Journée Très LEDs - De beaux tests à faire

Images & mesures par constructeur

JTL 9

TRANSPA

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A Bright LED day - Brilliant tests on the horizon

Images & measurements by manufacturer

DEDOLIGHT

DLED7N-C

ARRI ALEXA 35

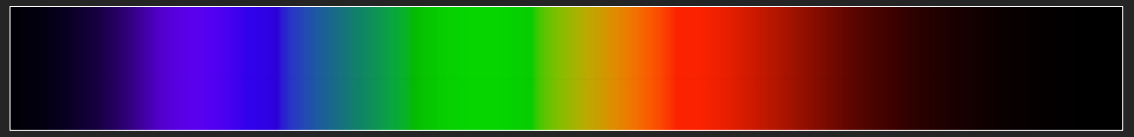
https://www.zebra-groupe.com

https://dedolightcalifornia.com/products/pre-order-deposit-dedolight-neo-wireless-gold-mount-multi-color-dled7c-focusing-light-set-with-dtneoc-ballast-aftermarket-procali-gold-mount-d-tap-modification

Full-color

80 w

Données du fabricant
/ Manufacturer's data



DEDOLIGHT

DLED7N-C

Interview du fabricant en français :

Interview with the manufacturer in French:

https://youtu.be/ogew2AD_6BU

Plan / Plan

- DLED7N-C & Images
  - ✓ Peau caucasienne
    - Comparatifs DLED7N-C vs tungstène
    - Sous-exposition : ND 06 vs gradateur
  - ✓ Peau noire
    - Comparatifs DLED7N-C avec tungstène
    - Sous-exposition : ND 06 vs gradateur
- Mesures : Explications & exemples
- Mesures
- DLED7N-C, Spectra & SSI
- DLED7N-C, Images, Spectra & SSI
- DLED7N-C, & TM-30
- Données constructeur
- Explications : K, CCT K, Duv & coordonnées x,y

- DLED7N-C & Images
  - ✓ Caucasian skin tone
    - Comparison DLED7N-C vs tungsten
    - Underexposure: ND 06 vs dimmer
  - ✓ Black skin tone
    - Comparison DLED7N-C vs tungsten
    - Underexposure ND 06 vs dimmer
- Measurements: Explanations & examples
- Measurements
- DLED7N-C, Spectra & SSI
- DLED7N-C, Images, Spectra & SSI
- DLED7N-C & TM-30
- Manufacturer’s data
- Explanations of K, CCT K, Duv & x,y coordinates

DLED7N-C
& Images

CAUCASIAN

Alice

ARRI ALEXA 35

DLED7N-C

Comparison with

TUNGSTEN

Images & données DEDOLIGHT DLED7N-C Images & Data

Images & données DEDOLIGHT DLED7N-C Images & Data

Images & données DEDOLIGHT DLED7N-C Images & Data

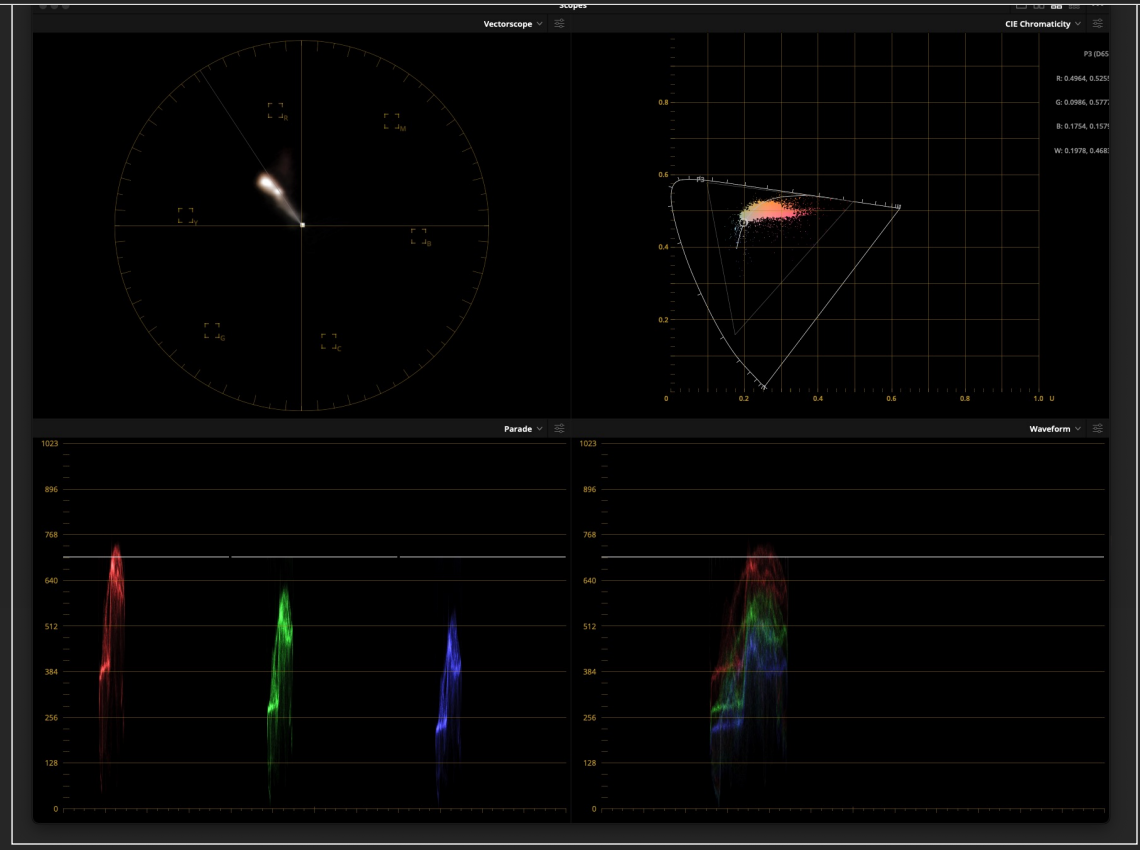
TUNGSTEN REF.

ARRI ALEXA 35

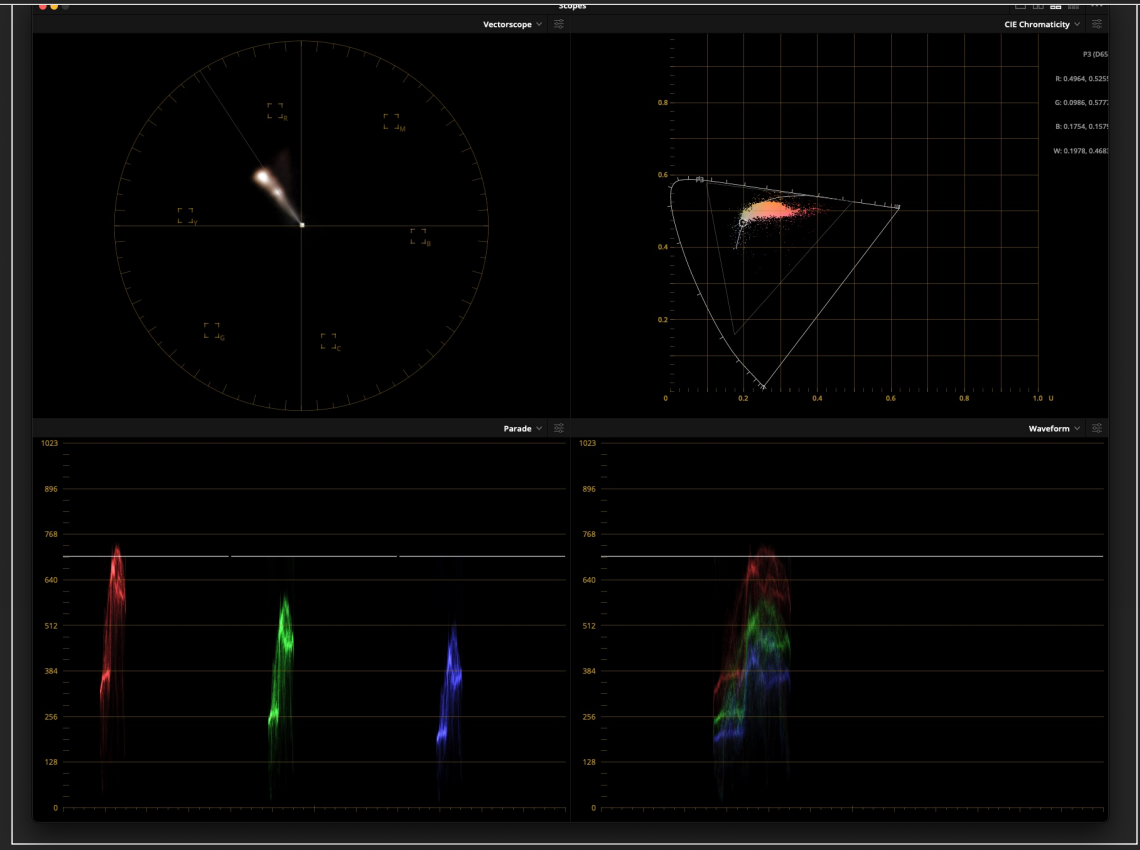
GRADED

DLED7N-C

Images & données DEDOLIGHT DLED7N-C Images & Data



Images & données DEDOLIGHT DLED7N-C Images & Data



CAUCASIAN

Alice

ARRI ALEXA 35

DLED7N-C

UNDEREXPOSED (-2 STOPS ND 06)

Comparison with

DIMMER @ 25%

Images & données DEDOLIGHT DLED7N-C Images & Data

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 DEDOLIGHT DLED7N-C Images & Data

UNGRADED

DLED7N-C

Underexposed -2 stops

Images & données DEDOLIGHT DLED7N-C Images & Data

GRADED

DLED7N-C

Underexposed -2 stops

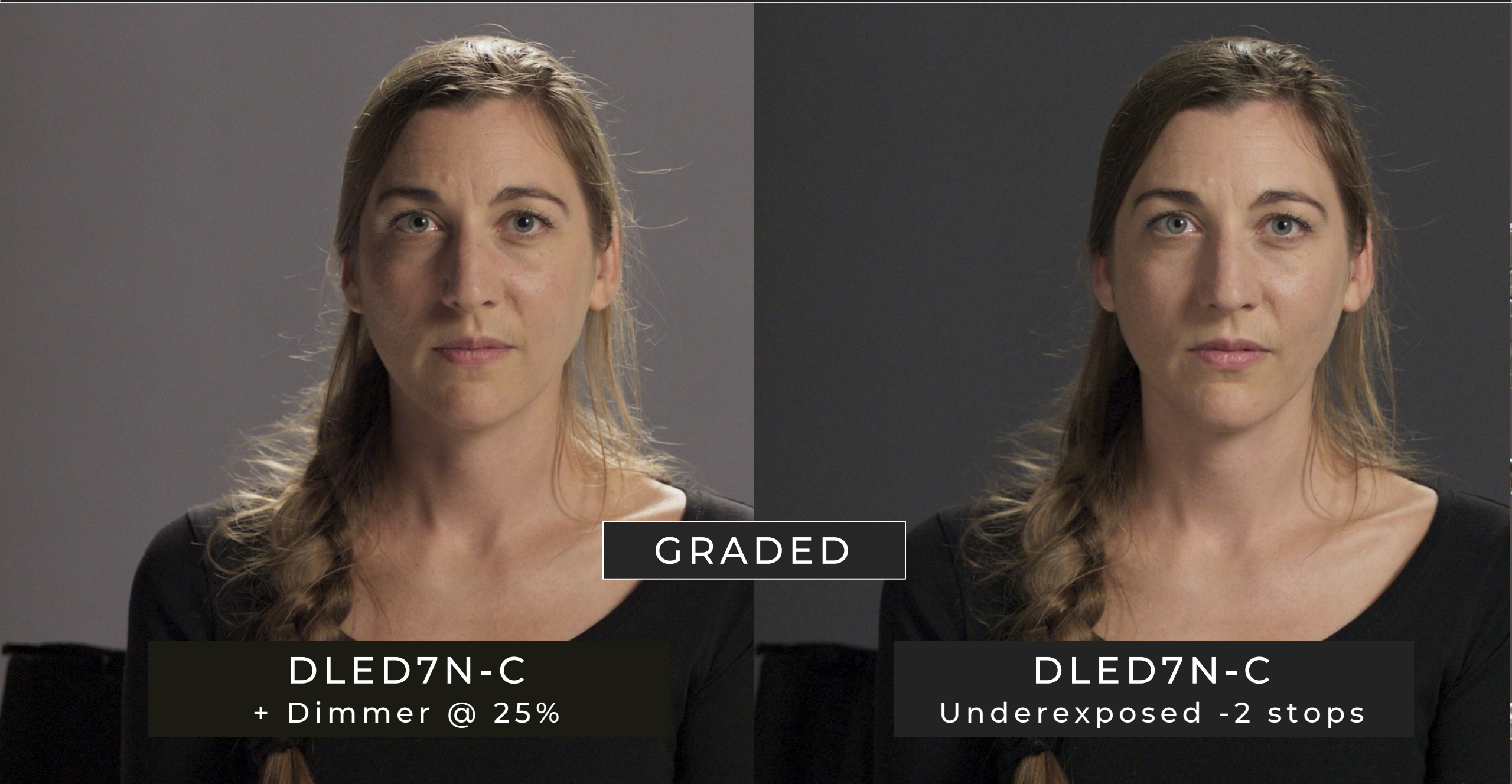
Images & données DEDOLIGHT DLED7N-C Images & Data

UNGRADED

Images & données DEDOLIGHT DLED7N-C Images & Data

GRADED

Images & données DEDOLIGHT DLED7N-C Images & Data



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

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

GRADED

DLED7N-C
+ Dimmer @ 25%

DLED7N-C
Underexposed -2 stops

Images & données DEDOLIGHT DLED7N-C Images & Data

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

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

UNGRADED

DLED7N-C
+ Dimmer @ 25%

DLED7N-C
Underexposed -2 stops

BLACK SKIN TONE

Naymee

ARRI ALEXA 35

DLED7N-C

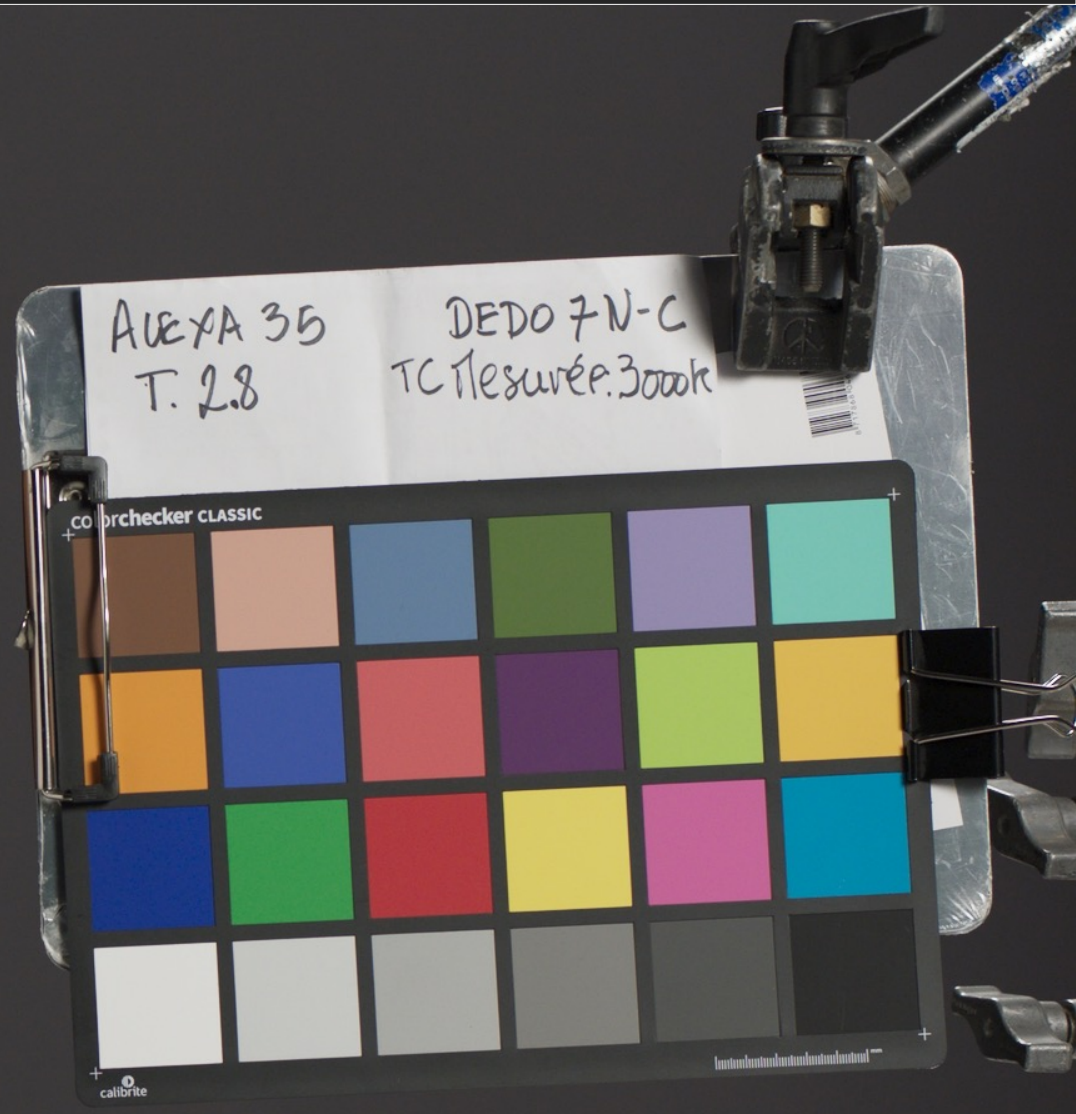
Comparison with

TUNGSTEN

Images & données DEDOLIGHT DLED7N-C Images & Data

Images & données DEDOLIGHT DLED7N-C Images & Data

DLED7N-C



ARRI ALEXA 35

GRADED

Images & données DEDOLIGHT DLED7N-C Images & Data

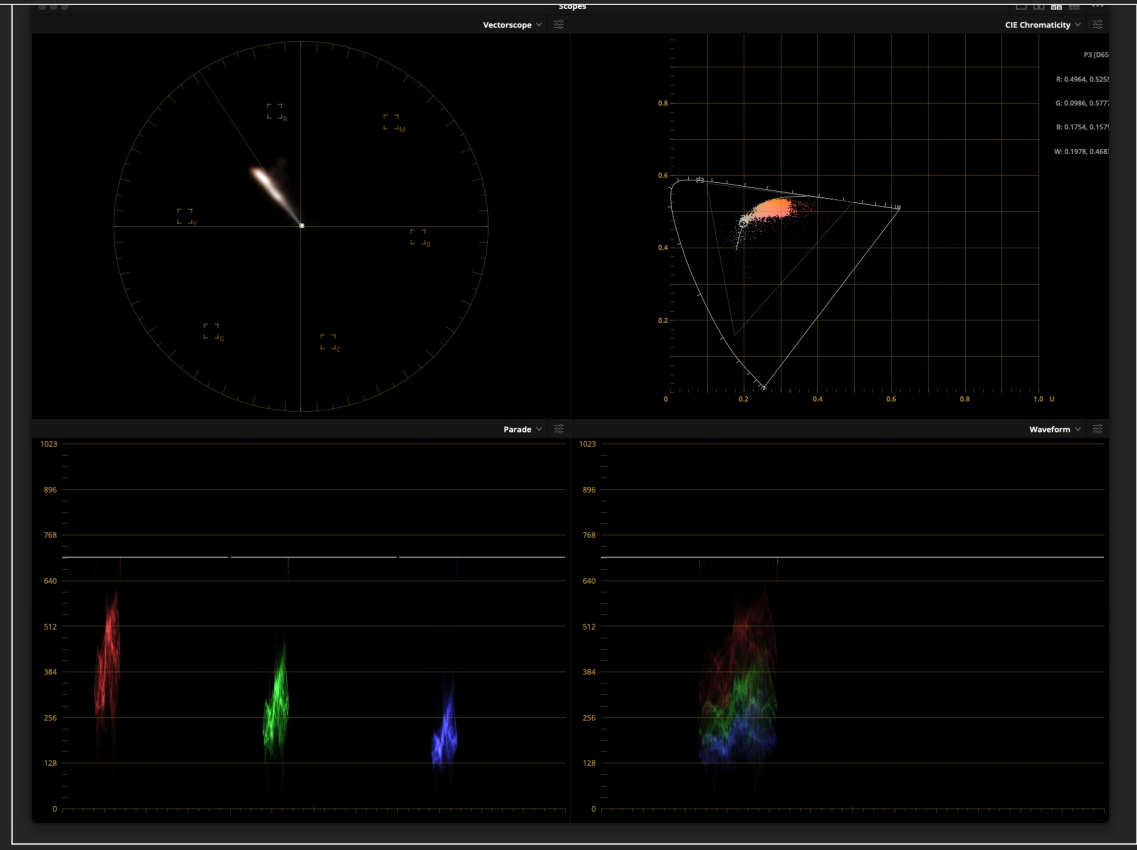
TUNGSTEN REF.

