

# Photometric Report

SAM0904920005 Track light 30W (WW), , Ordercode

## REPORT SUMMARY

### Output

Total Lumens:	2030 Lumen
Peak Intensity:	3635 candela
Illuminance @ 5m:	145 lx
CRI:	91,9
CCT:	2737 K

### Optical

Beam Angle (50%)	38,9 °
Field Angle (10%)	70,7 °

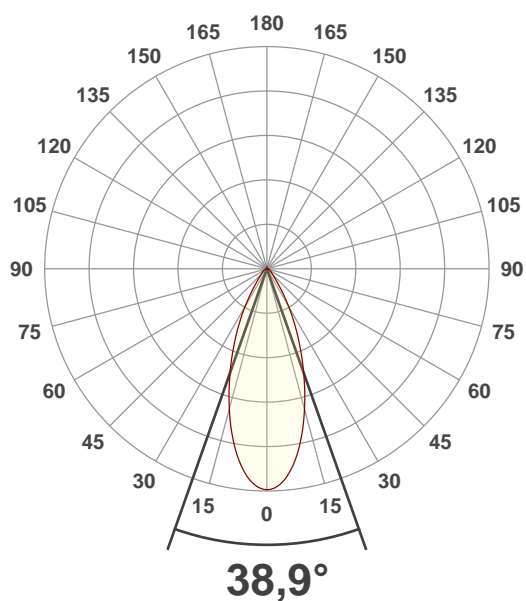
### Conditions:

