

Photometric Report

45032 - Shark Beam One, , Ordercode 45032



REPORT SUMMARY

Output

Total Lumens: 1743 Lumen
Peak Intensity: 686315 candela
Illuminance @ 5m: 24864 lx
CRI: 74,7
CCT: 9807 K

Optical

Beam Angle (50%) 2,7 °
Field Angle (10%) 3,8 °

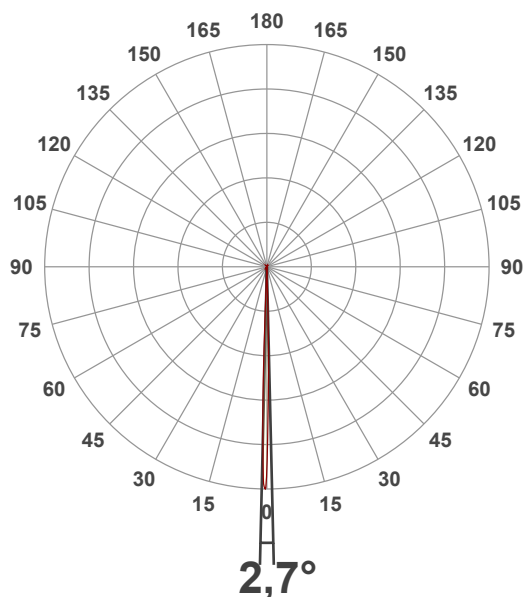
Conditions:

