Journée Très LEDs - De beaux tests à faire

Images & mesures par constructeur

JTL 13

TRANSPA

icseyes services

Be4Post

CST

MagicHour
Que vos projets deviennent réalité

A Bright LED day - Brilliant tests on the horizon

Images & measurements by manufacturer

PROLIGHTS

ECLFRESNEL

CT+MIP CT+LIP

SONY VENICE 2

https://prolights.it/product/ECLFRCTPMIP

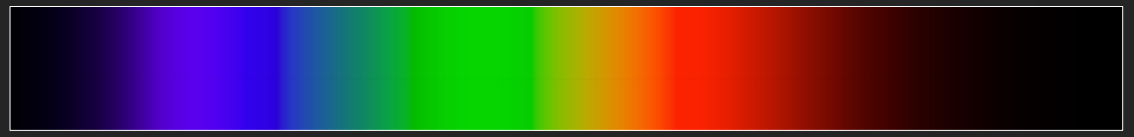
https://prolights.it/product/ECLFRCTPLIP

Full-color

+MIP
350 W

+LIP
600 W

Données du fabricant / Manufacturer's data



PROLIGHTS

ECLFRESNEL CT

+MIP & +LIP

Interview du fabricant en français :

Interview with the manufacturer in French:

ECLFRESNEL CT +MIP

https://www.youtube.com/watch?v=RM8dwy19iCo

+MIP 350 W

La gamme des Fresnels Prolights se décline en 3 versions : S (200W), M (350W) et L (600W).

Chacune de ces versions peut être IP65 ou IP20 (dans ce dernier cas pas de « IP » à la fin du nom. Exemple : EclFresnel CT+M). La plage de zoom diffère un peu selon les versions : S (9,7 à 73,5°) ; M (9,4 à 80,8°) ; L (10 à 77°).

A noter aussi qu'un mode « High SSI » est en cours de préparation et devrait voir le jour d'ici la fin de l'année

+ LIP 600 W

The Fresnels Prolights range comes in 3 versions: S (200W), M (350W) and L (600W).

Each of these versions can be IP65 or IP20 (in the latter case there is no "IP" at the end of the name. Example: EclFresnel CT+M). The zoom range differs slightly between versions: S (9.7 to 73.5°); M (9.4 to 80.8°); L (10 to 77°).

It should also be noted that a 'High SSI' mode is in preparation and should be available by the end of the year.

Plan / Plan

- ECLFRESNEL CT+MIP & Images
  - ✓ Peau caucasienne
    - Comparatifs ECLFRESNEL CT+MIP vs tungstène
    - Sous-exposition : ND 06 vs gradateur
  - ✓ Peau noire
    - Comparatifs ECLFRESNEL CT+MIP avec tungstène
    - Sous-exposition : ND 06 vs gradateur
- Mesures : Explications & exemples
- Mesures
- ECLFRESNEL CT+MIP / + LIP
- ECLFRESNEL CT+MIP /+LIP , Spectra & SSI @ 3200K / 5600K
- ECLFRESNEL CT+MIP, Images, Spectra & SSI
- ECLFRESNEL CT+MIP / +LIP , & TM-30
- Données constructeur
- Explications : K, CCT K, Duv & coordonnées x,y

- ECLFRESNEL CT+MIP & Images
  - ✓ Caucasian skin tone
    - Comparison ECLFRESNEL CT+MIP vs tungsten
    - Underexposure: ND 06 vs dimmer
  - ✓ Black skin tone
    - Comparison ECLFRESNEL CT+MIP vs tungsten
    - Underexposure ND 06 vs dimmer
- Measurements: Explanations & examples
- Measurements
- ECLFRESNEL CT+MIP / + LIP
- ECLFRESNEL CT+MIP / +LIP , Spectra & SSI @ 3200K / 5600K
- ECLFRESNEL CT+MIP, Images, Spectra & SSI
- ECLFRESNEL CT+MIP / +LIP , & TM-30
- Manufacturer's data
- Explanations on: K, CCT K, Duv & x,y coordinates

ECLFRESNEL CT+MIP

& Images

CAUCASIAN

Alice

SONY VENICE 2

ECLFRESNEL

CT+MIP

Comparison with

TUNGSTEN


SONY VENICE
EXP T28
24 fps 800 ISO
172.8° XOCNST
5.4K Anagénieux 75 mm
QUIARZ 800 W
3200K
Alice
TUNGSTEN REF.
SONY VENICE 2
GRADED

Images & données PROLIGHTS ECLFRESNEL CT+MIP Images & Data

ECLFRESNEL CT+MIP

SONY VENICE 2

GRADED

TUNGSTEN REF.

SONY VENICE 2

GRADED

ECLFRESNEL CT+MIP

CAUCASIAN

Alice

SONY VENICE 2

ECLFRESNEL

CT+MIP

UNDEREXPOSED (-2 STOPS ND 06)

Comparison with

DIMMER @ 25%

UNDEREXPOSED (-2 STOPS ND 06) Comparison with DIMMER @ 25%

Pour vérifier si les gradateurs des projecteurs sont fiables, nous avons fait une comparaison entre deux plans sous-exposés :

- Le premier avec un filtre ND 06
- Le second en diminuant la puissance sur le projecteur à 25%, ce qui entraîne automatiquement une différence d'exposition sur les fonds.

De ce fait, le visage devient la seule référence à comparer.

Pour ramener la correction d'exposition au keylight, on a travaillé en offset en équivalent points de lumière de tirage.

To check whether the projectors' dimmers are reliable, we compared two underexposed shots:

- The first with an ND 06 filter
- The second by dimming down the power on the projector to 25%, which automatically results in a difference in exposure on the backgrounds.

As a result, the face becomes the only reference to compare.

To correct the exposure up to the keylight, we worked in offset like with printer light points.

Comparison

UNDEREXPOSED
(-2 STOPS ND 06)

Back to Keylight

Back to Keylight

DIMMER @ 25%

Images & données PROLIGHTS ECLFRESNEL CT+MIP Images & Data

UNGRADED

ECLFRESNEL CT+MIP

Underexposed -2 stops

Images & données PROLIGHTS ECLFRESNEL CT+MIP Images & Data

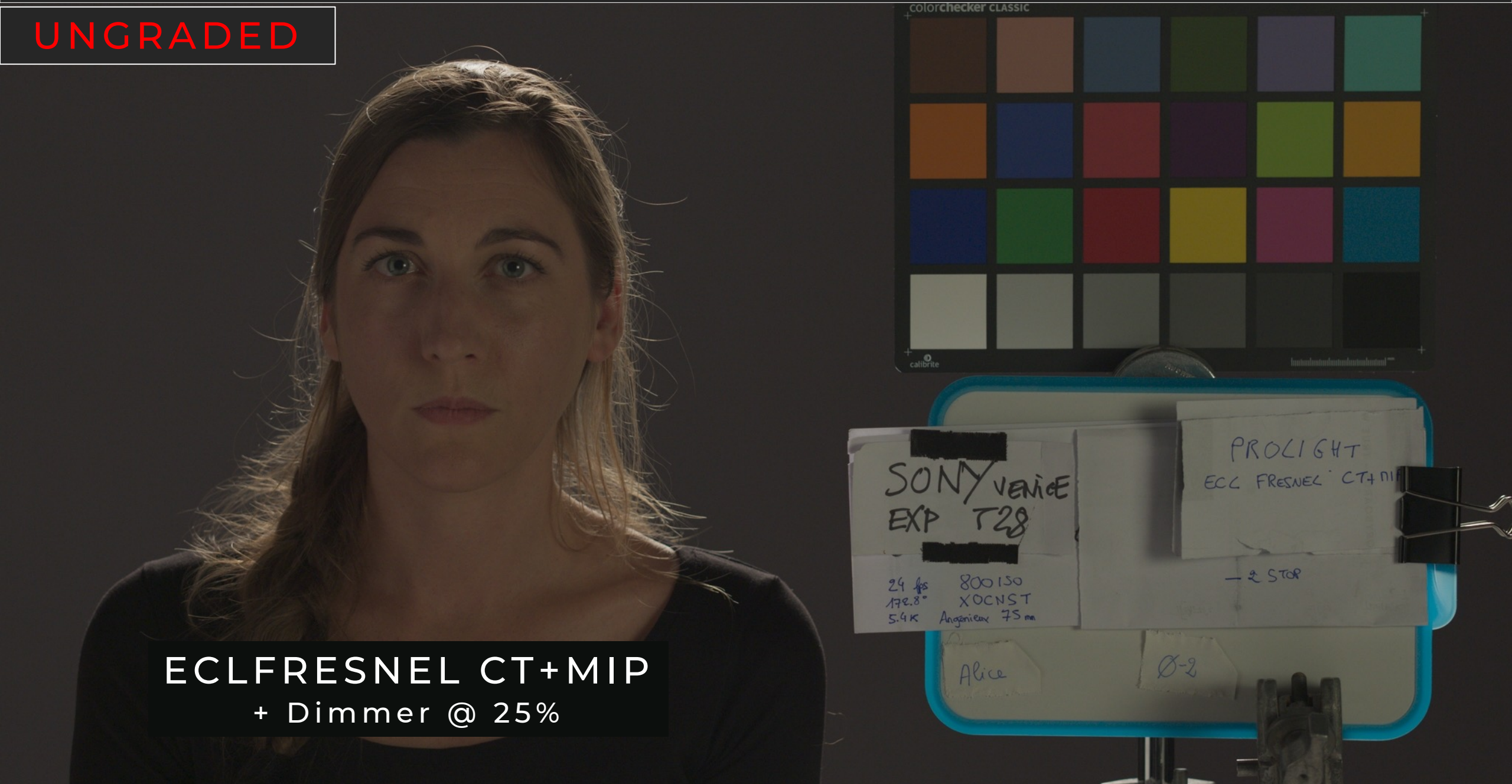
GRADED

ECLFRESNEL CT+MIP

Underexposed -2 stops

Images & données PROLIGHTS ECLFRESNEL CT+MIP Images & Data

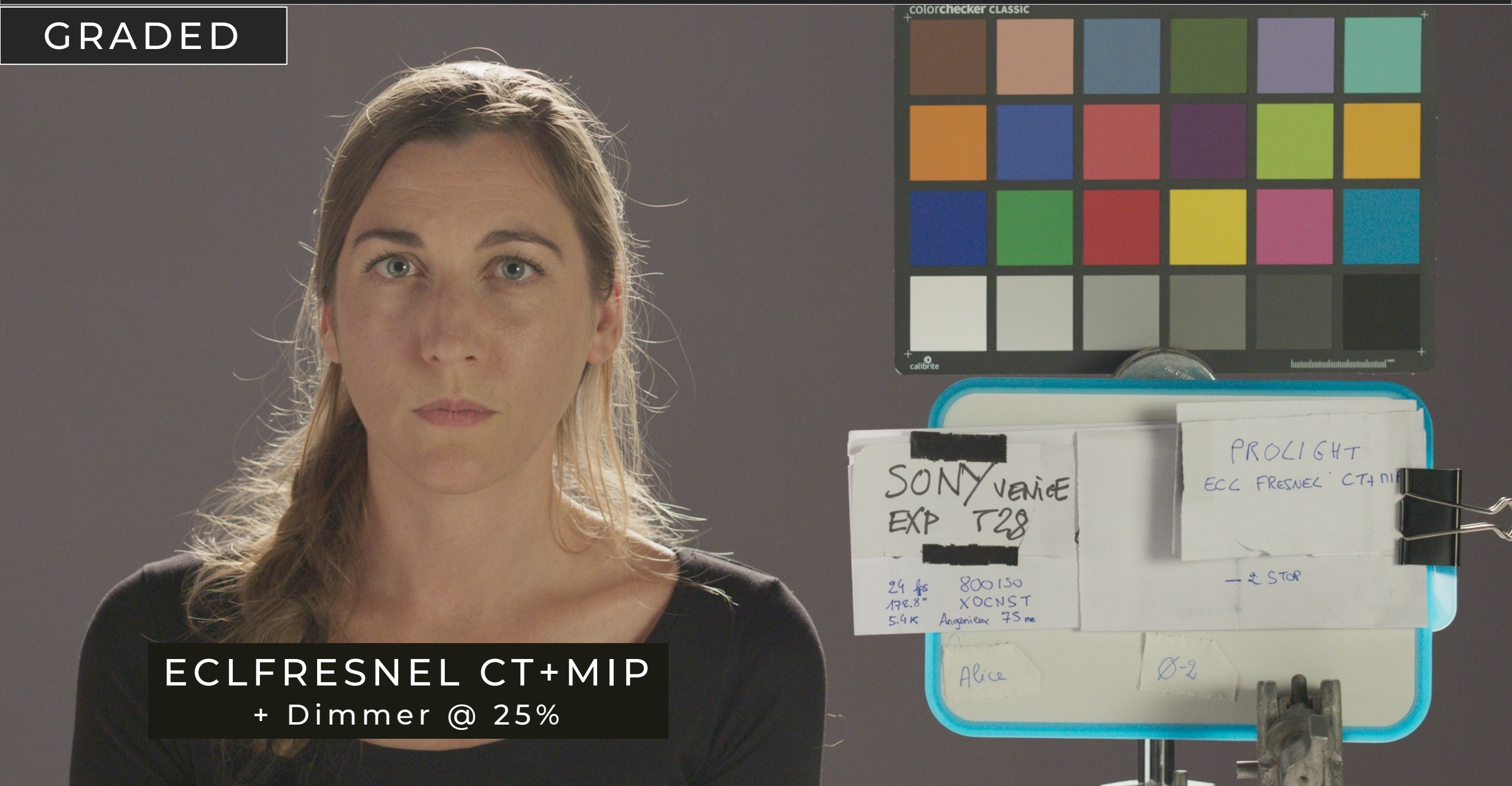
UNGRADED



ECLFRESNEL CT+MIP

+ Dimmer @ 25%

GRADED



ECLFRESNEL CT+MIP
+ Dimmer @ 25%

Images & données PROLIGHTS ECLFRESNEL CT+MIP Images & Data

Images & données PROLIGHTS ECLFRESNEL CT+MIP Images & Data

Les mesures comparatives de luminance doivent se faire sur la joue située droite caméra

Comparative measurements of luminance should be taken on the cheek located camera right.

GRADED

ECLFRESNEL CT+MIP
+ Dimmer @ 25%

ECLFRESNEL CT+MIP
Underexposed -2 stops

Images & données PROLIGHTS ECLFRESNEL CT+MIP Images & Data

Les mesures comparatives de luminance doivent se faire sur la joue située droite caméra

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UNGRADED

ECLFRESNEL CT+MIP
+ Dimmer @ 25%

ECLFRESNEL CT+MIP
Underexposed -2 stops

CAUCASIAN

Alice

SONY VENICE 2

ECLFRESNEL

CT+MIP

Comparison with

TUNGSTEN

TUNGSTEN REF.

SONY VENICE 2
GRADED

Images & données PROLIGHTS ECLFRESNEL CT+MIP Images & Data

Images & données PROLIGHTS ECLFRESNEL CT+MIP Images & Data

TUNGSTEN REF.

SONY VENICE 2

GRADED

ECLFRESNEL CT+MIP

CAUCASIAN

Alice

SONY VENICE 2

ECLFRESNEL

CT+MIP

UNDEREXPOSED (-2 STOPS ND 06)

Comparison with

DIMMER @ 25%

Images & données PROLIGHTS ECLFRESNEL CT+MIP Images & Data

UNGRADED

ECLFRESNEL CT+MIP

Underexposed -2 stops

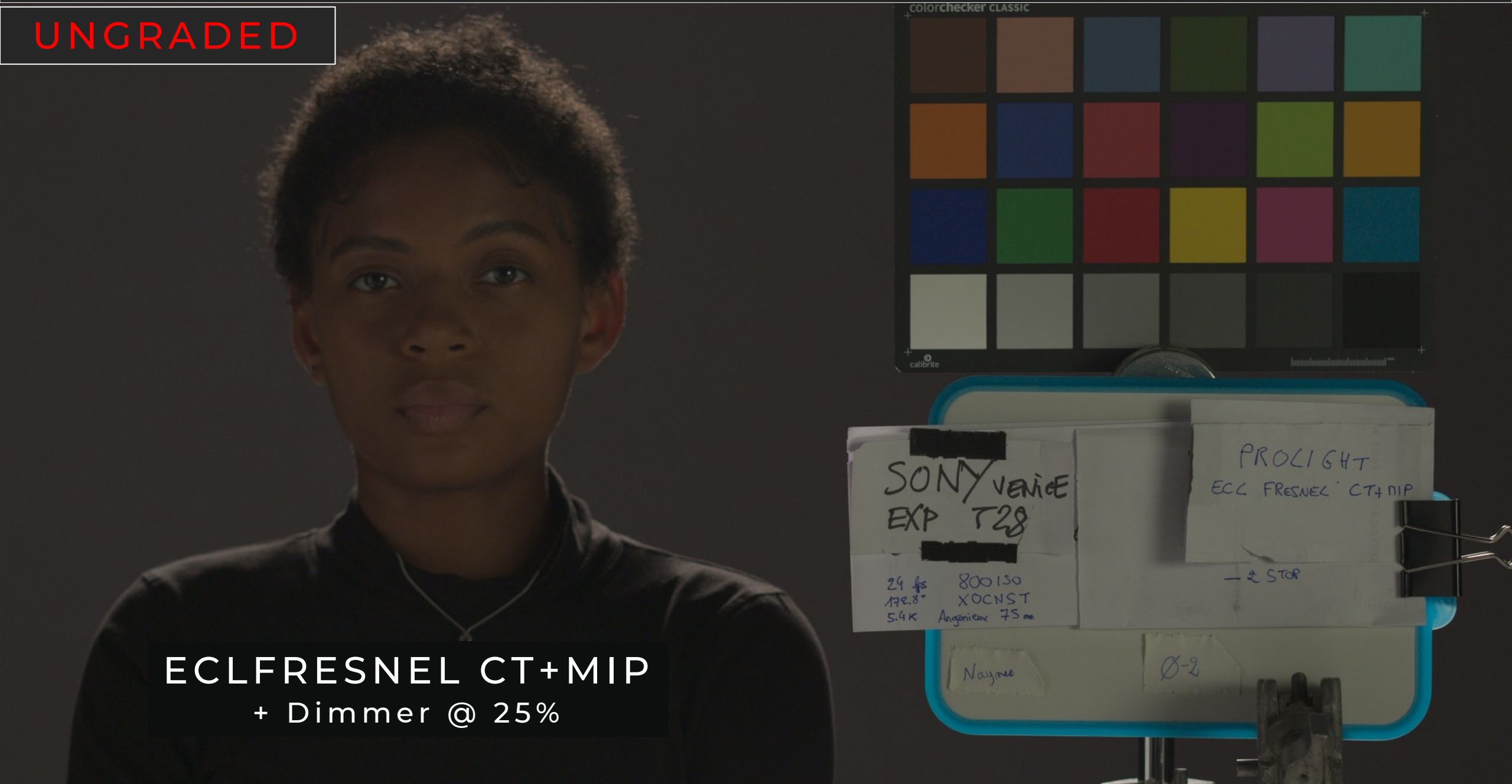
GRADED

ECLFRESNEL CT+MIP

Underexposed -2 stops

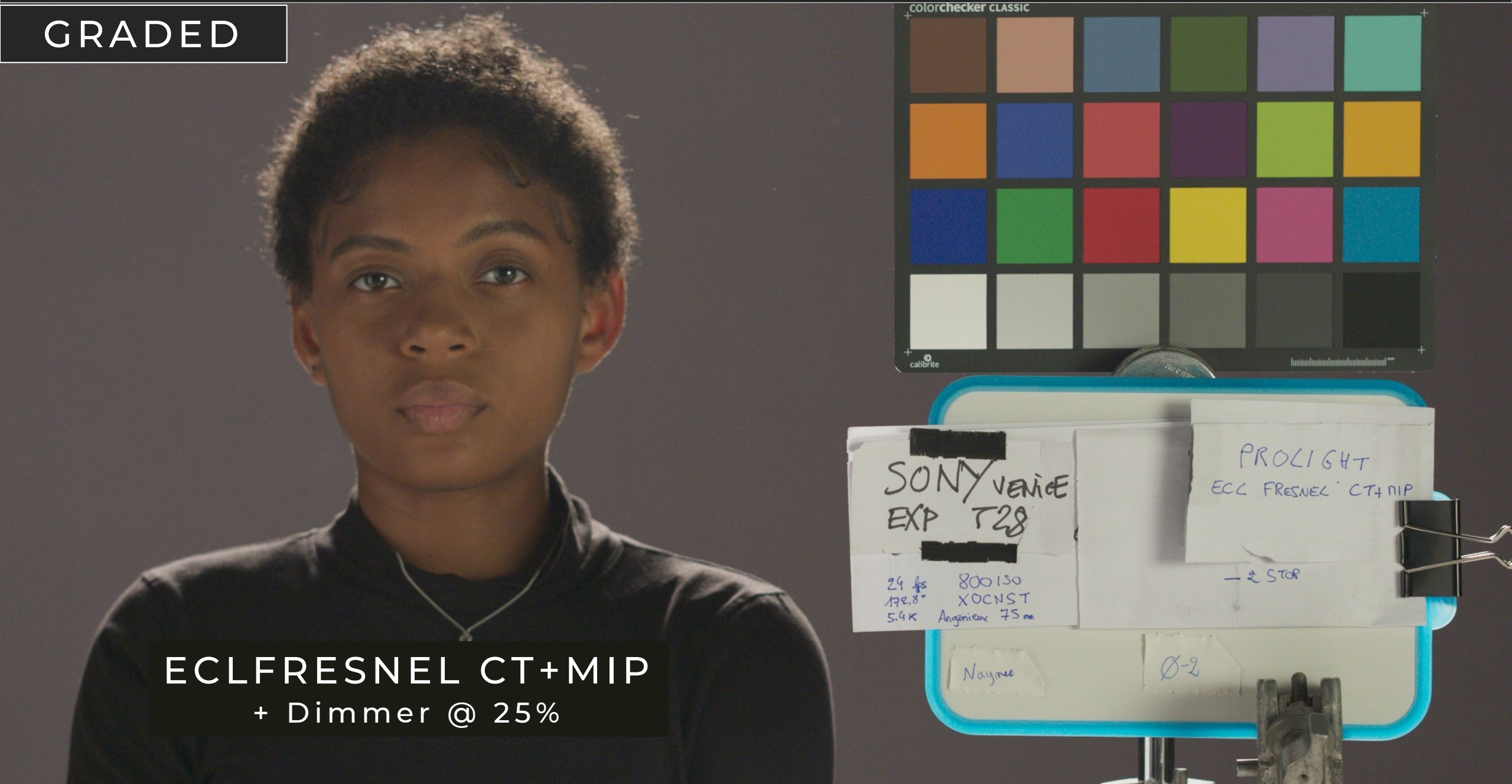
Images & données PROLIGHTS ECLFRESNEL CT+MIP Images & Data

UNGRADED



Images & données PROLIGHTS ECLFRESNEL CT+MIP Images & Data

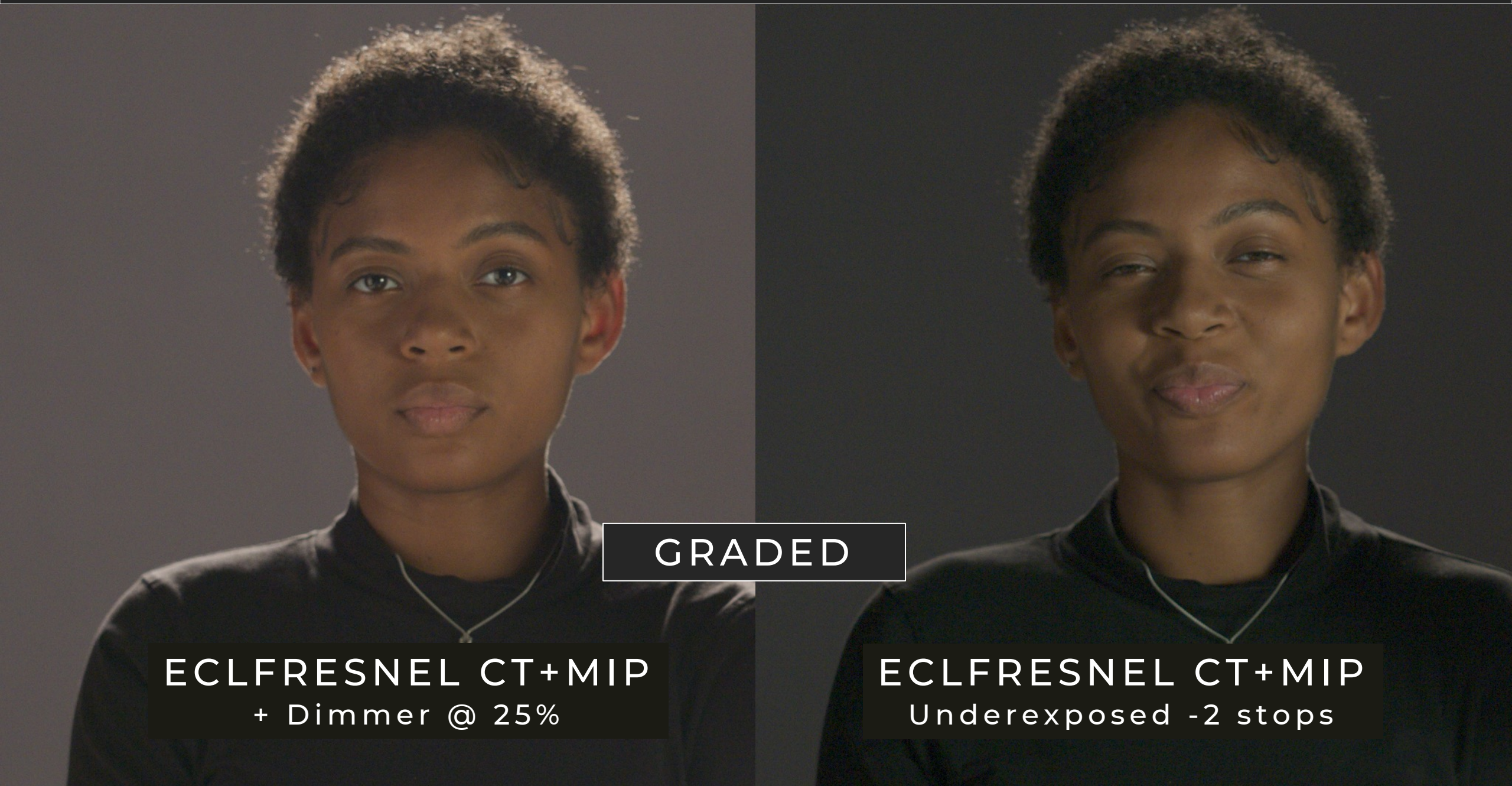
GRADED



ECLFRESNEL CT+MIP

+ Dimmer @ 25%

Images & données PROLIGHTS ECLFRESNEL CT+MIP Images & Data



Images & données PROLIGHTS ECLFRESNEL CT+MIP Images & Data

Les mesures comparatives de luminance doivent se faire sur la joue située droite caméra

Comparative measurements of luminance should be taken on the cheek located camera right.