ARRI ALEXA 35

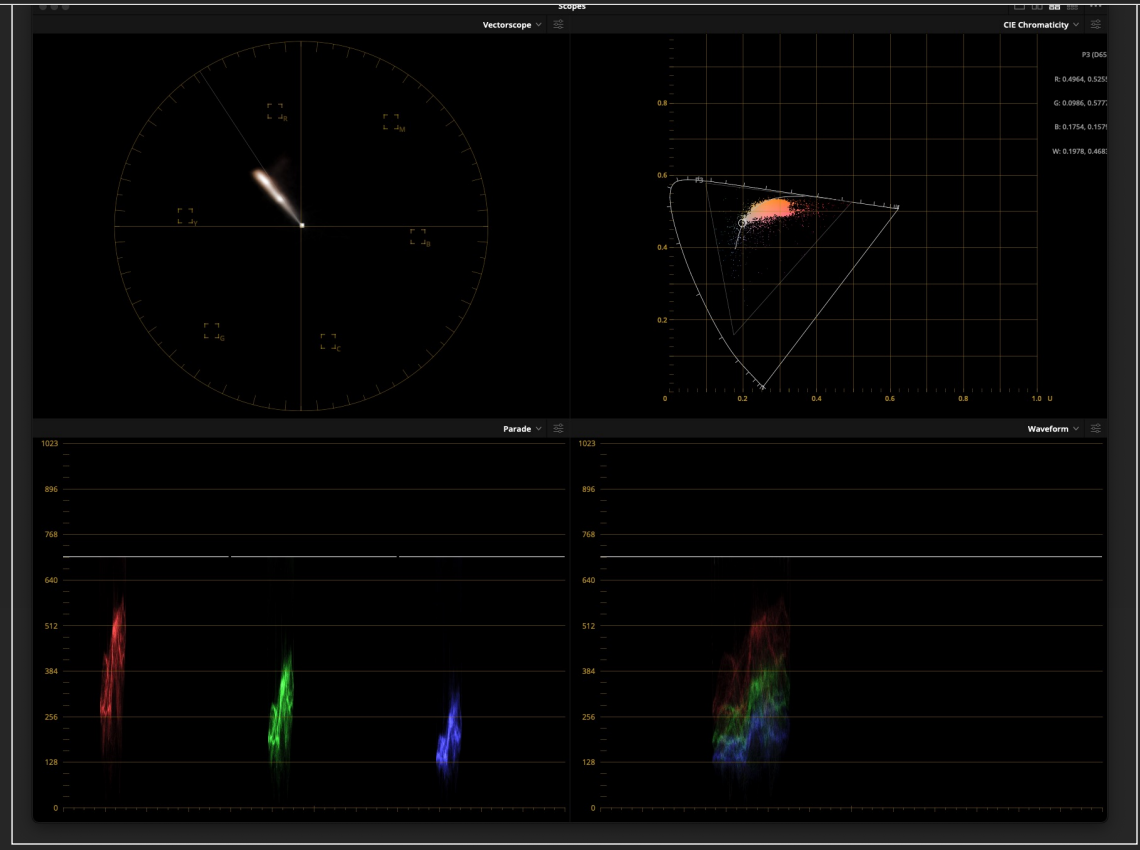
GRADED

DLED7N-C

Images & données DEDOLIGHT DLED7N-C Images & Data



Images & données DEDOLIGHT DLED7N-C Images & Data



BLACK SKIN TONE

Naymee

ARRI ALEXA 35

DLED7N-C

UNDEREXPOSED (-2 STOPS ND 06)

Comparison with

DIMMER @ 25%

UNGRADED

DLED7N-C

Underexposed -2 stops

GRADED

DLED7N-C

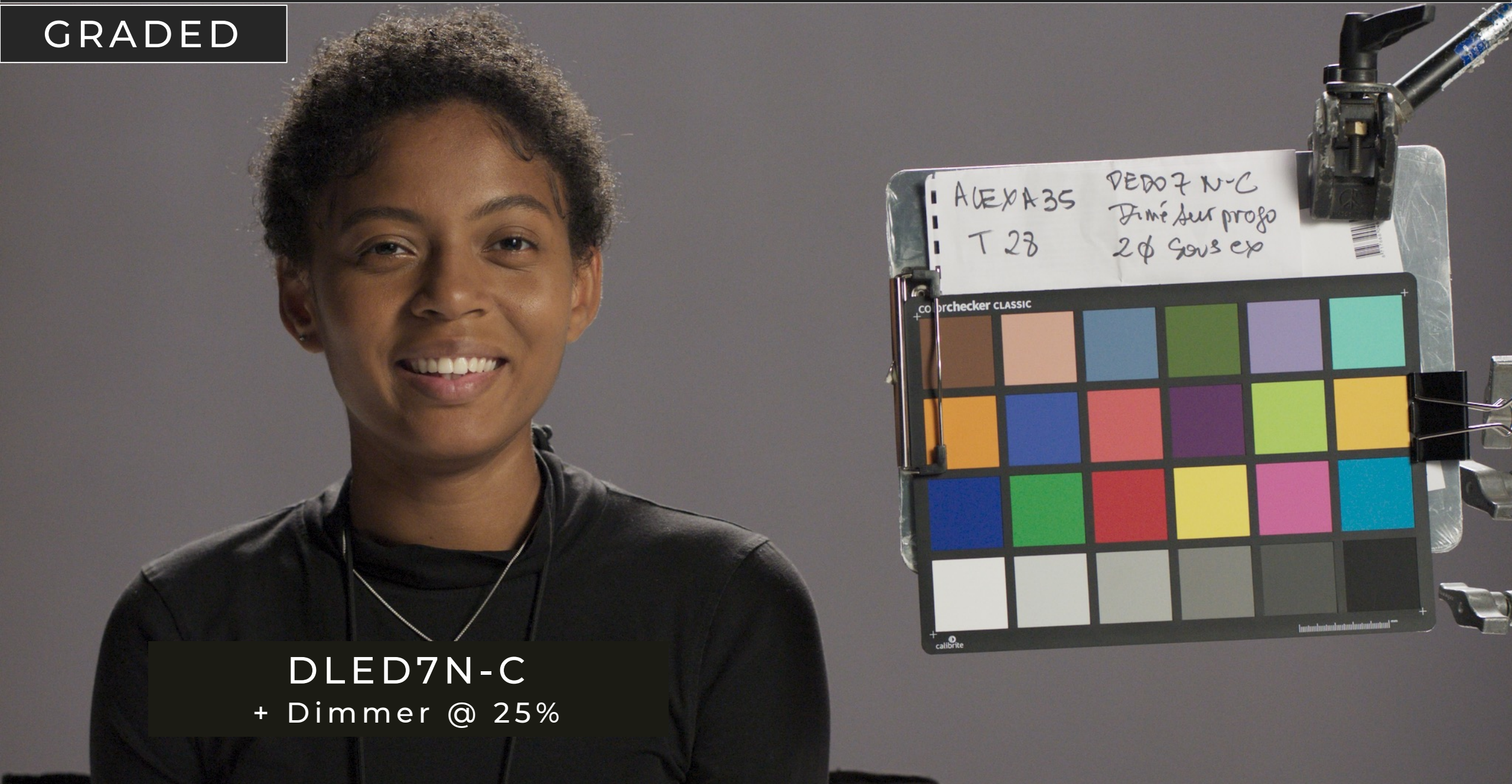
Underexposed -2 stops

UNGRADED

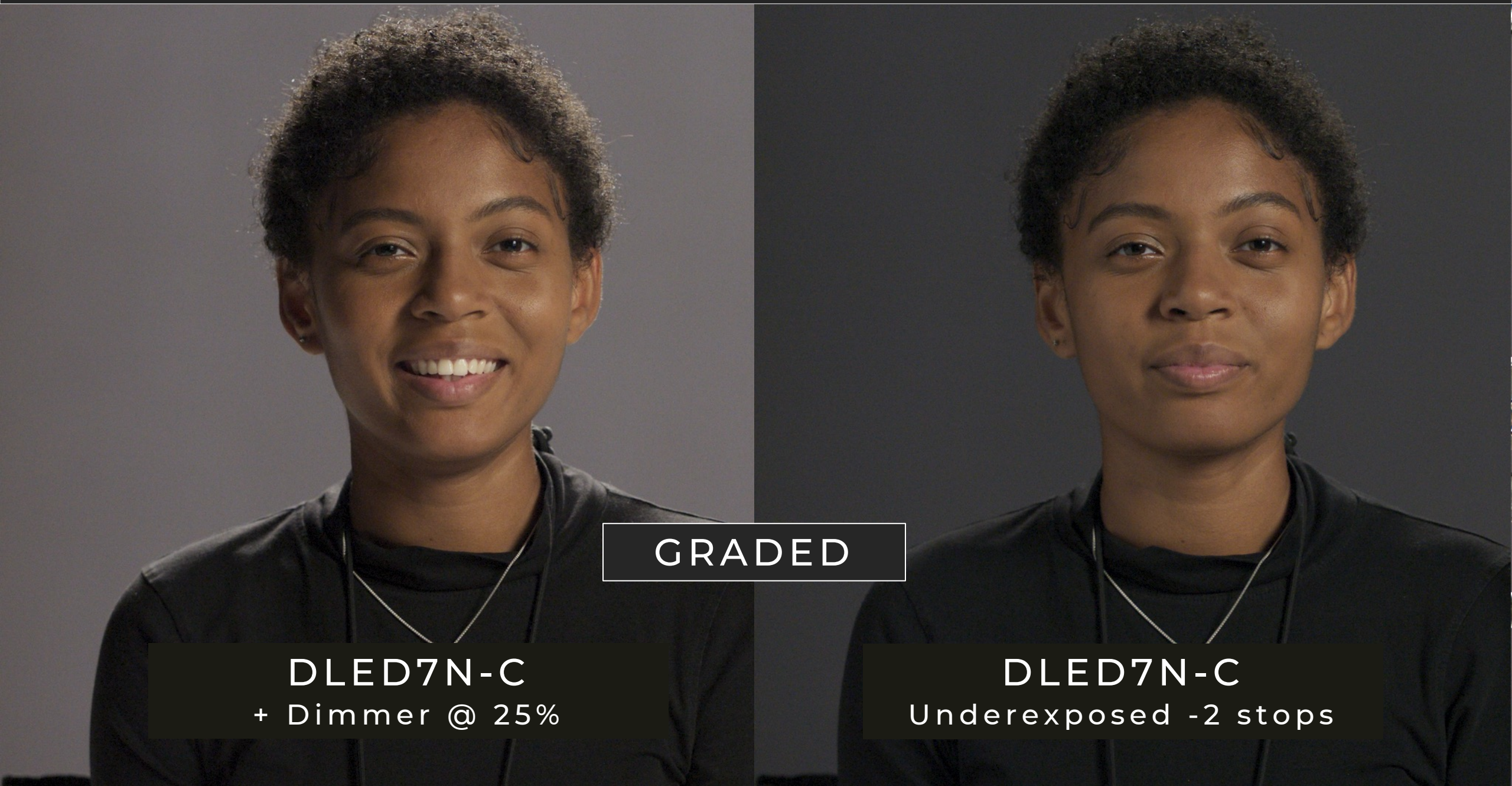

ALEXA35
T 28
DED7N-C
Dimé sur prog
2ϕ sous ex
colorchecker CLASSIC
calibrite
DLED7N-C
+ Dimmer @ 25%

Images & données DEDOLIGHT DLED7N-C Images & Data

GRADED



Images & données DEDOLIGHT DLED7N-C Images & Data



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

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

GRADED

DLED7N-C
+ Dimmer @ 25%

DLED7N-C
Underexposed -2 stops

Images & données DEDOLIGHT DLED7N-C Images & Data

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

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

UNGRADED

DLED7N-C
+ Dimmer @ 25%

DLED7N-C
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

Images & données DEDOLIGHT DLED7N-C Images & Data

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 DLED7N-C

LIGHT			JETI 1511 HiRes					
Ref	Power	Temp K	CCT K	Duv	x	y	SPD TEST csv	SSI
DEDOLIGHT D LED 7C	100%	CCT set on **LED** - 3200	2915	-0,005	0,4362	0,3924	JTI_DEDOLIGHT-D-LED-7C_P3200_**LED_100%**	72

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

DEDOLIGHT D LED 7C	100%	CCT set on **JETI** - 3200	3196	-0,004	0,4192	0,3889	JTI_DEDOLIGHT-D-LED-7C_P3200_**JTI_100%**	75

Example on DLED7N-C

LIGHT			JETI 1511 HiRes					
Ref	Power	Temp K	CCT K	Duv	x	y	SPD TEST csv	SSI
DEDOLIGHT D LED 7C	100%	CCT set on **LED** - 3200	2915	-0,005	0,4362	0,3924	JTI_DEDOLIGHT-D-LED-7C_P3200_**LED_100%**	72

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

DEDOLIGHT D LED 7C	100%	CCT set on **JETI** - 3200	3196	-0,004	0,4192	0,3889	JTI_DEDOLIGHT-D-LED-7C_P3200_**JTI_100%**	75

Images & données DEDOLIGHT DLED7N-C Images & Data

Pourquoi tester à différentes puissances ?
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

/

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

- 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

DLED7N-C

3200 K

5600 K

3200 K

DLED7N-C

LIGHT			JETI 1511 HiRes					
Ref	Power	Temp K	CCT K	Duv	x	y	SPD TEST	SSI
VISUAL TUNGSTEN REF.	100%	3200	3012	0,001	0,4372	0,406	TUNGSTEN	93
DEDOLIGHT D LED 7C	100%	CCT set on **LED** - 3200	2915	-0,005	0,4362	0,3924	JTI_DEDOLIGHT-D-LED-7C_P3200_**LED_100%**	72
DEDOLIGHT D LED 7C	100%	CCT set on **JETI** - 3200	3196	-0,004	0,4192	0,3889	JTI_DEDOLIGHT-D-LED-7C_P3200_**JTI_100%**	75
DEDOLIGHT D LED 7C	50%	CCT set on **JETI** - 3200	3135	-0,001	0,4266	0,3985	JTI_DEDOLIGHT-D-LED-7C_P3200_**JTI_50%**	74
DEDOLIGHT D LED 7C	25%	CCT set on **JETI** - 3200	3131	-0,002	0,4251	0,3946	JTI_DEDOLIGHT-D-LED-7C_P3200_**JTI_25%**	73

SEKONIC C-800			GOSSEN MAVOSPEC BASE			
CCT	Duv	SSI	CCT	Duv	SSI	SPD TEST
3023	0,0002	96	-	-	-	VISUAL REF-TUNGSTEN
2987	-0,001	76	2943	-0,0016	76	GSN_DEDOLIGHT-D-LED-7C_P3200_**LED_100%**
3245	0,0002	77	3155	-0,0008	78	GSN_DEDOLIGHT-D-LED-7C_P3200_**JTI_100%**
3168	0,0013	76	3128	0,0009	77	GSN_DEDOLIGHT-D-LED-7C_P3200_**JTI_50%**
3194	0,0003	75	3135	-0,0003	75	GSN_DEDOLIGHT-D-LED-7C_P3200_**JTI_25%**

DLED7N-C

5600 K

LIGHT			JETI 1511 HiRes					
Ref	Power	Temp K	CCT K	Duv	x	y	SPD TEST	SSI
DEDOLIGHT D LED 7C	100%	CCT set on **LED** - 5600	5358	-0,004	0,3356	0,3366	JTI_DEDOLIGHT-D-LED-7C_P5600_**LED_100%**	69
DEDOLIGHT D LED 7C	100%	CCT set on **JETI** - 5600	5637	-0,004	0,3295	0,3316	JTI_DEDOLIGHT-D-LED-7C_P5600_**JTI_100%**	68
DEDOLIGHT D LED 7C	50%	CCT set on **JETI** - 5600	5258	-0,001	0,3381	0,3438	JTI_DEDOLIGHT-D-LED-7C_P5600_**JTI_50%**	68
DEDOLIGHT D LED 7C	25%	CCT set on **JETI** - 5600	4965	0,002	0,3466	0,3574	JTI_DEDOLIGHT-D-LED-7C_P5600_**JTI_25%**	68

SEKONIC C-800			GOSSEN MAVOSPEC BASE			
CCT	Duv	SSI	CCT	Duv	SSI	SPD TEST
5405	-0,0015	70	5167	-0,0007	71	GSN_DEDOLIGHT-D-LED-7C_P5600_**_LED_100**
5529	-0,001	69	5293	-0,0003	71	GSN_DEDOLIGHT-D-LED-7C_P5600_**JTI_100%**
5271	-0,0008	69	5017	0,001	70	GSN_DEDOLIGHT-D-LED-7C_P5600_**JTI_50%**
5006	0,0032	69	4831	0,0042	69	GSN_DEDOLIGHT-D-LED-7C_P5600_**JTI_25%**

