

BTI-THEATRE 6C20

PHOTOMETRIC REPORT

50% ZOOM



TESTING NOTES

Operator: Robbie Smedts
Report date: 17/09/2025
Measurement date: 18/07/2025

TESTING PROCESS

TOTAL ILLUMINANCE MEASUREMENTS

Illuminance is measured using the Viso Systems LabSpion®, which takes multiple measurements across a light beam to calculate the total delivered lumens, beam, and field angles of a product. These values can be described as the empirical output of the product as it projects from the lens or lenses. All photometric data contained in this report are obtained from the actual illuminance of the tested Briteq light source and are never theoretical values derived from calculations.

TESTING LAB EQUIPMENT AND PROCESS

The Briteq headquarters in Dilbeek, Belgium has a climate- and light-controlled photometric testing laboratory where Briteq products are analyzed and photometric data are measured using the Viso Systems LabSpion® light measurement solution.

This system includes a spectrometer sensor, which measures the precise light and color output of the fixture, and a dual-axis goniometer, which rotates the product to allow for multi-angle and multidirectional measurement. The Viso Light Inspector software then collects and summarizes the data. From the data gathered, the software can also measure the beam angles and field angles, accurate color temperature, color quality, and illuminance at multiple distances. The custom-built, Briteq-specific template presents this information in the photometric and chromaticity report that follow.

IES (Illuminating Engineering Society) files, and industry-standard file format, are also generated from each test for easy distribution of photometric data. The IES files can be downloaded from the product page on our website.

To ensure accurate measurements in every photometric and chromaticity test, Briteq routinely calibrates the LabSpion® system every six months as recommended by Viso Systems.