GRADED

ECLFRESNEL CT+MIP
+ Dimmer @ 25%

ECLFRESNEL CT+MIP
Underexposed -2 stops

Images & données PROLIGHTS ECLFRESNEL CT+MIP Images & Data

Les mesures comparatives de luminance doivent se faire sur la joue située droite caméra

Comparative measurements of luminance should be taken on the cheek located camera right.

UNGRADED

ECLFRESNEL CT+MIP
+ Dimmer @ 25%

ECLFRESNEL CT+MIP
Underexposed -2 stops

Mesures

Explications & exemples

Measurements

Explanations & examples

Explications / Explanation

Type de données : Type of data:	Temp K *	CCT K *	Duv *	x *	y *	SSI *

Mesurées avec : Measured with:	JETI 1511 HiRes (JTI)	GOSSEN Mavospec Base (GSN)	SEKONIC C-800

Relatives à : Related to:	Power @ 100% indicated by the LED	Power @ 100% indicated by JETI	Power @ 50% indicated by JETI	Power @ 25% indicated by JETI

* Explications sur ces données en dernières pages
These data are explained on the last pages

* SSI : Index de similarité spectrale : expliqué dans le dossier JTL 2
SSI: Spectral Similarity Index: explained in the JTL 2 file

* Le calcul du SSI est basé sur une comparaison entre le SPD (Spectral Power Distribution) de la source à tester avec celui de l'illuminant standardisé CIE D55 (5503 K).

The calculation of the SSI is based on a comparison between the SPD (Spectral Power Distribution) of the source to be tested and that of the CIE D55 standard illuminant (5503 K).

Les comparaisons entre les différents appareils de mesure

- Le but de cette métrologie était aussi de comparer les mesures entre un appareil de laboratoire (JETI) et des appareils de terrain (Sekonic & Gossen)

Comparisons between different measuring equipment

- The aim of this metrology was also to compare measurements between a laboratory instrument (JETI) and field instruments (Sekonic & Gossen)

Mesures prises avec : Measurements taken with:	JETI 1511 HiRes (JTI)	Gossen Mavospec Base (GSN)	Sekonic C800

Explications / Explanation

Coordonnée x (CIE 1931 2°)
x coordinate (CIE 1931 2°)

Coordonnée y (CIE 1931 2°)
y coordinate (CIE 1931 2°)

Distance des coordonnées x y avec le corps noir
Distance of the x y coordinates from the black body

Type de données : Type of data:	Temp K	CCT K	Duv	x	y	SSI

Température de couleur
Color temperature

Température de couleur corrélée donnée par le LED
Correlated color temperature provided by the LED

Index de similarité spectrale
Spectral Similarity Index

Example on ECLFRESNEL CT+MIP

LIGHT			JETI 1511 HiRes					
Ref	Power	Temp K	CCT K	Duv	x	y	SPD TEST csv	SSI
ECL-FRESNEL-ICT+MIP	100%	CCT set on **LED** - 3200	3142	0,001	0,4288	0,4041	JTI_ECL-FRESNEL-ICT_MIP_P3200_**LED_100%**	76

Température de couleur corrélée donnée par le LED
Correlated color temperature provided by the LED

Type de données : Type of data:	Temp K	CCT K	Duv	x	y	SSI

Température de couleur corrélée donnée par le JETI
Correlated color temperature provided by the JETI

ECL-FRESNEL-ICT+MIP	100%	CCT set on **JETI** - 3200	3211	0,002	0,4249	0,4036	JTI_ECL-FRESNEL-ICT_MIP_P3200_**JTI_100%**	76

Example on ECLFRESNEL CT+MIP

LIGHT			JETI 1511 HiRes					
Ref	Power	Temp K	CCT K	Duv	x	y	SPD TEST csv	SSI
ECL-FRESNEL-ICT+MIP	100%	CCT set on **LED** - 3200	3142	0,001	0,4288	0,4041	JTI_ECL-FRESNEL-ICT_MIP_P3200 **LED_100%**	76

Relatives à : Related to:	Power @ 100% indicated by the LED	Power @ 100% indicated by JETI	Power @ 50% indicated by JETI	Power @ 25% indicated by JETI

ECL-FRESNEL-ICT+MIP	100%	CCT set on **JETI** - 3200	3211	0,002	0,4249	0,4036	JTI_ECL-FRESNEL-ICT_MIP_P32 0_**JTI_100%**	76

Pourquoi tester à différentes puissances ?
100%, 50%, 25% ?

/

Why test at different power levels?
100%, 50%, 25%?

- Dans le passé, on a souvent pu constater des différences de température de couleur et d'index de qualité lors des changement de puissance

- In the past, we have often seen differences in colour temperature and quality index when changing power.

Données relatives à : Data related to:	Power @ 100% indicated by the LED	Power @ 100% indicated by JETI	Power @ 50% indicated by JETI	Power @ 25% indicated by JETI

SSI Scores

La valeur SSI est toujours indiquée par rapport à une référence, laquelle est indiquée entre crochets, exemples :

The SSI value is always indicated in relation to a reference, which is indicated in square bracket, examples:

SSI[P3200] 86

SSI[CIE D55] 78

0 - 70	70 - 80	80 - 90	90 - 100
Problèmes de rendu de couleur Color rendering issues	Problèmes possibles Possible problems	Bon Good	Excellent Excellent

Mesures

Measurements

ECLFRESNEL CT+MIP

350 W

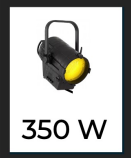
3200 K

5600 K

ECLFRESNEL CT+LIP

600 W

3200 K



ECLFRESNEL CT+MIP

LIGHT			JETI 1511 HiRes					
Ref	Power	Temp K	CCT K	Duv	x	y	SPD TEST	SSI
VISUAL REF. TUNGSTEN	100%	3200	3012	0,001	0,4372	0,406	TUNGSTEN	93
ECL-FRESNEL-ICT+MIP	100%	CCT set on **LED** - 3200	3142	0,001	0,4288	0,4041	JTI_ECL-FRESNEL-ICT_MIP_P3200_**LED_100%**	76
ECL-FRESNEL-ICT+MIP	100%	CCT set on **JETI** - 3200	3211	0,002	0,4249	0,4036	JTI_ECL-FRESNEL-ICT_MIP_P3200_**JTI_100%**	76
ECL-FRESNEL-ICT+MIP	50%	CCT set on **JETI** - 3200	3056	0,005	0,4396	0,4165	JTI_ECL-FRESNEL-ICT_MIP_P3200_**JTI_50%**	72
ECL-FRESNEL-ICT+MIP	25%	CCT set on **JETI** - 3200	3143	0,007	0,4368	0,4217	JTI_ECL-FRESNEL-ICT_MIP_P3200_**JTI_25%**	72

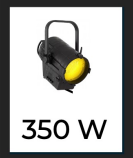
SEKONIC C-800			GOSSEN MAVOSPEC BASE			
CCT	Duv	SSI	CCT	Duv	SSI	SPD TEST
3023	0,0002	96	-	-	-	VISUAL REF-TUNGSTEN
3202	0,0022	78	3145	0,0017	78	GSN_ECL-FRESNEL-ICT_MIP_P3200_**LED_100%**
3264	0,0026	78	3222	0,0021	79	GSN_ECL-FRESNEL-ICT_MIP_P3200_**JTI_100%**
3102	0,0058	74	3049	0,0047	74	GSN_ECL-FRESNEL-ICT_MIP_P3200_**JTI_50%**
3185	0,0083	74	3133	0,0071	74	GSN_ECL-FRESNEL-ICT_MIP_P3200_**JTI_25%**

3200 K

ECLFRESNEL CT+LIP

LIGHT			JETI 1511 HiRes					
Ref	Power	Temp K	CCT K	Duv	x	y	SPD TEST	SSI
VISUAL REF. TUNGSTEN	100%	3200	3012	0,001	0,4372	0,406	TUNGSTEN	93
ECL-FRESNEL-ICT+LIP	100%	CCT set on **LED** - 3200	3264	0,001	0,4205	0,4001	JTI_ECL-FRESNEL-ICT_LIP_P3200_**LED_100%**	75
ECL-FRESNEL-ICT+LIP	100%	CCT set on **JETI** - 3200	3245	0,001	0,422	0,4012	JTI_ECL-FRESNEL-ICT_LIP_P3200_**JTI_100%**	77
ECL-FRESNEL-ICT+LIP	50%	CCT set on **JETI** - 3200	3218	0,001	0,4237	0,4019	JTI_ECL-FRESNEL-ICT_LIP_P3200_**JTI_50%**	76
ECL-FRESNEL-ICT+LIP	25%	CCT set on **JETI** - 3200	3197	0,001	0,4249	0,402	JTI_ECL-FRESNEL-ICT_LIP_P3200_**JTI_25%**	75

SEKONIC C-800			GOSSEN MAVOSPEC BASE			
CCT	Duv	SSI	CCT	Duv	SSI	SPD TEST
3023	0,0002	96	-	-	-	VISUAL REF-TUNGSTEN
3336	0,0015	76	3276	0,0014	76	GSN_ECL-FRESNEL-ICT_LIP_P3200_**LED_100%**
3293	0,0016	78	3225	0,0012	79	GSN_ECL-FRESNEL-ICT_LIP_P3200_**JTI_100%**
3275	0,002	77	3218	0,001	77	GSN_ECL-FRESNEL-ICT_LIP_P3200_**JTI_50%**
3246	0,0018	76	3189	0,0009	77	GSN_ECL-FRESNEL-ICT_LIP_P3200_**JTI_25%**



ECLFRESNEL CT+MIP

5600 K

LIGHT			JETI 1511 HiRes					
Ref	Power	Temp K	CCT K	Duv	x	y	SPD TEST	SSI
ECL-FRESNEL-ICT+MIP	100%	CCT set on **LED** - 5600	5399	0,004	0,335	0,3517	JTI_ECL-FRESNEL-ICT_MIP_P5600_JT_P5600_**LED_100%**	71
ECL-FRESNEL-ICT+MIP	100%	CCT set on **JETI** - 5600	5612	0,004	0,3299	0,3474	JTI_ECL-FRESNEL-ICT_MIP_P5600_JT__P5600_**JTI_100%**	71
ECL-FRESNEL-ICT+MIP	50%	CCT set on **JETI** - 5600	6013	0,009	0,3207	0,3484	JTI_ECL-FRESNEL-ICT_MIP_P5600_JT__P5600_**JTI_50%**	70
ECL-FRESNEL-ICT+MIP	25%	CCT set on **JETI** - 5600	5755	0,005	0,3266	0,3463	JTI_ECL-FRESNEL-ICT_MIP_P5600_JT__P5600_**JTI_25%**	70

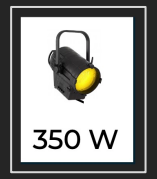
SEKONIC C-800			GOSSEN MAVOSPEC BASE			
CCT	Duv	SSI	CCT	Duv	SSI	SPD TEST
5586	0,0043	71	5334	0,0051	73	GSN_ECL-FRESNEL-ICT_MIP_P5600__**LED_100**
5824	0,0045	71	5940	-0,0076	84	GSN_ECL-FRESNEL-ICT_MIP_P5600_**JTI_100%**
6178	0,0087	70	5607	0,0061	72	GSN_ECL-FRESNEL-ICT_MIP_P5600_**JTI_50%**
6169	0,0135	70	6024	0,0136	71	GSN_ECL-FRESNEL-ICT_MIP_P5600_**JTI_25%**

ECLFRESNEL CT+LIP

5600 K

LIGHT			JETI 1511 HiRes					
Ref	Power	Temp K	CCT K	Duv	x	y	SPD TEST	SSI
ECL-FRESNEL-ICT+LIP	100%	CCT set on **LED** - 5600	5623	0,004	0,3297	0,3461	JTI_ECL-FRESNEL-ICT_LIP_P5600_**LED_100%**	71
ECL-FRESNEL-ICT+LIP	100%	CCT set on **JETI** - 5600	5623	0,004	0,3297	0,3461	JTI_ECL-FRESNEL-ICT_LIP_P5600_**JTI_100%**	71
ECL-FRESNEL-ICT+LIP	50%	CCT set on **JETI** - 5600	5637	0,004	0,3293	0,346	JTI_ECL-FRESNEL-ICT_LIP_P5600_**JTI_50%**	71
ECL-FRESNEL-ICT+LIP	25%	CCT set on **JETI** - 5600	5597	0,004	0,3303	0,3462	JTI_ECL-FRESNEL-ICT_LIP_P5600_**JTI_25%**	70

SEKONIC C-800			GOSSEN MAVOSPEC BASE			
CCT	Duv	SSI	CCT	Duv	SSI	SPD TEST
5800	0,0036	71	5649	0,004	72	GSN_ECL-FRESNEL-ICT_LIP_P5600__**LED_100**
5800	0,0036	71	5649	0,004	72	GSN_ECL-FRESNEL-ICT_LIP_P5600_**JTI_100%**
5822	0,0044	71	5776	0,0016	77	GSN_ECL-FRESNEL-ICT_LIP_P5600_**JTI_50%**
5760	0,0038	71	5523	0,0043	72	GSN_ECL-FRESNEL-ICT_LIP_P5600_**JTI_25%**



ECLFRESNEL CT+MIP +LIP

3200 K

Spectra & SSI

5600 K

TM-30-18 & CRI

JETI

Images & données PROLIGHTS ECLFRESNEL CT+MIP Images & Data

Manufacturer

PROJECTOR

Power: 100% - CCT set on JETI

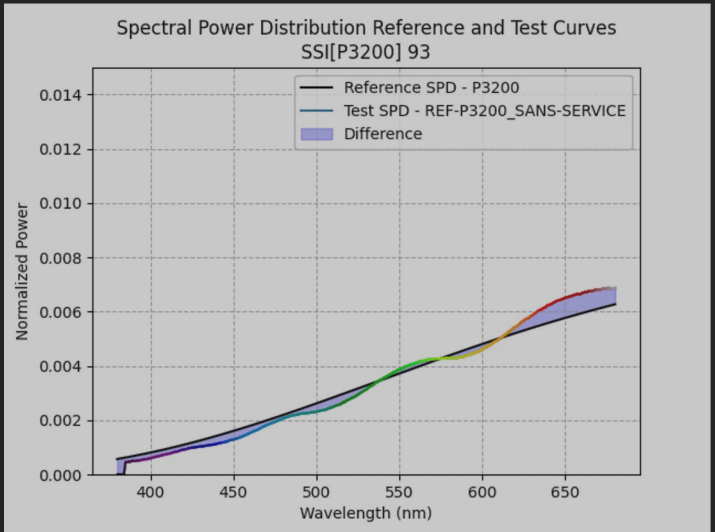
CCT 3012 Duv 0,001

CIE 1931 2° x 0.4372 y 0.4060

CRI Ra 97.51

IES TM-30-18 Rf 98 Rg 100

SSI[P3200] 93

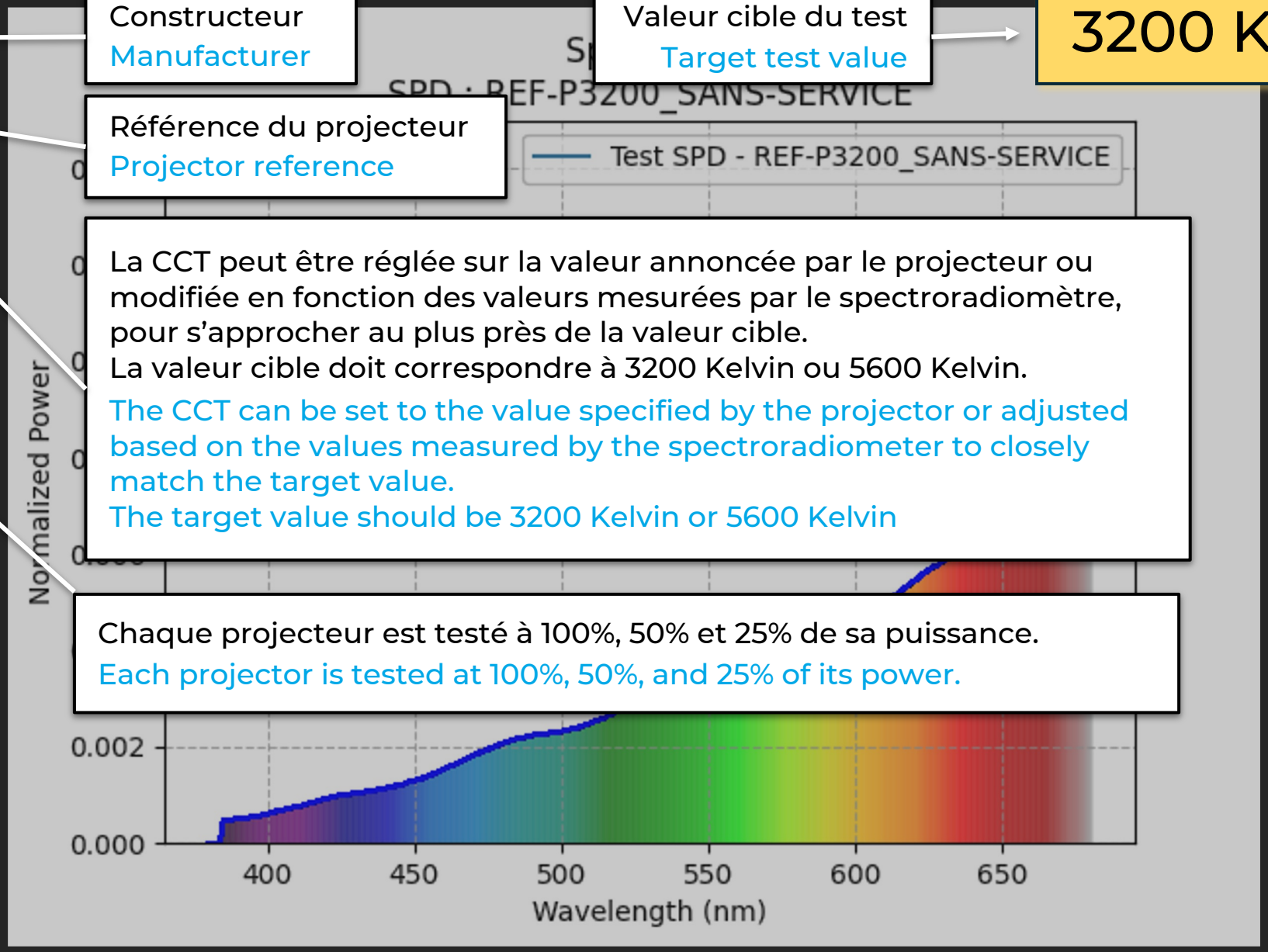


Constructeur
Manufacturer

Référence du projecteur
Projector reference

Valeur cible du test
Target test value

3200 K



La CCT peut être réglée sur la valeur annoncée par le projecteur ou modifiée en fonction des valeurs mesurées par le spectroradiomètre, pour s'approcher au plus près de la valeur cible.
La valeur cible doit correspondre à 3200 Kelvin ou 5600 Kelvin.

The CCT can be set to the value specified by the projector or adjusted based on the values measured by the spectroradiometer to closely match the target value.
The target value should be 3200 Kelvin or 5600 Kelvin

Chaque projecteur est testé à 100%, 50% et 25% de sa puissance.

Each projector is tested at 100%, 50%, and 25% of its power.

Images & données PROLIGHTS ECLFRESNEL CT+MIP Images & Data

Manufacturer

PROJECTOR

Power: 100% - CCT set on JETI

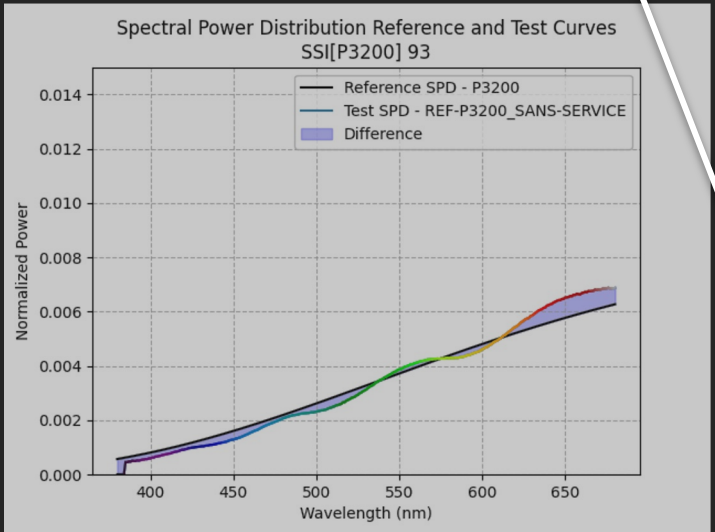
CCT 3012 Duv 0,001

CIE 1931 2° x 0.4372 y 0.4060

CRI Ra 97.51

IES TM-30-18 Rf 98 Rg 100

SSI[P3200] 93



CCT et Duv mesurés par le spectroradiomètre
CCT and Duv measured by the spectroradiometer

3200 K

https://cie.co.at/publications/colorimetry-part-1-cie-standard-colorimetric-observers-0
Coordonnées en x et y basées sur l'observateur CIE 1931 de référence 2°
Coordinates in x and y based on the CIE 1931 standard observer 2°

CIE 13.3-1995 CRI Color Rendering Index
R_a est la valeur de l'indice de rendu des couleurs basé sur la valeur moyenne des 8 premières couleurs de test. C'est la Valeur CRI usuelle.
La valeur **R_e** peut être trouvée dans l'annexe des mesures.
R_a is the color rendering index value based on the average of the first 8 test colors. This is the usual CRI value.
The R_e value can be found in the appendix of the measurements.

IES TM-30-18 https://webstore.ansi.org/standards/iesna/ansiiestm3020
Color fidelity **R_f** mesure la ressemblance ou la dissemblance des couleurs aux couleurs références (similaire au CRI).
Gamut **R_g** Donne le niveau de saturation de la couleur. Les valeurs inférieures à 100 indiquent une saturation inférieure à la référence.
Color fidelity R_f measures the similarity or dissimilarity of colors to the reference colors (similar to CRI).
Gamut R_g indicates the level of color saturation. Values below 100 indicate a saturation lower than the reference.

Images & données PROLIGHTS ECLFRESNEL CT+MIP Images & Data

Manufacturer

PROJECTOR

Power: 100% - CCT set on JETI

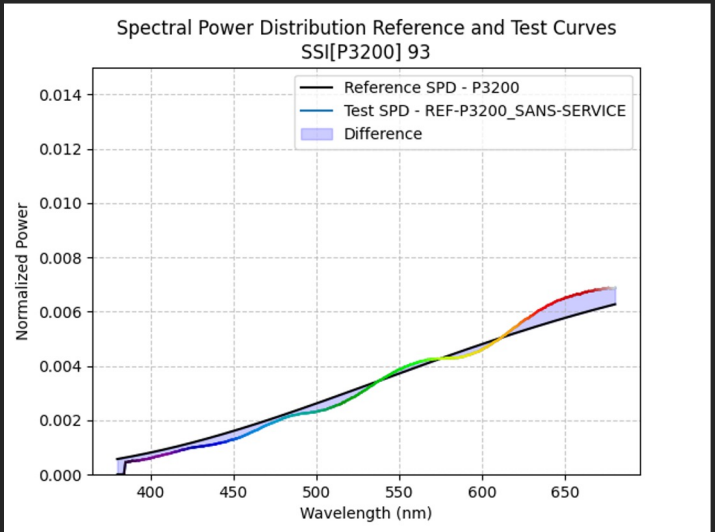
CCT 3012 Duv 0,001

CIE 1931 2° x 0.4372 y 0.4060

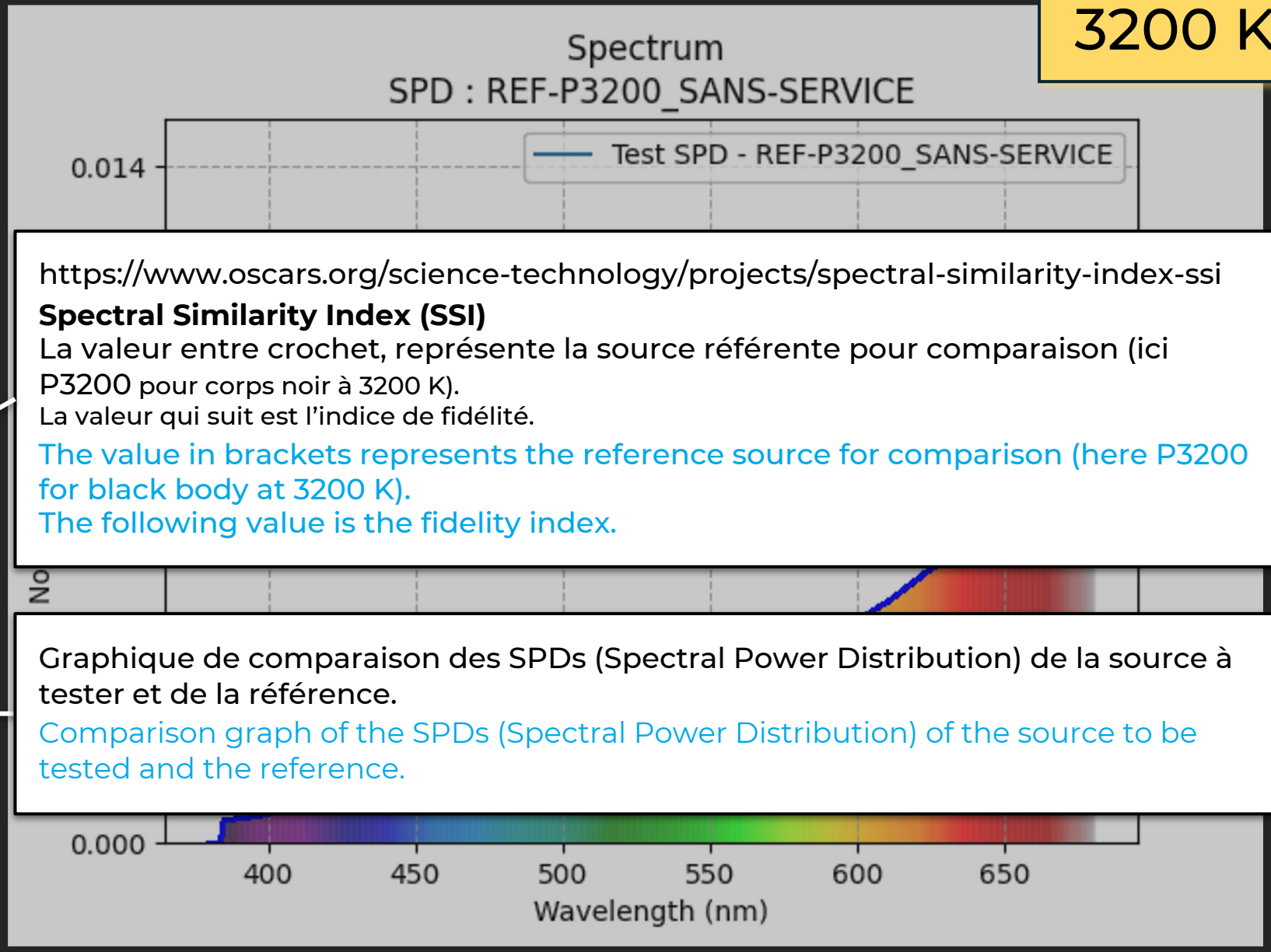
CRI Ra 97.51

IES TM-30-18 Rf 98 Rg 100

SSI[P3200] 93



3200 K



https://www.oscars.org/science-technology/projects/spectral-similarity-index-ssi

Spectral Similarity Index (SSI)

La valeur entre crochet, représente la source référente pour comparaison (ici P3200 pour corps noir à 3200 K).

