

# Photometric Report

SAM0904920004 Track light 15W (CW), , Ordercode

## REPORT SUMMARY

### Output

Total Lumens:	1079 Lumen
Peak Intensity:	2151 candela
Illuminance @ 5m:	86 lx
CRI:	94,0
CCT:	6684 K



### Optical

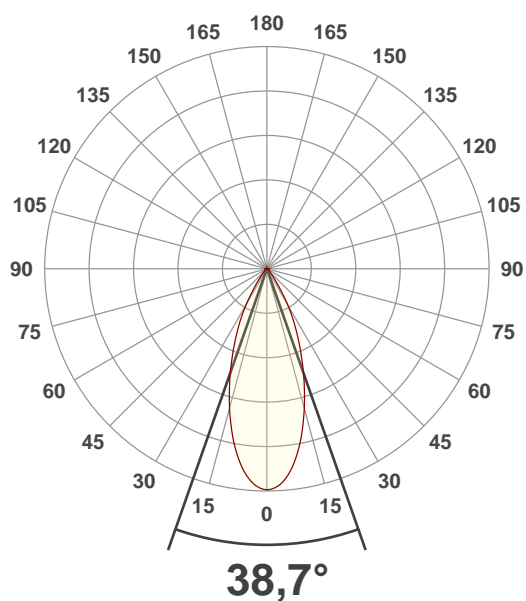
Beam Angle (50%)	38,7 °
Field Angle (10%)	67,5 °

### Conditions:

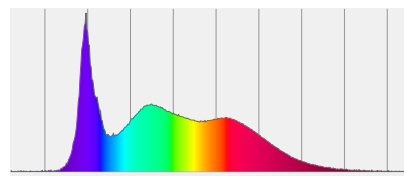
Power Supply:	223 V
Power:	14,1 W
Current:	0,067 A
Power Factor:	0,94

