




Manufacturer:
Dymax

Product Name:
Dymax 90° (degree) Terminator for 3mm UV Lightguides

Manufacturer Part Number:
39030

[Click here for more details on the Dymax 90° \(degree\) Terminator for 3mm UV Lightguides](#)

- Patented intensity adjustment feature
- >17,000 mW/cm² initial intensity
- Simple to operate and adjust
- Up to 2,000 hours useful bulb life
- Integral shutter with digital timer
- Foot switch or PLC integration
- Proprietary "Cool Blue"™ filter virtually eliminates liquid lightguide degradation
- Wide range of lightguides available (liquid/fiber, single/multi-pole, various lengths)
- Easy-to-read, lighted front panel LCD display with enhanced unit status and notification displays
- Controlled power-up sequence ensures proper temperature
- Improved user interface for easier operation
- Smooth front panel surface that is easier to clean
- Extended exposure time settings to 9,999.9 seconds
- Fast bulb replacement



BlueWave® 200 Version 3.1 Light-Curing Spot Lamp

The Process Control You Need Without Added Cost

BlueWave® 200 3.1 is a high-intensity, light-curing spot-lamp system. This spot-curing lamp emits energy in the UVA and visible portion of the spectrum (300-450 nm) for light curing of adhesives, coatings, and encapsulants. Ideally suited for either manual or automated processes, the unit contains an integral shutter which can be actuated by a foot pedal or PLC and a universal power input that provides consistent performance at any voltage. A wide range of lightguides in various materials and configurations are available for use with this unit, providing application flexibility.

The BlueWave's new faceplate design features an improved operator interface with an easy-to-read LCD display. Also located on the faceplate is the unit's patented intensity adjustment control. This feature is important for validating an appropriate intensity range and maintaining that range during production. Users can manually adjust the unit's intensity to accommodate for bulb degradation and other factors that may affect intensity.

Version 3.1's design includes:

- Updated front panel and large color LCD display
- Smooth, easy-to-clean front faceplate
- Improved operator interface
- Controlled warm-up sequence
- Extended exposure timer setting to 9,999.9 seconds
- No light leakage from enclosure

PRODUCT BULLETIN | BLUEWAVE® 200

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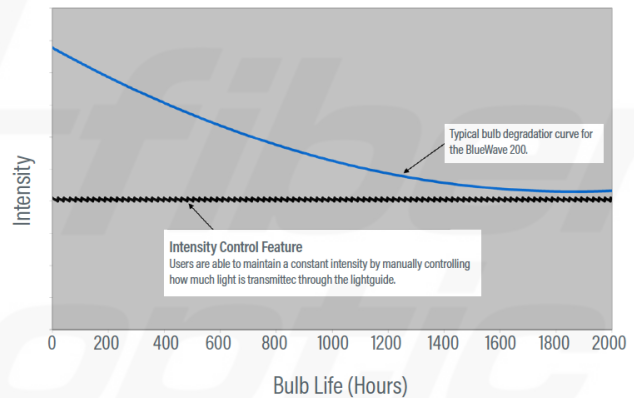
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How Does the BlueWave® 200's Patented Intensity Adjustment Feature Work?

All bulbs used to power high-intensity light-curing spot lamps degrade over time from normal use. This typically results in a gradual decrease in total intensity as the bulb ages (shown in Chart 1). For this reason, UV light-curing processes are usually validated using the lowest acceptable intensity level to maximize bulb life. However, this means that for the majority of the production process, curing is being done with a higher intensity level than is actually necessary, therefore, it can be expected that the intensity will decrease over time. With the BlueWave® 200's patented intensity adjustment feature, users can maintain the qualified intensity range by manually increasing intensity output to offset this degradation. The adjustment is easily accomplished with the provided adjusting tool or by using the removable knob as shown in the photograph below. This feature is useful for both process validation and subsequent process control during production.

Chart 1. BlueWave® 200 Intensity Control Feature



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Validation

Prior to production, Dymax advises customers to conduct testing to determine the exposure time and intensity required to achieve full cure. Validating a UV light-curing process can be accomplished in one of two ways:

Set Exposure Time, Determine Intensity

Users can specify a cure time and, through empirical testing, determine the intensity required to achieve full cure.

Set Intensity, Determine Exposure Time

Users can specify intensity (perhaps one that maximizes bulb life) through empirical testing to determine the exposure time required to achieve full cure. Note: As with any manufacturing process, it is advisable to incorporate a safety factor.

Intensity Adjustment Options



The unit includes an intensity adjustment knob for fingertip adjustment or the adjustment can be performed with a flat-head screwdriver when the knob is removed.

Control

UV process validation identifies a minimum acceptable intensity range that ensures complete cure in an acceptable cycle time. Users can choose to operate at full intensity (intensity adjusted to 100%) or maintain a constant intensity (at some lower level) through periodic manual adjustments. The average BlueWave 200 bulb will typically degrade <1% per eight hours of normal use. The good manufacturing practice of routine intensity measurement with a calibrated radiometer will determine when and if any adjustments are required.

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Specifications

| Specifications | |
|--------------------------------|--|
| Part Numbers | 41015 BlueWave® 200, North American Version (120V Standard Plug) 41014 BlueWave® 200, Asian Version (Type G Plug) 41013 BlueWave® 200 with No Power Cord* 38465 Replacement Bulb |
| Initial Intensities | Total (280-450 nm) 40+ W/cm ² Visible (400-450 nm) 17+ W/cm ² UVA** (320-395 nm) 17+ W/cm ² UVB (280-320 nm) 7 W/cm ² |
| Intensity Adjustment | Manual from 1% to 100% output |
| Power Requirements | 100-240 VAC, 50-60 Hz, 2.5 Amps |
| Power Supply | Solid-state, 200 Watt |
| Bulb | 200 Watt metal-halide bulb included; replacement in less than one minute |
| Reflector | Elliptical; glass with dichroic coating to reflect UV and minimize IR |
| Shutter Timer | Digital LCD timer up to 9,999.9 seconds; manual or timed shutter |
| Shutter Activation | Foot switch or PLC |
| I/O Port | 15 pin D - sub-miniature connector |
| Signals (PLC Integration) | Inputs: Shutter activate, shutter deactivate, lamp control, PLC enable Outputs: Unit status, temperature fault, shutter fault, lamp status, power status, shutter status, lightguide status, bulb life warning, bulb life expired |
| Cooling | Filtered fan arrangement; thermally controlled to maintain proper lamp temperature |
| Display | LCD, monochromatic, 320 by 240 pixels |
| Overall Dimensions (W x D x H) | 12.5" x 12" x 6.5" (31.8 cm x 30.5 cm x 16.5 cm) |
| Weight | 12.75 lbs. (5.78 kg) |
| System Warranty | One year from purchase |
| Bulb Warranty | Ignition warranted for 2,000 hours |

* For customers in Europe, the appropriate power cord will be added.

