

Corp de iluminat stradal și rezidențial

# CRIOTEK 01 LED

**≥170 LM/W**



## Despre produs

Familia de corpuri de iluminat stradal performant CRIOTEK LED reprezintă soluția provocărilor cu care se confruntă autoritățile municipale - să asigure securitatea oamenilor economisind în același timp energie și să diminueze costurile de întreținere.

Corpul de iluminat stradal performant CRIOTEK LED combină un design distinct cu iluminatul de calitate superioară, integrându-se perfect în arhitectura urbană.

Este o familie de corpuri de iluminat moderne pentru iluminatul stradal, cu surse de lumină de ultimă generație cu durată de viață prelungită, fiind echipat cu module LED de înaltă performanță.

Este eficient din punct de vedere energetic și are un impact pozitiv asupra protecției mediului.

Sistemul optic performant, cu o distribuție uniformă permite înlocuirea soluțiilor HID fără a compromite distanțele, înălțimea de montare sau calitatea luminii. Nu necesită intervenții pentru înlocuirea surselor de lumină iar carcasa metalică asigură reciclarea.

Montarea pe braț și variantele dimensionale permit o amplasare flexibilă



|          |      |      |  |               |         |
|----------|------|------|--|---------------|---------|
| EN 60598 | RoHS | IP66 |  | -40°C ÷ +55°C | 18W LED |
|----------|------|------|--|---------------|---------|

## Domeniu de utilizare

Iluminatul stradal pentru drumuri principale, locale, secundare, cu clasele de iluminare ME1, ME2, ME3, ME4, ME5, ME6, S1÷S6, conform SR EN 13201. Iluminatul rezidențial pentru alei, trotuare, parcuri, treceri de pietoni. Parcări, gări, autogări, spații publice largi, etc.



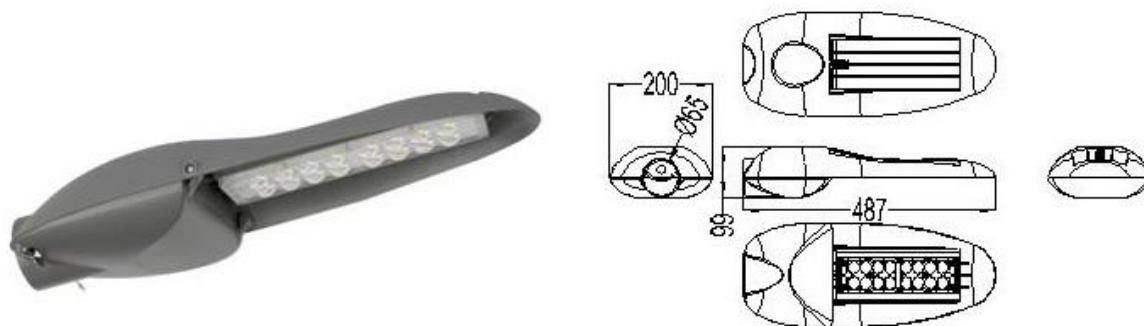
## Sursa de lumină utilizată

- Modul LED de mare putere ,cu sistem optic specializat pentru iluminat stradal și rezidențial, cu temperatura de culoare 4000K CRI≥80, cu o durată lungă de viață, la  $T_{sp} 85^{\circ}$  și temperatura ambientală  $t_a=25^{\circ}C$ :

|               |
|---------------|
| B10           |
| L90           |
| > 100.000 ore |

## Avantaje

Un corp de iluminat modern, cu surse de lumină tip LED. Consum redus de energie. Durată de viață prelungită. Prietenos cu mediul înconjurător. Ideal pentru înlocuirea corpurilor de iluminat stradale cu lămpi fluorescente compacte, cu sodiu, cu halogenuri metalice. Costuri reduse de întreținere. Nu sunt necesare intervenții pentru înlocuirea în exploatare a surselor de lumină.



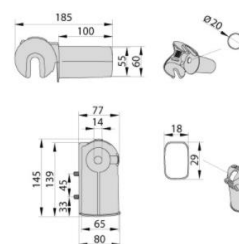
## ACCESORII LA CERERE



BRIDA MONTARE

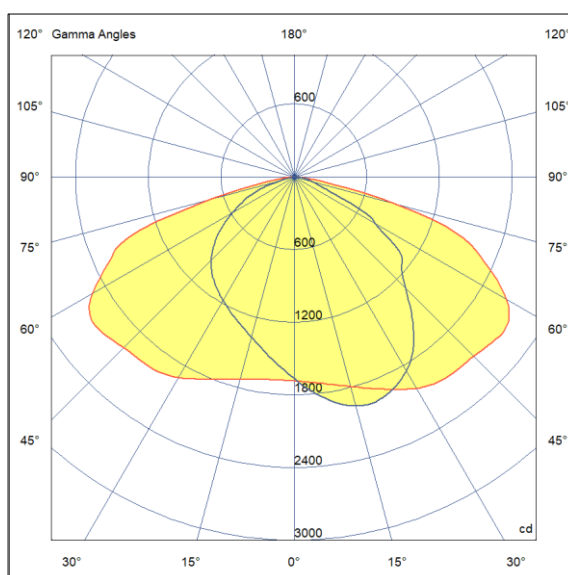


Accesoriu optional – ȘTUȚ CU INDEXARE 0-90°  
M000024008

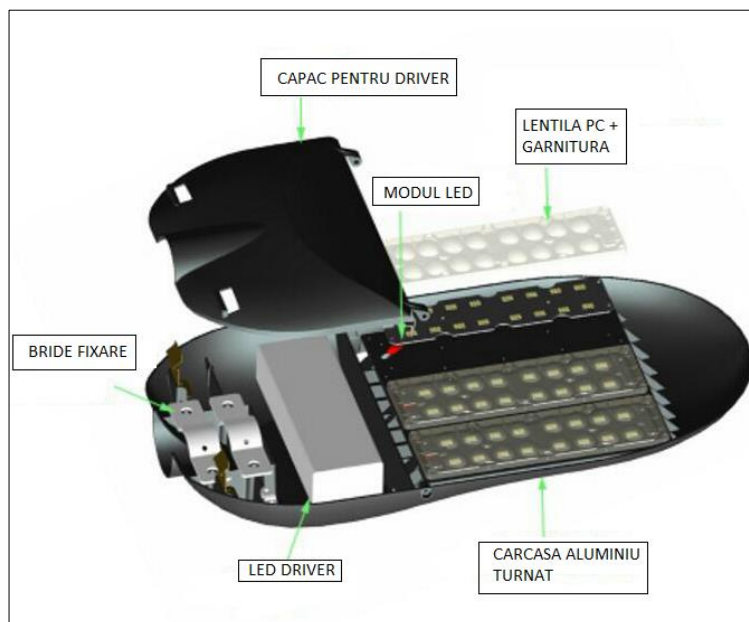


| Tip produs     | L<br>[mm] | l<br>[mm] | h<br>[mm] | m<br>[mm]                     |
|----------------|-----------|-----------|-----------|-------------------------------|
| CRIOTEK 01 LED | 487       | 200       | 99        | Φ60-65mm<br>cu bride Φ40-50mm |

## Date luminotehnice

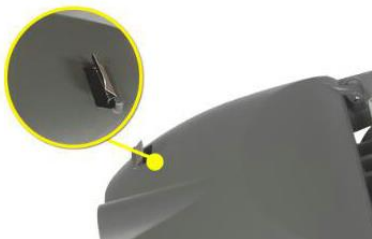


## Descriere

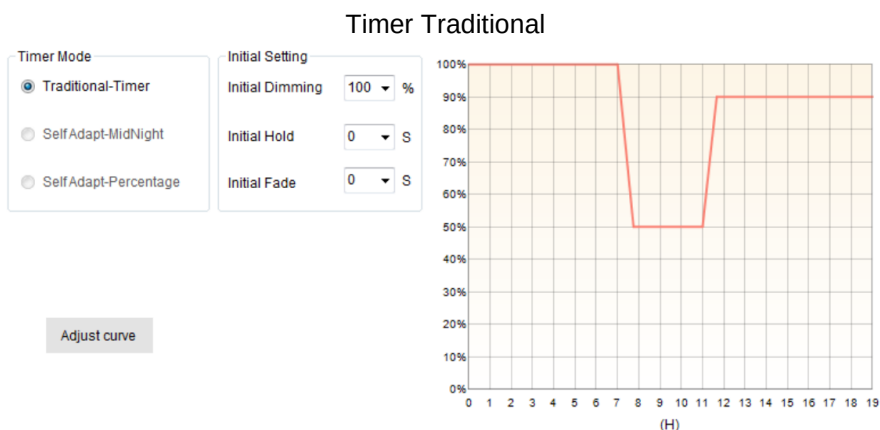


- Carcasă din aluminiu turnat sub presiune vopsită în câmp electrostatic.
- Sistemul optic din polycarbonat e conceput pentru a îndeplini cerințele standardului SR EN 13201 pentru iluminat stradal și cuprinde MODUL LED DE MARE PUTERE cu sistemul de orientare a fluxului luminos specializat pentru iluminatul rutier.
- Aparataj (driver electronic) inclus în produs și executat în conformitate cu normativele specifice.
- Reglaj de flux ( DALI 2 , D4i, Timer – Midnight/AstroDIM ) .
- Protecție contra descărcărilor atmosferice: supratensiune 10KV LN , curent de descarcare 10KA (8/20  $\mu$ s)
- CLO : sistem programabil de mentinerea constanta a fluxului luminos pe intreaga durata de viata;
- LED Driver:
  - compatibil cu tipul de modul LED utilizat ;
  - D4i – certificat ;
  - Plaja tensiunilor de alimentare 90-305 Vac, pentru protectie la fluctuatii de tensiune;
  - Grad de protectie IP66, in cazul deschiderii produsului acesta sa nu fie afectat de conditiile atmosferice;
  - Programabil prin NFC sau prin cablu DALI ;
  - sistem pentru menținerea fluxului luminos constant CLO (Constant Lumen Output) ;
  - Permite comunicarea cu componentele de comandă ale sistemelor de control prin protocol DALI,
  - Permite dimming in plaja 1-100%, in trepte de 1% .
  - Permite dimming prin functia TIMER: Traditional, Self Adapt-MidNight, Self Adapt-Percentage (AstroDIM);
  - Protectie termica in conformitate cu EN 61347-2-13 C5e;
  - Durata de viata de 100 000 ore;
  - Ajustarea curentului pe iesire in pasi de 1 mA;
  - Funcție îmbunătățită de ieșire constantă a luminii (ECLO) ;

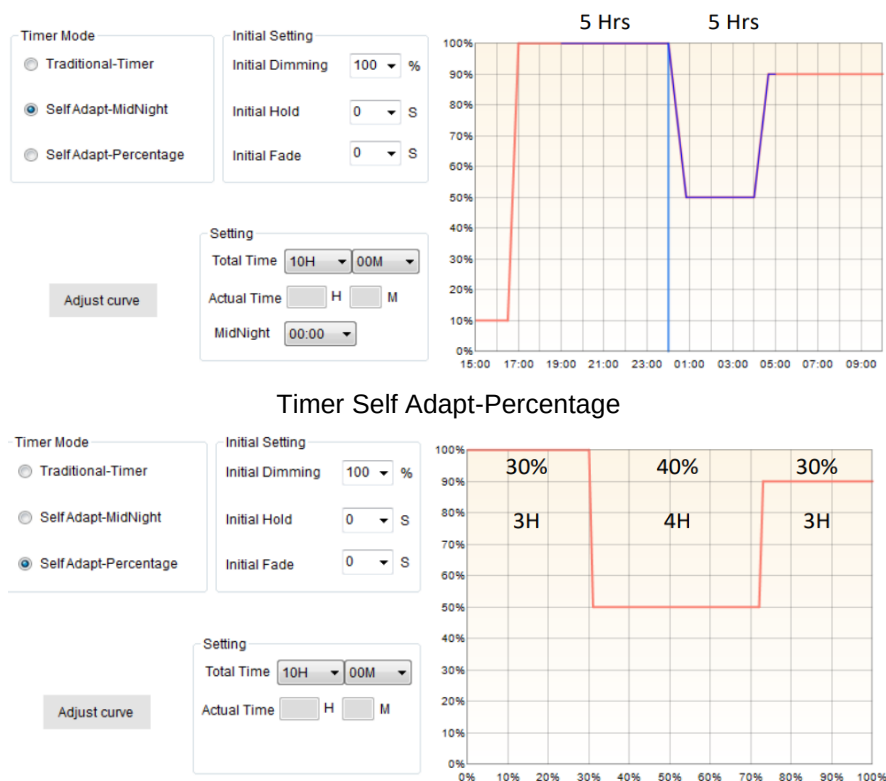
- Caracteristici de protecție (supratemperatură, scurtcircuit, suprasarcină, fara incarcare, protectie tensiune alimentare, reducere a amplificarii supratensiunii) ;
  - Protecție inteligentă pentru temperatură (ITG)
  - Protecție inteligentă împotriva tensiunii (IVG+)
  - Managementul temperaturii externe (ETM) ;
  - Alimentare auxiliară 24 Vcc, 3 W – pentru alimentare auxiliara accesorii ( senzori etc. ) .
  - DiiA / Zhaga extensii de conectivitate DT49, DT50, DT51, DT52 ;
  - DeviceKEY împotriva modificării neautorizate a parametrilor ;
  - Protecție la supratensiune ridicată: Până la 10 kV asimetric ;
  - In conformitate cu standardele : EN 55015 EN 61000-3-2 EN 61000-3-3 EN 61000-4-4 EN 61000-4-5 EN 61347-1 EN 61347-2-13 EN 62384 EN 61547 EN 62386-101 (DALI-2) EN 62386-102 (DALI-2) EN 62386-207 (DALI-2), 50172 , EN 60598-2-22 ;
  - THD, maxim 10% pentru functionarea la 75-100% din puterea nominala;
- Subansamblu placă aparataj este amovibil.
  - Subansamblu modul optic amovibil, module led cu conectori rapizi pentru a facilita inlocuirea dupa perioada de garantie.
  - Culoare: gri (RAL 7043).
  - Subansamblu placă aparataj este amovibil.



Dimming TIMER se poate seta in 3 moduri de dimare :



Timer Self Adapt-MidNight



## Variante la cerere

- Alte culori RAL pentru carcasă la cererea clientului.
- Cu LED-uri cu temperatura de culoare 2700÷6500K CRI≥80.
- Ștuț de aluminiu cu indexare 0÷90°, cu posibilitate de reglare a unghiului de înclinare cu pas de 5°, pentru fixare pe consolă sau vârf de stâlp (M000024008)
- Cu bride pentru țevă Φ48 - Φ60mm.
- Reglaj de flux DALI2 .
- Produsul poate fi echipat cu conector cu grad de protecție IP68 – alimentare 230V – alimentare modul LED , de tip independent sau mama-tata ( pentru a facilita inlocuirea componentelor ).
- ȘTUȚ DE ALUMINIU CU INDEXARE pentru montaj Φ40 –Φ80mm.
- Echipat cu senzor termic pe modulul led pentru protecția la supraincalzire (zhaga , DALI2 varianta ).
- Conector tip zhaga socket montat in partea inferioara a carcasei, pentru alimentare controler sistem de telegestiune.
- Capac cu perforații pentru acoperire striată.

## Montaj

- Sistemul de montare pe stâlp din capătul carcasei permite montarea în consolă, pe țevă Φ60 - Φ65mm, sau cu bride pe țevă Φ40 -Φ50mm.
  - CRIOTEK-01 LED: Suprafața vânt max.=0,048 m².
- Înălțime de montare recomandată: CRIOTEK 01 LED: 5÷8m.

## Caracteristici tehnice

- Tensiunea de alimentare: 230V/50Hz
- Domeniu de temperatură ambientală: -40°C...+ 55°C
- Umiditate relativă până la 80% la temperatura de + 20°C
- Grad de protecție: IP66 compartiment optic, IP66 compartiment aparataj electric.
- Rezistența la impact mecanic: IK09
- Corespunde standardelor pentru corpuri de iluminat: SR EN 60598-1, SR EN 60598-2-3.

## Conformitate cu Directivele Europene

- Directiva de Joasă Tensiune.
- Directiva de Compatibilitate Electromagnetică.
- Directiva RoHS. Directiva DEEE
- Produsul poate fi realizat în mai multe variante în funcție de număr LED-uri, putere.

| Tip produs                         | Cod produs | Tens. nom. [V] | Putere active [W] | Factor de putere | Grad de protecție | Clasa de izolație | IK   | Masa [Kg] | Flux total inițial LED/net [lm] | Eficacitate luminoasă LED netă [lm/W] |
|------------------------------------|------------|----------------|-------------------|------------------|-------------------|-------------------|------|-----------|---------------------------------|---------------------------------------|
| <b>CRIOTEK-01</b>                  |            |                |                   |                  |                   |                   |      |           |                                 |                                       |
| CRIOTEK 01 LED 18W 840 STRADA      | 35630352   | 230            | 18                | IP66             | ≥0.95             | I                 | IK09 | 2,1       | 3160                            | 175                                   |
| Accesorii                          |            |                |                   |                  |                   |                   |      |           |                                 |                                       |
| PS. BRIDA 40-50mm                  | P03816864  | -              | -                 | -                | -                 | -                 | -    | 0.1       | -                               | -                                     |
| ȘTUȚ DE ALUMINIU CU INDEXARE 0÷90° | M000024008 | -              | -                 | -                | -                 | -                 | -    | 1         | -                               | -                                     |

840=4000K min 80CRI

Z= conector ZHAGA;

**CERTIFICAT ENEC HN 69291248**
**CERTIFICAT ENEC PLUS H+ 69291413**

Valorile sunt orientative și pot să suporte modificări.

Toleranța fluxului inițial și a puterii active inițiale este de ±10% din valoarea specificată. Aceste valori sunt măsurate la temperatura ambientală de 25°C dacă nu este menționată altă temperatură.

ELBA S.A dezvoltă continuu produsele. Ne rezervăm dreptul de a modifica specificațiile tehnice în scopul ameliorării produselor noastre, fără notificare prealabilă sau anunț public. © ELBA S.A.



# RAPPORT TESTARE

Conform standardului ANSI/IES LM-80-15  
Pentru

**SAMSUNG ELECTRONICS Co., LTD**

Samsung-Ro, Giheung-Gu, Yongin-City, Gyeonggi-Do, 17113, Korea

**Model: SPMWHD32AMV5XAW0SU**

|                                                          |                                                                                                                                                                                                                                                              |                                  |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Tip Raport:</b><br>Raport de testare pentru 17000 ore |                                                                                                                                                                                                                                                              | <b>Tip produs:</b><br>Pachet LED |
| <b>Revizuit de:</b>                                      | Pote Wang                                                                                                                                                                                                                                                    |                                  |
| <b>Număr raport:</b>                                     | SZ2230531-30685E-EE                                                                                                                                                                                                                                          |                                  |
| <b>Data testului:</b>                                    | 2021-02-20 to 2023-04-20                                                                                                                                                                                                                                     |                                  |
| <b>Data raportului:</b>                                  | 2023-06-16                                                                                                                                                                                                                                                   |                                  |
| <b>Aprobat de:</b>                                       | Blake Zhang / Inginer Electric                                                                                                                                                                                                                               |                                  |
| <b>Pregătit de:</b>                                      | Laboratoarele de Conformitate Bay Area Corp. (Shenzhen)<br>Etaj 5 (B-Vest) - Etaj 7, Faza 3 a Clădirii Industriale Wan Li D,<br>Strada Shihua, Zona de Comerț Liber Futian,<br>Shenzhen, Guangdong, China.<br>Tel: +86-755-33320018<br>Fax: +86-755-33320008 |                                  |
| <b>Locație de testare:</b>                               | Locația pentru testare este la adresa: Nr.12, Pulong East 1 <sup>st</sup> Road, Oraș Tangxia, Dongguan, Guangdong, China.                                                                                                                                    |                                  |

**Notă:** Acest raport de testare a fost întocmit pentru clientul menționat mai sus și pentru dispozitivul descris în document. Reproducerea totală sau parțială a acestui raport este interzisă fără acordul prealabil, în scris, al Bay Area Compliance Laboratories Corp (Shenzhen). De asemenea, clientul nu poate utiliza acest raport pentru a pretinde certificarea, aprobarea sau susținerea produsului de către NVLAP sau orice altă agenție a Guvernului Statelor Unite.





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## 1 - Informații Generale

### 1.1 Descrierea Surselelor de Lumină LED<sup>#</sup>

#### Dimensiunea Eșantionului:

75 de probe de testare au fost în stare bună și au fost recepționate la data de 19-02-2021. Probele au fost numerotate de la 1 la 25, de la 26 la 50 și de la 51 la 75.

Producător: SAMSUNG ELECTRONICS Co., LTD

Număr de piesă: SPMWHD32AMV5XAW0SU

Tip componentă: Packet LED

Nivel de alimentare: DC 100mA

CCT nominal: 3000K

Putere: 0.272W

Densitatea medie a curentului pe matricea LED: 104.1232mA/mm<sup>2</sup>

Densitatea medie a puterii pe matricea LED: 0.2832W/mm<sup>2</sup>

CRI (Indicele de Redare a Culoarelor): 80

Distanța între matrice: /

#### Metodă de Eșantionare:

Probele LED utilizate pentru testarea conform standardului IESNA LM-80 constau în unități fabricate din minimum trei loturi de producție, fiecare lot fiind realizat din plăcuțe (wafer) provenite din loturi diferite, produse în zile neconsecutive. Aceste loturi de producție sunt selectate pentru a reprezenta o distribuție parametrică variată

#### Produsele din aceeași familie acoperite de acest raport:

Conform cerințelor *ENERGY STAR®* pentru utilizarea datelor LM-80, următoarele produse pot fi incluse în acest raport pe baza informațiilor și declarațiilor furnizate de producător. Informațiile acestor modele indică faptul că produsele incluse îndeplinesc toate cerințele din secțiunea 4 a Cerințelor *ENERGY STAR®* pentru utilizarea datelor LM-80 (28 septembrie 2017)

Acest raport acoperă următoarele modele:

| Modele de Testare  | Modele Multiple | Elemente Diferite                                                                                                                                                                                                                                          |
|--------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SPMWHD32AMV5XAW0SU | SPMWH*32*****   | <p>*1 = Versiunea produs<br/>           *2 = Tip produs<br/>           *3 = Curent de sortare<br/>           *4 = Coordonate CIE<br/>           *5,6 = Tipul VF<br/>           *7,8 = CCT (Interval de culoare)<br/>           *9,10 = Clasificare PKG</p> |

#### Note

- Solicitantul, SAMSUNG ELECTRONICS Co., LTD, confirmă că produsele lor, modelul SPMWHD32AMV5XAW0SU, sunt identice cu cele menționate în raportul nr. SZ2210219-04802E-EE-17000 și că au primit autorizație din partea solicitantului inițial pentru a utiliza datele de testare.
- Toate datele din raportul anterior (SZ2210219-04802E-EE-17000) sunt incluse și în prezentul raport.

### 1.2 Standardele și Documentațiile de Referință

- ANSI/IES LM-80-15: Metodă aprobată de IES pentru măsurarea menținerii lumenilor pentru sursele de lumină cu LED-uri.
- \*CIE 127:2007: Metodă de măsurare a LED-urilor (Acest standard nu este acreditat de NVLAP)
- \*ANSI/ASABE S640 IUL2017 Măsurători și unități pentru radiația electromagnetică aplicată plantelor (organisme fotosintetice) (Acest standard nu este acreditat de NVLAP)
- \*ANSI/ASABE S642 SEP2018 Metode recomandate pentru măsurarea și testarea produselor LED destinate creșterii și dezvoltării plantelor (Acest standard nu este acreditat de NVLAP)

### 1.3 Echipamente de Testare

| Dispozitiv                                         | Producător    | Nr. Model  | Nr. Serie        | Data Calibrării | Data Scadenței Calibrării |
|----------------------------------------------------|---------------|------------|------------------|-----------------|---------------------------|
| Sferă de integrare de 0.5m                         | EVERFINE      | AIS-2      | G185304TA1381172 | 2022-11-18      | 2023-11-17                |
| Sursă de testare LED                               | EVERFINE      | LTS-300    | P185616CD1371113 | 2022-11-18      | 2023-11-17                |
| Spectroradiometru de înaltă precizie               | EVERFINE      | HAAS-2000  | P600674CM1381123 | 2022-11-18      | 2023-11-17                |
| Sursă de lumină standard                           | EVERFINE      | D062       | 1011093          | 2020-10-20      | 2023-10-19                |
| Mașină masurare vechime cu straturi multiple       | BACL          | B2-270     | 20024            | 2022-10-19      | 2023-10-18                |
| Control programat Sursă de tensiune stabilizată DC | Hanshenpuyuan | HSPY-60-03 | N/A              | 2022-11-18      | 2023-11-17                |

### 1.4 Nivelul de Alimentare

Probele au fost alimentate cu un curent continuu constant (DC) pe durata testului de menținere și în timpul măsurătorilor fotometrice și electrice. Pe parcursul testului de menținere, valoarea curentului a fost ajustată la  $\pm 3\%$  față de valoarea specificată de producător, iar în timpul măsurătorilor fotometrice și electrice, la  $\pm 0,5\%$

### 1.5 Condițiile de Mediu pentru Testul de Întreținere

Pentru testul de menținere a lumenilor, probele dintr-un set de date au fost instalate pe plăci de răcire în camere termice cu un flux minim de aer ambiental. Temperatura carcasei și temperatura ambientală au fost monitorizate cu ajutorul termocuplurilor: unul lipit pe carcasa celui mai rece dispozitiv ( $TMP_{LED}$ ), iar celălalt amplasat la 5 mm deasupra locației TMP.

