

# Light Measurement Report

Print date: 2026-09-30

Measurement date and time: 2026-09-30 3:00:48 PM – Measurement no. TR-0333-260930

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

Operator: NC

SKU, Test Type and Log#: 24VML6RGBWCW2760-10M\_CW\_390



## 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

$\gamma$  (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\_CW\_390 / MossLED Inc.  
24V, RGB + 2700K + 6000K. Flex panel, Cool 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

1082 lm

94 lm/W

369 cd – 114.1°

CCT = K / 6561 K / K

CRI = 96.0

R<sub>f</sub> 94.1 – R<sub>g</sub> 102.5

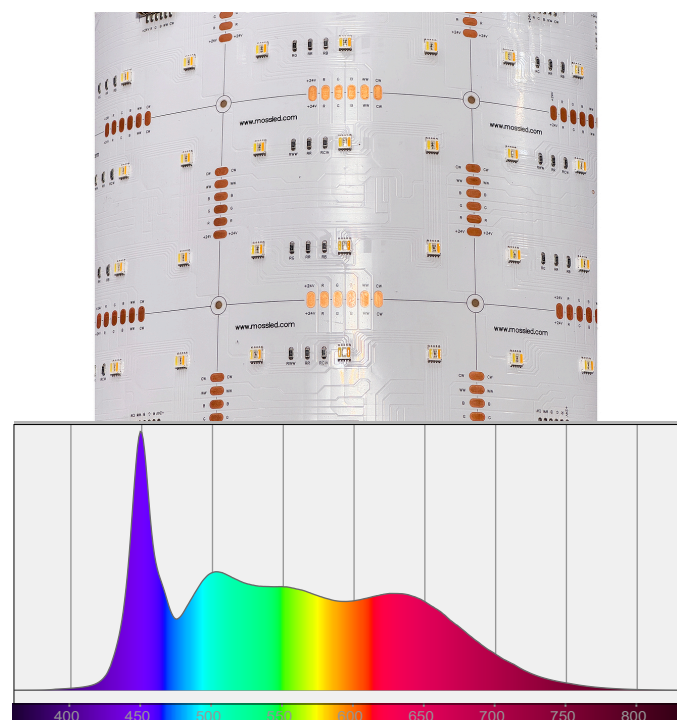
Duv -0.0003 – SDCM n/a

SVM n/a – PstLM n/a

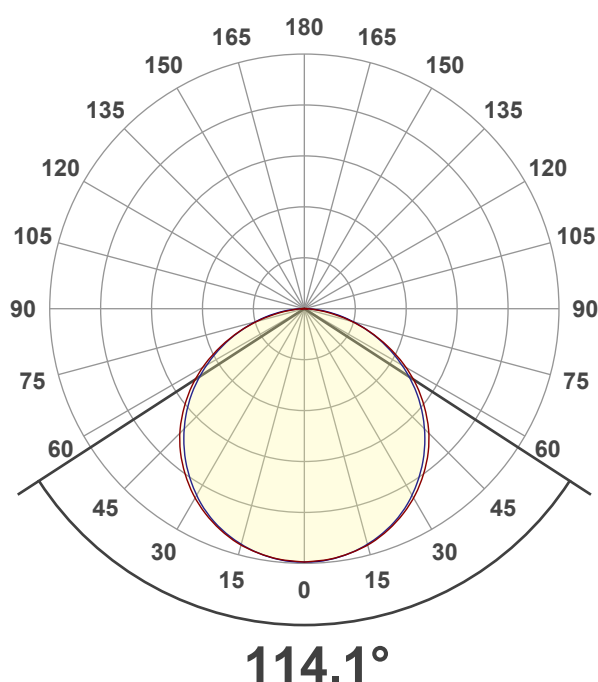
450 nm / 504 nm

551 nm