** As measured with a Dymax ACCU-CAL™ 50 Radiometer (320-395 nm) and lightguide simulator. Excessive on/off cycles and improper cooling may affect the bulb degradation and therefore no warranty is expressed or implied.

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| Recommended Lightguides (sold separately) | | | | |
|---|--|-------------------|---|--|
| Part Numbers | Lightguide Description (all noted are liquid filled, quartz fiber are also available) | | Typical Initial Intensity ¹ (W/cm ²) | Typical Intensity at 2,000 Hours ¹ (W/cm ²) |
| 5720 | Single pole | 5 mm x 1 Meter | 17.0 | 8.0 |
| 5721 | Single pole | 5 mm x 1.5 Meters | 16.0 | 7.5 |
| 5722 | Single pole | 8 mm x 1 Meter | 13.0 | 6.5 |
| 38476 | Two pole | 3 mm x 1 Meter | 10.5 | 5.2 |
| 38477 | Three pole | 3 mm x 1 Meter | 9.0 | 4.5 |
| 38478 | Four pole | 3 mm x 1 Meter | 7.4 | 3.7 |

¹ As measured with a Dymax ACCU-CAL™ 50 radiometer (320-395 nm) and lightguide simulator. Excessive on/off cycles and improper cooling may affect bulb degradation and therefore no warranty is expressed or implied.

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| Accessories | |
|--|---|
| Rod Lenses (rod lenses require an 8-mm lightguide) | 38699 2" x 2" Area (~100 mW/cm ²) |
| | 38698 5" x 5" Area (~30 mW/cm ²) |
| Collimator Lenses (40° focused output) | 62649 3 mm Lightguide Tip |
| | 62651 5 mm Lightguide Tip |
| Angled Terminators for Lightguides | 39029 3 mm/60° |
| | 39030 3 mm/90° |
| | 38042 5 mm/60° |
| | 38049 5 mm/90° |
| Mounting Stand | 39700 Fits 3-mm, 5-mm and 8-mm lightguides |
| Radiometer | 39560 ACCU-CAL™ 50 Radiometer for measuring the UV intensity of spot lamps, flood lamps, and conveyor systems |
| UV-Blocking, Over-the-Glasses Eye Protection* | 35284 Clear |
| | 35285 Tinted |
| | 35286 Dark Tint |

* For data sheets related to these products, please refer to the manufacturer.
(35284 - MCR Safety, TK110, TK110AF | 35285 - MCR Safety, TK112 | 35286 - MCR Safety, 98150)

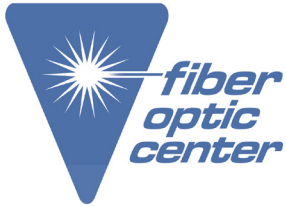
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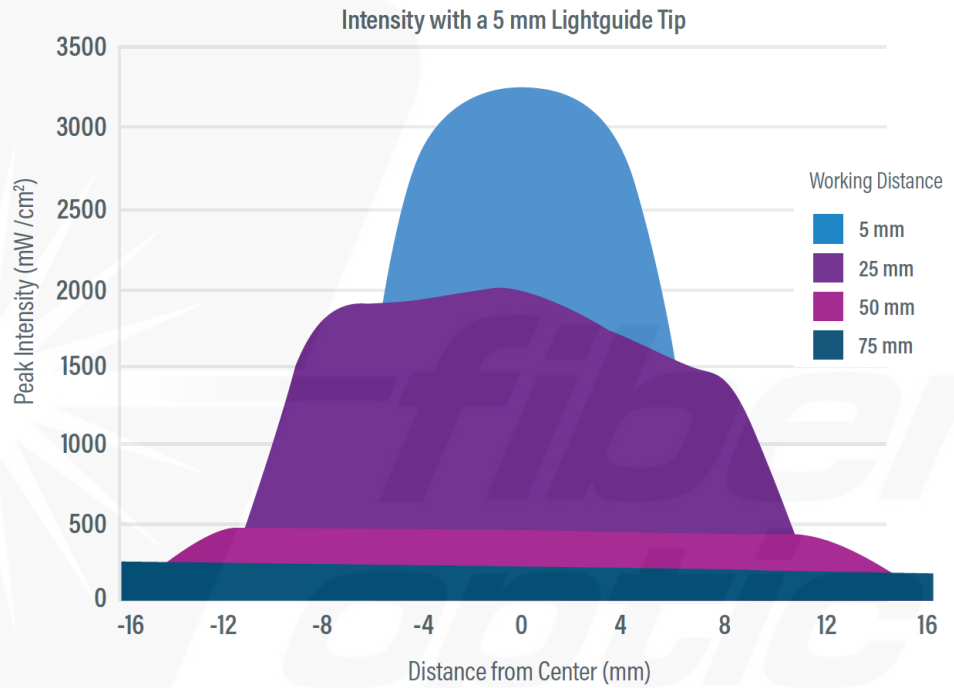
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Lightguide End with Collimator Lens



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Please note that most light-curing and dispensing system applications are unique. Dymax does not warrant the fitness of the product for the intended application. Any warranty applicable to the product, its application and use is strictly limited to that contained in Dymax standard Conditions of Sale published on our website. Dymax recommends that any intended application be evaluated and tested by the user to ensure that desired performance criteria are satisfied.

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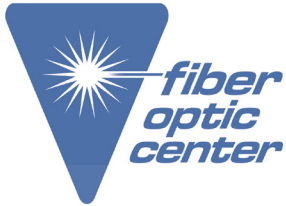
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BlueWave® MX-150 LED Spot-Curing System

High-Intensity Curing System with the Flexibility of Multiple Systems

- LED chip located in the emitter, not the controller, for more consistent intensity
- Available with three wavelength emitters - 365, 385, & 405 nm
- One controller controls up to 4 emitters
- Controller has touchscreen interface with full keyboard
- Has the ability to save curing programs so they can be easily recalled
- PLC interface

The BlueWave® MX-150 curing system provides manufacturers with the curing flexibility they need, in a smaller, more efficient design. The unit is comprised of two main parts, a controller with an easy-to-use touchscreen interface and a high-intensity LED emitter. Curing energy is created using an LED chip in the emitter, unlike traditional spot-cure systems, where it is located in the controller. Locating the LED chip at the point-of-cure provides more consistent curing by addressing potential intensity loss caused by the use of long or bent lightguides. The controller can run up to four emitters independently.

