

A sleek, silver and black curing light with a glowing blue LED tip. The device is positioned vertically, with its handle extending downwards into a pool of liquid that has splashed around its base. The liquid is highly reflective, mirroring the light and the device's form. The background is solid black, making the metallic and glowing elements stand out.

CLINICAL  
PERFORMANCE  
NEVER LOOKED  
SO GOOD.

SmartLite® Pro  
Modular LED Curing Light



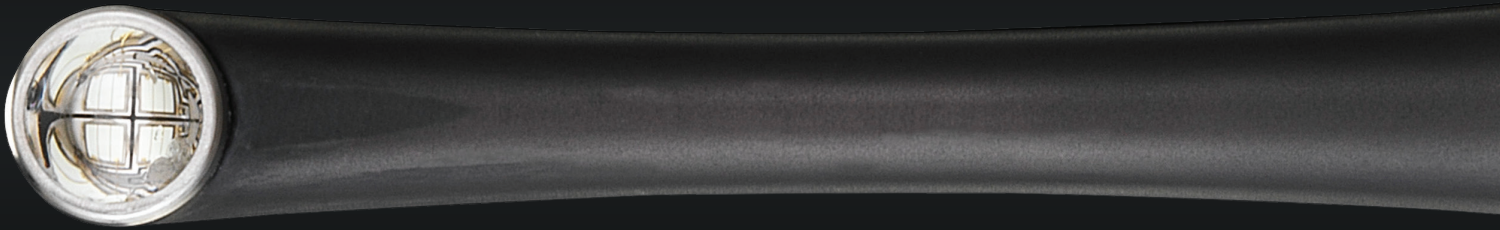
GERMAN  
DESIGN  
AWARD  
WINNER  
2020

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 Dentsply  
Sirona

# More than just a curing light

We weren't satisfied with creating one of the most advanced curing lights ever. It had to be one of the best-designed as well. The SmartLite® Pro curing light is a unique modular device in a remarkable, all-metal housing. But it delivers far more than good looks. State of the art optics provide leading quality of cure for reliable outcomes. SmartLite® Pro Modular LED Curing Light. **Designed to perform.**



## F U N C T I O N

Forward-thinking composition of clinical performance and modular versatility

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## ⊕ Single-button simplicity

Intuitive one-button operation with audible and tactile signals allows you to focus on what really matters.

## ⊕ Metal housing

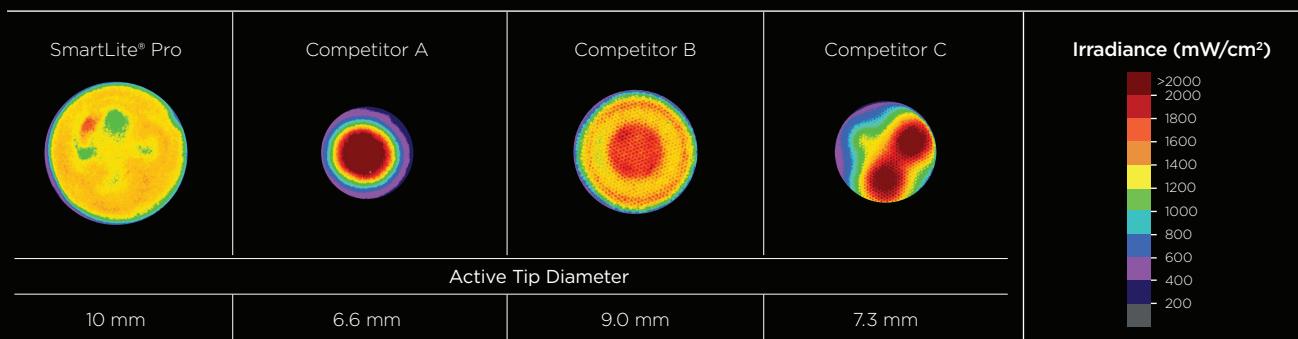
Medical-grade stainless steel and anodized aluminum provide robust durability, year after year.



