

Light Measurement Report

Print date: 2026-09-30

Measurement date and time: 2026-09-30 2:55:29 PM – Measurement no. TR-0331-260930

Measurement tracking No. and Link: [n/a](#)

Operator: NC

SKU, Test Type and Log#: 24VML6RGBWCW2760-10M_WW_389



Laboratory and Equipment

Laboratory Owner and Location

Goniospectrometer System and Type

Sensor Name, Calibr. Date and Serial No.

Spectrometer Manufacturer and Model

Moss LED Inc., Toronto, Ontario, Canada

BaseSpion – Type C, horizontal

BaseSensor – 2023-06-27 – 2807073281

Ibsen Photonics, Denmark – Freedom VIS (Custom Viso)

Measurement Conditions

Number of C-planes and Resolution

γ (gamma)-Resolution

Test Distance

Input Power per 1 meter

Input RMS Voltage and Current per 1 meter

Frequency of Input Power

12 planes – 30°

5°

2.50 m

11.5 W

24.0 V – 0.480 A

0 Hz

Tested Light Source

Product Name _ Colours Tested _ Test Log / Manufacturer
Product and Test Details

24VML6RGBWCW2760-10M_WW_389 / MossLED Inc.

24V, RGB + 2700K + 6000K. Flex panel, Warm White test

Main Light Measurement Results

Total Lumen Output per 1 meter

Efficiency