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PHOTOMETRIC REPORT - 50% ZOOM - FULL ON - CALIBRATION OFF

2/7

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50% ZOOM

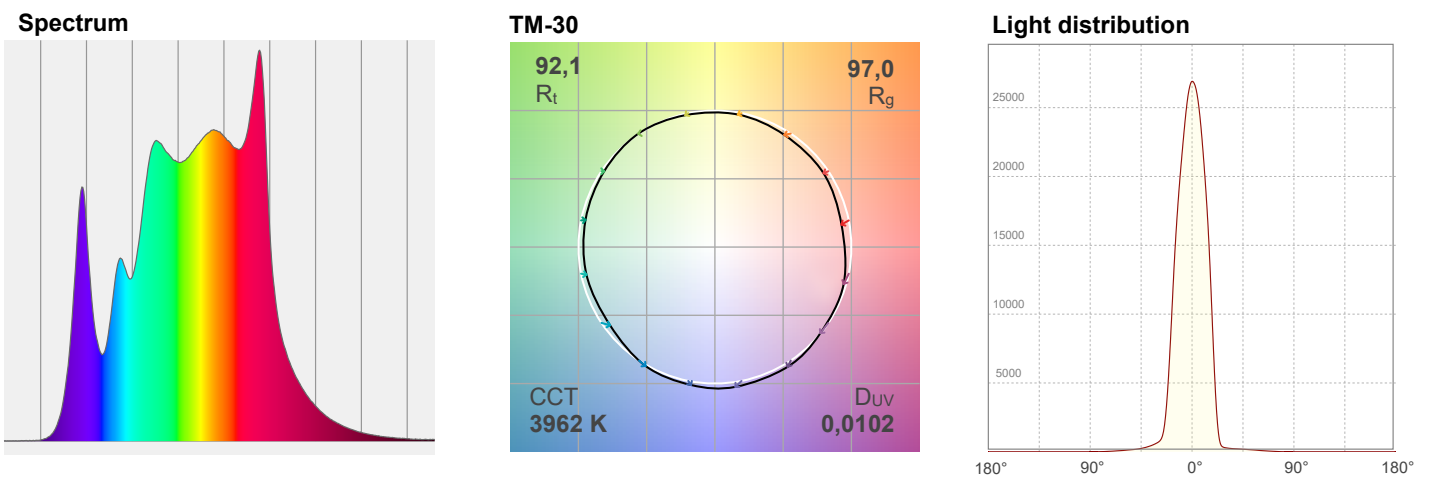
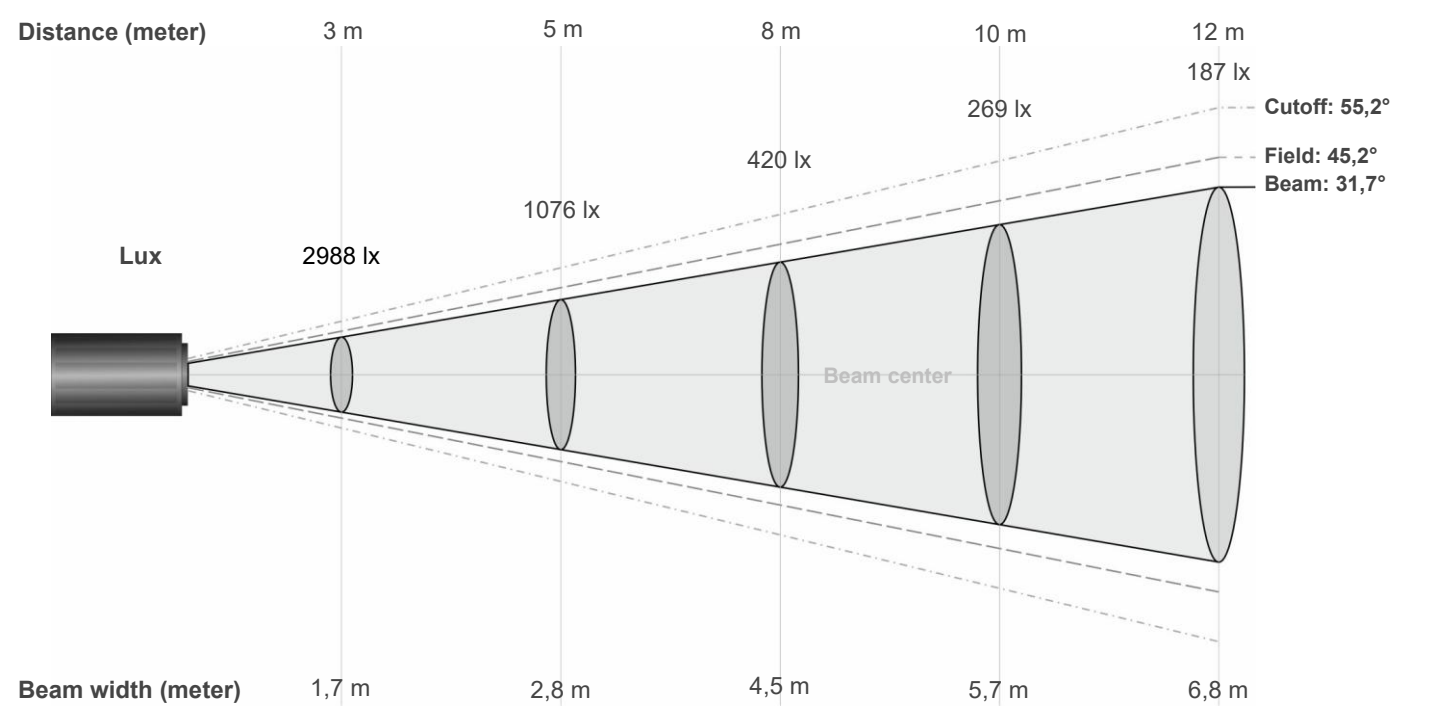
FULL ON - CALIBRATION OFF