## Product picture:



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



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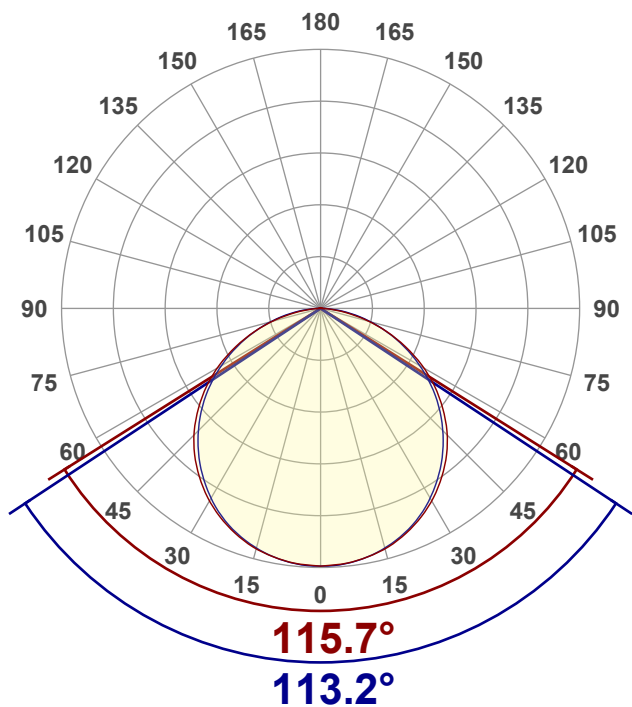
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## 50% Beam Angle (Horizontal and Vertical, % values)



### Main Values

|                      |         |
|----------------------|---------|
| Output (total Lumen) | 1082 lm |
| Peak Intensity       | 369 cd  |
| Beam Angle (10%)     | 115.7°  |
| Beam Angle (50%)     | 114.1°  |
| Beam Angle (90%)     | 113.2°  |

### Cut-off Angle

|              |        |
|--------------|--------|
| Average 2,5% | 174.8° |
|--------------|--------|

### Field Angle

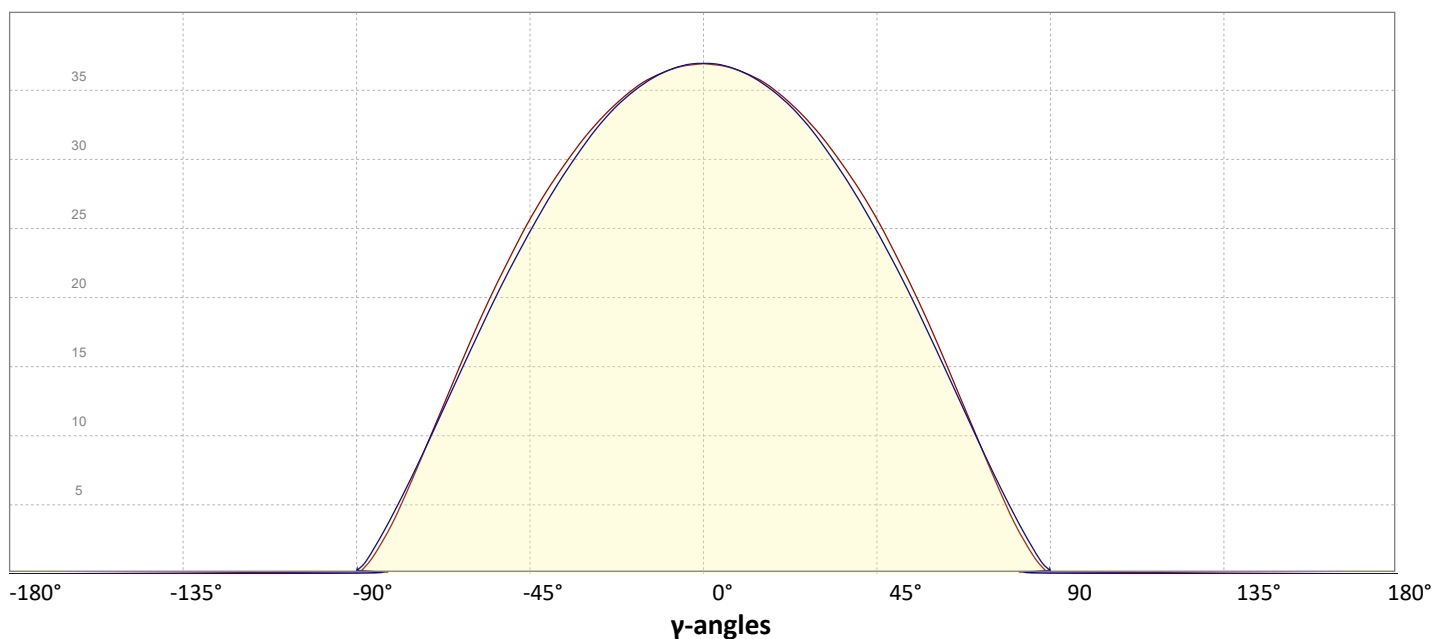
|             |        |
|-------------|--------|
| Average 10% | 162.5° |
|-------------|--------|