## ⊕ State of the art optics

Optimized 4 LED design provides a homogeneous light distribution over the entire curing area. The SmartLite<sup>®</sup> Pro Curing Light delivers an average irradiance of 1250 mW/cm<sup>2</sup>

Beam profiles of 4 lights showing the distribution of light emitted across the light tips<sup>1</sup>

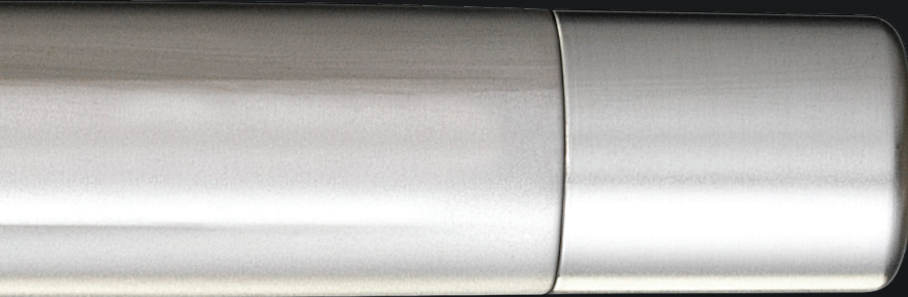


All images taken at 0 mm distance from the tip under identical conditions showing the un-filtered irradiance distribution of all wavelengths of blue and violet light (350-550 nm).

1. R. Price (2019). Unpublished commissioned study, data on file. Available upon request.

## ⊕ Versatility

The SmartLite® Pro Curing Light features a modular design with interchangeable tips for a variety of clinical indications. These quick connect, 360-degree rotational tips are easy to change. The forward-thinking design also allows for the addition of new tips as technology advances in the future.

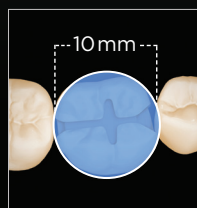


## ⊕ Transillumination

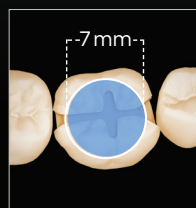
The additional Transillumination Tip is a diagnostic aid that helps visualize interproximal caries, evaluate cracked teeth and illuminate endodontic access. Its sophisticated design includes a 1 mm focused light output with 2 different settings (anterior and posterior).

## ⊕ Reliable clinical outcomes

Large 10 mm active curing diameter to cover bigger restorations combined with a low-profile pen-style design for excellent clinical access.



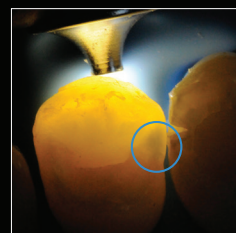
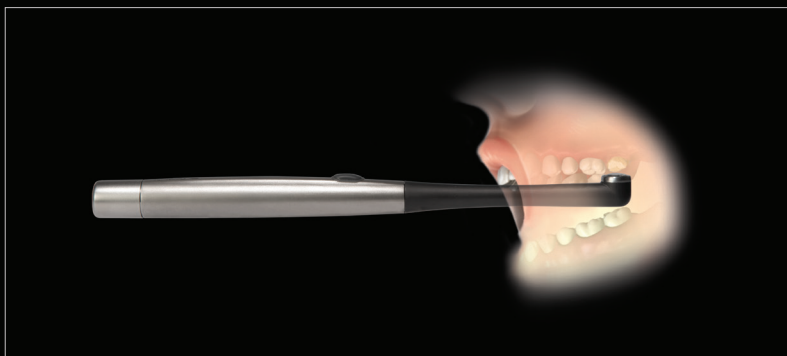
SmartLite® Pro



Competitor



Visual Inspection



Transillumination



SmartLite® Pro Curing Light: Low-profile design and clinically relevant probe length to adequately reach posterior restorations.



## F O R M

Remarkable pen-style design that feels balanced in the hand and beautiful in its details

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## Multifunctional charging base

The SmartLite® Pro Modular LED Curing Light comes with a modern-design charging base with a built-in radiometer and room for extra tips. The intuitive battery management system includes two quick connect batteries for constant availability. The latest generation lithium iron phosphate batteries ensure a full day of clinical operation with only one charge.