Peak Intensity and Overall Beam Angle

Correlated Color Temperature: Nominal / Average / Straight-on

Color Rendering Index

Color Rendering TM30-18

Color Shift, CIE duv and MacAdam Steps

Flicker

1st Peak / 2nd Peak Wavelength

Dominant Wavelength

937 lm

81 lm/W

327 cd – 112.5°

CCT = K / 2710 K / 2790K

CRI = 96.8

R_f 96.4 – R_g 100.9

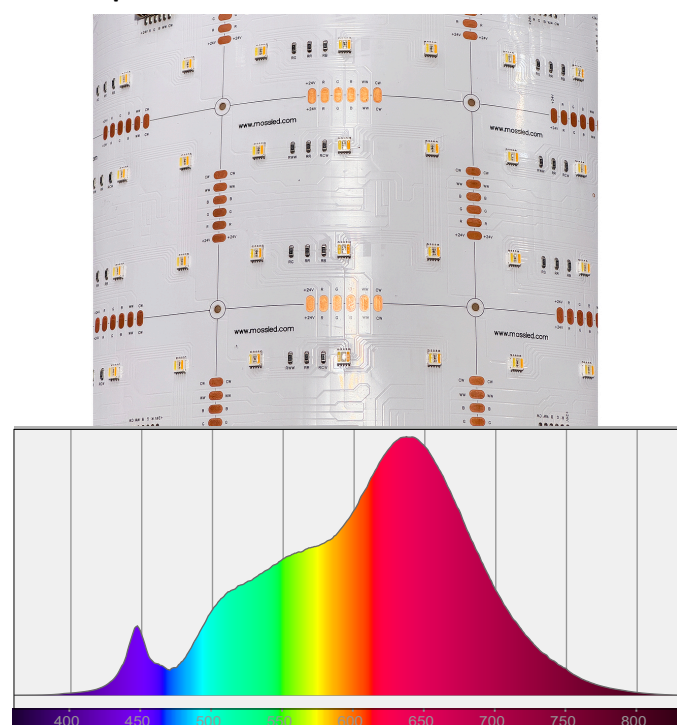
Duv 0.0036 – SDCM n/a

SVM n/a – PstLM n/a

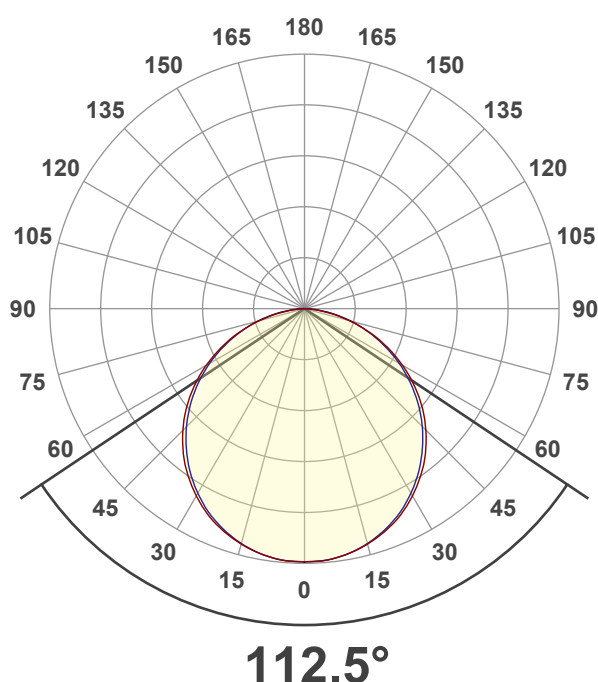
636 nm / 446 nm

583 nm

Product picture:



50% Beam Angle (overall H+V, % values)



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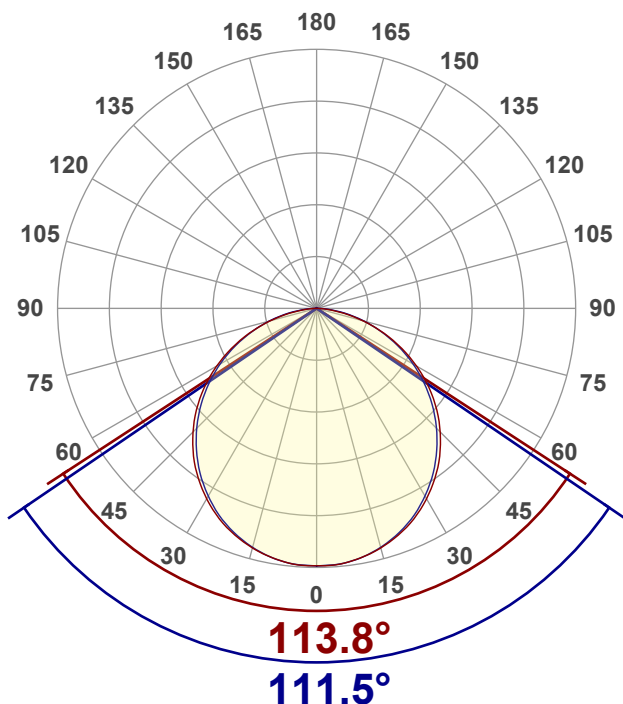
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50% Beam Angle (Horizontal and Vertical, % values)



Main Values

Output (total Lumen)	937 lm
Peak Intensity	327 cd
Beam Angle (10%)	113.8°
Beam Angle (50%)	112.5°
Beam Angle (90%)	111.5°

Cut-off Angle

Average 2,5%	173.7°
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Field Angle

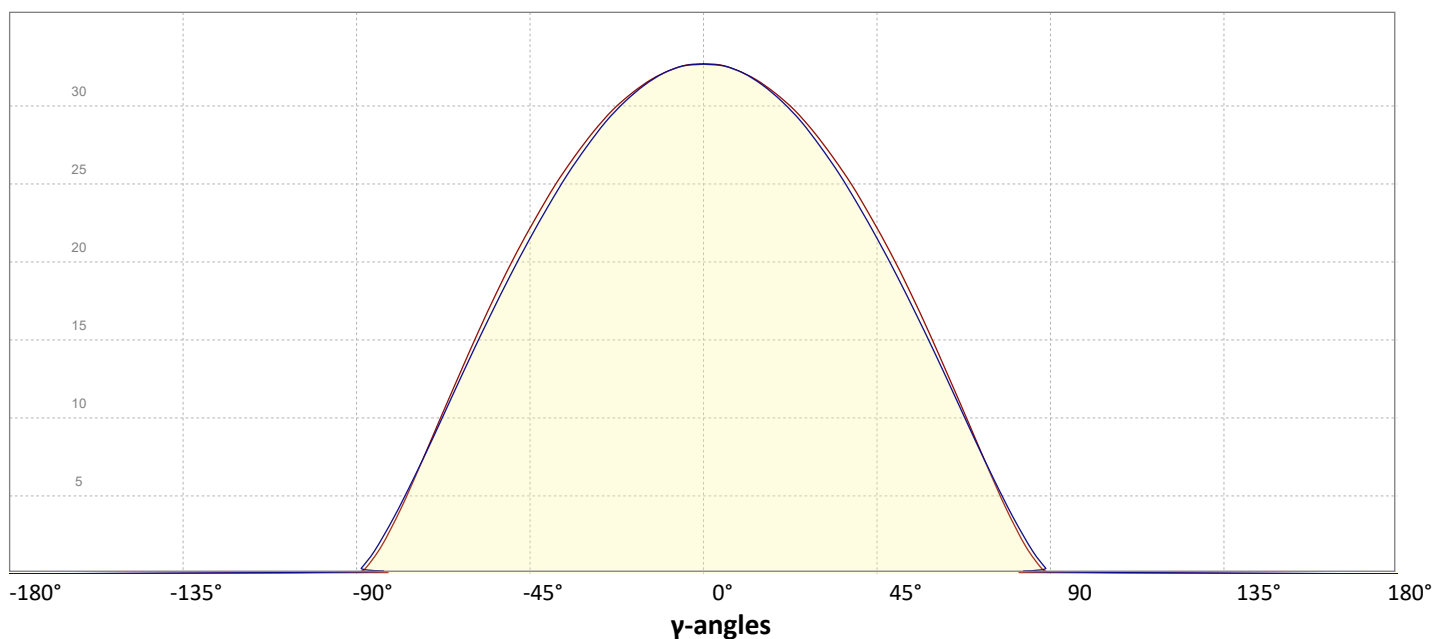
Average 10%	161.4°
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Intensity Ratio