### Intensity Ratio

|              |       |
|--------------|-------|
| In 120° cone | 78.2% |
| In 90° cone  | 52.9% |

|                    |        |
|--------------------|--------|
| C000-C180 Horiz.   | 115.7° |
| C090-C270 Vertical | 113.2° |

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



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## Color details

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

| K                                         | 6561 K             | K |
|-------------------------------------------|--------------------|---|
| Color Rendering Index                     | CRI = 96.0         |   |
| Color Rendering Index, R9 (red component) | R9 = 81.1          |   |
| Color Rendering TM30-18                   | Rf 94.1 – Rg 102.5 |   |
| Color Quality Scale                       | CQS = 96.7         |   |

MacAdam Steps

Color coordinates CIE 1931

Color coordinate CIEs 1960

Color deviation from BBL

Color coordinate CIEs 1976 (CIELUV)

SDCM = n/a

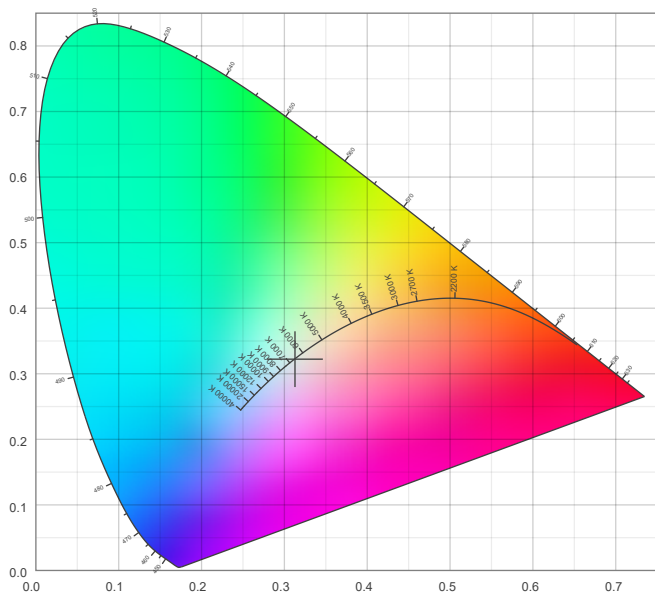
(x;y) = (0.313;0.322)

(u;v) = (0.200;0.310)

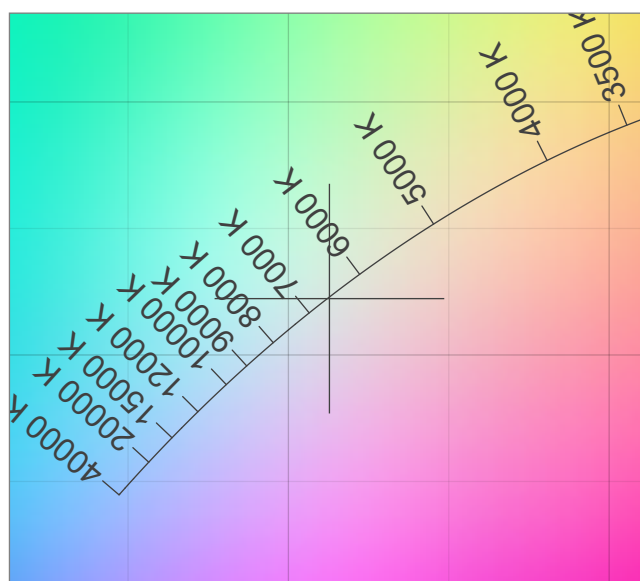
Duv = -0.0003

(u';v') = (0.200;0.465)