OVERVIEW

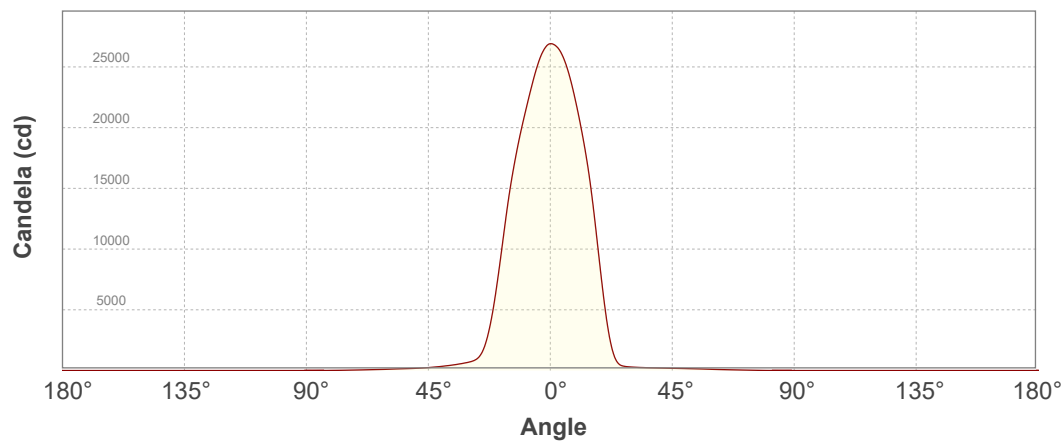
Notes:

DMX mode: Tour; PWM: 1200Hz; Fan: Live

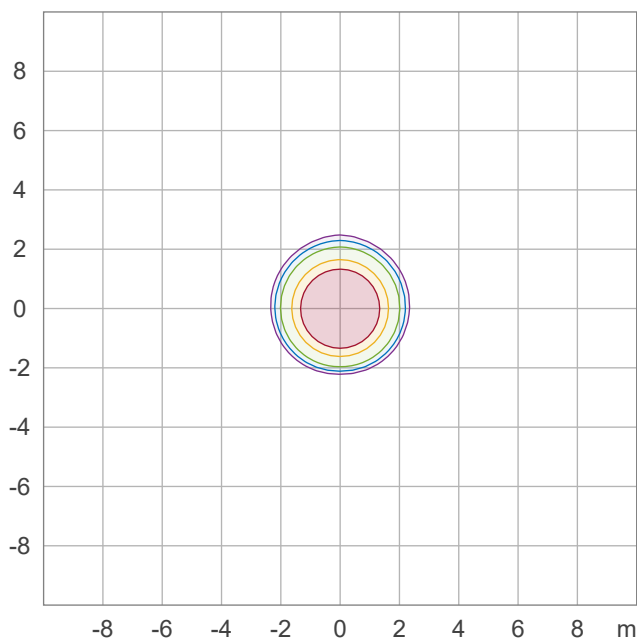
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Total lumen output (goniometer)	Peak candela	Power	Efficiency	Power factor
31,7°	45,2°	55,2°	7486 lm	26909 cd	406,2 W	18 lm/W	0,98



BEAM DETAILS

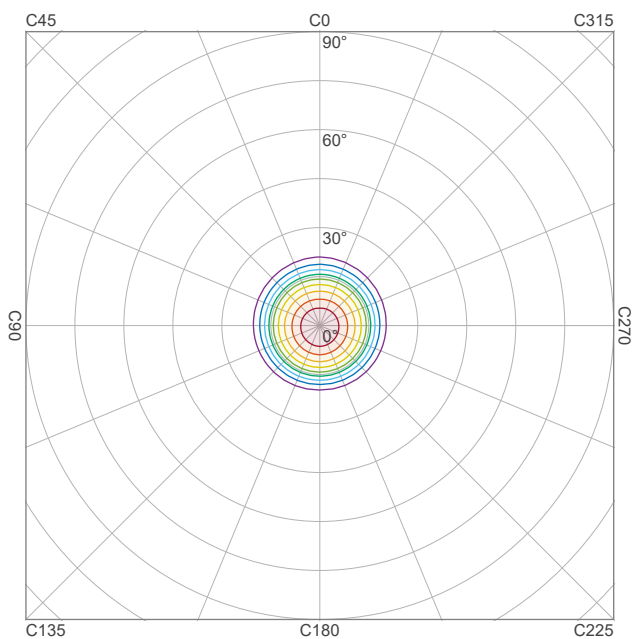


Beam angle (50%): 31,7°
Field angle (10%): 45,2°
Cutoff angle (3%): 55,2°



50,0 %	537,9 lx
30,0 %	322,7 lx
10,0 %	107,6 lx
5,0 %	53,8 lx
3,0 %	32,3 lx

Peak illuminance: 1075,7 lx
Mounting height: 5,0 m
Number of c-planes: 2



90 %	24204,1 cd
80 %	21514,8 cd
70 %	18825,4 cd
60 %	16136,1 cd
50 %	13446,7 cd
40 %	10757,4 cd
30 %	8068,0 cd
20 %	5378,7 cd
10 %	2689,3 cd