Power Supply:	223 V
Power:	30,7 W
Current:	0,139 A
Power Factor:	0,99

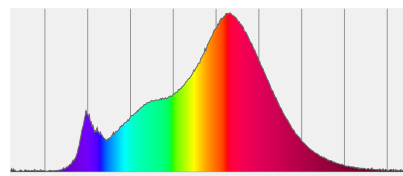


## MEASUREMENTS

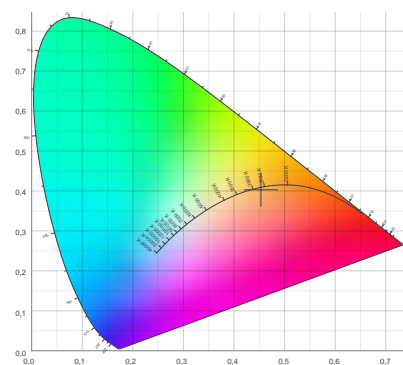
Angular Beam Distribution



Spectral Distribution



CIE 1931

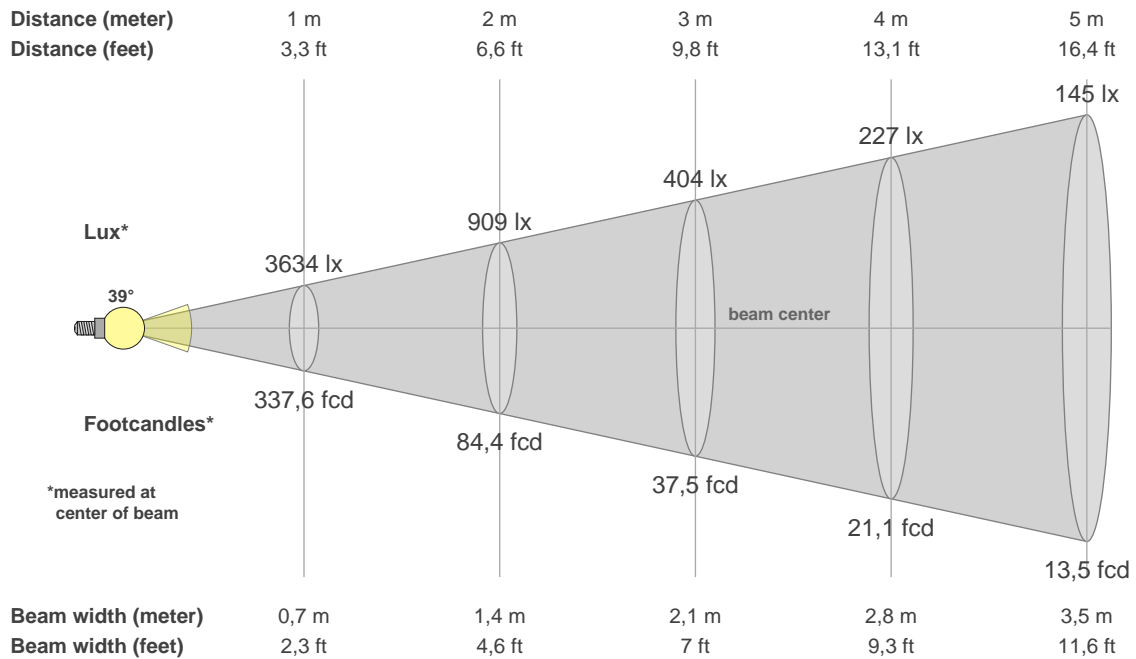


# Photometric Report



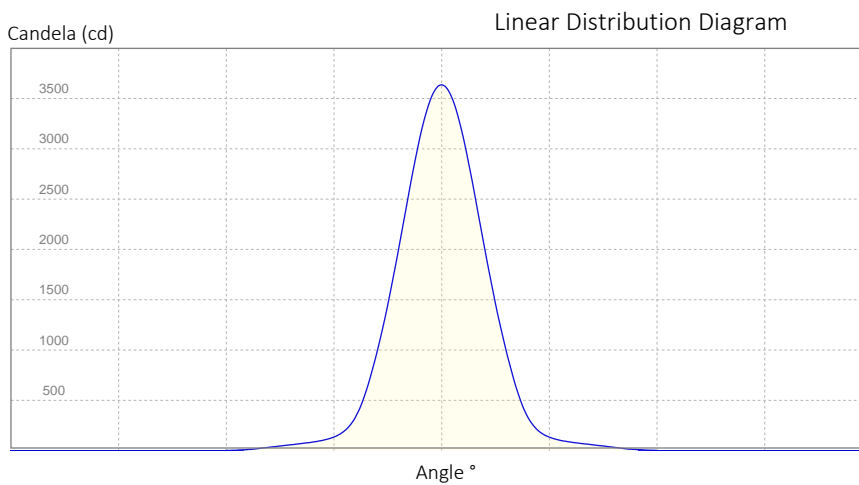
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## BEAM DETAILS



### 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
3634lx	909lx	404lx	227lx	145lx	101lx	74lx	57lx	45lx	36lx	30lx	25lx	22lx	19lx	16lx	14lx	13lx	11lx	10lx	9lx
337,6fcd	84,4fcd	37,5fcd	21,1fcd	13,5fcd	9,4fcd	6,9fcd	5,3fcd	4,2fcd	3,4fcd	2,8fcd	2,3fcd	2fcd	1,7fcd	1,5fcd	1,3fcd	1,2fcd	1fcd	0,9fcd	0,8fcd



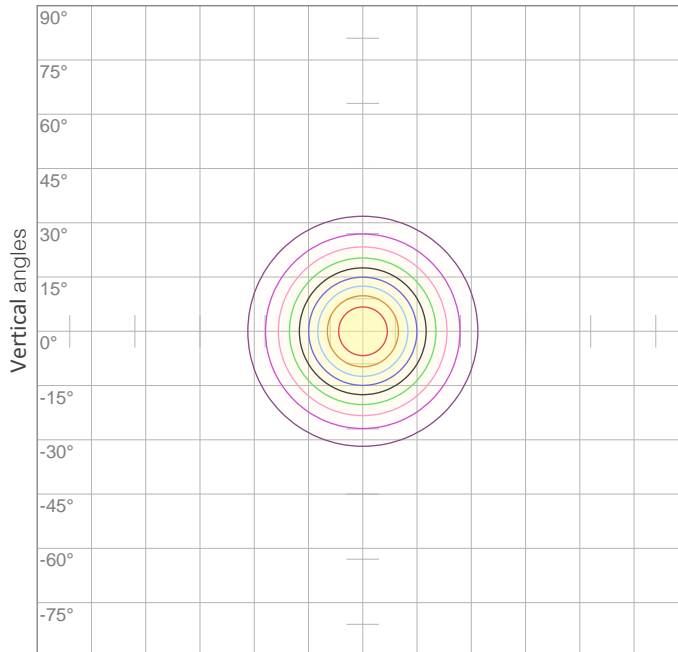
Beam Angle (50%): 38,9 °  
 Field Angle (10%): 70,7 °  
 Cutoff Angle (3%): 104,7 °