## MEASUREMENTS

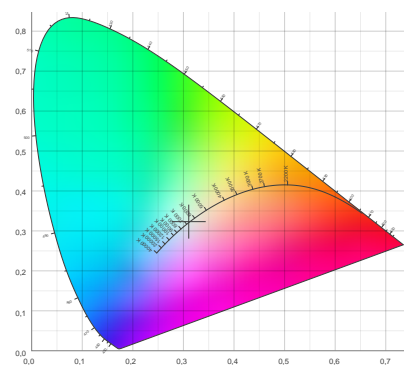
Angular Beam Distribution



Spectral Distribution



CIE 1931

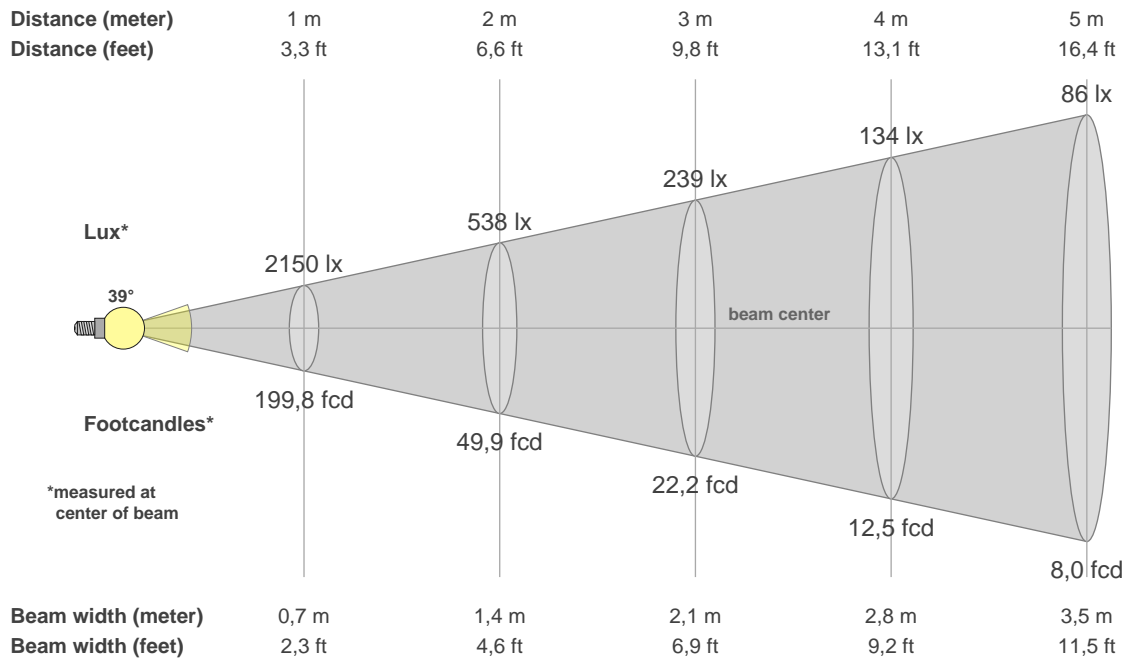


# Photometric Report



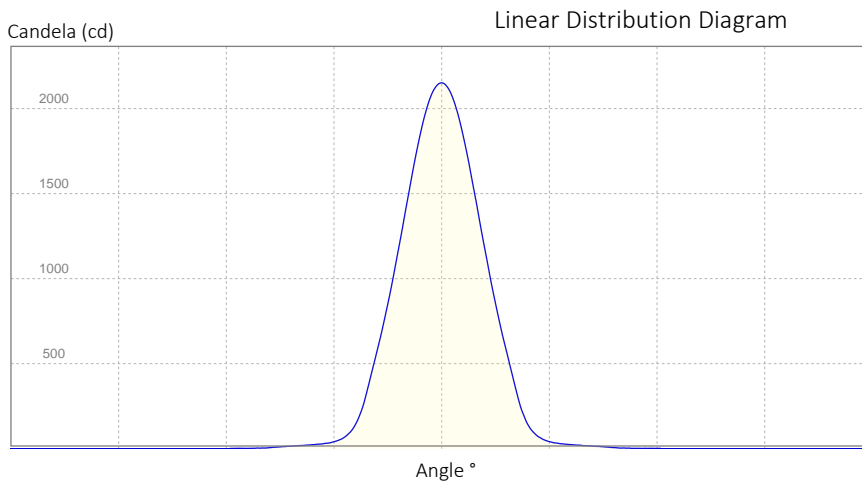
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## BEAM DETAILS



### 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
<b>2150lx</b>	<b>538lx</b>	<b>239lx</b>	<b>134lx</b>	<b>86lx</b>	<b>60lx</b>	<b>44lx</b>	<b>34lx</b>	<b>27lx</b>	<b>22lx</b>	<b>18lx</b>	<b>15lx</b>	<b>13lx</b>	<b>11lx</b>	<b>10lx</b>	<b>8lx</b>	<b>7lx</b>	<b>7lx</b>	<b>6lx</b>	<b>5lx</b>
199,8fcd	49,9fcd	22,2fcd	12,5fcd	8fcd	5,5fcd	4,1fcd	3,1fcd	2,5fcd	2fcd	1,7fcd	1,4fcd	1,2fcd	1fcd	0,9fcd	0,8fcd	0,7fcd	0,6fcd	0,6fcd	0,5fcd

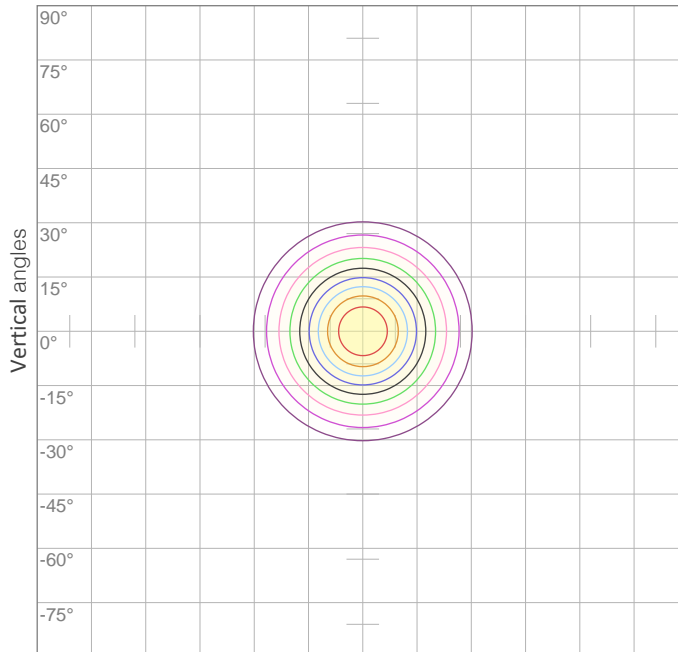


Beam Angle (50%): 38,7 °  
 Field Angle (10%): 67,5 °  
 Cutoff Angle (3%): 84,9 °