Power Supply: 222 V
Power: 135,1 W
Current: 0,633 A
Power Factor: 0,96

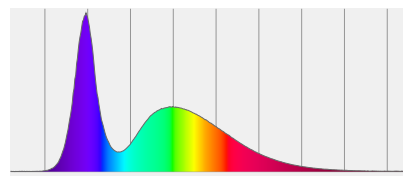


MEASUREMENTS

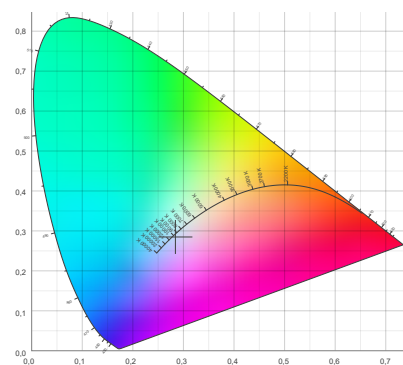
Angular Beam Distribution



Spectral Distribution



CIE 1931

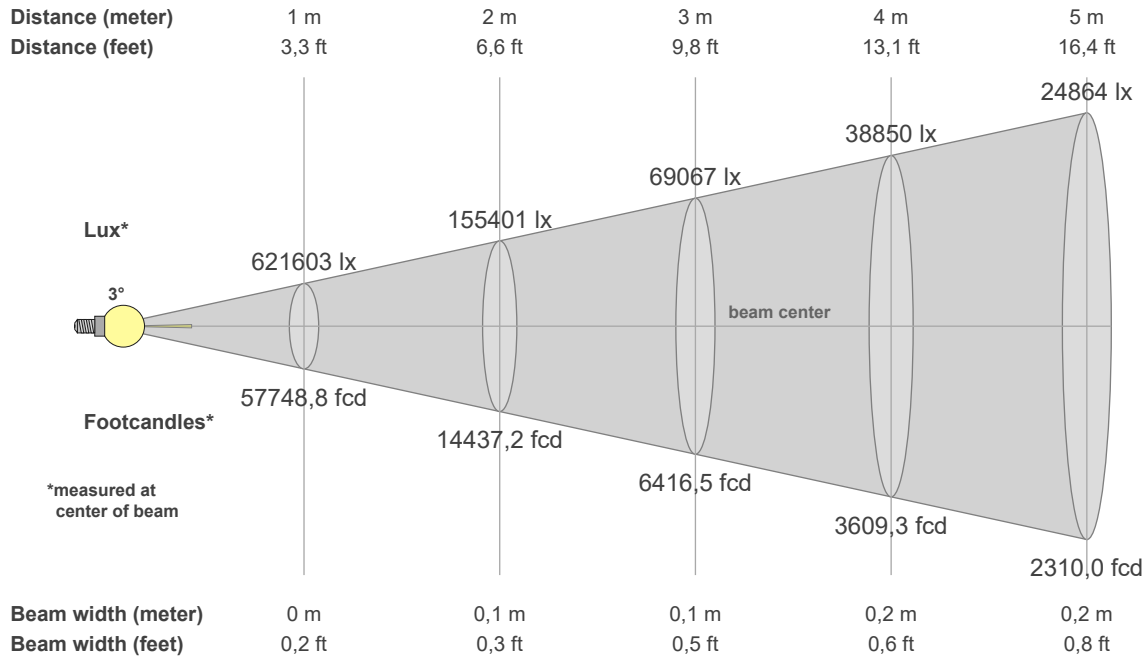


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BEAM DETAILS

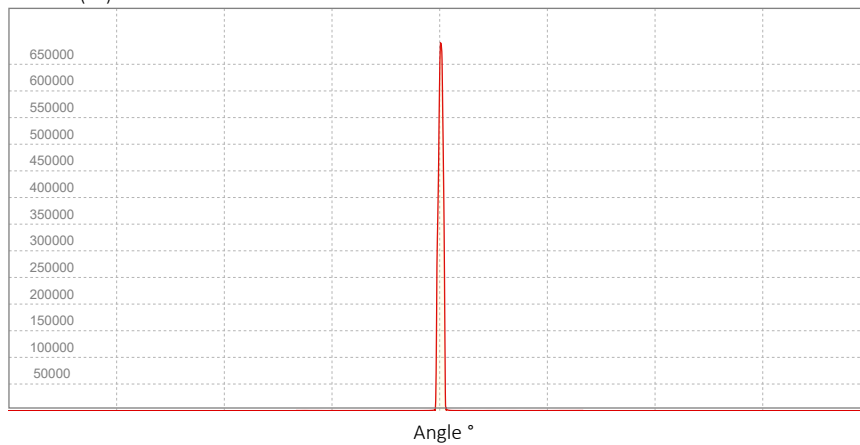


Beam Illuminances from 1-20m

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
621603lx	155401lx	69067lx	38850lx	24864lx	17267lx	12686lx	9713lx	7674lx	6216lx	5137lx	4317lx	3678lx	3171lx	2763lx	2428lx	2151lx	1919lx	1722lx	1554lx
57748,8fcd	14437,2fcd	6416,5fcd	3609,3fcd	2310fcd	1604,1fcd	1178,5fcd	902,3fcd	712,9fcd	577,5fcd	477,3fcd	401fcd	341,7fcd	294,6fcd	256,7fcd	225,6fcd	199,8fcd	178,2fcd	160fcd	144,4fcd

Candela (cd)