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## POLAR DIAGRAMS



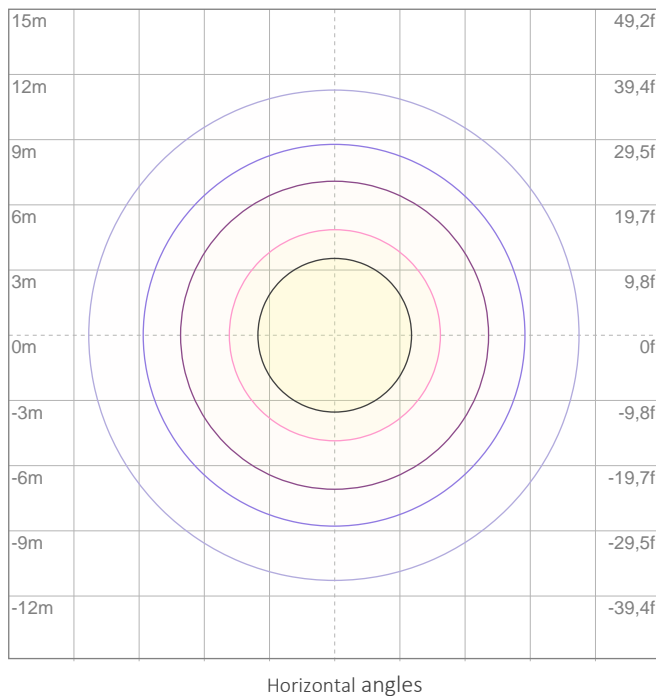
### ISO candela diagram

10%	363 cd
20%	727 cd
30%	1090 cd
40%	1454 cd
50%	1817 cd
60%	2180 cd
70%	2544 cd

Conditions:

Number of c-planes: {C\_PLANES}

Candela at center: 3634 cd



### ISO lux diagram

3%	1,09 lx
5%	1,82 lx
10%	3,63 lx
30%	10,9 lx
50%	18,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 36,3 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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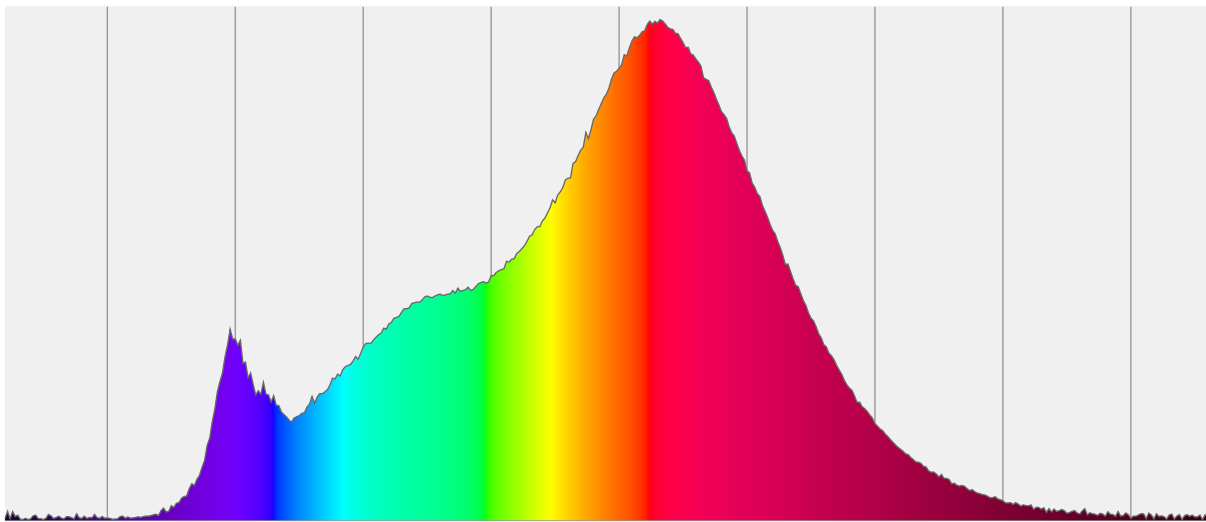
## CHROMATICITY REPORT