Peak intensity: 26893,5 cd
Number of c-planes: 2

CHROMATICITY

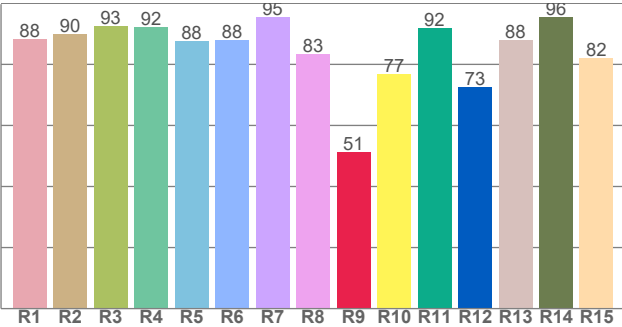
Color paramters

Color temperature	Color rendering index	Red component
CCT	CRI	CRI – R9
3962 K	89,6	51,1

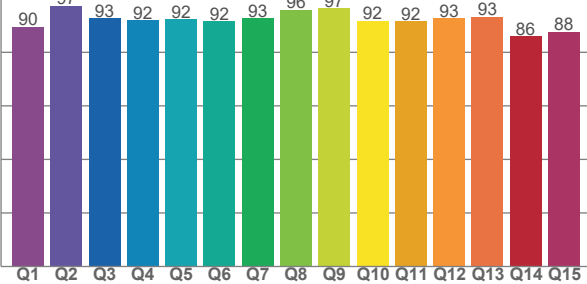
Color fidelity	Color gammut	Television lighting consistency index
TM-30-18 - Rf	TM-30-18 - Rg	TLCI
92,1	97,0	88

Color coordinate CIE 1931	Color coordinate CIE 1976	Color deviation from Black Body Curve
x y	u v	Δuv
0,390 0,406	0,220 0,343	0,0102

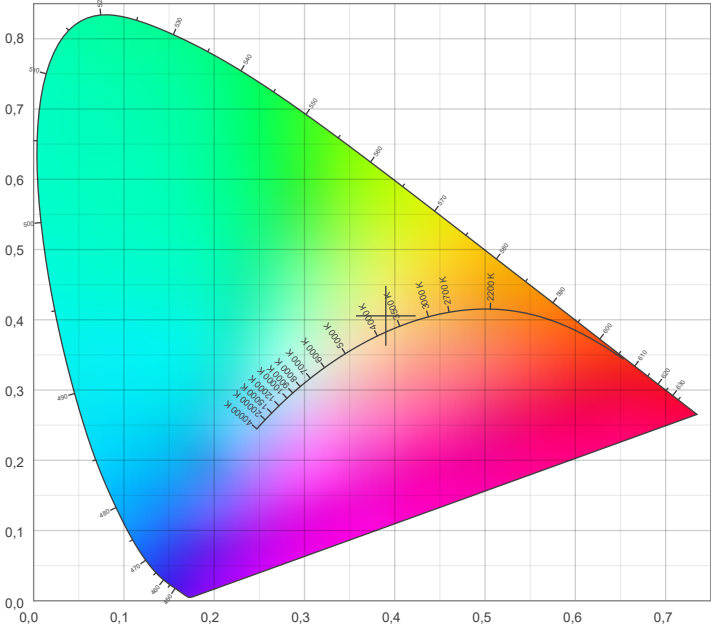
CRI: 89,6 (R1-R15)