## Ordering Information

|        |  |   |
|--------|--|---|
| 644400 | SmartLite® Pro Introductory Kit              | 1 x Handpiece<br>1 x Cure Tip<br>1 x Transillumination Tip<br>2 x Batteries<br>1 x Charging Base<br>Accessories |
| 644409 | SmartLite® Pro Basic Kit                     | 1 x Handpiece<br>1 x Cure Tip<br>2 x Batteries<br>1 x Charging Base<br>Accessories                              |
| 644401 | SmartLite® Pro Battery Refill                |   |
| 644402 | SmartLite® Pro Sleeves Refill                |   |
| 644403 | SmartLite® Pro Eye Protection Shields Refill |   |
| 644404 | SmartLite® Pro Power Connector Refill        |   |
| 644405 | SmartLite® Pro Transillumination Tip Refill  |   |
| 644406 | SmartLite® Pro PolyCure Tip Refill           |   |
| 644407 | SmartLite® Pro Cure Tip Refill               |   |

## SmartLite® Pro Modular LED Curing Light

For more information visit [www.dentsplysirona.com](http://www.dentsplysirona.com)

Find us on  [www.facebook.com/dentsplysirona.restorative](https://www.facebook.com/dentsplysirona.restorative)

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# The Importance of Proper Light Curing

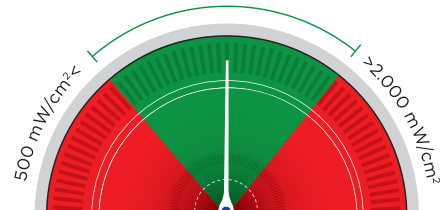
There are several clinical challenges dentists encounter if they choose an inadequate curing light or apply inappropriate light curing techniques including weak adhesion and compromised physical and chemical properties of the restorative material. In fact, studies revealed that more than 37% of composite restorations are insufficiently cured!<sup>1</sup> This will likely have a negative impact on the longevity of the restoration.

The following guidelines are based on the Consensus Statements on Light Curing<sup>2</sup> (Northern Light Meetings, Halifax) and are intended to help you achieve more predictable and reliable outcomes.

## Shining A Light On Curing

Not all lights are created equal

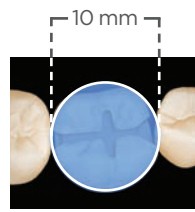
**Be aware of the key performance indicators:** Make sure your light delivers a minimum of 500 mW/cm<sup>2</sup> in standard mode. Be cautious when using high output lights (above 2,000 mW/cm<sup>2</sup>) that advocate very short exposure times (e.g. 1-5 seconds).



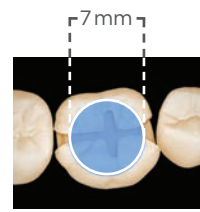
- SmartLite<sup>®</sup> Pro: ~1,250 mW/cm<sup>2</sup> over the whole curing area

**Maximize Coverage.** Choose a light with a uniform output that covers as much of the restoration as possible. If the light tip is smaller than the restoration, use overlapping exposures.

SmartLite<sup>®</sup> Pro

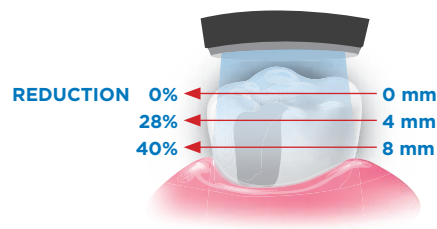


Competitor



- SmartLite<sup>®</sup> Pro: Large active curing area of 10 mm diameter

**Cure Over Distance.** Select a light that offers the least reduction in irradiance as distance from the tip increases.



- SmartLite<sup>®</sup> Pro: Collimated beam for reliable curing over larger distances

## How To Properly Light Cure

Before getting started, be sure to:

- Use eye protection
- Watch position of curing light

**Inspect And Clean.** First make sure the light is free of defects and debris. Apply barrier sleeve to protect lens and handpiece from gross contamination.

**Place Light.** Position light as close as possible (without touching) and with tip parallel to the surface of the restoration.



**Double Check.** Light cure restoration for recommended time. Follow the resin manufacturer's curing table.



For SmartLite<sup>®</sup> Pro, please refer to the curing table on the back of this guide.