The system can be truly tailored to users' curing needs – allowing them to choose from three different wavelength LED emitters (365, 385, or 405 nm) so optimal cures are achieved. Users also have endless set up flexibility; for automated curing processes, the emitter can be easily mounted to robotic arms or further from the controller without fear of intensity variations. When used as a bench-top curing system, the unit can be paired with a stand and shielding or a lightguide can be connected to the system for specialized applications.



PRODUCT BULLETIN | BLUEWAVE® MX-150

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System Features & Benefits

| Features | Benefits |
|---|--|
| High intensity of up to 40 W/cm ² | <ul style="list-style-type: none"> • Quickly cures a variety of materials. |
| LED emitters available in 365, 385, or 405 nm wavelengths | <ul style="list-style-type: none"> • Compatible with a variety of UV and visible light-curable materials • Wavelength flexibility allows co-optimization of adhesive and curing system for optimal cure |
| LED chip located in the emitter, not the controller | <ul style="list-style-type: none"> • Consistent intensity • Mounted emitter saves the cost of lightguides • Eliminates potential intensity loss from long or bent lightguides • Easily mounted to robotic arms with no intensity variation • Emitter can be mounted closer to application, while the controller remains close to the operator |
| One controller runs up to four emitters | <ul style="list-style-type: none"> • Reduces the number of controllers required • Emitters can be added to grow with your application • Each emitter can be controlled independently of the others with four separate work stations from a single controller • Reduces equipment footprint and cost. |
| Admin and Production Modes | <ul style="list-style-type: none"> • Production mode for simple on/off operation • Curing programs can be saved and easily recalled • Units can be password protected so only the production mode can be accessed by workers |
| Touch screen with full keyboard | <ul style="list-style-type: none"> • Improved user interface • Curing programs can be easily entered, stored, and recalled when needed |
| Compatible with 3- and 5-mm lightguides with Wolf connector | <ul style="list-style-type: none"> • Utilizes standard/readily available lightguides |
| Instant on-off | <ul style="list-style-type: none"> • No warm-up period • More energy efficient |
| Efficient LED temperature management and system monitoring | <ul style="list-style-type: none"> • Maximized continuous operation without overheating • Comfortable hand-held operating temperature • Temperature monitoring assures maximum LED life • Checks presence of lightguide or other delivery optic |
| PLC interface | <ul style="list-style-type: none"> • Easily incorporated into automated systems |

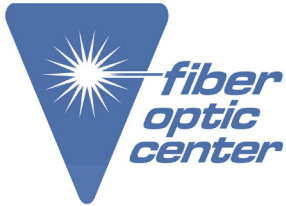
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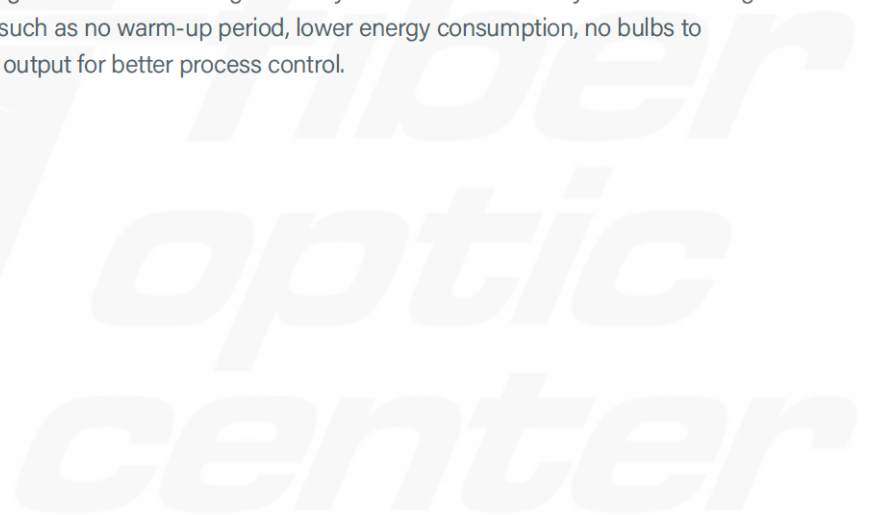
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Admin and Production Modes

Admin mode fully unlocks the device and allows for setting curing time and intensity cycles. Each individual curing cycle can be entered and saved as a program and recalled when needed. The production mode is designed for simple operation by manufacturing personnel. Settings and access to admin mode can be password protected using the full QWERTY keyboard.

LED Light-Curing Technology

Dymax LED spot-curing systems generate curing energy using high-intensity LEDs instead of conventional metal-halide or mercury-arc lamps. The relatively narrow frequency band of energy emitted by LEDs results in cooler substrate temperatures compared to traditional UV-style lamp systems, making them ideal for curing thermally sensitive materials. Dymax LED-curing systems offer many energy and cost-saving benefits, such as no warm-up period, lower energy consumption, no bulbs to change, and more consistent frequency and intensity output for better process control.



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Compatible Materials & Applications

The BlueWave MX-150 is ideally suited for a number of applications in the medical, consumer electronics, automotive, aerospace and defense, optical, and appliance industries. The chart below displays some of the materials commonly used in those industries and where the BlueWave MX-150 can be considered as a curing system.

| Materials | | |
|-------------------------|---|---|
| Adhesives |  | ✓ Medical device (catheter, needles, tube set, facemask) assembly; glass bonding (stemware, furniture, etc.); automotive headlamp assemblies; camera module assemblies; appliance assembly; speaker assembly; optical display bonding |
| Conformal Coatings |  | ✓ Printed circuit board protection in aerospace avionics, automobiles, appliances, and consumer electronics; camera module assembly; electric vehicle battery management systems |
| Potting Compounds |  | ✓ Tamper proofing; potting electrical connectors, switches, and sensors; cable potting; medical potting* |
| Maskants |  | ✓ Surface protection for turbine blades and rotorcraft components during processing; protection for surfaces during metal finishing processes; protection of orthopaedic parts during processing; protection of PCB components for consumer electronics, automotive electronics, avionics, and medical electronics; protection for surfaces during metal finishing processes* |
| Encapsulants |  | ✓ Chip encapsulation on PCBs used in automobiles, plane and helicopter control panels, consumer electronics, appliance, and medical diagnostic equipment* |
| Ruggedization Materials |  | Flex circuit reinforcement; wire tacking; ball grid array (BGA) ruggedization; Videos graphics arrays (VGA) ruggedization; shock absorption; underfill alternative |

✓ BlueWave MX-150 compatible with this material

* Materials cured with BlueWave MX-150 to be evaluated in customer application to their performance requirements.

