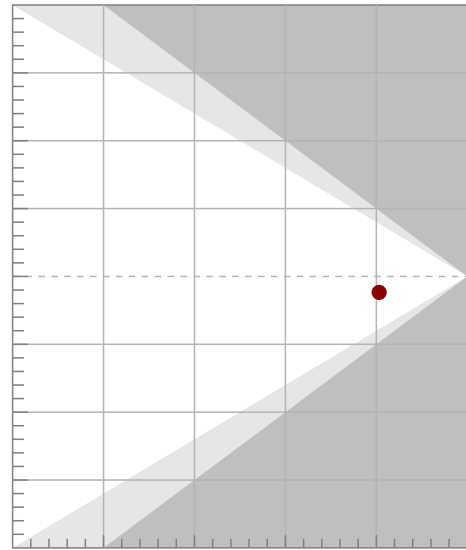
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## TM-30-18 DETAILS

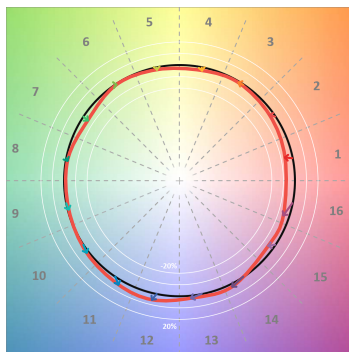
**Rf 90,3**  
Fidelity index Rf

**Rg 97,7**  
Gamut index Rg

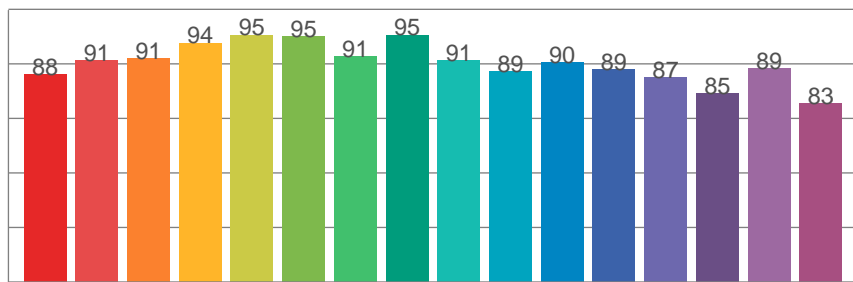
Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	88	-6%	2%
2	91	-3%	4%
3	91	-1%	4%
4	94	-2%	-1%
5	95	-2%	0%
6	95	0%	-1%
7	91	-5%	1%
8	95	-2%	2%
9	91	-1%	6%
10	89	1%	7%
11	90	4%	6%
12	89	6%	-3%
13	87	2%	-10%
14	85	2%	-13%
15	89	-4%	-4%
16	83	-6%	-12%



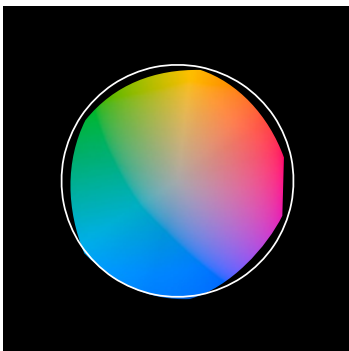
TM30-18 Color Vectors



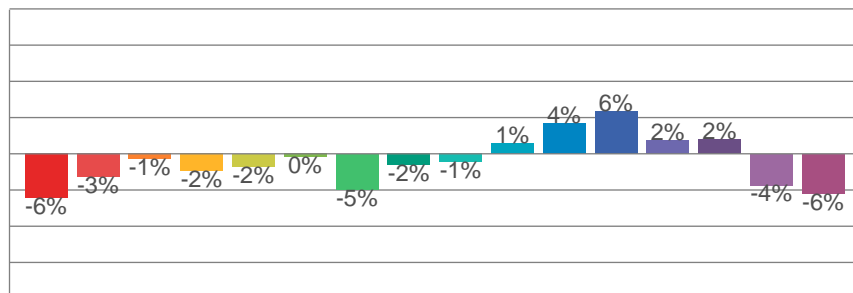
Rf by Hue Bin



TM30 Color Distortion



TM30 Chroma Shift



TM30 Color Fidelity Sample Chart