DLED7N-C

Spectra & SSI

TM-30-18 & CRI

3200 K

5600 K

JETI

Images & données DEDOLIGHT DLED7N-C Images & Data

Manufacturer

PROJECTOR

Power: 100% - CCT set on JETI

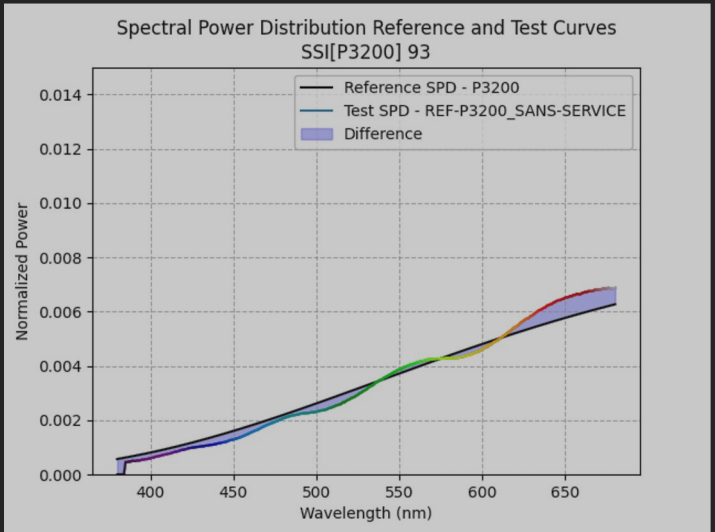
CCT 3012 Duv 0,001

CIE 1931 2° x 0.4372 y 0.4060

CRI Ra 97.51

IES TM-30-18 Rf 98 Rg 100

SSI[P3200] 93

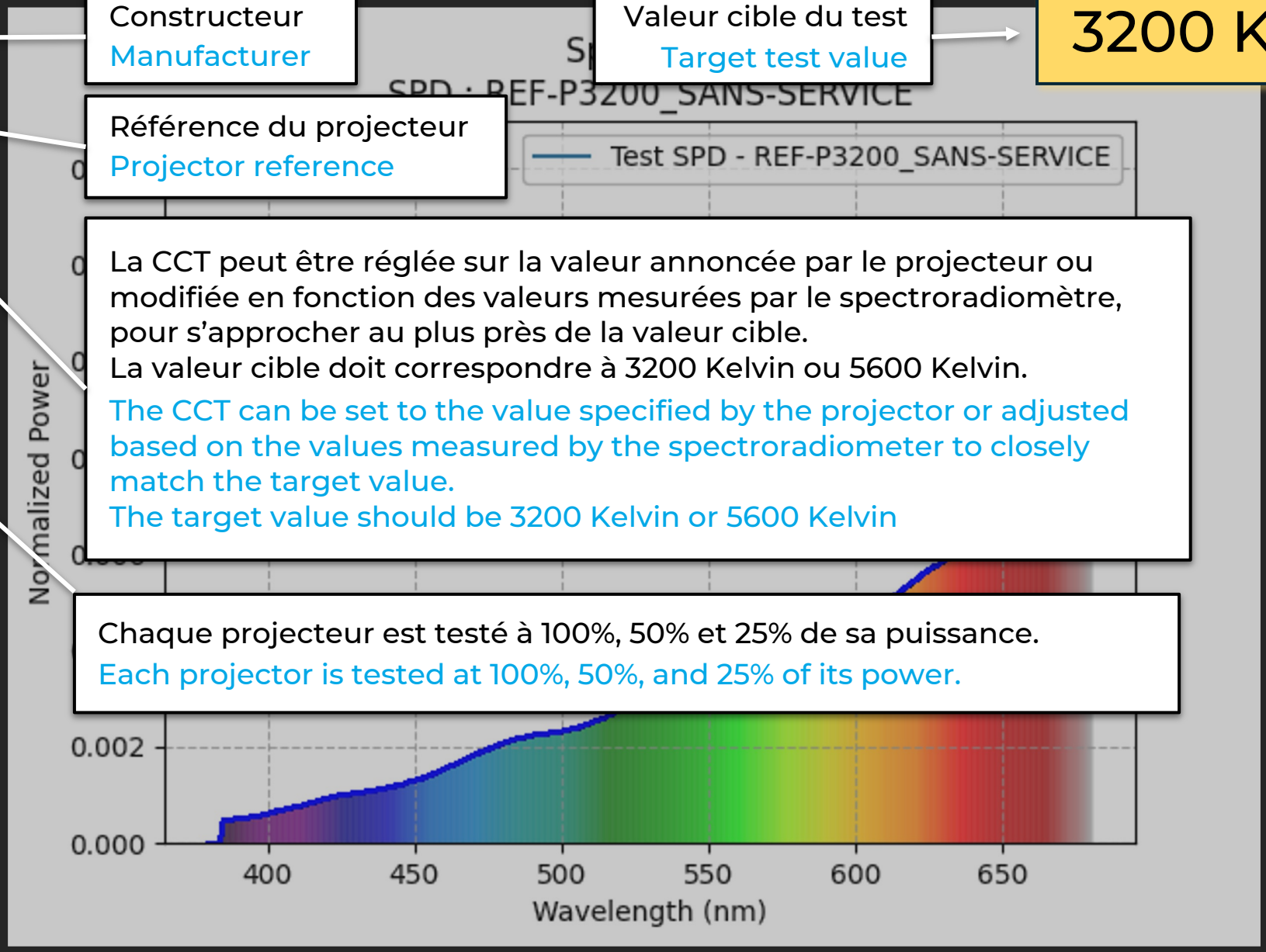


Constructeur
Manufacturer

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 DEDOLIGHT DLED7N-C Images & Data

Manufacturer

PROJECTOR

Power: 100% - CCT set on JETI

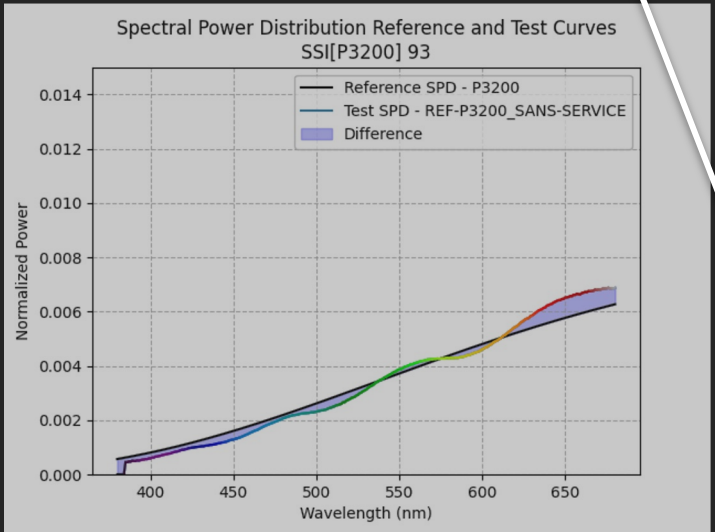
CCT 3012 Duv 0,001

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 DEDOLIGHT DLED7N-C Images & Data

3200 K

Manufacturer

PROJECTOR

Power: 100% - CCT set on JETI

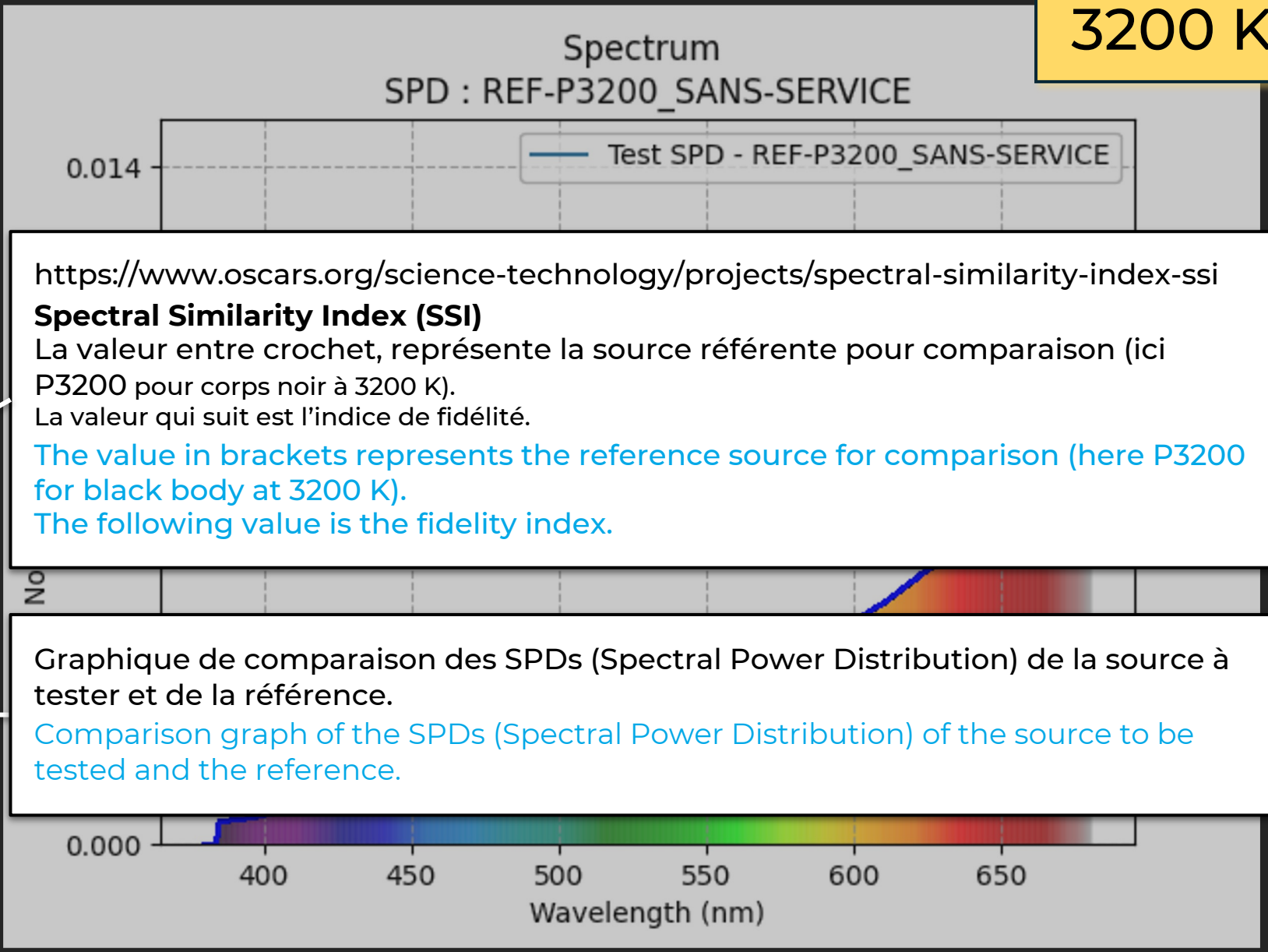
CCT 3012 Duv 0,001

CIE 1931 2° x 0.4372 y 0.4060

CRI Ra 97.51

IES TM-30-18 Rf 98 Rg 100

SSI[P3200] 93



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

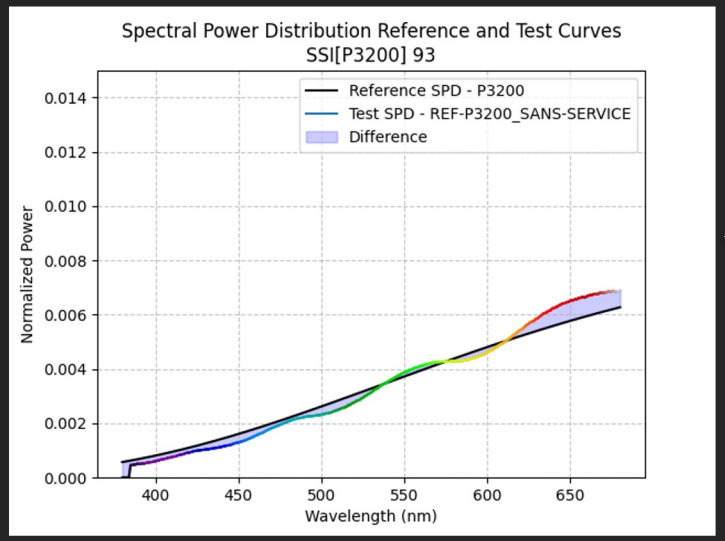
Spectral Similarity Index (SSI)

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.