În timpul testului de durabilitate,  $TMP_{LED}$  pentru LED-urile cele mai reci a fost menținut la o valoare de cel puțin  $2^{\circ}C$  sub temperatura nominală a carcasei. Aerul ambiental a fost menținut la o temperatură de cel puțin  $5^{\circ}C$  sub temperatura nominală a carcasei. Termocuplurile au fost protejate împotriva radiației optice directe a dispozitivelor și respectă cerințele specificate în tabelul 1 din ASTM E230 pentru „Limite Speciale”.

Probele au fost conectate la o sursă de alimentare DC în circuite serie, alimentate cu un curent constant. Curentul a fost reglat la o precizie de  $\pm 3\%$  față de valoarea specificată de producător.

Pe durata testului, umiditatea relativă din cameră a fost menținută sub 65%.

În timpul măsurătorilor fotometrice, temperatura ambientală a fost setată la  $25^{\circ}C \pm 2^{\circ}C$ , cu umiditatea relativă (RH)  $< 65\%$ .

### 1.6 Metoda de Măsurare Fotometrică și Incertitudinea

Pentru măsurarea distribuției spectrale a puterii și a fluxului de fotoni s-au utilizat o sferă de integrare și un spectroradiometru. A fost aplicată metoda de măsurare la  $2\pi$ , iar eșantionul a fost alimentat cu o sursă de curent continuu (DC). Curentul a fost reglat la o precizie de  $\pm 0,5\%$  față de valoarea nominală. Sistemul de testare a fost calibrat folosind o lampă de referință cu halogen. Temperatura ambientală pe parcursul testului a fost setată la  $25^{\circ}C \pm 2^{\circ}C$ , cu umiditate relativă (RH) sub 65%. Punctul de măsurare a temperaturii a fost poziționat în interiorul sferei și monitorizat cu ajutorul unei sonde de temperatură.

### 1.7 Declarație de Trasabilitate

Bay Area Compliance Laboratories Corp. (Shenzhen) a confirmat că toate calibrările au fost efectuate utilizând standarde adecvate, trasabile la Standardele Naționale Primare și la Sistemul Internațional de Unități (SI).

## 1.8 Set de Probe

### Set de Date 1: 55°C,

100mA

Număr de piesă: SPMWHD32AMV5XAW0SU  
Număr de unități: 25  
Temperatura carcsei: >53°C  
Temperatura ambientală: >50°C  
Curent de test pentru durabilitate: 100mA  
Curent de măsurare: 100mA

### Set de Date 2: 85°C,

100mA

Număr de piesă: SPMWHD32AMV5XAW0SU  
Număr de unități: 25  
Temperatura carcsei: >83°C  
Temperatura ambientală: >80°C  
Curent de test pentru durabilitate: 100mA  
Curent de măsurare: 100mA

### Set de Date 2: 105°C,

100mA

Număr de piesă: SPMWHD32AMV5XAW0SU  
Număr de unități: 25  
Temperatura carcsei: >103°C  
Temperatura ambientală: >100°C  
Curent de test pentru durabilitate: 100mA  
Curent de măsurare: 100mA

## 2 - Rezumat al Rezultatelor Testului

| Set de Date : | Dimensiunea Eșantionului | Defecțiuni Observate: | Interval de Testare | Durata Test | $\alpha$  | $\beta$ | Conform TM-21 L <sub>70</sub> Durata de Viață | Conform TM-21 L <sub>90</sub> Durata de Viață |
|---------------|--------------------------|-----------------------|---------------------|-------------|-----------|---------|-----------------------------------------------|-----------------------------------------------|
| 1             | 25                       | 0                     | 1000 ore            | 17000 ore   | 9.245E-07 | 1.000   | >102000 ore                                   | >102000 ore                                   |
| 2             | 25                       | 0                     | 1000 ore            | 17000 ore   | 9.432E-07 | 1.001   | >102000 ore                                   | >102000 ore                                   |
| 3             | 25                       | 0                     | 1000 ore            | 17000 ore   | 1.039E-06 | 1.001   | >102000 ore                                   | >102000 ore                                   |

| Set de Date : | Dimensiunea Eșantionului | Defecțiuni Observate: | Interval de Testare | Durata Test | $\alpha$  | $\beta$ | Conform TM-21 Q <sub>70</sub> Durata de Viață | Conform TM-21 Q <sub>90</sub> Durata de Viață |
|---------------|--------------------------|-----------------------|---------------------|-------------|-----------|---------|-----------------------------------------------|-----------------------------------------------|
| 1             | 25                       | 0                     | 1000 ore            | 17000 ore   | 1.011E-06 | 0.996   | >102000 ore                                   | 101,000 ore                                   |
| 2             | 25                       | 0                     | 1000 ore            | 17000 ore   | 1.107E-06 | 0.998   | >102000 ore                                   | 93,000 ore                                    |
| 3             | 25                       | 0                     | 1000 ore            | 17000 ore   | 1.108E-06 | 0.995   | >102000 ore                                   | 90,000 ore                                    |

### Mentținerea Medie a Lumenilor (Procent din Fluxul Luminos Inițial)

| Set de Date : | 1000 ore         | 2000 ore         | 3000 ore         | 4000 ore         | 5000 ore         | 6000 ore         | 7000 ore         | 8000 ore         | 9000 ore |
|---------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|
| 1             | 100.14%          | 100.01%          | 99.88%           | 99.77%           | 99.63%           | 99.53%           | 99.40%           | 99.29%           | 99.18%   |
| 2             | 100.08%          | 99.96%           | 99.85%           | 99.73%           | 99.63%           | 99.52%           | 99.41%           | 99.31%           | 99.20%   |
| 3             | 100.07%          | 99.94%           | 99.83%           | 99.73%           | 99.62%           | 99.51%           | 99.39%           | 99.27%           | 99.14%   |
|               | <b>10000 ore</b> | <b>11000 ore</b> | <b>12000 ore</b> | <b>13000 ore</b> | <b>14000 ore</b> | <b>15000 ore</b> | <b>16000 ore</b> | <b>17000 ore</b> |          |
|               | 99.04%           | 98.96%           | 98.86%           | 98.77%           | 98.68%           | 98.61%           | 98.52%           | 98.47%           |          |
|               | 99.12%           | 99.02%           | 98.93%           | 98.82%           | 98.72%           | 98.63%           | 98.55%           | 98.49%           |          |
|               | 99.02%           | 98.91%           | 98.82%           | 98.74%           | 98.63%           | 98.52%           | 98.43%           | 98.32%           |          |

### Mentținerea Medie a Fluxului de Fotoni, Fotosintetic 400-700nm (PFMP) (Procent din Valoarea Inițială)

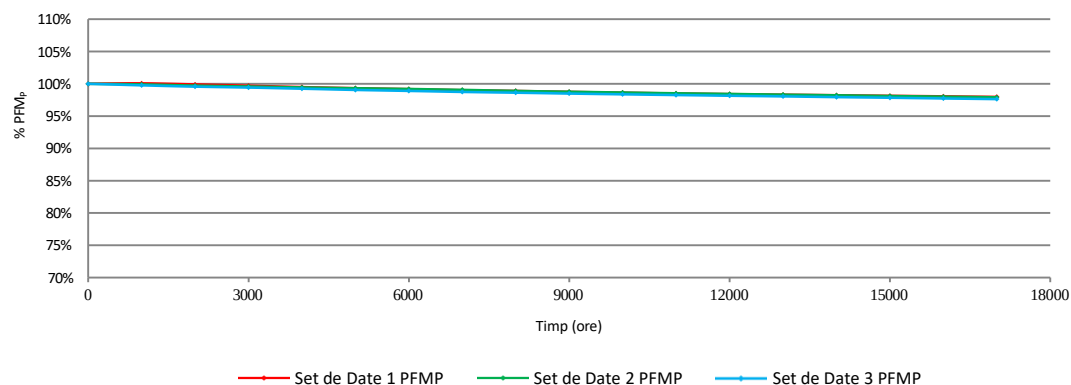
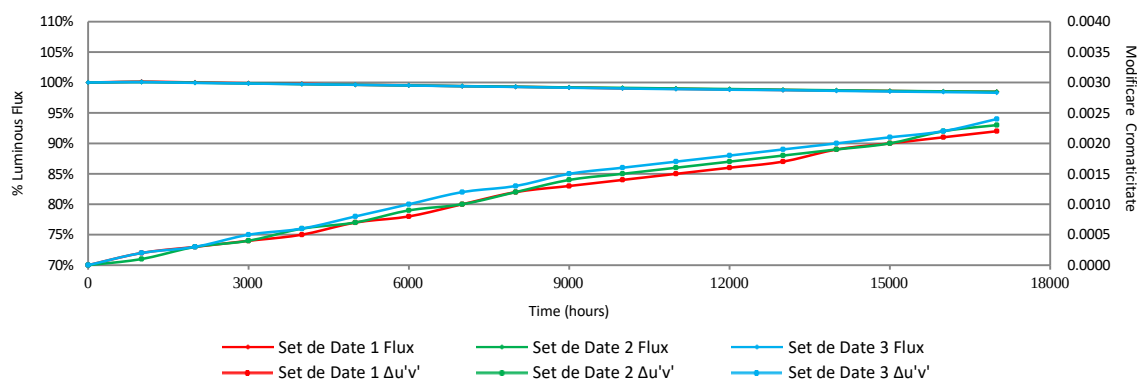
| Set de Date : | 1000 ore         | 2000 ore         | 3000 ore         | 4000 ore         | 5000 ore         | 6000 ore         | 7000 ore         | 8000 ore         | 9000 ore |
|---------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|
| 1             | 100.07%          | 99.90%           | 99.70%           | 99.49%           | 99.32%           | 99.17%           | 99.01%           | 98.89%           | 98.75%   |
| 2             | 99.91%           | 99.72%           | 99.58%           | 99.44%           | 99.31%           | 99.20%           | 99.06%           | 98.90%           | 98.77%   |
| 3             | 99.76%           | 99.56%           | 99.42%           | 99.24%           | 99.05%           | 98.90%           | 98.74%           | 98.62%           | 98.49%   |
|               | <b>10000 ore</b> | <b>11000 ore</b> | <b>12000 ore</b> | <b>13000 ore</b> | <b>14000 ore</b> | <b>15000 ore</b> | <b>16000 ore</b> | <b>17000 ore</b> |          |
|               | 98.62%           | 98.50%           | 98.40%           | 98.31%           | 98.23%           | 98.14%           | 98.06%           | 97.97%           |          |
|               | 98.65%           | 98.53%           | 98.43%           | 98.32%           | 98.22%           | 98.11%           | 98.01%           | 97.91%           |          |
|               | 98.37%           | 98.26%           | 98.15%           | 98.05%           | 97.94%           | 97.84%           | 97.73%           | 97.63%           |          |

### Modificarea Medie a Cromaticității

| Set de Date : | 1000 ore         | 2000 ore         | 3000 ore         | 4000 ore         | 5000 ore         | 6000 ore         | 7000 ore         | 8000 ore         | 9000 ore |
|---------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|
| 1             | 0.0002           | 0.0003           | 0.0004           | 0.0005           | 0.0007           | 0.0008           | 0.001            | 0.0012           | 0.0013   |
| 2             | 0.0001           | 0.0003           | 0.0004           | 0.0006           | 0.0007           | 0.0009           | 0.001            | 0.0012           | 0.0014   |
| 3             | 0.0002           | 0.0003           | 0.0005           | 0.0006           | 0.0008           | 0.001            | 0.0012           | 0.0013           | 0.0015   |
|               | <b>10000 ore</b> | <b>11000 ore</b> | <b>12000 ore</b> | <b>13000 ore</b> | <b>14000 ore</b> | <b>15000 ore</b> | <b>16000 ore</b> | <b>17000 ore</b> |          |
|               | 0.0014           | 0.0015           | 0.0016           | 0.0017           | 0.0019           | 0.002            | 0.0021           | 0.0022           |          |
|               | 0.0015           | 0.0016           | 0.0017           | 0.0018           | 0.0019           | 0.002            | 0.0022           | 0.0023           |          |
|               | 0.0016           | 0.0017           | 0.0018           | 0.0019           | 0.002            | 0.0021           | 0.0022           | 0.0024           |          |

Lungimea de Undă Medie

| Set de Date : | 1000 ore  | 2000 ore  | 3000 ore  | 4000 ore  | 5000 ore  | 6000 ore  | 7000 ore  | 8000 ore  | 9000 ore |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| 1             | 603.9     | 603.7     | 603.8     | 603.4     | 603.8     | 603.9     | 603.4     | 603.3     | 602.9    |
| 2             | 603.5     | 603.2     | 603.3     | 603.5     | 603.4     | 603.7     | 603.6     | 602.9     | 603.1    |
| 3             | 603.8     | 603.5     | 602.8     | 602.9     | 603.1     | 603.9     | 603.2     | 603.6     | 603.4    |
|               | 10000 ore | 11000 ore | 12000 ore | 13000 ore | 14000 ore | 15000 ore | 16000 ore | 17000 ore |          |
|               | 603.4     | 603.5     | 603.3     | 603.8     | 603.2     | 603.5     | 603.8     | 603.6     |          |
|               | 603.7     | 603.0     | 603.3     | 603.5     | 603.6     | 603.5     | 603.4     | 603.3     |          |
|               | 603.3     | 603.3     | 603.3     | 603.2     | 603.4     | 603.2     | 603.7     | 603.4     |          |



### 3 - Date de Testare

#### 3.1 Set de Date 1, 55°C, 100mA (Menținerea Lumenilor)

| Nr.              | Φ(lm)           | Menținerea Lumenilor (%) |          |          |          |          |          |          |          |          |
|------------------|-----------------|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
|                  | 0 ore (Inițial) | 1000 ore                 | 2000 ore | 3000 ore | 4000 ore | 5000 ore | 6000 ore | 7000 ore | 8000 ore | 9000 ore |
| 1                | 57.23           | 100.09                   | 100.03   | 99.86    | 99.84    | 99.70    | 99.60    | 99.48    | 99.42    | 99.32    |
| 2                | 57.98           | 100.03                   | 99.91    | 99.76    | 99.76    | 99.67    | 99.66    | 99.53    | 99.47    | 99.47    |
| 3                | 56.90           | 100.05                   | 99.95    | 99.86    | 99.79    | 99.70    | 99.67    | 99.47    | 99.42    | 99.40    |
| 4                | 57.53           | 100.10                   | 100.03   | 99.86    | 99.70    | 99.62    | 99.51    | 99.37    | 99.22    | 99.08    |
| 5                | 57.47           | 100.19                   | 100.10   | 99.97    | 99.86    | 99.76    | 99.67    | 99.53    | 99.32    | 99.23    |
| 6                | 57.50           | 100.10                   | 99.95    | 99.90    | 99.72    | 99.60    | 99.53    | 99.48    | 99.43    | 99.36    |
| 7                | 58.01           | 100.10                   | 99.97    | 99.90    | 99.76    | 99.60    | 99.52    | 99.41    | 99.41    | 99.29    |
| 8                | 57.97           | 100.21                   | 100.03   | 99.81    | 99.65    | 99.38    | 99.22    | 99.03    | 98.84    | 98.65    |
| 9                | 57.76           | 100.28                   | 100.14   | 100.09   | 99.97    | 99.86    | 99.76    | 99.62    | 99.52    | 99.36    |
| 10               | 58.79           | 100.10                   | 99.98    | 99.91    | 99.90    | 99.81    | 99.66    | 99.52    | 99.30    | 99.20    |
| 11               | 56.87           | 100.16                   | 99.98    | 99.91    | 99.75    | 99.65    | 99.65    | 99.47    | 99.47    | 99.45    |
| 12               | 58.08           | 100.05                   | 99.97    | 99.79    | 99.62    | 99.54    | 99.38    | 99.24    | 99.19    | 99.14    |
| 13               | 57.68           | 100.09                   | 99.97    | 99.86    | 99.72    | 99.57    | 99.43    | 99.29    | 99.24    | 99.22    |
| 14               | 58.33           | 100.19                   | 100.03   | 100.00   | 99.95    | 99.85    | 99.81    | 99.79    | 99.62    | 99.43    |
| 15               | 57.92           | 100.10                   | 100.00   | 99.95    | 99.91    | 99.79    | 99.67    | 99.67    | 99.57    | 99.52    |
| 16               | 57.33           | 100.21                   | 99.97    | 99.76    | 99.56    | 99.35    | 99.16    | 98.94    | 98.80    | 98.60    |
| 17               | 56.45           | 100.04                   | 99.89    | 99.86    | 99.79    | 99.72    | 99.75    | 99.56    | 99.56    | 99.52    |
| 18               | 58.18           | 100.15                   | 100.14   | 100.09   | 100.05   | 99.97    | 99.90    | 99.81    | 99.66    | 99.52    |
| 19               | 58.18           | 100.24                   | 100.03   | 99.81    | 99.57    | 99.33    | 99.19    | 99.23    | 99.09    | 98.87    |
| 20               | 58.17           | 100.14                   | 100.03   | 99.91    | 99.90    | 99.76    | 99.71    | 99.66    | 99.60    | 99.54    |
| 21               | 58.61           | 100.19                   | 99.98    | 99.81    | 99.61    | 99.42    | 99.28    | 99.04    | 98.82    | 98.64    |
| 22               | 58.09           | 100.10                   | 99.95    | 99.76    | 99.71    | 99.43    | 99.41    | 99.24    | 99.19    | 99.04    |
| 23               | 58.39           | 100.15                   | 100.03   | 99.90    | 99.90    | 99.79    | 99.61    | 99.42    | 99.33    | 99.20    |
| 24               | 57.76           | 100.21                   | 100.03   | 99.79    | 99.60    | 99.41    | 99.22    | 98.98    | 98.79    | 98.60    |
| 25               | 58.15           | 100.33                   | 100.09   | 99.86    | 99.72    | 99.54    | 99.38    | 99.19    | 99.00    | 98.81    |
| Medie            | 57.81           | 100.14                   | 100.01   | 99.88    | 99.77    | 99.63    | 99.53    | 99.40    | 99.29    | 99.18    |
| Mediană          | 57.97           | 100.14                   | 100.00   | 99.86    | 99.76    | 99.65    | 99.60    | 99.47    | 99.33    | 99.23    |
| Abatere standard | 0.56            | 0.0754                   | 0.0635   | 0.0895   | 0.1323   | 0.1751   | 0.2071   | 0.2414   | 0.2694   | 0.3131   |
| Min.             | 56.45           | 100.03                   | 99.89    | 99.76    | 99.56    | 99.33    | 99.16    | 98.94    | 98.79    | 98.60    |
| Max.             | 58.79           | 100.33                   | 100.14   | 100.09   | 100.05   | 99.97    | 99.90    | 99.81    | 99.66    | 99.54    |



| Nr.              | Menținerea Lumenilor (%) |           |           |           |           |           |           |           |
|------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                  | 10000 ore                | 11000 ore | 12000 ore | 13000 ore | 14000 ore | 15000 ore | 16000 ore | 17000 ore |
| 1                | 99.35                    | 99.21     | 98.97     | 98.72     | 98.69     | 98.65     | 98.65     | 98.55     |
| 2                | 99.28                    | 99.22     | 99.14     | 99.19     | 99.14     | 99.05     | 98.95     | 98.95     |
| 3                | 99.26                    | 99.16     | 99.09     | 99.02     | 98.98     | 99.03     | 98.84     | 98.91     |
| 4                | 98.89                    | 98.70     | 98.42     | 98.37     | 98.16     | 98.21     | 98.23     | 98.30     |
| 5                | 99.22                    | 99.18     | 99.04     | 98.94     | 98.80     | 98.73     | 98.49     | 98.31     |
| 6                | 99.23                    | 99.18     | 99.03     | 98.80     | 98.75     | 98.83     | 98.54     | 98.35     |
| 7                | 99.19                    | 99.09     | 98.95     | 98.81     | 98.81     | 98.67     | 98.52     | 98.55     |
| 8                | 98.57                    | 98.55     | 98.52     | 98.52     | 98.46     | 98.43     | 98.41     | 98.36     |
| 9                | 99.10                    | 99.05     | 99.05     | 98.84     | 98.70     | 98.46     | 98.36     | 98.30     |
| 10               | 98.96                    | 98.91     | 98.91     | 98.72     | 98.59     | 98.45     | 98.38     | 98.21     |
| 11               | 99.23                    | 99.17     | 99.09     | 98.87     | 98.91     | 98.77     | 98.72     | 98.59     |
| 12               | 99.04                    | 98.98     | 98.95     | 98.74     | 98.62     | 98.61     | 98.52     | 98.38     |
| 13               | 98.99                    | 98.89     | 98.75     | 98.70     | 98.56     | 98.40     | 98.49     | 98.49     |
| 14               | 99.52                    | 99.23     | 99.11     | 99.06     | 98.99     | 98.95     | 98.80     | 98.61     |
| 15               | 99.27                    | 99.00     | 98.79     | 98.76     | 98.76     | 98.74     | 98.65     | 98.65     |
| 16               | 98.34                    | 98.34     | 98.31     | 98.36     | 98.36     | 98.22     | 98.12     | 98.17     |
| 17               | 99.36                    | 99.15     | 98.97     | 98.90     | 98.76     | 98.57     | 98.58     | 98.51     |
| 18               | 99.30                    | 98.99     | 98.90     | 98.76     | 98.61     | 98.50     | 98.37     | 98.33     |
| 19               | 98.81                    | 98.80     | 98.71     | 98.57     | 98.50     | 98.61     | 98.56     | 98.47     |
| 20               | 99.48                    | 99.38     | 99.23     | 99.05     | 99.00     | 98.81     | 98.76     | 98.85     |
| 21               | 98.62                    | 98.58     | 98.58     | 98.57     | 98.48     | 98.52     | 98.48     | 98.43     |
| 22               | 98.76                    | 98.85     | 98.85     | 98.81     | 98.62     | 98.50     | 98.24     | 98.18     |
| 23               | 99.01                    | 99.04     | 99.06     | 98.99     | 98.82     | 98.77     | 98.61     | 98.56     |
| 24               | 98.46                    | 98.60     | 98.49     | 98.46     | 98.42     | 98.32     | 98.36     | 98.30     |
| 25               | 98.87                    | 98.87     | 98.61     | 98.68     | 98.57     | 98.37     | 98.44     | 98.44     |
| Medie            | 99.04                    | 98.96     | 98.86     | 98.77     | 98.68     | 98.61     | 98.52     | 98.47     |
| Mediană          | 99.10                    | 99.00     | 98.95     | 98.76     | 98.69     | 98.61     | 98.52     | 98.44     |
| Abatere standard | 0.3163                   | 0.2567    | 0.2489    | 0.2145    | 0.2257    | 0.2311    | 0.1994    | 0.2109    |
| Min.             | 98.34                    | 98.34     | 98.31     | 98.36     | 98.16     | 98.21     | 98.12     | 98.17     |
| Max.             | 99.52                    | 99.38     | 99.23     | 99.19     | 99.14     | 99.05     | 98.95     | 98.95     |