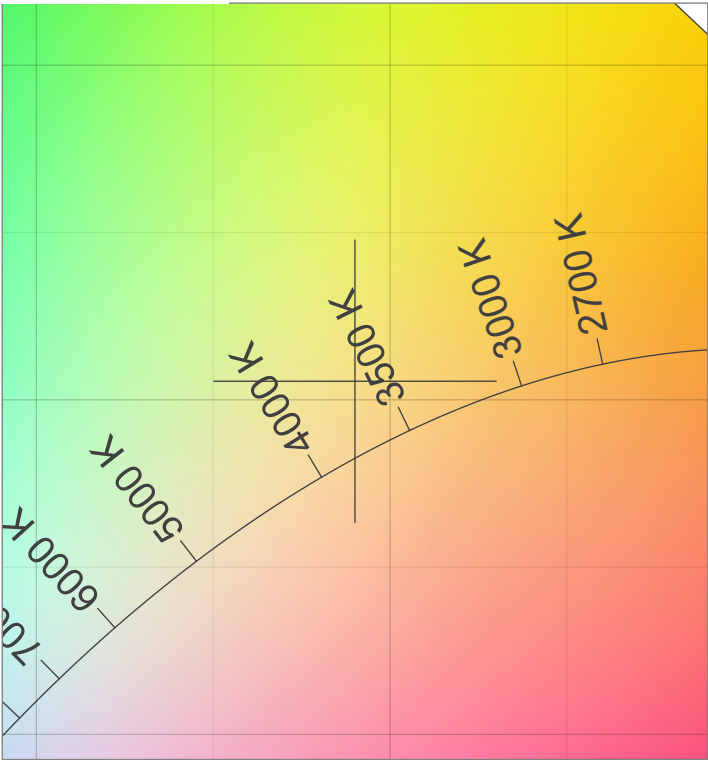
CQS: 91,7



CIE1931



CIE1931 – Zoom



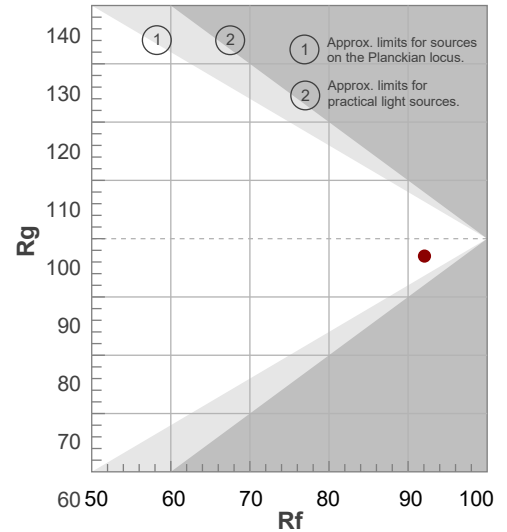
TM-30 DETAILS

TM-30 is an improved method of measuring the color rendering of a light source. The TM-30 graphic shows fidelity (Rf) and gamut (Rg). A higher Rf depicts more accurate colors, a higher Rg a more vibrant color.