DLED7N-C

3200 K

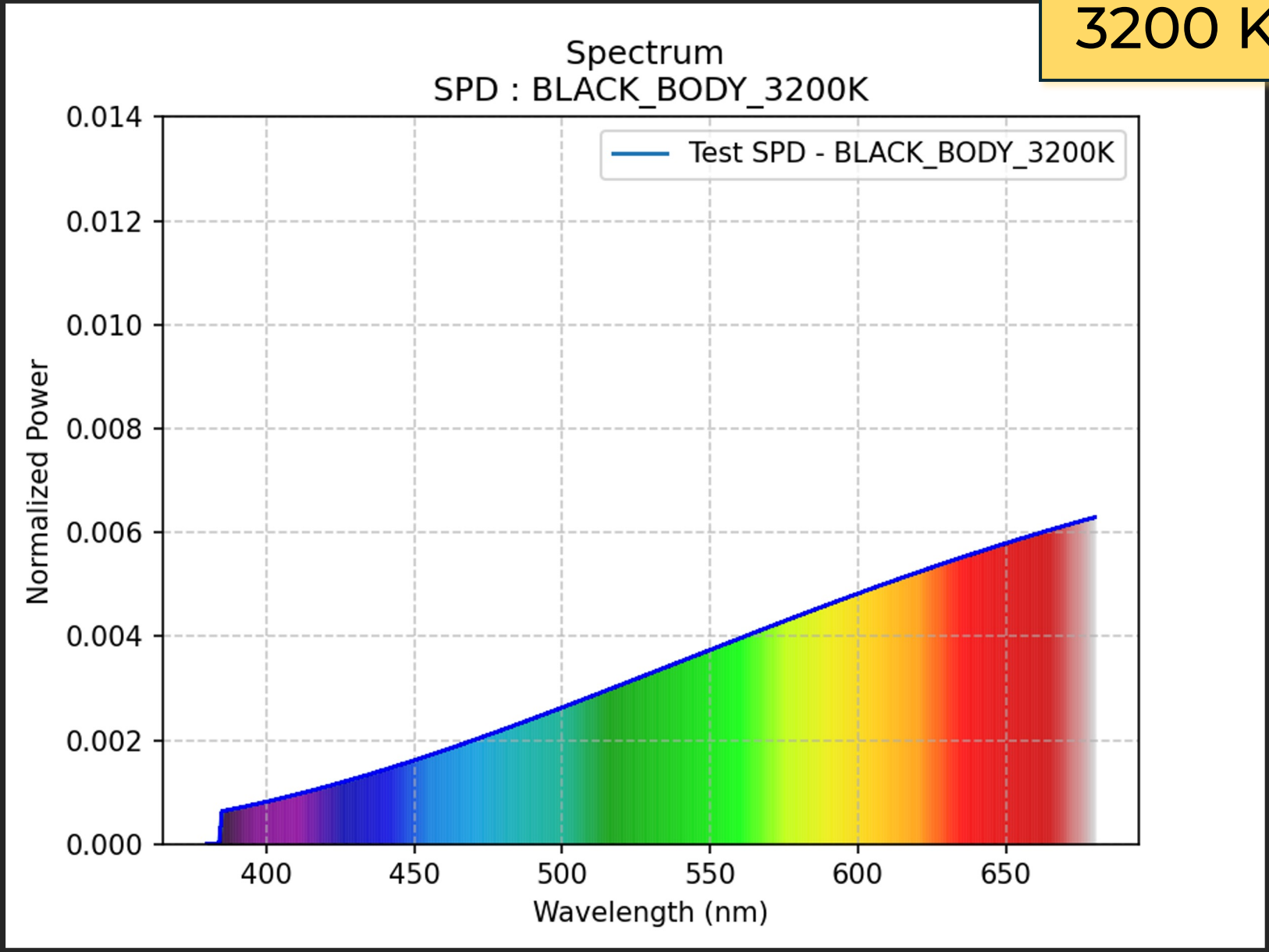
JETI

SSI REFERENCE

Corps noir / Black body

3200 K

3200 K



SOURCE TUNGSTEN comparative

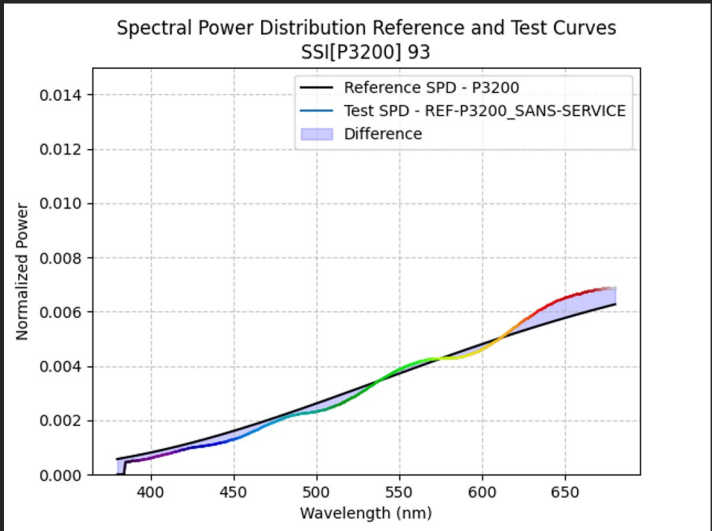
CCT 3012 Duv 0,001

CIE 1931 2° x 0.4372 y 0.4060

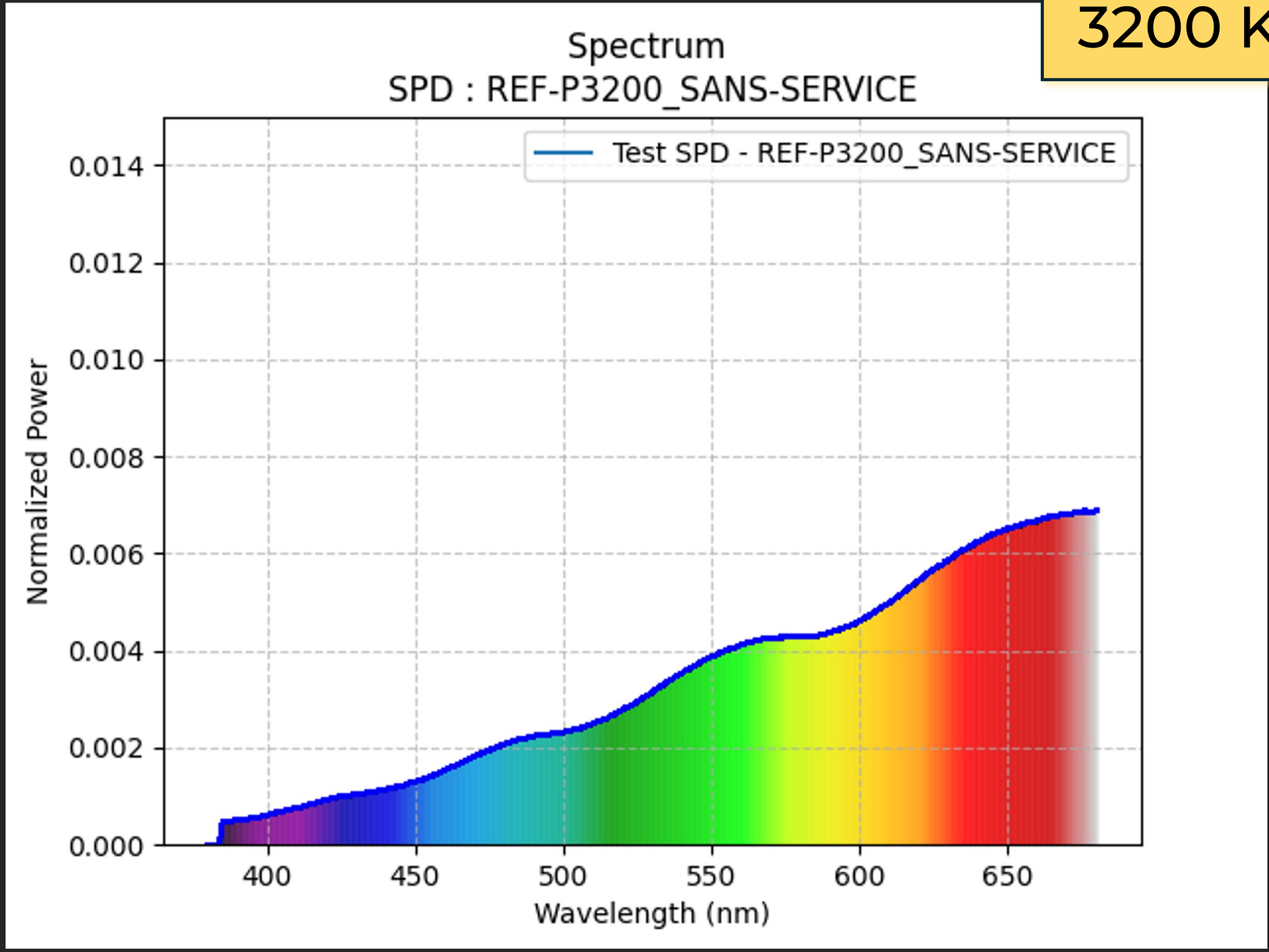
CRI Ra 97.51

IES TM-30-18 Rf 98 Rg 100

SSI[P3200] 93



3200 K



Images & données DEDOLIGHT DLED7N-C Images & Data

DEDOLIGHT

DLED7N-C

Power: 100% - CCT set on LED

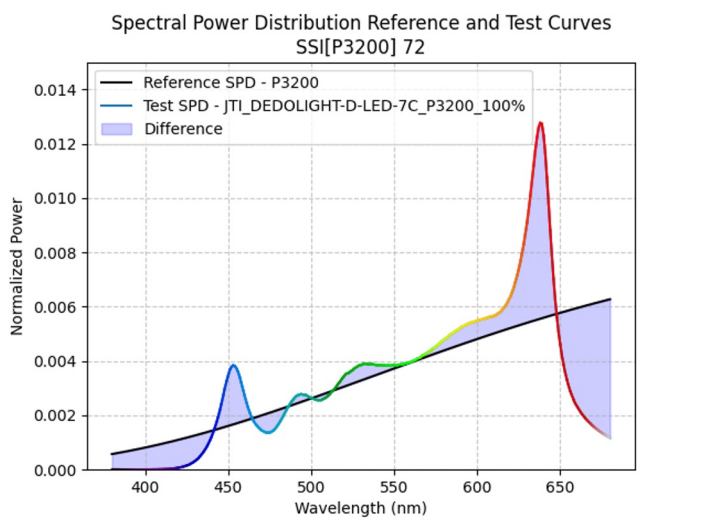
CCT 2915 Duv -0,005

CIE 1931 2° x 0.4362 y 0.3924

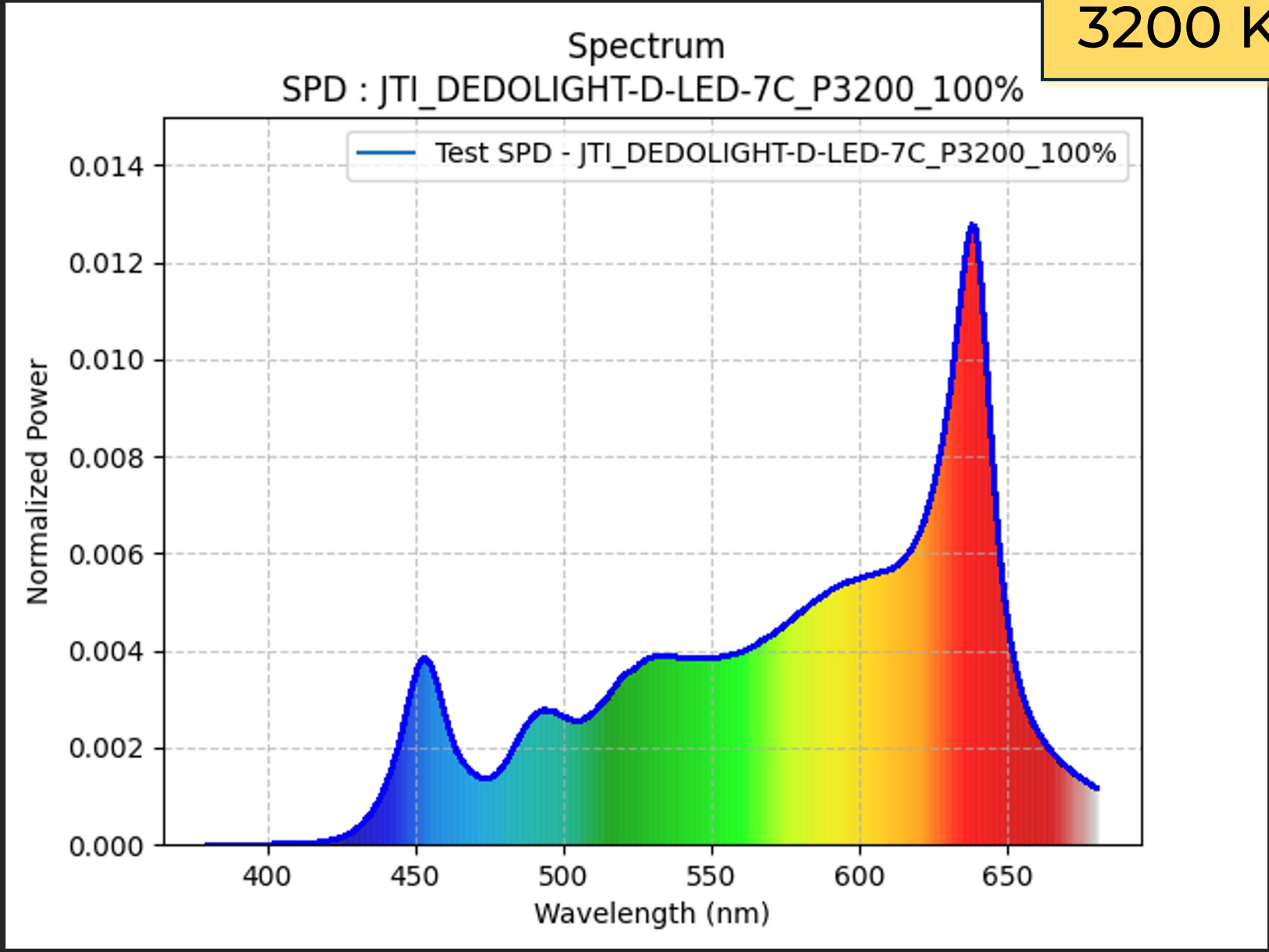
CRI Ra 94.82

IES TM-30-18 Rf 94 Rg 104

SSI[P3200] 72



3200 K



Images & données DEDOLIGHT DLED7N-C Images & Data

DEDOLIGHT

DLED7N-C

Power: 100% - CCT set on JETI

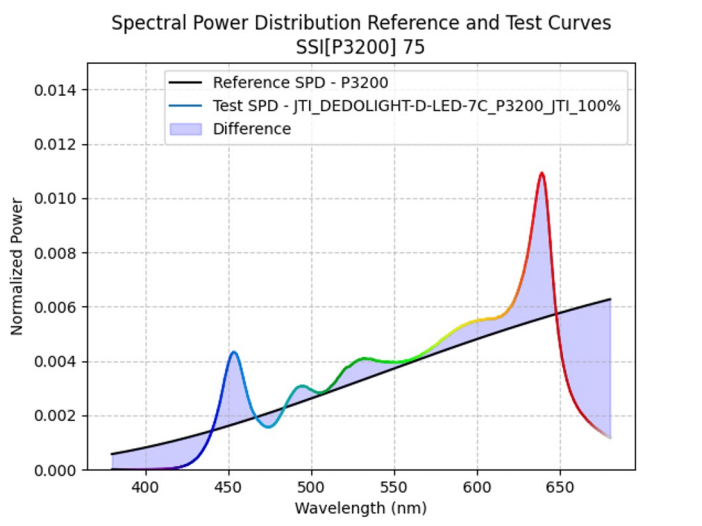
CCT 3196 Duv -0,004

CIE 1931 2° x 0.4192 y 0.3889

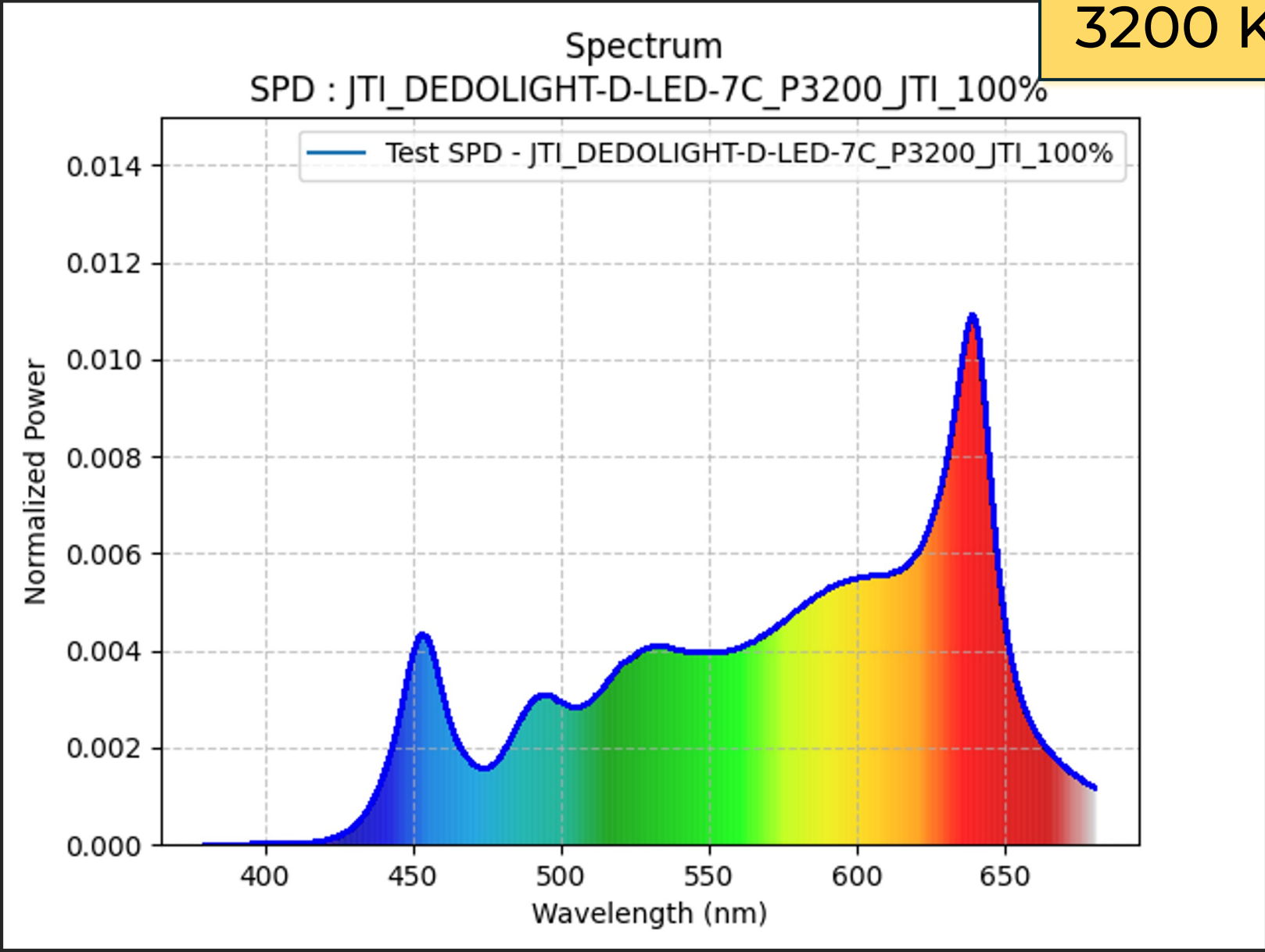
CRI Ra 95.93

IES TM-30-18 Rf 94 Rg 102

SSI[P3200] 75



3200 K



Images & données DEDOLIGHT DLED7N-C Images & Data

DEDOLIGHT

DLED7N-C

Power: 50% - CCT set on JETI

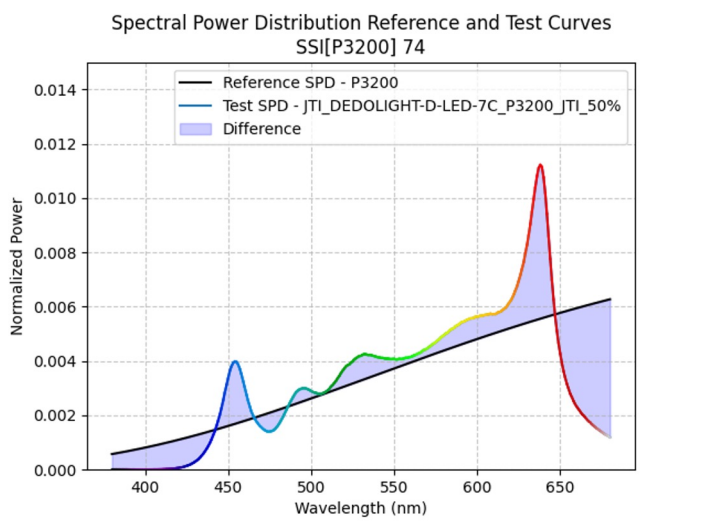
CCT 3135 Duv -0,001

CIE 1931 2° x 0.4266 y 0.3985

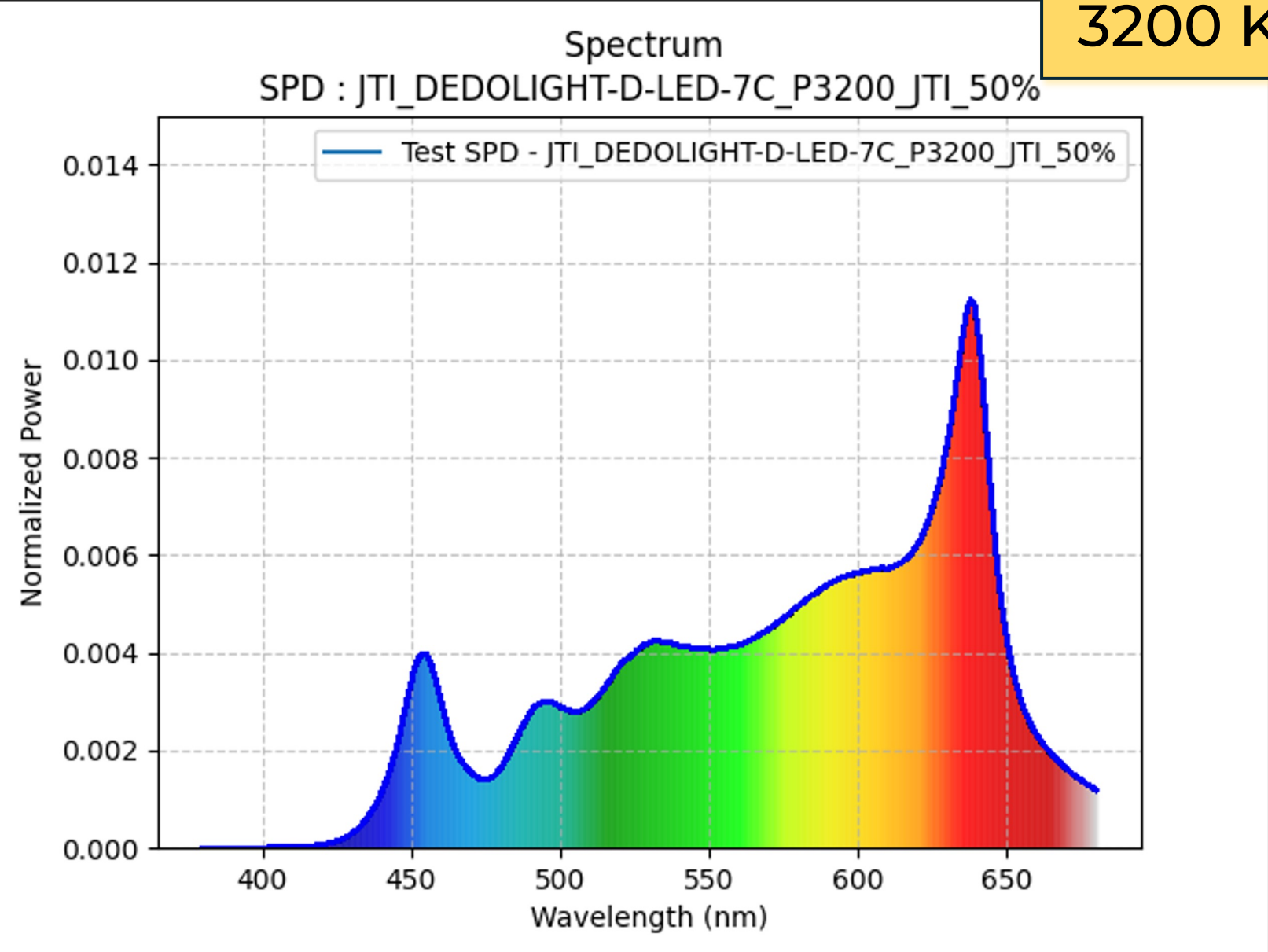
CRI Ra 96.78

IES TM-30-18 Rf 94 Rg 101

SSI[P3200] 74



3200 K



