

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 °

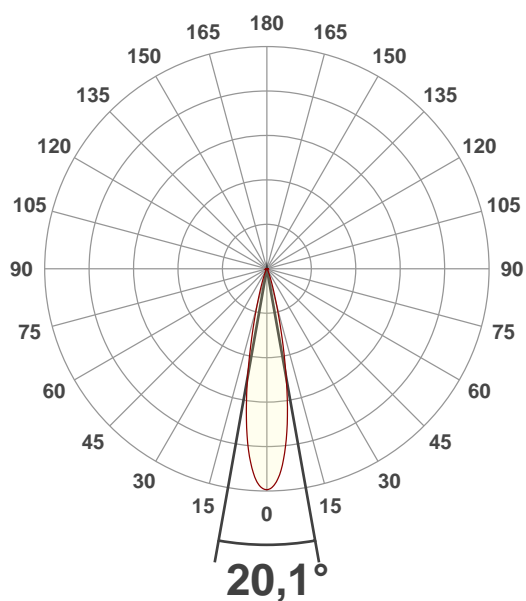
Conditions:

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

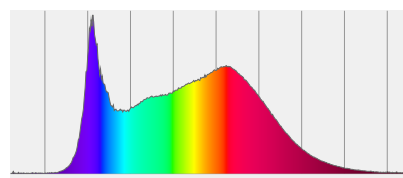


MEASUREMENTS

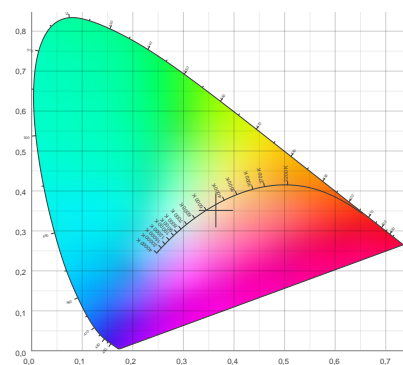
Angular Beam Distribution



Spectral Distribution



CIE 1931

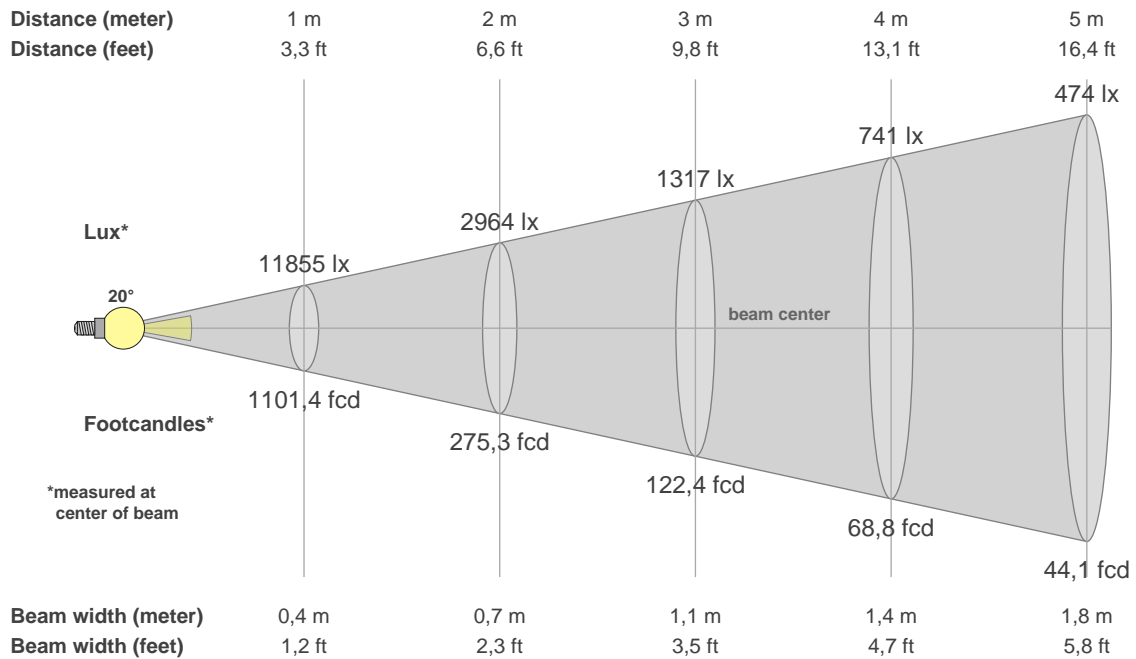


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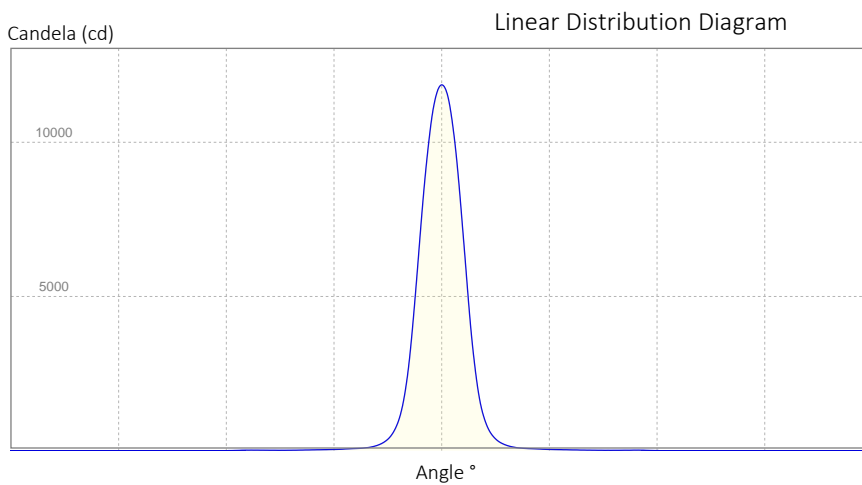