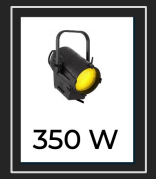
La valeur qui suit est l'indice de fidélité.

The value in brackets represents the reference source for comparison (here P3200 for black body at 3200 K).

The following value is the fidelity index.

Graphique de comparaison des SPDs (Spectral Power Distribution) de la source à tester et de la référence.

Comparison graph of the SPDs (Spectral Power Distribution) of the source to be tested and the reference.



ECLFRESNEL CT+MIP/+LIP

3200 K

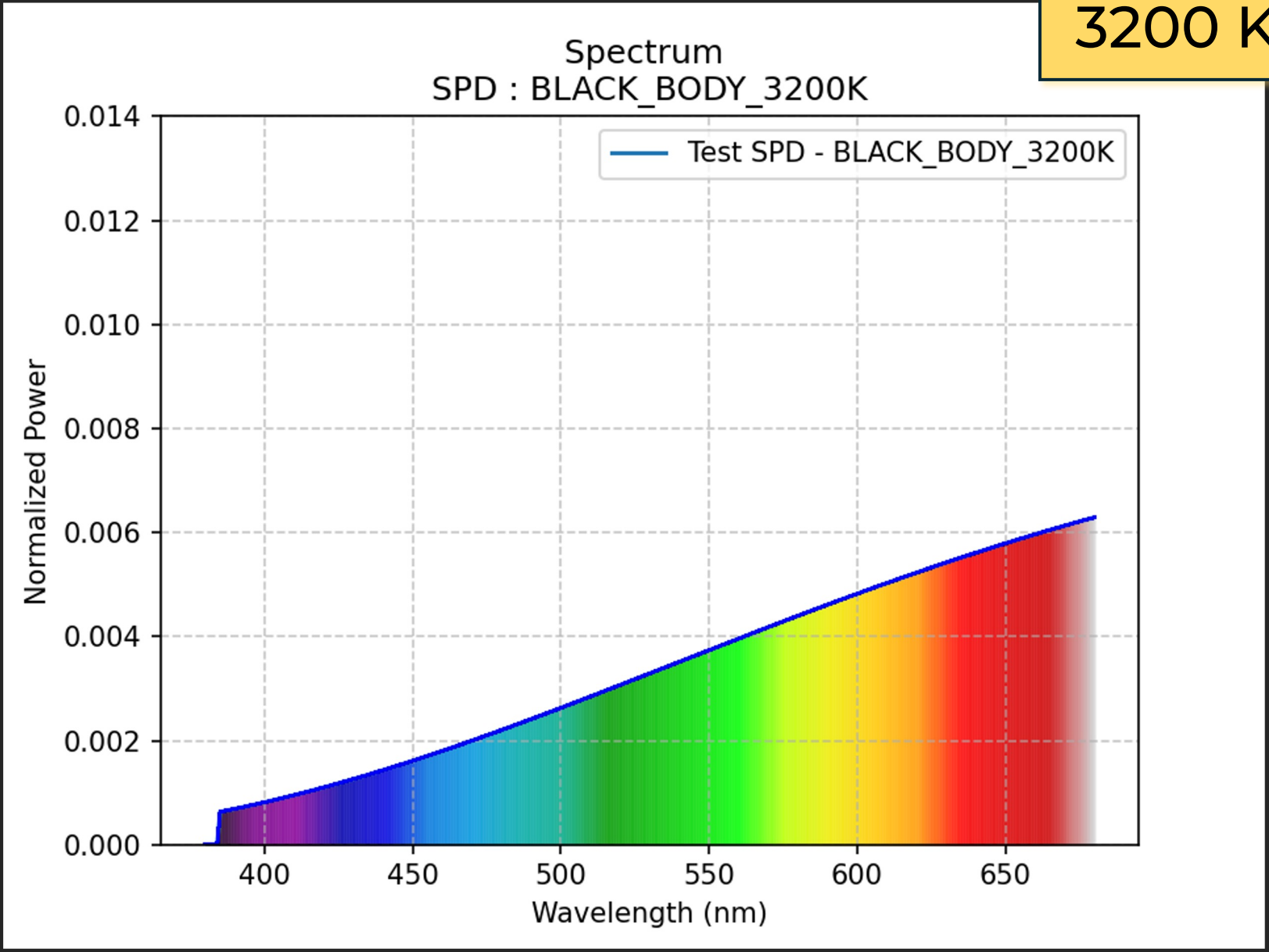
JETI

SSI REFERENCE

Corps noir / Black body

3200 K

3200 K



SOURCE TUNGSTEN comparative

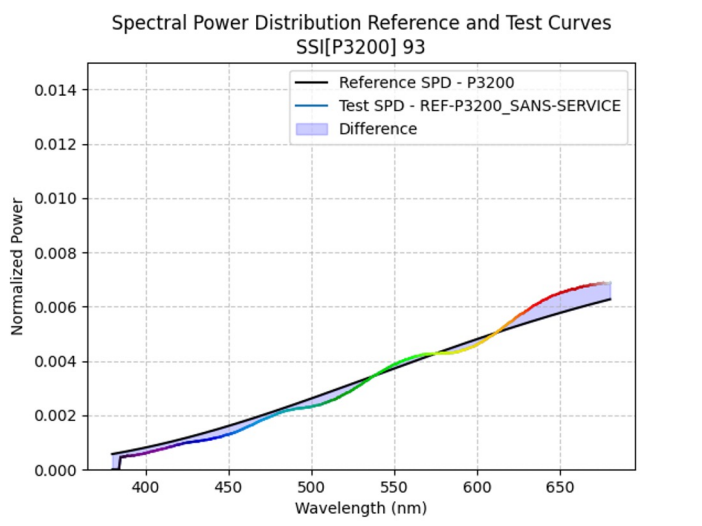
CCT 3012 Duv 0,001

CIE 1931 2° x 0.4372 y 0.4060

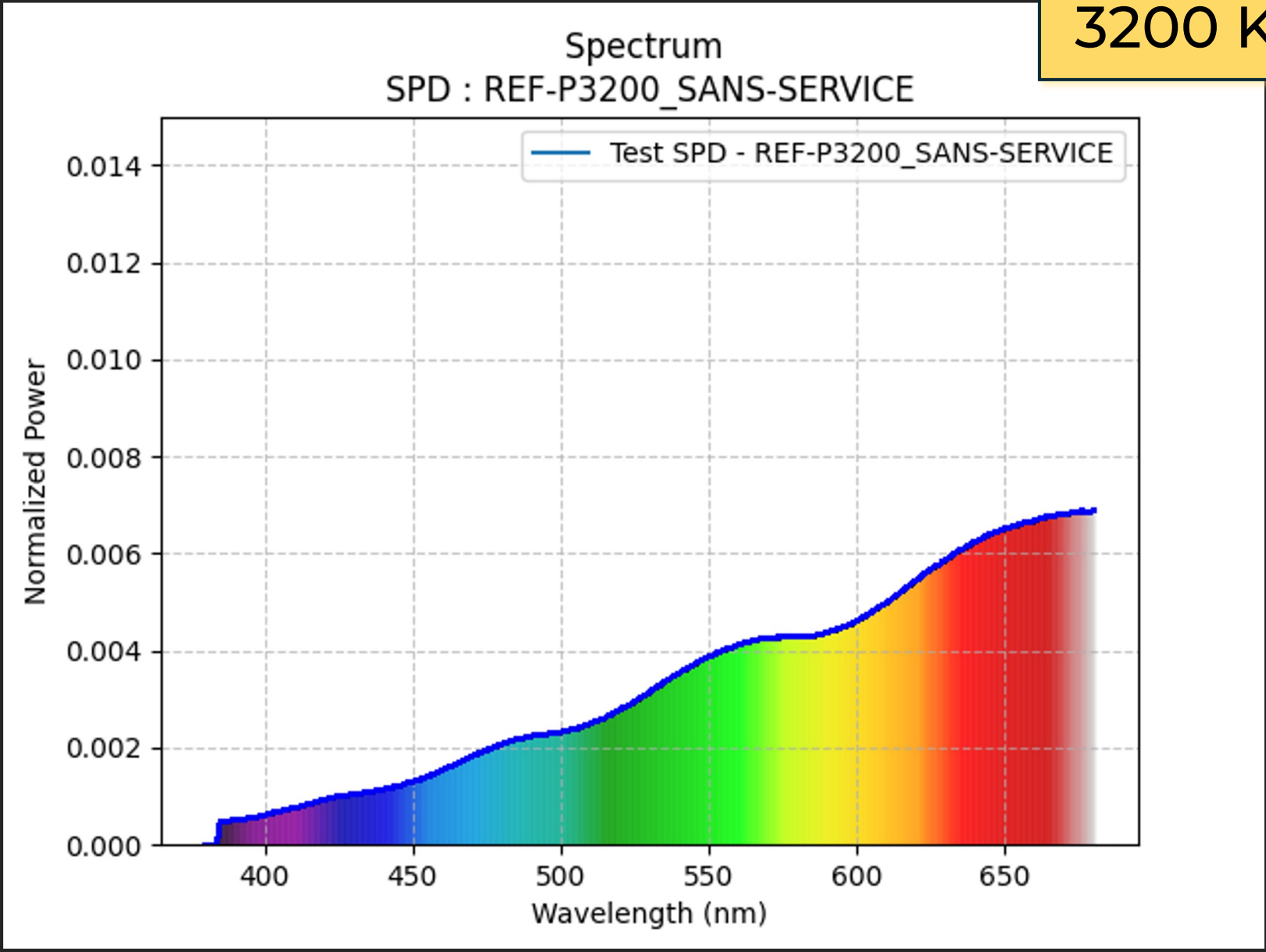
CRI Ra 97.51

IES TM-30-18 Rf 98 Rg 100

SSI[P3200] 93



3200 K



PROLIGHTS

ECLFRESNEL CT+MIP

Power: 100% - CCT set on LED

350 W

3200 K

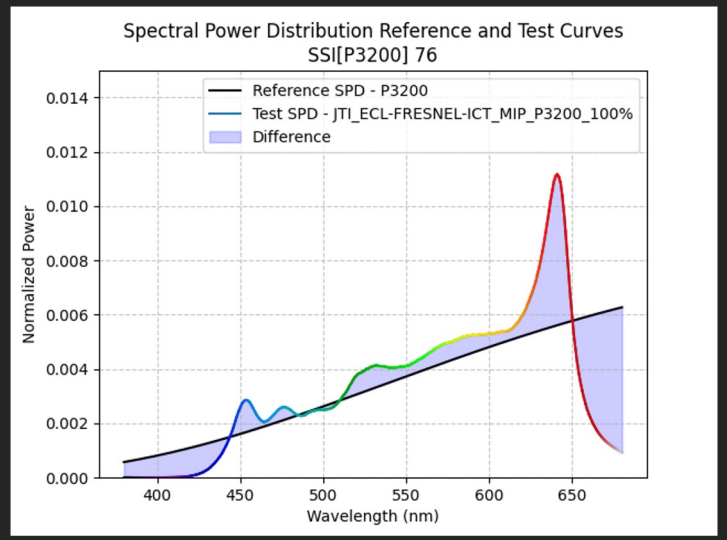
CCT 3142 Duv 0,001

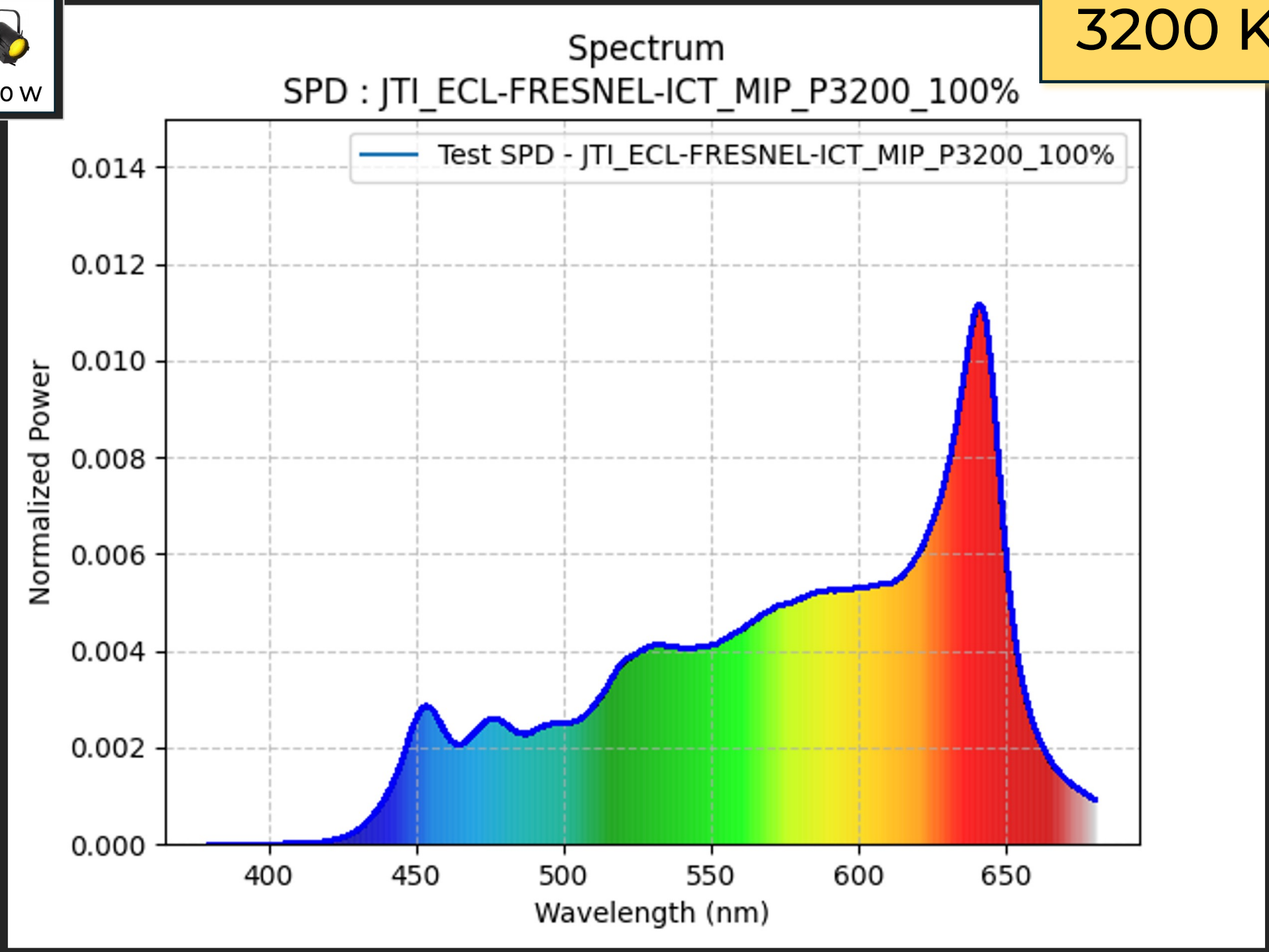
CIE 1931 2° x 0.4288 y 0.4041

CRI Ra 98.05

IES TM-30-18 Rf 94 Rg 99

SSI[P3200] 76





PROLIGHTS

ECLFRESNEL CT+LIP

Power: 100% - CCT set on LED

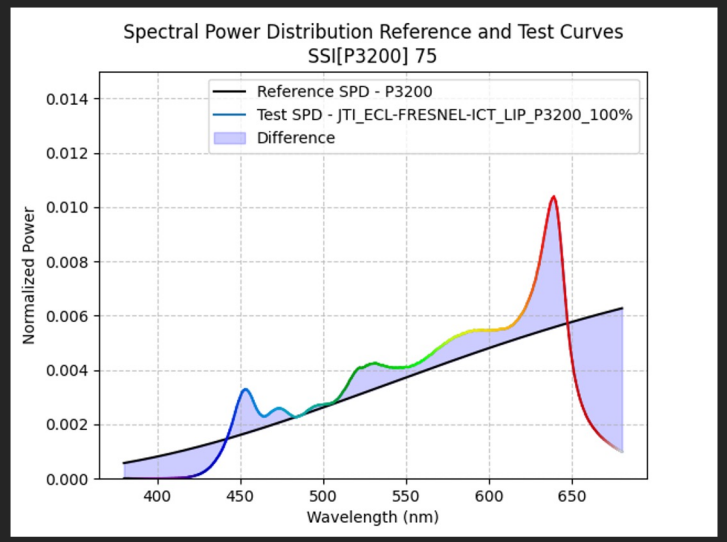
CCT 3264 Duv 0,001

CIE 1931 2° x 0.4205 y 0.4001

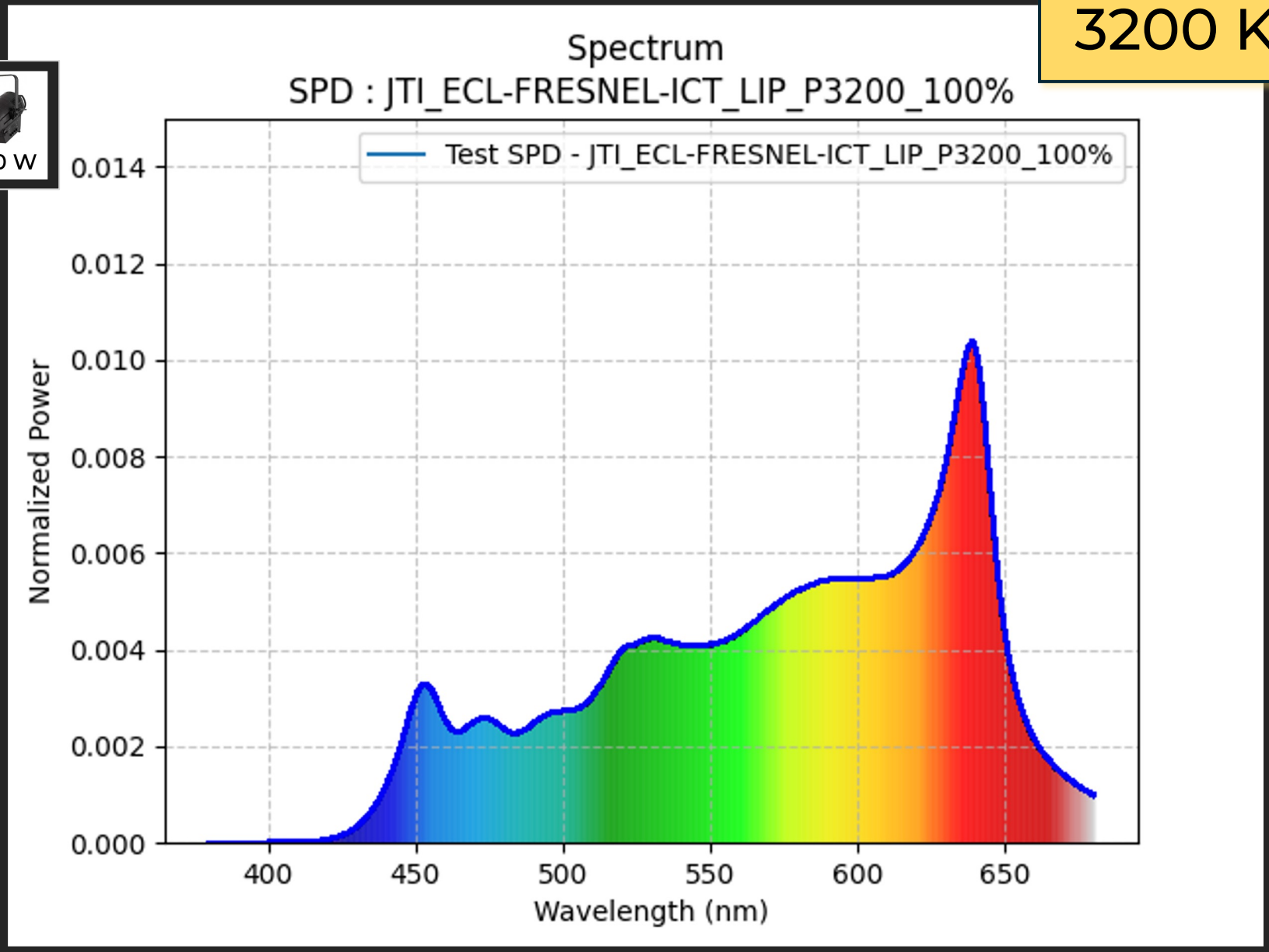
CRI Ra 96.72

IES TM-30-18 Rf 93 Rg 99

SSI[P3200] 75



3200 K



PROLIGHTS

ECLFRESNEL CT+MIP

Power: 100% - CCT set on JETI

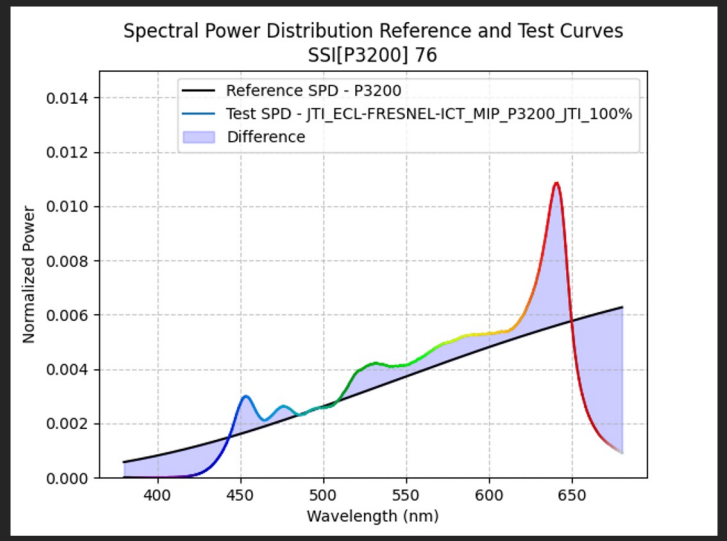
CCT 3211 Duv 0,002

CIE 1931 2° x 0.4249 y 0.4036

CRI Ra 97.83

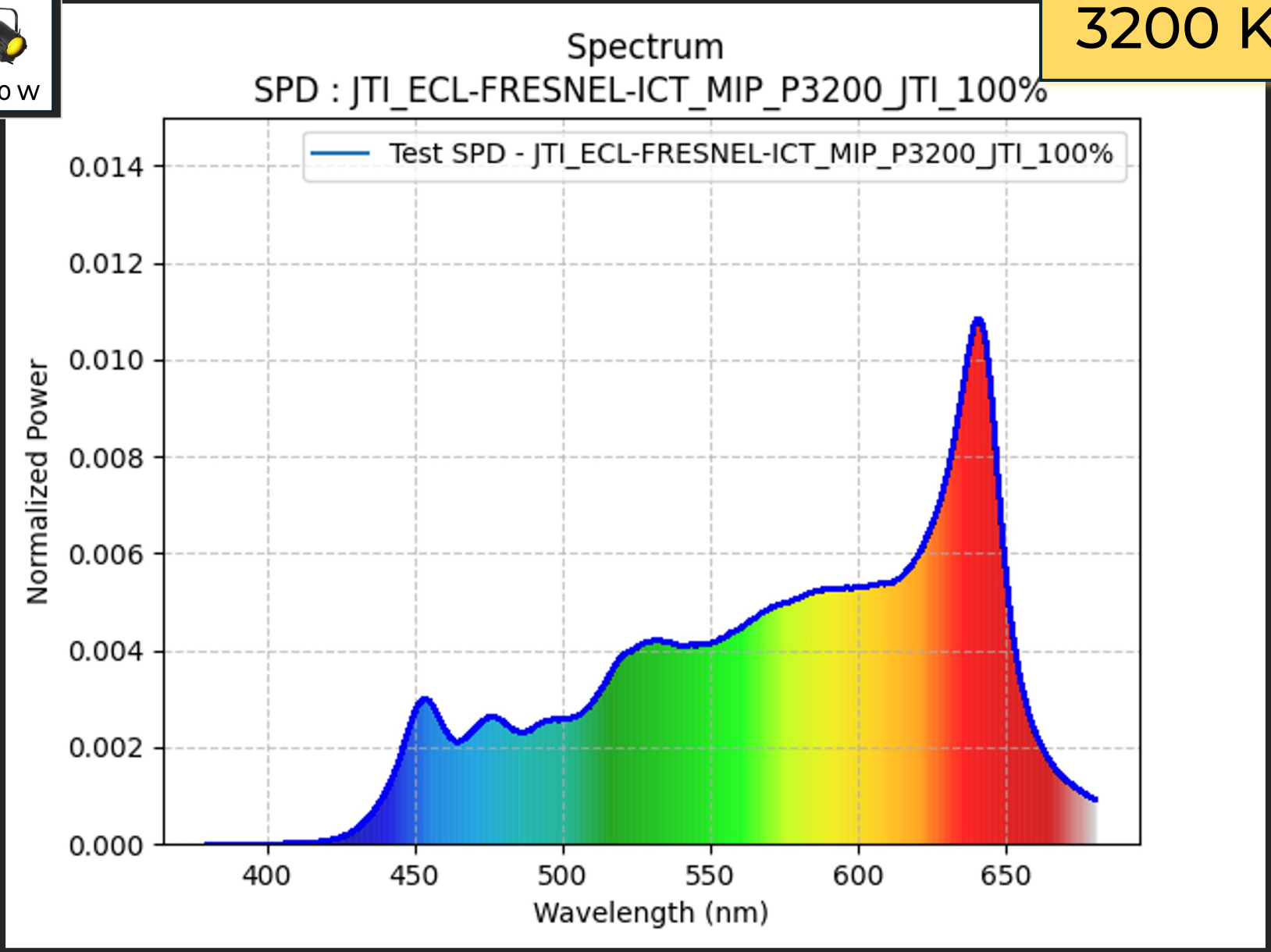
IES TM-30-18 Rf 93 Rg 99

SSI[P3200] 76



350 W

3200 K



PROLIGHTS

ECLFRESNEL LIP

Power: 100% - CCT set on JETI

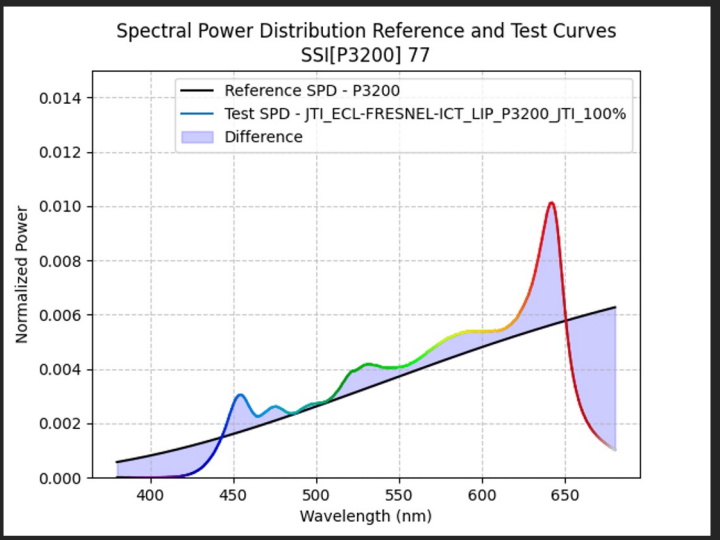
CCT 3245 Duv 0,001

CIE 1931 2° x 0.4220 y 0.4012

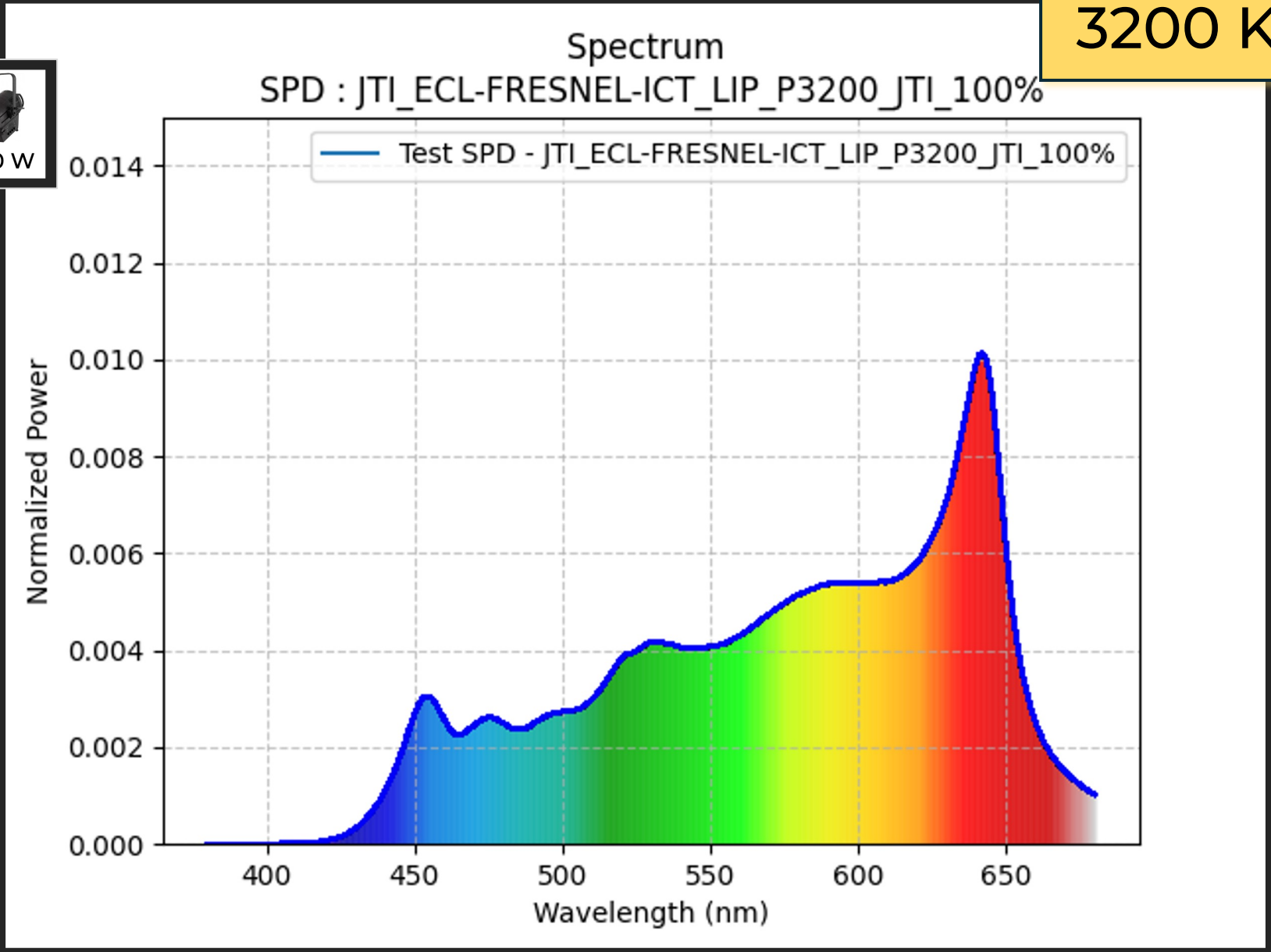