Images & données DEDOLIGHT DLED7N-C Images & Data

DEDOLIGHT

DLED7N-C

Power: 25% - CCT set on JETI

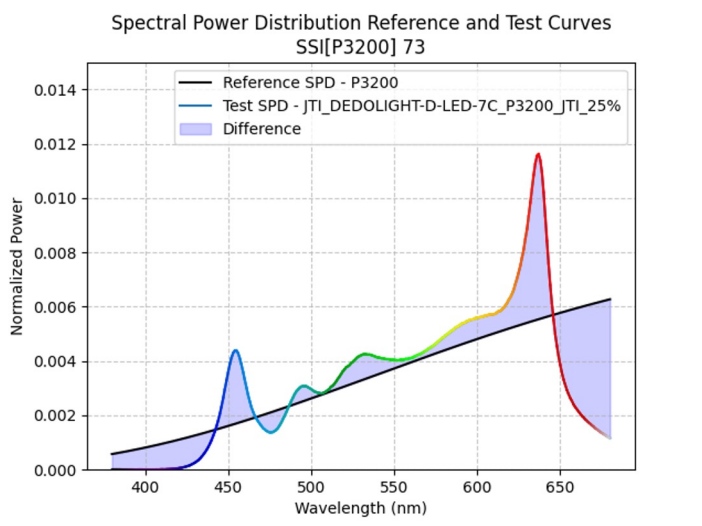
CCT 3131 Duv -0,002

CIE 1931 2° x 0.4251 y 0.3946

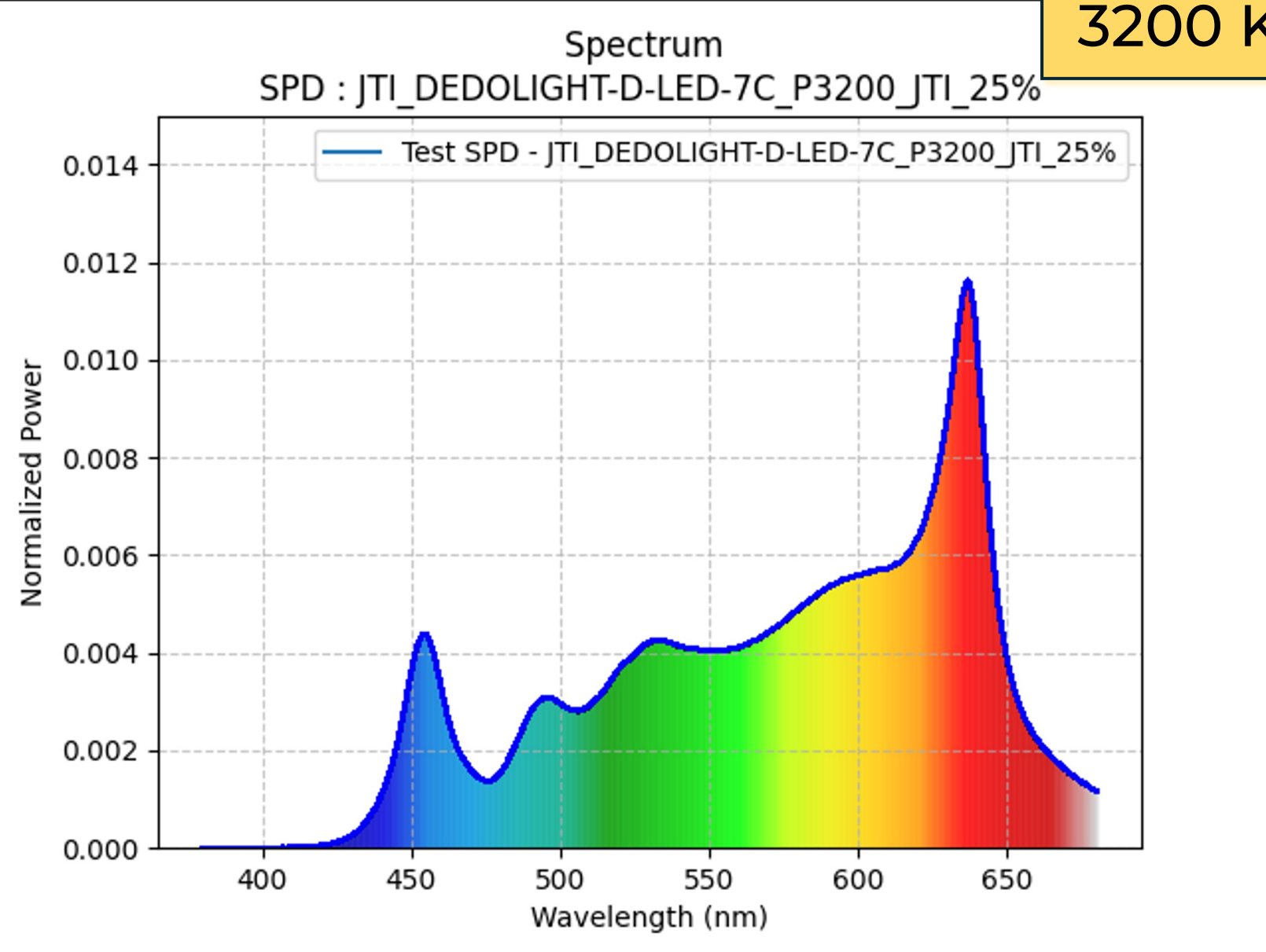
CRI Ra 95.97

IES TM-30-18 Rf 94 Rg 102

SSI[P3200] 73



3200 K



DLED7N-C

5600 K

JETI

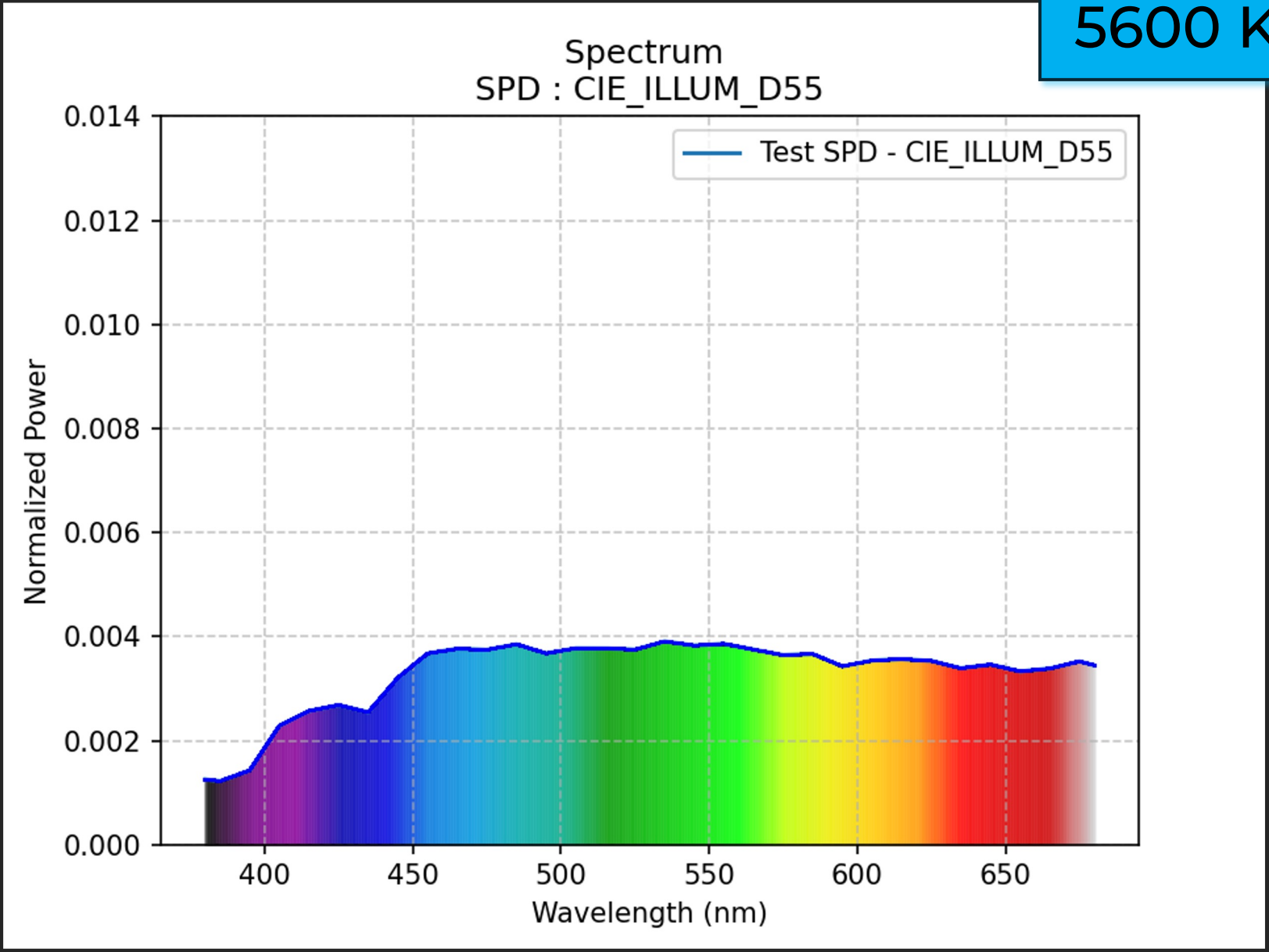
5600 K

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/

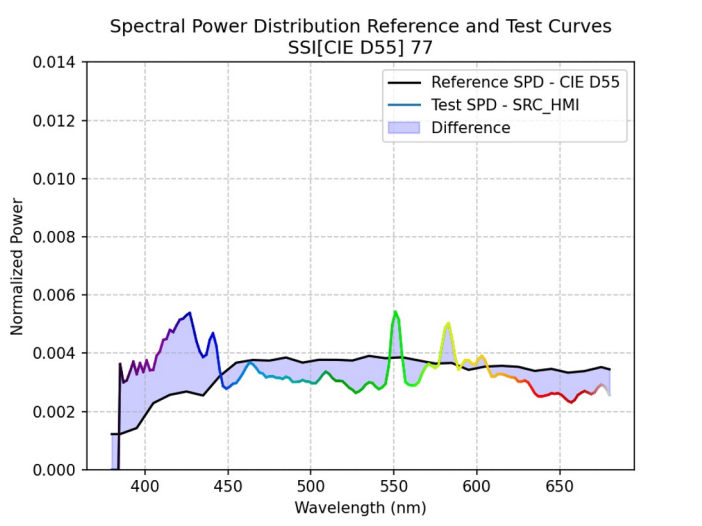
CCT 5605 Duv 0,000

CIE 1931 2° x 0.3301 y 0.3274

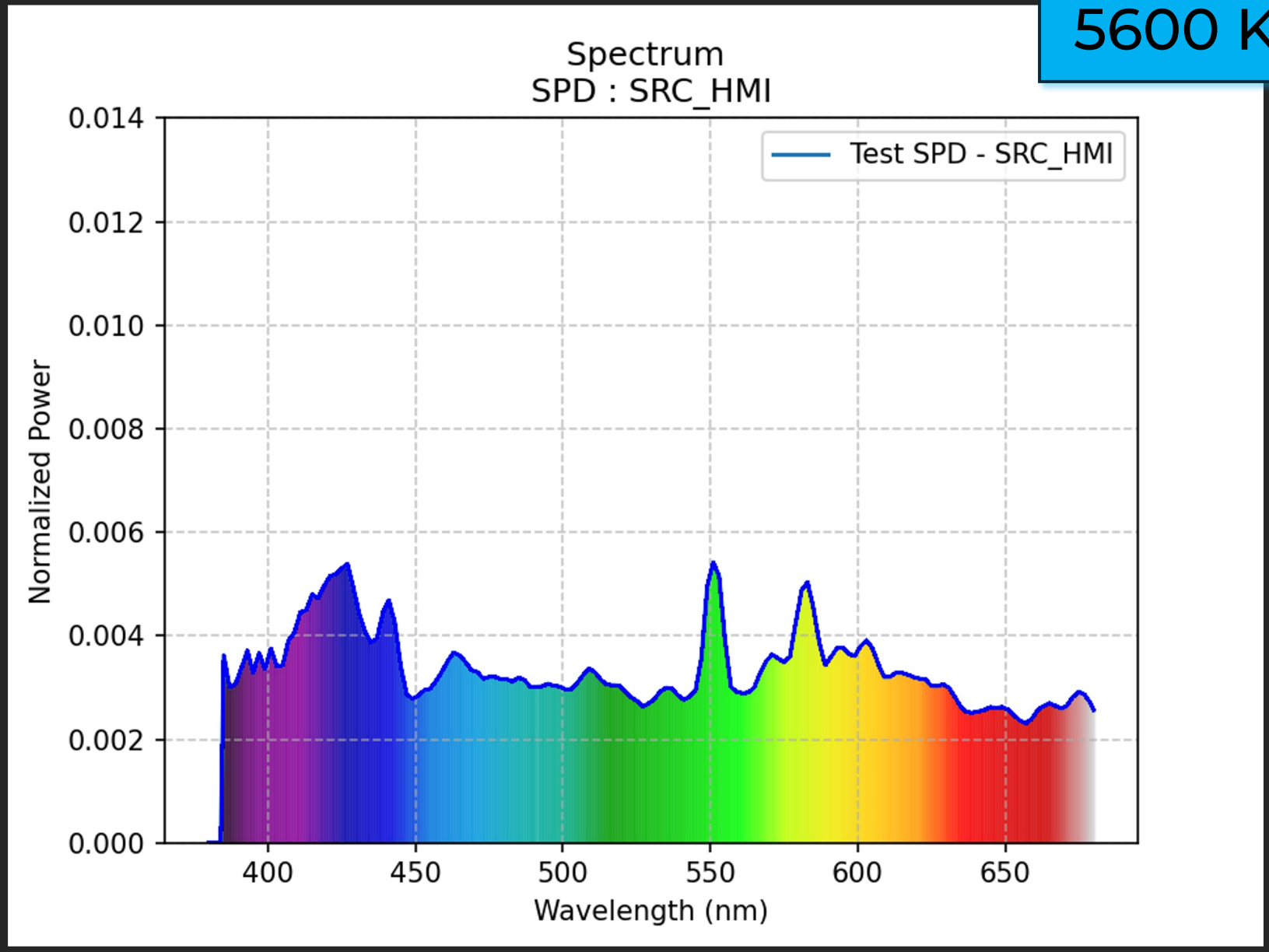
CRI Ra -

IES TM-30-18 Rf - Rg -

SSI[CIE D55] 77



5600 K



Images & données DEDOLIGHT DLED7N-C Images & Data

DEDOLIGHT

DLED7N-C

Power: 100% - CCT set on LED

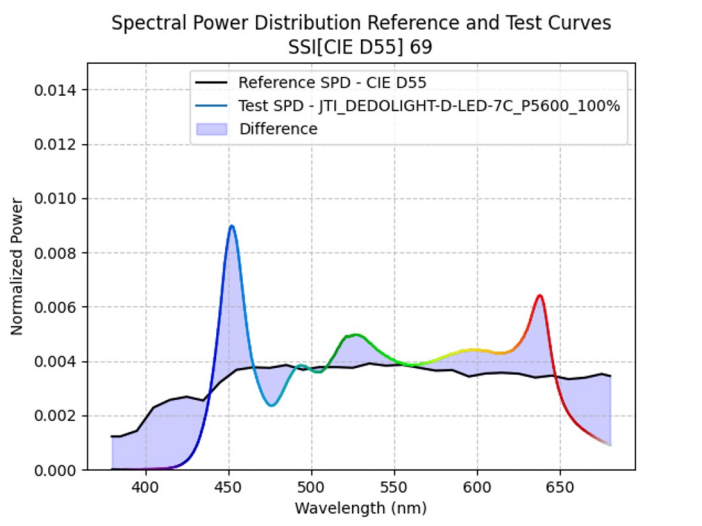
CCT 5358 Duv -0,004

CIE 1931 2° x 0.3356 y 0.3366

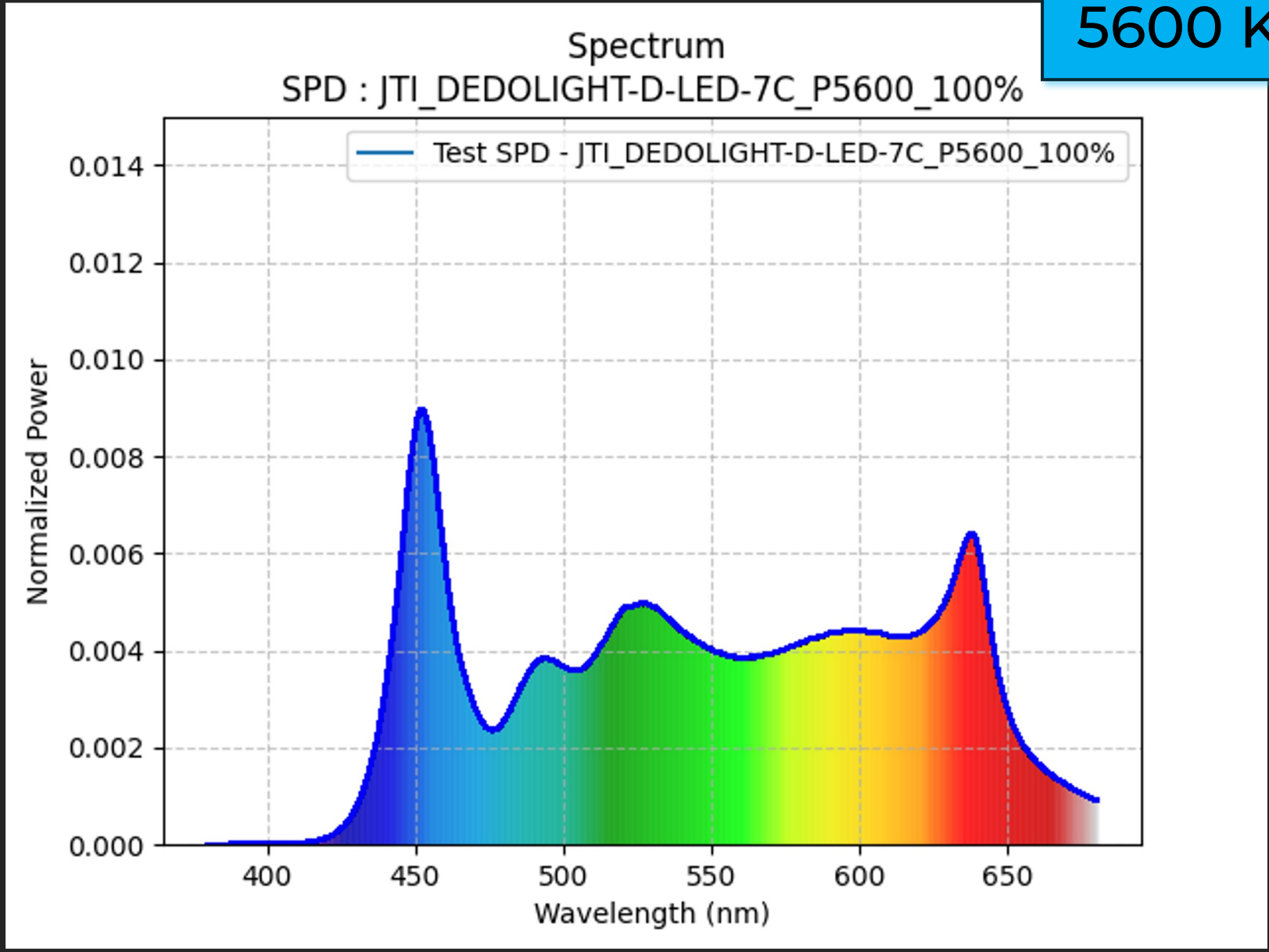
CRI Ra 95.15

IES TM-30-18 Rf 93 Rg 105

SSI[CIE D55] 69



5600 K



Images & données DEDOLIGHT DLED7N-C Images & Data

DEDOLIGHT

DLED7N-C

Power: 100% - CCT set on JETI

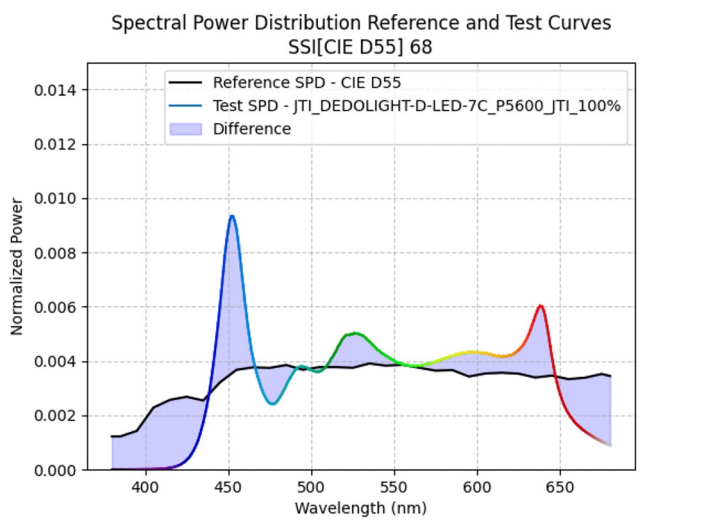
CCT 5637 Duv -0,004

CIE 1931 2° x 0.3295 y 0.3316

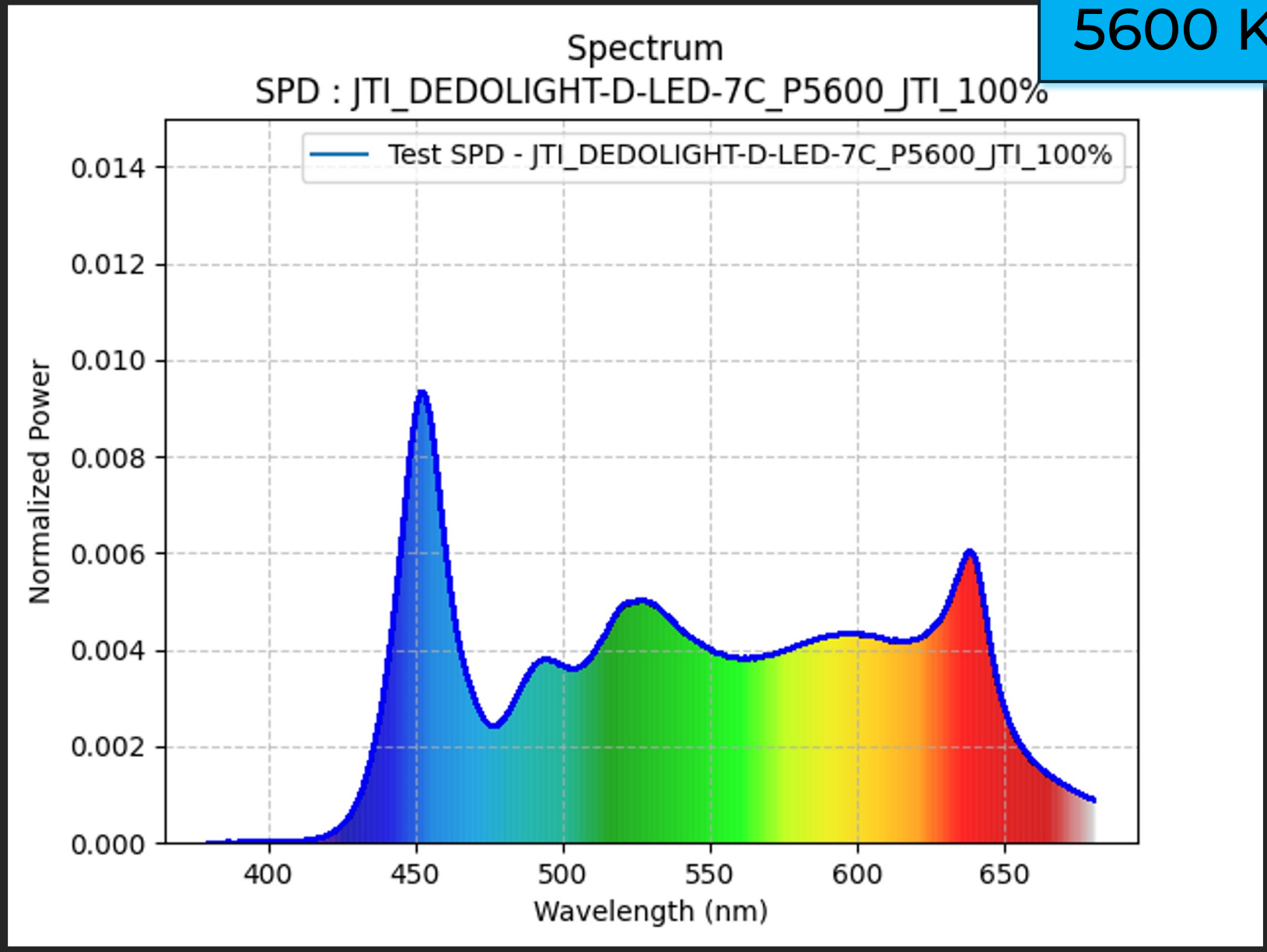
CRI Ra 95.05

IES TM-30-18 Rf 93 Rg 105

SSI[CIE D55] **68**



5600 K