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Ordering Information

A complete BlueWave MX-150 system features a controller/power supply and LED emitter. Emitters are available in 365, 385, and 405 nm wavelengths. Lightguides and other accessories noted below can be added for specific applications. Components are sold separately.

| Part Numbers | |
|---|---|
| LED Emitters Note: 5-mm lightguide simulator comes with every emitter. | |
| BlueWave® MX-150 Emitter | 42336 RediCure® (365 nm) 42337 PrimeCure® (385 nm) 42338 VisiCure® (405 nm) |
| Controllers Note: Interconnect cables to connect controller to emitters and foot pedals sold separately. | |
| 2-Channel Controller | 43185 North American Power Cord 43186 Asian Power Cord (Type G) 43184 No Power Cord** |
| 4-Channel Controller | 43182 North American Power Cord 43183 Asian Power Cord (Type G) 43181 No Power Cord** |
| BlueWave® MX-MIM | 43299 Machine Interface Module |
| Lightguides and Optics | |
| Lightguides* | 36619 Single-Pole, 3-mm x 1,000 mm 35102 Single-Pole, 5-mm x 1,000 mm 37043 2-Pole Liquid-Filled, 3-mm x 1,000 mm 36238 Single-Pole, 5-mm x 1,500 mm 37044 3-Pole Liquid-Filled, 3-mm x 1,000 mm 38998 Single-Pole, 5-mm x 2,000 mm 35101 Single-Pole, 5-mm x 500 mm |
| Lightguide Conversion Kit | 42932 Converts to D-Style lightguides – For older MX-150 units with serial numbers lower than 1000. 60514 Converts to D-Style lightguides – For newer MX-150 units with serial numbers of 1000 or higher. |
| Lightguide Simulators | 36987 Lightguide Simulator, 5-mm Diameter |
| Angled Terminators | 39029 60° for 3-mm Lightguide 39030 90° for 3-mm Lightguide 38042 60° for 5-mm Lightguide 38049 90° for 5-mm Lightguide |
| Optics | 41148 Adjustable Taper Focusing Lens (5 mm) |

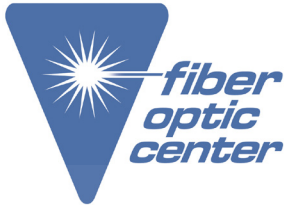
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| Accessories | |
|--|---|
| Interconnect Cables | 43453 12-Inch Interconnect Cable Assembly |
| | 42287 2-Meter Interconnect Cable Assembly |
| | 42889 5-Meter Interconnect Cable Assembly |
| Foot Pedal | 43106 Foot Switch |
| | 43496 Foot Switch, 10-Meter Extended Cable |
| Stands and Shielding | 42390 Single Emitter Mounting Stand |
| | 42909 Single Emitter Mounting Kit |
| | 43070 MX Emitter Stand - Holds up to 4 Emitters and Includes an Acrylic Back Shield |
| | 43019 MX Emitter Stand Kit - Converts the BlueWave® LED Mounting Stand (41268) to an MX Emitter Stand (43070) |
| | 41395 3-Sided Acrylic Shield - Works with Stand 43070 |
| 60868 Dual Emitter Mount for MX Controller | |
| Radiometers | 40505 ACCU-CAL™ 50-LED Radiometer Kit for LED Spots, Floods, and BlueWave® QX4 |

* All standard Wolf entrance-fitting lightguides will physically couple to this system, but only configurations listed above have been tested and verified to be fully functional.

** The appropriate power cord will be added for European customers.

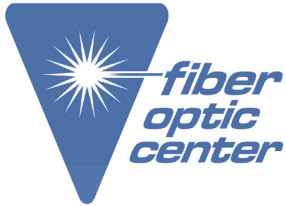
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System Specifications

| Property | Specification |
|------------------------|--|
| Output Frequency | RediCure - 365 nm PrimeCure - 385 nm VisiCure - 405 nm |
| Intensity Output* | RediCure - 24 W/cm ² PrimeCure - 38 W/cm ² VisiCure - 36 W/cm ² |
| Power Supply Input | 100-240V ≈ 2.5A, 50-60Hz |
| LED Timer | 0 to 999 seconds |
| LED Activation | Foot pedal, LCD touch screen, or PLC |
| Cooling | Air cooled |
| Dimensions (H x W x D) | Controller: 5.14" x 7.19" x 7.35" (13.1cm x 18.3cm x 18.7cm) Emitter: 7.9" x 1.97" x 1.97" (20.06 cm x 5 cm x 5 cm) |
| Weight | Controller: 2.6 lbs. (1.18 kg) / Emitter: 1.4 lbs. (0.64 kg) |
| Unit Warranty | 1 year from purchase date |
| Operating Environment | 10-40°C, 0-80% relative humidity, non-condensing |

* Measured using a Dymax ACCU-CAL™ 50-LED Radiometer at a distance of 0 mm.

Figure 1. BlueWave MX-150 Emitter Dimensions

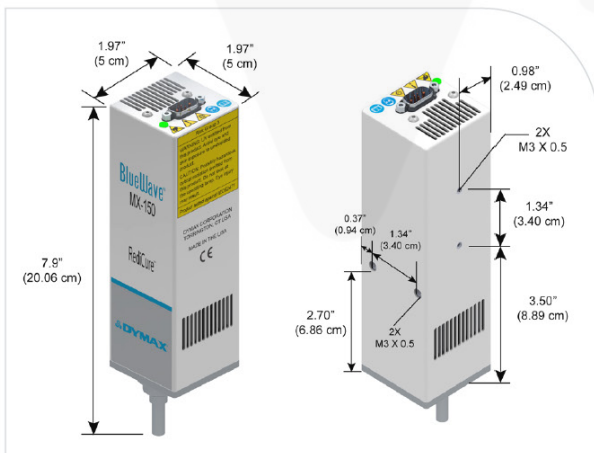
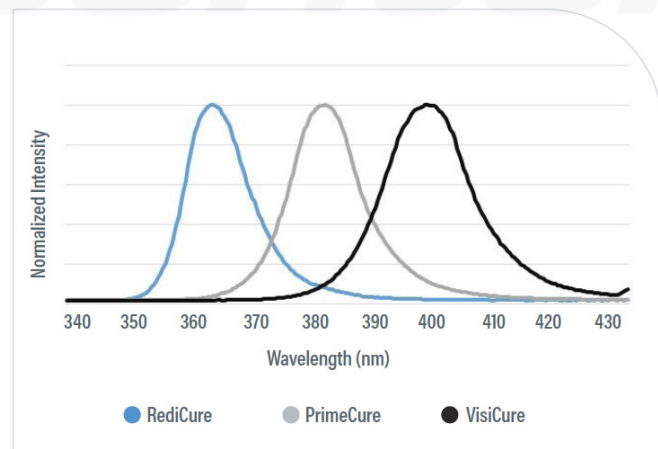