CRI Ra 97.46

IES TM-30-18 Rf 93 Rg 98

SSI[P3200] 77



3200 K



Images & données PROLIGHTS ECLFRESNEL CT+MIP Images & Data

PROLIGHTS

ECLFRESNEL CT+MIP

Power: 50% - CCT set on JETI

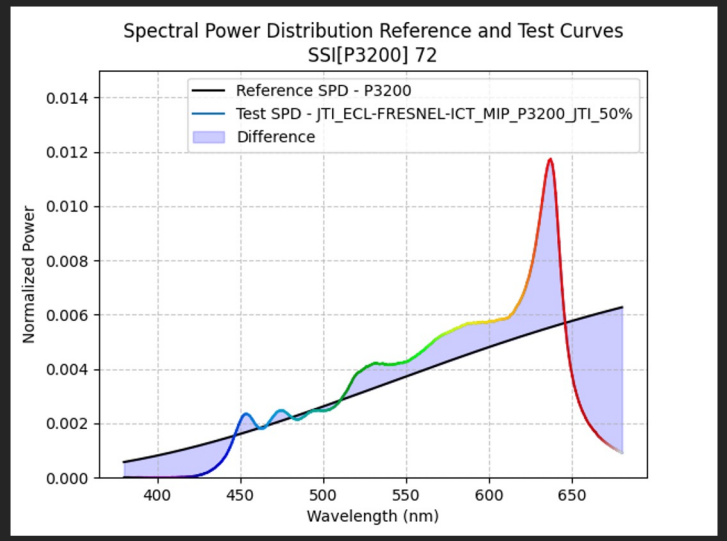
CCT 3056 Duv 0,005

CIE 1931 2° x 0.4396 y 0.4165

CRI Ra 94.29

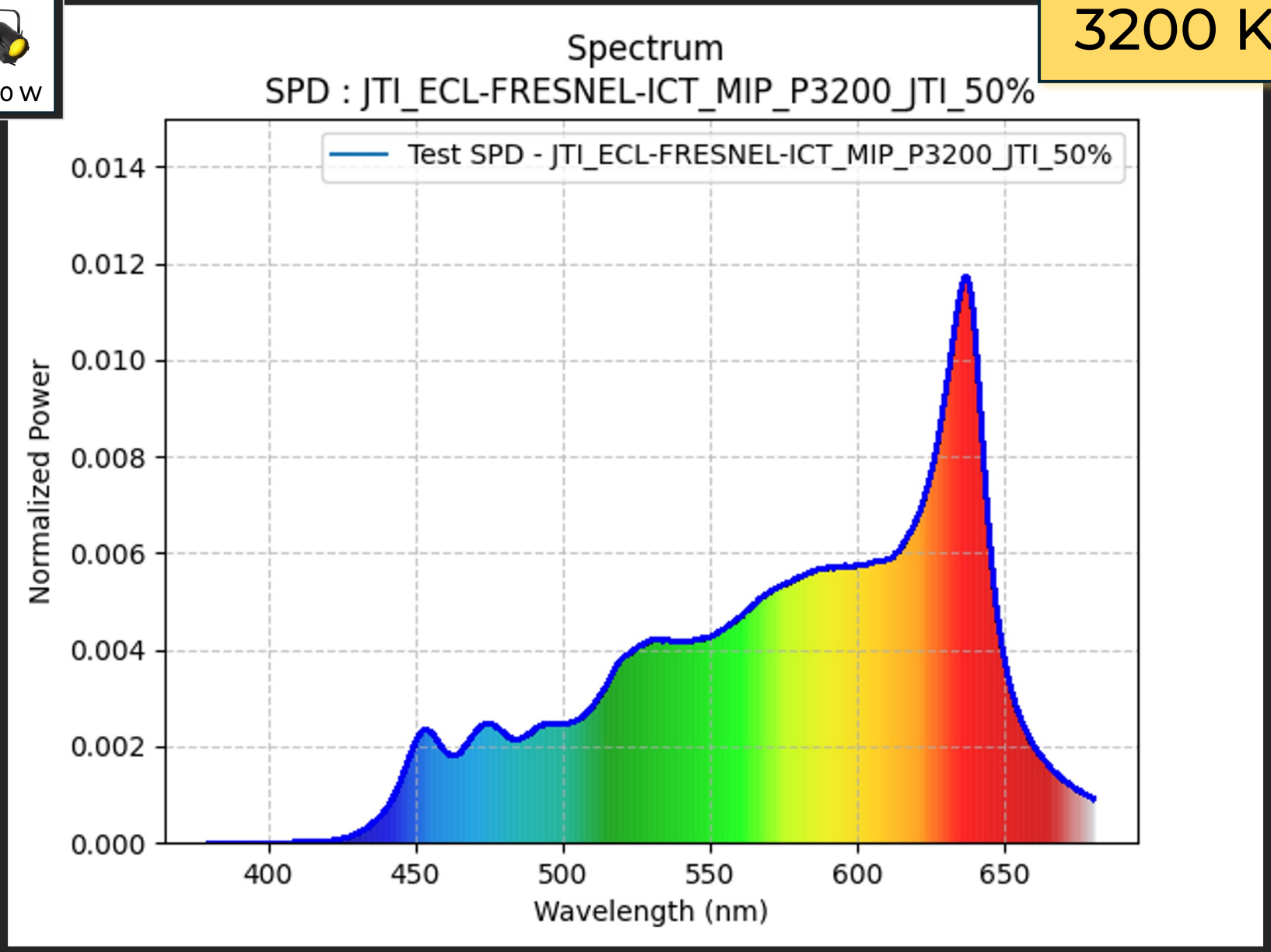
IES TM-30-18 Rf 90 Rg 95

SSI[P3200] 72



350 W

3200 K



PROLIGHTS

ECLFRESNEL LIP

Power: 50% - CCT set on JETI

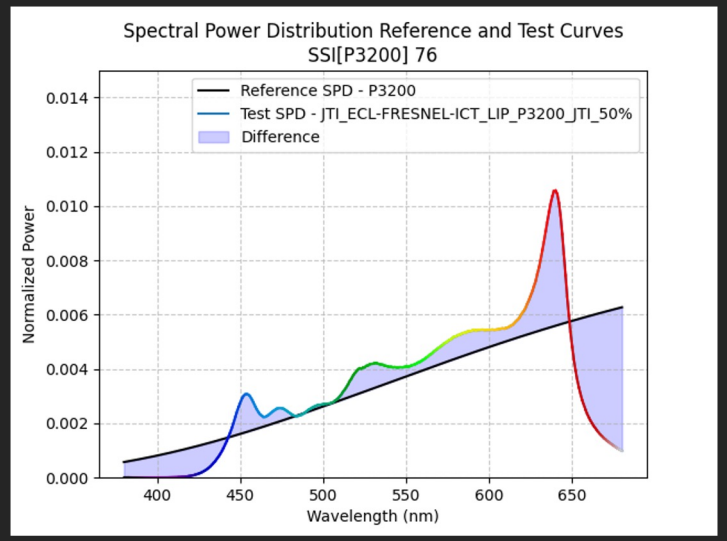
CCT 3218 Duv 0,001

CIE 1931 2° x 0.4237 y 0.4019

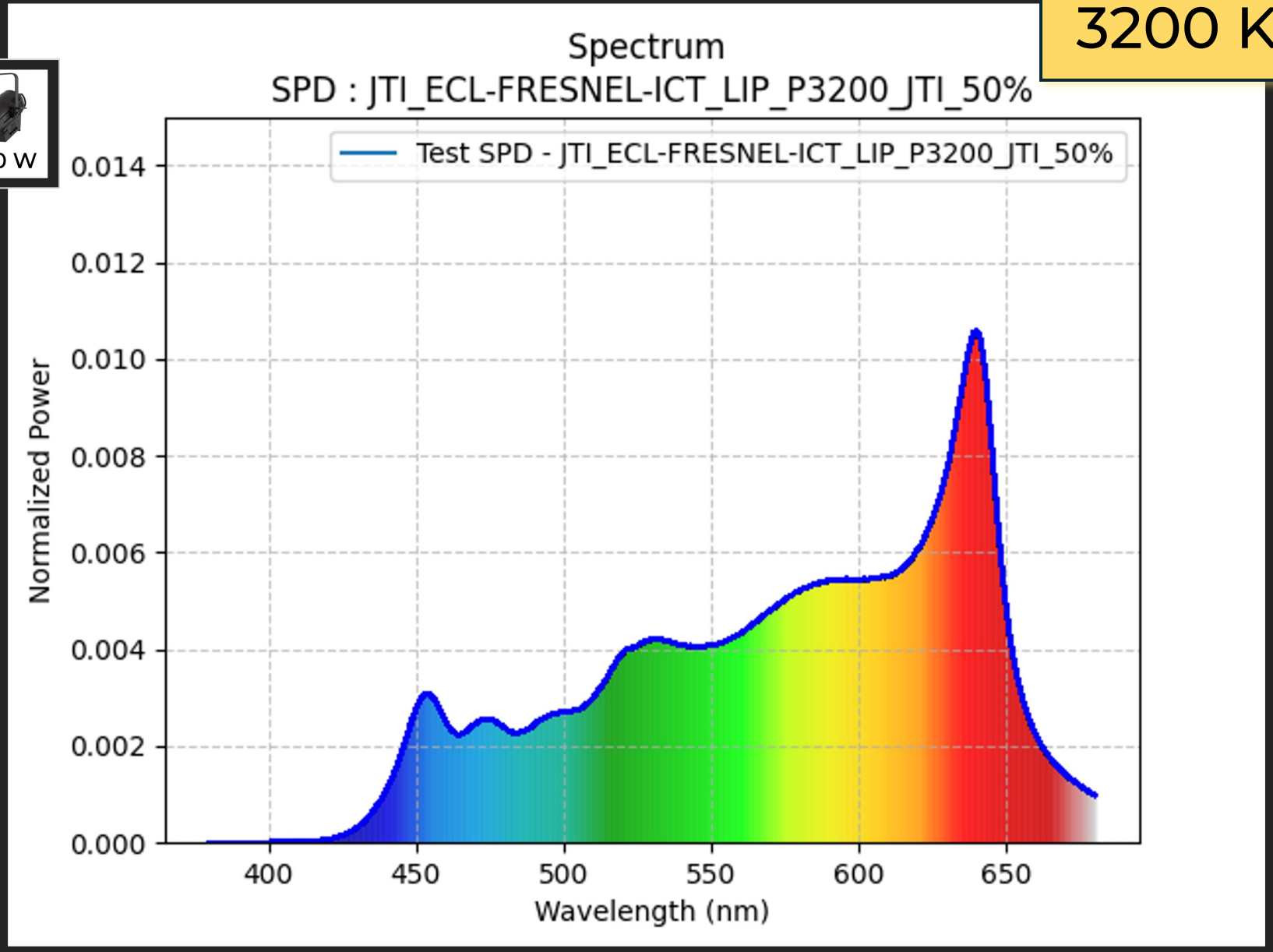
CRI Ra 97.15

IES TM-30-18 Rf 93 Rg 99

SSI[P3200] 76



3200 K



PROLIGHTS

ECLFRESNEL CT+MIP

Power: 25% - CCT set on JETI

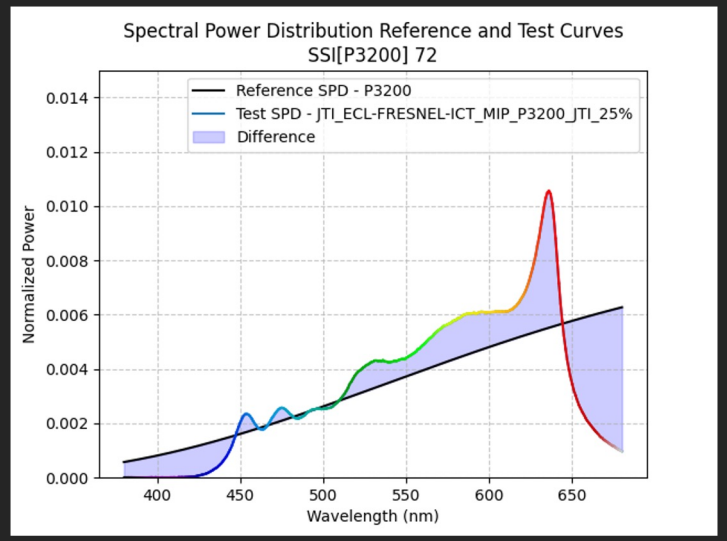
CCT 3143 Duv 0,007

CIE 1931 2° x 0.4368 y 0.4217

CRI Ra 89.90

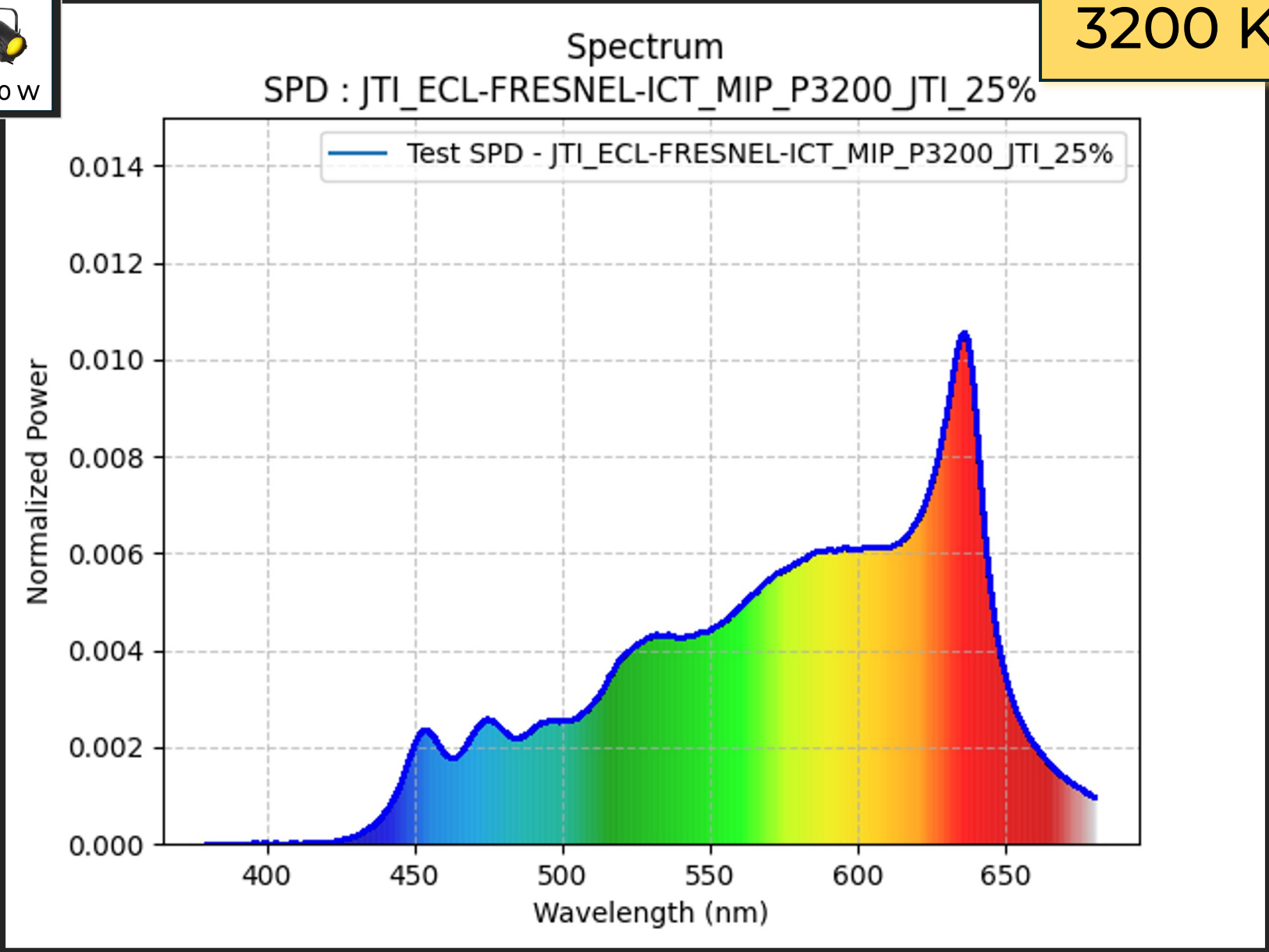
IES TM-30-18 Rf 87 Rg 92

SSI[P3200] 72



350 W

3200 K



PROLIGHTS

ECLFRESNEL LIP

Power: 25% - CCT set on JETI

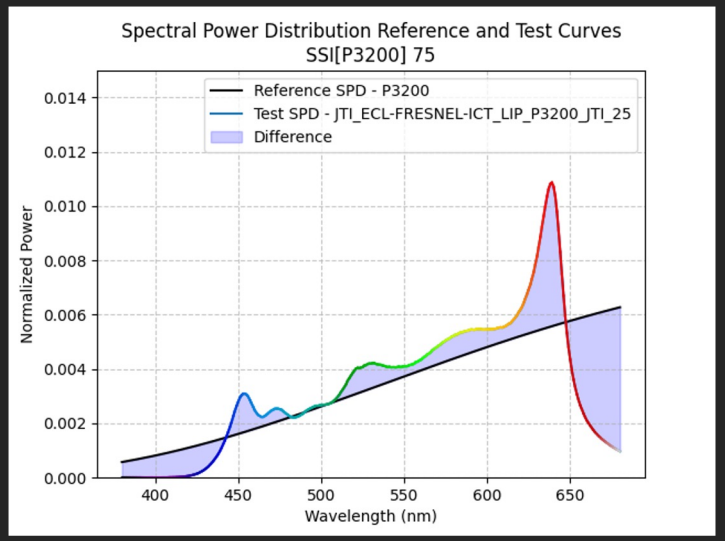
CCT 3197 Duv 0,001

CIE 1931 2° x 0.4249 y 0.4020

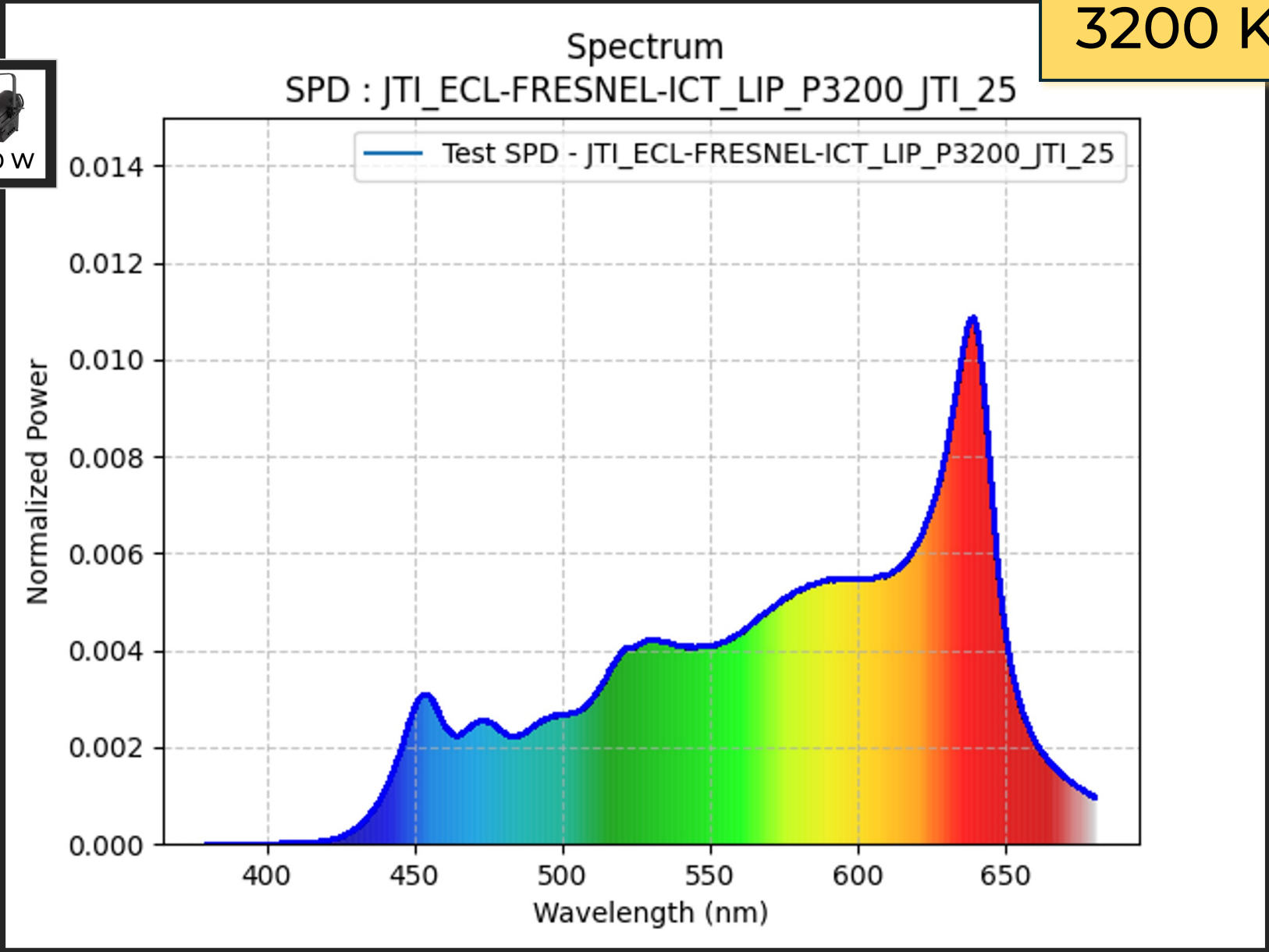
CRI Ra 97.00

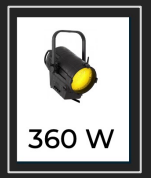
IES TM-30-18 Rf 93 Rg 99

SSI[P3200] 75



3200 K





ECLFRESNEL CT+MIP/+LIP

5600 K

JETI

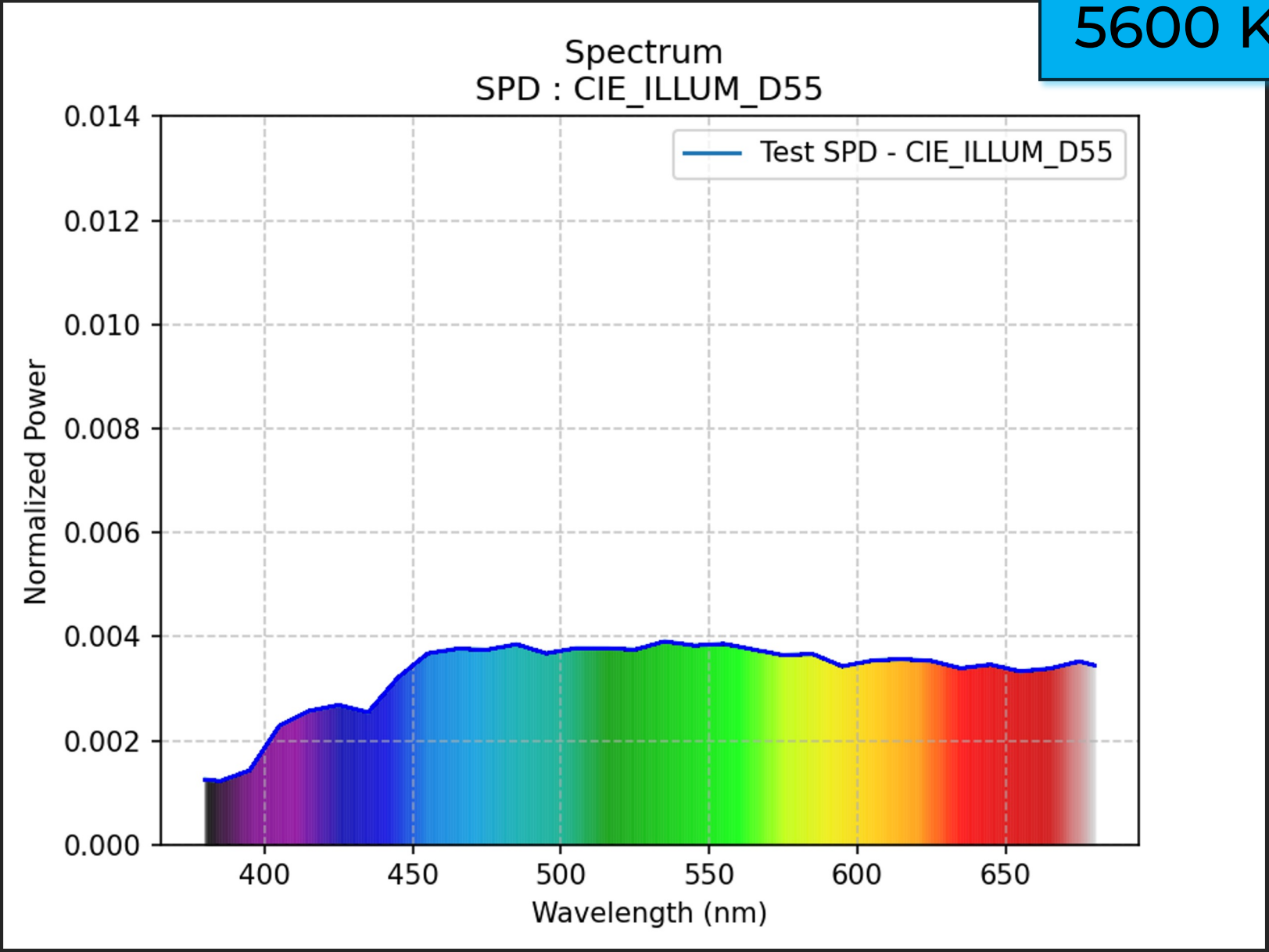
5600 K

SSI REFERENCE Daylight Locus

CIE illuminant D55* ≃ 5503,0598 K

Le SPD de référence utilisé dans cette partie est basé sur l'illuminant standardisé CIE D55. Sa température en Kelvin est de 5503 K environ. Le calcul SSI est donc effectué avec cette référence, bien que les sources à tester aient été réglées sur 5600 K.
Vous trouverez en annexe métrologie les mêmes calculs SSI basés sur un illuminant "Daylight locus" à 5600 K ainsi que sur les valeurs de cct mesurées. Les indices SSI sont similaires.