Images & données DEDOLIGHT DLED7N-C Images & Data

DEDOLIGHT

DLED7N-C

Power: 50% - CCT set on JETI

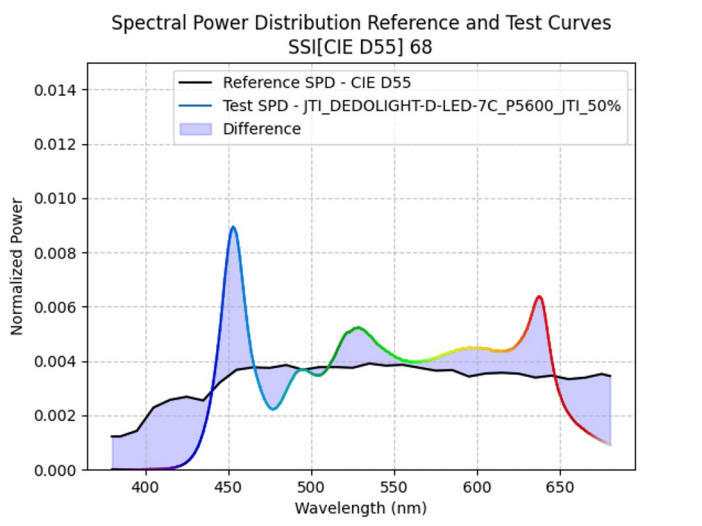
CCT 5258 Duv -0,001

CIE 1931 2° x 0.3381 y 0.3438

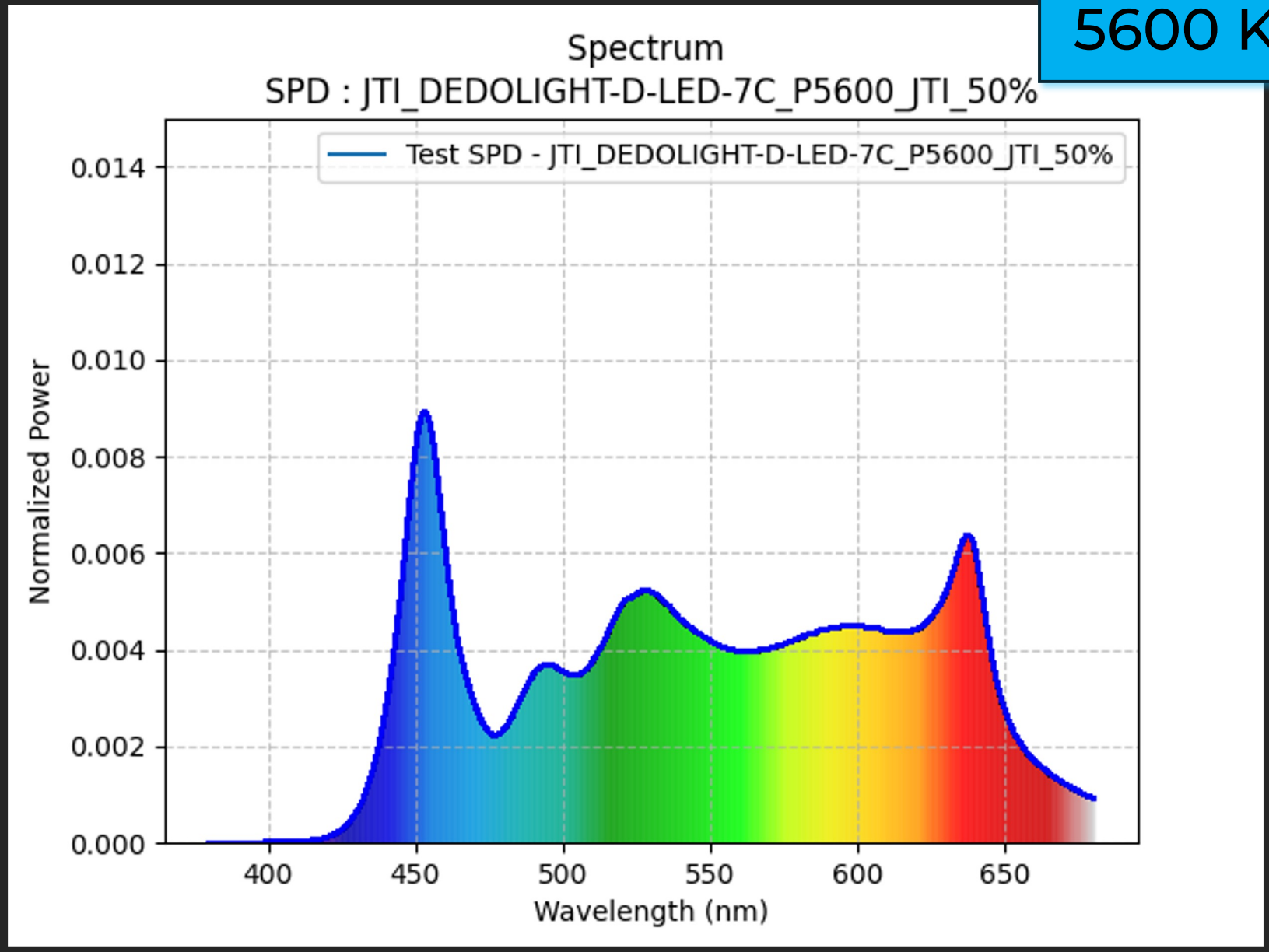
CRI Ra 95.67

IES TM-30-18 Rf 93 Rg 104

SSI[CIE D55] **68**



5600 K



Images & données DEDOLIGHT DLED7N-C Images & Data

DEDOLIGHT

DLED7N-C

Power: 25% - CCT set on JETI

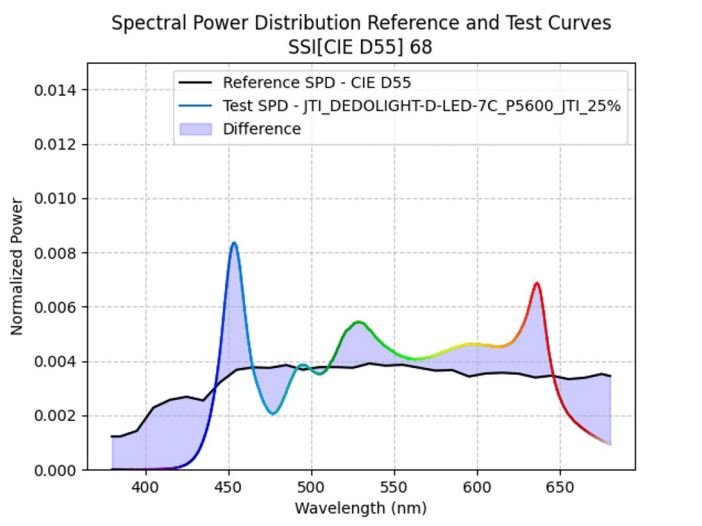
CCT 4965 Duv 0,002

CIE 1931 2° x 0.3466 y 0.3574

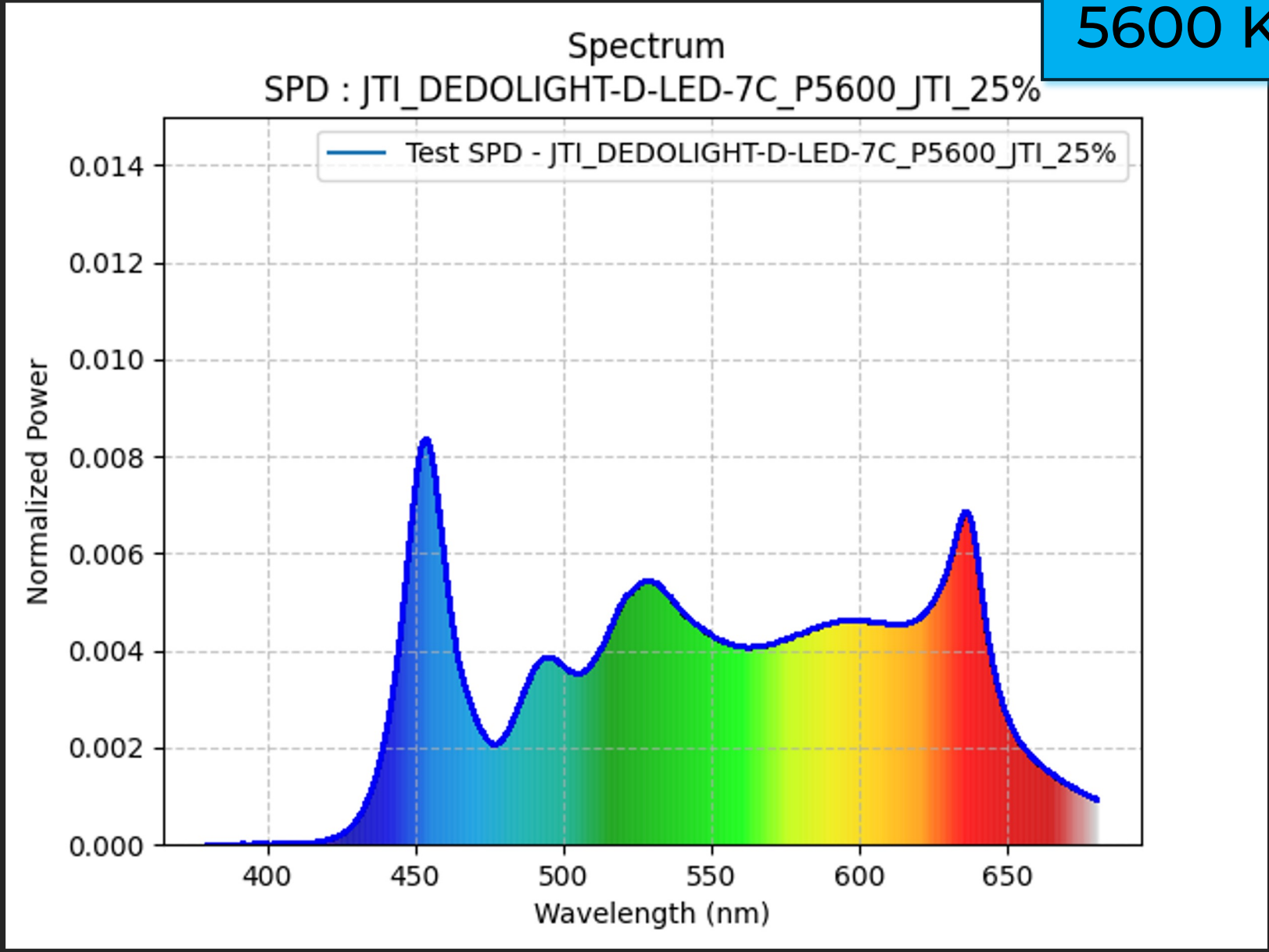
CRI Ra 96.65

IES TM-30-18 Rf 94 Rg 102

SSI[CIE D55] 68



5600 K



DLED7N-C

Images, Spectra

& SSI

JETI

Images & données DEDOLIGHT DLED7N-C Images & Data

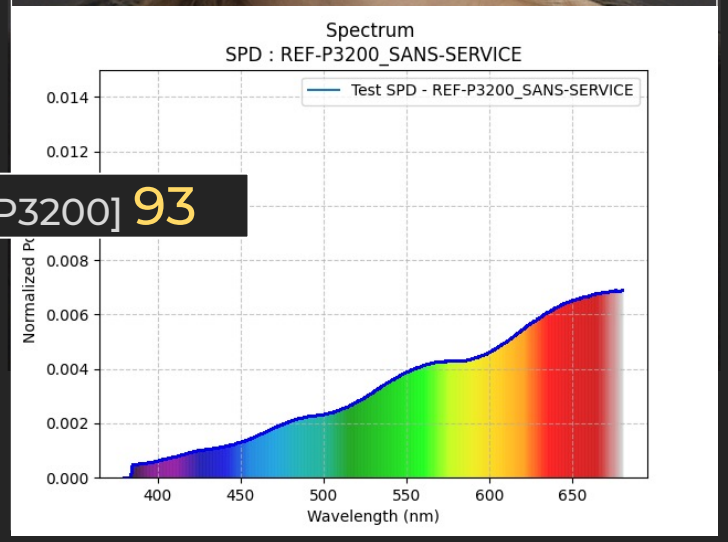
TUNGSTEN REF.

ARRI ALEXA 35

GRADED

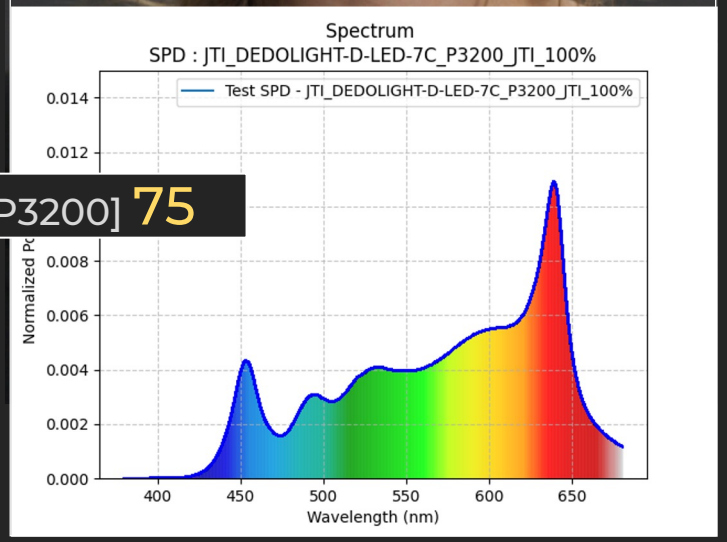
DLED7N-C

Images & données DEDOLIGHT DLED7N-C Images & Data



SSI[P3200] 93

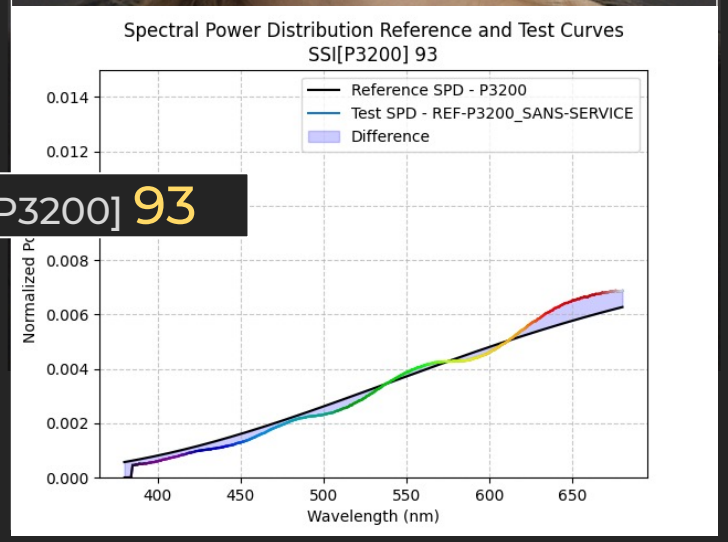
TUNGSTEN REF.



SSI[P3200] 75

DLED7N-C

Images & données DEDOLIGHT DLED7N-C Images & Data



SSI[P3200] 93

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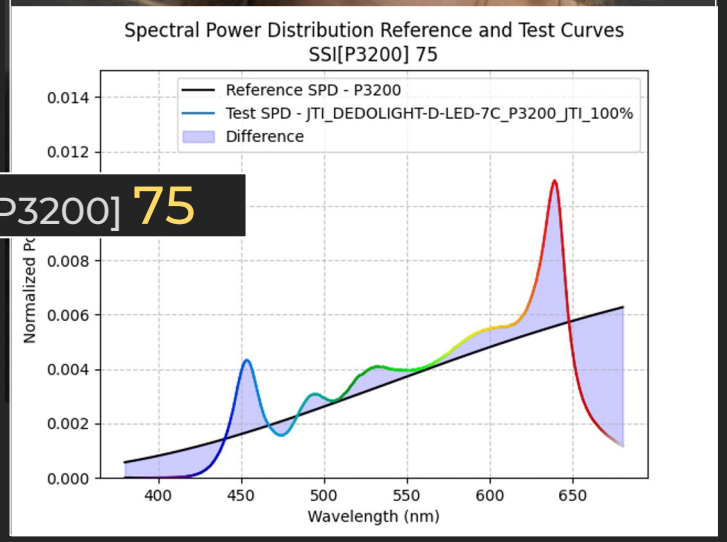


SSI[P3200] 75

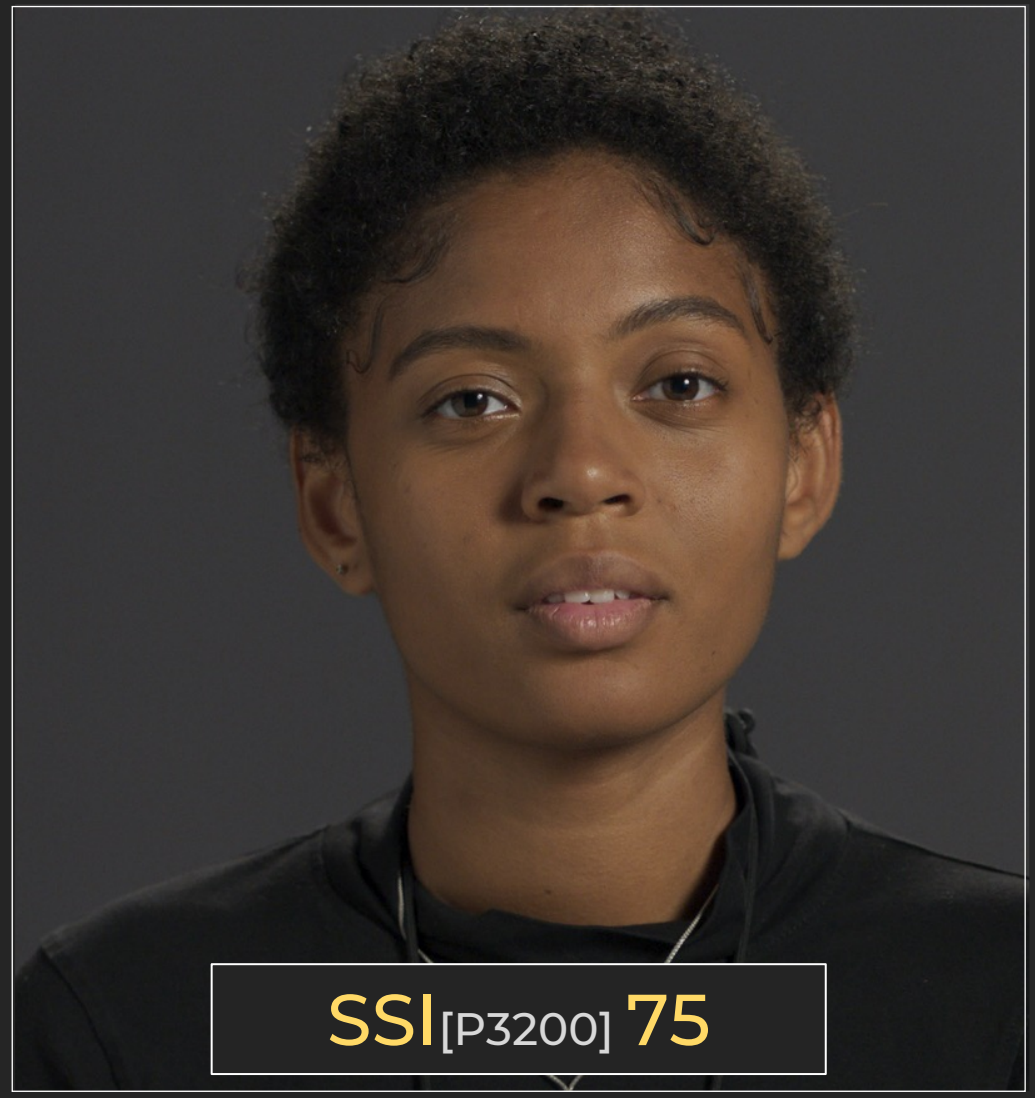
DLED7N-C

Images & données DEDOLIGHT DLED7N-C Images & Data

TUNGSTEN REF.