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BEAM DETAILS



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
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



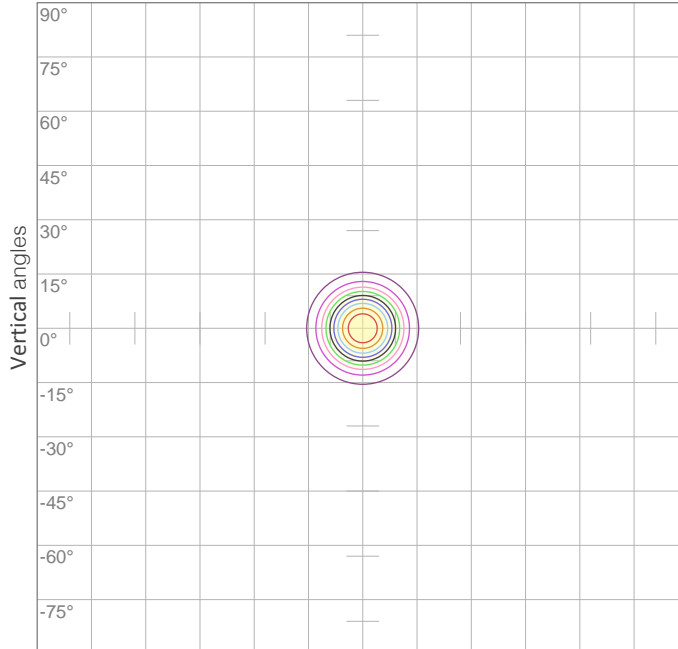
Beam Angle (50%): 20,1 °
 Field Angle (10%): 34,5 °
 Cutoff Angle (3%): 47,5 °

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POLAR DIAGRAMS



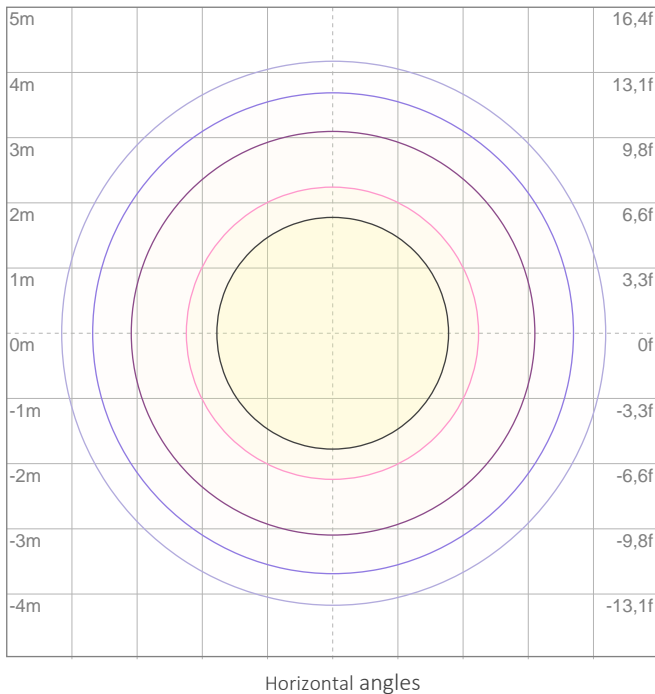
ISO candela diagram

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)