The reference SPD used in this section is based on the standardized CIE D55 illuminant. Its temperature in Kelvin is approximately 5503 K. Therefore, the SSI calculation is performed with this reference, even though the test sources were set to 5600 K. In the metrology appendix, you will find the same SSI calculations based on a "Daylight locus" illuminant at 5600 K as well as on the measured CCT values. The SSI indices are similar.



SOURCE HMI comparative

from https://ssi-calculator.oscars.org/

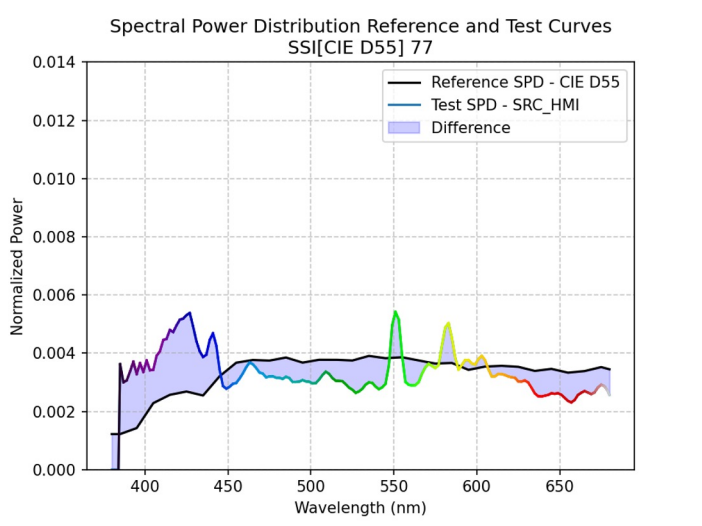
CCT 5605 Duv 0,000

CIE 1931 2° x 0.3301 y 0.3274

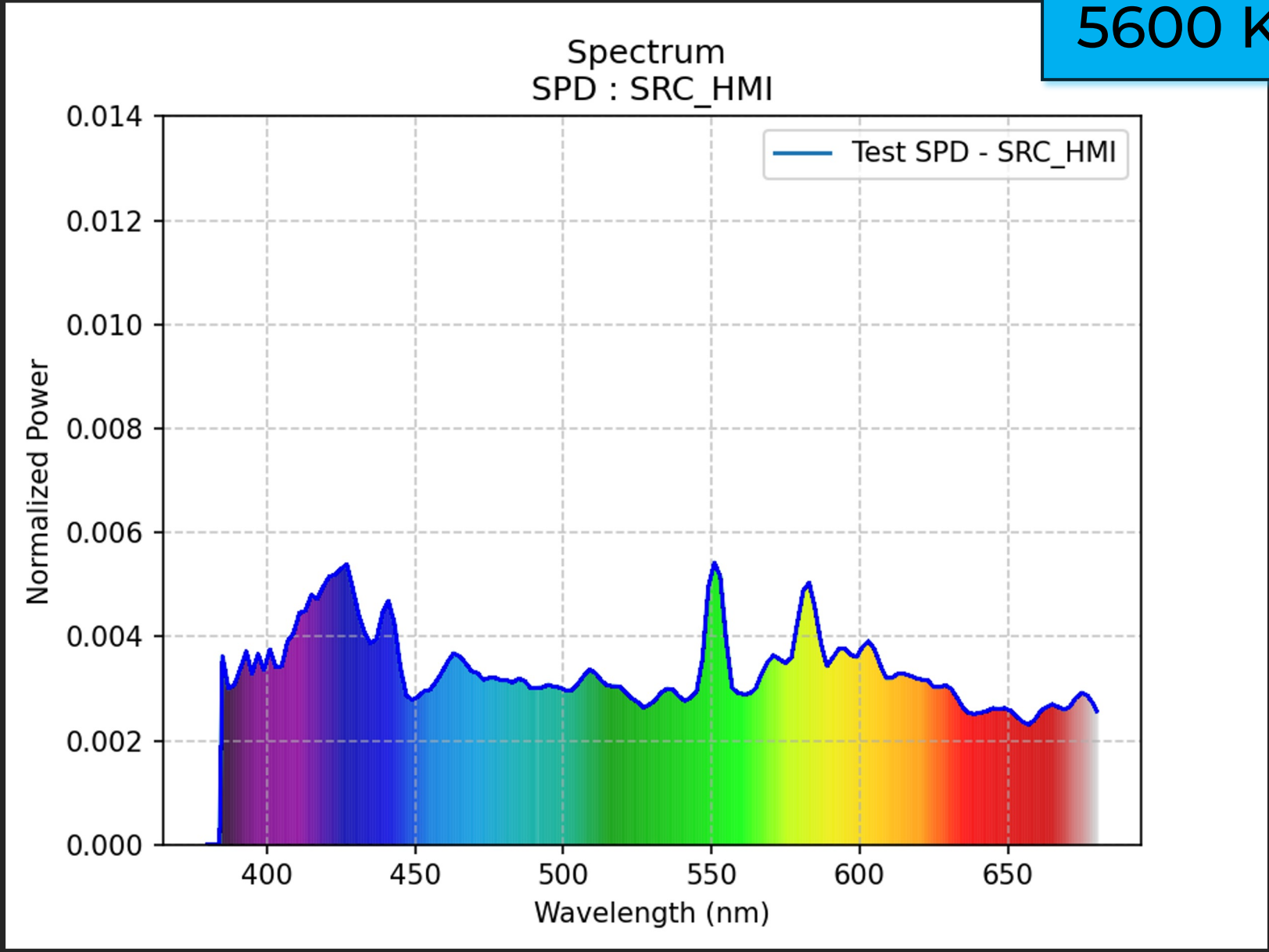
CRI Ra -

IES TM-30-18 Rf - Rg -

SSI[CIE D55] 77



5600 K



PROLIGHTS

ECLFRESNEL CT+MIP

Power: 100% - CCT set on LED

350 W

5600 K

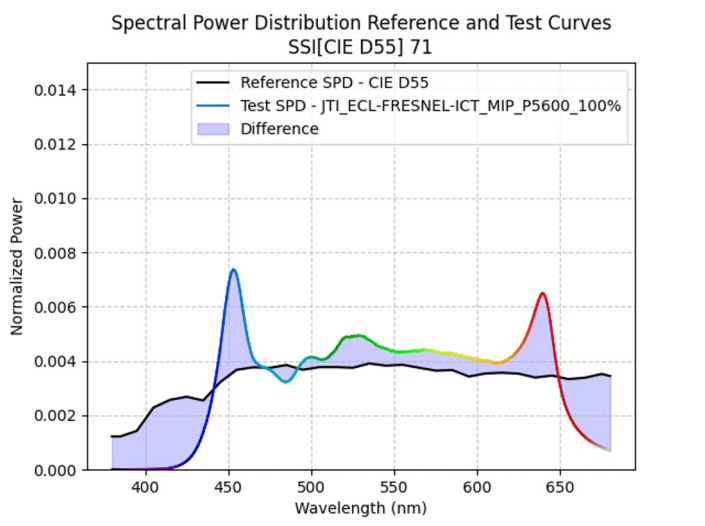
CCT 5399 Duv 0,004

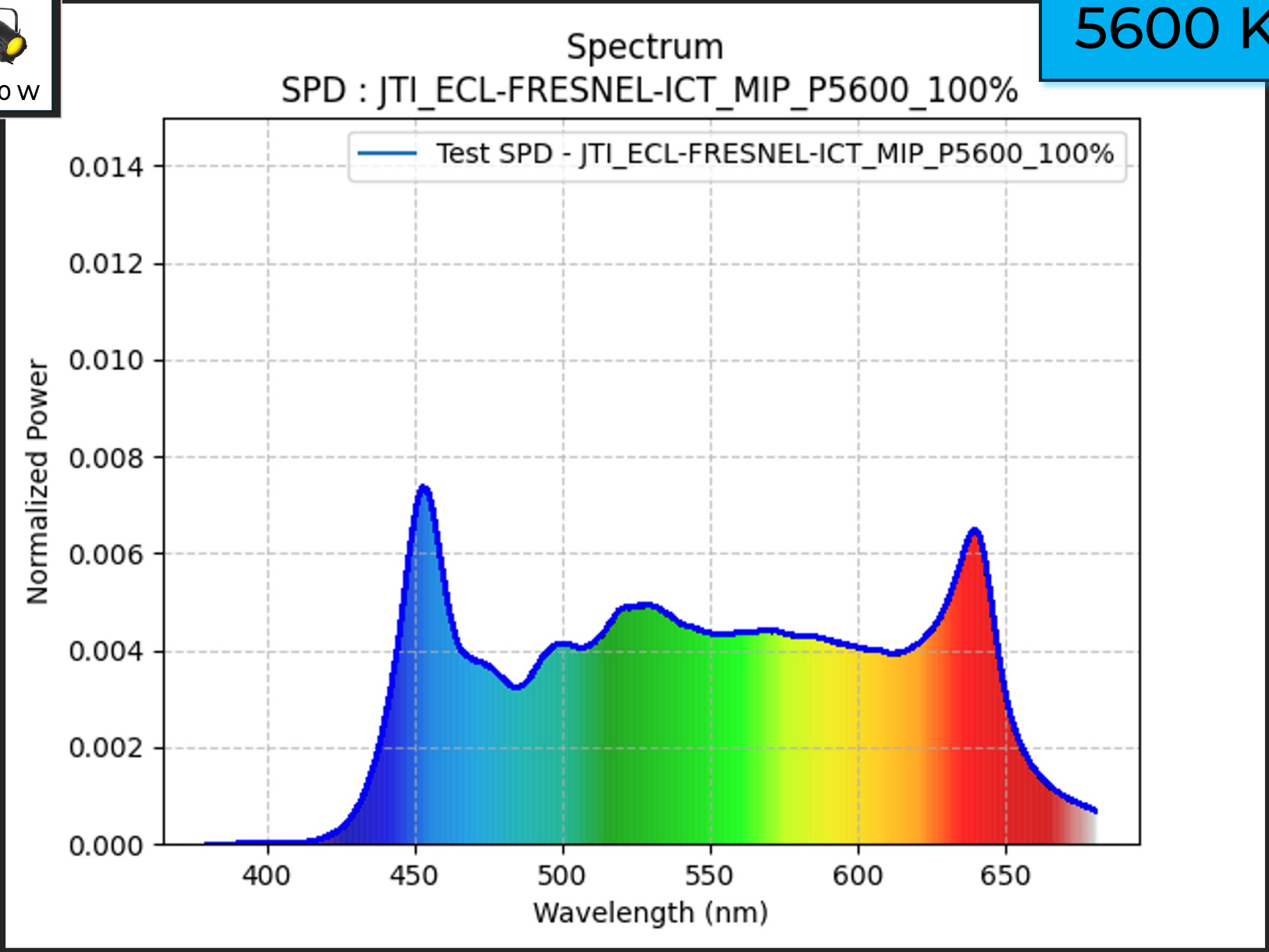
CIE 1931 2° x 0.3350 y 0.3517

CRI Ra 97.59

IES TM-30-18 Rf 95 Rg 100

SSI[CIE D55] 71





PROLIGHTS

ECLFRESNEL LIP

Power: 100% - CCT set on LED

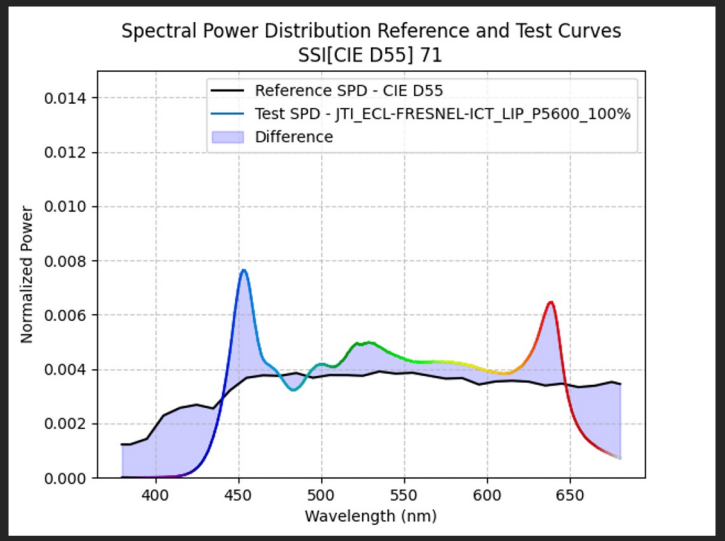
CCT 5623 Duv 0,004

CIE 1931 2° x 0.3297 y 0.3461

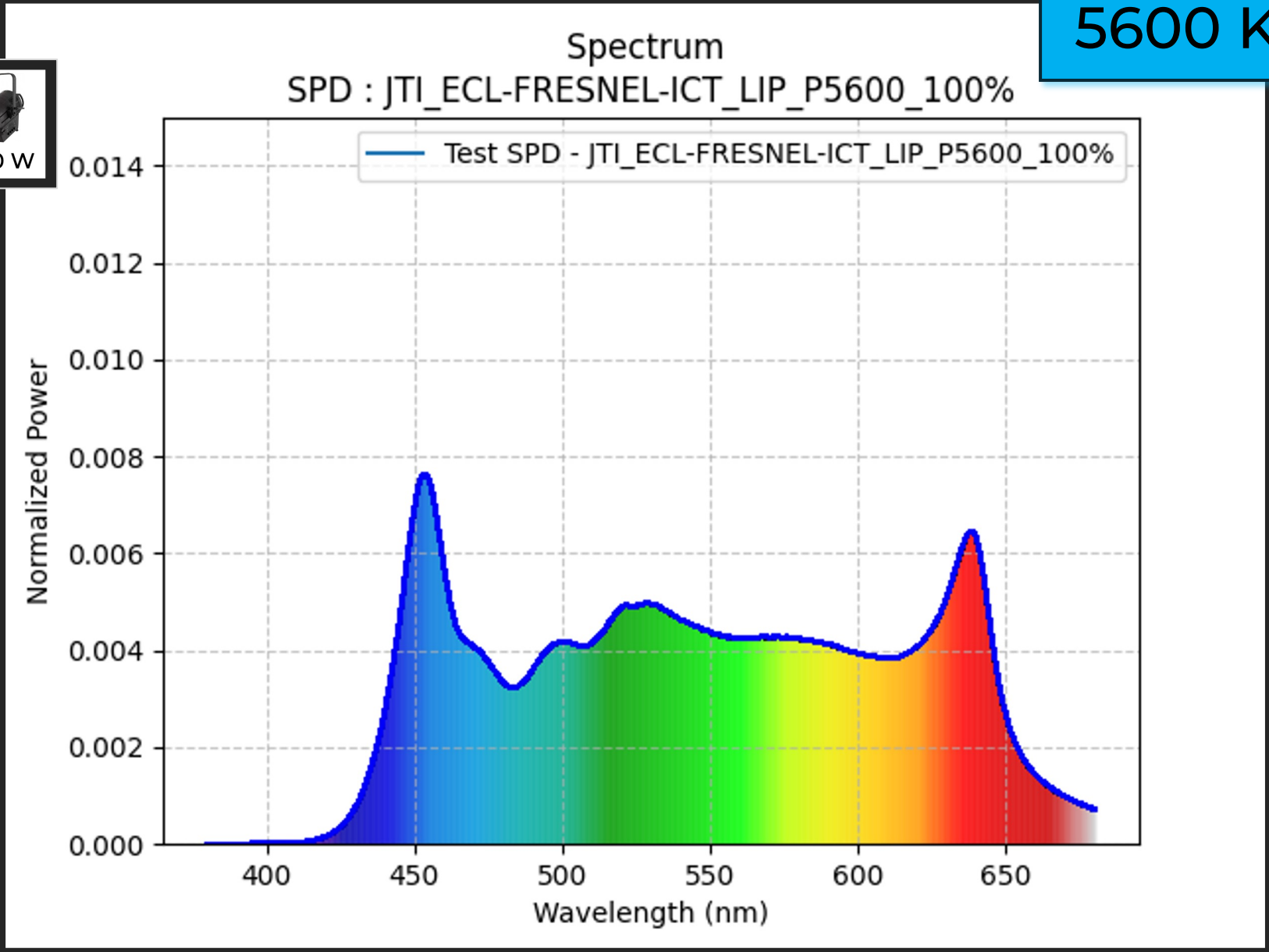
CRI Ra 97.90

IES TM-30-18 Rf 95 Rg 101

SSI[CIE D55] 71



5600 K



PROLIGHTS

ECLFRESNEL CT+MIP

Power: 100% - CCT set on JETI

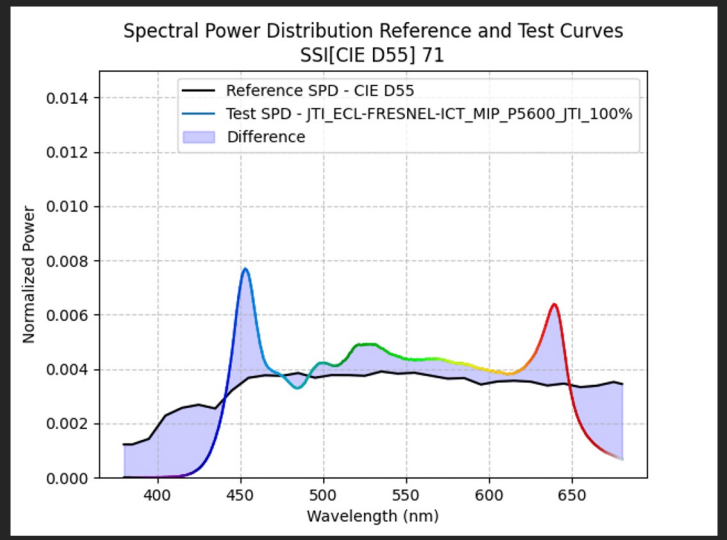
CCT 5612 Duv -0,004

CIE 1931 2° x 0.3299 y 0.3474

CRI Ra 97.72

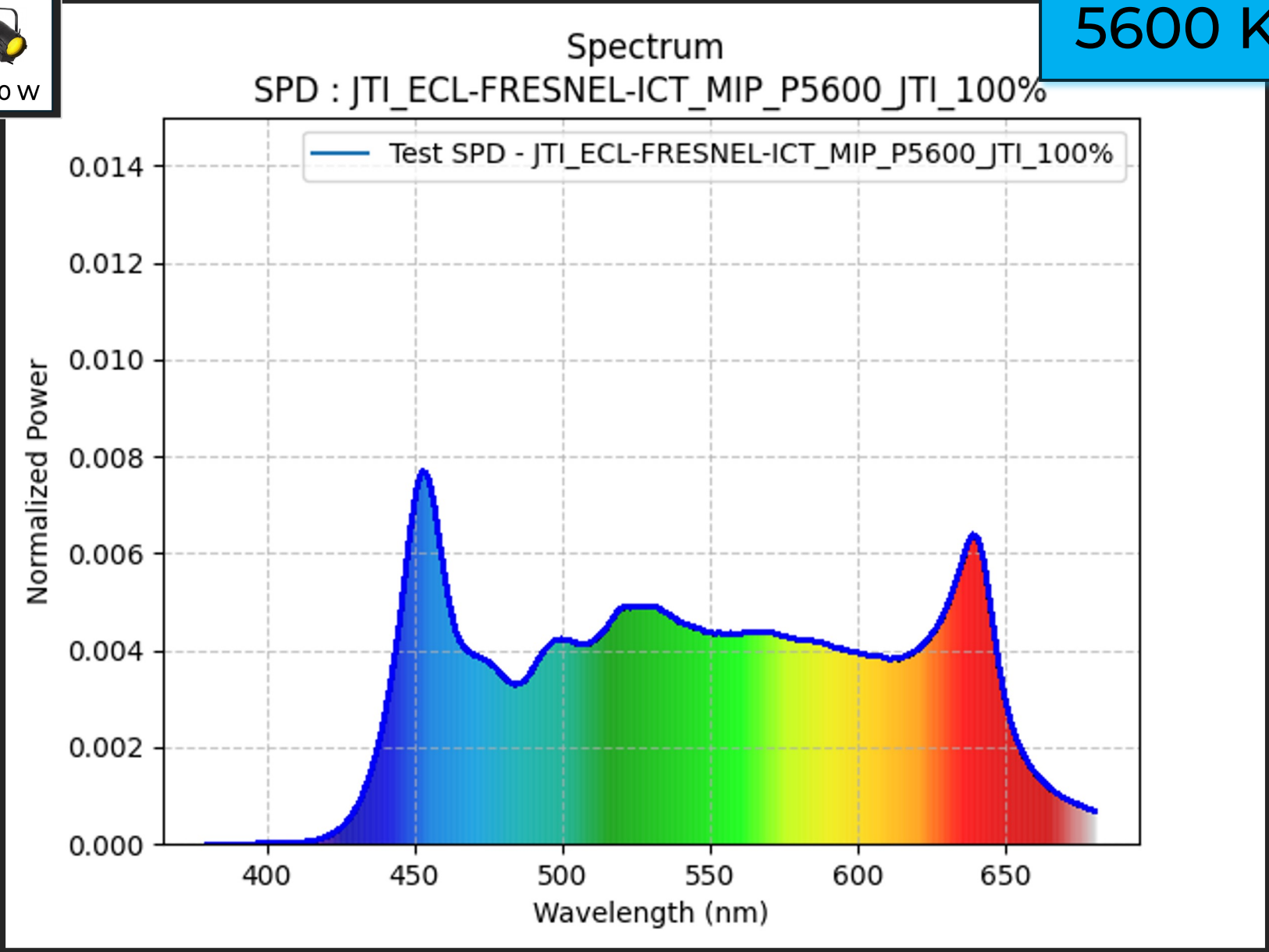
IES TM-30-18 Rf 94 Rg 100

SSI[CIE D55] 71



350 W