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## POLAR DIAGRAMS



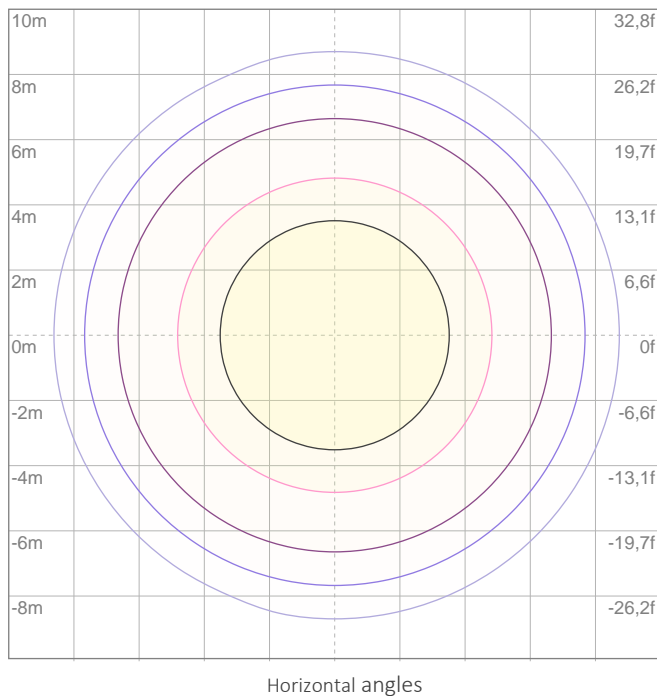
### ISO candela diagram

10%	215 cd
20%	430 cd
30%	645 cd
40%	860 cd
50%	1075 cd
60%	1290 cd
70%	1505 cd

Conditions:

Number of c-planes: {C\_PLANES}

Candela at center: 2150 cd



### ISO lux diagram

3%	0,645 lx
5%	1,08 lx
10%	2,15 lx
30%	6,45 lx
50%	10,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 21,5 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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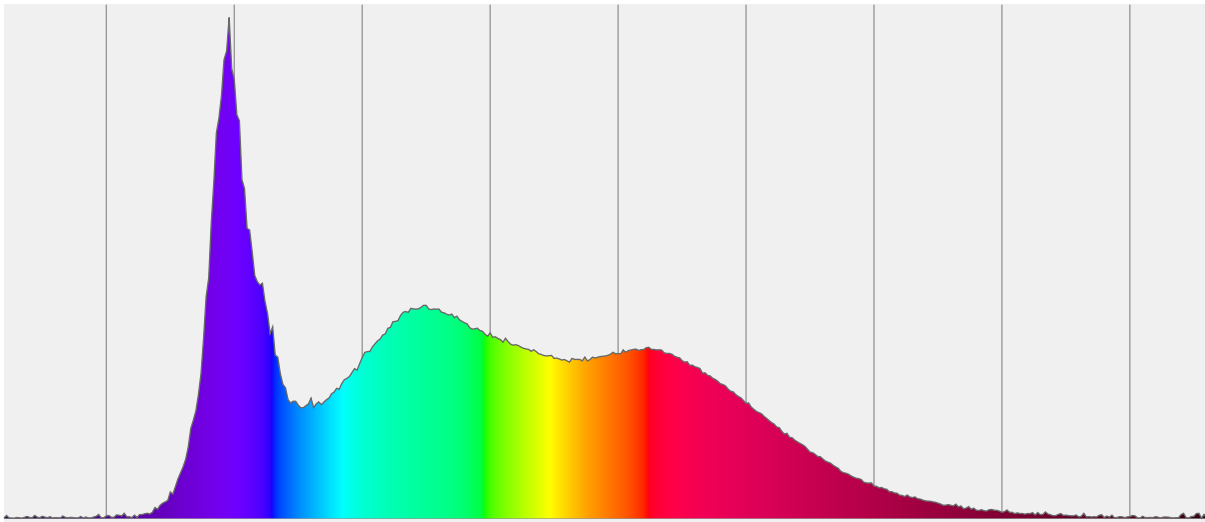
## CHROMATICITY REPORT

Total Lumens: 1079 lm  
Peak Intensity: 2151 cd  
Fixture Efficiency: 77 Lumen/Watt

Color Temperature: 6684 K  
CRI: 94,0  
CRI R9: 81,8  
CQS: 92,5  
TM-30 Rf: 91,2  
TM-30 Rg: 101,9  
 $\Delta uv$ : 0,0019  
1<sup>st</sup> Dominant Wavelength: 448 nm  
2<sup>nd</sup> Dominant Wavelength: 524 nm