Figure 2. BlueWave MX-150 Spectral Output Chart



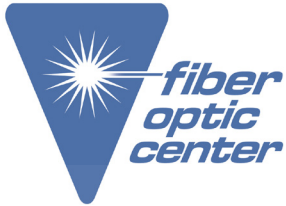
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Dymax

Product Name:
Dymax 90° (degree) Terminator for 3mm UV Lightguides

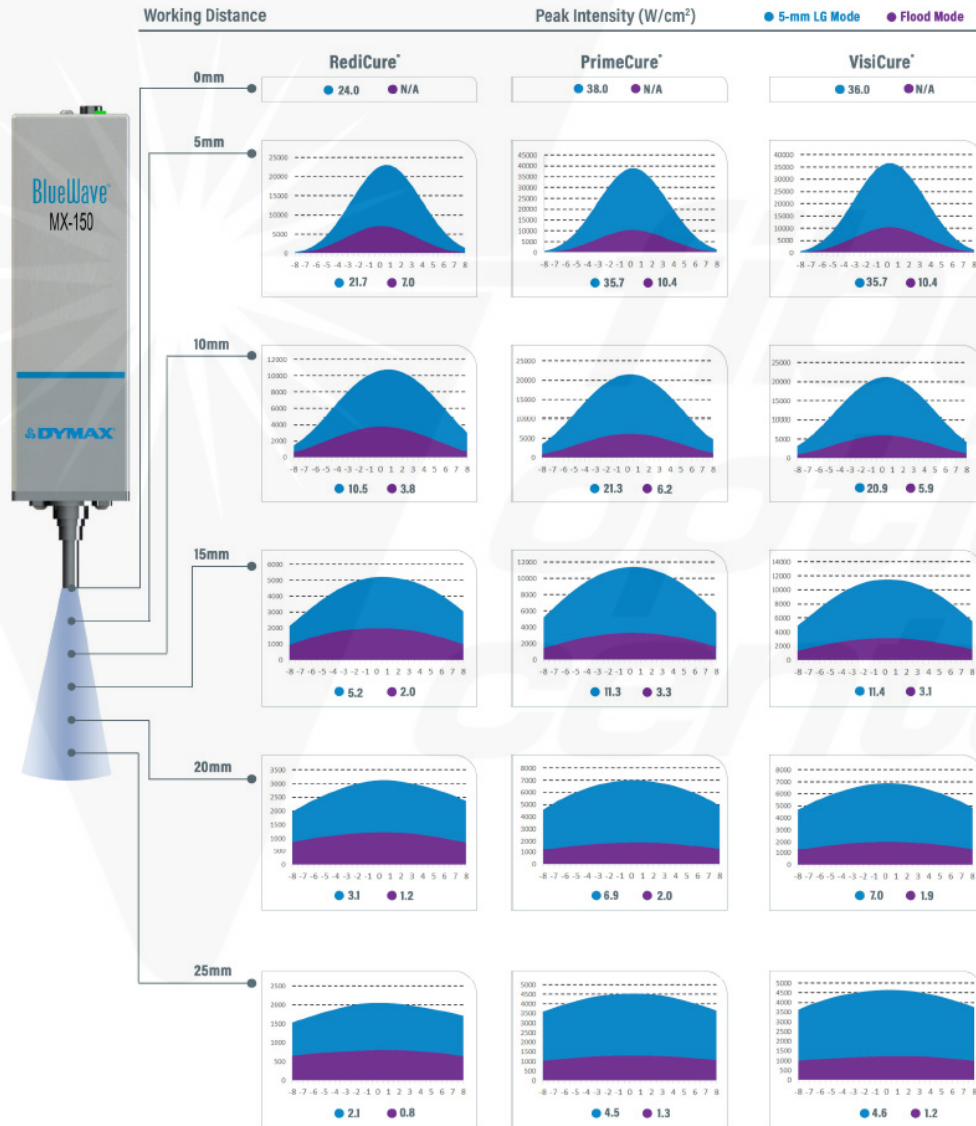
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System Intensity Using Emitters

Figure 3. Emitter Intensity at Various Working Distances

Note: Measured with an ACCU-CAL™ 50-LED in both 5-mm lightguide (LG) and flood source modes*



* Dymax recommends using the 5-mm lightguide source mode on the ACCU-CAL™ 50-LED, when measuring at 0 mm with the provided adapter in the ACCU-CAL kit. If measurements are made at greater working distance, Dymax recommends using the flood mode source for measurements. For convenience, both numbers are provided in this chart.

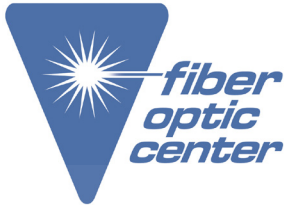
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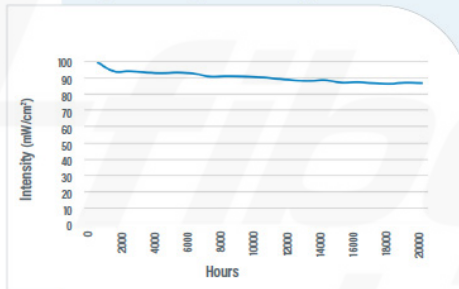
Degradation/Life Testing

Unlike broad-spectrum lamps, LED curing systems do not have bulbs that require regular replacement. Instead, LED curing systems operate with high-intensity LEDs. The instant on/off functioning of LEDs greatly increases the life of these LED systems. Long-term life testing of BlueWave MX-150 systems was conducted for 5,000 continuous hours at 100% and 70% intensity. As noted in the graphs below, LED degradation was found to be very low for all emitter wavelengths and intensities.