Linear Distribution Diagram



Beam Angle (50%): 2,7 °

Field Angle (10%): 3,8 °

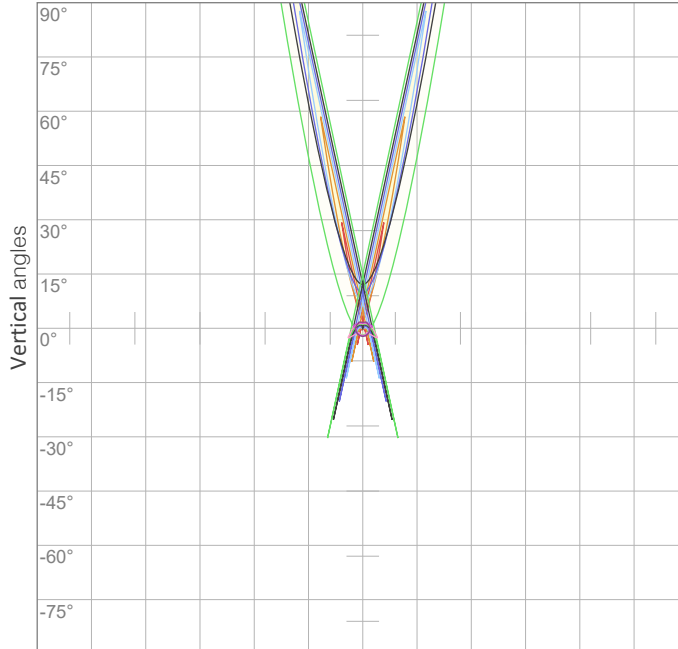
Cutoff Angle (3%): 4,3 °

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POLAR DIAGRAMS



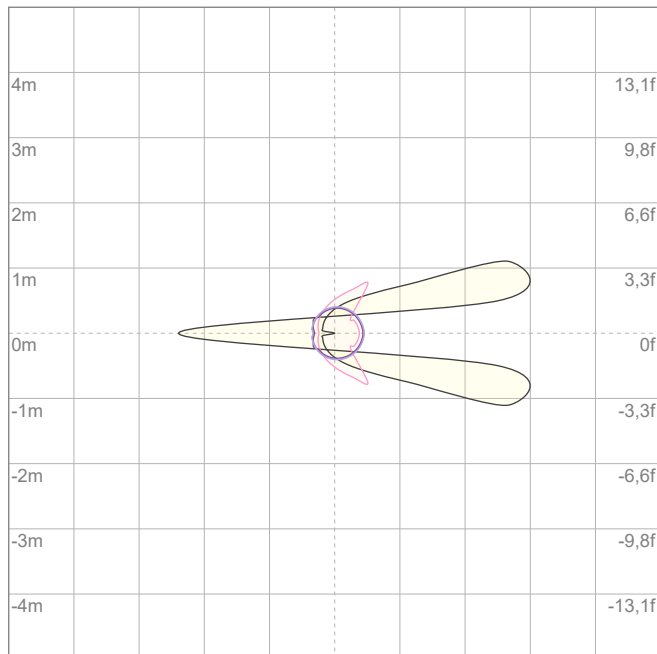
ISO candela diagram

10%	62160 cd
20%	124321 cd
30%	186481 cd
40%	248641 cd
50%	310802 cd
60%	372962 cd
70%	435122 cd

Conditions:

Number of c-planes: {C_PLANES}

Candela at center: 621603 cd



ISO lux diagram

3%	186 lx
5%	311 lx
10%	622 lx
30%	1865 lx
50%	3108 lx

Conditions:

Number of c-planes: 2

Lux at center: 6216 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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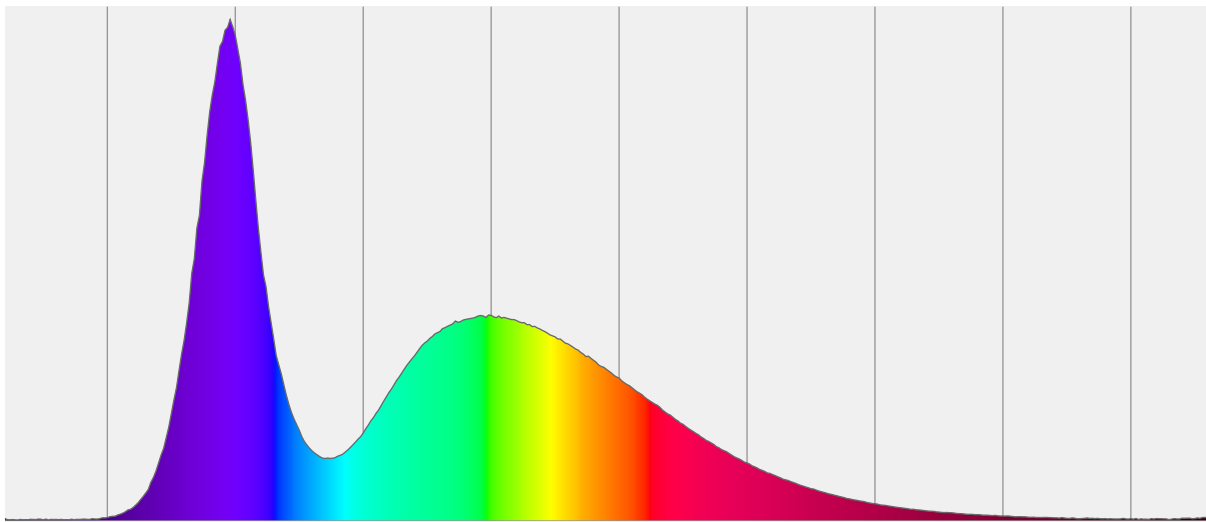
CHROMATICITY REPORT