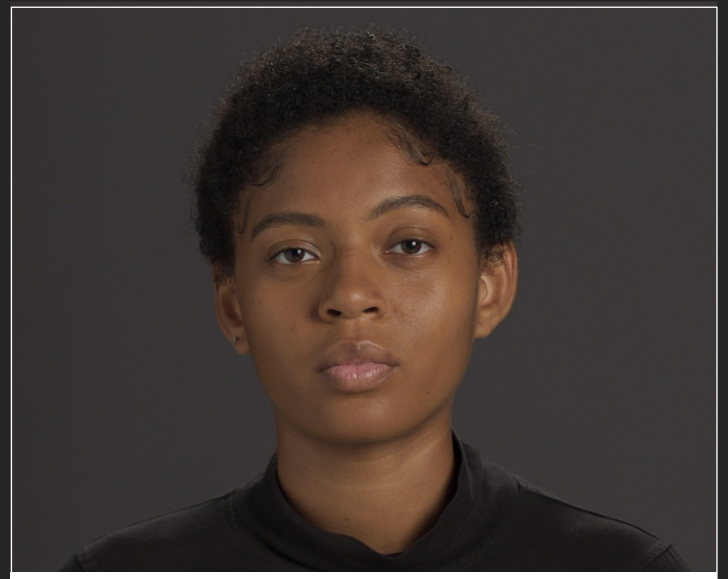
ARRI ALEXA 35

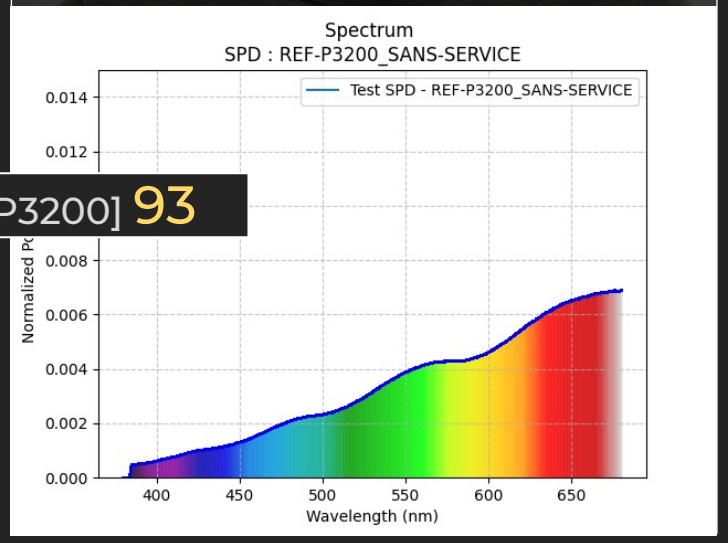
GRADED



DLED7N-C

Images & données DEDOLIGHT DLED7N-C Images & Data





SSI[P3200] 93

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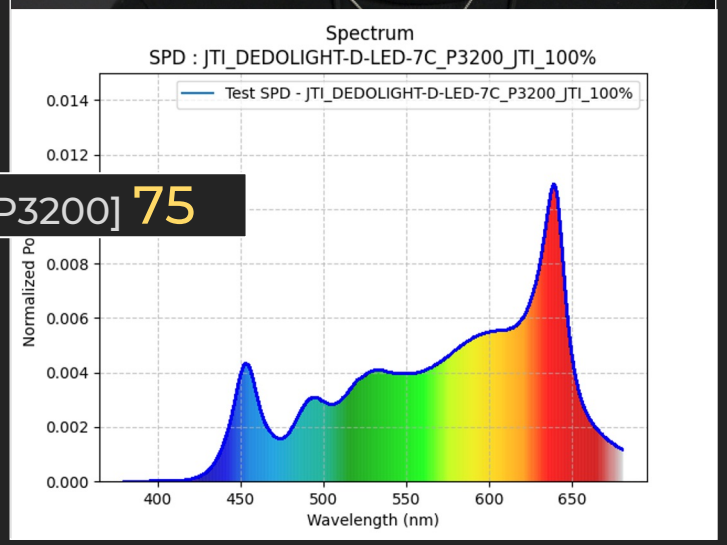
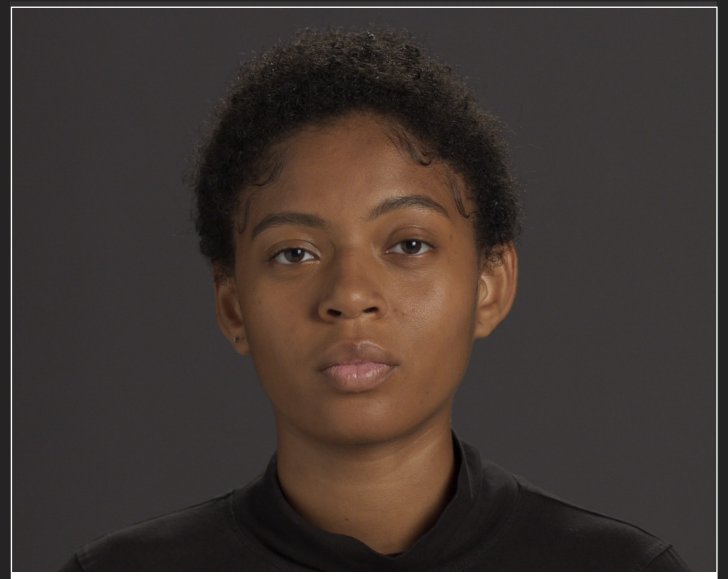
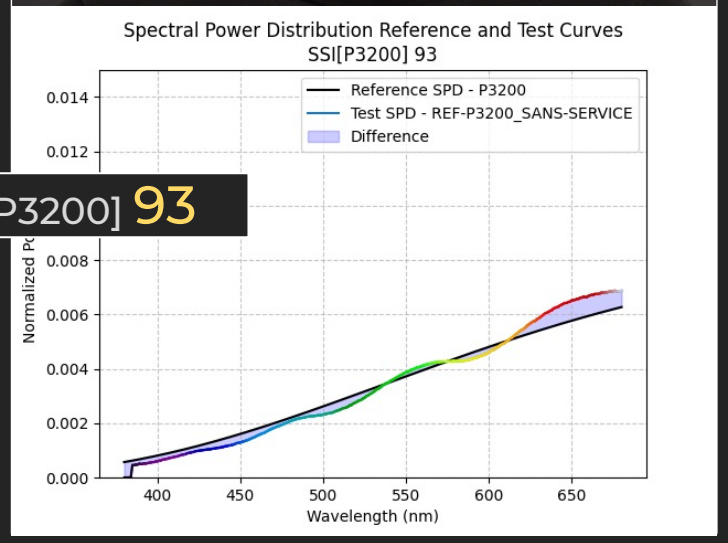


SSI[P3200] 75

DLED7N-C

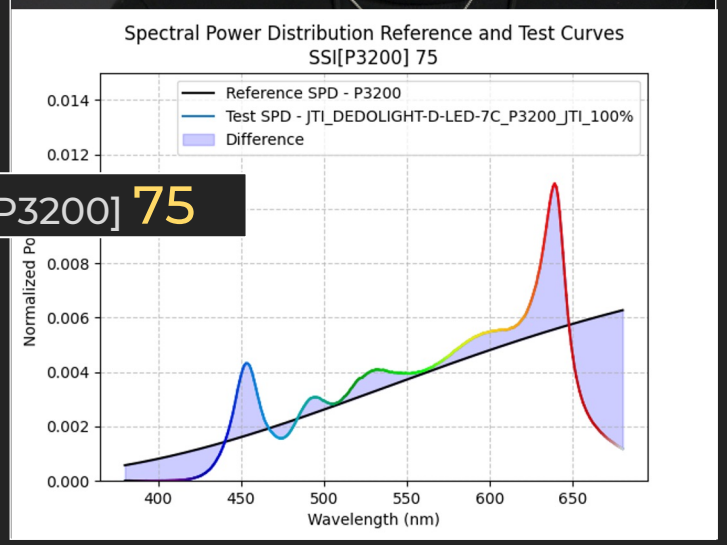
Images & données DEDOLIGHT DLED7N-C Images & Data





SSI[P3200] 93

TUNGSTEN REF.



SSI[P3200] 75

DLED7N-C

DLED7N-C

& 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

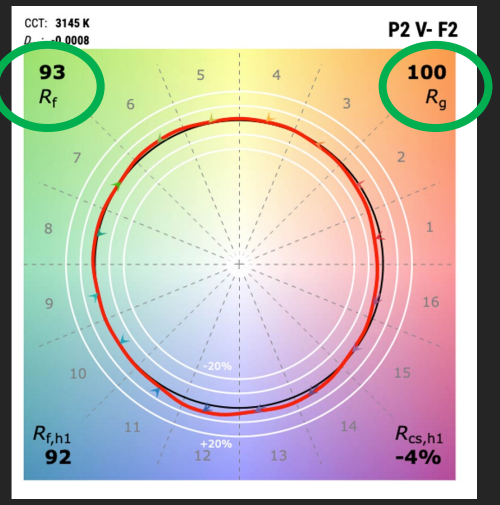
All the data in this section dedicated to the TM-30-20 has been calculated using JETI.

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.

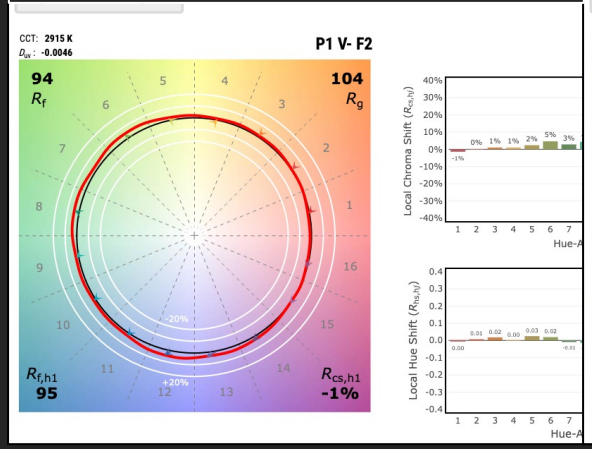
Toutes les mesures sont données en 3200 K et en 5600K

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

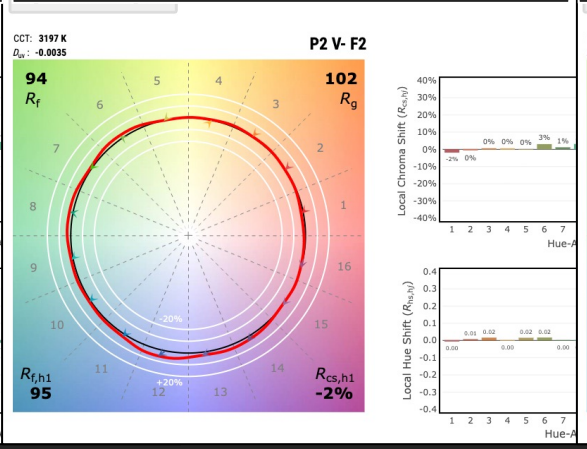
- graphs of the lighting fixture set at 100%, 50% and 25% power using JETI
- graphs of the lighting fixture set to 100% of its power thanks to the indications of the lighting fixture.

All measurements are provided in 3200K and 5600K

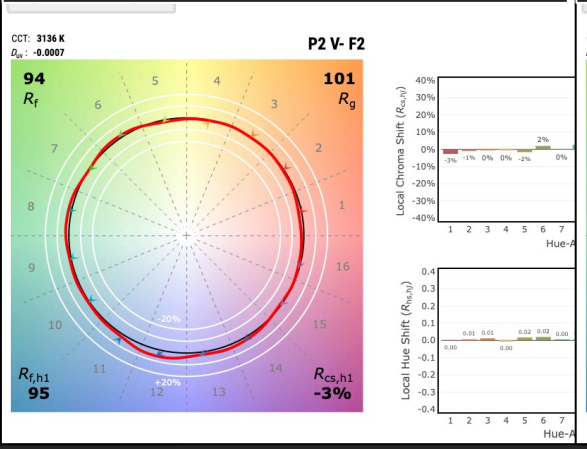
100 % indicated by fixture



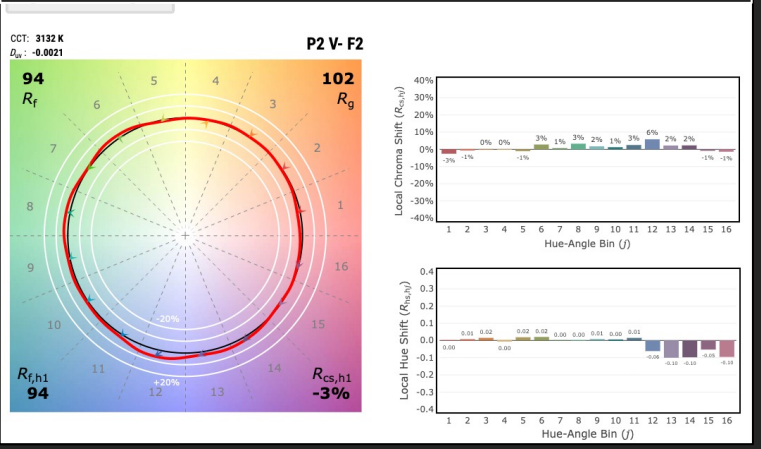
100 % indicated by JETI



50 % indicated by JETI



25 % indicated by JETI



3200 K

DLED7N-C TM-30-20

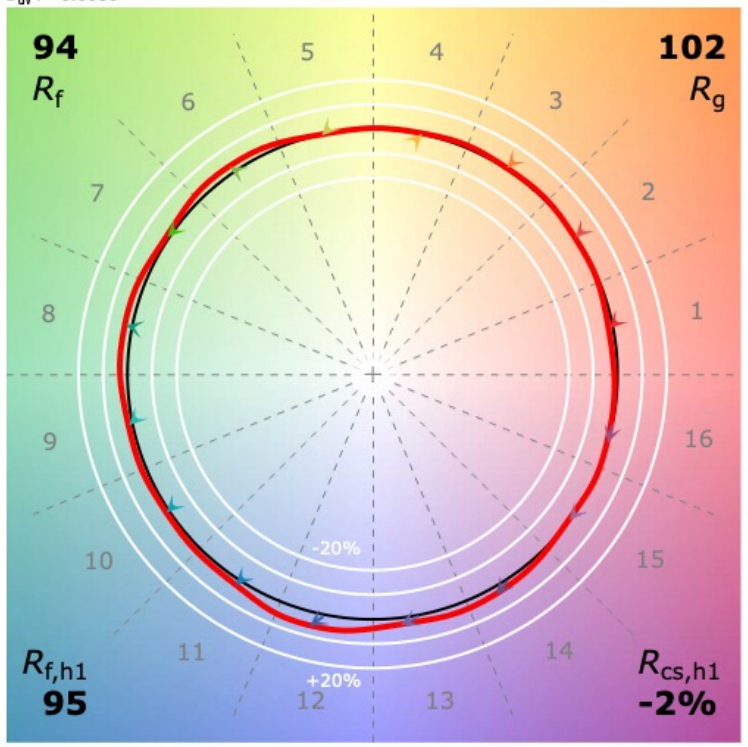
ANSI/IES TM-30-20 Color Rendition Report

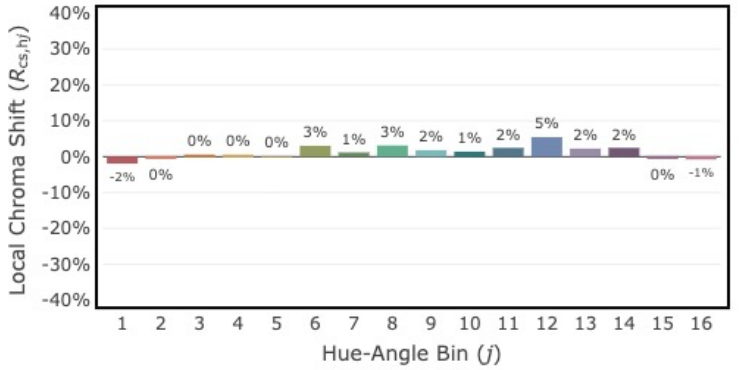
Unique Identifier:

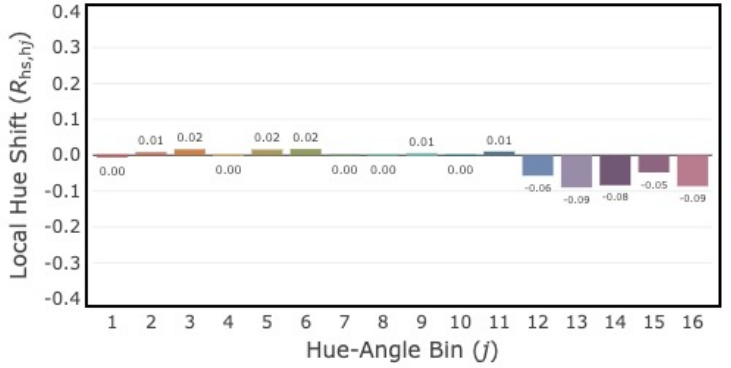
JTI_DEDOLIGHT-D-LED-7C_P3200

CCT: **3197 K**
D_{uv} : **-0.0035**

P2 V- F2



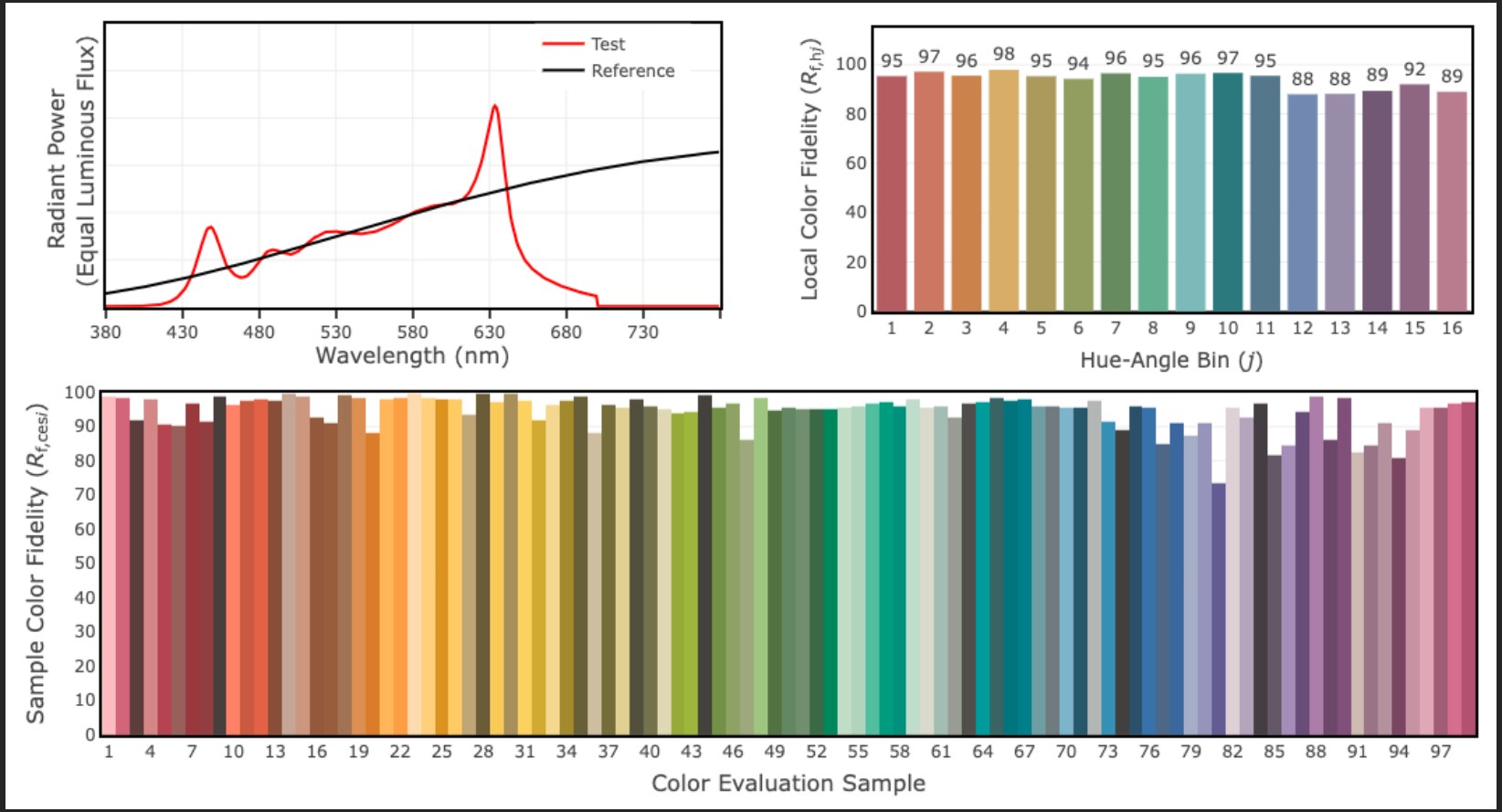




JETI

3200 K

DLED7N-C TM-30-20



JETI

3200 K

DLED7N-C

Comparison chart: SSI vs TM30-20 vs CRI

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_DEDOLIGHT-D-LED-7C_P3200_**LED_100%**	72	94	104	94,82	93,96
JTI_DEDOLIGHT-D-LED-7C_P3200_**JTI_100%**	75	94	102	95,93	95
JTI_DEDOLIGHT-D-LED-7C_P3200_**JTI_50%**	74	94	101	96,78	95,48
JTI_DEDOLIGHT-D-LED-7C_P3200_**JTI_25%**	73	94	102	95,97	94,7