RediCure® (365 nm) Emitters

- 100% Intensity resulted in 0.6% degradation per 1,000 hours

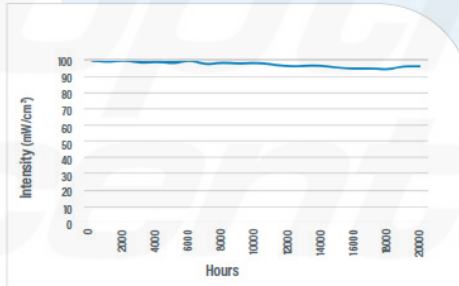
Figure 4. LED Degradation Testing - RediCure®



PrimeCure® (385 nm) Emitters

- 100% Intensity resulted in 0.3% degradation per 1,000 hours

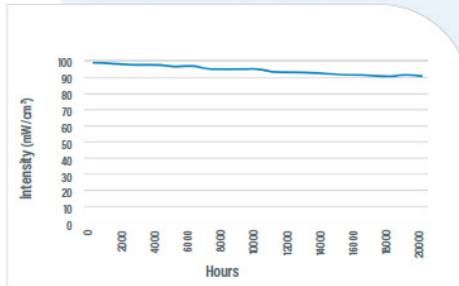
Figure 5. LED Degradation Testing - PrimeCure®



VisiCure® (405 nm) Emitters

- 100% Intensity resulted in a 0.2% degradation per 1,000 hours

Figure 6. LED Degradation Testing - VisiCure®



Note: Testing conducted at 70°F +/-3°F and 30% +/-10% Relative Humidity

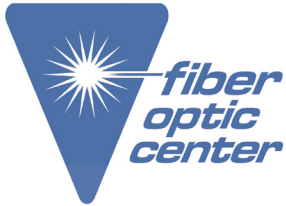
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Manufacturer Part Number: 39030

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Optional Lightguide Configuration

Dedicated optics are not necessary to accommodate larger irradiation areas such as an 8-mm diameter spot. These larger areas can be achieved by increasing the distance between the emitting end of the standard 5-mm optic to ~10 mm.

Figure 7. BlueWave MX-150 with 5-mm Lightguide Simulator, Measured 10 mm from the Surface of the Radiometer

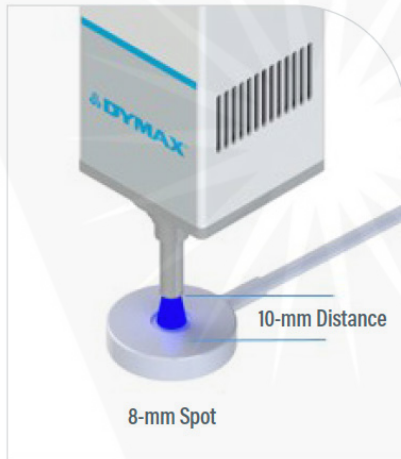
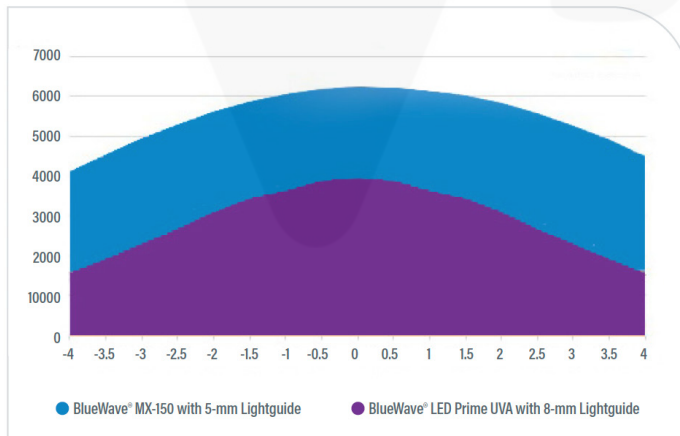


Figure 8. BlueWave LED Prime Using a 8-mm Lightguide, Measured Directly on the Surface of the Radiometer



Both cover the same target cure area, however, the new BlueWave MX-150 provides a much higher intensity, see chart below.

Figure 9. Intensity Comparison



Note: Intensity measured with an ACCU-CAL™ 50-LED radiometer.

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The system can be outfitted with a 3 or 5-mm Wolf-style lightguide. A 5-mm lightguide/simulator couples perfectly with the 5-mm aperture of the LED chip (Figure 10) while a 3-mm lightguide only transfers part of the UV light emitted by the LED chip (Figure 11), resulting in lower efficiency. See the intensity chart on the next page for more information.

Figure 10. Aperture with 5-mm Lightguide



Figure 11. Aperture with 3-mm Lightguide



The high intensity of the BlueWave MX-150 can be illustrated by comparing a 3-pole lightguide (PN 37044) to a single-pole lightguide on a Dymax BlueWave LED Prime UVA or BlueWave® LED VisiCure® unit. The intensities of each of the 3 poles on the BlueWave MX-150 is higher in intensity than a single-pole lightguide on those units:

| | Average Intensity, W/cm ² | |
|--------------------|--|--|
| | BlueWave MX-150 with 3-Pole Lightguide | BlueWave LED Prime with Single-Pole Lightguide |
| RediCure®, 365 nm | 15 | N/A |
| PrimeCure®, 385 nm | 24 | 15 |
| VisiCure®, 405 nm | 22 | 15 |

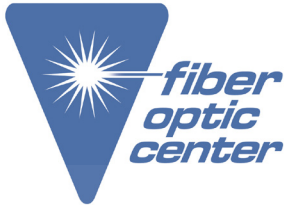
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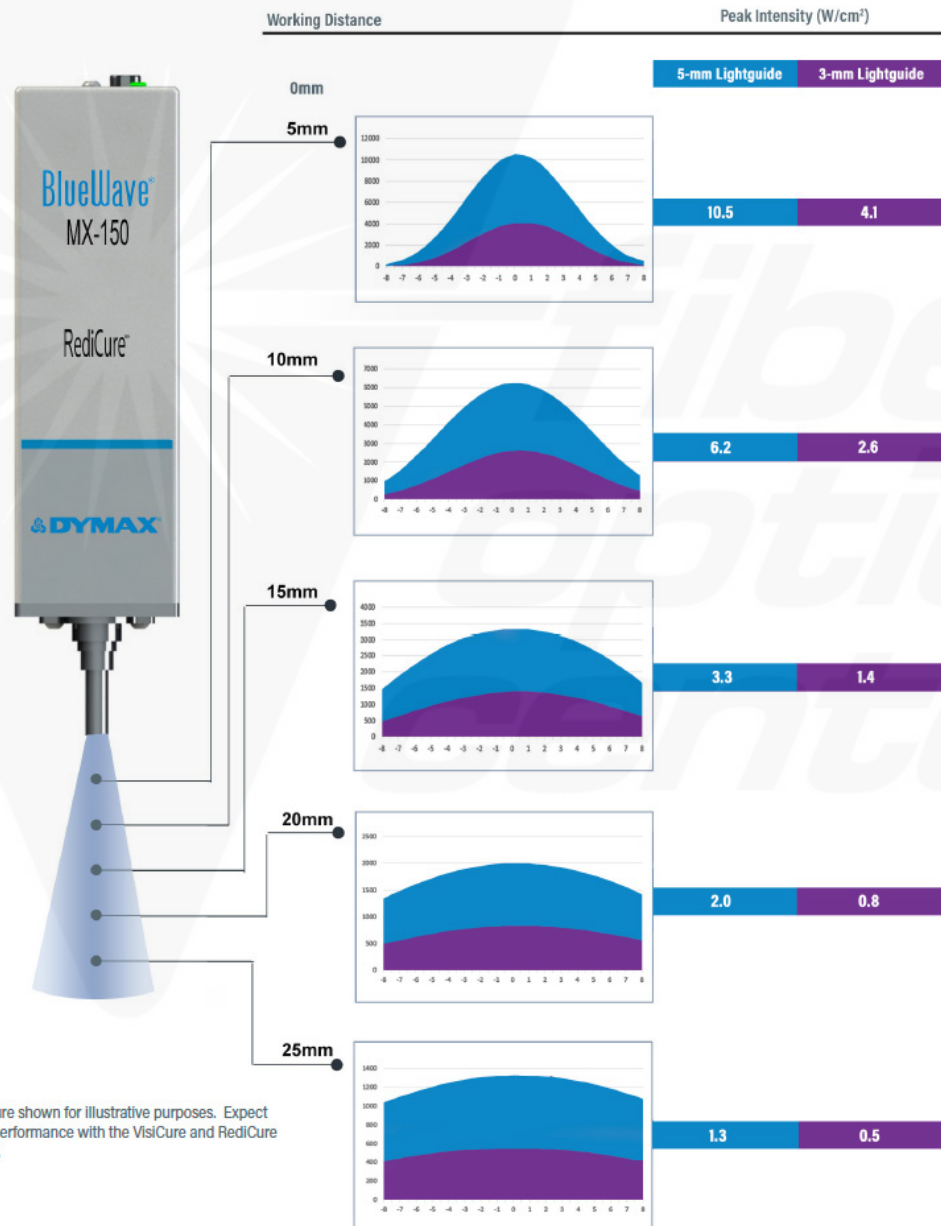
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Figure 12. PrimeCure, 385 nm - Intensity with a 3- or 5-mm lightguide at Various Working Distances