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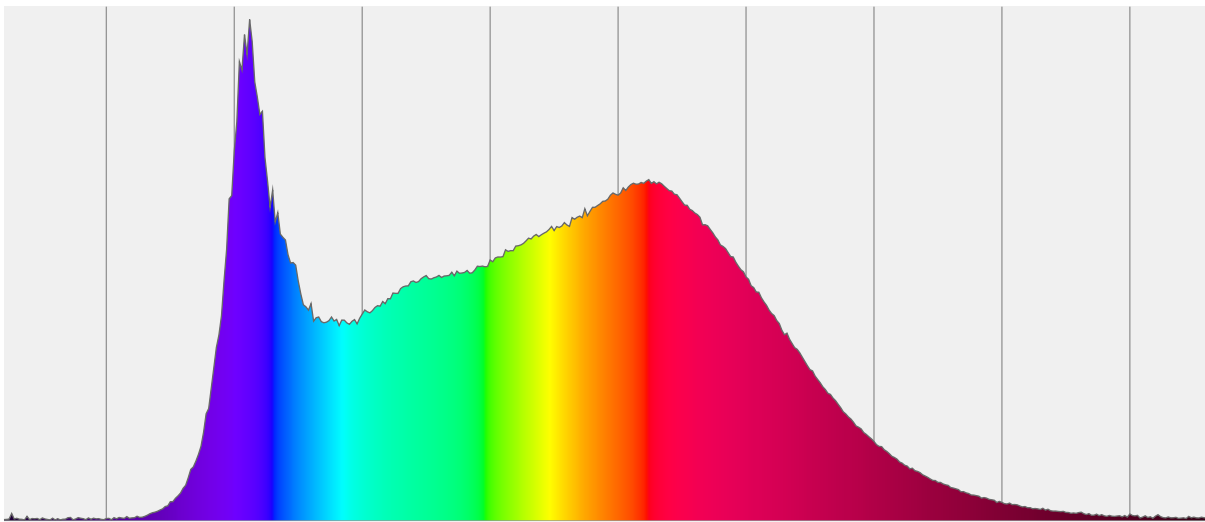
CHROMATICITY REPORT

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
 Δuv : -0,0073
1st Dominant Wavelength: 456 nm
2nd Dominant Wavelength: 612 nm



Spectral Distribution



Color

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

Color Temperature

4315 K

CRI

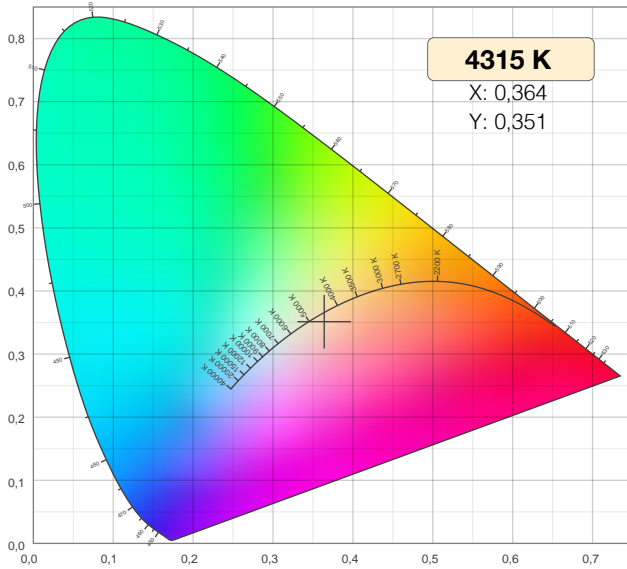
92,5

Photometric Report

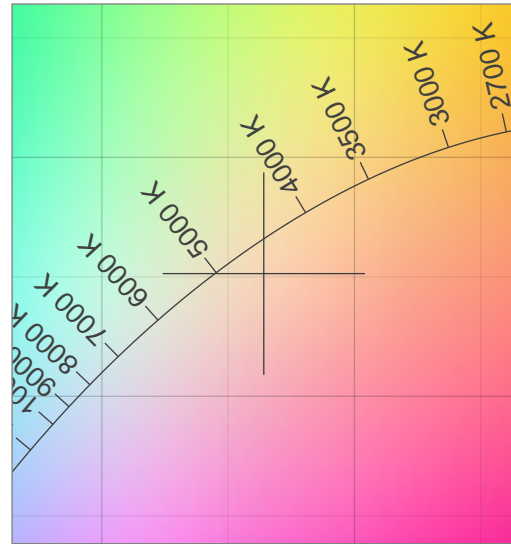
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CHROMATICITY