Total Lumens: 2030 lm  
Peak Intensity: 3635 cd  
Fixture Efficiency: 66 Lumen/Watt

Color Temperature: 2737 K  
CRI: 91,9  
CRI R9: 49,1  
CQS: 90,8  
TM-30 Rf: 92,3  
TM-30 Rg: 98,7  
 $\Delta uv$ : -0,0023  
1<sup>st</sup> Dominant Wavelength: 616 nm  
2<sup>nd</sup> Dominant Wavelength: 448 nm



Spectral Distribution



### Color

**2737 K**  
CIE 1931 Coordinates:  
X: 0,453 Y: 0,403

### Color Temperature

**2737 K**

### CRI

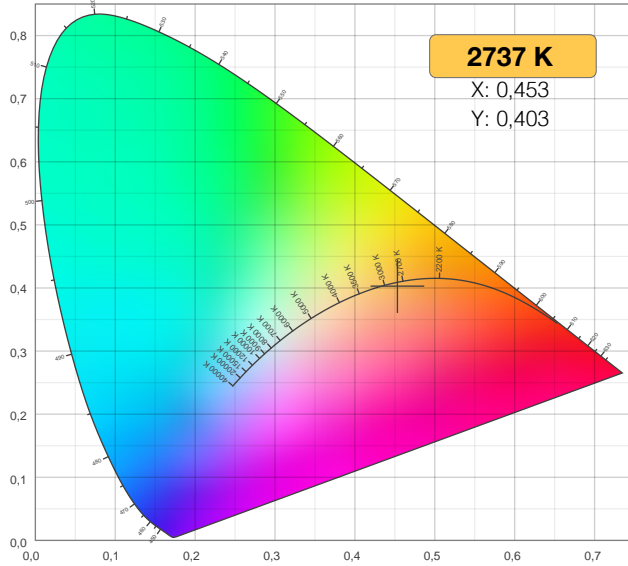
**91,9**

# Photometric Report

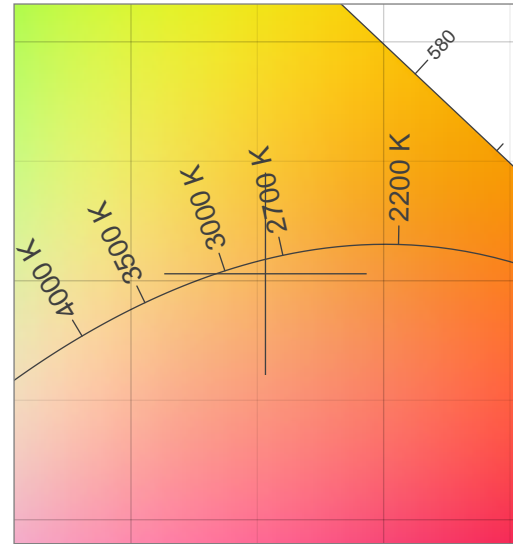
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## CHROMATICITY

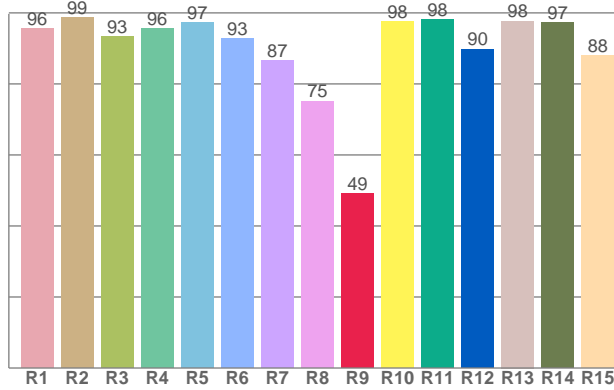
CIE 1931



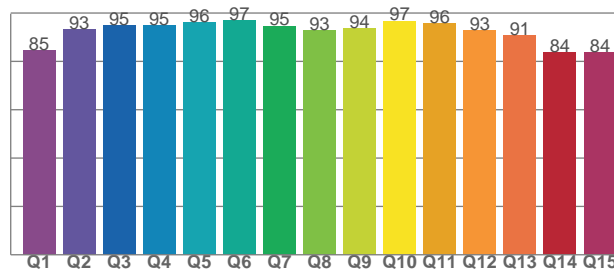
CIE 1931 - Detail



CRI: 91,9 (R1-R8)