Note: Measured with an ACCU-CAL™ 50-LED in flood mode.



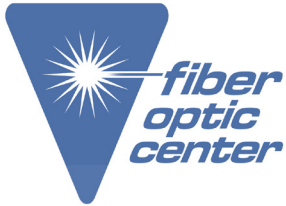
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Accessories

Angled Terminators

Angled terminators can be attached to 3 and 5-mm liquid lightguides to provide significant value when delivering curing energy to hard to reach and semi-hidden bond lines.

- Compact, cost effective design
- Available in 60° and 90° versions
- Easy to connect to the BlueWave® MX-150 emitter
- Optimized energy delivery
- Possible for curing in motion and dynamic curing
- Better uniformity with three lightguide terminators or a tri-furcated lightguide, as compared with a bi-furcated lightguide
- Easily mounted to fixture with close working distance

| Part Number | Size | Angle | Approximate Loss |
|-----------------------|------|-------|------------------|
| 39029 | 3 mm | 60° | 35% |
| 39030 | 3 mm | 90° | 30% |
| 38042 | 5 mm | 60° | 35% |
| 38049 | 5 mm | 90° | 30% |

Figure 13. 5-mm, 90° Terminator (PN 38049)

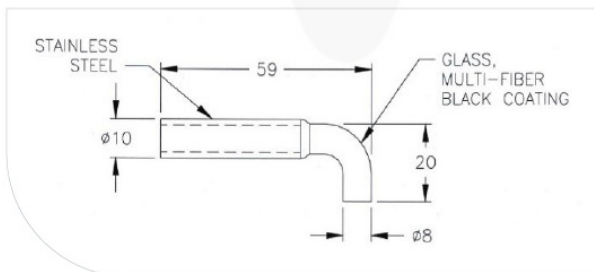
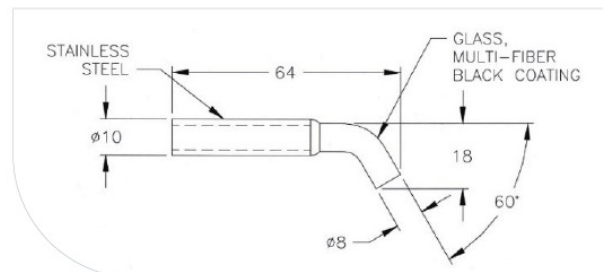


Figure 14. 5-mm, 60° Terminator (PN 38042)



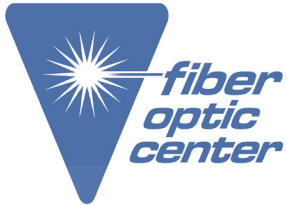
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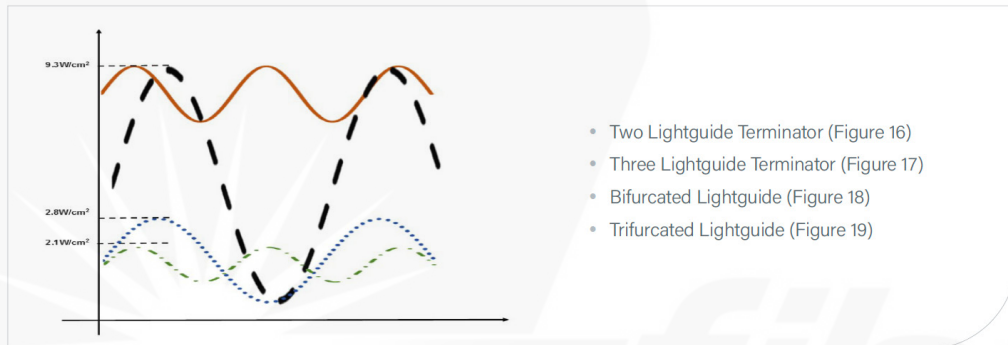
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Figure 15. Typical Uniformity on the Perimeter of the Cylindrical Curing Target*



* The uniformity and intensity vary with the diameter of the curing target and working distance. The intensity is measured using the PrimeCure® and ACCU-CAL™ 50-LED with flood mode, at 0-mm working distance.