JETI

DLED7N-C TM-30-20

5600 K

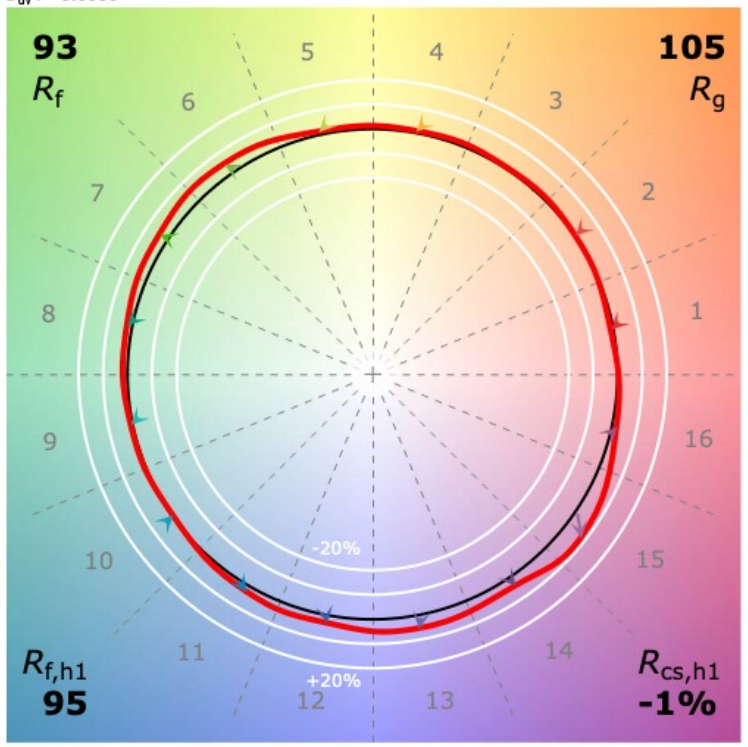
ANSI/IES TM-30-20 Color Rendition Report

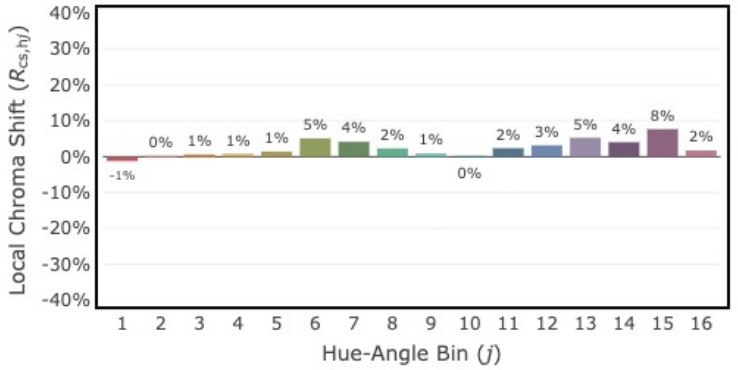
Unique Identifier:

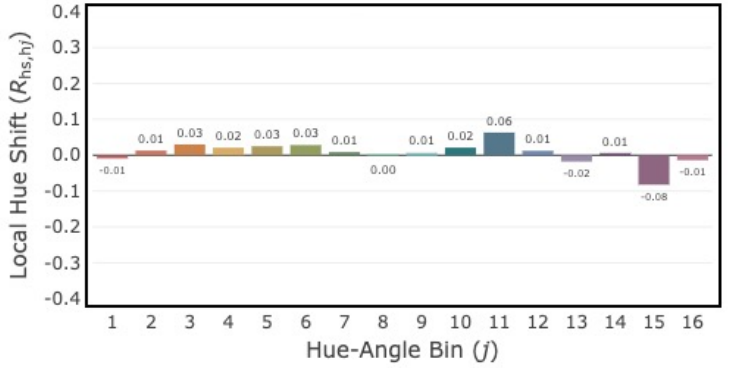
JTI_DEDOLIGHT-D-LED-7C_P5600

CCT: **5638 K**
D_{uv} : **-0.0035**

P1 V- F2



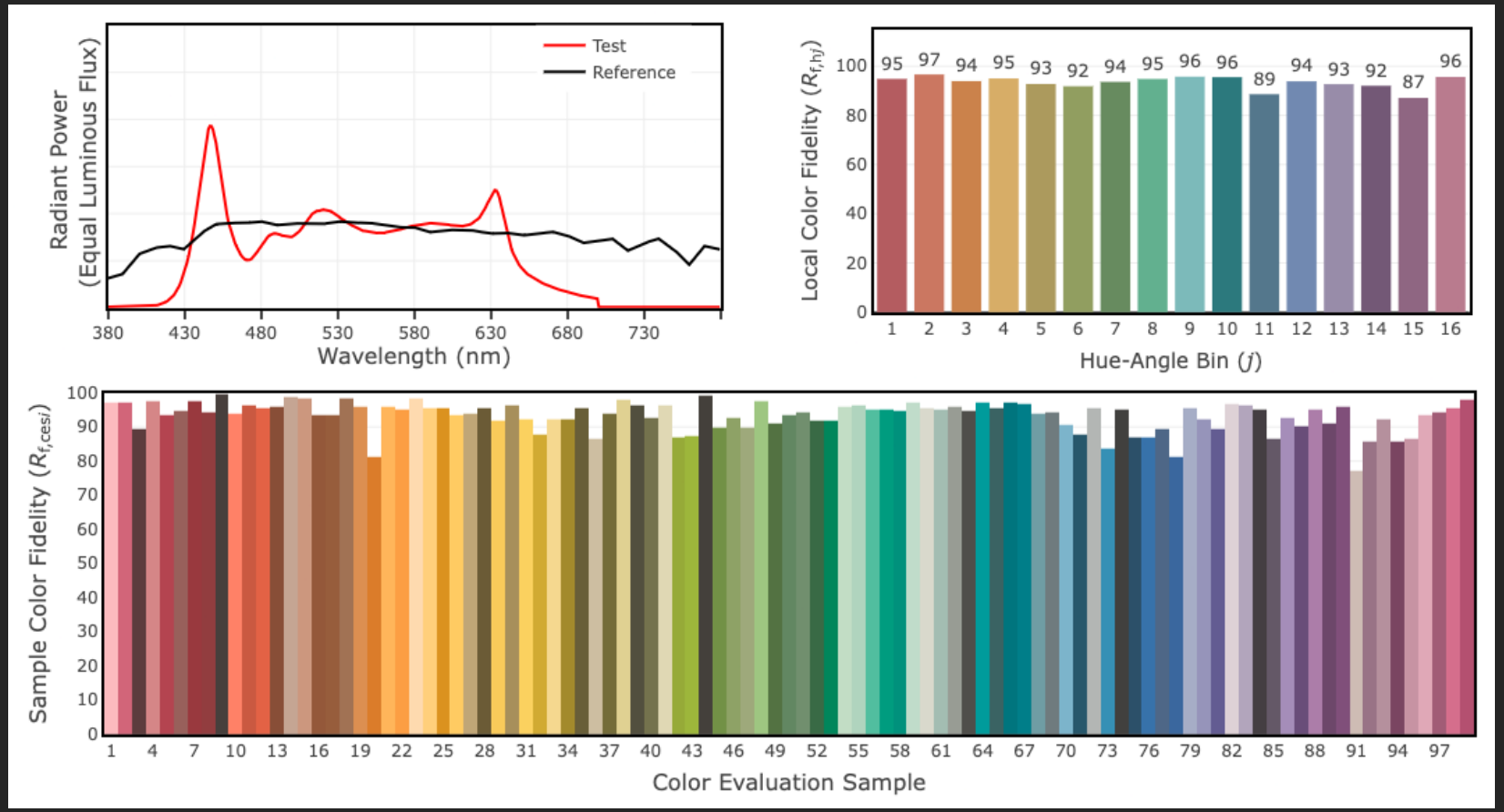




JETI

DLED7N-C TM-30-20

5600 K



JETI

5600 K

DLED7N-C

Comparison chart: SSI vs TM30-20 vs CRI

JETI 1511 HiRes					
SPD TEST	SSI	TM30 Rf	TM30 Rg	CRI Ra	CRI Re
JTI_DEDOLIGHT-D-LED-7C_P5600_**LED_100%**	69	93	105	95,15	94,21
JTI_DEDOLIGHT-D-LED-7C_P5600_**JTI_100%**	68	93	105	95,05	94,01
JTI_DEDOLIGHT-D-LED-7C_P5600_**JTI_50%**	68	93	104	95,67	93,68
JTI_DEDOLIGHT-D-LED-7C_P5600_**JTI_25%**	68	94	102	96,65	93,49

JETI

Données constructeur

Manufacturer's data

DEDOLIGHT

Images & données DEDOLIGHT DLED7N-C Images & Data

Name of the tested product Company	DLED7N C				
Type of light: Fresnel, panel or others	Dedolight Lens				
Full Color or Bi-Color	RGBACL		IP	20	
Dimensions (inches/cm)	W 150 x L 100 x H 210 mm		Weight (Lbs/kg)	1,300 kg	
Built-in ballast	~~Yes~~	No	Ballast weight	580 g	
Mandatory optical accessory	~~Yes~~	No	Optional optical accessories (excludes lightbox and louvers)	Yes	~~No~~
If yes to optional, which ones?	Paralelle Beam attachment, Projection attachment, Wide angle, Softbox, scrim, 3 sort of barndoor,				
Type of circuit board material					
Type of housing construction (metal, plastic, others)	Aluminium				
Website	https://www.zebra-groupe.com				
Person in charge/Position	Jean-Charles Pasquier / Ligthing sale manager				

Electrical power consumption					
Maximum internal temperature		°C		F	
AC/DC - Battery voltage	90-250 V	AC only	DC only Battery - voltage	12 – 18 V	
With AC, draws	1,33 Amps	With DC, draws	6,9 Amps/V		

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)		Beam angles:	Spot	15 °	Mid	°	Flood	50°
Lux @ 1 meter (3.3 ft.) **Optic Spot**	8 520@ 3200K 6 983@ 5600K	Lux @ 3 meters (10 ft.) **Optic Spot**	1 119 @ 3200K 1 077@ 5600K	Lux @ 5 meters (15 ft.) **Optic Spot**	@ 3200K @ 5600K			
Lux @ 1 meter (3.3 ft.) **Optic Mid**	@ 3200K @ 5600K	Lux @ 3 meters (10 ft.) **Optic Mid**	@ 3200K @ 5600K	Lux @ 5 meters (15 ft.) **Optic Mid**	@ 3200K @ 5600K			
Lux @ 1 meter (3.3 ft.) **Optic Flood**	2 862@ 3200K 2 743@ 5600K	Lux @ 3 meters (10 ft.) **Optic Flood**	289 @ 3200K 292 @ 5600K	Lux @ 5 meters (15 ft.) **Optic Flood**	@ 3200K @ 5600K			

Full Color (RGB - Large spectrum)			
Number of color diodes	6	Types	RGBACL
Color temperature range	1800 °K	-	20 000°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~~

Bi-Color				
Number of diodes		Types		
Color temperature between	K	and	K	

Color temperature preset	Yes	No
Green Magenta Control	Yes	No

Color index				
CRI	98			
TLCI	90			
TMA 30-18/20 - Rf	94	TMA 30-18/20 - Rg	103	
SSI [P3200]		SSI [CIE D55]		

Other specificities	

Operating temperatures	From - 20°C to +35°C						
Fan:	Yes	~~No~~	Switchable	Yes	~~No~~	Noise level in dB at 1 m	
If switchable, % of light output			If switched off, for how long				
High speed possibility	Yes	~~No~~	Maximum speed	50 000FPS			
Camera shutter possibility	Yes	~~No~~	Maximum angle	180°			

Operating positions	All	~~No: limitations:~~
Spigot diameter	16 Female 28mm male	

Memory of settings	Yes	No	Wireless DMX compatibility	Yes	~~No~~
			Built in Lumen radio protocol	Yes	~~No~~
Wired DMX compatibility	Yes	~~No~~	Maximum distance		
			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

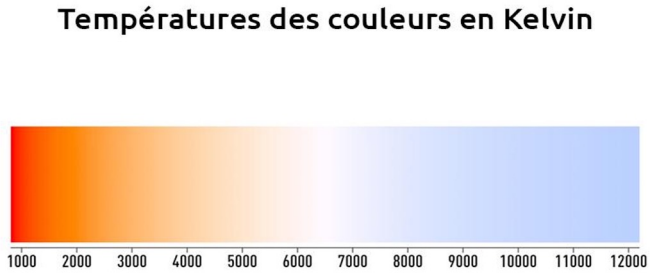
Environmental concern	
Warranty (in years)	1 year
For how long parts are available?	10 years
Average repair time	2 weeks
What do you know about recycling your products?	
Do customers send them back to you or do they take care of it themselves?	SEND BACK TO THE DISTRIBUTOR
Country of manufacturing	GERMANY

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

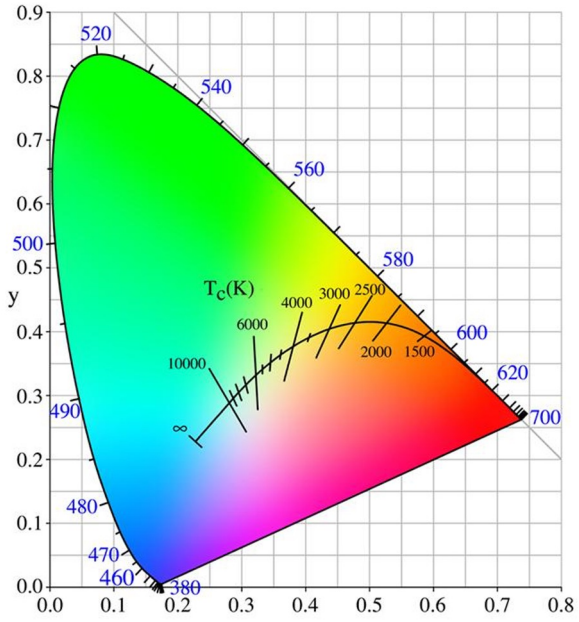


La température de couleur est la valeur cible idéale que nous cherchons à atteindre pour faire les mesures (3200 ou 5600). Celle-ci est basée sur la CCT et son unité est donc le Kelvin (K). La valeur peut être donnée directement par le projecteur ou réglée et ajustée avec les mesures prisent par le spectroradiomètre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

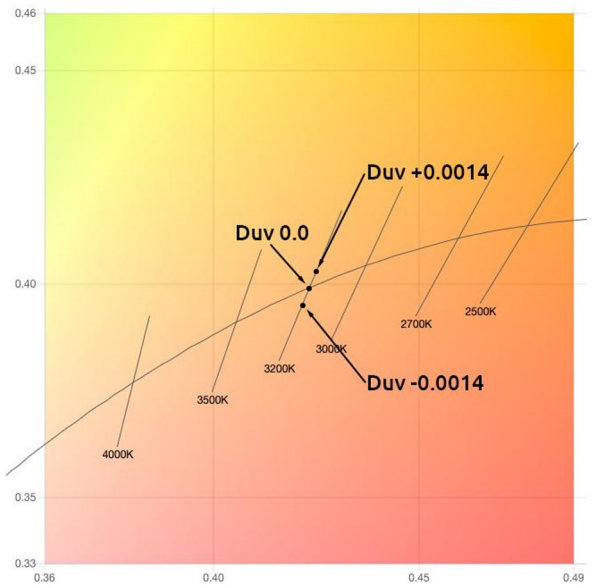


La CCT ou température de couleur corrélée, est la température précise d'un radiateur de Planck (corps noir) ayant la chromaticité la plus proche possible de celle associée à une distribution spectrale donnée. La CCT est donc calculée à partir de la distribution spectrale (SPD) de la source lumineuse ; 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

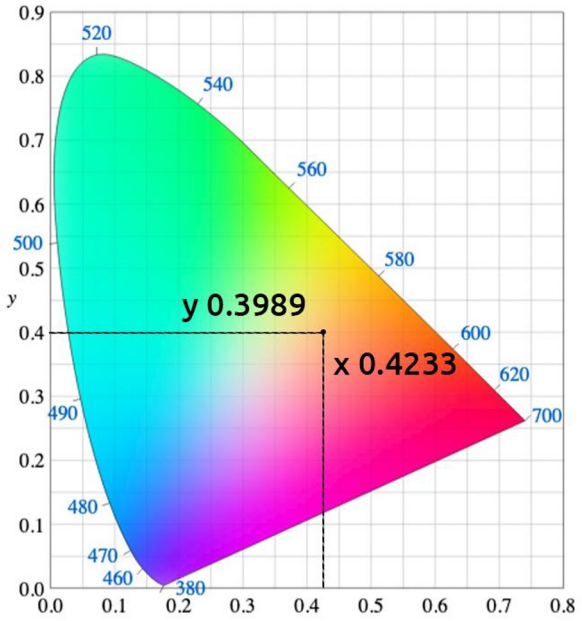


Le Duv ou Delta u,v est utilisé pour décrire la distance entre les coordonnées chromatiques de la source de lumière et le radiateur de Planck, appelé également lieu du corps noir. Une valeur négative indique que la source est en dessous de la courbe du corps noir (dominante magenta ou rose), une valeur 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
Directrice de la photographie, UCO & Représentante du département image de la CST	Françoise Noyon	Cinematographer, UCO & Representative of the CST image department
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Clips

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