CQSI: 90,8



# Photometric Report



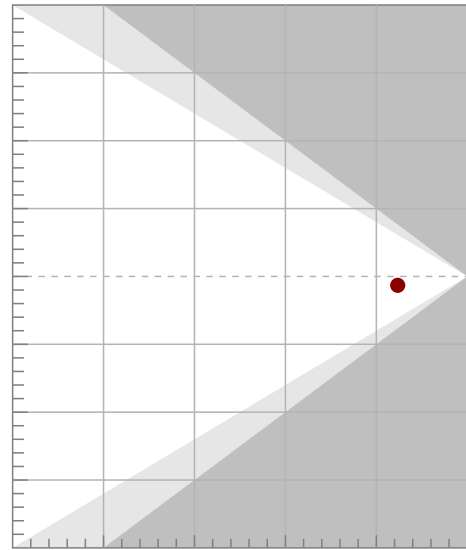
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## TM-30-18 DETAILS

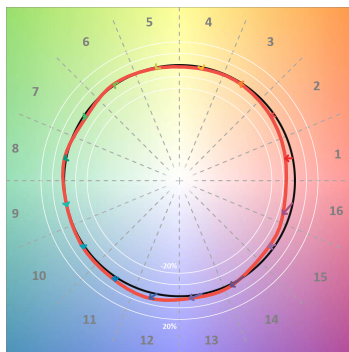
**Rf 92,3**  
Fidelity index Rf

**Rg 98,7**  
Gamut index Rg

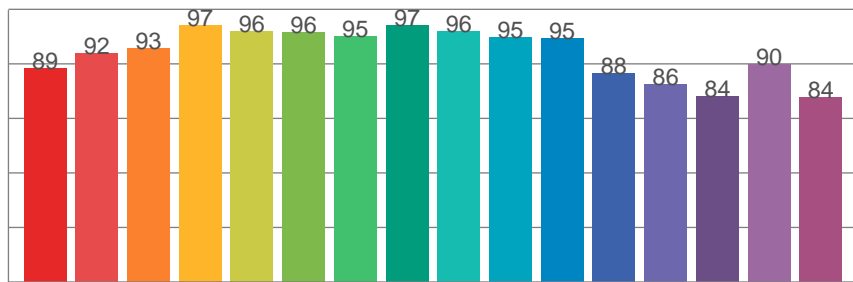
Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	89	-6%	1%
2	92	-3%	3%
3	93	-1%	4%
4	97	-1%	-1%
5	96	-1%	1%
6	96	1%	1%
7	95	-2%	-1%
8	97	1%	1%
9	96	0%	2%
10	95	2%	3%
11	95	3%	2%
12	88	5%	-5%
13	86	2%	-11%
14	84	1%	-14%
15	90	-4%	-5%
16	84	-6%	-11%



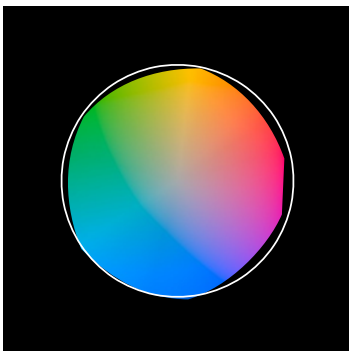
TM30-18 Color Vectors



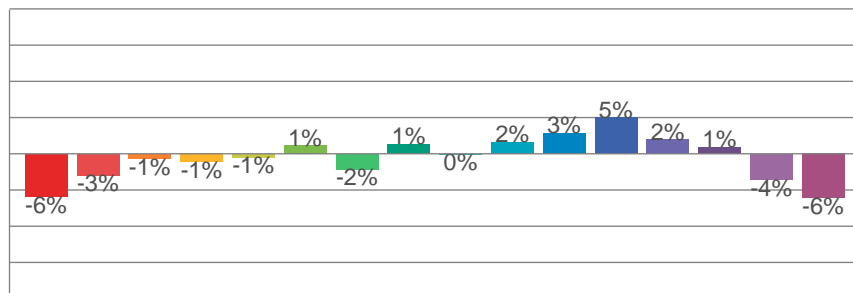
Rf by Hue Bin



TM30 Color Distortion



TM30 Chroma Shift



TM30 Color Fidelity Sample Chart