Spectral Distribution



### Color

**6684 K**  
CIE 1931 Coordinates:  
X: 0,310 Y: 0,323

### Color Temperature

**6684 K**

### CRI

**94,0**

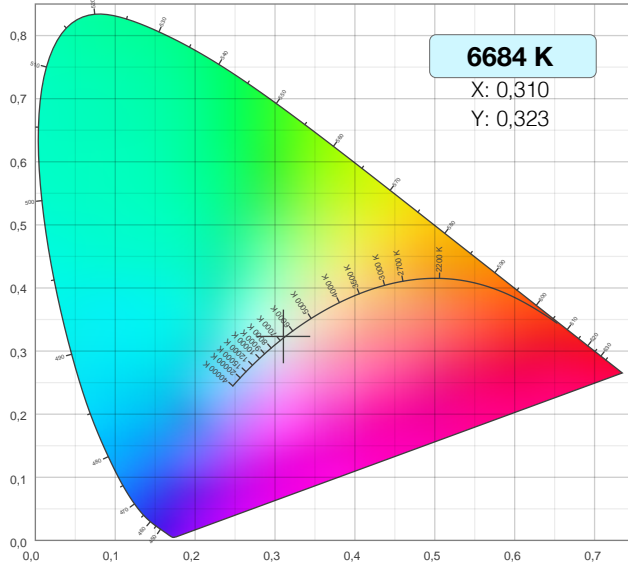
# Photometric Report



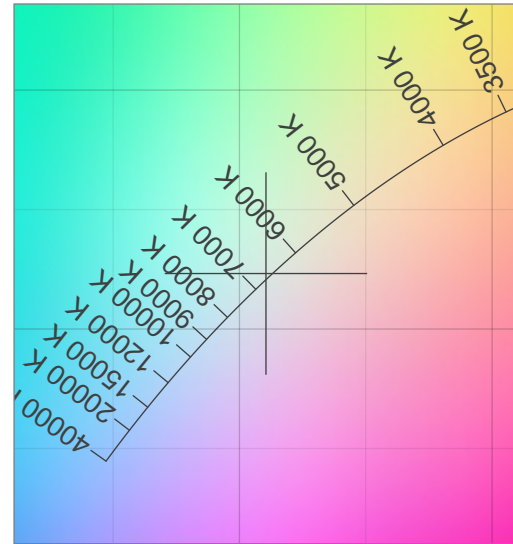
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## CHROMATICITY

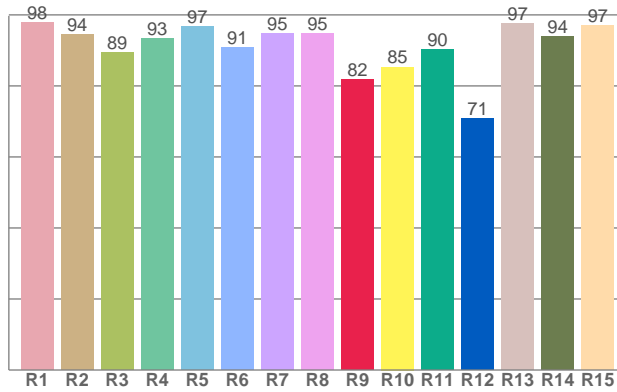
CIE 1931



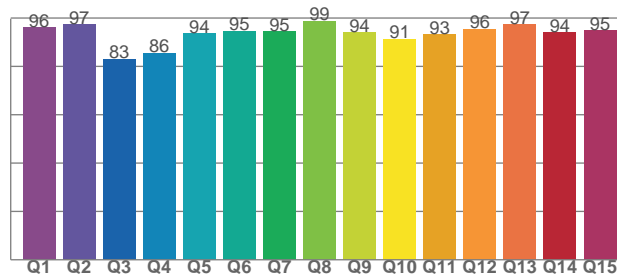
CIE 1931 - Detail



CRI: 94,0 (R1-R8)



CQSI: 92,5



# Photometric Report



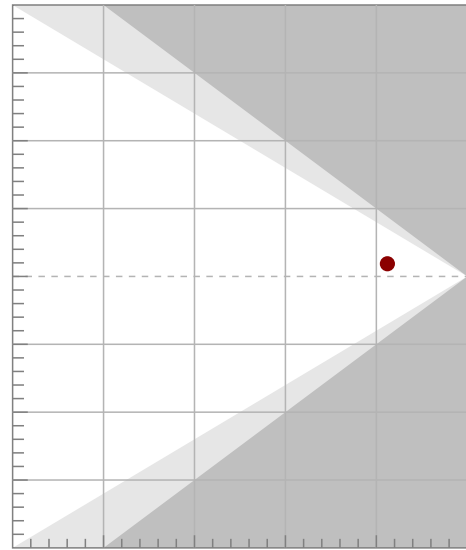
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## TM-30-18 DETAILS