In 120° cone	78.6%
In 90° cone	53.5%

C000-C180 Horiz.	113.8°
C090-C270 Vertical	111.5°

Linear distribution diagram - Intensity (candela) vs γ-angle



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Color details

Correlated Color Temperature (K): Nominal / Average / Straight on

K	2710 K	2790K
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Color Rendering Index CRI = 96.8

Color Rendering Index, R9 (red component) R9 = 99.4

Color Rendering TM30-18 R_f 96.4 – R_g 100.9

Color Quality Scale CQS = 91.4

MacAdam Steps

Color coordinates CIE 1931

Color coordinate CIEs 1960

Color deviation from BBL

Color coordinate CIEs 1976 (CIELUV)

SDCM = n/a

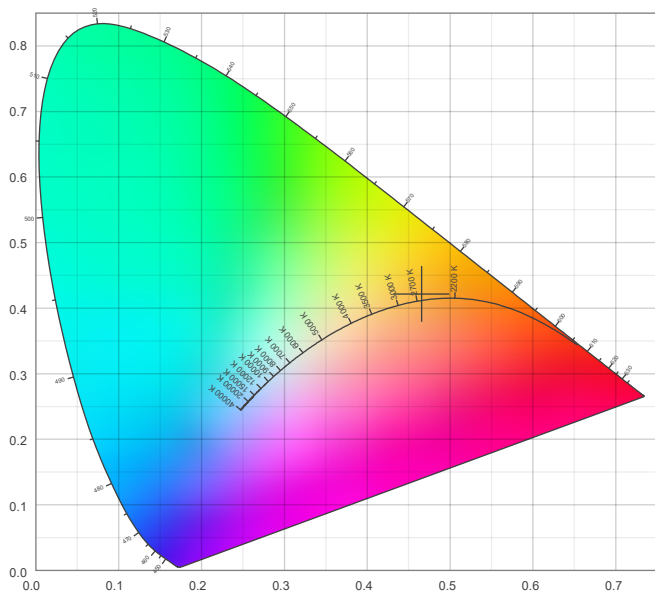
(x;y) = (0.466;0.422)

(u;v) = (0.261;0.355)

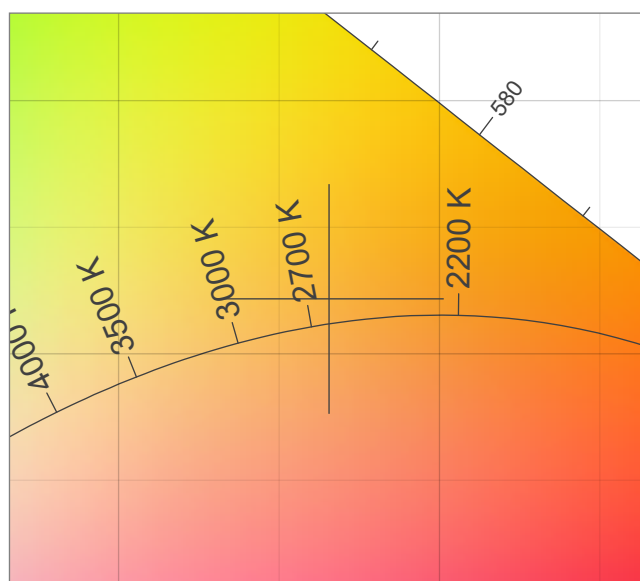
Duv = 0.0036

(u';v') = (0.261;0.532)