Total Lumens: 1743 lm
Peak Intensity: 686315 cd
Fixture Efficiency: 13 Lumen/Watt

Color Temperature: 9807 K
CRI: 74,7
CRI R9: -1,2
CQS: 69,6
TM-30 Rf: 72,0
TM-30 Rg: 94,9
 Δuv : -0,0072
1st Dominant Wavelength: 448 nm
2nd Dominant Wavelength: 549 nm



Spectral Distribution



Color

9807 K
CIE 1931 Coordinates:
X: 0,284 Y: 0,285

Color Temperature

9807 K

CRI

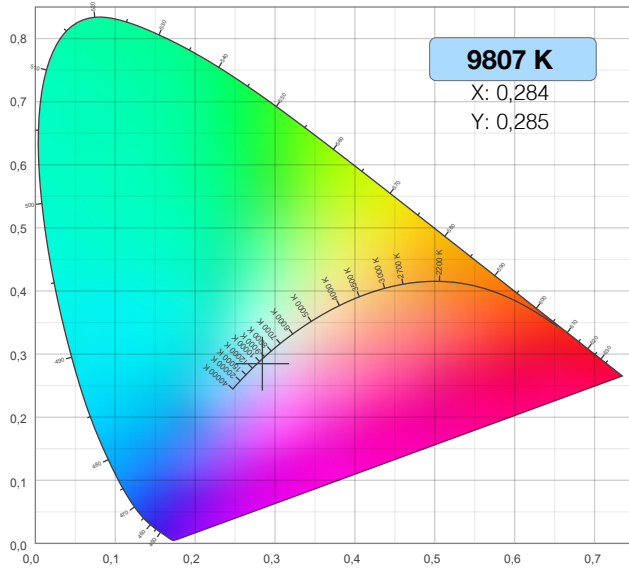
74,7

Photometric Report

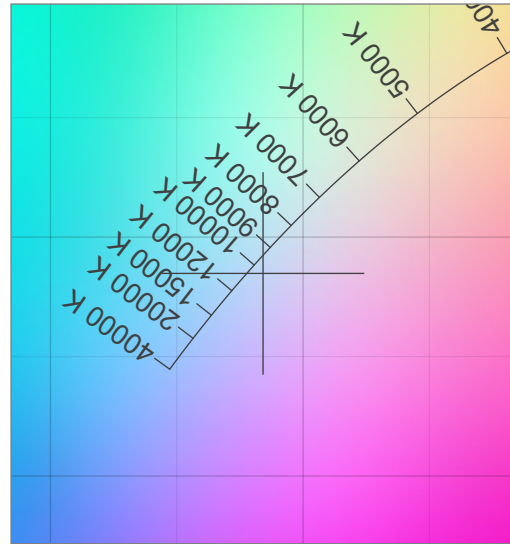
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CHROMATICITY

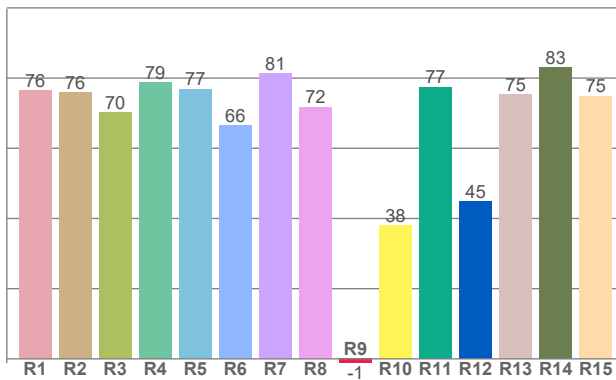
CIE 1931



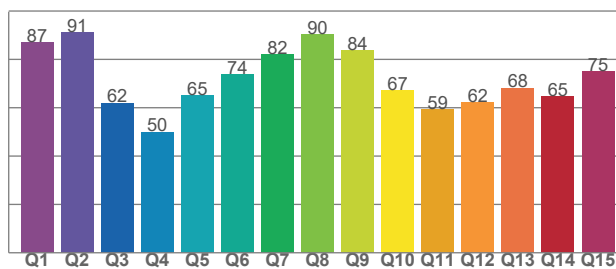
CIE 1931 - Detail



CRI: 74,7 (R1-R8)