### 3.2 Set de Date 1, 55°C, 100mA (400-700nm Menținerea Fluxului de Fotoni)

| Nr.              | $\Phi_p (\mu\text{mol} \times \text{s}^{-1})$ | 400-700nm Menținerea Fluxului de Fotoni (%) |          |          |          |          |          |          |          |          |
|------------------|-----------------------------------------------|---------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
|                  | 0 ore (Inițial)                               | 1000 ore                                    | 2000 ore | 3000 ore | 4000 ore | 5000 ore | 6000 ore | 7000 ore | 8000 ore | 9000 ore |
| 1                | 0.5991                                        | 99.70                                       | 99.65    | 99.53    | 99.43    | 99.33    | 99.23    | 99.08    | 98.93    | 98.78    |
| 2                | 0.6050                                        | 100.23                                      | 100.05   | 99.59    | 99.49    | 99.22    | 98.86    | 98.76    | 98.66    | 98.55    |
| 3                | 0.5973                                        | 99.90                                       | 99.63    | 99.53    | 99.21    | 99.06    | 99.00    | 98.76    | 98.68    | 98.58    |
| 4                | 0.5942                                        | 100.32                                      | 100.25   | 100.10   | 99.68    | 99.61    | 99.50    | 99.38    | 99.29    | 99.21    |
| 5                | 0.5944                                        | 100.05                                      | 99.97    | 99.92    | 99.76    | 99.53    | 99.39    | 99.21    | 99.09    | 98.89    |
| 6                | 0.6002                                        | 99.85                                       | 99.70    | 99.48    | 99.40    | 99.22    | 99.12    | 98.95    | 98.80    | 98.65    |
| 7                | 0.6076                                        | 99.52                                       | 99.39    | 99.24    | 99.08    | 98.98    | 98.88    | 98.75    | 98.55    | 98.40    |
| 8                | 0.6002                                        | 100.05                                      | 99.95    | 99.85    | 99.53    | 99.22    | 99.02    | 98.80    | 98.70    | 98.55    |
| 9                | 0.6005                                        | 100.37                                      | 100.27   | 100.15   | 99.73    | 99.58    | 99.53    | 99.22    | 98.83    | 98.47    |
| 10               | 0.6090                                        | 99.84                                       | 99.69    | 99.56    | 99.46    | 99.24    | 99.15    | 98.98    | 98.83    | 98.69    |
| 11               | 0.5965                                        | 100.30                                      | 99.80    | 99.53    | 99.28    | 99.03    | 98.93    | 98.78    | 98.61    | 98.46    |
| 12               | 0.6048                                        | 100.26                                      | 100.13   | 100.03   | 99.95    | 99.79    | 99.64    | 99.54    | 99.37    | 99.22    |
| 13               | 0.6032                                        | 100.36                                      | 99.97    | 99.82    | 99.73    | 99.60    | 99.47    | 99.29    | 99.09    | 98.99    |
| 14               | 0.6061                                        | 100.36                                      | 100.25   | 100.05   | 99.75    | 99.34    | 98.78    | 98.63    | 98.47    | 98.32    |
| 15               | 0.6017                                        | 100.22                                      | 99.95    | 99.90    | 99.73    | 99.68    | 99.63    | 99.47    | 99.39    | 99.34    |
| 16               | 0.6006                                        | 99.95                                       | 99.75    | 99.28    | 99.03    | 98.78    | 98.58    | 98.42    | 98.32    | 98.22    |
| 17               | 0.5841                                        | 99.90                                       | 99.78    | 99.64    | 99.45    | 99.30    | 99.21    | 99.13    | 99.02    | 98.87    |
| 18               | 0.5965                                        | 100.05                                      | 99.80    | 99.48    | 99.31    | 99.25    | 99.13    | 99.03    | 98.93    | 98.83    |
| 19               | 0.6032                                        | 100.27                                      | 100.10   | 99.85    | 99.77    | 99.64    | 99.47    | 99.34    | 99.27    | 99.14    |
| 20               | 0.6023                                        | 100.15                                      | 100.05   | 99.78    | 99.37    | 99.17    | 99.00    | 98.89    | 98.79    | 98.67    |
| 21               | 0.6075                                        | 99.65                                       | 99.52    | 99.37    | 99.23    | 99.13    | 99.03    | 98.83    | 98.73    | 98.53    |
| 22               | 0.6033                                        | 100.10                                      | 100.05   | 99.80    | 99.44    | 99.39    | 99.29    | 99.20    | 99.10    | 99.02    |
| 23               | 0.6065                                        | 99.98                                       | 99.60    | 99.46    | 99.36    | 99.14    | 99.01    | 98.90    | 98.80    | 98.70    |
| 24               | 0.6009                                        | 100.20                                      | 100.15   | 99.65    | 99.38    | 99.08    | 98.69    | 98.54    | 98.49    | 98.27    |
| 25               | 0.6018                                        | 100.25                                      | 100.03   | 99.93    | 99.78    | 99.68    | 99.60    | 99.50    | 99.42    | 99.32    |
| Medie            | 0.6011                                        | 100.07                                      | 99.90    | 99.70    | 99.49    | 99.32    | 99.17    | 99.01    | 98.89    | 98.75    |
| Mediană          | 0.6017                                        | 100.10                                      | 99.95    | 99.65    | 99.45    | 99.25    | 99.13    | 98.98    | 98.83    | 98.69    |
| Abatere standard | 0.0054                                        | 0.24                                        | 0.24     | 0.26     | 0.24     | 0.26     | 0.30     | 0.31     | 0.31     | 0.33     |
| Min.             | 0.5841                                        | 99.52                                       | 99.39    | 99.24    | 99.03    | 98.78    | 98.58    | 98.42    | 98.32    | 98.22    |
| Max.             | 0.6090                                        | 100.37                                      | 100.27   | 100.15   | 99.95    | 99.79    | 99.64    | 99.54    | 99.42    | 99.34    |

| Nr.              | 400-700nm Menținerea Fluxului de Fotoni (%) |           |           |           |           |           |           |           |
|------------------|---------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                  | 10000 ore                                   | 11000 ore | 12000 ore | 13000 ore | 14000 ore | 15000 ore | 16000 ore | 17000 ore |
| 1                | 98.65                                       | 98.56     | 98.41     | 98.28     | 98.18     | 98.08     | 97.93     | 97.85     |
| 2                | 98.40                                       | 98.23     | 98.13     | 98.10     | 98.05     | 97.98     | 97.95     | 97.90     |
| 3                | 98.48                                       | 98.38     | 98.28     | 98.14     | 98.06     | 97.96     | 97.84     | 97.71     |
| 4                | 99.12                                       | 99.04     | 98.97     | 98.87     | 98.79     | 98.69     | 98.62     | 98.54     |
| 5                | 98.76                                       | 98.62     | 98.52     | 98.44     | 98.37     | 98.27     | 98.20     | 98.10     |
| 6                | 98.60                                       | 98.50     | 98.35     | 98.27     | 98.13     | 98.02     | 97.92     | 97.85     |
| 7                | 98.24                                       | 98.09     | 98.01     | 97.89     | 97.78     | 97.68     | 97.58     | 97.53     |
| 8                | 98.40                                       | 98.23     | 98.13     | 98.05     | 97.98     | 97.88     | 97.80     | 97.75     |
| 9                | 98.20                                       | 98.05     | 98.00     | 97.95     | 97.90     | 97.80     | 97.70     | 97.65     |
| 10               | 98.62                                       | 98.47     | 98.28     | 98.06     | 97.95     | 97.85     | 97.70     | 97.60     |
| 11               | 98.31                                       | 98.16     | 98.06     | 97.97     | 97.85     | 97.75     | 97.67     | 97.57     |
| 12               | 99.11                                       | 98.96     | 98.84     | 98.81     | 98.74     | 98.66     | 98.59     | 98.51     |
| 13               | 98.84                                       | 98.67     | 98.59     | 98.52     | 98.47     | 98.39     | 98.33     | 98.21     |
| 14               | 98.17                                       | 98.00     | 97.95     | 97.87     | 97.77     | 97.66     | 97.57     | 97.48     |
| 15               | 99.24                                       | 99.15     | 99.05     | 98.97     | 98.89     | 98.80     | 98.74     | 98.69     |
| 16               | 98.12                                       | 98.02     | 97.97     | 97.89     | 97.84     | 97.79     | 97.75     | 97.69     |
| 17               | 98.72                                       | 98.51     | 98.41     | 98.37     | 98.32     | 98.22     | 98.12     | 98.01     |
| 18               | 98.74                                       | 98.66     | 98.58     | 98.49     | 98.41     | 98.34     | 98.26     | 98.14     |
| 19               | 98.99                                       | 98.92     | 98.82     | 98.79     | 98.71     | 98.62     | 98.59     | 98.51     |
| 20               | 98.57                                       | 98.47     | 98.36     | 98.29     | 98.22     | 98.12     | 98.04     | 97.96     |
| 21               | 98.44                                       | 98.35     | 98.21     | 97.99     | 97.79     | 97.74     | 97.66     | 97.56     |
| 22               | 98.91                                       | 98.81     | 98.76     | 98.67     | 98.57     | 98.48     | 98.41     | 98.34     |
| 23               | 98.53                                       | 98.43     | 98.37     | 98.27     | 98.19     | 98.10     | 98.02     | 97.92     |
| 24               | 98.22                                       | 98.07     | 97.97     | 97.89     | 97.84     | 97.79     | 97.75     | 97.69     |
| 25               | 99.22                                       | 99.17     | 99.04     | 98.92     | 98.85     | 98.74     | 98.65     | 98.54     |
| Medie            | 98.62                                       | 98.50     | 98.40     | 98.31     | 98.23     | 98.14     | 98.06     | 97.97     |
| Mediană          | 98.60                                       | 98.47     | 98.36     | 98.27     | 98.18     | 98.08     | 97.95     | 97.90     |
| Abatere standard | 0.34                                        | 0.36      | 0.35      | 0.36      | 0.37      | 0.36      | 0.37      | 0.37      |
| Min.             | 98.12                                       | 98.00     | 97.95     | 97.87     | 97.77     | 97.66     | 97.57     | 97.48     |
| Max.             | 99.24                                       | 99.17     | 99.05     | 98.97     | 98.89     | 98.80     | 98.74     | 98.69     |

### 3.3 Set de Date 1, 55°C, 100mA (Modificarea Cromaticității)

| Nr.              | u'              | v'     | Modificarea Cromaticității ( $\Delta u'v'$ ) |          |          |          |          |          |          |          |          |
|------------------|-----------------|--------|----------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
|                  | 0 ore (Inițial) |        | 1000 ore                                     | 2000 ore | 3000 ore | 4000 ore | 5000 ore | 6000 ore | 7000 ore | 8000 ore | 9000 ore |
| 1                | 0.2531          | 0.5201 | 0.0001                                       | 0.0002   | 0.0004   | 0.0005   | 0.0007   | 0.0009   | 0.0010   | 0.0011   | 0.0013   |
| 2                | 0.2522          | 0.5204 | 0.0001                                       | 0.0002   | 0.0004   | 0.0005   | 0.0007   | 0.0009   | 0.0010   | 0.0011   | 0.0012   |
| 3                | 0.2541          | 0.5201 | 0.0002                                       | 0.0003   | 0.0004   | 0.0006   | 0.0007   | 0.0009   | 0.0011   | 0.0013   | 0.0014   |
| 4                | 0.2518          | 0.5228 | 0.0002                                       | 0.0002   | 0.0004   | 0.0006   | 0.0008   | 0.0009   | 0.0011   | 0.0013   | 0.0014   |
| 5                | 0.2512          | 0.5222 | 0.0002                                       | 0.0003   | 0.0004   | 0.0005   | 0.0006   | 0.0008   | 0.0010   | 0.0012   | 0.0013   |
| 6                | 0.2532          | 0.5208 | 0.0002                                       | 0.0004   | 0.0006   | 0.0007   | 0.0008   | 0.0010   | 0.0011   | 0.0013   | 0.0015   |
| 7                | 0.2546          | 0.5207 | 0.0001                                       | 0.0002   | 0.0003   | 0.0004   | 0.0006   | 0.0008   | 0.0011   | 0.0012   | 0.0013   |
| 8                | 0.2519          | 0.5218 | 0.0002                                       | 0.0003   | 0.0004   | 0.0005   | 0.0006   | 0.0008   | 0.0009   | 0.0012   | 0.0014   |
| 9                | 0.2529          | 0.5215 | 0.0001                                       | 0.0003   | 0.0004   | 0.0006   | 0.0007   | 0.0008   | 0.0010   | 0.0012   | 0.0014   |
| 10               | 0.2527          | 0.5235 | 0.0001                                       | 0.0002   | 0.0004   | 0.0006   | 0.0007   | 0.0008   | 0.0010   | 0.0011   | 0.0013   |
| 11               | 0.2533          | 0.5194 | 0.0001                                       | 0.0002   | 0.0004   | 0.0006   | 0.0008   | 0.0009   | 0.0011   | 0.0012   | 0.0013   |
| 12               | 0.2528          | 0.5209 | 0.0001                                       | 0.0003   | 0.0004   | 0.0005   | 0.0007   | 0.0008   | 0.0010   | 0.0012   | 0.0013   |
| 13               | 0.2532          | 0.5206 | 0.0001                                       | 0.0002   | 0.0004   | 0.0006   | 0.0007   | 0.0008   | 0.0009   | 0.0011   | 0.0012   |
| 14               | 0.2520          | 0.5210 | 0.0002                                       | 0.0003   | 0.0004   | 0.0006   | 0.0007   | 0.0009   | 0.0011   | 0.0013   | 0.0014   |
| 15               | 0.2536          | 0.5221 | 0.0002                                       | 0.0003   | 0.0005   | 0.0006   | 0.0008   | 0.0009   | 0.0010   | 0.0011   | 0.0013   |
| 16               | 0.2530          | 0.5195 | 0.0001                                       | 0.0002   | 0.0004   | 0.0005   | 0.0006   | 0.0008   | 0.0010   | 0.0011   | 0.0013   |
| 17               | 0.2513          | 0.5224 | 0.0001                                       | 0.0001   | 0.0004   | 0.0004   | 0.0006   | 0.0008   | 0.0009   | 0.0011   | 0.0012   |
| 18               | 0.2505          | 0.5239 | 0.0001                                       | 0.0002   | 0.0004   | 0.0006   | 0.0008   | 0.0010   | 0.0011   | 0.0013   | 0.0014   |
| 19               | 0.2524          | 0.5215 | 0.0001                                       | 0.0002   | 0.0003   | 0.0004   | 0.0006   | 0.0007   | 0.0009   | 0.0011   | 0.0013   |
| 20               | 0.2532          | 0.5231 | 0.0001                                       | 0.0002   | 0.0003   | 0.0005   | 0.0006   | 0.0008   | 0.0009   | 0.0011   | 0.0012   |
| 21               | 0.2519          | 0.5215 | 0.0001                                       | 0.0001   | 0.0002   | 0.0004   | 0.0005   | 0.0006   | 0.0008   | 0.0009   | 0.0011   |
| 22               | 0.2525          | 0.5215 | 0.0001                                       | 0.0003   | 0.0004   | 0.0006   | 0.0008   | 0.0009   | 0.0011   | 0.0012   | 0.0013   |
| 23               | 0.2529          | 0.5221 | 0.0002                                       | 0.0003   | 0.0004   | 0.0006   | 0.0007   | 0.0008   | 0.0011   | 0.0012   | 0.0013   |
| 24               | 0.2517          | 0.5208 | 0.0002                                       | 0.0003   | 0.0004   | 0.0005   | 0.0007   | 0.0009   | 0.0010   | 0.0013   | 0.0014   |
| 25               | 0.2521          | 0.5218 | 0.0001                                       | 0.0003   | 0.0003   | 0.0004   | 0.0005   | 0.0007   | 0.0008   | 0.0011   | 0.0013   |
| Medie            | 0.2526          | 0.5214 | 0.0002                                       | 0.0003   | 0.0004   | 0.0005   | 0.0007   | 0.0008   | 0.0010   | 0.0012   | 0.0013   |
| Mediană          | 0.2527          | 0.5215 | 0.0001                                       | 0.0002   | 0.0004   | 0.0005   | 0.0007   | 0.0008   | 0.0010   | 0.0012   | 0.0013   |
| Abatere standard | 0.0009          | 0.0012 | 0.0000                                       | 0.0001   | 0.0001   | 0.0001   | 0.0001   | 0.0001   | 0.0001   | 0.0001   | 0.0001   |
| Min.             | 0.2505          | 0.5194 | 0.0001                                       | 0.0001   | 0.0002   | 0.0004   | 0.0005   | 0.0006   | 0.0008   | 0.0009   | 0.0011   |
| Max.             | 0.2546          | 0.5239 | 0.0002                                       | 0.0004   | 0.0006   | 0.0007   | 0.0008   | 0.0010   | 0.0011   | 0.0013   | 0.0015   |

| Nr.              | Modificarea Cromaticității ( $\Delta u^*v^*$ ) |           |           |           |           |           |           |           |
|------------------|------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                  | 10000 ore                                      | 11000 ore | 12000 ore | 13000 ore | 14000 ore | 15000 ore | 16000 ore | 17000 ore |
| 1                | 0.0014                                         | 0.0016    | 0.0017    | 0.0018    | 0.0019    | 0.0019    | 0.0021    | 0.0022    |
| 2                | 0.0011                                         | 0.0012    | 0.0014    | 0.0016    | 0.0017    | 0.0018    | 0.0019    | 0.0021    |
| 3                | 0.0015                                         | 0.0016    | 0.0017    | 0.0018    | 0.0020    | 0.0022    | 0.0023    | 0.0024    |
| 4                | 0.0015                                         | 0.0016    | 0.0017    | 0.0018    | 0.0018    | 0.0020    | 0.0022    | 0.0023    |
| 5                | 0.0015                                         | 0.0016    | 0.0017    | 0.0019    | 0.0019    | 0.0021    | 0.0023    | 0.0023    |
| 6                | 0.0017                                         | 0.0018    | 0.0020    | 0.0021    | 0.0022    | 0.0023    | 0.0025    | 0.0026    |
| 7                | 0.0015                                         | 0.0016    | 0.0017    | 0.0018    | 0.0020    | 0.0020    | 0.0021    | 0.0023    |
| 8                | 0.0014                                         | 0.0016    | 0.0017    | 0.0019    | 0.0021    | 0.0022    | 0.0022    | 0.0024    |
| 9                | 0.0014                                         | 0.0016    | 0.0017    | 0.0019    | 0.0021    | 0.0023    | 0.0024    | 0.0024    |
| 10               | 0.0014                                         | 0.0015    | 0.0016    | 0.0018    | 0.0019    | 0.0021    | 0.0021    | 0.0023    |
| 11               | 0.0014                                         | 0.0015    | 0.0017    | 0.0018    | 0.0020    | 0.0021    | 0.0022    | 0.0023    |
| 12               | 0.0014                                         | 0.0014    | 0.0016    | 0.0017    | 0.0018    | 0.0020    | 0.0021    | 0.0022    |
| 13               | 0.0014                                         | 0.0015    | 0.0017    | 0.0019    | 0.0021    | 0.0023    | 0.0022    | 0.0024    |
| 14               | 0.0011                                         | 0.0013    | 0.0014    | 0.0016    | 0.0017    | 0.0019    | 0.0021    | 0.0023    |
| 15               | 0.0014                                         | 0.0012    | 0.0013    | 0.0015    | 0.0015    | 0.0017    | 0.0018    | 0.0021    |
| 16               | 0.0015                                         | 0.0014    | 0.0016    | 0.0015    | 0.0016    | 0.0017    | 0.0019    | 0.0021    |
| 17               | 0.0014                                         | 0.0012    | 0.0014    | 0.0016    | 0.0017    | 0.0018    | 0.0019    | 0.0020    |
| 18               | 0.0016                                         | 0.0017    | 0.0015    | 0.0016    | 0.0017    | 0.0018    | 0.0019    | 0.0020    |
| 19               | 0.0014                                         | 0.0016    | 0.0017    | 0.0017    | 0.0018    | 0.0020    | 0.0021    | 0.0022    |
| 20               | 0.0013                                         | 0.0015    | 0.0016    | 0.0017    | 0.0018    | 0.0020    | 0.0020    | 0.0021    |
| 21               | 0.0012                                         | 0.0013    | 0.0014    | 0.0015    | 0.0016    | 0.0018    | 0.0020    | 0.0020    |
| 22               | 0.0014                                         | 0.0016    | 0.0017    | 0.0018    | 0.0020    | 0.0020    | 0.0022    | 0.0021    |
| 23               | 0.0014                                         | 0.0016    | 0.0017    | 0.0018    | 0.0021    | 0.0020    | 0.0021    | 0.0023    |
| 24               | 0.0015                                         | 0.0016    | 0.0017    | 0.0018    | 0.0019    | 0.0019    | 0.0021    | 0.0021    |
| 25               | 0.0015                                         | 0.0016    | 0.0018    | 0.0019    | 0.0020    | 0.0021    | 0.0021    | 0.0022    |
| Medie            | 0.0014                                         | 0.0015    | 0.0016    | 0.0017    | 0.0019    | 0.0020    | 0.0021    | 0.0022    |
| Mediană          | 0.0014                                         | 0.0016    | 0.0017    | 0.0018    | 0.0019    | 0.0020    | 0.0021    | 0.0022    |
| Abatere standard | 0.0001                                         | 0.0002    | 0.0002    | 0.0002    | 0.0002    | 0.0002    | 0.0002    | 0.0002    |
| Min.             | 0.0011                                         | 0.0012    | 0.0013    | 0.0015    | 0.0015    | 0.0017    | 0.0018    | 0.0020    |
| Max.             | 0.0017                                         | 0.0018    | 0.0020    | 0.0021    | 0.0022    | 0.0023    | 0.0025    | 0.0026    |