5600 K



PROLIGHTS

ECLFRESNEL LIP

Power: 100% - CCT set on JETI

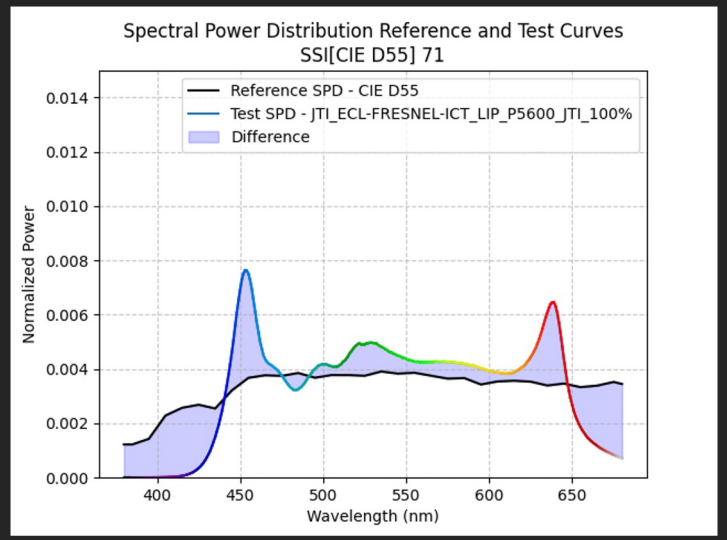
CCT 5623 Duv 0,004

CIE 1931 2° x 0.3297 y 0.3461

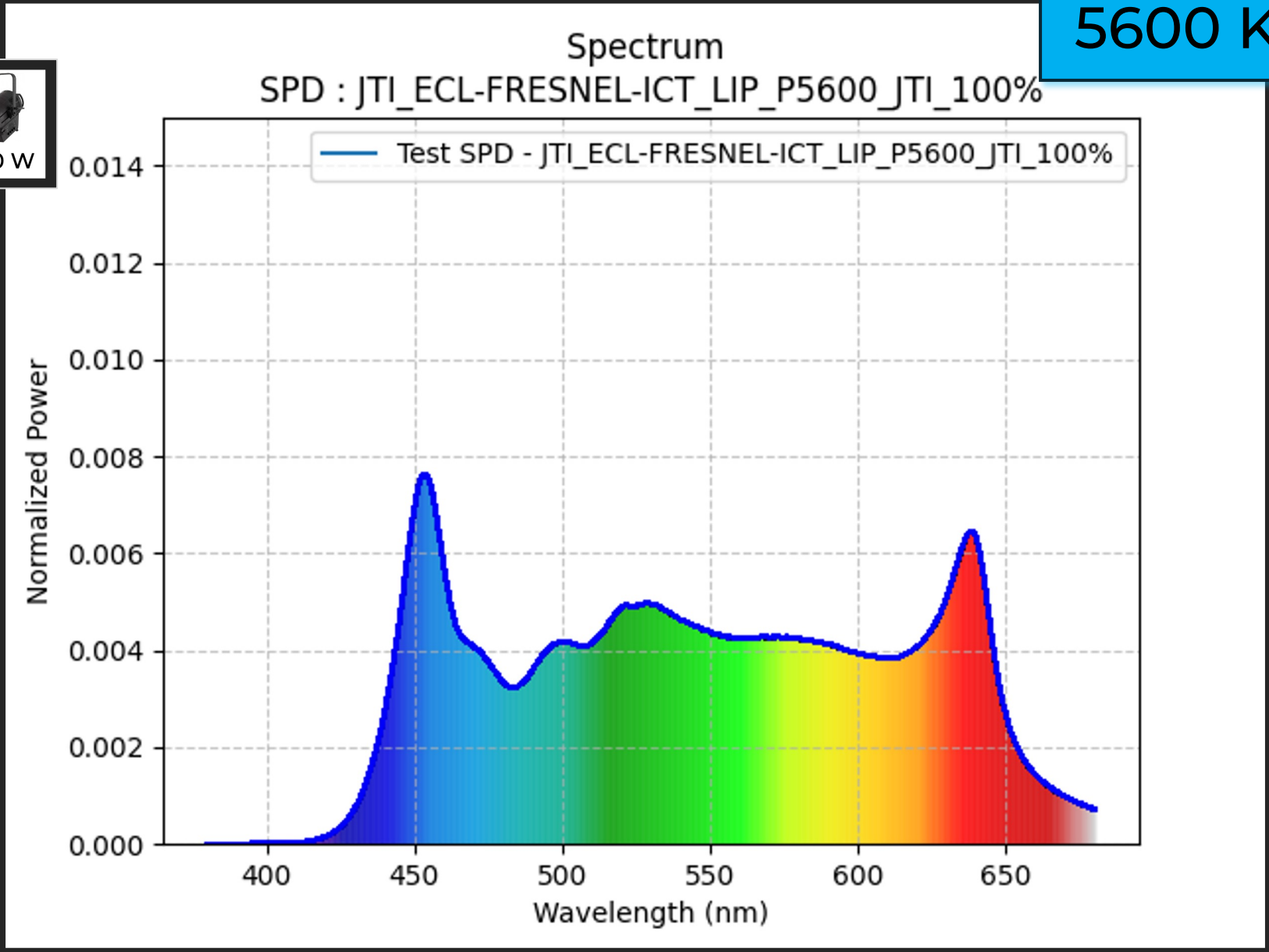
CRI Ra 97.90

IES TM-30-18 Rf 95 Rg 101

SSI[CIE D55] 71



5600 K



PROLIGHTS

ECLFRESNEL CT+MIP

Power: 50% - CCT set on JETI

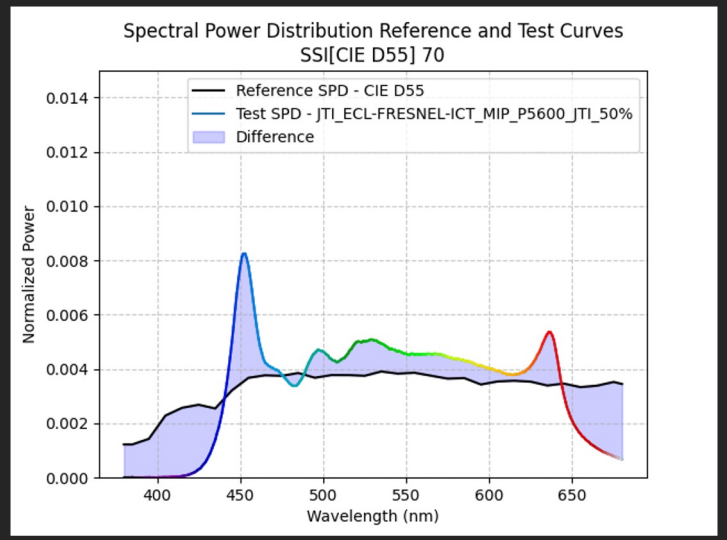
CCT 6013 Duv 0,009

CIE 1931 2° x 0.3207 y 0.3484

CRI Ra 97.63

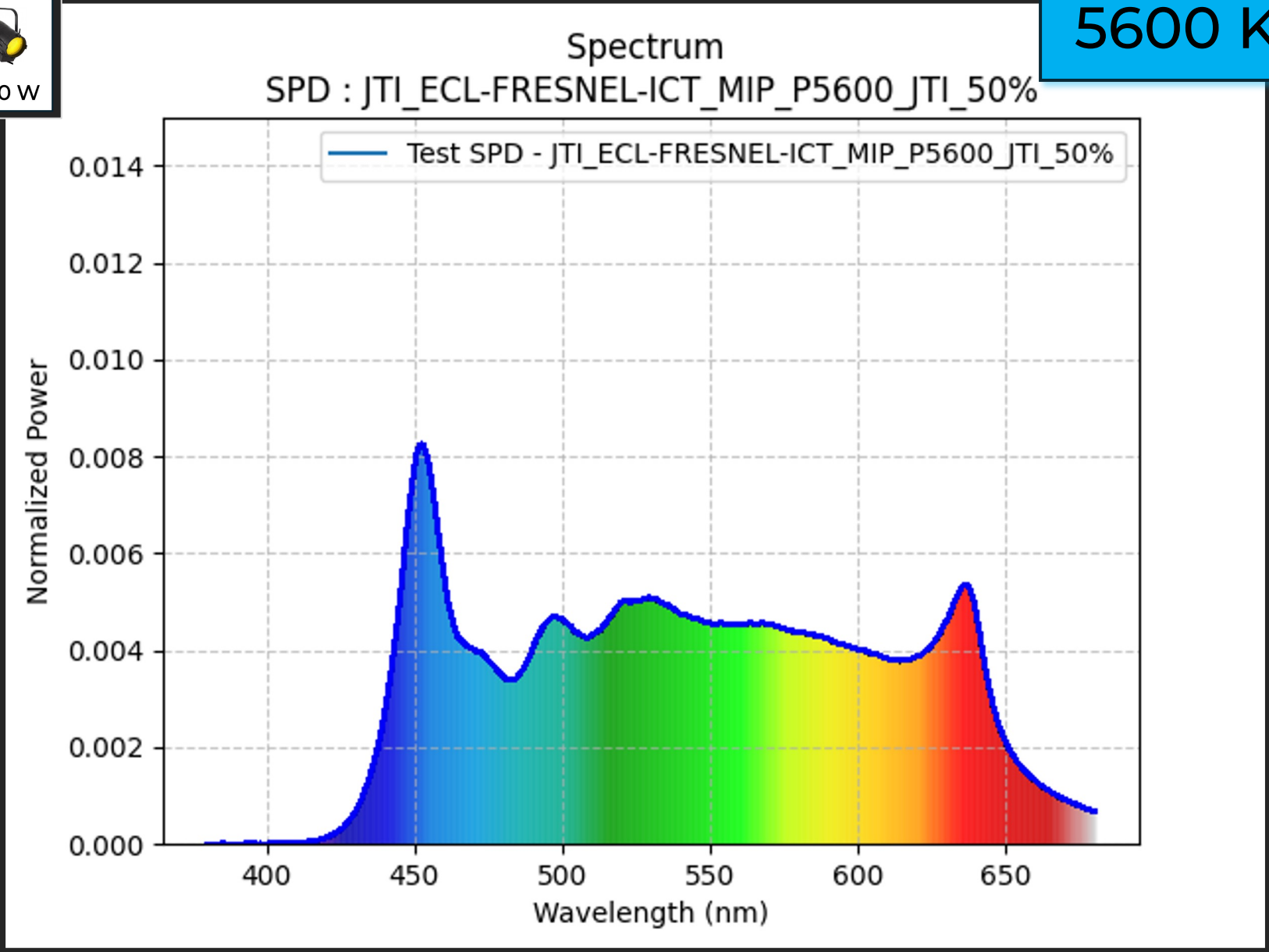
IES TM-30-18 Rf 92 Rg 97

SSI [CIE D55] 70



350 W

5600 K



PROLIGHTS

ECLFRESNEL LIP

Power: 50% - CCT set on JETI

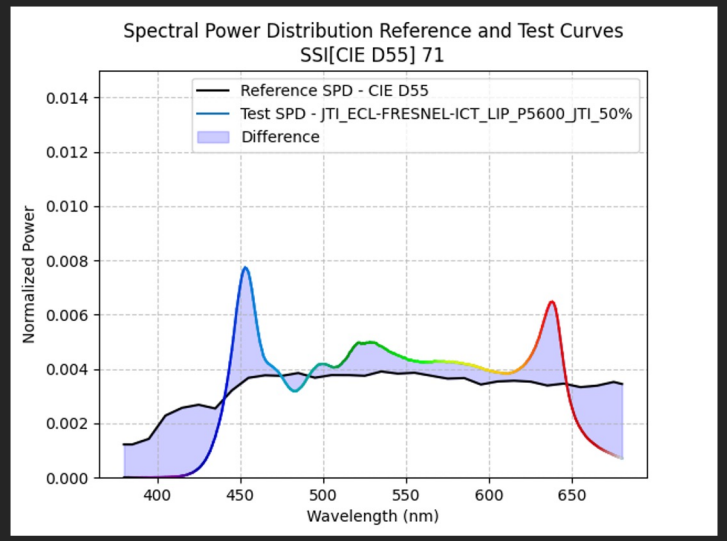
CCT 5637 Duv 0,004

CIE 1931 2° x 0.3293 y 0.3460

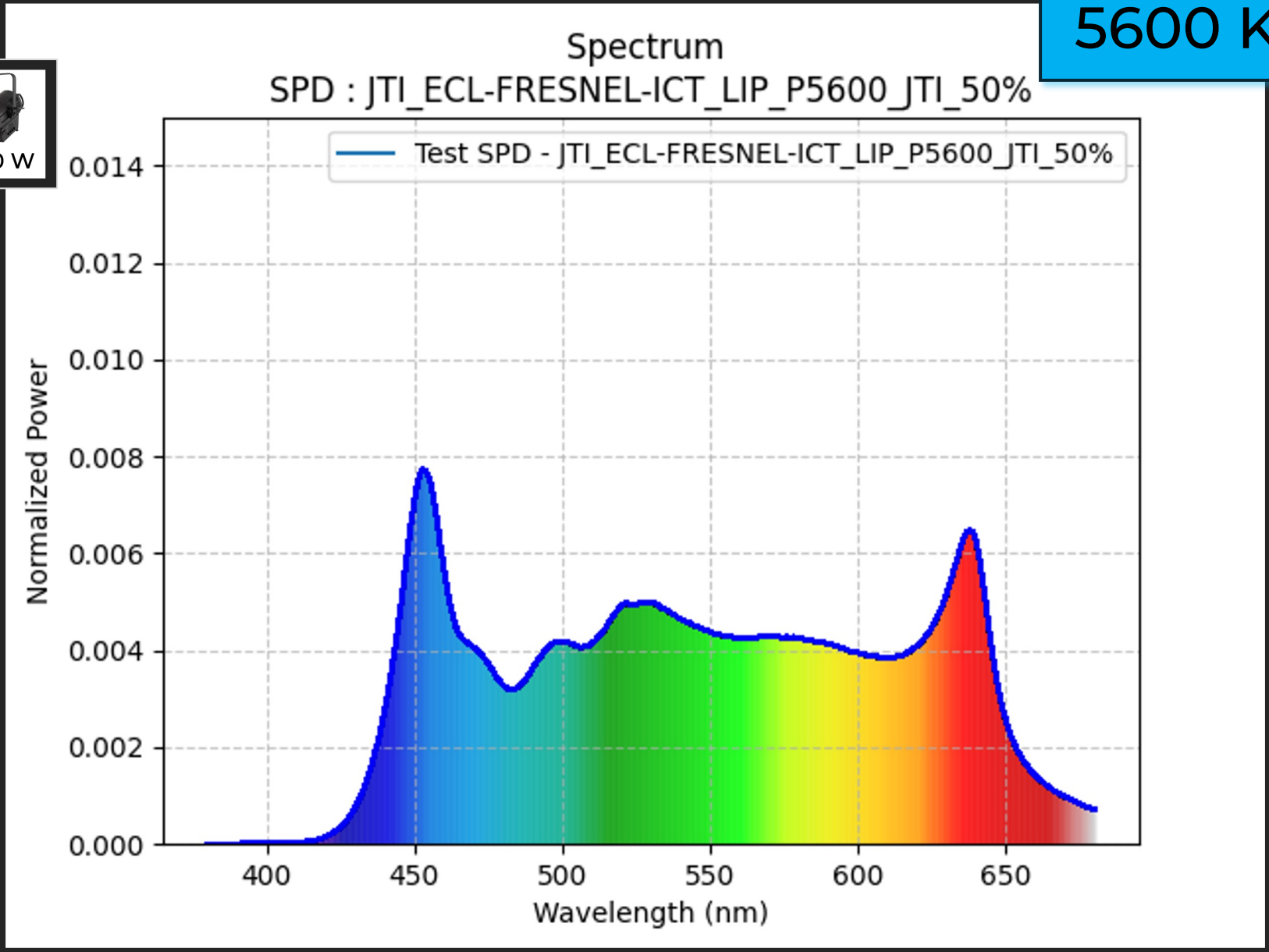
CRI Ra 97.71

IES TM-30-18 Rf 94 Rg 101

SSI[CIE D55] 71



5600 K



PROLIGHTS

ECLFRESNEL CT+MIP

Power: **25%** - CCT set on **JETI**

350 W

5600 K

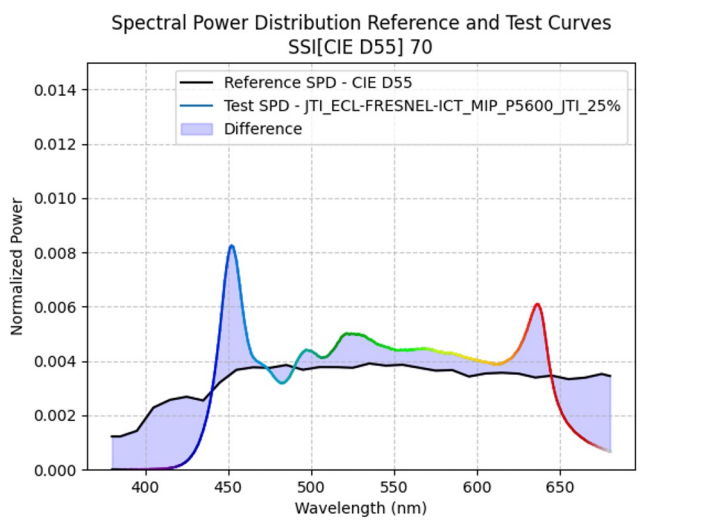
CCT 5755 Duv 0,005

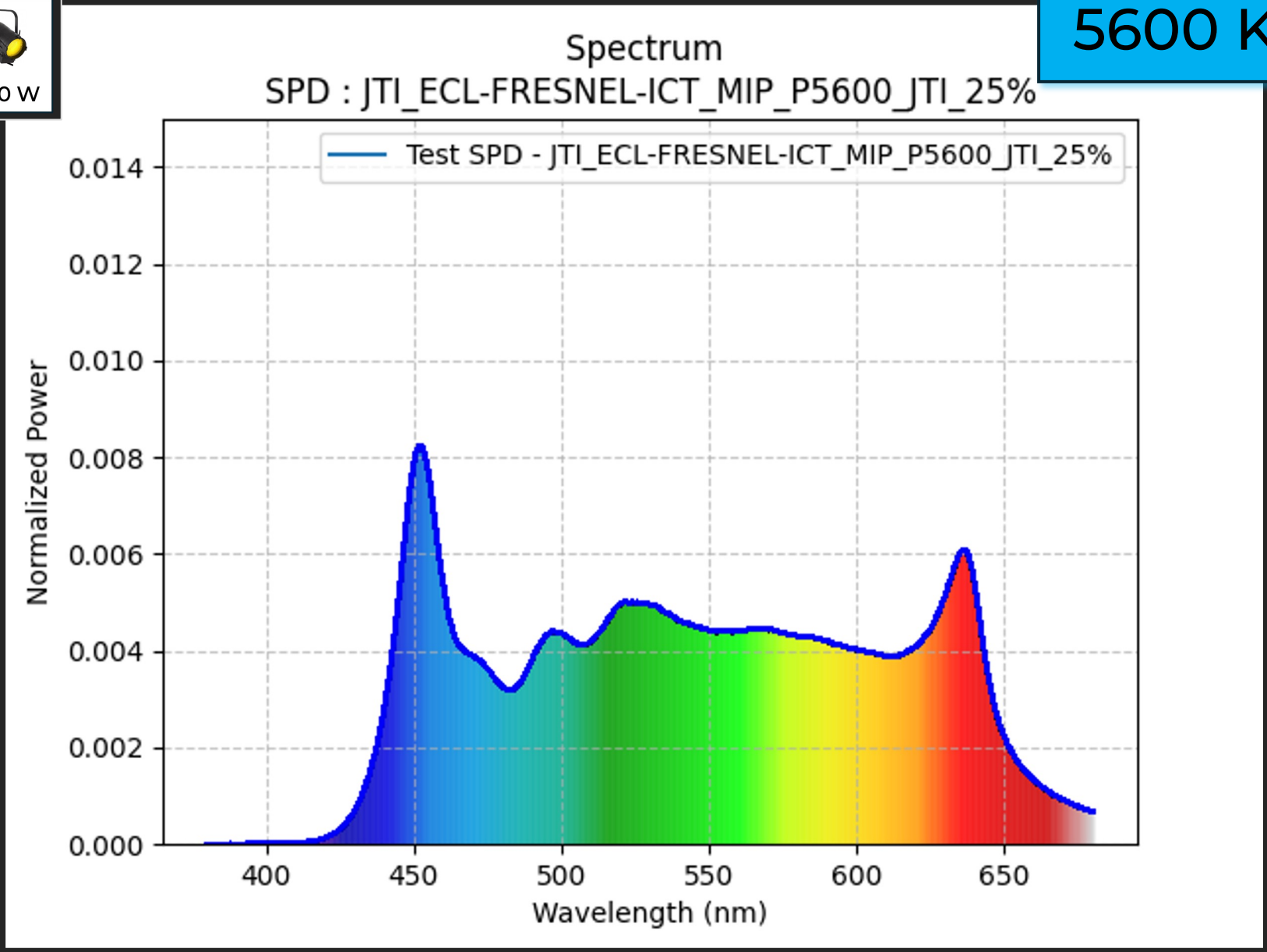
CIE 1931 2° x 0.3266 y 0.3463

CRI Ra 95.71

IES TM-30-18 Rf 94 Rg 99

SSI[CIE D55] **70**





PROLIGHTS

ECLFRESNEL LIP

Power: **25%** - CCT set on **JETI**

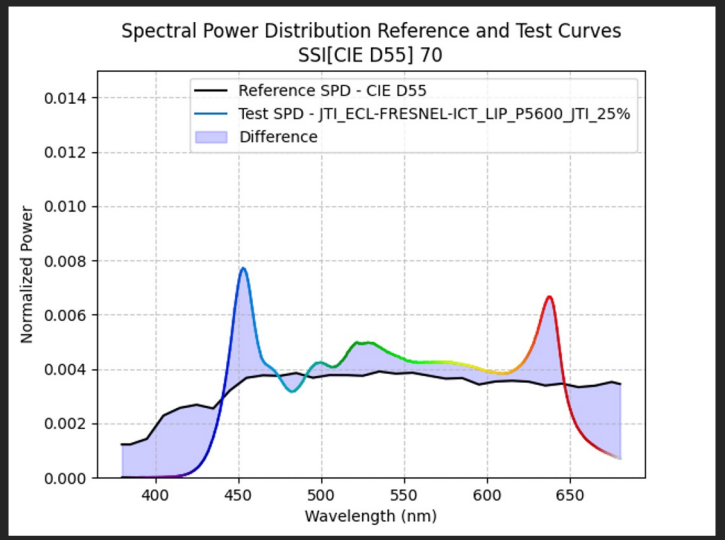
CCT 5597 Duv 0,004

CIE 1931 2° x 0.3303 y 0.3462

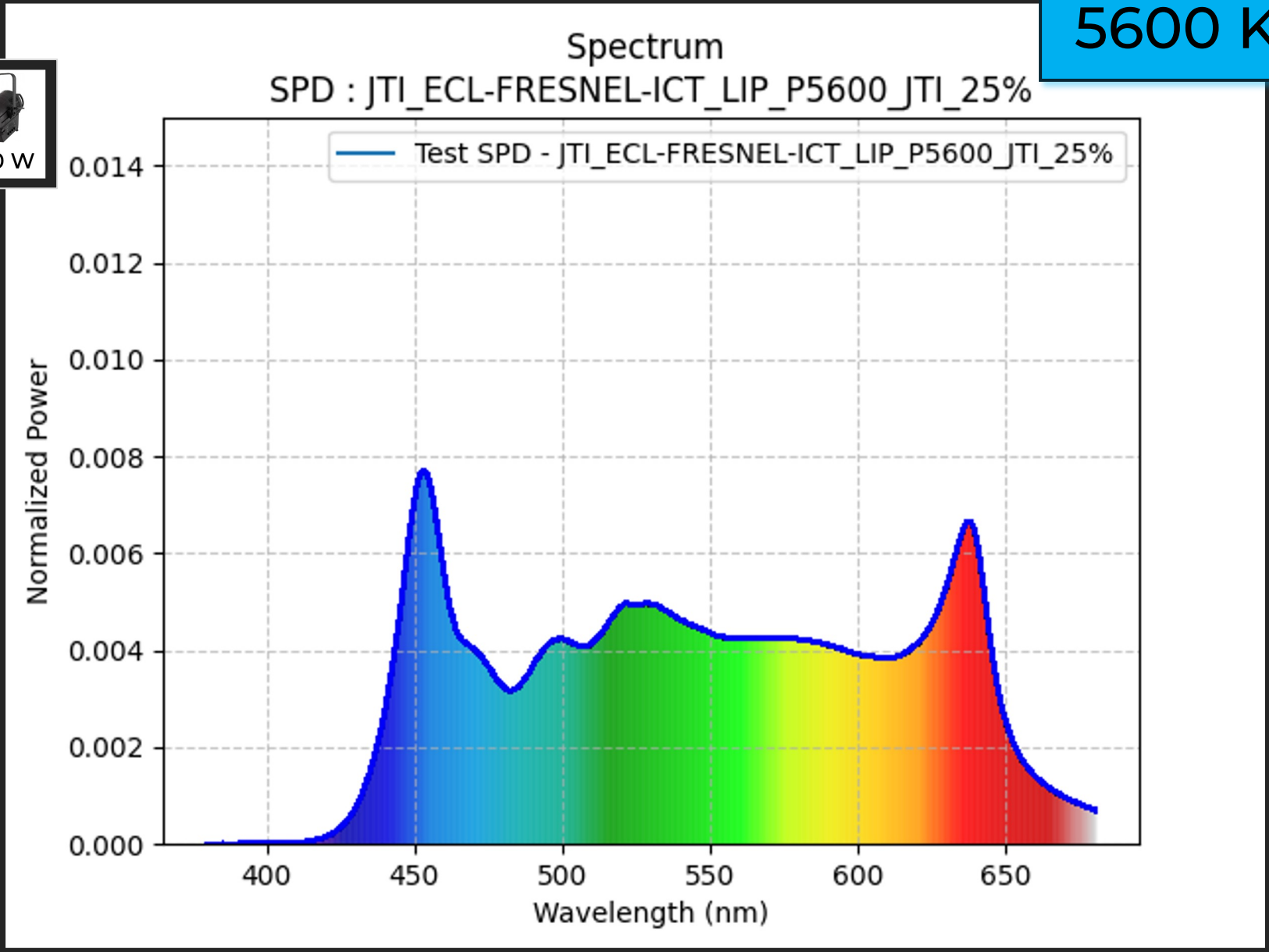
CRI Ra 98.09

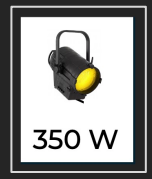
IES TM-30-18 Rf 95 Rg 101

SSI [CIE D55] **70**



5600 K





ECLFRESNEL CT+MIP

Images, Spectra

& SSI

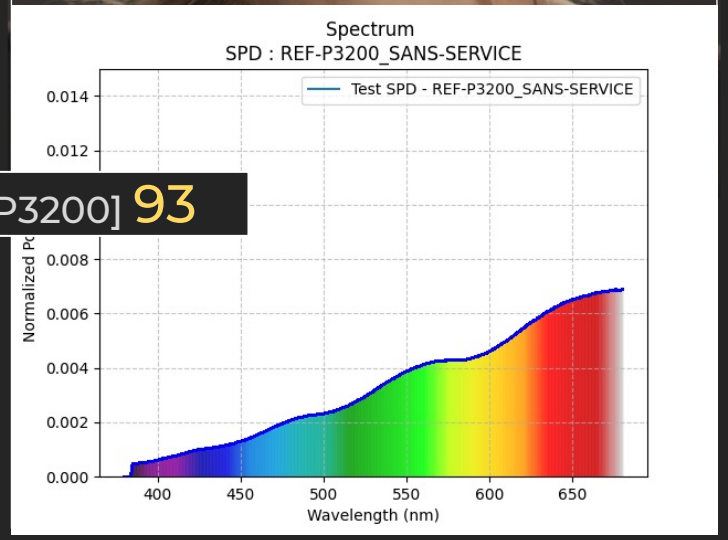
JETI

TUNGSTEN REF.