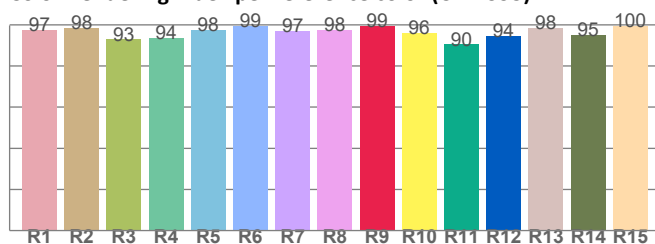
CIE 1931



CIE 1931 – zoomed on Planckian locus



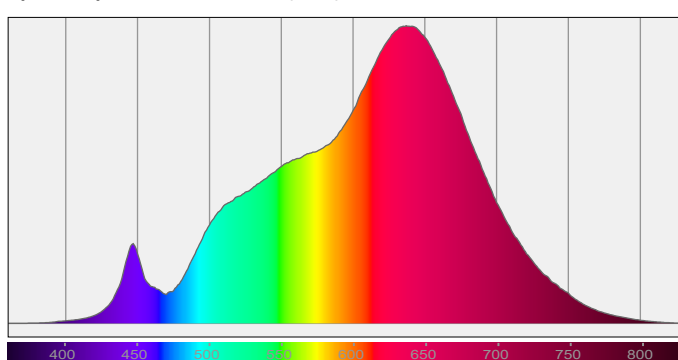
Color Rendering Index per reference color (CIE 1995)



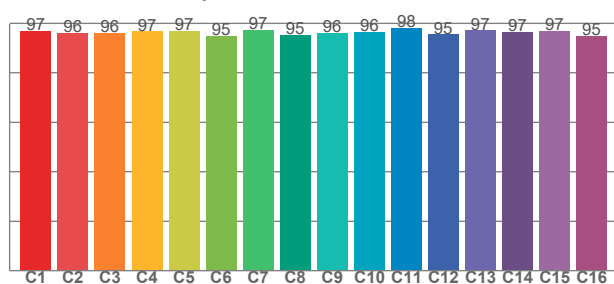
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.5	98.5	92.9	93.6	97.6	99.4	97.1	97.5	99.4	95.7	90.4	94.4	98.4	95.0	99.6

Spectral power distribution (SPD) / W/nm – 0-100%



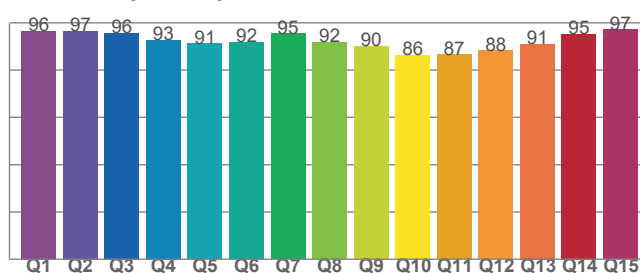
TM30-18 Rf-values per hue bin



TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96.8	96.1	96.1	96.7	97.0	94.8	97.1	95.3	95.9	96.4	98.2	95.4	97.1	96.5	96.9	94.7