### 3.4 Set de Date 1, 55°C, 100mA (Tensiunea Directă)

| Nr.              | Tensiunea Directă (V) |          |          |          |          |          |          |          |          |          |
|------------------|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                  | 0 ore (Inițial)       | 1000 ore | 2000 ore | 3000 ore | 4000 ore | 5000 ore | 6000 ore | 7000 ore | 8000 ore | 9000 ore |
| 1                | 2.714                 | 2.735    | 2.734    | 2.736    | 2.737    | 2.736    | 2.741    | 2.733    | 2.738    | 2.734    |
| 2                | 2.719                 | 2.725    | 2.725    | 2.725    | 2.725    | 2.724    | 2.728    | 2.723    | 2.728    | 2.744    |
| 3                | 2.716                 | 2.717    | 2.715    | 2.717    | 2.715    | 2.715    | 2.721    | 2.727    | 2.725    | 2.726    |
| 4                | 2.731                 | 2.728    | 2.726    | 2.727    | 2.727    | 2.727    | 2.730    | 2.727    | 2.742    | 2.738    |
| 5                | 2.733                 | 2.712    | 2.711    | 2.712    | 2.712    | 2.713    | 2.717    | 2.731    | 2.723    | 2.743    |
| 6                | 2.717                 | 2.730    | 2.728    | 2.730    | 2.729    | 2.729    | 2.732    | 2.738    | 2.735    | 2.739    |
| 7                | 2.717                 | 2.723    | 2.720    | 2.722    | 2.722    | 2.722    | 2.724    | 2.734    | 2.720    | 2.743    |
| 8                | 2.726                 | 2.730    | 2.728    | 2.729    | 2.730    | 2.730    | 2.731    | 2.731    | 2.735    | 2.734    |
| 9                | 2.731                 | 2.730    | 2.729    | 2.730    | 2.730    | 2.731    | 2.734    | 2.707    | 2.721    | 2.725    |
| 10               | 2.728                 | 2.732    | 2.732    | 2.734    | 2.732    | 2.733    | 2.736    | 2.720    | 2.739    | 2.732    |
| 11               | 2.717                 | 2.724    | 2.724    | 2.725    | 2.724    | 2.725    | 2.728    | 2.711    | 2.730    | 2.735    |
| 12               | 2.714                 | 2.738    | 2.737    | 2.737    | 2.737    | 2.738    | 2.742    | 2.742    | 2.726    | 2.737    |
| 13               | 2.717                 | 2.711    | 2.711    | 2.711    | 2.711    | 2.711    | 2.714    | 2.720    | 2.725    | 2.739    |
| 14               | 2.721                 | 2.721    | 2.720    | 2.722    | 2.721    | 2.719    | 2.725    | 2.722    | 2.738    | 2.738    |
| 15               | 2.721                 | 2.719    | 2.718    | 2.719    | 2.719    | 2.718    | 2.724    | 2.727    | 2.730    | 2.746    |
| 16               | 2.717                 | 2.715    | 2.714    | 2.714    | 2.717    | 2.714    | 2.721    | 2.738    | 2.739    | 2.729    |
| 17               | 2.722                 | 2.721    | 2.722    | 2.720    | 2.720    | 2.721    | 2.726    | 2.702    | 2.735    | 2.724    |
| 18               | 2.745                 | 2.721    | 2.721    | 2.721    | 2.722    | 2.721    | 2.728    | 2.731    | 2.722    | 2.740    |
| 19               | 2.731                 | 2.713    | 2.712    | 2.712    | 2.712    | 2.712    | 2.719    | 2.741    | 2.717    | 2.731    |
| 20               | 2.721                 | 2.725    | 2.726    | 2.725    | 2.725    | 2.725    | 2.731    | 2.736    | 2.729    | 2.722    |
| 21               | 2.733                 | 2.720    | 2.719    | 2.718    | 2.720    | 2.718    | 2.725    | 2.729    | 2.729    | 2.724    |
| 22               | 2.726                 | 2.733    | 2.733    | 2.733    | 2.733    | 2.734    | 2.741    | 2.732    | 2.727    | 2.741    |
| 23               | 2.731                 | 2.736    | 2.736    | 2.736    | 2.736    | 2.736    | 2.743    | 2.737    | 2.732    | 2.739    |
| 24               | 2.723                 | 2.721    | 2.722    | 2.721    | 2.721    | 2.720    | 2.725    | 2.724    | 2.725    | 2.726    |
| 25               | 2.720                 | 2.717    | 2.717    | 2.714    | 2.717    | 2.714    | 2.721    | 2.737    | 2.723    | 2.723    |
| Medie            | 2.724                 | 2.724    | 2.723    | 2.724    | 2.724    | 2.723    | 2.728    | 2.728    | 2.729    | 2.734    |
| Mediană          | 2.721                 | 2.723    | 2.722    | 2.722    | 2.722    | 2.722    | 2.728    | 2.731    | 2.729    | 2.735    |
| Abatere standard | 0.008                 | 0.008    | 0.008    | 0.008    | 0.008    | 0.008    | 0.008    | 0.010    | 0.007    | 0.007    |
| Min.             | 2.714                 | 2.711    | 2.711    | 2.711    | 2.711    | 2.711    | 2.714    | 2.702    | 2.717    | 2.722    |
| Max.             | 2.745                 | 2.738    | 2.737    | 2.737    | 2.737    | 2.738    | 2.743    | 2.742    | 2.742    | 2.746    |

| Nr.              | Tensiunea Directă (V) |           |           |           |           |           |           |           |
|------------------|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                  | 10000 ore             | 11000 ore | 12000 ore | 13000 ore | 14000 ore | 15000 ore | 16000 ore | 17000 ore |
| 1                | 2.741                 | 2.746     | 2.741     | 2.739     | 2.741     | 2.739     | 2.739     | 2.743     |
| 2                | 2.729                 | 2.733     | 2.731     | 2.727     | 2.731     | 2.729     | 2.727     | 2.731     |
| 3                | 2.721                 | 2.721     | 2.723     | 2.719     | 2.723     | 2.721     | 2.721     | 2.725     |
| 4                | 2.731                 | 2.735     | 2.737     | 2.731     | 2.733     | 2.731     | 2.731     | 2.735     |
| 5                | 2.716                 | 2.727     | 2.719     | 2.716     | 2.719     | 2.719     | 2.714     | 2.716     |
| 6                | 2.735                 | 2.737     | 2.733     | 2.733     | 2.737     | 2.733     | 2.731     | 2.733     |
| 7                | 2.729                 | 2.735     | 2.729     | 2.725     | 2.727     | 2.725     | 2.725     | 2.729     |
| 8                | 2.735                 | 2.739     | 2.735     | 2.733     | 2.735     | 2.733     | 2.731     | 2.735     |
| 9                | 2.733                 | 2.746     | 2.737     | 2.735     | 2.735     | 2.733     | 2.733     | 2.744     |
| 10               | 2.739                 | 2.750     | 2.737     | 2.737     | 2.739     | 2.737     | 2.737     | 2.741     |
| 11               | 2.731                 | 2.752     | 2.733     | 2.729     | 2.731     | 2.727     | 2.727     | 2.729     |
| 12               | 2.741                 | 2.758     | 2.744     | 2.741     | 2.744     | 2.741     | 2.739     | 2.741     |
| 13               | 2.716                 | 2.727     | 2.716     | 2.716     | 2.719     | 2.714     | 2.716     | 2.714     |
| 14               | 2.725                 | 2.731     | 2.727     | 2.725     | 2.729     | 2.721     | 2.727     | 2.725     |
| 15               | 2.723                 | 2.739     | 2.727     | 2.721     | 2.727     | 2.721     | 2.725     | 2.727     |
| 16               | 2.719                 | 2.723     | 2.723     | 2.719     | 2.721     | 2.719     | 2.721     | 2.716     |
| 17               | 2.725                 | 2.744     | 2.733     | 2.725     | 2.731     | 2.723     | 2.725     | 2.725     |
| 18               | 2.725                 | 2.733     | 2.727     | 2.727     | 2.727     | 2.723     | 2.727     | 2.727     |
| 19               | 2.721                 | 2.725     | 2.716     | 2.716     | 2.719     | 2.714     | 2.719     | 2.714     |
| 20               | 2.733                 | 2.737     | 2.731     | 2.731     | 2.731     | 2.729     | 2.731     | 2.731     |
| 21               | 2.725                 | 2.737     | 2.725     | 2.723     | 2.725     | 2.723     | 2.725     | 2.725     |
| 22               | 2.737                 | 2.746     | 2.739     | 2.741     | 2.741     | 2.735     | 2.737     | 2.737     |
| 23               | 2.741                 | 2.750     | 2.741     | 2.741     | 2.746     | 2.737     | 2.739     | 2.739     |
| 24               | 2.725                 | 2.727     | 2.725     | 2.727     | 2.729     | 2.725     | 2.725     | 2.725     |
| 25               | 2.721                 | 2.725     | 2.721     | 2.721     | 2.727     | 2.719     | 2.727     | 2.719     |
| Medie            | 2.729                 | 2.737     | 2.730     | 2.728     | 2.731     | 2.727     | 2.728     | 2.729     |
| Mediană          | 2.729                 | 2.737     | 2.731     | 2.727     | 2.731     | 2.725     | 2.727     | 2.729     |
| Abatere standard | 0.008                 | 0.010     | 0.008     | 0.008     | 0.008     | 0.008     | 0.007     | 0.009     |
| Min.             | 2.716                 | 2.721     | 2.716     | 2.716     | 2.719     | 2.714     | 2.714     | 2.714     |
| Max.             | 2.741                 | 2.758     | 2.744     | 2.741     | 2.746     | 2.741     | 2.739     | 2.744     |

### 3.5 Set de Date 1, 55°C, 100mA (Lungimea de Undă)

| Nr.              | Lungimea de Undă (nm) |          |          |          |          |          |          |          |          |          |
|------------------|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                  | 0 ore (Inițial)       | 1000 ore | 2000 ore | 3000 ore | 4000 ore | 5000 ore | 6000 ore | 7000 ore | 8000 ore | 9000 ore |
| 1                | 602.9                 | 603.6    | 601.3    | 605.2    | 605.2    | 604.9    | 603.7    | 605.2    | 604.8    | 602.9    |
| 2                | 603.4                 | 604.0    | 604.4    | 604.1    | 603.0    | 604.8    | 602.8    | 604.1    | 601.6    | 601.7    |
| 3                | 603.3                 | 603.7    | 601.7    | 604.8    | 603.3    | 605.2    | 604.9    | 604.0    | 603.8    | 604.7    |
| 4                | 603.3                 | 602.9    | 605.2    | 604.0    | 602.9    | 601.7    | 604.8    | 604.9    | 602.9    | 602.5    |
| 5                | 602.8                 | 604.8    | 602.9    | 605.2    | 604.0    | 602.9    | 601.3    | 601.6    | 604.0    | 603.7    |
| 6                | 602.8                 | 605.2    | 602.5    | 604.4    | 602.9    | 602.9    | 604.8    | 603.3    | 604.8    | 603.2    |
| 7                | 602.9                 | 604.8    | 602.5    | 605.2    | 602.9    | 606.4    | 602.9    | 605.2    | 605.1    | 603.2    |
| 8                | 601.3                 | 604.0    | 603.8    | 601.3    | 602.8    | 603.3    | 601.3    | 601.6    | 603.7    | 602.1    |
| 9                | 602.8                 | 605.2    | 603.6    | 603.6    | 604.8    | 602.8    | 606.0    | 603.4    | 604.0    | 604.0    |
| 10               | 603.6                 | 602.7    | 603.4    | 604.8    | 605.2    | 603.3    | 601.7    | 604.1    | 602.8    | 601.3    |
| 11               | 605.2                 | 605.4    | 605.6    | 605.2    | 607.1    | 605.0    | 604.9    | 604.0    | 604.9    | 603.4    |
| 12               | 605.2                 | 603.7    | 601.9    | 604.8    | 603.2    | 602.0    | 604.4    | 601.7    | 602.8    | 602.9    |
| 13               | 602.8                 | 602.6    | 604.0    | 602.9    | 601.7    | 605.6    | 605.6    | 606.0    | 602.9    | 603.8    |
| 14               | 602.8                 | 602.5    | 605.2    | 601.3    | 601.3    | 605.2    | 604.1    | 601.7    | 601.7    | 604.0    |
| 15               | 604.8                 | 602.9    | 606.0    | 603.3    | 601.7    | 605.2    | 605.4    | 604.0    | 602.9    | 604.0    |
| 16               | 604.0                 | 605.6    | 603.0    | 605.9    | 602.9    | 602.5    | 604.8    | 605.1    | 604.1    | 602.9    |
| 17               | 604.0                 | 602.8    | 603.3    | 602.7    | 602.9    | 602.5    | 605.5    | 602.0    | 601.6    | 602.8    |
| 18               | 602.9                 | 601.7    | 604.4    | 601.7    | 602.5    | 602.9    | 602.9    | 601.7    | 602.9    | 600.9    |
| 19               | 602.1                 | 604.8    | 604.0    | 604.1    | 602.1    | 602.0    | 602.9    | 603.6    | 602.9    | 601.7    |
| 20               | 602.5                 | 605.6    | 604.0    | 603.7    | 603.2    | 604.0    | 604.9    | 604.0    | 604.8    | 602.6    |
| 21               | 604.4                 | 604.4    | 604.1    | 600.6    | 604.0    | 604.9    | 605.2    | 604.1    | 602.9    | 601.6    |
| 22               | 604.1                 | 604.9    | 602.9    | 605.2    | 604.4    | 604.4    | 602.9    | 602.5    | 602.8    | 604.1    |
| 23               | 603.9                 | 603.3    | 604.8    | 604.9    | 603.7    | 604.1    | 603.2    | 601.4    | 601.7    | 604.0    |
| 24               | 604.0                 | 602.5    | 605.9    | 601.6    | 604.1    | 603.7    | 602.1    | 602.8    | 602.5    | 603.3    |
| 25               | 602.5                 | 602.8    | 601.6    | 605.2    | 602.9    | 604.0    | 603.8    | 603.6    | 602.9    | 601.7    |
| Medie            | 603.4                 | 603.9    | 603.7    | 603.8    | 603.4    | 603.8    | 603.9    | 603.4    | 603.3    | 602.9    |
| Mediană          | 603.3                 | 603.7    | 603.8    | 604.1    | 603.0    | 604.0    | 604.1    | 603.6    | 602.9    | 602.9    |
| Abatere standard | 0.9                   | 1.2      | 1.3      | 1.5      | 1.3      | 1.3      | 1.4      | 1.3      | 1.1      | 1.0      |
| Min.             | 601.3                 | 601.7    | 601.3    | 600.6    | 601.3    | 601.7    | 601.3    | 601.4    | 601.6    | 600.9    |
| Max.             | 605.2                 | 605.6    | 606.0    | 605.9    | 607.1    | 606.4    | 606.0    | 606.0    | 605.1    | 604.7    |



| Nr.              | Lungimea de Undă (nm) |           |           |           |           |           |           |           |
|------------------|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                  | 10000 ore             | 11000 ore | 12000 ore | 13000 ore | 14000 ore | 15000 ore | 16000 ore | 17000 ore |
| 1                | 603.2                 | 604.4     | 603.3     | 604.1     | 605.2     | 603.7     | 604.1     | 603.6     |
| 2                | 605.6                 | 602.1     | 604.8     | 604.4     | 603.6     | 603.2     | 604.8     | 603.2     |
| 3                | 603.3                 | 604.7     | 603.3     | 603.3     | 603.4     | 604.0     | 604.0     | 603.7     |
| 4                | 603.3                 | 604.0     | 604.0     | 604.4     | 601.3     | 604.1     | 604.8     | 604.4     |
| 5                | 603.2                 | 601.7     | 601.4     | 603.3     | 603.6     | 603.6     | 602.1     | 603.2     |
| 6                | 602.8                 | 603.6     | 603.3     | 604.4     | 601.5     | 604.6     | 604.0     | 604.0     |
| 7                | 603.2                 | 604.8     | 602.3     | 604.0     | 601.7     | 602.5     | 604.8     | 605.6     |
| 8                | 603.3                 | 603.2     | 603.3     | 603.3     | 604.0     | 602.5     | 603.3     | 602.4     |
| 9                | 604.4                 | 603.6     | 604.8     | 605.2     | 602.8     | 604.8     | 604.8     | 604.9     |
| 10               | 601.9                 | 604.8     | 603.5     | 604.4     | 604.8     | 601.7     | 603.2     | 604.8     |
| 11               | 603.3                 | 602.4     | 604.0     | 603.3     | 603.2     | 602.7     | 604.8     | 605.6     |
| 12               | 603.0                 | 604.8     | 602.1     | 603.6     | 602.9     | 604.8     | 604.1     | 603.3     |
| 13               | 604.0                 | 604.4     | 602.5     | 604.8     | 602.4     | 605.9     | 603.3     | 604.8     |
| 14               | 605.2                 | 604.0     | 605.6     | 603.6     | 600.9     | 603.3     | 604.9     | 601.3     |
| 15               | 601.9                 | 603.3     | 602.5     | 601.7     | 602.3     | 603.5     | 603.3     | 604.0     |
| 16               | 603.2                 | 603.5     | 604.0     | 603.3     | 603.3     | 605.2     | 603.3     | 604.2     |
| 17               | 604.0                 | 600.6     | 603.3     | 604.8     | 604.0     | 603.3     | 604.7     | 603.6     |
| 18               | 602.9                 | 603.2     | 602.3     | 603.2     | 603.7     | 601.3     | 603.2     | 602.3     |
| 19               | 603.3                 | 603.3     | 603.3     | 604.0     | 602.8     | 602.5     | 603.8     | 601.9     |
| 20               | 604.4                 | 603.3     | 604.4     | 605.6     | 602.5     | 604.8     | 604.8     | 602.5     |
| 21               | 604.0                 | 603.5     | 604.8     | 604.6     | 603.3     | 601.7     | 601.3     | 603.8     |
| 22               | 602.1                 | 604.8     | 602.4     | 603.2     | 604.9     | 602.0     | 604.4     | 604.8     |
| 23               | 603.3                 | 603.5     | 604.0     | 603.3     | 604.9     | 603.2     | 601.3     | 604.0     |
| 24               | 603.5                 | 601.7     | 600.9     | 602.1     | 602.4     | 603.6     | 604.6     | 603.3     |
| 25               | 603.2                 | 603.3     | 601.3     | 603.4     | 604.0     | 604.2     | 603.3     | 601.7     |
| Medie            | 603.4                 | 603.5     | 603.3     | 603.8     | 603.2     | 603.5     | 603.8     | 603.6     |
| Mediană          | 603.3                 | 603.5     | 603.3     | 603.6     | 603.3     | 603.5     | 604.0     | 603.7     |
| Abatere standard | 0.9                   | 1.1       | 1.2       | 0.9       | 1.2       | 1.2       | 1.1       | 1.2       |
| Min.             | 601.9                 | 600.6     | 600.9     | 601.7     | 600.9     | 601.3     | 601.3     | 601.3     |
| Max.             | 605.6                 | 604.8     | 605.6     | 605.6     | 605.2     | 605.9     | 604.9     | 605.6     |

### 3.6 Set de Date 2, 85°C, 100mA (Menținerea Lumenilor)

| Nr.              | Φ(lm)           | Menținerea Lumenilor (%) |          |          |          |          |          |          |          |          |
|------------------|-----------------|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
|                  | 0 ore (Inițial) | 1000 ore                 | 2000 ore | 3000 ore | 4000 ore | 5000 ore | 6000 ore | 7000 ore | 8000 ore | 9000 ore |
| 26               | 58.43           | 99.97                    | 99.91    | 99.81    | 99.76    | 99.71    | 99.62    | 99.57    | 99.47    | 99.37    |
| 27               | 58.23           | 100.15                   | 100.10   | 100.03   | 99.95    | 99.90    | 99.79    | 99.61    | 99.54    | 99.52    |
| 28               | 57.45           | 100.03                   | 99.91    | 99.81    | 99.70    | 99.60    | 99.51    | 99.46    | 99.37    | 99.27    |
| 29               | 57.93           | 100.19                   | 100.16   | 100.05   | 99.84    | 99.72    | 99.53    | 99.46    | 99.36    | 99.19    |
| 30               | 56.73           | 99.91                    | 99.72    | 99.56    | 99.37    | 99.21    | 98.98    | 98.77    | 98.59    | 98.43    |
| 31               | 56.56           | 100.11                   | 100.05   | 99.96    | 99.95    | 99.86    | 99.75    | 99.72    | 99.72    | 99.59    |
| 32               | 56.12           | 100.21                   | 100.09   | 99.95    | 99.91    | 99.95    | 99.79    | 99.71    | 99.64    | 99.59    |
| 33               | 57.67           | 100.14                   | 100.05   | 100.03   | 99.86    | 99.71    | 99.53    | 99.43    | 99.48    | 99.32    |
| 34               | 58.03           | 100.10                   | 100.14   | 100.03   | 99.95    | 99.90    | 99.76    | 99.66    | 99.36    | 99.28    |
| 35               | 58.08           | 100.09                   | 99.95    | 99.79    | 99.72    | 99.66    | 99.62    | 99.54    | 99.47    | 99.36    |
| 36               | 57.36           | 100.10                   | 99.98    | 99.91    | 99.79    | 99.67    | 99.51    | 99.37    | 99.32    | 99.13    |
| 37               | 57.68           | 100.05                   | 100.03   | 99.97    | 99.84    | 99.71    | 99.62    | 99.48    | 99.38    | 99.29    |
| 38               | 57.59           | 100.16                   | 100.09   | 99.97    | 99.95    | 99.90    | 99.81    | 99.70    | 99.60    | 99.51    |
| 39               | 58.03           | 100.16                   | 100.03   | 99.97    | 99.95    | 99.86    | 99.72    | 99.66    | 99.57    | 99.52    |
| 40               | 57.14           | 100.04                   | 99.95    | 99.84    | 99.72    | 99.61    | 99.53    | 99.42    | 99.37    | 99.26    |
| 41               | 57.31           | 100.05                   | 99.91    | 99.84    | 99.76    | 99.67    | 99.60    | 99.53    | 99.42    | 99.32    |
| 42               | 57.09           | 100.05                   | 99.86    | 99.75    | 99.61    | 99.51    | 99.35    | 99.18    | 99.04    | 98.84    |
| 43               | 58.42           | 100.03                   | 99.90    | 99.79    | 99.66    | 99.54    | 99.47    | 99.38    | 99.30    | 99.20    |
| 44               | 56.03           | 100.04                   | 99.86    | 99.70    | 99.55    | 99.41    | 99.30    | 99.21    | 99.07    | 98.91    |
| 45               | 57.47           | 100.14                   | 100.03   | 99.91    | 99.76    | 99.67    | 99.53    | 99.46    | 99.29    | 99.16    |
| 46               | 57.09           | 99.84                    | 99.70    | 99.60    | 99.46    | 99.35    | 99.18    | 99.02    | 98.91    | 98.79    |
| 47               | 56.61           | 100.04                   | 99.89    | 99.79    | 99.65    | 99.52    | 99.36    | 99.17    | 99.06    | 98.90    |
| 48               | 57.65           | 100.09                   | 99.97    | 99.90    | 99.79    | 99.62    | 99.51    | 99.36    | 99.22    | 99.13    |
| 49               | 57.84           | 100.19                   | 99.95    | 99.72    | 99.48    | 99.38    | 99.29    | 99.19    | 99.14    | 99.08    |
| 50               | 58.40           | 100.14                   | 99.86    | 99.54    | 99.30    | 99.23    | 99.28    | 99.28    | 99.04    | 99.04    |
| Medie            | 57.48           | 100.08                   | 99.96    | 99.85    | 99.73    | 99.63    | 99.52    | 99.41    | 99.31    | 99.20    |
| Mediană          | 57.59           | 100.09                   | 99.95    | 99.84    | 99.76    | 99.67    | 99.53    | 99.46    | 99.36    | 99.26    |
| Abatere standard | 0.68            | 0.0870                   | 0.1168   | 0.1477   | 0.1867   | 0.2056   | 0.2085   | 0.2319   | 0.2556   | 0.2754   |
| Min.             | 56.03           | 99.84                    | 99.70    | 99.54    | 99.30    | 99.21    | 98.98    | 98.77    | 98.59    | 98.43    |
| Max.             | 58.43           | 100.21                   | 100.16   | 100.05   | 99.95    | 99.95    | 99.81    | 99.72    | 99.72    | 99.59    |

| Nr.              | Menținerea Lumenilor (%) |           |           |           |           |           |           |           |
|------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                  | 10000 ore                | 11000 ore | 12000 ore | 13000 ore | 14000 ore | 15000 ore | 16000 ore | 17000 ore |
| 26               | 99.28                    | 99.20     | 99.06     | 98.96     | 98.80     | 98.68     | 98.58     | 98.51     |
| 27               | 99.33                    | 99.14     | 98.87     | 98.56     | 98.28     | 98.20     | 98.23     | 98.01     |
| 28               | 99.29                    | 99.04     | 98.83     | 98.78     | 98.66     | 98.59     | 98.49     | 98.40     |
| 29               | 99.00                    | 98.84     | 98.62     | 98.57     | 98.41     | 98.36     | 98.24     | 98.22     |
| 30               | 98.52                    | 98.59     | 98.63     | 98.68     | 98.59     | 98.71     | 98.73     | 98.77     |
| 31               | 99.47                    | 99.45     | 99.40     | 99.31     | 99.22     | 99.28     | 99.12     | 99.15     |
| 32               | 99.70                    | 99.79     | 99.64     | 99.47     | 99.45     | 99.36     | 99.39     | 99.31     |
| 33               | 99.29                    | 99.38     | 99.36     | 99.36     | 99.29     | 99.13     | 99.22     | 99.22     |
| 34               | 99.17                    | 99.28     | 99.28     | 99.24     | 99.19     | 98.98     | 98.95     | 98.81     |
| 35               | 99.24                    | 99.23     | 99.10     | 99.09     | 99.00     | 98.93     | 98.90     | 98.90     |
| 36               | 98.94                    | 98.83     | 98.74     | 98.78     | 98.66     | 98.66     | 98.55     | 98.45     |
| 37               | 99.13                    | 98.99     | 98.94     | 98.54     | 98.56     | 98.54     | 98.37     | 98.27     |
| 38               | 99.29                    | 99.18     | 99.13     | 98.84     | 98.75     | 98.70     | 98.59     | 98.37     |
| 39               | 99.52                    | 99.28     | 99.03     | 98.98     | 98.86     | 98.76     | 98.74     | 98.50     |
| 40               | 99.16                    | 99.04     | 98.97     | 98.88     | 98.79     | 98.72     | 98.60     | 98.49     |
| 41               | 99.18                    | 99.09     | 98.99     | 98.88     | 98.78     | 98.66     | 98.59     | 98.50     |
| 42               | 98.79                    | 98.65     | 98.58     | 98.44     | 98.35     | 98.25     | 98.14     | 97.95     |
| 43               | 99.09                    | 98.96     | 98.80     | 98.68     | 98.58     | 98.48     | 98.39     | 98.29     |
| 44               | 98.95                    | 98.71     | 98.71     | 98.52     | 98.38     | 98.36     | 98.13     | 98.11     |
| 45               | 99.08                    | 98.94     | 98.78     | 98.78     | 98.64     | 98.61     | 98.35     | 98.29     |
| 46               | 98.83                    | 98.58     | 98.69     | 98.55     | 98.48     | 98.25     | 98.09     | 98.04     |
| 47               | 98.71                    | 98.73     | 98.76     | 98.71     | 98.59     | 98.53     | 98.53     | 98.62     |
| 48               | 99.10                    | 98.98     | 98.92     | 98.80     | 98.84     | 98.66     | 98.46     | 98.54     |
| 49               | 98.89                    | 98.74     | 98.70     | 98.65     | 98.46     | 98.27     | 98.24     | 98.27     |
| 50               | 98.96                    | 98.99     | 98.80     | 98.56     | 98.39     | 98.15     | 98.15     | 98.20     |
| Medie            | 99.12                    | 99.02     | 98.93     | 98.82     | 98.72     | 98.63     | 98.55     | 98.49     |
| Mediană          | 99.13                    | 98.99     | 98.87     | 98.78     | 98.66     | 98.66     | 98.53     | 98.45     |
| Abatere standard | 0.2640                   | 0.2889    | 0.2688    | 0.2828    | 0.3111    | 0.3218    | 0.3513    | 0.3669    |
| Min.             | 98.52                    | 98.58     | 98.58     | 98.44     | 98.28     | 98.15     | 98.09     | 97.95     |
| Max.             | 99.70                    | 99.79     | 99.64     | 99.47     | 99.45     | 99.36     | 99.39     | 99.31     |