CQSI: 69,6



Photometric Report

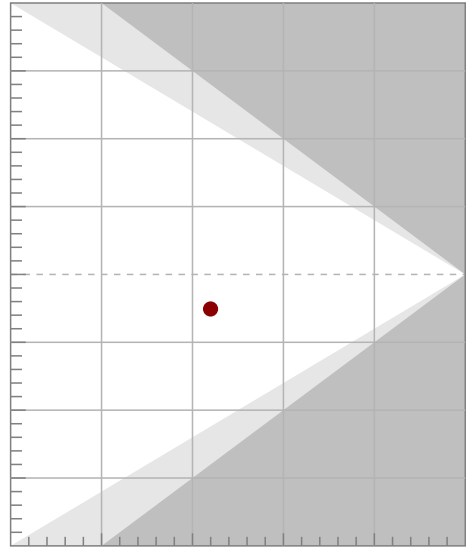
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TM-30-18 DETAILS

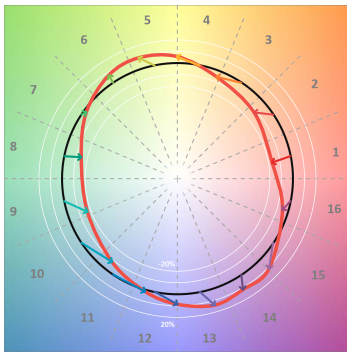
Rf 72,0
Fidelity index Rf

Rg 94,9
Gamut index Rg

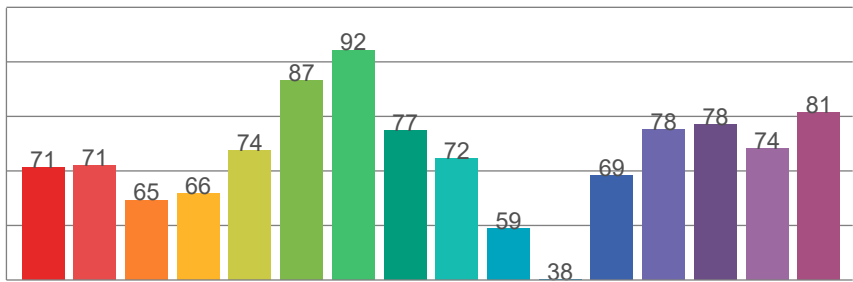
Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	71	-17%	-2%
2	71	-13%	11%
3	65	-8%	21%
4	66	4%	21%
5	74	9%	13%
6	87	8%	0%
7	92	-2%	-4%
8	77	-15%	-2%
9	72	-18%	13%
10	59	-13%	29%
11	38	-3%	31%
12	69	7%	21%
13	78	14%	11%
14	78	12%	-6%
15	74	10%	-21%
16	81	-5%	-9%



TM30-18 Color Vectors



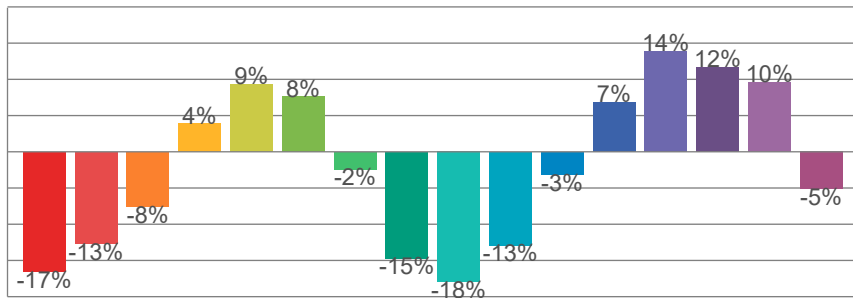
Rf by Hue Bin



TM30 Color Distortion



TM30 Chroma Shift



TM30 Color Fidelity Sample Chart