SONY VENICE 2
GRADED

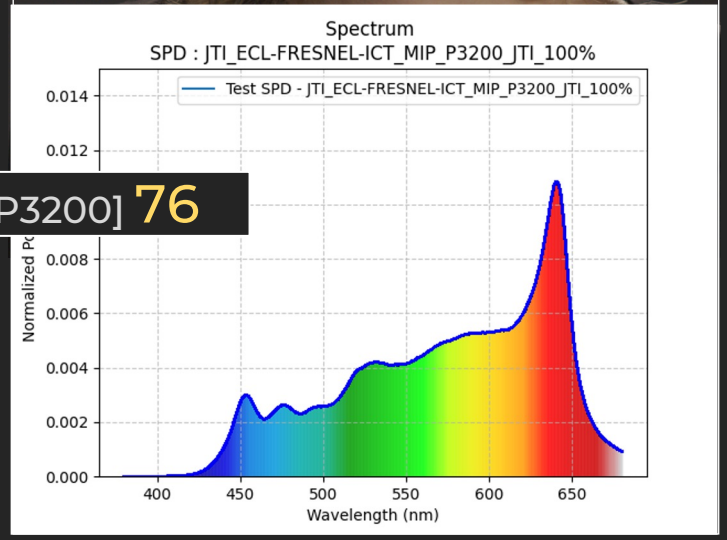
ECLFRESNEL CT+MIP

Images & données PROLIGHTS ECLFRESNEL CT+MIP Images & Data



SSI[P3200] 93

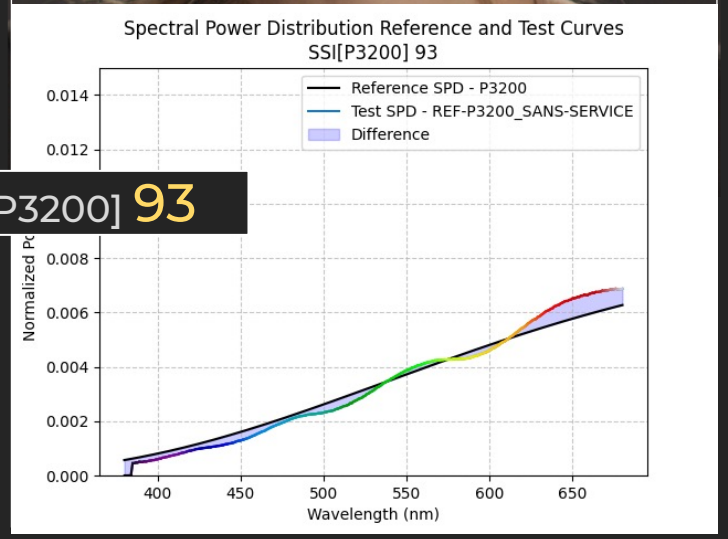
TUNGSTEN REF.



SSI[P3200] 76

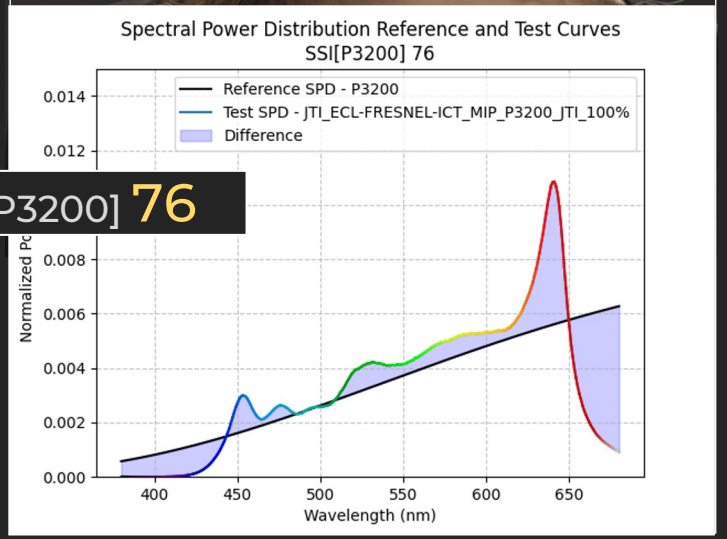
ECLFRESNEL
CT+MIP

Images & données PROLIGHTS ECLFRESNEL CT+MIP Images & Data



SSI[P3200] 93

TUNGSTEN REF.



SSI[P3200] 76

ECLFRESNEL
CT+MIP

ECLFRESNEL CT+MIP/+LIP

& TM-30-20

3200 K

5600 K

+

Comparison chart: SSI vs TM30-20 vs CRI

TM-30-20

Toutes les données de cette partie dédiée au TM-30-20 ont été calculé avec le JETI.

Vous trouverez :

- les graphiques et résultats (incluant R_f & R_g) du projecteur réglé à 100% de sa puissance à l'aide du JETI
- un tableau comparatif SSI / TM-30-20 / CRI.

Toutes les mesures sont données en 3200 K et en 5600K

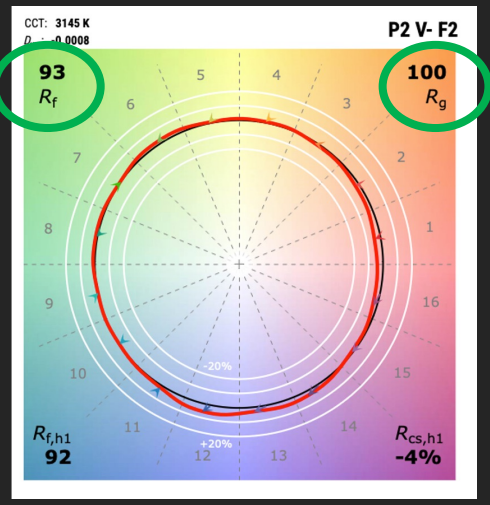
All the data in this section dedicated to the TM-30-20 has been calculated using JETI.

You will find :

- graphs and results (including R_f & R_g) for the lighting fixture set at 100% power using JETI
- a table comparing SSI / TM-30-20 / CRI.

All measurements are provided in 3200K and 5600K

R_f



R_g

JETI

TM-30-20

Dans le fichier JTL 20 consacré aux données TM-30-20 vous trouverez :

- les graphiques du projecteur réglé à 100%, à 50 % et à 25% de sa puissance à l'aide des indications du JETI
- les graphiques du projecteur réglé à 100% de sa puissance grâce aux indications du projecteur.

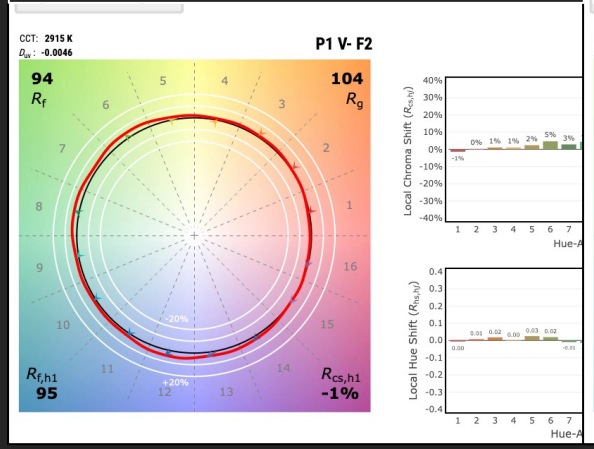
Toutes les mesures sont données en 3200 K et en 5600K

In the JTL 20 file dedicated to TM-30-20 data, you will find:

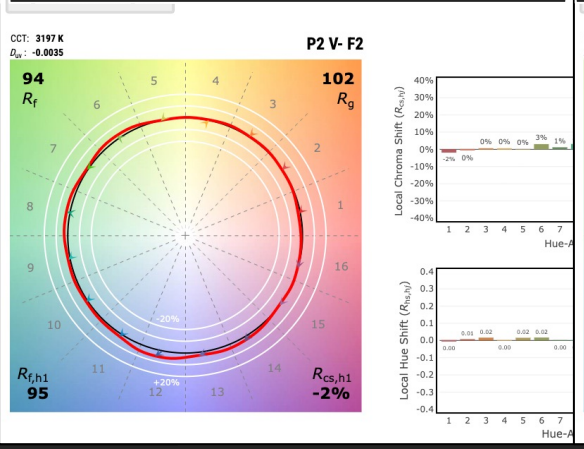
- graphs of the lighting fixture set at 100%, 50% and 25% power using JETI
- graphs of the lighting fixture set to 100% of its power thanks to the indications of the lighting fixture.

All measurements are provided in 3200K and 5600K

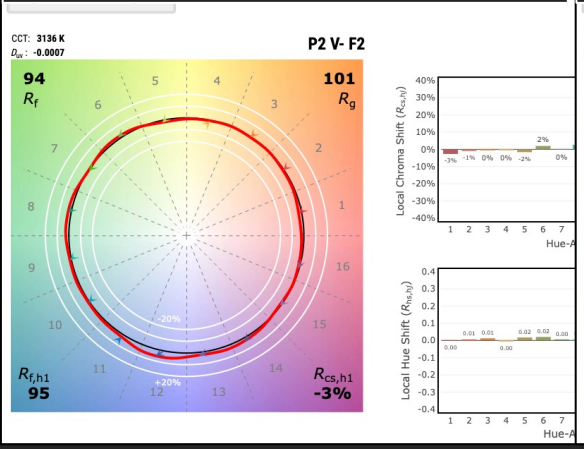
100 % indicated by fixture



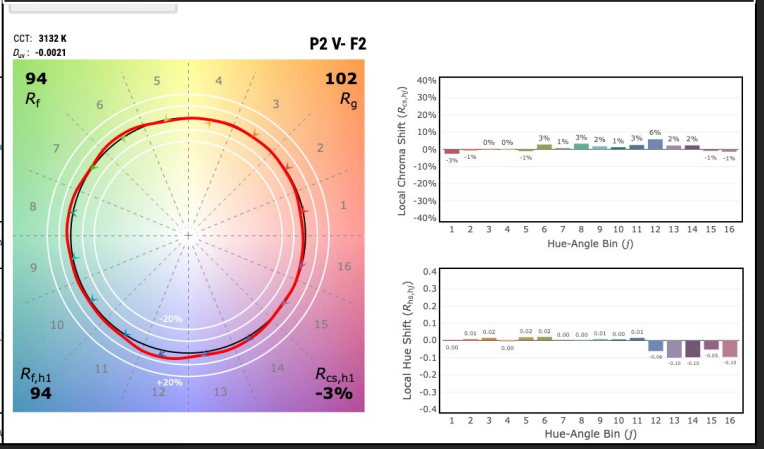
100 % indicated by JETI



50 % indicated by JETI



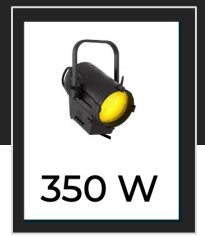
25 % indicated by JETI



3200 K

ECLFRESNEL CT TM-30-20

+MIP



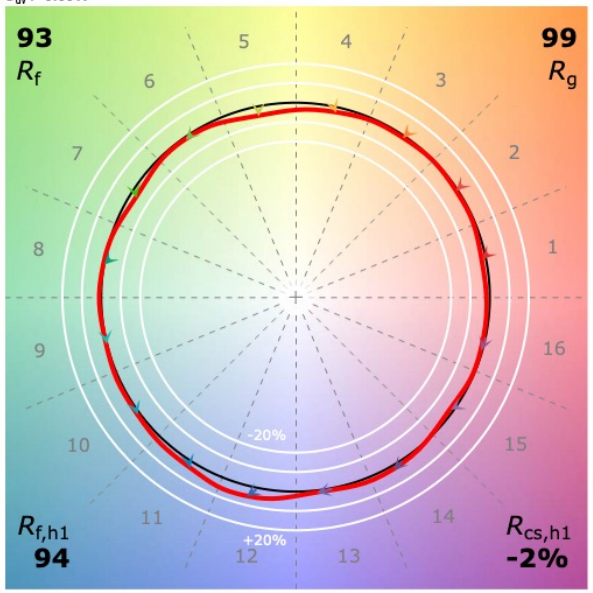
ANSI/IES TM-30-20 Color Rendition Report

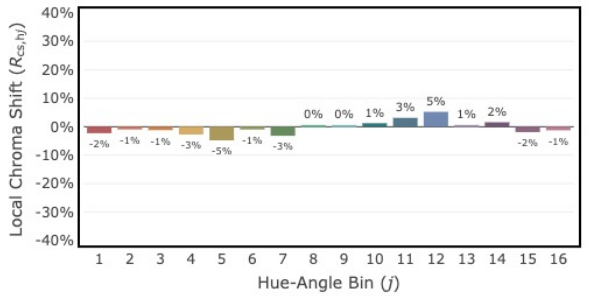
Unique Identifier:

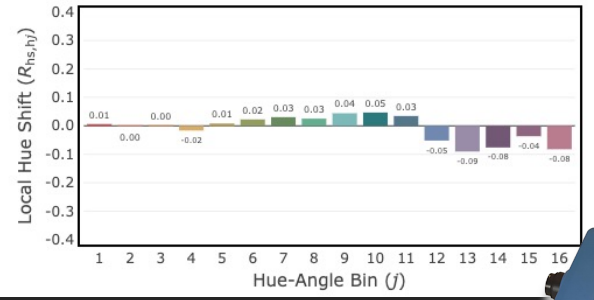
JTI_ECL-FRESNEL-ICT_MIP_P320

CCT: **3211 K**
D_{uv}: **0.0017**

P2 V- F2







+LIP

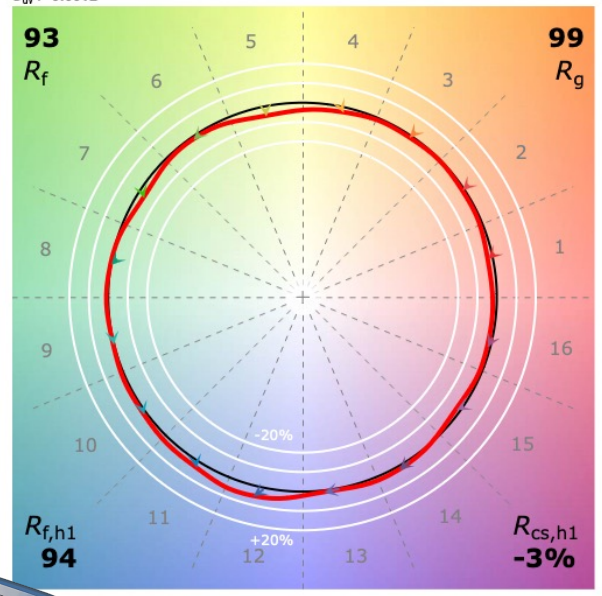
ANSI/IES TM-30-20 Color Rendition Report

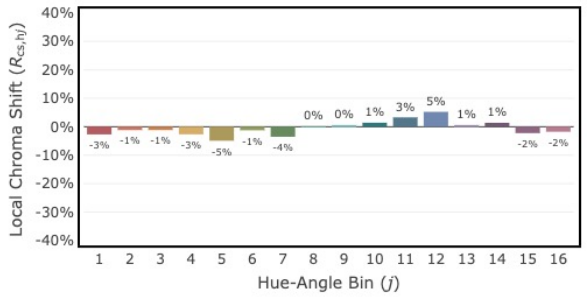
Unique Identifier:

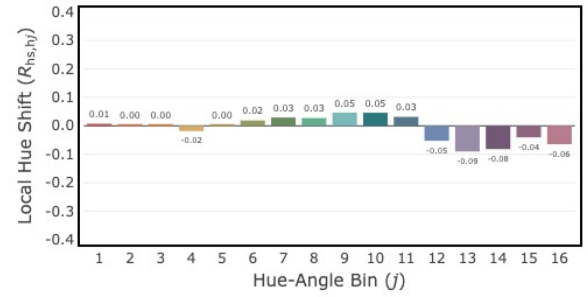
JTI_ECL-FRESNEL-ICT_LIP_P320C

CCT: **3245 K**
D_{uv}: **0.0012**

P2 V- F2







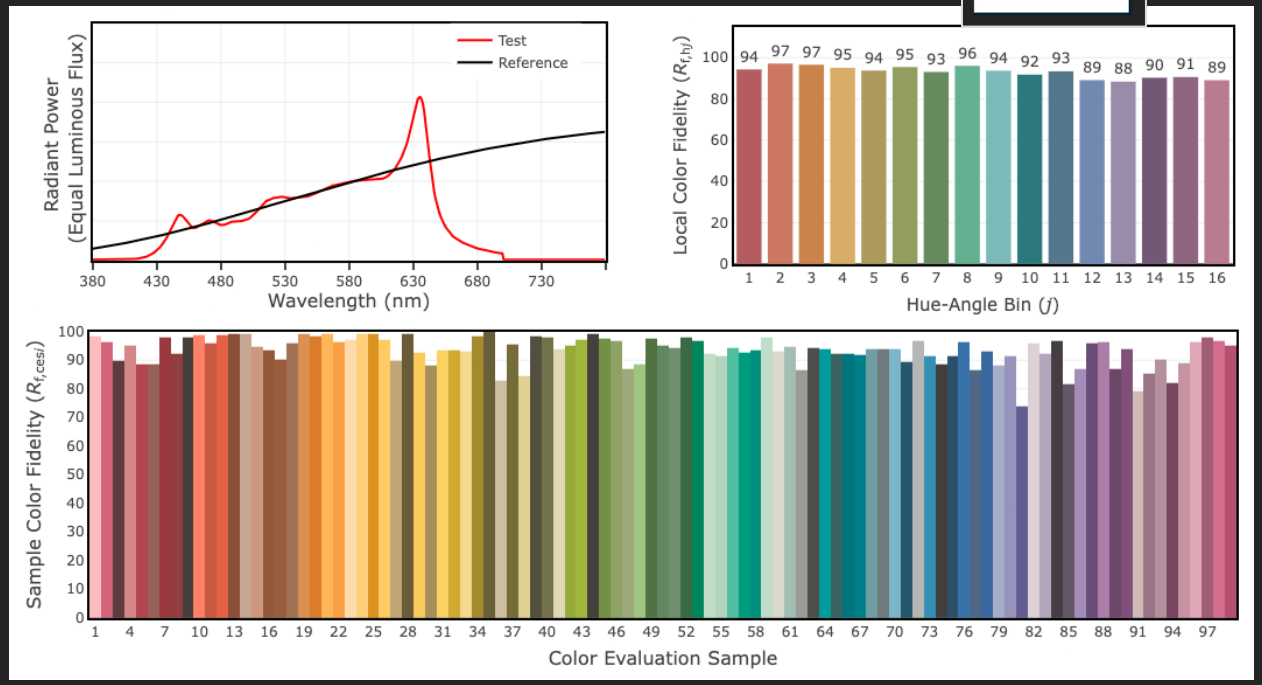
JETI

3200 K

ECLFRESNEL CT TM-30-20

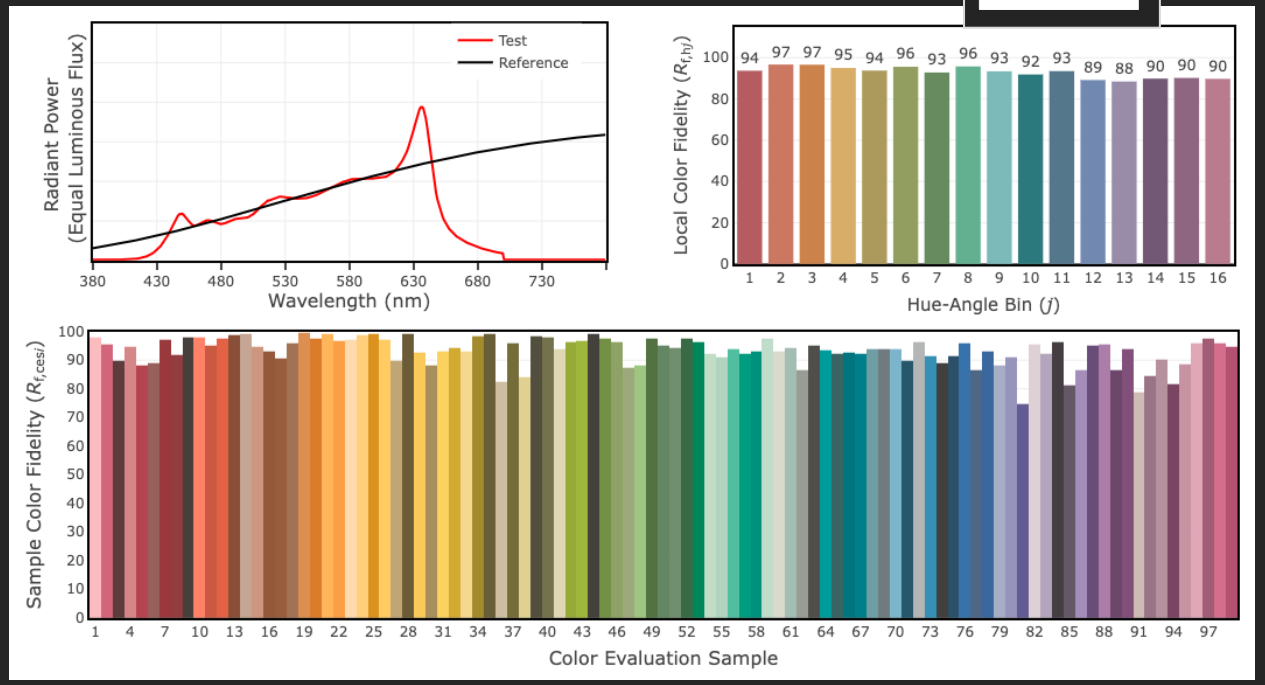
+MIP

350 W



+LIP

600 W



JETI

3200 K

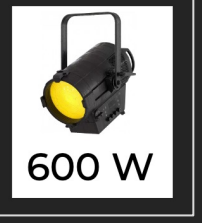
ECLFRESNEL CT

Comparison chart: SSI vs TM30-20 vs CRI

+MIP

JETI 1511 HiRes					
SPD TEST	SSI	TM30 Rf	TM30 Rg	CRI Ra	CRI Re
TUNGSTEN VISUAL REF.	93	98	100	97,51	97,05
JTI_ECL-FRESNEL-ICT_MIP_P3200_**LED_100%**	76	94	99	98,05	96,73
JTI_ECL-FRESNEL-ICT_MIP_P3200_**JTI_100%**	76	93	99	97,83	96,34
JTI_ECL-FRESNEL-ICT_MIP_P3200_**JTI_50%**	72	90	95	94,29	91,56
JTI_ECL-FRESNEL-ICT_MIP_P3200_**JTI_25%**	72	87	92	89,9	85,77

+LIP



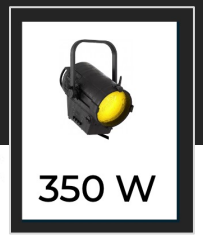
JETI 1511 HiRes					
SPD TEST	SSI	TM30 Rf	TM30 Rg	CRI Ra	CRI Re
TUNGSTEN VISUAL REF.	93	98	100	97,51	97,05
JTI_ECL-FRESNEL-ICT_LIP_P3200_**LED_100%**	75	93	99	96,72	95,03
JTI_ECL-FRESNEL-ICT_LIP_P3200_**JTI_100%**	77	93	98	97,46	96,13
JTI_ECL-FRESNEL-ICT_LIP_P3200_**JTI_50%**	76	93	99	97,15	95,6
JTI_ECL-FRESNEL-ICT_LIP_P3200_**JTI_25%**	75	93	99	97	95,36

JETI

Images & données PROLIGHTS ECLFRESNEL CT Images & Data

ECLFRESNEL CT TM-30-20 5600 K

+MIP



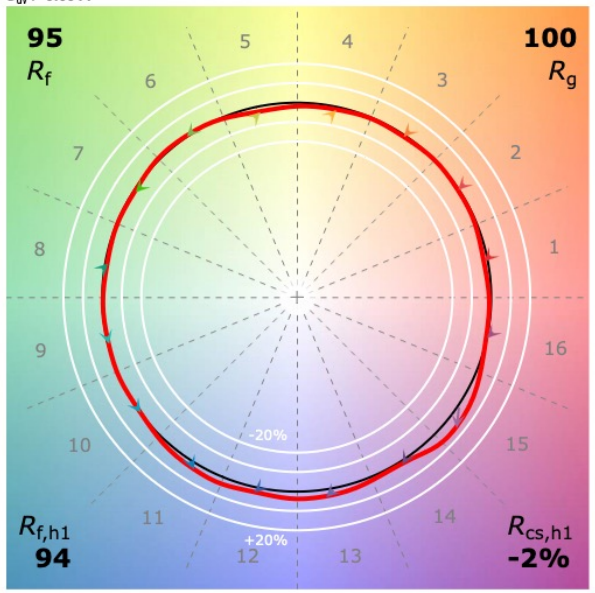
ANSI/IES TM-30-20 Color Rendition Report

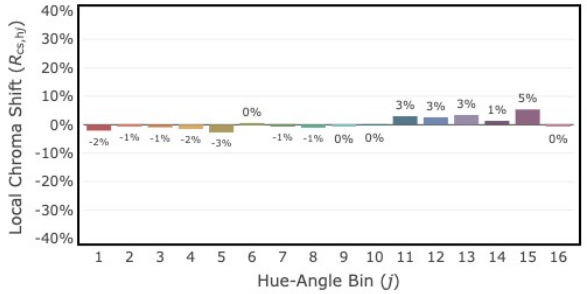
Unique Identifier:

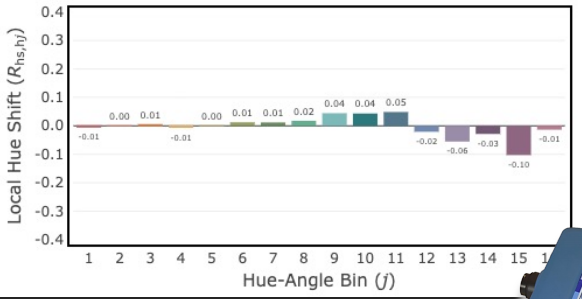
JTI_ECL-FRESNEL-ICT_MIP_P560

CCT: **5610 K**
D_{uv}: **0.0044**

P2 V- F1







+LIP

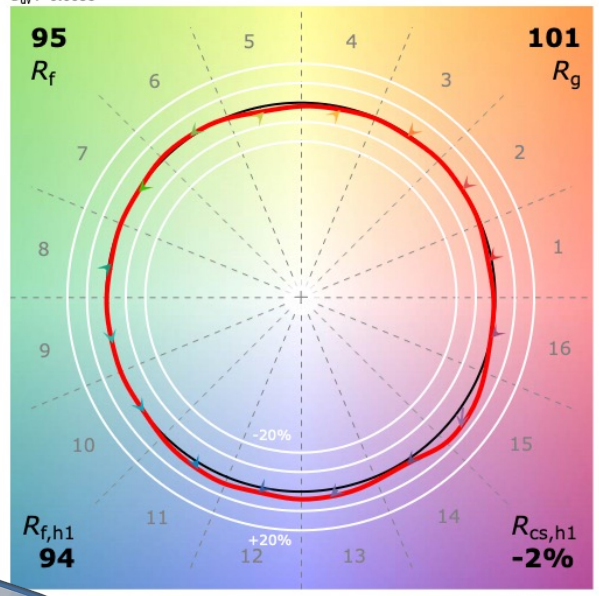
ANSI/IES TM-30-20 Color Rendition Report

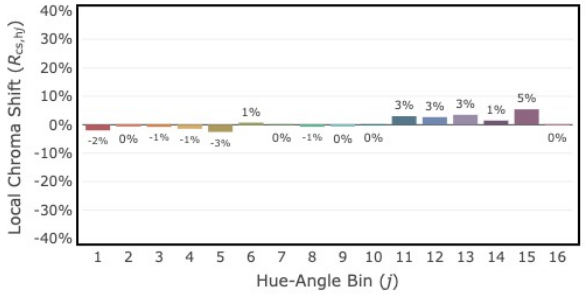
Unique Identifier:

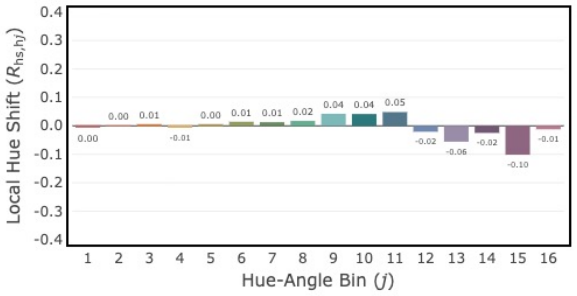
JTI_ECL-FRESNEL-ICT_LIP_P560C

CCT: **5621 K**
D_{uv}: **0.0038**

P2 V- F1







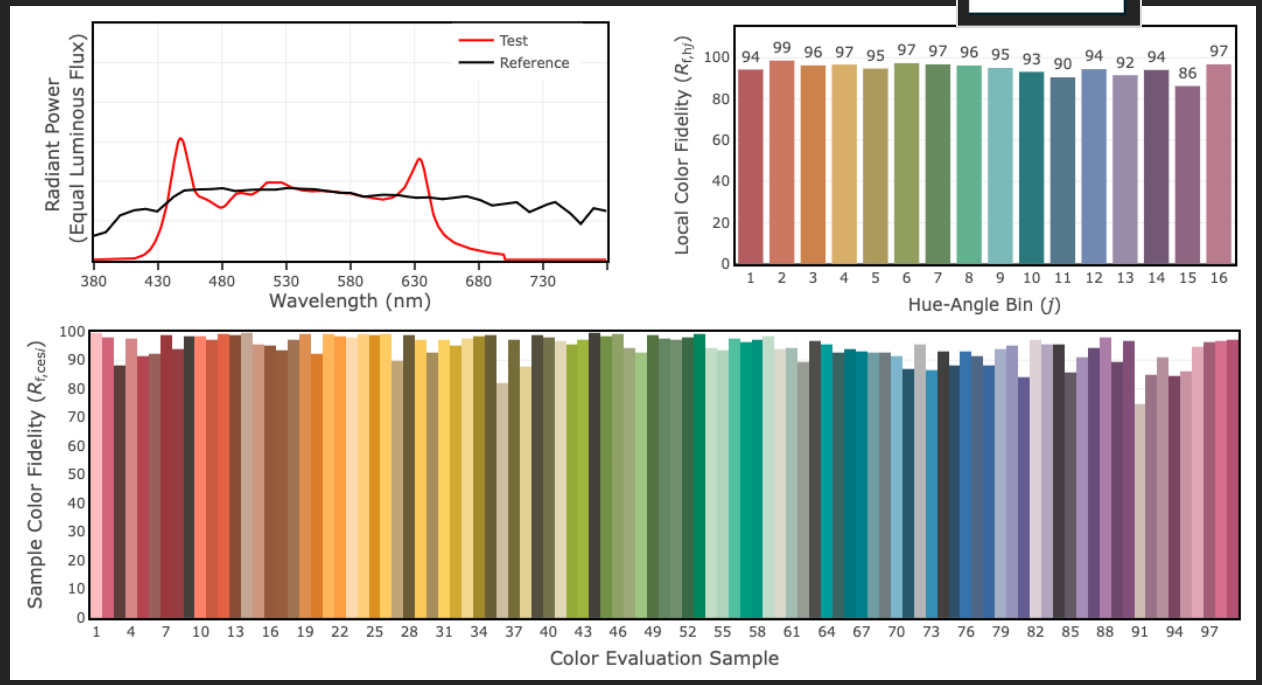
JETI

ECLFRESNEL CT TM-30-20

5600 K

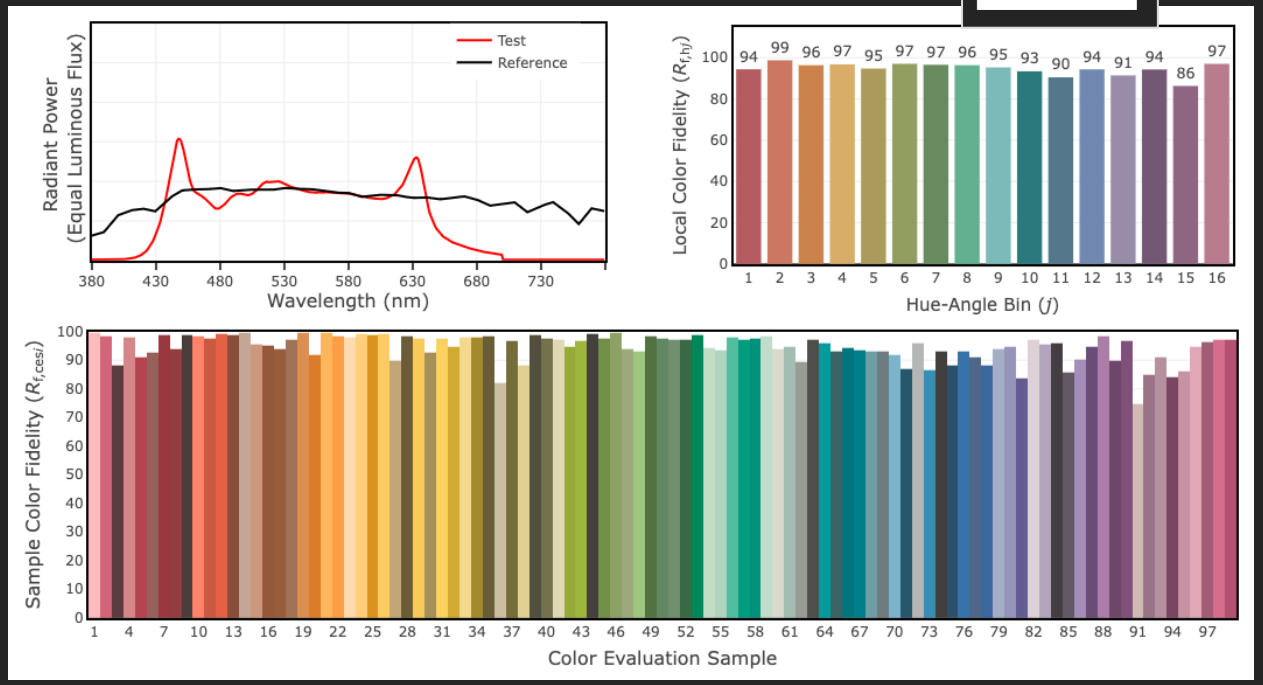
+MIP

350 W



+LIP

600 W



JETI

ECLFRESNEL CT

5600 K

Comparison chart: SSI vs TM30-20 vs CRI

+MIP

JETI 1511 HiRes					
SPD TEST	SSI	TM30 Rf	TM30 Rg	CRI Ra	CRI Re
JTI_ECL-FRESNEL-ICT_MIP_P5600_**LED_100%**	71	95	100	97,59	95,66
JTI_ECL-FRESNEL-ICT_MIP_P5600_**JTI_100%**	71	94	100	97,72	95,83
JTI_ECL-FRESNEL-ICT_MIP_P5600_**JTI_50%**	70	92	97	92,63	88,94
JTI_ECL-FRESNEL-ICT_MIP_P5600_**JTI_25%**	70	94	99	95,71	93,07

+LIP

JETI 1511 HiRes					
SPD TEST	SSI	TM30 Rf	TM30 Rg	CRI Ra	CRI Re
JTI_ECL-FRESNEL-ICT_**LIP**_P5600_**LED_100%**	71	95	101	97,9	96,02
JTI_ECL-FRESNEL-ICT_**LIP**_P5600_**JTI_100%**	71	95	101	97,9	96,02
JTI_ECL-FRESNEL-ICT_**LIP**_P5600_**JTI_50%**	71	94	101	97,71	95,74
JTI_ECL-FRESNEL-ICT_**LIP**_P5600_**JTI_25%**	70	95	101	98,09	96,32

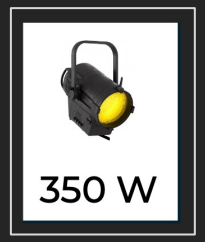
JETI

Données constructeur

Manufacturer's data

PROLIGHTS

ECLFRESNEL CT +MIP/+CIP



ECLFRESNEL

CT +MIP

350 W

Name of the tested product	EclFresnel_CT+MIP						
Company	PROLIGHTS PROJECT. TESTÉ LE 12 OCT. 2023						
Type of light: Fresnel, panel or others	Fresnel						
Full Color or Bi-Color	Full Color			IP	65		
Dimensions (inches/cm)	13.31 x 22.56 x 16.85 inches / 33,8 x 57,3 x 42,8 cm		Weight (Lbs/kg)	24,03 lbs / 10,9 kg			
Built-in ballast	Yes	~~No~~	Ballast weight				
Mandatory optical accessory	~~Yes~~	No	Optional optical accessories (excludes lightbox and louvers)	~~Yes~~	No		
If yes to optional, which ones?							
Type of circuit board material	Metal copper base for LED PCB						
Type of housing construction (metal, plastic, others)	Die-cast magnesium alloy						
Website	https://prolights.it/product/ECLFRCTPMIP						
Person in charge/Position	Fabio Sorabella / Managing Director						

Electrical power consumption					
Maximum internal temperature	68,5 °C	155,3 F			
AC/DC - Battery voltage	48 VDC	~~AC only~~	DC only Battery - voltage		
With AC, draws	2 Amps	With DC, draws	9,2 Amps		

Panel: Focusable unit	Yes	No	Beam angles		
Lux @ 1 meter (3.3 ft.) (Without diffuser)	@ 3200K / @ 5600K	Lux @ 3 meter (10ft.) (Without diffuser)	@ 3200K / @ 5600K	Lux @ 5 meter (15ft.) (Without diffuser)	@ 3200K / @ 5600K

Fresnel diameter (cm/inches)	250 cm / 10 inches	Beam angles:	Spot	9,3 °	Mid	27,2°	Flood	59,8°

Lux @ 1 meter (3.3 ft.)	115848 @ 3200K	Lux @ 3 meters (10 ft.)	12807 @ 3200K	Lux @ 5 meters (15 ft.)	4611 @ 3200K
Optic Spot	99189 @ 5600K	**Optic Spot**	11021 @ 5600K	**Optic Spot**	3967 @ 5600K
Lux @ 1 meter (3.3 ft.)	30357 @ 3200K	Lux @ 3 meters (10 ft.)	3373 @ 3200K	Lux @ 5 meters (15 ft.)	1214 @ 3200K
Optic Mid	26154 @ 5600K	**Optic Mid**	2906 @ 5600K	**Optic Mid**	1046 @ 5600K
Lux @ 1 meter (3.3 ft.)	8891 @ 3200K	Lux @ 3 meters (10 ft.)	999 @ 3200K	Lux @ 5 meters (15 ft.)	360 @ 3200K
Optic Flood	7776 @ 5600K	**Optic Flood**	864 @ 5600K	**Optic Flood**	311 @ 5600K

Full Color (RGB - Large spectrum)				
Number of color diodes	6	Types	R, G, B, Royal blue, Mint, PC Amber	
Color temperature range	1800 K	-	20000 K	
Color temperature preset	Yes	~~No~~		
Green Magenta Control	Yes	~~No~~		
Saturation Hue Adjustment	Yes	~~No~~		
Gels preset	Yes	~~No~~		
Camera profiles LUTs	~~Yes~~	No		
Color spaces	Yes	~~No~~		

The IP65 version is equipped with the LumenRadio Wireless DMX-RDM module, while the TimoTwo card features W-DMX, CRMX, CRMX2 and Bluetooth (no dedicated proprietary application), which is optional on the IP20 range.

Color index				
CRI	97			
TLCI	94			
TMA 30-18/20 - Rf	94	TMA 30-18/20 - Rg	102	
SSI [P3200]	77	SSI [CIE D55]	72	

Other specificities
Custom made 8-leaf barn door - Custom made glass Fresnel lens Spektra calibration to delivers consistency among different units High Brightness and High Quality modes PWM frequency adjustable from 600 Hz to 40 kHz Tungsten emulation. - 5 dimming speeds and 6 dimming curves Adjustable yoke on the projector to control balance Pole operated yoke and SnapBag available as options

Operating temperatures	From – 20 °C to +45 °C			From -4 F to 113 F			
Fan:	Yes	~~No~~	Switchable	Yes	~~No~~	Noise level in dB at 1 m	38,2
If switchable, % of light output	70		If switched off, for how long	-			
High speed possibility	Yes	~~No~~	Maximum speed	1440 RPM			
Camera shutter possibility	~~Yes~~	No	Maximum angle	-			

Operating positions	All	~~No: limitations:~~
Spigot diameter	28 mm	

Memory of settings	Yes	~~No~~	Wireless DMX compatibility	Yes	~~No~~
			Built in Lumen radio protocol	Yes	~~No~~
Wired DMX compatibility	Yes	~~No~~	Maximum distance	500 m	
			Master/Slave: for synchronising multiple units	Yes	~~No~~
Native apps	~~Yes~~	No	Apps compatibility	Yes	~~No~~
Which ones?					
			Color shifts when dimming	~~Yes~~	No
			Change of light levels when selecting CT	~~Yes~~	No

Environmental concern	
Warranty (in years)	2
For how long parts are available?	5 years after the product I discontinued
Average repair time	1 day
What do you know about recycling your products?	The housing is made with 75 % of recycled materials. 80 % of the material that composes the product can be recycled.
Do customers send them back to you or do they take care of it themselves?	They send it back to their distributor
Country of manufacturing	PRC – Europe for the LED engine

Please use next page for other specificities or comments. Thank you!

ECLFRESNEL

CT +LIP

600 W

Name of the tested product	EclFresnel_CT+LIP
Company	PROLIGHTS
Type of light: Fresnel, panel or others	Fresnel
Full Color or Bi-Color	Full Color
IP	65
Dimensions (inches/cm)	16,54 x 26,1 x 19,49 inches / 42 x 66,3 x 49,5 cm
Weight (Lbs/kg)	42,11 lbs / 19,1 kg
Built-in ballast	Yes / ~~No~~
Ballast weight	
Mandatory optical accessory	~~Yes~~ / No
Optional optical accessories (excludes lightbox and louvers)	~~Yes~~ / No
If yes to optional, which ones?	
Type of circuit board material	Metal copper base for LED PCB
Type of housing construction (metal, plastic, others)	Die-cast magnesium alloy
Website	https://prolights.it/product/ECLFRCTPLIP
Person in charge/Position	Fabio Sorabella / Managing Director

Electrical power consumption			
Maximum internal temperature	65,5 °C	149,9 F	
AC/DC - Battery voltage	48 VDC	~~AC only~~	DC only Battery - voltage
With AC, draws	3,3 Amps	With DC, draws	15,7 Amps

Panel: Focusable unit	Yes / No	Beam angles			
Lux @ 1 meter (3.3 ft.) (Without diffuser)	@ 3200K / @ 5600K	Lux @ 3 meter (10ft.) (Without diffuser)	@ 3200K / @ 5600K	Lux @ 5 meter (15ft.) (Without diffuser)	@ 3200K / @ 5600K

Fresnel diameter (cm/inches)	250 cm / 10 inches	Beam angles:	Spot	10,2 °	Mid	21,7 °	Flood	56,2°
Lux @ 1 meter (3.3 ft.)	138816 @ 3200K	Lux @ 3 meters (10 ft.)	15424 @ 3200K	Lux @ 5 meters (15 ft.)	5553 @ 3200K
Optic Spot	101565 @ 5600K	**Optic Spot**	11285 @ 5600K	**Optic Spot**	4063 @ 5600K
Lux @ 1 meter (3.3 ft.)	52731 @ 3200K	Lux @ 3 meters (10 ft.)	5859 @ 3200K	Lux @ 5 meters (15 ft.)	2109 @ 3200K
Optic Mid	37458 @ 5600K	**Optic Mid**	4162 @ 5600K	**Optic Mid**	1498 @ 5600K
Lux @ 1 meter (3.3 ft.)	16254 @ 3200K	Lux @ 3 meters (10 ft.)	1806 @ 3200K	Lux @ 5 meters (15 ft.)	650 @ 3200K
Optic Flood	11520 @ 5600K	**Optic Flood**	1280 @ 5600K	**Optic Flood**	461 @ 5600K

Full Color (RGB - Large spectrum)			
Number of color diodes	6	Types	R, G, B, Royal blue, Mint, PC Amber
Color temperature range	1800 K	-	20000 K
Color temperature preset	Yes		~~No~~
Green Magenta Control	Yes		~~No~~
Saturation Hue Adjustment	Yes		~~No~~
Gels preset	Yes		~~No~~
Camera profiles LUTs	~~Yes~~		No
Color spaces	Yes		~~No~~

The IP65 version is equipped with the LumenRadio Wireless DMX-RDM module, while the TimoTwo card features W-DMX, CRMX, CRMX2 and Bluetooth (no dedicated proprietary application), which is optional on the IP20 range.

Color index				
CRI	97,5			
TLCI	94			
TMA 30-18/20 - Rf	94	TMA 30-18/20 - Rg	101	
SSI [P3200]	76	SSI [CIE D55]	70	

Other specificities
Custom made 8-leaf barn door - Custom made glass Fresnel lens
Spektra calibration to delivers consistency among different units
High Brightness and High Quality modes
PWM frequency adjustable from 600 Hz to 40 kHz
Tungsten emulation
5 dimming speeds and 6 dimming curves
Adjustable yoke on the projector to control balance
Pole operated yoke and SnapBag available as options

Operating temperatures	From – 20 °C to +45 °C		From -4 F to 113 F		
Fan:	Yes / ~~No~~	Switchable	Yes / ~~No~~	Noise level in dB at 1 m	38,2
If switchable, % of light output	70	If switched off, for how long	-		
High speed possibility	Yes / ~~No~~	Maximum speed	1750 RPM		
Camera shutter possibility	~~Yes~~ / No	Maximum angle	-		

Operating positions	All	~~No: limitations:~~
Spigot diameter	28 mm	

Memory of settings	Yes / ~~No~~	Wireless DMX compatibility	Yes / ~~No~~
		Built in Lumen radio protocol	Yes / ~~No~~
Wired DMX compatibility	Yes / ~~No~~	Maximum distance	500 m
		Master/Slave: for synchronising multiple units	Yes / ~~No~~
Native apps	~~Yes~~ / No	Apps compatibility	Yes / ~~No~~
Which ones?			
		Color shifts when dimming	~~Yes~~ / No
		Change of light levels when selecting CT	~~Yes~~ / No

Environmental concern	
Warranty (in years)	2
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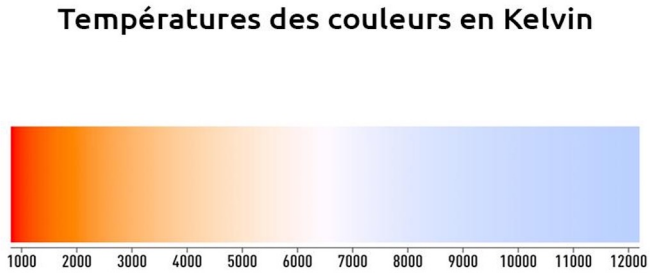
Explications / Explanations

K / CCT K / Duv /

x,y coordinates

Explications / Explanation

Type de données : Type of data:	Temp K	CCT K	Duv	x	y	SSI

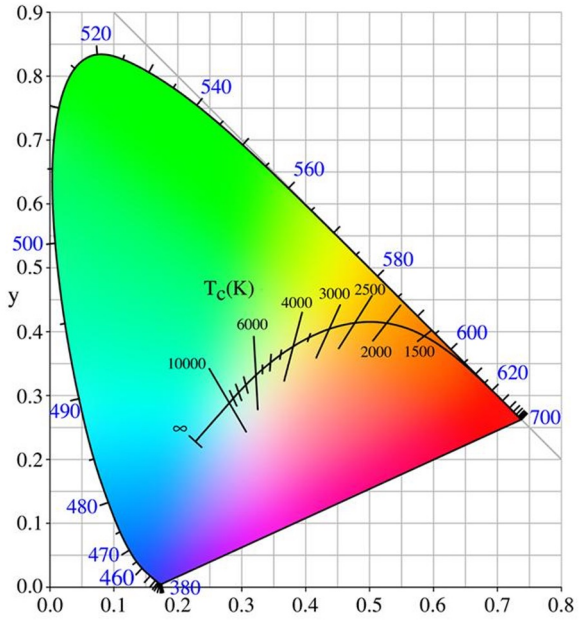


La température de couleur est la valeur cible idéale que nous cherchons à atteindre pour faire les mesures (3200 ou 5600). Celle-ci est basée sur la CCT et son unité est donc le Kelvin (K). La valeur peut être donnée directement par le projecteur ou réglée et ajustée avec les mesures prisent par le spectroradiomètre JETI 1511 HiRes.

The color temperature is the ideal target value we aim to achieve for measurements (3200 or 5600). It is based on the CCT and its unit is Kelvin (K). The value can be directly provided by the projector or set and adjusted using the measurements taken by the JETI 1511 HiRes spectroradiometer.

Explications / Explanation

Type de données : Type of data:	Temp K	CCT K	Duv	x	y	SSI

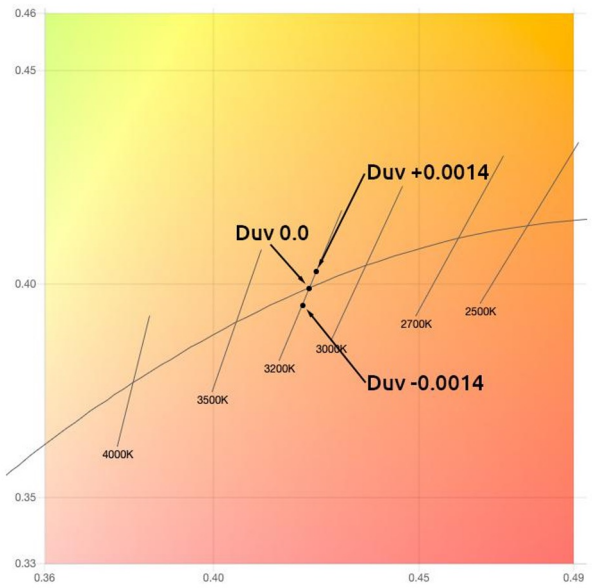


La CCT ou température de couleur corrélée, est la température précise d'un radiateur de Planck (corps noir) ayant la chromaticité la plus proche possible de celle associée à une distribution spectrale donnée. La CCT est donc calculée à partir de la distribution spectrale (SPD) de la source lumineuse ; Elle utilise comme unité standard le Kelvin (K). La CCT seule ne suffit pas pour définir précisément les coordonnées chromatiques (x, y ou u', v') d'une couleur, il faut également le Duv.

CCT, or correlated color temperature, is the precise temperature of a Planckian radiator (black body) that has a chromaticity as close as possible to that associated with a given spectral distribution. CCT is calculated from the spectral power distribution (SPD) of the light source; it uses Kelvin (K) as the standard unit. CCT alone is not sufficient to precisely define the chromatic coordinates (x, y or u', v') of a color, Duv is also required.

Explications / Explanation

Type de données : Type of data:	Temp K	CCT K	Duv	x	y	SSI

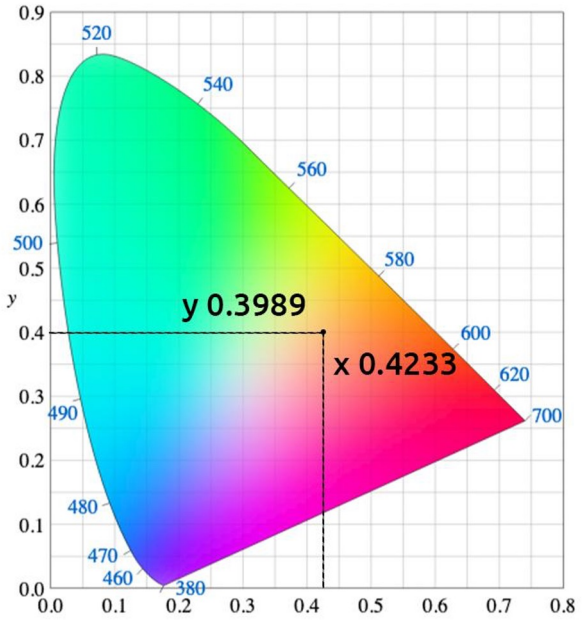


Le Duv ou Delta u,v est utilisé pour décrire la distance entre les coordonnées chromatiques de la source de lumière et le radiateur de Planck, appelé également lieu du corps noir. Une valeur négative indique que la source est en dessous de la courbe du corps noir (dominante magenta ou rose), une valeur positive indique que la source est au-dessus de la courbe du corps noir (dominante verte ou jaune). L'EBU TECH 3355 préconise une valeur limite de viabilité a la CCT (différence juste perceptible) de 0,0054, l'ANSI une valeur de +-0,006.

Duv or Delta u,v is used to describe the distance between the chromatic coordinates of the light source and the Planckian radiator, also known as the black body. A negative value indicates that the source is below the black body curve (magenta or pink tint), while a positive value indicates that the source is above the black body curve (green or yellow tint). The EBU TECH 3355 recommends a perceptibility threshold at the CCT
(just noticeable difference) of 0.0054, while ANSI recommends a value of +-0.006.

Explications / Explanation

Type de données : Type of data:	Temp K	CCT K	Duv	x	y	SSI



Le système de coordonnées CIE xy 1931 est dérivé du système CIE XYZ. Les valeurs x et y sont des coordonnées cartésiennes qui permettent de définir précisément une couleur, sans toutefois prendre en compte sa luminance.

The CIE 1931 xy coordinate system is derived from the CIE XYZ system. The x and y values are Cartesian coordinates that allow for precise color definition, without considering its luminance.

Tournage des tests

Shooting tests

Directeur de Cininter	François Roger	Cininter, CEO
Directeur de la photographie, AFC	Philippe Ros	Cinematographer, AFC & co-chair of the ITC
Directeur technique de la CST	Éric Chérioux	CST Technical Manager
Directeur de la photographie, AFC	Patrick Duroux	Cinematographer AFC
Directrice de la photographie, UCO & Représentante du département image de la CST	Françoise Noyon	Cinematographer, UCO & Representative of the CST image department
Consultant en postproduction & Représentant du département image de la CST	Thierry Beaumel	Post-production consultant & Representative of the CST image department
Senior coloriste, AFC membre associé	Jean Coudsi	Senior Colorist, AFC associate member
Monteuse, CST	Bohdana Korohod	Editor, CST
Responsable de la communication externe et interne CST	Sebastien Lefebvre	Head of External and Internal Communications CST

Banque de données / Data Bank

PDF presentations

Directeur de la photographie, AFC	Philippe Ros	Cinematographer, AFC & co-chair of the ITC
Directeur technique de la CST	Éric Chérioux	CST Technical Manager
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Clips

Monteuse, CST	Bohdana Korohod	Editor, CST
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