### 3.7 Set de Date 2, 85°C, 100mA (400-700nm Menținerea Fluxului de Fotoni)

| Nr.              | $\Phi_p (\mu\text{mol} \times \text{s}^{-1})$ | 400-700nm Menținerea Fluxului de Fotoni (%) |          |          |          |          |          |          |          |          |
|------------------|-----------------------------------------------|---------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
|                  | 0 ore (Inițial)                               | 1000 ore                                    | 2000 ore | 3000 ore | 4000 ore | 5000 ore | 6000 ore | 7000 ore | 8000 ore | 9000 ore |
| 26               | 0.6046                                        | 100.41                                      | 100.28   | 99.97    | 100.00   | 99.57    | 99.55    | 99.37    | 99.07    | 98.88    |
| 27               | 0.6042                                        | 100.05                                      | 99.62    | 99.65    | 99.57    | 99.29    | 99.07    | 98.84    | 98.58    | 98.54    |
| 28               | 0.6006                                        | 99.90                                       | 99.82    | 99.80    | 99.78    | 99.77    | 99.75    | 99.42    | 99.15    | 98.90    |
| 29               | 0.6019                                        | 100.05                                      | 99.88    | 99.44    | 99.10    | 99.00    | 98.90    | 98.80    | 98.69    | 98.59    |
| 30               | 0.5907                                        | 100.15                                      | 99.78    | 99.71    | 99.70    | 99.68    | 99.66    | 99.39    | 99.07    | 98.78    |
| 31               | 0.5885                                        | 99.69                                       | 99.63    | 99.51    | 99.37    | 99.24    | 99.13    | 99.01    | 98.90    | 98.79    |
| 32               | 0.5895                                        | 100.15                                      | 99.73    | 99.54    | 99.41    | 99.22    | 99.05    | 98.90    | 98.71    | 98.58    |
| 33               | 0.5974                                        | 99.85                                       | 99.67    | 99.35    | 98.96    | 98.48    | 98.24    | 98.23    | 98.13    | 98.09    |
| 34               | 0.6012                                        | 99.38                                       | 99.10    | 98.99    | 98.95    | 98.84    | 98.75    | 98.64    | 98.54    | 98.40    |
| 35               | 0.6045                                        | 99.69                                       | 99.50    | 99.17    | 98.94    | 98.83    | 98.68    | 98.59    | 98.48    | 98.38    |
| 36               | 0.5946                                        | 99.80                                       | 99.83    | 99.76    | 99.75    | 99.73    | 99.65    | 99.58    | 99.28    | 99.19    |
| 37               | 0.6023                                        | 100.15                                      | 100.03   | 100.02   | 99.93    | 99.92    | 99.85    | 99.67    | 99.47    | 99.22    |
| 38               | 0.6005                                        | 99.90                                       | 99.88    | 99.92    | 99.78    | 99.77    | 99.75    | 99.63    | 99.53    | 99.40    |
| 39               | 0.6003                                        | 99.53                                       | 99.30    | 98.97    | 98.75    | 98.52    | 98.23    | 98.22    | 98.17    | 98.12    |
| 40               | 0.5916                                        | 100.20                                      | 100.19   | 100.12   | 100.10   | 100.08   | 100.02   | 99.78    | 99.43    | 99.19    |
| 41               | 0.5989                                        | 99.95                                       | 99.62    | 99.23    | 98.91    | 98.78    | 98.51    | 98.50    | 98.43    | 98.40    |
| 42               | 0.5902                                        | 99.85                                       | 99.78    | 99.71    | 99.37    | 99.36    | 99.14    | 99.07    | 99.00    | 98.92    |
| 43               | 0.6009                                        | 99.95                                       | 99.82    | 99.53    | 99.27    | 98.98    | 99.02    | 98.93    | 98.79    | 98.69    |
| 44               | 0.5852                                        | 100.05                                      | 99.97    | 99.81    | 99.74    | 99.52    | 99.35    | 99.21    | 99.11    | 98.91    |
| 45               | 0.5990                                        | 100.03                                      | 99.93    | 99.92    | 99.90    | 99.88    | 99.85    | 99.58    | 99.43    | 99.10    |
| 46               | 0.5961                                        | 99.80                                       | 99.35    | 99.33    | 98.99    | 98.88    | 98.81    | 98.74    | 98.64    | 98.52    |
| 47               | 0.5867                                        | 99.80                                       | 99.57    | 99.52    | 99.45    | 99.34    | 99.15    | 99.03    | 98.93    | 98.84    |
| 48               | 0.5967                                        | 99.55                                       | 99.16    | 99.15    | 99.08    | 99.01    | 98.94    | 98.86    | 98.81    | 98.73    |
| 49               | 0.5986                                        | 99.90                                       | 99.88    | 99.85    | 99.82    | 99.75    | 99.70    | 99.57    | 99.47    | 99.38    |
| 50               | 0.6028                                        | 99.88                                       | 99.77    | 99.65    | 99.42    | 99.24    | 99.15    | 99.02    | 98.81    | 98.66    |
| Medie            | 0.5971                                        | 99.91                                       | 99.72    | 99.58    | 99.44    | 99.31    | 99.20    | 99.06    | 98.90    | 98.77    |
| Mediană          | 0.5989                                        | 99.90                                       | 99.78    | 99.65    | 99.42    | 99.29    | 99.14    | 99.02    | 98.90    | 98.78    |
| Abatere standard | 0.0059                                        | 0.23                                        | 0.29     | 0.32     | 0.40     | 0.45     | 0.50     | 0.45     | 0.40     | 0.36     |
| Min.             | 0.5852                                        | 99.38                                       | 99.10    | 98.97    | 98.75    | 98.48    | 98.23    | 98.22    | 98.13    | 98.09    |
| Max.             | 0.6046                                        | 100.41                                      | 100.28   | 100.12   | 100.10   | 100.08   | 100.02   | 99.78    | 99.53    | 99.40    |

| Nr.              | 400-700nm Menținerea Fluxului de Fotoni (%) |           |           |           |           |           |           |           |
|------------------|---------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                  | 10000 ore                                   | 11000 ore | 12000 ore | 13000 ore | 14000 ore | 15000 ore | 16000 ore | 17000 ore |
| 26               | 98.83                                       | 98.54     | 98.45     | 98.36     | 98.28     | 98.20     | 98.06     | 97.95     |
| 27               | 98.49                                       | 98.31     | 98.21     | 98.06     | 97.98     | 97.85     | 97.77     | 97.70     |
| 28               | 98.75                                       | 98.57     | 98.47     | 98.38     | 98.24     | 98.15     | 98.09     | 97.97     |
| 29               | 98.50                                       | 98.39     | 98.29     | 98.19     | 98.07     | 97.96     | 97.84     | 97.72     |
| 30               | 98.63                                       | 98.41     | 98.31     | 98.22     | 98.09     | 97.95     | 97.83     | 97.71     |
| 31               | 98.67                                       | 98.56     | 98.44     | 98.35     | 98.25     | 98.13     | 98.01     | 97.91     |
| 32               | 98.44                                       | 98.25     | 98.13     | 98.05     | 97.96     | 97.83     | 97.71     | 97.59     |
| 33               | 98.09                                       | 98.07     | 98.01     | 97.92     | 97.89     | 97.81     | 97.74     | 97.62     |
| 34               | 98.27                                       | 98.14     | 98.07     | 97.97     | 97.90     | 97.82     | 97.75     | 97.67     |
| 35               | 98.26                                       | 98.13     | 98.08     | 97.95     | 97.90     | 97.80     | 97.70     | 97.60     |
| 36               | 99.09                                       | 99.02     | 98.87     | 98.71     | 98.62     | 98.55     | 98.44     | 98.34     |
| 37               | 99.12                                       | 99.00     | 98.85     | 98.72     | 98.62     | 98.49     | 98.32     | 98.22     |
| 38               | 99.13                                       | 98.97     | 98.87     | 98.68     | 98.57     | 98.45     | 98.38     | 98.23     |
| 39               | 98.12                                       | 98.10     | 98.05     | 97.95     | 97.87     | 97.78     | 97.72     | 97.63     |
| 40               | 98.99                                       | 98.88     | 98.80     | 98.72     | 98.63     | 98.51     | 98.38     | 98.28     |
| 41               | 98.40                                       | 98.38     | 98.33     | 98.25     | 98.10     | 98.01     | 97.95     | 97.88     |
| 42               | 98.92                                       | 98.90     | 98.80     | 98.66     | 98.58     | 98.42     | 98.36     | 98.24     |
| 43               | 98.64                                       | 98.50     | 98.40     | 98.27     | 98.07     | 97.94     | 97.80     | 97.69     |
| 44               | 98.74                                       | 98.55     | 98.43     | 98.36     | 98.26     | 98.14     | 98.05     | 97.97     |
| 45               | 98.78                                       | 98.71     | 98.66     | 98.58     | 98.45     | 98.31     | 98.23     | 98.16     |
| 46               | 98.44                                       | 98.31     | 98.20     | 98.14     | 98.04     | 97.94     | 97.82     | 97.75     |
| 47               | 98.62                                       | 98.48     | 98.35     | 98.18     | 98.04     | 97.95     | 97.84     | 97.68     |
| 48               | 98.68                                       | 98.61     | 98.56     | 98.47     | 98.39     | 98.24     | 98.17     | 98.06     |
| 49               | 99.26                                       | 99.20     | 99.05     | 98.96     | 98.85     | 98.73     | 98.65     | 98.56     |
| 50               | 98.47                                       | 98.29     | 98.08     | 97.93     | 97.84     | 97.76     | 97.69     | 97.61     |
| Medie            | 98.65                                       | 98.53     | 98.43     | 98.32     | 98.22     | 98.11     | 98.01     | 97.91     |
| Mediană          | 98.64                                       | 98.50     | 98.40     | 98.27     | 98.10     | 98.01     | 97.95     | 97.88     |
| Abatere standard | 0.32                                        | 0.32      | 0.30      | 0.30      | 0.29      | 0.29      | 0.28      | 0.28      |
| Min.             | 98.09                                       | 98.07     | 98.01     | 97.92     | 97.84     | 97.76     | 97.69     | 97.59     |
| Max.             | 99.26                                       | 99.20     | 99.05     | 98.96     | 98.85     | 98.73     | 98.65     | 98.56     |

### 3.8 Set de Date 2, 85°C, 100mA (Modificarea Cromaticității)

| Nr.              | u'              | v'     | Modificarea Cromaticității ( $\Delta u'v'$ ) |          |          |          |          |          |          |          |          |
|------------------|-----------------|--------|----------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
|                  | 0 ore (Inițial) |        | 1000 ore                                     | 2000 ore | 3000 ore | 4000 ore | 5000 ore | 6000 ore | 7000 ore | 8000 ore | 9000 ore |
| 26               | 0.2529          | 0.5231 | 0.0001                                       | 0.0002   | 0.0003   | 0.0005   | 0.0007   | 0.0008   | 0.0009   | 0.0010   | 0.0013   |
| 27               | 0.2524          | 0.5215 | 0.0001                                       | 0.0003   | 0.0004   | 0.0005   | 0.0006   | 0.0008   | 0.0009   | 0.0011   | 0.0013   |
| 28               | 0.2536          | 0.5207 | 0.0001                                       | 0.0002   | 0.0004   | 0.0005   | 0.0006   | 0.0008   | 0.0011   | 0.0013   | 0.0014   |
| 29               | 0.2521          | 0.5216 | 0.0001                                       | 0.0002   | 0.0004   | 0.0005   | 0.0006   | 0.0007   | 0.0009   | 0.0011   | 0.0013   |
| 30               | 0.2527          | 0.5214 | 0.0002                                       | 0.0004   | 0.0005   | 0.0006   | 0.0007   | 0.0008   | 0.0009   | 0.0010   | 0.0012   |
| 31               | 0.2529          | 0.5219 | 0.0002                                       | 0.0004   | 0.0006   | 0.0007   | 0.0009   | 0.0010   | 0.0011   | 0.0012   | 0.0014   |
| 32               | 0.2536          | 0.5194 | 0.0001                                       | 0.0003   | 0.0005   | 0.0007   | 0.0009   | 0.0011   | 0.0012   | 0.0013   | 0.0014   |
| 33               | 0.2529          | 0.5226 | 0.0001                                       | 0.0003   | 0.0004   | 0.0007   | 0.0008   | 0.0009   | 0.0011   | 0.0013   | 0.0014   |
| 34               | 0.2532          | 0.5227 | 0.0001                                       | 0.0001   | 0.0004   | 0.0006   | 0.0008   | 0.0010   | 0.0012   | 0.0013   | 0.0015   |
| 35               | 0.2529          | 0.5213 | 0.0001                                       | 0.0003   | 0.0005   | 0.0006   | 0.0008   | 0.0009   | 0.0011   | 0.0013   | 0.0014   |
| 36               | 0.2527          | 0.5221 | 0.0001                                       | 0.0002   | 0.0004   | 0.0006   | 0.0007   | 0.0008   | 0.0010   | 0.0011   | 0.0012   |
| 37               | 0.2527          | 0.5206 | 0.0001                                       | 0.0002   | 0.0004   | 0.0005   | 0.0006   | 0.0008   | 0.0010   | 0.0013   | 0.0016   |
| 38               | 0.2532          | 0.5216 | 0.0001                                       | 0.0002   | 0.0004   | 0.0005   | 0.0007   | 0.0008   | 0.0010   | 0.0013   | 0.0016   |
| 39               | 0.2506          | 0.5218 | 0.0002                                       | 0.0004   | 0.0005   | 0.0006   | 0.0007   | 0.0008   | 0.0011   | 0.0013   | 0.0016   |
| 40               | 0.2516          | 0.5222 | 0.0001                                       | 0.0003   | 0.0004   | 0.0006   | 0.0007   | 0.0008   | 0.0010   | 0.0011   | 0.0014   |
| 41               | 0.2522          | 0.5198 | 0.0001                                       | 0.0004   | 0.0005   | 0.0006   | 0.0008   | 0.0009   | 0.0011   | 0.0012   | 0.0013   |
| 42               | 0.2531          | 0.5233 | 0.0001                                       | 0.0003   | 0.0004   | 0.0005   | 0.0006   | 0.0007   | 0.0010   | 0.0013   | 0.0016   |
| 43               | 0.2520          | 0.5241 | 0.0001                                       | 0.0003   | 0.0004   | 0.0006   | 0.0007   | 0.0008   | 0.0009   | 0.0011   | 0.0012   |
| 44               | 0.2531          | 0.5209 | 0.0001                                       | 0.0002   | 0.0004   | 0.0006   | 0.0007   | 0.0008   | 0.0009   | 0.0011   | 0.0012   |
| 45               | 0.2529          | 0.5212 | 0.0002                                       | 0.0004   | 0.0005   | 0.0007   | 0.0009   | 0.0011   | 0.0013   | 0.0014   | 0.0015   |
| 46               | 0.2526          | 0.5205 | 0.0002                                       | 0.0003   | 0.0005   | 0.0007   | 0.0009   | 0.0010   | 0.0012   | 0.0013   | 0.0014   |
| 47               | 0.2521          | 0.5217 | 0.0002                                       | 0.0003   | 0.0004   | 0.0006   | 0.0008   | 0.0010   | 0.0012   | 0.0014   | 0.0015   |
| 48               | 0.2520          | 0.5220 | 0.0002                                       | 0.0003   | 0.0004   | 0.0004   | 0.0004   | 0.0006   | 0.0008   | 0.0010   | 0.0013   |
| 49               | 0.2522          | 0.5226 | 0.0002                                       | 0.0004   | 0.0006   | 0.0007   | 0.0008   | 0.0009   | 0.0011   | 0.0013   | 0.0015   |
| 50               | 0.2526          | 0.5233 | 0.0001                                       | 0.0002   | 0.0004   | 0.0006   | 0.0007   | 0.0008   | 0.0011   | 0.0014   | 0.0016   |
| Medie            | 0.2526          | 0.5218 | 0.0001                                       | 0.0003   | 0.0004   | 0.0006   | 0.0007   | 0.0009   | 0.0010   | 0.0012   | 0.0014   |
| Mediană          | 0.2527          | 0.5217 | 0.0001                                       | 0.0003   | 0.0004   | 0.0006   | 0.0007   | 0.0008   | 0.0011   | 0.0013   | 0.0014   |
| Abatere standard | 0.0007          | 0.0011 | 0.0001                                       | 0.0001   | 0.0001   | 0.0001   | 0.0001   | 0.0001   | 0.0001   | 0.0001   | 0.0001   |
| Min.             | 0.2506          | 0.5194 | 0.0001                                       | 0.0001   | 0.0003   | 0.0004   | 0.0004   | 0.0006   | 0.0008   | 0.0010   | 0.0012   |
| Max.             | 0.2536          | 0.5241 | 0.0002                                       | 0.0004   | 0.0006   | 0.0007   | 0.0009   | 0.0011   | 0.0013   | 0.0014   | 0.0016   |

| Nr.              | Modificarea Cromaticității ( $\Delta u^*v^*$ ) |           |           |           |           |           |           |           |
|------------------|------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                  | 10000 ore                                      | 11000 ore | 12000 ore | 13000 ore | 14000 ore | 15000 ore | 16000 ore | 17000 ore |
| 26               | 0.0014                                         | 0.0015    | 0.0016    | 0.0016    | 0.0018    | 0.0019    | 0.0019    | 0.0020    |
| 27               | 0.0014                                         | 0.0016    | 0.0018    | 0.0019    | 0.0021    | 0.0021    | 0.0022    | 0.0023    |
| 28               | 0.0014                                         | 0.0016    | 0.0018    | 0.0019    | 0.0020    | 0.0021    | 0.0022    | 0.0023    |
| 29               | 0.0014                                         | 0.0016    | 0.0017    | 0.0018    | 0.0019    | 0.0020    | 0.0021    | 0.0022    |
| 30               | 0.0013                                         | 0.0013    | 0.0015    | 0.0016    | 0.0017    | 0.0018    | 0.0020    | 0.0021    |
| 31               | 0.0016                                         | 0.0018    | 0.0019    | 0.0021    | 0.0023    | 0.0024    | 0.0025    | 0.0025    |
| 32               | 0.0014                                         | 0.0016    | 0.0018    | 0.0020    | 0.0022    | 0.0024    | 0.0023    | 0.0025    |
| 33               | 0.0014                                         | 0.0015    | 0.0016    | 0.0017    | 0.0019    | 0.0021    | 0.0022    | 0.0023    |
| 34               | 0.0015                                         | 0.0016    | 0.0016    | 0.0017    | 0.0020    | 0.0021    | 0.0022    | 0.0024    |
| 35               | 0.0017                                         | 0.0018    | 0.0019    | 0.0019    | 0.0019    | 0.0020    | 0.0022    | 0.0022    |
| 36               | 0.0014                                         | 0.0016    | 0.0017    | 0.0019    | 0.0019    | 0.0020    | 0.0021    | 0.0021    |
| 37               | 0.0017                                         | 0.0016    | 0.0018    | 0.0018    | 0.0018    | 0.0018    | 0.0020    | 0.0021    |
| 38               | 0.0018                                         | 0.0017    | 0.0017    | 0.0019    | 0.0018    | 0.0019    | 0.0020    | 0.0022    |
| 39               | 0.0017                                         | 0.0017    | 0.0018    | 0.0020    | 0.0021    | 0.0022    | 0.0023    | 0.0021    |
| 40               | 0.0016                                         | 0.0018    | 0.0017    | 0.0018    | 0.0020    | 0.0021    | 0.0023    | 0.0023    |
| 41               | 0.0015                                         | 0.0017    | 0.0019    | 0.0020    | 0.0022    | 0.0024    | 0.0026    | 0.0026    |
| 42               | 0.0013                                         | 0.0014    | 0.0016    | 0.0017    | 0.0018    | 0.0020    | 0.0022    | 0.0023    |
| 43               | 0.0014                                         | 0.0015    | 0.0016    | 0.0018    | 0.0019    | 0.0021    | 0.0023    | 0.0023    |
| 44               | 0.0013                                         | 0.0014    | 0.0016    | 0.0019    | 0.0018    | 0.0019    | 0.0021    | 0.0025    |
| 45               | 0.0016                                         | 0.0017    | 0.0019    | 0.0021    | 0.0023    | 0.0024    | 0.0026    | 0.0028    |
| 46               | 0.0013                                         | 0.0014    | 0.0015    | 0.0017    | 0.0018    | 0.0020    | 0.0022    | 0.0024    |
| 47               | 0.0014                                         | 0.0013    | 0.0016    | 0.0017    | 0.0019    | 0.0021    | 0.0023    | 0.0025    |
| 48               | 0.0012                                         | 0.0013    | 0.0014    | 0.0012    | 0.0014    | 0.0017    | 0.0020    | 0.0021    |
| 49               | 0.0016                                         | 0.0018    | 0.0016    | 0.0017    | 0.0019    | 0.0019    | 0.0021    | 0.0023    |
| 50               | 0.0014                                         | 0.0016    | 0.0015    | 0.0016    | 0.0016    | 0.0016    | 0.0018    | 0.0019    |
| Medie            | 0.0015                                         | 0.0016    | 0.0017    | 0.0018    | 0.0019    | 0.0020    | 0.0022    | 0.0023    |
| Mediană          | 0.0014                                         | 0.0016    | 0.0017    | 0.0018    | 0.0019    | 0.0020    | 0.0022    | 0.0023    |
| Abatere standard | 0.0002                                         | 0.0002    | 0.0001    | 0.0002    | 0.0002    | 0.0002    | 0.0002    | 0.0002    |
| Min.             | 0.0012                                         | 0.0013    | 0.0014    | 0.0012    | 0.0014    | 0.0016    | 0.0018    | 0.0019    |
| Max.             | 0.0018                                         | 0.0018    | 0.0019    | 0.0021    | 0.0023    | 0.0024    | 0.0026    | 0.0028    |