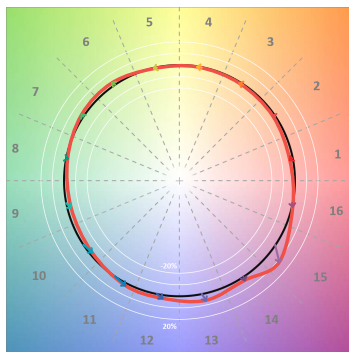
**Rf 91,2**  
Fidelity index Rf

**Rg 101,9**  
Gamut index Rg

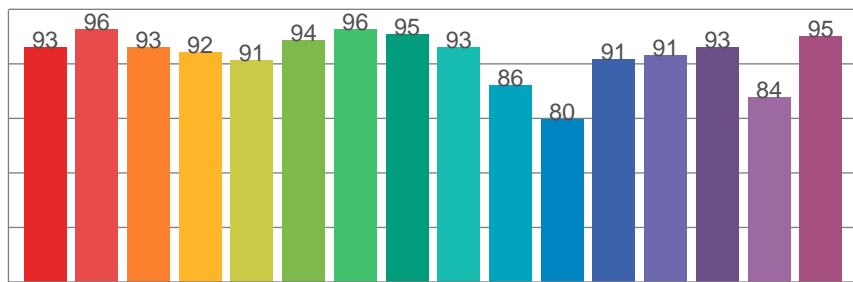
Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	93	-2%	-1%
2	96	-1%	1%
3	93	-1%	3%
4	92	0%	4%
5	91	0%	2%
6	94	3%	1%
7	96	2%	-1%
8	95	-1%	0%
9	93	-3%	5%
10	86	-3%	10%
11	80	2%	11%
12	91	3%	6%
13	91	6%	2%
14	93	3%	-1%
15	84	11%	-10%
16	95	1%	-3%



TM30-18 Color Vectors



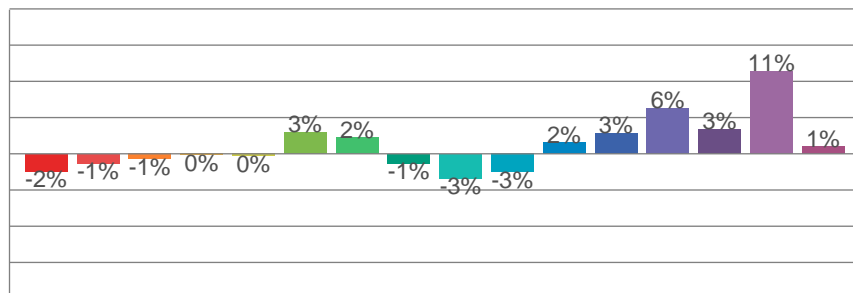
Rf by Hue Bin



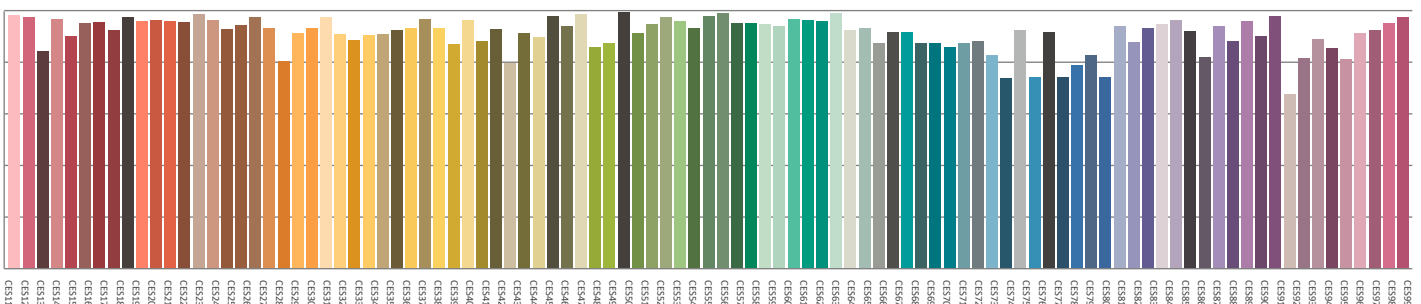
TM30 Color Distortion



TM30 Chroma Shift



TM30 Color Fidelity Sample Chart



All product specifications, measurements, values and dimensions are subject to change without prior notice