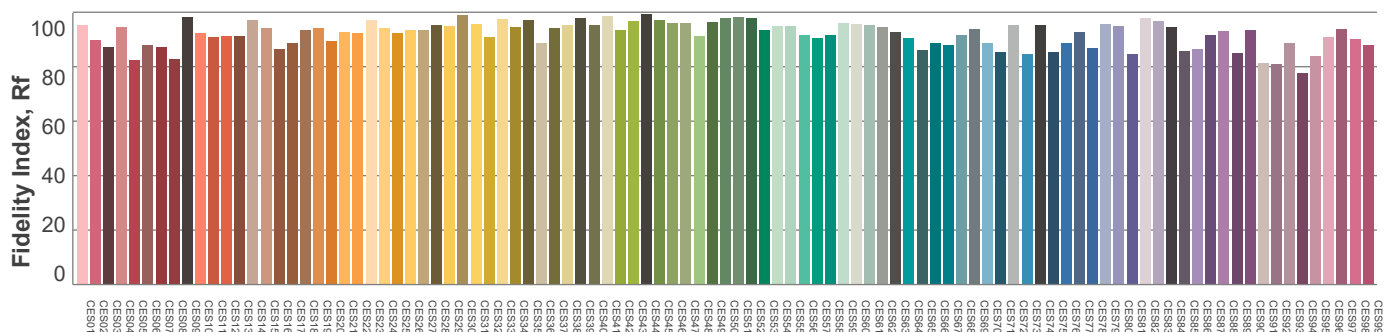
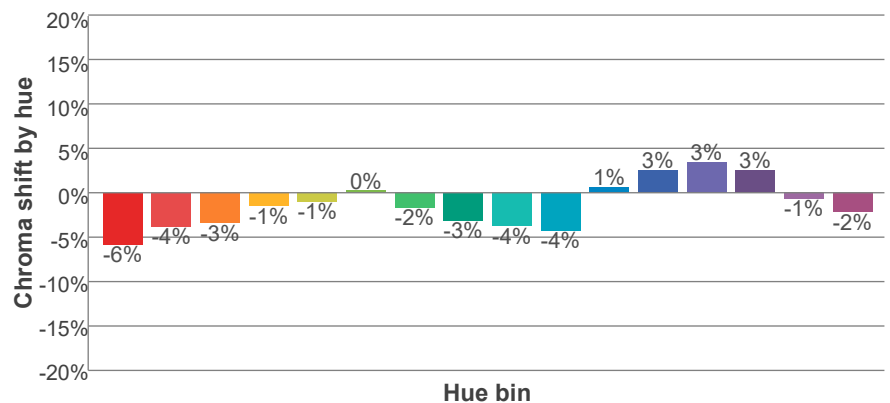
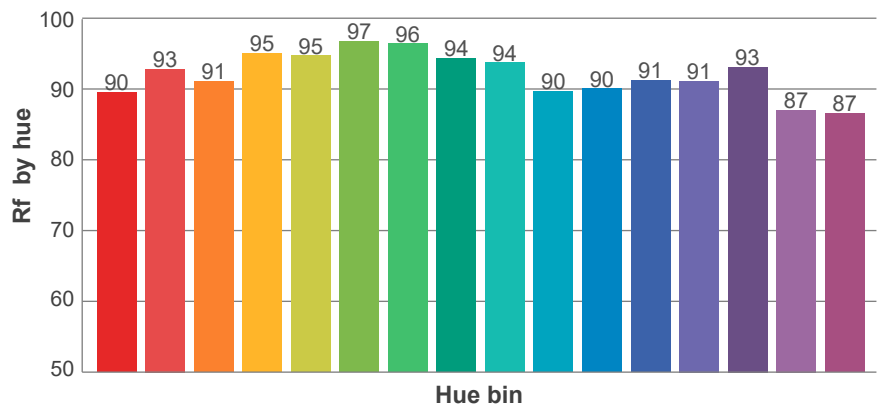
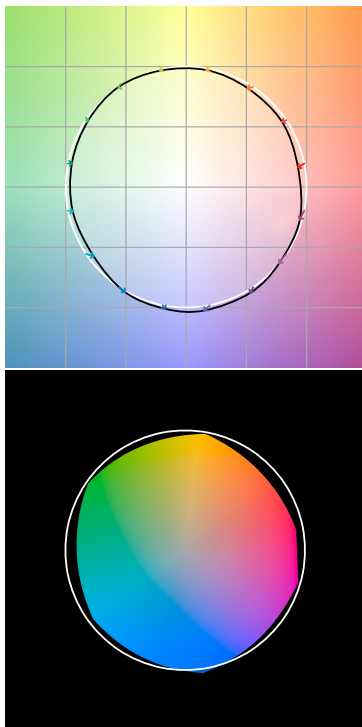
Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	90	-6%	-2%
2	93	-4%	1%
3	91	-3%	3%
4	95	-1%	2%
5	95	-1%	2%
6	97	0%	1%
7	96	-2%	-1%
8	94	-3%	-1%
9	94	-4%	2%
10	90	-4%	5%
11	90	1%	6%
12	91	3%	3%
13	91	3%	-5%
14	93	3%	-4%
15	87	-1%	-9%
16	87	-2%	-8%

Rf 92,1
Fidelity index Rf

Rg 97,0
Gamut index Rg



Color vector graphics



TLCI DETAILS

The TLCI, or Television Lighting Consistency Index, measures how accurately film and television cameras interpret colors under an artificial light source.

TLCI 88

Television Lighting
Consistency Index