### 3.9 Set de Date 2, 85°C, 100mA (Tensiunea Directă)

| Nr.              | Tensiunea Directă (V) |          |          |          |          |          |          |          |          |          |
|------------------|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                  | 0 ore (Inițial)       | 1000 ore | 2000 ore | 3000 ore | 4000 ore | 5000 ore | 6000 ore | 7000 ore | 8000 ore | 9000 ore |
| 26               | 2.734                 | 2.695    | 2.695    | 2.696    | 2.695    | 2.695    | 2.697    | 2.696    | 2.695    | 2.691    |
| 27               | 2.736                 | 2.696    | 2.697    | 2.697    | 2.697    | 2.697    | 2.699    | 2.702    | 2.689    | 2.694    |
| 28               | 2.716                 | 2.675    | 2.674    | 2.675    | 2.674    | 2.677    | 2.678    | 2.678    | 2.698    | 2.694    |
| 29               | 2.728                 | 2.688    | 2.687    | 2.689    | 2.690    | 2.690    | 2.693    | 2.678    | 2.680    | 2.663    |
| 30               | 2.718                 | 2.677    | 2.677    | 2.677    | 2.677    | 2.677    | 2.679    | 2.679    | 2.688    | 2.672    |
| 31               | 2.720                 | 2.679    | 2.679    | 2.680    | 2.679    | 2.680    | 2.681    | 2.686    | 2.686    | 2.695    |
| 32               | 2.711                 | 2.671    | 2.670    | 2.671    | 2.673    | 2.672    | 2.674    | 2.681    | 2.684    | 2.687    |
| 33               | 2.736                 | 2.695    | 2.694    | 2.696    | 2.696    | 2.695    | 2.697    | 2.690    | 2.701    | 2.701    |
| 34               | 2.722                 | 2.678    | 2.679    | 2.679    | 2.680    | 2.680    | 2.682    | 2.695    | 2.698    | 2.690    |
| 35               | 2.720                 | 2.679    | 2.679    | 2.681    | 2.681    | 2.681    | 2.682    | 2.689    | 2.687    | 2.678    |
| 36               | 2.721                 | 2.680    | 2.679    | 2.682    | 2.681    | 2.682    | 2.682    | 2.688    | 2.680    | 2.693    |
| 37               | 2.713                 | 2.672    | 2.673    | 2.673    | 2.675    | 2.674    | 2.675    | 2.691    | 2.685    | 2.677    |
| 38               | 2.725                 | 2.685    | 2.683    | 2.685    | 2.686    | 2.685    | 2.687    | 2.683    | 2.685    | 2.680    |
| 39               | 2.725                 | 2.685    | 2.683    | 2.686    | 2.686    | 2.685    | 2.686    | 2.683    | 2.684    | 2.689    |
| 40               | 2.732                 | 2.691    | 2.688    | 2.692    | 2.692    | 2.692    | 2.694    | 2.690    | 2.689    | 2.689    |
| 41               | 2.711                 | 2.671    | 2.671    | 2.672    | 2.673    | 2.672    | 2.673    | 2.678    | 2.676    | 2.678    |
| 42               | 2.729                 | 2.690    | 2.689    | 2.692    | 2.693    | 2.693    | 2.692    | 2.697    | 2.702    | 2.692    |
| 43               | 2.724                 | 2.683    | 2.681    | 2.683    | 2.684    | 2.686    | 2.685    | 2.684    | 2.686    | 2.683    |
| 44               | 2.710                 | 2.669    | 2.668    | 2.671    | 2.671    | 2.673    | 2.671    | 2.679    | 2.683    | 2.698    |
| 45               | 2.713                 | 2.673    | 2.671    | 2.674    | 2.673    | 2.677    | 2.675    | 2.684    | 2.688    | 2.694    |
| 46               | 2.713                 | 2.674    | 2.672    | 2.675    | 2.675    | 2.675    | 2.677    | 2.679    | 2.695    | 2.676    |
| 47               | 2.722                 | 2.683    | 2.681    | 2.684    | 2.685    | 2.684    | 2.684    | 2.696    | 2.692    | 2.684    |
| 48               | 2.722                 | 2.683    | 2.682    | 2.684    | 2.684    | 2.685    | 2.685    | 2.689    | 2.683    | 2.691    |
| 49               | 2.718                 | 2.678    | 2.677    | 2.679    | 2.680    | 2.682    | 2.682    | 2.689    | 2.683    | 2.696    |
| 50               | 2.732                 | 2.692    | 2.692    | 2.694    | 2.694    | 2.694    | 2.694    | 2.691    | 2.661    | 2.692    |
| Medie            | 2.722                 | 2.682    | 2.681    | 2.683    | 2.683    | 2.683    | 2.684    | 2.687    | 2.687    | 2.687    |
| Mediană          | 2.722                 | 2.680    | 2.679    | 2.682    | 2.681    | 2.682    | 2.682    | 2.688    | 2.686    | 2.690    |
| Abatere standard | 0.008                 | 0.008    | 0.008    | 0.008    | 0.008    | 0.008    | 0.008    | 0.007    | 0.009    | 0.009    |
| Min.             | 2.710                 | 2.669    | 2.668    | 2.671    | 2.671    | 2.672    | 2.671    | 2.678    | 2.661    | 2.663    |
| Max.             | 2.736                 | 2.696    | 2.697    | 2.697    | 2.697    | 2.697    | 2.699    | 2.702    | 2.702    | 2.701    |



| Nr.              | Tensiunea Directă (V) |           |           |           |           |           |           |           |
|------------------|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                  | 10000 ore             | 11000 ore | 12000 ore | 13000 ore | 14000 ore | 15000 ore | 16000 ore | 17000 ore |
| 26               | 2.699                 | 2.699     | 2.710     | 2.699     | 2.699     | 2.699     | 2.697     | 2.697     |
| 27               | 2.701                 | 2.701     | 2.708     | 2.704     | 2.708     | 2.704     | 2.697     | 2.701     |
| 28               | 2.681                 | 2.679     | 2.685     | 2.681     | 2.681     | 2.681     | 2.676     | 2.676     |
| 29               | 2.693                 | 2.693     | 2.697     | 2.699     | 2.697     | 2.693     | 2.691     | 2.691     |
| 30               | 2.681                 | 2.681     | 2.687     | 2.683     | 2.685     | 2.681     | 2.681     | 2.676     |
| 31               | 2.683                 | 2.683     | 2.687     | 2.685     | 2.687     | 2.681     | 2.683     | 2.681     |
| 32               | 2.676                 | 2.676     | 2.679     | 2.679     | 2.679     | 2.672     | 2.674     | 2.674     |
| 33               | 2.699                 | 2.697     | 2.701     | 2.699     | 2.701     | 2.697     | 2.697     | 2.697     |
| 34               | 2.683                 | 2.683     | 2.687     | 2.687     | 2.687     | 2.685     | 2.685     | 2.681     |
| 35               | 2.685                 | 2.689     | 2.687     | 2.683     | 2.685     | 2.683     | 2.683     | 2.681     |
| 36               | 2.683                 | 2.687     | 2.687     | 2.685     | 2.685     | 2.683     | 2.683     | 2.683     |
| 37               | 2.674                 | 2.679     | 2.679     | 2.679     | 2.681     | 2.679     | 2.676     | 2.676     |
| 38               | 2.689                 | 2.689     | 2.693     | 2.689     | 2.689     | 2.689     | 2.687     | 2.685     |
| 39               | 2.685                 | 2.695     | 2.693     | 2.689     | 2.689     | 2.689     | 2.687     | 2.687     |
| 40               | 2.695                 | 2.697     | 2.699     | 2.695     | 2.697     | 2.695     | 2.695     | 2.695     |
| 41               | 2.674                 | 2.676     | 2.683     | 2.674     | 2.676     | 2.676     | 2.674     | 2.676     |
| 42               | 2.695                 | 2.697     | 2.697     | 2.695     | 2.697     | 2.693     | 2.693     | 2.699     |
| 43               | 2.685                 | 2.687     | 2.689     | 2.689     | 2.689     | 2.685     | 2.687     | 2.687     |
| 44               | 2.672                 | 2.674     | 2.676     | 2.676     | 2.676     | 2.672     | 2.674     | 2.674     |
| 45               | 2.679                 | 2.679     | 2.681     | 2.679     | 2.679     | 2.676     | 2.679     | 2.679     |
| 46               | 2.679                 | 2.679     | 2.681     | 2.679     | 2.681     | 2.676     | 2.676     | 2.683     |
| 47               | 2.689                 | 2.689     | 2.689     | 2.687     | 2.691     | 2.685     | 2.687     | 2.691     |
| 48               | 2.687                 | 2.687     | 2.689     | 2.687     | 2.689     | 2.687     | 2.687     | 2.691     |
| 49               | 2.683                 | 2.685     | 2.687     | 2.683     | 2.685     | 2.683     | 2.681     | 2.685     |
| 50               | 2.695                 | 2.699     | 2.699     | 2.697     | 2.697     | 2.697     | 2.697     | 2.708     |
| Medie            | 2.686                 | 2.687     | 2.690     | 2.687     | 2.688     | 2.686     | 2.685     | 2.686     |
| Mediană          | 2.685                 | 2.687     | 2.687     | 2.687     | 2.687     | 2.685     | 2.685     | 2.685     |
| Abatere standard | 0.008                 | 0.008     | 0.009     | 0.008     | 0.008     | 0.009     | 0.008     | 0.009     |
| Min.             | 2.672                 | 2.674     | 2.676     | 2.674     | 2.676     | 2.672     | 2.674     | 2.674     |
| Max.             | 2.701                 | 2.701     | 2.710     | 2.704     | 2.708     | 2.704     | 2.697     | 2.708     |

### 3.10 Set de Date 2, 85°C, 100mA (Lungimea de Undă)

| Nr.              | Lungimea de Undă (nm) |          |          |          |          |          |          |          |          |          |
|------------------|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                  | 0 ore (Inițial)       | 1000 ore | 2000 ore | 3000 ore | 4000 ore | 5000 ore | 6000 ore | 7000 ore | 8000 ore | 9000 ore |
| 26               | 602.8                 | 605.2    | 603.3    | 604.1    | 604.4    | 604.9    | 604.9    | 603.7    | 604.0    | 602.5    |
| 27               | 602.1                 | 605.1    | 604.9    | 604.0    | 601.7    | 602.8    | 601.3    | 602.7    | 602.9    | 601.7    |
| 28               | 603.3                 | 601.5    | 601.7    | 604.1    | 601.6    | 602.8    | 604.0    | 605.6    | 602.8    | 604.8    |
| 29               | 603.0                 | 606.0    | 602.9    | 604.6    | 605.7    | 603.7    | 602.8    | 604.1    | 602.0    | 604.0    |
| 30               | 603.7                 | 604.8    | 603.8    | 602.9    | 604.5    | 604.9    | 604.9    | 603.4    | 603.2    | 604.4    |
| 31               | 603.7                 | 604.0    | 601.7    | 602.5    | 604.9    | 605.6    | 602.9    | 605.2    | 601.7    | 602.5    |
| 32               | 604.1                 | 605.2    | 602.0    | 605.9    | 604.1    | 604.4    | 602.9    | 602.5    | 604.8    | 604.9    |
| 33               | 604.1                 | 603.8    | 604.6    | 603.2    | 605.2    | 603.0    | 602.9    | 603.7    | 604.8    | 601.3    |
| 34               | 605.1                 | 602.9    | 604.0    | 601.6    | 601.9    | 603.7    | 604.4    | 603.3    | 602.9    | 604.9    |
| 35               | 602.5                 | 602.8    | 604.8    | 603.6    | 602.9    | 601.3    | 604.8    | 604.1    | 601.7    | 604.0    |
| 36               | 604.4                 | 605.2    | 604.4    | 604.8    | 601.7    | 604.8    | 604.4    | 601.7    | 602.1    | 604.8    |
| 37               | 602.8                 | 601.7    | 601.3    | 602.9    | 604.1    | 601.3    | 604.8    | 602.9    | 602.9    | 603.7    |
| 38               | 602.6                 | 604.4    | 605.2    | 601.7    | 602.9    | 601.3    | 605.2    | 604.9    | 604.0    | 601.7    |
| 39               | 601.7                 | 605.6    | 604.1    | 602.9    | 602.5    | 602.6    | 602.7    | 604.0    | 602.8    | 603.7    |
| 40               | 604.0                 | 603.7    | 603.3    | 601.3    | 602.5    | 602.9    | 602.5    | 603.6    | 603.2    | 603.6    |
| 41               | 603.6                 | 602.9    | 603.7    | 602.9    | 602.8    | 605.2    | 604.2    | 604.9    | 602.9    | 602.5    |
| 42               | 602.8                 | 605.2    | 601.4    | 601.3    | 603.6    | 603.2    | 601.9    | 603.3    | 605.5    | 600.5    |
| 43               | 603.0                 | 602.8    | 601.3    | 601.7    | 604.0    | 604.0    | 604.0    | 602.1    | 601.4    | 602.9    |
| 44               | 602.6                 | 601.7    | 604.4    | 603.6    | 600.5    | 604.0    | 602.9    | 604.1    | 603.3    | 603.3    |
| 45               | 602.4                 | 601.7    | 602.4    | 604.0    | 604.0    | 604.1    | 604.1    | 603.4    | 601.7    | 602.9    |
| 46               | 602.9                 | 600.5    | 606.0    | 604.1    | 606.2    | 603.8    | 605.0    | 605.2    | 604.1    | 602.9    |
| 47               | 603.7                 | 604.0    | 602.9    | 602.7    | 604.0    | 602.9    | 605.2    | 601.3    | 601.7    | 602.9    |
| 48               | 603.6                 | 601.0    | 601.3    | 604.4    | 603.6    | 604.1    | 603.3    | 604.0    | 600.5    | 602.7    |
| 49               | 603.2                 | 600.6    | 603.4    | 602.9    | 601.7    | 601.6    | 602.9    | 602.6    | 601.3    | 601.7    |
| 50               | 603.2                 | 604.1    | 601.7    | 603.6    | 605.9    | 602.9    | 602.5    | 604.1    | 603.7    | 601.7    |
| Medie            | 603.2                 | 603.5    | 603.2    | 603.3    | 603.5    | 603.4    | 603.7    | 603.6    | 602.9    | 603.1    |
| Mediană          | 603.2                 | 603.8    | 603.3    | 603.2    | 603.6    | 603.7    | 604.0    | 603.7    | 602.9    | 602.9    |
| Abatere standard | 0.8                   | 1.7      | 1.4      | 1.2      | 1.5      | 1.2      | 1.1      | 1.1      | 1.2      | 1.2      |
| Min.             | 601.7                 | 600.5    | 601.3    | 601.3    | 600.5    | 601.3    | 601.3    | 601.3    | 600.5    | 600.5    |
| Max.             | 605.1                 | 606.0    | 606.0    | 605.9    | 606.2    | 605.6    | 605.2    | 605.6    | 605.5    | 604.9    |

| Nr.              | Lungimea de Undă (nm) |           |           |           |           |           |           |           |
|------------------|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                  | 10000 ore             | 11000 ore | 12000 ore | 13000 ore | 14000 ore | 15000 ore | 16000 ore | 17000 ore |
| 26               | 603.3                 | 601.7     | 601.3     | 604.4     | 603.2     | 604.9     | 603.0     | 604.1     |
| 27               | 604.2                 | 601.3     | 602.9     | 603.3     | 604.8     | 604.0     | 605.0     | 600.5     |
| 28               | 604.8                 | 603.3     | 603.3     | 603.3     | 603.5     | 604.0     | 603.3     | 604.8     |
| 29               | 603.3                 | 604.0     | 604.6     | 604.8     | 604.0     | 604.0     | 601.3     | 601.7     |
| 30               | 604.4                 | 602.5     | 603.3     | 603.2     | 602.5     | 602.5     | 602.1     | 604.8     |
| 31               | 604.7                 | 603.3     | 604.8     | 604.8     | 603.3     | 603.2     | 603.3     | 600.9     |
| 32               | 604.8                 | 603.2     | 603.3     | 605.2     | 603.3     | 604.8     | 603.8     | 604.8     |
| 33               | 604.9                 | 603.3     | 603.3     | 602.3     | 603.4     | 603.2     | 603.2     | 604.0     |
| 34               | 603.3                 | 603.3     | 603.6     | 604.0     | 601.3     | 604.0     | 604.8     | 602.5     |
| 35               | 603.2                 | 601.7     | 603.3     | 602.3     | 604.8     | 604.0     | 601.7     | 604.1     |
| 36               | 601.7                 | 603.3     | 603.3     | 603.3     | 604.6     | 604.6     | 604.0     | 603.3     |
| 37               | 602.1                 | 603.3     | 604.0     | 603.2     | 604.8     | 604.6     | 603.3     | 604.0     |
| 38               | 603.2                 | 604.8     | 603.0     | 605.1     | 603.8     | 604.8     | 604.6     | 603.3     |
| 39               | 603.6                 | 603.6     | 605.2     | 602.5     | 601.7     | 601.7     | 603.7     | 602.1     |
| 40               | 604.8                 | 604.9     | 603.3     | 604.0     | 603.2     | 604.8     | 603.2     | 603.2     |
| 41               | 604.0                 | 603.3     | 602.9     | 601.7     | 603.3     | 602.5     | 603.5     | 603.7     |
| 42               | 602.5                 | 603.6     | 601.3     | 604.6     | 601.3     | 603.6     | 603.0     | 601.7     |
| 43               | 604.2                 | 601.7     | 602.3     | 602.3     | 604.4     | 601.7     | 603.5     | 603.2     |
| 44               | 603.7                 | 604.4     | 604.0     | 603.2     | 604.8     | 603.6     | 604.6     | 604.0     |
| 45               | 603.3                 | 603.6     | 603.3     | 604.4     | 603.2     | 602.4     | 603.2     | 603.3     |
| 46               | 603.6                 | 601.5     | 602.4     | 603.3     | 603.5     | 603.6     | 603.3     | 603.8     |
| 47               | 603.3                 | 600.9     | 603.3     | 603.3     | 603.6     | 603.3     | 603.2     | 603.6     |
| 48               | 602.4                 | 602.4     | 604.1     | 601.7     | 604.3     | 604.0     | 603.8     | 603.7     |
| 49               | 603.3                 | 602.1     | 601.4     | 604.7     | 604.8     | 601.3     | 603.3     | 602.1     |
| 50               | 604.8                 | 604.0     | 604.0     | 603.2     | 603.8     | 601.3     | 604.0     | 604.8     |
| Medie            | 603.7                 | 603.0     | 603.3     | 603.5     | 603.6     | 603.5     | 603.4     | 603.3     |
| Mediană          | 603.6                 | 603.3     | 603.3     | 603.3     | 603.5     | 603.6     | 603.3     | 603.6     |
| Abatere standard | 0.9                   | 1.1       | 1.0       | 1.0       | 1.0       | 1.1       | 0.9       | 1.2       |
| Min.             | 601.7                 | 600.9     | 601.3     | 601.7     | 601.3     | 601.3     | 601.3     | 600.5     |
| Max.             | 604.9                 | 604.9     | 605.2     | 605.2     | 604.8     | 604.9     | 605.0     | 604.8     |

### 3.11 Set de Date 3, 105°C, 100mA (Menținerea Lumenilor)

| Nr.              | Φ(lm)           | Menținerea Lumenilor (%) |          |          |          |          |          |          |          |          |
|------------------|-----------------|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
|                  | 0 ore (Inițial) | 1000 ore                 | 2000 ore | 3000 ore | 4000 ore | 5000 ore | 6000 ore | 7000 ore | 8000 ore | 9000 ore |
| 51               | 58.31           | 99.97                    | 99.90    | 99.79    | 99.73    | 99.67    | 99.61    | 99.54    | 99.49    | 99.42    |
| 52               | 56.09           | 100.09                   | 100.04   | 100.00   | 99.96    | 99.86    | 99.75    | 99.66    | 99.55    | 99.45    |
| 53               | 56.48           | 100.04                   | 99.86    | 99.79    | 99.72    | 99.61    | 99.50    | 99.40    | 99.27    | 99.17    |
| 54               | 58.31           | 100.05                   | 100.03   | 99.97    | 99.91    | 99.86    | 99.85    | 99.79    | 99.61    | 99.38    |
| 55               | 57.31           | 99.95                    | 99.76    | 99.62    | 99.51    | 99.35    | 99.23    | 99.09    | 98.94    | 98.78    |
| 56               | 57.36           | 100.16                   | 99.90    | 99.84    | 99.86    | 99.72    | 99.70    | 99.62    | 99.41    | 99.29    |
| 57               | 57.75           | 100.19                   | 100.14   | 100.09   | 99.91    | 99.86    | 99.62    | 99.43    | 99.41    | 99.22    |
| 58               | 56.36           | 100.14                   | 99.96    | 99.91    | 99.75    | 99.65    | 99.61    | 99.36    | 99.22    | 99.25    |
| 59               | 58.92           | 100.19                   | 100.19   | 100.03   | 99.97    | 99.86    | 99.80    | 99.61    | 99.37    | 99.37    |
| 60               | 58.61           | 100.03                   | 99.97    | 99.80    | 99.66    | 99.57    | 99.49    | 99.28    | 99.06    | 99.04    |
| 61               | 58.23           | 100.19                   | 100.05   | 99.86    | 99.73    | 99.66    | 99.62    | 99.43    | 99.23    | 99.18    |
| 62               | 58.50           | 99.91                    | 99.73    | 99.54    | 99.42    | 99.25    | 99.11    | 98.96    | 98.80    | 98.63    |
| 63               | 56.64           | 100.05                   | 99.95    | 99.81    | 99.72    | 99.61    | 99.51    | 99.40    | 99.28    | 99.17    |
| 64               | 57.65           | 100.19                   | 100.10   | 100.05   | 99.97    | 99.81    | 99.79    | 99.57    | 99.46    | 99.32    |
| 65               | 57.50           | 100.14                   | 100.09   | 100.03   | 99.97    | 99.81    | 99.46    | 99.27    | 99.27    | 99.03    |
| 66               | 57.06           | 100.04                   | 99.96    | 99.91    | 99.79    | 99.61    | 99.42    | 99.40    | 99.37    | 99.26    |
| 67               | 58.89           | 100.03                   | 99.95    | 99.95    | 99.86    | 99.66    | 99.47    | 99.49    | 99.29    | 99.18    |
| 68               | 58.20           | 100.15                   | 99.97    | 99.81    | 99.57    | 99.54    | 99.54    | 99.48    | 99.38    | 99.38    |
| 69               | 56.84           | 99.89                    | 99.70    | 99.56    | 99.45    | 99.35    | 99.23    | 99.07    | 98.91    | 98.73    |
| 70               | 58.40           | 100.14                   | 99.95    | 99.85    | 99.71    | 99.54    | 99.30    | 99.23    | 99.06    | 99.01    |
| 71               | 57.93           | 99.97                    | 99.90    | 99.81    | 99.65    | 99.52    | 99.29    | 99.24    | 99.09    | 99.00    |
| 72               | 57.58           | 100.03                   | 99.90    | 99.76    | 99.67    | 99.57    | 99.46    | 99.36    | 99.24    | 99.13    |
| 73               | 58.31           | 99.91                    | 99.76    | 99.57    | 99.47    | 99.30    | 99.14    | 98.99    | 98.82    | 98.66    |
| 74               | 58.54           | 100.15                   | 99.86    | 99.52    | 99.47    | 99.47    | 99.54    | 99.47    | 99.47    | 99.20    |
| 75               | 58.08           | 100.10                   | 99.79    | 99.90    | 99.95    | 99.81    | 99.76    | 99.62    | 99.66    | 99.23    |
| Medie            | 57.75           | 100.07                   | 99.94    | 99.83    | 99.73    | 99.62    | 99.51    | 99.39    | 99.27    | 99.14    |
| Mediană          | 57.93           | 100.05                   | 99.95    | 99.84    | 99.73    | 99.61    | 99.51    | 99.40    | 99.28    | 99.18    |
| Abatere standard | 0.81            | 0.0952                   | 0.1279   | 0.1653   | 0.1793   | 0.1822   | 0.2077   | 0.2130   | 0.2354   | 0.2318   |
| Min.             | 56.09           | 99.89                    | 99.70    | 99.52    | 99.42    | 99.25    | 99.11    | 98.96    | 98.80    | 98.63    |
| Max.             | 58.92           | 100.19                   | 100.19   | 100.09   | 99.97    | 99.86    | 99.85    | 99.79    | 99.66    | 99.45    |

| Nr.              | Menținerea Lumenilor (%) |           |           |           |           |           |           |           |
|------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                  | 10000 ore                | 11000 ore | 12000 ore | 13000 ore | 14000 ore | 15000 ore | 16000 ore | 17000 ore |
| 51               | 99.25                    | 99.09     | 99.09     | 99.09     | 99.09     | 98.95     | 98.82     | 98.66     |
| 52               | 99.30                    | 99.16     | 98.97     | 98.86     | 98.72     | 98.61     | 98.52     | 98.41     |
| 53               | 99.11                    | 99.08     | 99.06     | 98.97     | 98.90     | 98.83     | 98.76     | 98.78     |
| 54               | 99.19                    | 99.04     | 98.94     | 98.85     | 98.71     | 98.58     | 98.44     | 98.32     |
| 55               | 98.74                    | 98.66     | 98.66     | 98.69     | 98.74     | 98.66     | 98.78     | 98.66     |
| 56               | 99.27                    | 99.23     | 99.29     | 99.35     | 99.22     | 99.04     | 98.80     | 98.66     |
| 57               | 99.08                    | 99.08     | 99.10     | 99.03     | 98.81     | 98.65     | 98.51     | 98.49     |
| 58               | 99.31                    | 99.27     | 99.25     | 99.17     | 98.97     | 98.90     | 98.78     | 98.76     |
| 59               | 99.15                    | 99.07     | 98.96     | 98.96     | 98.95     | 98.78     | 98.76     | 98.73     |
| 60               | 98.96                    | 98.82     | 98.67     | 98.53     | 98.38     | 98.29     | 98.26     | 98.16     |
| 61               | 98.99                    | 98.80     | 98.75     | 98.42     | 98.33     | 98.32     | 98.37     | 98.18     |
| 62               | 98.58                    | 98.58     | 98.34     | 98.32     | 98.10     | 98.10     | 98.19     | 98.21     |
| 63               | 98.96                    | 98.73     | 98.53     | 98.43     | 98.29     | 98.23     | 98.09     | 97.95     |
| 64               | 99.05                    | 98.98     | 98.92     | 98.80     | 98.79     | 98.46     | 98.30     | 97.99     |
| 65               | 98.89                    | 98.80     | 98.75     | 98.59     | 98.59     | 98.42     | 98.26     | 98.16     |
| 66               | 98.98                    | 98.91     | 98.91     | 98.79     | 98.74     | 98.77     | 98.65     | 98.60     |
| 67               | 98.91                    | 98.83     | 98.57     | 98.45     | 98.40     | 98.39     | 98.20     | 98.15     |
| 68               | 99.24                    | 98.76     | 98.56     | 98.51     | 98.38     | 98.32     | 98.14     | 98.13     |
| 69               | 98.63                    | 98.59     | 98.57     | 98.54     | 98.43     | 98.28     | 98.28     | 98.14     |
| 70               | 98.80                    | 98.72     | 98.61     | 98.61     | 98.48     | 98.25     | 98.20     | 98.15     |
| 71               | 98.90                    | 98.79     | 98.67     | 98.67     | 98.60     | 98.38     | 98.24     | 98.22     |
| 72               | 98.98                    | 98.89     | 98.85     | 98.73     | 98.59     | 98.49     | 98.32     | 98.16     |
| 73               | 98.75                    | 98.80     | 98.77     | 98.66     | 98.42     | 98.37     | 98.23     | 98.08     |
| 74               | 99.11                    | 98.96     | 98.86     | 98.62     | 98.34     | 98.33     | 98.19     | 97.97     |
| 75               | 99.28                    | 99.10     | 98.93     | 98.79     | 98.71     | 98.62     | 98.55     | 98.43     |
| Medie            | 99.02                    | 98.91     | 98.82     | 98.74     | 98.63     | 98.52     | 98.43     | 98.32     |
| Mediană          | 98.99                    | 98.89     | 98.85     | 98.69     | 98.60     | 98.46     | 98.32     | 98.21     |
| Abatere standard | 0.2104                   | 0.1944    | 0.2358    | 0.2554    | 0.2735    | 0.2519    | 0.2440    | 0.2676    |
| Min.             | 98.58                    | 98.58     | 98.34     | 98.32     | 98.10     | 98.10     | 98.09     | 97.95     |
| Max.             | 99.31                    | 99.27     | 99.29     | 99.35     | 99.22     | 99.04     | 98.82     | 98.78     |