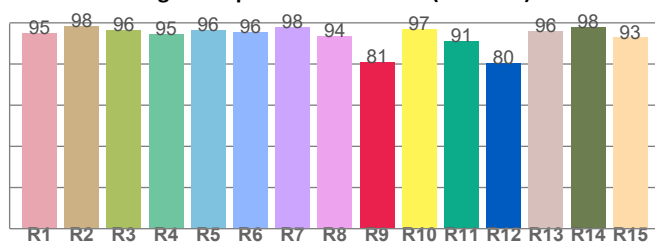
## CIE 1931



## CIE 1931 – zoomed on Planckian locus



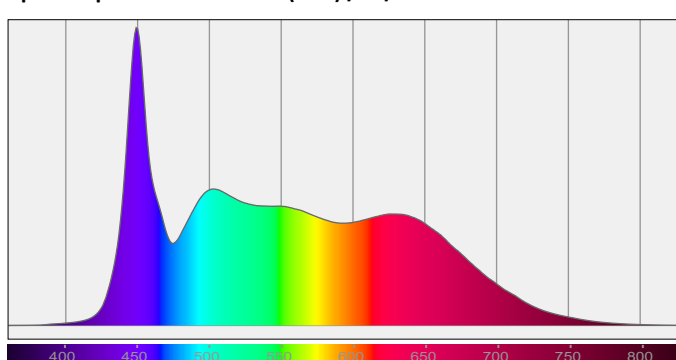
## Color Rendering Index per reference color (CIE 1995)



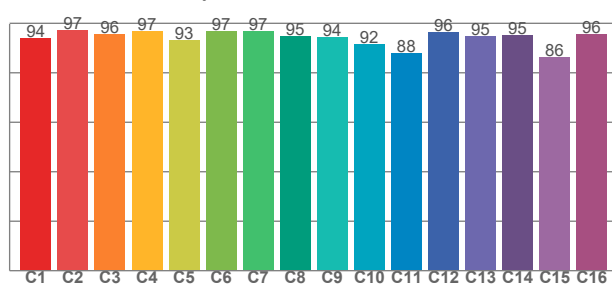
CRI R values, only R1-R8 are used to calculate final CRI value

| R1   | R2   | R3   | R4   | R5   | R6   | R7   | R8   | R9   | R10  | R11  | R12  | R13  | R14  | R15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95.2 | 98.4 | 96.3 | 94.7 | 96.5 | 95.6 | 98.0 | 93.6 | 81.1 | 96.9 | 90.9 | 80.4 | 96.0 | 97.8 | 92.8 |

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



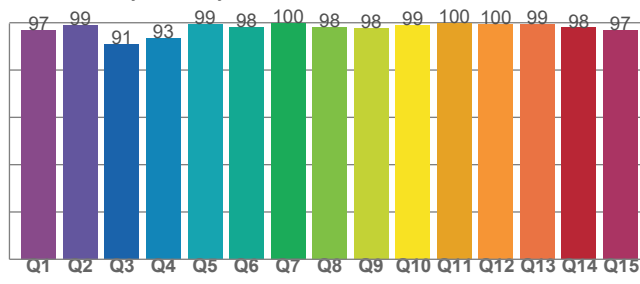
## TM30-18 Rf-values per hue bin



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  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94.0 | 97.2 | 95.8 | 96.7 | 93.2 | 96.9 | 96.9 | 94.8 | 94.4 | 91.6 | 88.0 | 96.3 | 94.8 | 95.3 | 86.4 | 95.6 |

## Color Quality Scale by reference color



CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96.8 | 98.9 | 90.8 | 93.4 | 99.3 | 98.1 | 99.9 | 98.1 | 97.7 | 99.0 | 99.8 | 99.5 | 99.4 | 98.0 | 96.8 |