Figure 16. Two Lightguide Terminators

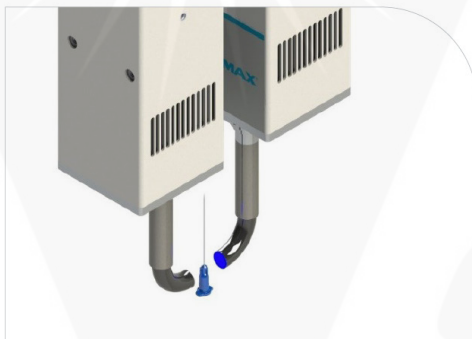


Figure 17. Three Lightguide Terminators

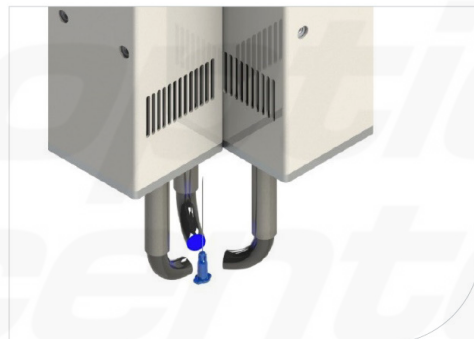


Figure 18. Bifurcated Lightguide



Figure 19. Trifurcated Lightguide



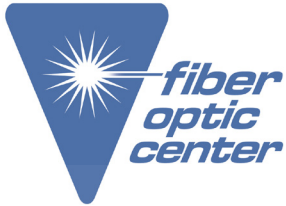
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Radiometers

The typical intensity output degradation rate of the unit when run at 100% power and a 100% duty cycle is approximately 0.7% per 1,000 hours of run time. As with any type of energy source, environmental and operating conditions will have a direct effect on actual degradation rates. Intensity on the BlueWave MX-150 can be measured with a standard ACCU-CAL™ 50-LED. For applications with lightguides, the appropriate standard lightguide adapters should be used and "Lightguide" mode should be selected in the "Source-Mode" section of the optometer. For flood applications, the ACCU-CAL™ 50-LED can be used in flood mode.

Adjustable Taper Focusing Lens

The adjustable taper focusing lens (PN 41148) can be attached to the BlueWave® MX-150 to provide a focused and adjustable curing area. Uniformity is increased at a distance of 10-20 mm, while intensity is maximized at a 40-50 mm working distance.

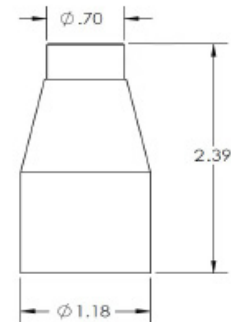
Figure 20. ACCU-CAL™ 50-LED



Figure 21. Adjustable Taper Focusing Lens



Figure 22. Intensity Measurements, BlueWave MX-150 PrimeCure® Outfitted with Adjustable Taper Shoulder Focusing Lens (PN 41148)



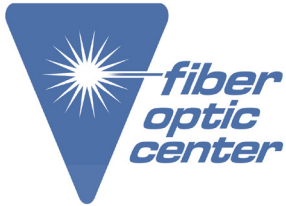
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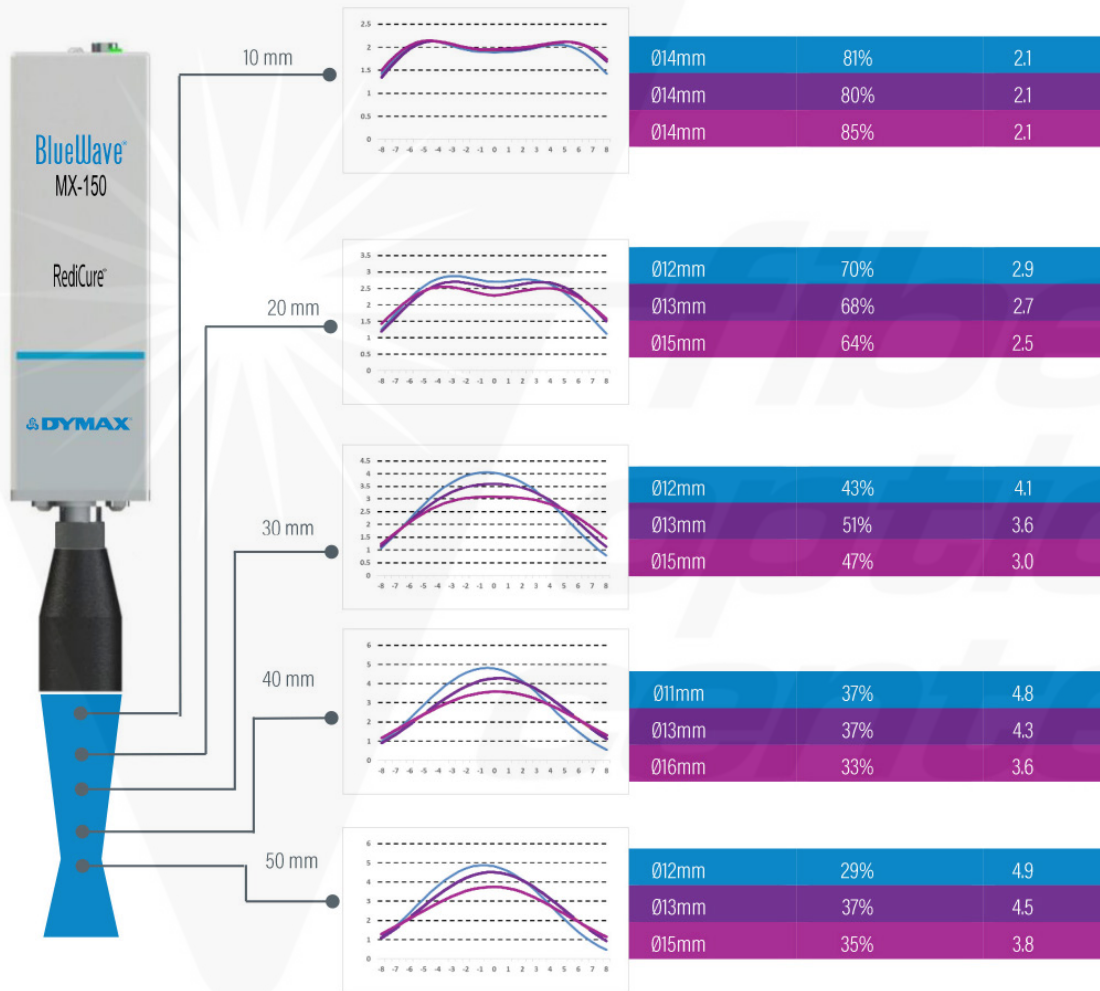
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Figure 23. Intensity Measurements, BlueWave MX-150 PrimeCure® Outfitted with Adjustable Taper Shoulder Focusing Lens (PN 41148)

Measured with an ACCU-CAL 50-LED in flood source modes*



* Dymax recommends using the flood mode source for measurements. The units of the X-axis in the charts are millimeters (mm). The spot size varies with both the distance of the emitter and the focus change of the lens. By referring this chart, the best combination of spot size, uniformity and intensity can be obtained by adjusting the emitter distance and focus of the lens.

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