### 3.12 Set de Date 3, 105°C, 100mA (400-700nm Menținerea Fluxului de Fotoni)

| Nr.              | $\Phi_p (\mu\text{mol} \times \text{s}^{-1})$ | 400-700nm Menținerea Fluxului de Fotoni (%) |          |          |          |          |          |          |          |          |
|------------------|-----------------------------------------------|---------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
|                  | 0 ore (Inițial)                               | 1000 ore                                    | 2000 ore | 3000 ore | 4000 ore | 5000 ore | 6000 ore | 7000 ore | 8000 ore | 9000 ore |
| 51               | 0.6045                                        | 99.49                                       | 99.35    | 99.24    | 98.97    | 98.71    | 98.59    | 98.46    | 98.33    | 98.23    |
| 52               | 0.5818                                        | 99.79                                       | 99.52    | 99.11    | 99.11    | 99.00    | 98.87    | 98.78    | 98.69    | 98.61    |
| 53               | 0.5909                                        | 99.64                                       | 99.27    | 99.19    | 99.09    | 98.98    | 98.93    | 98.63    | 98.44    | 98.19    |
| 54               | 0.6047                                        | 99.70                                       | 99.57    | 99.50    | 99.45    | 99.40    | 99.31    | 99.11    | 98.93    | 98.78    |
| 55               | 0.5974                                        | 100.15                                      | 100.13   | 100.07   | 100.02   | 99.80    | 99.60    | 99.35    | 99.10    | 98.95    |
| 56               | 0.5935                                        | 99.90                                       | 99.46    | 99.29    | 99.02    | 98.45    | 98.15    | 97.99    | 97.94    | 97.89    |
| 57               | 0.5989                                        | 99.90                                       | 99.52    | 99.40    | 99.05    | 98.58    | 98.35    | 98.26    | 98.18    | 98.11    |
| 58               | 0.5810                                        | 100.10                                      | 99.72    | 99.64    | 99.50    | 99.33    | 99.14    | 98.98    | 98.90    | 98.78    |
| 59               | 0.6045                                        | 99.98                                       | 99.72    | 99.55    | 99.24    | 98.71    | 98.46    | 98.35    | 98.26    | 98.16    |
| 60               | 0.6092                                        | 100.10                                      | 99.87    | 99.75    | 99.66    | 99.54    | 99.34    | 99.23    | 99.15    | 99.00    |
| 61               | 0.6006                                        | 99.85                                       | 99.67    | 99.43    | 99.30    | 99.13    | 98.92    | 98.87    | 98.67    | 98.52    |
| 62               | 0.6040                                        | 99.74                                       | 99.64    | 99.52    | 99.34    | 99.25    | 99.07    | 98.97    | 98.84    | 98.77    |
| 63               | 0.5932                                        | 99.63                                       | 99.61    | 99.49    | 99.39    | 99.29    | 99.17    | 98.82    | 98.77    | 98.62    |
| 64               | 0.5997                                        | 99.53                                       | 99.47    | 99.35    | 99.25    | 99.20    | 99.08    | 98.83    | 98.72    | 98.57    |
| 65               | 0.5986                                        | 99.80                                       | 99.70    | 99.62    | 99.48    | 99.33    | 99.13    | 99.03    | 98.83    | 98.73    |
| 66               | 0.5966                                        | 99.58                                       | 99.46    | 99.03    | 98.81    | 98.59    | 98.44    | 98.27    | 98.24    | 98.19    |
| 67               | 0.6083                                        | 99.33                                       | 98.93    | 98.83    | 98.67    | 98.57    | 98.47    | 98.36    | 98.29    | 98.19    |
| 68               | 0.6028                                        | 99.95                                       | 99.88    | 99.75    | 99.65    | 99.55    | 99.45    | 99.37    | 99.27    | 99.15    |
| 69               | 0.5952                                        | 99.60                                       | 99.40    | 99.21    | 99.08    | 99.01    | 98.87    | 98.77    | 98.57    | 98.47    |
| 70               | 0.6055                                        | 99.85                                       | 99.82    | 99.75    | 99.65    | 99.54    | 99.44    | 99.24    | 99.09    | 98.94    |
| 71               | 0.6040                                        | 99.85                                       | 99.57    | 99.39    | 99.22    | 99.12    | 98.96    | 98.81    | 98.76    | 98.44    |
| 72               | 0.5958                                        | 99.58                                       | 99.46    | 99.23    | 98.61    | 98.30    | 98.09    | 97.94    | 97.90    | 97.85    |
| 73               | 0.6023                                        | 99.95                                       | 99.93    | 99.92    | 99.82    | 99.72    | 99.60    | 99.35    | 99.07    | 98.92    |
| 74               | 0.6063                                        | 99.34                                       | 99.01    | 98.89    | 98.70    | 98.55    | 98.48    | 98.33    | 98.20    | 98.05    |
| 75               | 0.6047                                        | 99.75                                       | 99.37    | 99.31    | 98.94    | 98.68    | 98.48    | 98.38    | 98.35    | 98.23    |
| Medie            | 0.5994                                        | 99.76                                       | 99.56    | 99.42    | 99.24    | 99.05    | 98.90    | 98.74    | 98.62    | 98.49    |
| Mediană          | 0.6006                                        | 99.79                                       | 99.57    | 99.40    | 99.24    | 99.12    | 98.93    | 98.81    | 98.69    | 98.52    |
| Abatere standard | 0.0073                                        | 0.22                                        | 0.27     | 0.30     | 0.36     | 0.43     | 0.45     | 0.43     | 0.39     | 0.37     |
| Min.             | 0.5810                                        | 99.33                                       | 98.93    | 98.83    | 98.61    | 98.30    | 98.09    | 97.94    | 97.90    | 97.85    |
| Max.             | 0.6092                                        | 100.15                                      | 100.13   | 100.07   | 100.02   | 99.80    | 99.60    | 99.37    | 99.27    | 99.15    |

| Nr.              | 400-700nm Menținerea Fluxului de Fotoni (%) |           |           |           |           |           |           |           |
|------------------|---------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                  | 10000 ore                                   | 11000 ore | 12000 ore | 13000 ore | 14000 ore | 15000 ore | 16000 ore | 17000 ore |
| 51               | 98.11                                       | 97.98     | 97.87     | 97.77     | 97.65     | 97.52     | 97.44     | 97.32     |
| 52               | 98.49                                       | 98.35     | 98.25     | 98.14     | 98.02     | 97.90     | 97.77     | 97.66     |
| 53               | 97.99                                       | 97.78     | 97.68     | 97.60     | 97.51     | 97.41     | 97.31     | 97.28     |
| 54               | 98.58                                       | 98.46     | 98.36     | 98.18     | 98.07     | 98.00     | 97.90     | 97.77     |
| 55               | 98.86                                       | 98.68     | 98.48     | 98.34     | 98.26     | 98.14     | 97.89     | 97.76     |
| 56               | 97.79                                       | 97.76     | 97.71     | 97.67     | 97.62     | 97.57     | 97.52     | 97.44     |
| 57               | 98.01                                       | 97.90     | 97.76     | 97.68     | 97.56     | 97.48     | 97.35     | 97.24     |
| 58               | 98.69                                       | 98.61     | 98.49     | 98.40     | 98.28     | 98.11     | 97.99     | 97.73     |
| 59               | 98.05                                       | 97.97     | 97.85     | 97.77     | 97.68     | 97.57     | 97.47     | 97.37     |
| 60               | 98.83                                       | 98.77     | 98.65     | 98.54     | 98.41     | 98.31     | 98.19     | 98.06     |
| 61               | 98.40                                       | 98.24     | 98.15     | 98.04     | 97.90     | 97.79     | 97.72     | 97.64     |
| 62               | 98.68                                       | 98.54     | 98.36     | 98.28     | 98.16     | 98.10     | 97.98     | 97.85     |
| 63               | 98.52                                       | 98.38     | 98.21     | 98.10     | 97.99     | 97.79     | 97.69     | 97.57     |
| 64               | 98.42                                       | 98.35     | 98.25     | 98.07     | 97.95     | 97.83     | 97.63     | 97.83     |
| 65               | 98.56                                       | 98.50     | 98.40     | 98.25     | 98.05     | 97.90     | 97.84     | 97.74     |
| 66               | 98.14                                       | 98.09     | 98.04     | 98.01     | 97.97     | 97.90     | 97.80     | 97.72     |
| 67               | 98.11                                       | 97.98     | 97.88     | 97.76     | 97.65     | 97.55     | 97.44     | 97.32     |
| 68               | 99.04                                       | 98.94     | 98.84     | 98.71     | 98.59     | 98.49     | 98.37     | 98.26     |
| 69               | 98.32                                       | 98.19     | 98.08     | 97.95     | 97.87     | 97.77     | 97.72     | 97.61     |
| 70               | 98.89                                       | 98.81     | 98.71     | 98.60     | 98.51     | 98.36     | 98.27     | 98.15     |
| 71               | 98.13                                       | 97.95     | 97.85     | 97.80     | 97.70     | 97.65     | 97.60     | 97.50     |
| 72               | 97.83                                       | 97.80     | 97.75     | 97.67     | 97.62     | 97.52     | 97.42     | 97.38     |
| 73               | 98.79                                       | 98.62     | 98.52     | 98.42     | 98.34     | 98.24     | 98.14     | 98.01     |
| 74               | 97.89                                       | 97.81     | 97.71     | 97.58     | 97.48     | 97.43     | 97.33     | 97.23     |
| 75               | 98.11                                       | 98.03     | 97.93     | 97.83     | 97.73     | 97.57     | 97.49     | 97.40     |
| Medie            | 98.37                                       | 98.26     | 98.15     | 98.05     | 97.94     | 97.84     | 97.73     | 97.63     |
| Mediană          | 98.40                                       | 98.24     | 98.15     | 98.04     | 97.95     | 97.79     | 97.72     | 97.64     |
| Abatere standard | 0.37                                        | 0.36      | 0.35      | 0.33      | 0.32      | 0.32      | 0.31      | 0.29      |
| Min.             | 97.79                                       | 97.76     | 97.68     | 97.58     | 97.48     | 97.41     | 97.31     | 97.23     |
| Max.             | 99.04                                       | 98.94     | 98.84     | 98.71     | 98.59     | 98.49     | 98.37     | 98.26     |

### 3.13 Set de Date 3,105°C, 100mA (Modificarea Cromaticității)

| Nr.              | u'              | v'     | Modificarea Cromaticității ( $\Delta u'v'$ ) |          |          |          |          |          |          |          |          |
|------------------|-----------------|--------|----------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
|                  | 0 ore (Inițial) |        | 1000 ore                                     | 2000 ore | 3000 ore | 4000 ore | 5000 ore | 6000 ore | 7000 ore | 8000 ore | 9000 ore |
| 51               | 0.2527          | 0.5221 | 0.0001                                       | 0.0002   | 0.0004   | 0.0006   | 0.0008   | 0.0009   | 0.0010   | 0.0011   | 0.0012   |
| 52               | 0.2530          | 0.5223 | 0.0001                                       | 0.0003   | 0.0005   | 0.0006   | 0.0008   | 0.0010   | 0.0011   | 0.0012   | 0.0014   |
| 53               | 0.2539          | 0.5207 | 0.0001                                       | 0.0003   | 0.0005   | 0.0007   | 0.0008   | 0.0010   | 0.0011   | 0.0012   | 0.0015   |
| 54               | 0.2532          | 0.5227 | 0.0001                                       | 0.0002   | 0.0004   | 0.0006   | 0.0008   | 0.0010   | 0.0011   | 0.0013   | 0.0014   |
| 55               | 0.2534          | 0.5216 | 0.0002                                       | 0.0004   | 0.0006   | 0.0008   | 0.0009   | 0.0011   | 0.0012   | 0.0014   | 0.0015   |
| 56               | 0.2524          | 0.5229 | 0.0001                                       | 0.0003   | 0.0005   | 0.0007   | 0.0009   | 0.0010   | 0.0011   | 0.0014   | 0.0015   |
| 57               | 0.2539          | 0.5230 | 0.0002                                       | 0.0004   | 0.0005   | 0.0006   | 0.0009   | 0.0011   | 0.0013   | 0.0014   | 0.0016   |
| 58               | 0.2519          | 0.5233 | 0.0002                                       | 0.0004   | 0.0004   | 0.0006   | 0.0008   | 0.0010   | 0.0012   | 0.0014   | 0.0016   |
| 59               | 0.2509          | 0.5237 | 0.0002                                       | 0.0004   | 0.0005   | 0.0006   | 0.0008   | 0.0011   | 0.0012   | 0.0015   | 0.0016   |
| 60               | 0.2534          | 0.5223 | 0.0001                                       | 0.0002   | 0.0004   | 0.0006   | 0.0009   | 0.0011   | 0.0013   | 0.0014   | 0.0017   |
| 61               | 0.2517          | 0.5229 | 0.0002                                       | 0.0004   | 0.0005   | 0.0007   | 0.0008   | 0.0010   | 0.0012   | 0.0014   | 0.0016   |
| 62               | 0.2525          | 0.5230 | 0.0002                                       | 0.0004   | 0.0006   | 0.0007   | 0.0009   | 0.0011   | 0.0013   | 0.0015   | 0.0017   |
| 63               | 0.2541          | 0.5207 | 0.0003                                       | 0.0005   | 0.0006   | 0.0007   | 0.0009   | 0.0011   | 0.0013   | 0.0014   | 0.0016   |
| 64               | 0.2534          | 0.5222 | 0.0002                                       | 0.0004   | 0.0006   | 0.0008   | 0.0010   | 0.0012   | 0.0014   | 0.0015   | 0.0017   |
| 65               | 0.2533          | 0.5223 | 0.0001                                       | 0.0003   | 0.0004   | 0.0006   | 0.0008   | 0.0011   | 0.0013   | 0.0015   | 0.0016   |
| 66               | 0.2526          | 0.5202 | 0.0001                                       | 0.0002   | 0.0004   | 0.0006   | 0.0007   | 0.0009   | 0.0011   | 0.0013   | 0.0015   |
| 67               | 0.2515          | 0.5221 | 0.0001                                       | 0.0002   | 0.0003   | 0.0006   | 0.0007   | 0.0008   | 0.0009   | 0.0011   | 0.0013   |
| 68               | 0.2535          | 0.5232 | 0.0002                                       | 0.0003   | 0.0004   | 0.0004   | 0.0006   | 0.0008   | 0.0009   | 0.0010   | 0.0011   |
| 69               | 0.2543          | 0.5208 | 0.0001                                       | 0.0003   | 0.0004   | 0.0006   | 0.0007   | 0.0009   | 0.0011   | 0.0013   | 0.0014   |
| 70               | 0.2517          | 0.5223 | 0.0002                                       | 0.0004   | 0.0005   | 0.0006   | 0.0007   | 0.0009   | 0.0011   | 0.0013   | 0.0015   |
| 71               | 0.2532          | 0.5209 | 0.0001                                       | 0.0002   | 0.0005   | 0.0006   | 0.0008   | 0.0010   | 0.0012   | 0.0013   | 0.0015   |
| 72               | 0.2527          | 0.5228 | 0.0002                                       | 0.0004   | 0.0006   | 0.0007   | 0.0009   | 0.0012   | 0.0013   | 0.0015   | 0.0016   |
| 73               | 0.2526          | 0.5233 | 0.0001                                       | 0.0002   | 0.0005   | 0.0006   | 0.0007   | 0.0009   | 0.0011   | 0.0013   | 0.0015   |
| 74               | 0.2523          | 0.5219 | 0.0001                                       | 0.0002   | 0.0004   | 0.0006   | 0.0007   | 0.0008   | 0.0010   | 0.0012   | 0.0014   |
| 75               | 0.2535          | 0.5215 | 0.0002                                       | 0.0003   | 0.0005   | 0.0007   | 0.0009   | 0.0010   | 0.0012   | 0.0014   | 0.0016   |
| Medie            | 0.2529          | 0.5222 | 0.0002                                       | 0.0003   | 0.0005   | 0.0006   | 0.0008   | 0.0010   | 0.0012   | 0.0013   | 0.0015   |
| Mediană          | 0.2530          | 0.5223 | 0.0001                                       | 0.0003   | 0.0005   | 0.0006   | 0.0008   | 0.0010   | 0.0012   | 0.0014   | 0.0015   |
| Abatere standard | 0.0009          | 0.0010 | 0.0001                                       | 0.0001   | 0.0001   | 0.0001   | 0.0001   | 0.0001   | 0.0001   | 0.0001   | 0.0002   |
| Min.             | 0.2509          | 0.5202 | 0.0001                                       | 0.0002   | 0.0003   | 0.0004   | 0.0006   | 0.0008   | 0.0009   | 0.0010   | 0.0011   |
| Max.             | 0.2543          | 0.5237 | 0.0003                                       | 0.0005   | 0.0006   | 0.0008   | 0.0010   | 0.0012   | 0.0014   | 0.0015   | 0.0017   |



| Nr.              | Modificarea Cromaticității ( $\Delta u^*v^*$ ) |           |           |           |           |           |           |           |
|------------------|------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                  | 10000 ore                                      | 11000 ore | 12000 ore | 13000 ore | 14000 ore | 15000 ore | 16000 ore | 17000 ore |
| 51               | 0.0013                                         | 0.0014    | 0.0015    | 0.0016    | 0.0017    | 0.0016    | 0.0017    | 0.0018    |
| 52               | 0.0014                                         | 0.0015    | 0.0016    | 0.0017    | 0.0018    | 0.0019    | 0.0020    | 0.0021    |
| 53               | 0.0017                                         | 0.0019    | 0.0020    | 0.0021    | 0.0019    | 0.0020    | 0.0021    | 0.0021    |
| 54               | 0.0016                                         | 0.0018    | 0.0019    | 0.0020    | 0.0019    | 0.0020    | 0.0022    | 0.0023    |
| 55               | 0.0017                                         | 0.0018    | 0.0020    | 0.0021    | 0.0022    | 0.0022    | 0.0023    | 0.0024    |
| 56               | 0.0016                                         | 0.0018    | 0.0019    | 0.0021    | 0.0023    | 0.0022    | 0.0024    | 0.0026    |
| 57               | 0.0017                                         | 0.0018    | 0.0020    | 0.0021    | 0.0023    | 0.0024    | 0.0026    | 0.0027    |
| 58               | 0.0015                                         | 0.0016    | 0.0017    | 0.0018    | 0.0020    | 0.0021    | 0.0022    | 0.0024    |
| 59               | 0.0017                                         | 0.0017    | 0.0018    | 0.0019    | 0.0020    | 0.0021    | 0.0022    | 0.0024    |
| 60               | 0.0015                                         | 0.0014    | 0.0016    | 0.0018    | 0.0019    | 0.0021    | 0.0022    | 0.0024    |
| 61               | 0.0017                                         | 0.0017    | 0.0017    | 0.0019    | 0.0019    | 0.0021    | 0.0022    | 0.0023    |
| 62               | 0.0015                                         | 0.0016    | 0.0018    | 0.0019    | 0.0020    | 0.0022    | 0.0023    | 0.0025    |
| 63               | 0.0017                                         | 0.0015    | 0.0016    | 0.0018    | 0.0018    | 0.0021    | 0.0023    | 0.0024    |
| 64               | 0.0016                                         | 0.0017    | 0.0017    | 0.0018    | 0.0019    | 0.0021    | 0.0022    | 0.0022    |
| 65               | 0.0017                                         | 0.0018    | 0.0019    | 0.0020    | 0.0021    | 0.0021    | 0.0023    | 0.0024    |
| 66               | 0.0016                                         | 0.0017    | 0.0017    | 0.0018    | 0.0019    | 0.0020    | 0.0021    | 0.0023    |
| 67               | 0.0014                                         | 0.0016    | 0.0015    | 0.0016    | 0.0016    | 0.0019    | 0.0020    | 0.0021    |
| 68               | 0.0012                                         | 0.0016    | 0.0018    | 0.0019    | 0.0020    | 0.0020    | 0.0022    | 0.0023    |
| 69               | 0.0015                                         | 0.0016    | 0.0018    | 0.0020    | 0.0021    | 0.0021    | 0.0022    | 0.0023    |
| 70               | 0.0016                                         | 0.0017    | 0.0019    | 0.0020    | 0.0022    | 0.0023    | 0.0025    | 0.0025    |
| 71               | 0.0017                                         | 0.0018    | 0.0020    | 0.0021    | 0.0023    | 0.0024    | 0.0026    | 0.0026    |
| 72               | 0.0017                                         | 0.0018    | 0.0020    | 0.0022    | 0.0023    | 0.0023    | 0.0024    | 0.0026    |
| 73               | 0.0016                                         | 0.0016    | 0.0018    | 0.0020    | 0.0022    | 0.0023    | 0.0021    | 0.0024    |
| 74               | 0.0016                                         | 0.0017    | 0.0018    | 0.0019    | 0.0021    | 0.0022    | 0.0023    | 0.0024    |
| 75               | 0.0018                                         | 0.0017    | 0.0019    | 0.0021    | 0.0021    | 0.0023    | 0.0025    | 0.0026    |
| Medie            | 0.0016                                         | 0.0017    | 0.0018    | 0.0019    | 0.0020    | 0.0021    | 0.0022    | 0.0024    |
| Mediană          | 0.0016                                         | 0.0017    | 0.0018    | 0.0019    | 0.0020    | 0.0021    | 0.0022    | 0.0024    |
| Abatere standard | 0.0001                                         | 0.0001    | 0.0002    | 0.0002    | 0.0002    | 0.0002    | 0.0002    | 0.0002    |
| Min.             | 0.0012                                         | 0.0014    | 0.0015    | 0.0016    | 0.0016    | 0.0016    | 0.0017    | 0.0018    |
| Max.             | 0.0018                                         | 0.0019    | 0.0020    | 0.0022    | 0.0023    | 0.0024    | 0.0026    | 0.0027    |