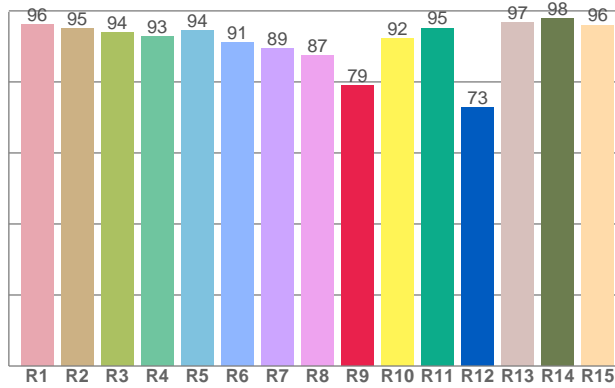
CIE 1931



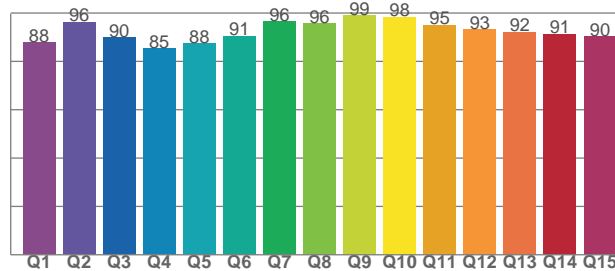
CIE 1931 - Detail



CRI: 92,5 (R1-R8)



CQSI: 91,6



Photometric Report



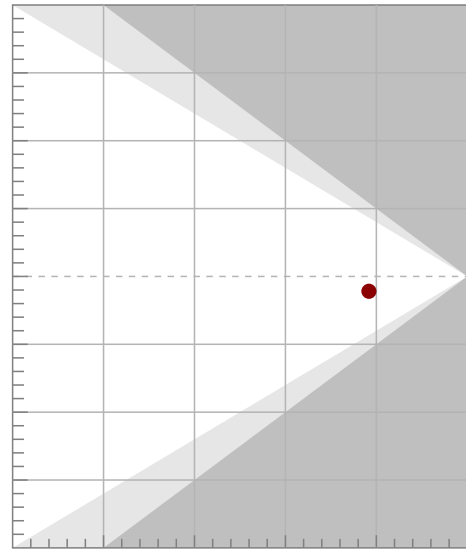
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TM-30-18 DETAILS

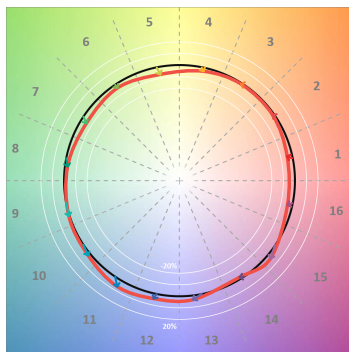
Rf 89,2
Fidelity index Rf

Rg 97,8
Gamut index Rg

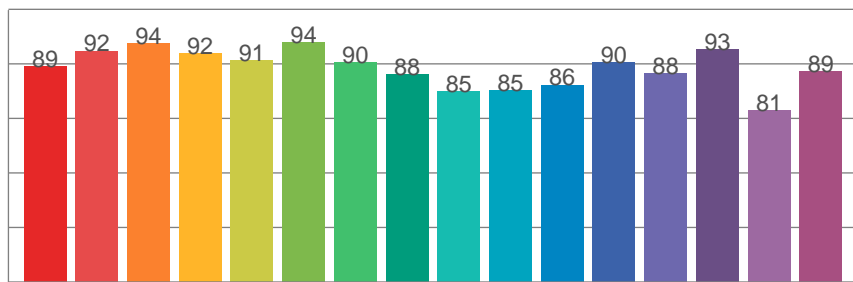
Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	89	-4%	2%
2	92	-1%	2%
3	94	-1%	2%
4	92	-3%	-2%
5	91	-6%	-2%
6	94	-3%	0%
7	90	-5%	3%
8	88	-3%	7%
9	85	0%	11%
10	85	2%	10%
11	86	6%	6%
12	90	5%	-2%
13	88	4%	-8%
14	93	-1%	-3%
15	81	3%	-12%
16	89	-4%	-2%



TM30-18 Color Vectors



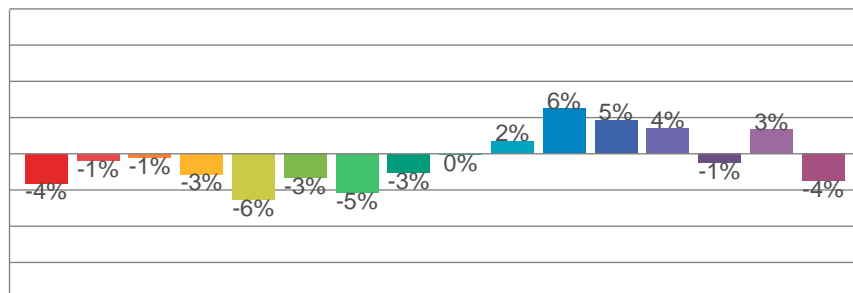
Rf by Hue Bin



TM30 Color Distortion



TM30 Chroma Shift



TM30 Color Fidelity Sample Chart

