Certificate Number: 3109

Measurement Date:June 5,2024

Certificate Issue date:June 11,2024

Measurement Certificate

Requester	RAYGEARS LLC
Address	7-4-15-4F Honcho, Funabashi-City, Chiba Prefecture, Japan
Product Name	TSUKUYOMI・9(VR.3)
Model	RGT9-60STD-HP3
Manufacturer	RAYGEARS LLC
Measurement Unit	Illuminance [lx]
Measurement Method	OTCL Calibration procedure(LAB-T001), ANSI / NEMA FL1
Environment of Measurement	Temperature: 23 °C ± 2 °C Relative Humidity : 65 % ± 20 %
Measurement Date	June 5, 2024
Certificate Issue Date	June 11, 2024

Kyokko Trading Co.,Ltd.

Optical Test & Calibration Laboratory

Optical Metrology Engineer

Takuro Hirano

Takuro Hirano

旭光通商株式会社 光学試験校正室

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Mearsurement Results

1.Measurement Content

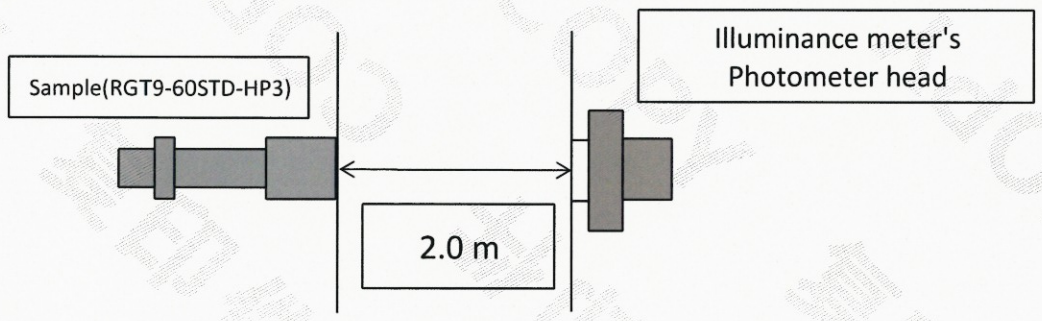
1-1 :Illuminance Measurement Results

Illuminance[klx]	RGT9-60STD-HP3
Measurement Value	123.2

1-2 : Measurement Envoirment

Temperature: 21.2 ℃ Relative Humidity: 45.4%

1. A measurement distance is 2.0 m between B520 illuminance meter's photometer head surface and measuring sample's surface.
2. A sample is lit by the built-in battery.
3. The measurement was performed after lighting.
4. A measurement position is adjusted so that the illuminance meter's value was maximized.



1-3 : Reference Standards used for calibration

Reference standards	Manufacturer	Model	S/N	Lamp used for Calib.
NIST compliante Spectral Irradiance Working Standard	Optronic Laboratory	OL345RP	90101125	☐
Illuminance meter	LMT	B520	04A5181 04A5182	☑

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2.PEAK BEAM INTENSITY[cd]

2-1:PEAK BEAM INTENSITY[cd] Calclation

ANSI/NEMA FL1 Section 2.3.6, obtain the illuminance results and "PEAK BEAM INTENSITY" from distance bytge the following formula(1).

$$\text{Illuminance[lx]} \times (\text{Distance[m]})^2 = \text{PEAK BEAM INTENSITY[cd]} \quad \text{----------(1)}$$

* Illuminance[lx] and Distance[m] from Illuminance measuring results(1-1).

2-2:PEAK BEAM INTENSITY calcurate results

PEAK BEAM INTENSITY[cd]
492,800

3.BEAM DISTANCE[m]

3-1:BEAM DISTANCE[m] calcuration method

ANSI/NEMA FL1 Section 2.2.6, obtain "BEAM DISTANCE" from "PEAK BEAM INTENSITY" by the following formula (2).

$$\sqrt{(\text{PEAK BEAM INTENSITY}/0.25)} = \text{BEAM DISTANCE} \quad \text{----------(2)}$$

3-2:BEAM DISTANCE[m] calcuration results

BEAM DISTANCE[m]
1404