### 3.14 Set de Date 3, 105°C, 100mA (Tensiunea Directă)

| Nr.              | Tensiunea Directă (V) |          |          |          |          |          |          |          |          |          |
|------------------|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                  | 0 ore (Inițial)       | 1000 ore | 2000 ore | 3000 ore | 4000 ore | 5000 ore | 6000 ore | 7000 ore | 8000 ore | 9000 ore |
| 51               | 2.734                 | 2.695    | 2.694    | 2.696    | 2.697    | 2.696    | 2.701    | 2.693    | 2.698    | 2.694    |
| 52               | 2.723                 | 2.685    | 2.685    | 2.685    | 2.685    | 2.684    | 2.688    | 2.683    | 2.688    | 2.704    |
| 53               | 2.716                 | 2.677    | 2.675    | 2.677    | 2.675    | 2.675    | 2.681    | 2.687    | 2.685    | 2.686    |
| 54               | 2.730                 | 2.688    | 2.686    | 2.687    | 2.687    | 2.687    | 2.690    | 2.687    | 2.702    | 2.698    |
| 55               | 2.714                 | 2.672    | 2.671    | 2.672    | 2.672    | 2.673    | 2.677    | 2.691    | 2.683    | 2.703    |
| 56               | 2.731                 | 2.690    | 2.688    | 2.690    | 2.689    | 2.689    | 2.692    | 2.698    | 2.695    | 2.699    |
| 57               | 2.723                 | 2.683    | 2.680    | 2.682    | 2.682    | 2.682    | 2.684    | 2.694    | 2.680    | 2.703    |
| 58               | 2.730                 | 2.690    | 2.688    | 2.689    | 2.690    | 2.690    | 2.691    | 2.691    | 2.695    | 2.694    |
| 59               | 2.731                 | 2.690    | 2.689    | 2.690    | 2.690    | 2.691    | 2.694    | 2.667    | 2.681    | 2.685    |
| 60               | 2.734                 | 2.692    | 2.692    | 2.694    | 2.692    | 2.693    | 2.696    | 2.680    | 2.699    | 2.692    |
| 61               | 2.726                 | 2.684    | 2.684    | 2.685    | 2.684    | 2.685    | 2.688    | 2.671    | 2.690    | 2.695    |
| 62               | 2.741                 | 2.698    | 2.697    | 2.697    | 2.697    | 2.698    | 2.702    | 2.702    | 2.686    | 2.697    |
| 63               | 2.712                 | 2.671    | 2.671    | 2.671    | 2.671    | 2.671    | 2.674    | 2.680    | 2.685    | 2.699    |
| 64               | 2.721                 | 2.681    | 2.680    | 2.682    | 2.681    | 2.679    | 2.685    | 2.682    | 2.698    | 2.698    |
| 65               | 2.720                 | 2.679    | 2.678    | 2.679    | 2.679    | 2.678    | 2.684    | 2.687    | 2.690    | 2.706    |
| 66               | 2.717                 | 2.675    | 2.674    | 2.674    | 2.677    | 2.674    | 2.681    | 2.698    | 2.699    | 2.689    |
| 67               | 2.721                 | 2.681    | 2.682    | 2.680    | 2.680    | 2.681    | 2.686    | 2.662    | 2.695    | 2.684    |
| 68               | 2.723                 | 2.681    | 2.681    | 2.681    | 2.682    | 2.681    | 2.688    | 2.691    | 2.682    | 2.700    |
| 69               | 2.714                 | 2.673    | 2.672    | 2.672    | 2.672    | 2.672    | 2.679    | 2.701    | 2.677    | 2.691    |
| 70               | 2.727                 | 2.685    | 2.686    | 2.685    | 2.685    | 2.685    | 2.691    | 2.696    | 2.689    | 2.682    |
| 71               | 2.721                 | 2.680    | 2.679    | 2.678    | 2.680    | 2.678    | 2.685    | 2.689    | 2.689    | 2.684    |
| 72               | 2.733                 | 2.693    | 2.693    | 2.693    | 2.693    | 2.694    | 2.701    | 2.692    | 2.687    | 2.701    |
| 73               | 2.737                 | 2.696    | 2.696    | 2.696    | 2.696    | 2.696    | 2.703    | 2.697    | 2.692    | 2.699    |
| 74               | 2.722                 | 2.681    | 2.682    | 2.681    | 2.681    | 2.680    | 2.685    | 2.684    | 2.685    | 2.686    |
| 75               | 2.717                 | 2.677    | 2.677    | 2.674    | 2.677    | 2.674    | 2.681    | 2.697    | 2.683    | 2.683    |
| Medie            | 2.725                 | 2.684    | 2.683    | 2.684    | 2.684    | 2.683    | 2.688    | 2.688    | 2.689    | 2.694    |
| Mediană          | 2.723                 | 2.683    | 2.682    | 2.682    | 2.682    | 2.682    | 2.688    | 2.691    | 2.689    | 2.695    |
| Abatere standard | 0.008                 | 0.008    | 0.008    | 0.008    | 0.008    | 0.008    | 0.008    | 0.010    | 0.007    | 0.007    |
| Min.             | 2.712                 | 2.671    | 2.671    | 2.671    | 2.671    | 2.671    | 2.674    | 2.662    | 2.677    | 2.682    |
| Max.             | 2.741                 | 2.698    | 2.697    | 2.697    | 2.697    | 2.698    | 2.703    | 2.702    | 2.702    | 2.706    |

| Nr.              | Tensiunea Directă (V) |           |           |           |           |           |           |           |
|------------------|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                  | 10000 ore             | 11000 ore | 12000 ore | 13000 ore | 14000 ore | 15000 ore | 16000 ore | 17000 ore |
| 51               | 2.701                 | 2.706     | 2.701     | 2.699     | 2.701     | 2.699     | 2.699     | 2.703     |
| 52               | 2.689                 | 2.693     | 2.691     | 2.687     | 2.691     | 2.689     | 2.687     | 2.691     |
| 53               | 2.681                 | 2.681     | 2.683     | 2.679     | 2.683     | 2.681     | 2.681     | 2.685     |
| 54               | 2.691                 | 2.695     | 2.697     | 2.691     | 2.693     | 2.691     | 2.691     | 2.695     |
| 55               | 2.676                 | 2.687     | 2.679     | 2.676     | 2.679     | 2.679     | 2.674     | 2.676     |
| 56               | 2.695                 | 2.697     | 2.693     | 2.693     | 2.697     | 2.693     | 2.691     | 2.693     |
| 57               | 2.689                 | 2.695     | 2.689     | 2.685     | 2.687     | 2.685     | 2.685     | 2.689     |
| 58               | 2.695                 | 2.699     | 2.695     | 2.693     | 2.695     | 2.693     | 2.691     | 2.695     |
| 59               | 2.693                 | 2.706     | 2.697     | 2.695     | 2.695     | 2.693     | 2.693     | 2.704     |
| 60               | 2.699                 | 2.710     | 2.697     | 2.697     | 2.699     | 2.697     | 2.697     | 2.701     |
| 61               | 2.691                 | 2.712     | 2.693     | 2.689     | 2.691     | 2.687     | 2.687     | 2.689     |
| 62               | 2.701                 | 2.718     | 2.704     | 2.701     | 2.704     | 2.701     | 2.699     | 2.701     |
| 63               | 2.676                 | 2.687     | 2.676     | 2.676     | 2.679     | 2.674     | 2.676     | 2.674     |
| 64               | 2.685                 | 2.691     | 2.687     | 2.685     | 2.689     | 2.681     | 2.687     | 2.685     |
| 65               | 2.683                 | 2.699     | 2.687     | 2.681     | 2.687     | 2.681     | 2.685     | 2.687     |
| 66               | 2.679                 | 2.683     | 2.683     | 2.679     | 2.681     | 2.679     | 2.681     | 2.676     |
| 67               | 2.685                 | 2.704     | 2.693     | 2.685     | 2.691     | 2.683     | 2.685     | 2.685     |
| 68               | 2.685                 | 2.693     | 2.687     | 2.687     | 2.687     | 2.683     | 2.687     | 2.687     |
| 69               | 2.681                 | 2.685     | 2.676     | 2.676     | 2.679     | 2.674     | 2.679     | 2.674     |
| 70               | 2.693                 | 2.697     | 2.691     | 2.691     | 2.691     | 2.689     | 2.691     | 2.691     |
| 71               | 2.685                 | 2.697     | 2.685     | 2.683     | 2.685     | 2.683     | 2.685     | 2.685     |
| 72               | 2.697                 | 2.706     | 2.699     | 2.701     | 2.701     | 2.695     | 2.697     | 2.697     |
| 73               | 2.701                 | 2.710     | 2.701     | 2.701     | 2.706     | 2.697     | 2.699     | 2.699     |
| 74               | 2.685                 | 2.687     | 2.685     | 2.687     | 2.689     | 2.685     | 2.685     | 2.685     |
| 75               | 2.681                 | 2.685     | 2.681     | 2.681     | 2.687     | 2.679     | 2.687     | 2.679     |
| Medie            | 2.689                 | 2.697     | 2.690     | 2.688     | 2.691     | 2.687     | 2.688     | 2.689     |
| Mediană          | 2.689                 | 2.697     | 2.691     | 2.687     | 2.691     | 2.685     | 2.687     | 2.689     |
| Abatere standard | 0.008                 | 0.010     | 0.008     | 0.008     | 0.008     | 0.008     | 0.007     | 0.009     |
| Min.             | 2.676                 | 2.681     | 2.676     | 2.676     | 2.679     | 2.674     | 2.674     | 2.674     |
| Max.             | 2.701                 | 2.718     | 2.704     | 2.701     | 2.706     | 2.701     | 2.699     | 2.704     |

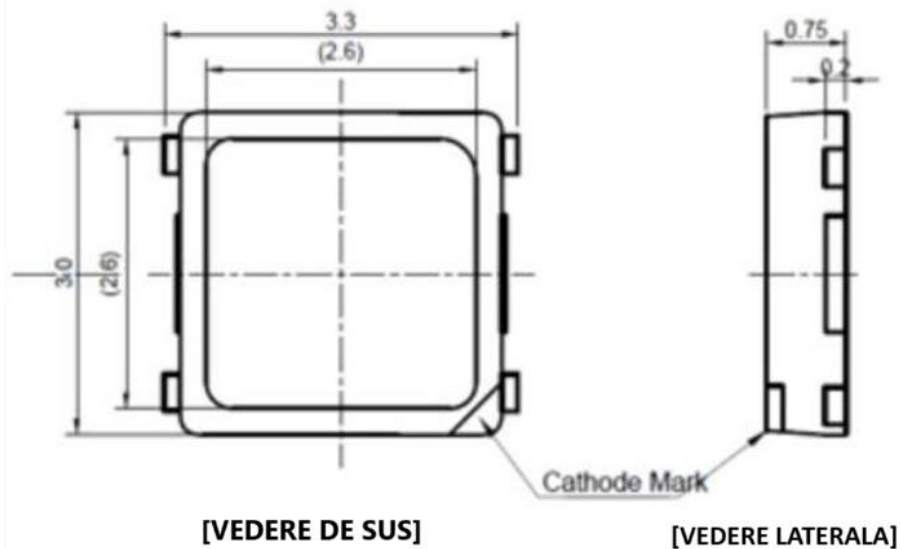
### 3.15 Set de Date 3, 105°C, 100mA (Lungimea de Undă)

| Nr.              | Lungimea de Undă (nm) |          |          |          |          |          |          |          |          |          |
|------------------|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                  | 0 ore (Inițial)       | 1000 ore | 2000 ore | 3000 ore | 4000 ore | 5000 ore | 6000 ore | 7000 ore | 8000 ore | 9000 ore |
| 51               | 604.2                 | 601.7    | 602.9    | 603.7    | 603.7    | 602.9    | 602.9    | 603.4    | 603.6    | 603.2    |
| 52               | 604.1                 | 603.8    | 602.0    | 601.7    | 602.8    | 604.0    | 602.9    | 601.7    | 604.1    | 605.2    |
| 53               | 603.7                 | 602.9    | 602.9    | 603.6    | 602.1    | 604.9    | 605.1    | 603.1    | 603.1    | 604.8    |
| 54               | 603.7                 | 603.2    | 602.9    | 601.9    | 604.9    | 602.9    | 602.7    | 604.4    | 601.3    | 603.3    |
| 55               | 605.2                 | 602.9    | 605.1    | 603.4    | 603.3    | 601.7    | 606.3    | 605.2    | 604.9    | 601.7    |
| 56               | 602.5                 | 605.2    | 603.7    | 601.6    | 604.4    | 604.8    | 602.8    | 603.2    | 604.9    | 602.9    |
| 57               | 602.7                 | 604.4    | 603.8    | 605.2    | 601.7    | 605.1    | 606.0    | 601.4    | 605.2    | 605.1    |
| 58               | 602.6                 | 603.3    | 604.0    | 601.9    | 602.8    | 604.4    | 602.9    | 601.3    | 601.3    | 602.9    |
| 59               | 602.8                 | 602.5    | 601.3    | 601.3    | 600.5    | 601.3    | 603.1    | 602.9    | 601.6    | 602.9    |
| 60               | 603.7                 | 602.8    | 604.5    | 603.6    | 603.6    | 604.0    | 604.6    | 602.6    | 604.0    | 602.8    |
| 61               | 602.8                 | 604.0    | 602.9    | 602.1    | 604.7    | 601.3    | 604.8    | 601.3    | 604.0    | 602.9    |
| 62               | 603.8                 | 605.2    | 601.3    | 602.9    | 601.3    | 602.5    | 602.9    | 603.7    | 604.4    | 601.7    |
| 63               | 602.5                 | 604.4    | 603.4    | 604.6    | 602.8    | 604.0    | 603.7    | 603.6    | 604.0    | 603.6    |
| 64               | 602.5                 | 605.2    | 606.0    | 604.4    | 604.0    | 602.9    | 603.7    | 602.9    | 604.9    | 604.9    |
| 65               | 603.6                 | 604.0    | 602.1    | 602.5    | 601.4    | 602.9    | 605.1    | 604.1    | 604.0    | 603.6    |
| 66               | 603.0                 | 602.9    | 604.0    | 601.3    | 601.7    | 603.8    | 604.8    | 603.8    | 603.6    | 603.0    |
| 67               | 604.0                 | 602.5    | 601.7    | 601.6    | 601.3    | 602.0    | 602.9    | 604.4    | 605.1    | 602.9    |
| 68               | 602.9                 | 602.9    | 605.2    | 602.5    | 602.1    | 603.6    | 604.1    | 601.7    | 602.8    | 602.5    |
| 69               | 604.0                 | 606.0    | 604.0    | 604.6    | 602.9    | 604.1    | 606.3    | 602.8    | 602.9    | 604.0    |
| 70               | 602.9                 | 605.2    | 605.2    | 603.2    | 605.6    | 601.9    | 605.2    | 603.7    | 604.6    | 604.4    |
| 71               | 604.1                 | 604.1    | 602.9    | 601.7    | 602.8    | 603.2    | 602.9    | 606.4    | 602.9    | 603.2    |
| 72               | 605.2                 | 603.2    | 604.4    | 601.3    | 602.9    | 604.0    | 603.2    | 601.3    | 602.9    | 604.8    |
| 73               | 602.1                 | 604.9    | 605.6    | 602.0    | 604.1    | 601.7    | 601.7    | 604.0    | 601.4    | 601.3    |
| 74               | 600.1                 | 602.9    | 601.7    | 604.0    | 601.7    | 601.9    | 603.8    | 601.6    | 604.0    | 602.9    |
| 75               | 603.2                 | 605.0    | 604.0    | 603.8    | 603.6    | 602.9    | 602.9    | 604.9    | 605.2    | 604.4    |
| Medie            | 603.3                 | 603.8    | 603.5    | 602.8    | 602.9    | 603.1    | 603.9    | 603.2    | 603.6    | 603.4    |
| Mediană          | 603.2                 | 603.8    | 603.7    | 602.5    | 602.8    | 602.9    | 603.7    | 603.2    | 604.0    | 603.2    |
| Abatere standard | 1.1                   | 1.1      | 1.4      | 1.2      | 1.3      | 1.2      | 1.3      | 1.4      | 1.2      | 1.1      |
| Min.             | 600.1                 | 601.7    | 601.3    | 601.3    | 600.5    | 601.3    | 601.7    | 601.3    | 601.3    | 601.3    |
| Max.             | 605.2                 | 606.0    | 606.0    | 605.2    | 605.6    | 605.1    | 606.3    | 606.4    | 605.2    | 605.2    |

| Nr.              | Lungimea de Undă (nm) |           |           |           |           |           |           |           |
|------------------|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                  | 10000 ore             | 11000 ore | 12000 ore | 13000 ore | 14000 ore | 15000 ore | 16000 ore | 17000 ore |
| 51               | 603.6                 | 603.3     | 604.0     | 601.4     | 604.0     | 603.5     | 604.8     | 604.0     |
| 52               | 603.7                 | 603.6     | 604.5     | 604.0     | 604.4     | 602.5     | 604.0     | 603.6     |
| 53               | 602.4                 | 604.8     | 603.3     | 604.6     | 604.7     | 604.8     | 606.0     | 604.8     |
| 54               | 603.3                 | 603.3     | 603.2     | 604.1     | 605.0     | 603.2     | 601.3     | 603.3     |
| 55               | 604.8                 | 604.1     | 603.3     | 602.5     | 604.8     | 604.4     | 602.4     | 605.0     |
| 56               | 604.8                 | 602.5     | 602.1     | 600.9     | 604.8     | 603.6     | 603.3     | 602.8     |
| 57               | 602.5                 | 604.0     | 601.9     | 603.2     | 603.5     | 603.6     | 602.5     | 603.8     |
| 58               | 604.0                 | 602.1     | 603.5     | 604.4     | 603.8     | 603.3     | 600.6     | 600.9     |
| 59               | 604.0                 | 601.3     | 603.6     | 600.9     | 604.0     | 600.3     | 600.9     | 603.3     |
| 60               | 603.3                 | 603.8     | 603.3     | 603.3     | 604.0     | 603.3     | 604.4     | 604.0     |
| 61               | 603.6                 | 602.5     | 603.2     | 604.0     | 604.0     | 602.4     | 604.5     | 604.6     |
| 62               | 603.2                 | 601.4     | 603.3     | 602.5     | 601.3     | 604.3     | 604.8     | 602.1     |
| 63               | 602.9                 | 603.6     | 604.8     | 604.8     | 604.8     | 603.4     | 604.9     | 604.9     |
| 64               | 603.6                 | 604.0     | 603.3     | 603.3     | 603.3     | 602.1     | 604.8     | 603.3     |
| 65               | 604.0                 | 603.6     | 603.2     | 604.1     | 603.3     | 604.9     | 604.0     | 603.5     |
| 66               | 603.6                 | 601.7     | 605.2     | 604.1     | 603.6     | 603.3     | 605.6     | 605.6     |
| 67               | 601.7                 | 602.5     | 602.1     | 603.3     | 603.0     | 603.2     | 604.0     | 603.3     |
| 68               | 603.2                 | 604.9     | 603.3     | 603.3     | 604.8     | 604.6     | 604.4     | 602.1     |
| 69               | 603.3                 | 604.8     | 605.6     | 602.1     | 601.3     | 603.3     | 604.1     | 603.3     |
| 70               | 602.5                 | 603.2     | 603.3     | 601.3     | 601.3     | 603.2     | 604.8     | 601.7     |
| 71               | 604.8                 | 603.5     | 603.2     | 602.1     | 601.7     | 603.3     | 604.8     | 605.6     |
| 72               | 603.3                 | 604.1     | 601.7     | 603.3     | 601.3     | 604.0     | 603.6     | 602.5     |
| 73               | 601.7                 | 601.7     | 603.3     | 604.4     | 603.2     | 602.1     | 601.7     | 602.1     |
| 74               | 601.4                 | 603.6     | 601.7     | 604.1     | 600.9     | 600.5     | 601.7     | 601.7     |
| 75               | 603.2                 | 604.8     | 603.3     | 602.9     | 603.3     | 603.8     | 605.2     | 604.0     |
| Medie            | 603.3                 | 603.3     | 603.3     | 603.2     | 603.4     | 603.2     | 603.7     | 603.4     |
| Mediană          | 603.3                 | 603.6     | 603.3     | 603.3     | 603.6     | 603.3     | 604.1     | 603.3     |
| Abatere standard | 0.9                   | 1.1       | 1.0       | 1.2       | 1.3       | 1.1       | 1.5       | 1.2       |
| Min.             | 601.4                 | 601.3     | 601.7     | 600.9     | 600.9     | 600.3     | 600.6     | 600.9     |
| Max.             | 604.8                 | 604.9     | 605.6     | 604.8     | 605.0     | 604.9     | 606.0     | 605.6     |

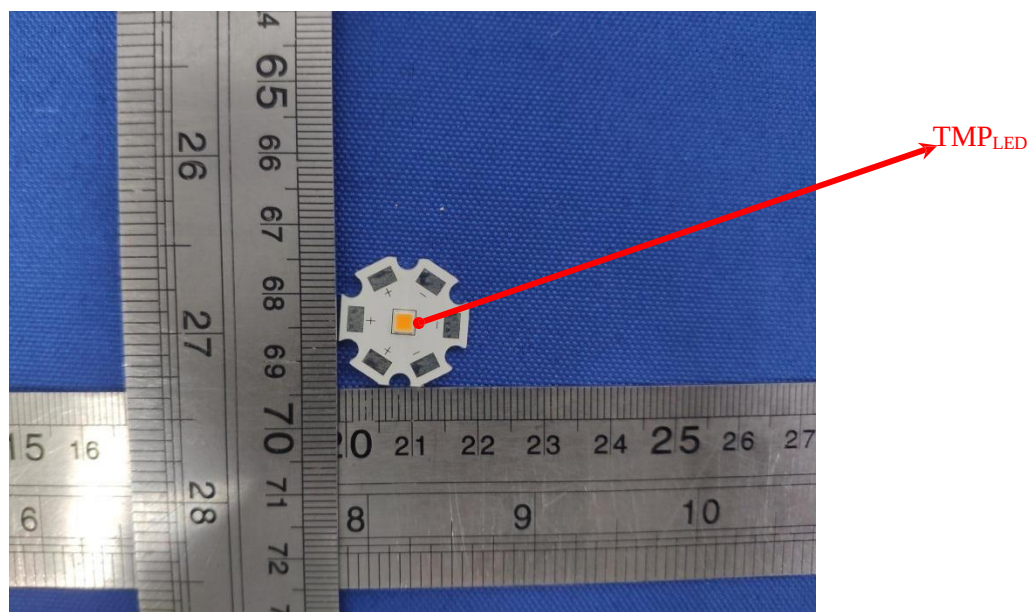
## 4 – Imagine DUT (Dispozitiv Supus Testării)

### 4.1 Dimensiuni Mecanice



Toate dimensiunile sunt în milimetri.

### 4.2 Imagine DUT (Dispozitiv Supus Testării)



## Instrucțiuni

1. Informațiile marcate cu „indice superior #” sunt furnizate de către solicitant, iar laboratorul nu este responsabil pentru autenticitatea lor. Aceste date pot influența validitatea rezultatelor prezentate în raportul de testare.
2. Acest raport include anumite metode de testare care nu sunt acoperite de acreditarea NVLAP și sunt indicate cu simbolul \*
3. Dacă nu se specifică altfel, rezultatele prezentate în acest raport se referă exclusiv la eșantionul sau eșantioanele testate.
4. Dacă nu este prevăzut de solicitant sau reglementările produsului, regula de decizie din raport nu ia în considerare incertitudinea.
5. Incertitudinea extinsă prezentată în acest raport este calculată prin combinarea incertitudinii standard cu un factor de acoperire  $K=2$ , având un interval de încredere de 95%.
6. Acest raport nu poate fi reprodus, integral sau parțial, fără aprobarea scrisă prealabilă a companiei.
7. Raportul este valabil doar cu o semnătură digitală validă. Semnătura digitală poate fi verificată doar cu versiunea 7.0 sau mai recentă a software-ului Adobe.

\*\*\*\*\* SFÂRȘIT DE RAPORT \*\*\*\*\*

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