1. Boksmann L, Santos GC. Principles of Light Curing. Inside Dentistry 2012; 8: Issue 3.  
 2. Price R., Light Curing Guidelines for Practitioners: A Consensus Statement from the 2014 Symposium on Light Curing in Dentistry, Dalhousie University, Halifax, Canada, J Can Dent Assoc 2014;80:e61.  
 Strassler H., Oxman J., Rueggeberg F., What should you look for in a curing light? CDAessentials, 2015;3(6):30-3.  
 Price R., Guidelines For Using Bulk Fill Resin Composites, CDAessentials 2017;4:39

# Curing Time Chart

Knowing the right curing time for the material used in the restoration can be the difference between restoration success and failure. The below chart outlines the appropriate curing time for Dentsply Sirona restorative materials when cured with SmartLite® Pro Curing Light (Cure Tip).



## SmartLite® Pro Modular LED Curing Light

## Material Curing Guide

| Material Shade                         | Curing time(s) | Material Shade                         | Curing time(s) | Material Shade                               | Curing time(s) |
|--|----------------|--|----------------|--|----------------|
| <b>SDR® flow+<sup>1</sup></b>          |                | <b>Spectra® ST flow<sup>4</sup></b>    |                | <b>Prime&amp;Bond® Adhesives<sup>5</sup></b> |                |
| <b>4 mm*</b>                           | <b>10 20</b>   | <b>2 mm*</b>                           | <b>10 20</b>   |  |                |
| A1                                     | ● ●            | A1                                     | ● ●            |  | 10 20          |
| A2                                     | ● ●            | A2                                     | ● ●            |  | ● ●            |
| A3                                     | ● ●            | A3                                     | ● ●            |  |                |
| Universal                              | ● ●            | A3.5                                   | ● ●            |  |                |
| <b>Spectra® ST<sup>2</sup></b>         |                |  |                | <b>Calibra® Cements<sup>6</sup></b>          |                |
| <b>2 mm*</b>                           | <b>10 20</b>   |  |                |  | <b>max. 5</b>  |
| A1                                     | ● ●            |  |                | Tack curing only ●                           |                |
| A2                                     | ● ●            |  |                | (max. 5 seconds per surface)                 |                |
| A3                                     | ● ●            |  |                |  |                |
| A3.5                                   | ● ●            |  |                |  |                |
| A4                                     | ● ●            |  |                |  |                |
| BW                                     | ● ●            |  |                |  |                |
| <b>Spectra® ST Effects<sup>3</sup></b> |                | <b>FluoroCore® 2+/<br/>core-X flow</b> |                |  |                |
| <b>2 mm*</b>                           | <b>10 20</b>   | <b>3mm*</b>                            | <b>10 20</b>   |  |                |
| D1                                     | ● ●            | Tooth Color                            | ● ●            |  |                |
| D3                                     | ● ●            | Blue Color                             | ● ●            |  |                |
| E1                                     | ● ●            |  |                |  |                |
| <b>QuiXfill®/Quixx®</b>                |                |  |                |  |                |
| <b>4 mm*</b>                           | <b>10 20</b>   |  |                |  |                |
| Universal                              | ● ●            |  |                |  |                |

1. Depending on the market, SDR flow+ is available as either SDR® flow+, SDR® Plus or SDR®.  
 2. Depending on the market, Spectra ST is available as either TPH Spectra® ST, Ceram.x Spectra™ ST, or Neo Spectra™ ST.  
 3. Depending on the market, Spectra ST Effects is available as either TPH Spectra® ST Effects, Ceram.x Spectra™ ST Effects, or Neo Spectra™ ST Effects.  
 4. Depending on the market, Spectra ST flow is available as either TPH Spectra® ST flow, Ceram.x Spectra™ ST flow, or Neo Spectra™ ST flow.  
 5. Includes Prime&Bond active, Prime&Bond NT, Prime&Bond elect, Prime&Bond XP  
 6. Includes Calibra Universal, Calibra Ceram, Calibra Veneer  
 \* Depth of cure: Composites according to ISO 4049

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