Color Quality Scale by reference color

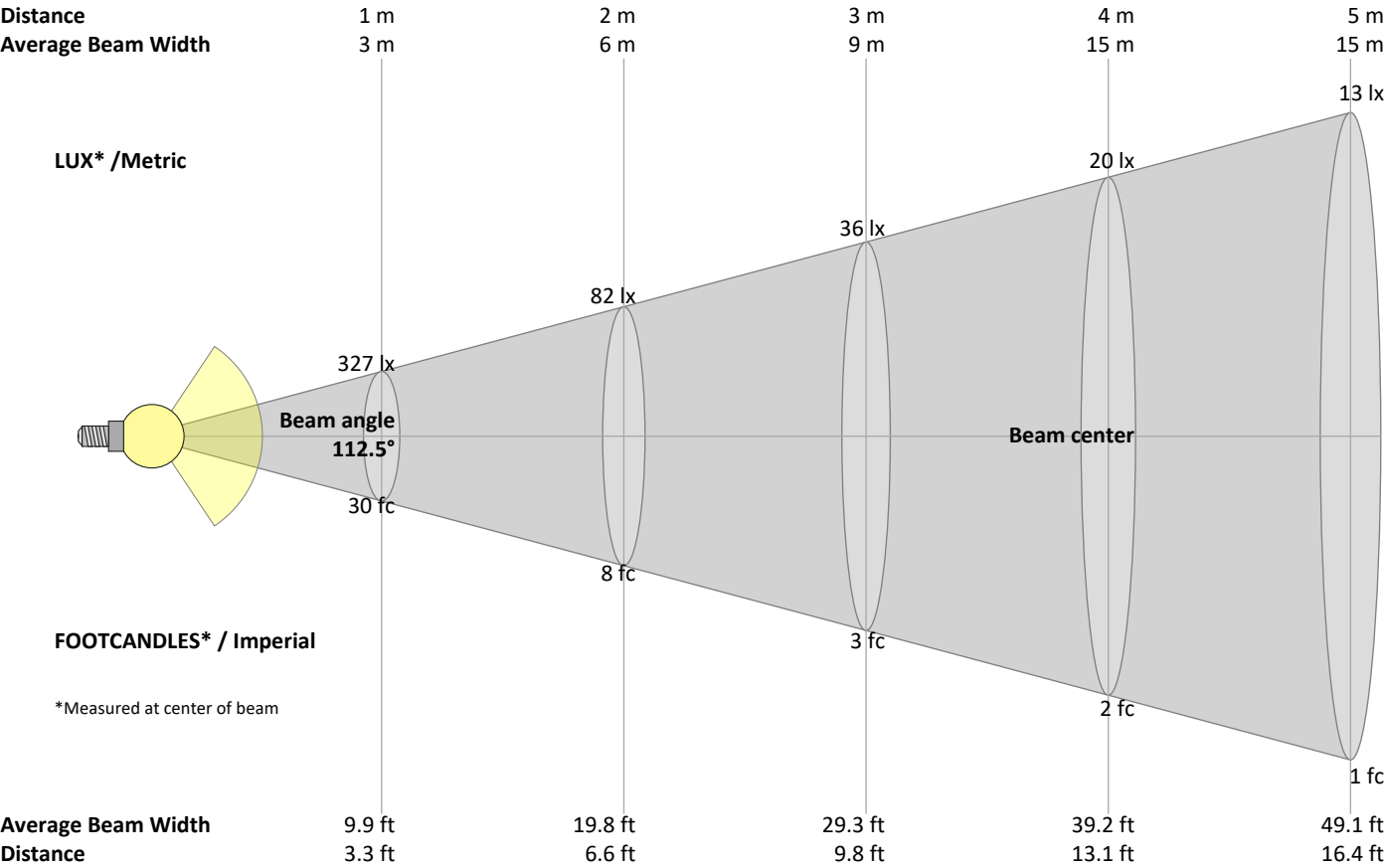


CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96.4	96.5	95.6	92.7	91.2	91.7	95.5	91.7	90.1	86.4	86.5	88.3	91.0	95.3	97.1

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Beam intensities from 1 – 20 m

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	m
3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6	ft
327	82	36	20	13	9	7	5	4	3	3	2	2	2	1	1	1	1	1	1	lux
30.4	7.6	3.4	1.9	1.2	0.8	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	fc

Power Details

Input Power

Power feed to light source	11.5 W
Frequency of input power	0 Hz
RMS Input voltage feed, VRMS	24.0 V
RMS Input current feed, IRMS	0.480 A
Volt-Ampere or apparent power = VRMS*IRMS	11.52 VA
Displacement factor of AC power feed	0.0
Power factor of AC current feed	1.0
Total harmonic distortion of the current	0%
Total harmonic distortion of the voltage	0%

Efficiency

