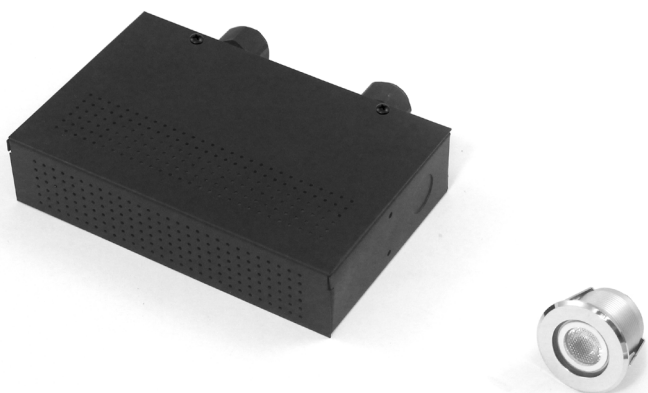# BATHOLOGY

rediscover bathing

Spectrum 441

Sauna White Light System

Installation and Operation Manual

Contents

Installation Considerations

Please read this manual in its entirely prior to installation

IMPORTANT: DO NOT HOT SWAP ANY ELECTRICAL COMPONENTS. This will void the warranty, and likely cause the product to fail.

CAUTION   Carefully review all installation options and instructions before proceeding.

CAUTION   For safety purposes, use safety goggles at all times.

⚠ **WARNING**   Do not hot swap any electrical components. This will void the warranty, and likely cause the product to fail. **Fully disconnect the system from its power source before swapping any electrical components.**

⚠ **WARNING**   Check for piping / electrical before cutting or drilling.

⚠ **WARNING**   Some electrical components are not waterproof.

⚠ **WARNING**   If there is any risk of uninsulated electrical connections in your wall / ceiling area, use insulating gloves.
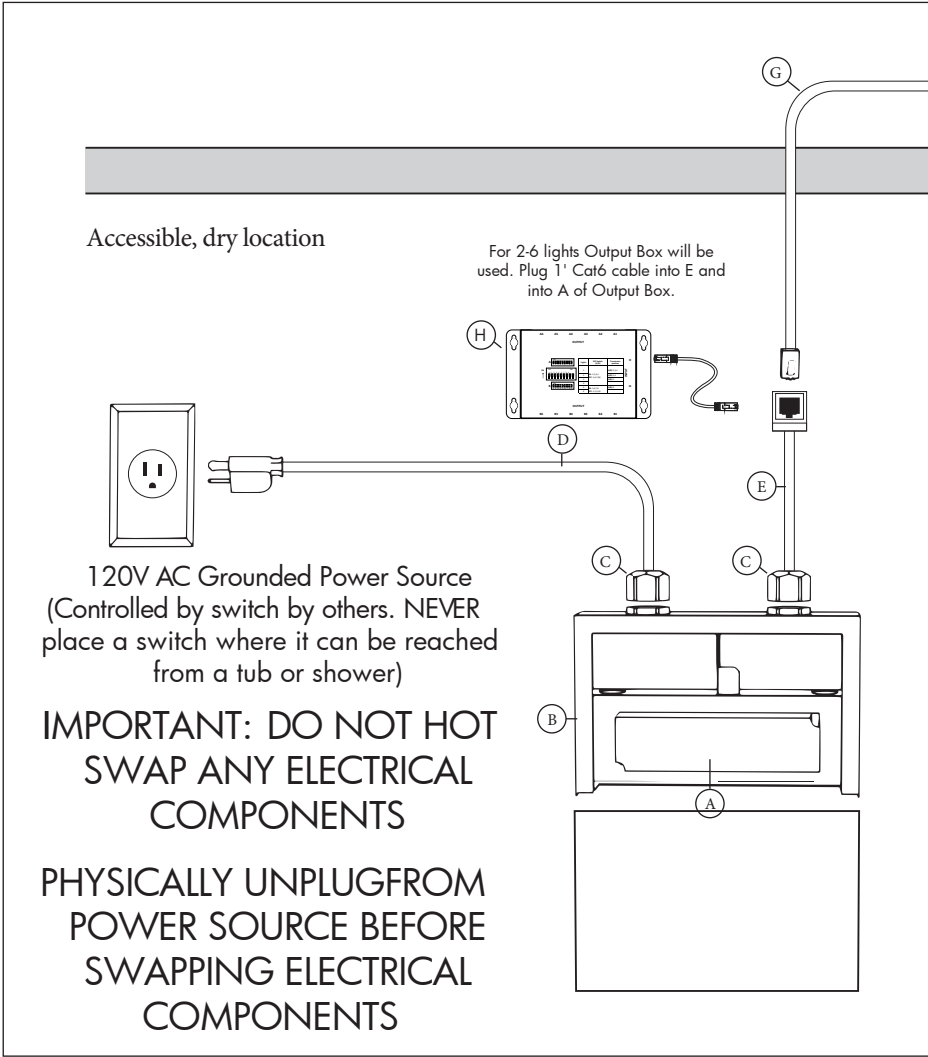
⚠ **WARNING**   The Spectrum 441 Sauna White Light System can be controlled by the use of a light switch provided by others. NEVER place a switch where it can be reached from a tub or shower.

! IMPORTANT   All wiring must be done in accordance with National Electric Code and local building code.

! IMPORTANT   The Spectrum 441 White Light System should be installed by a licensed, qualified electrician.

! IMPORTANT   Consider light placement carefully. The fixture(s) for this system should be placed to avoid direct contact with the bather's eyes.
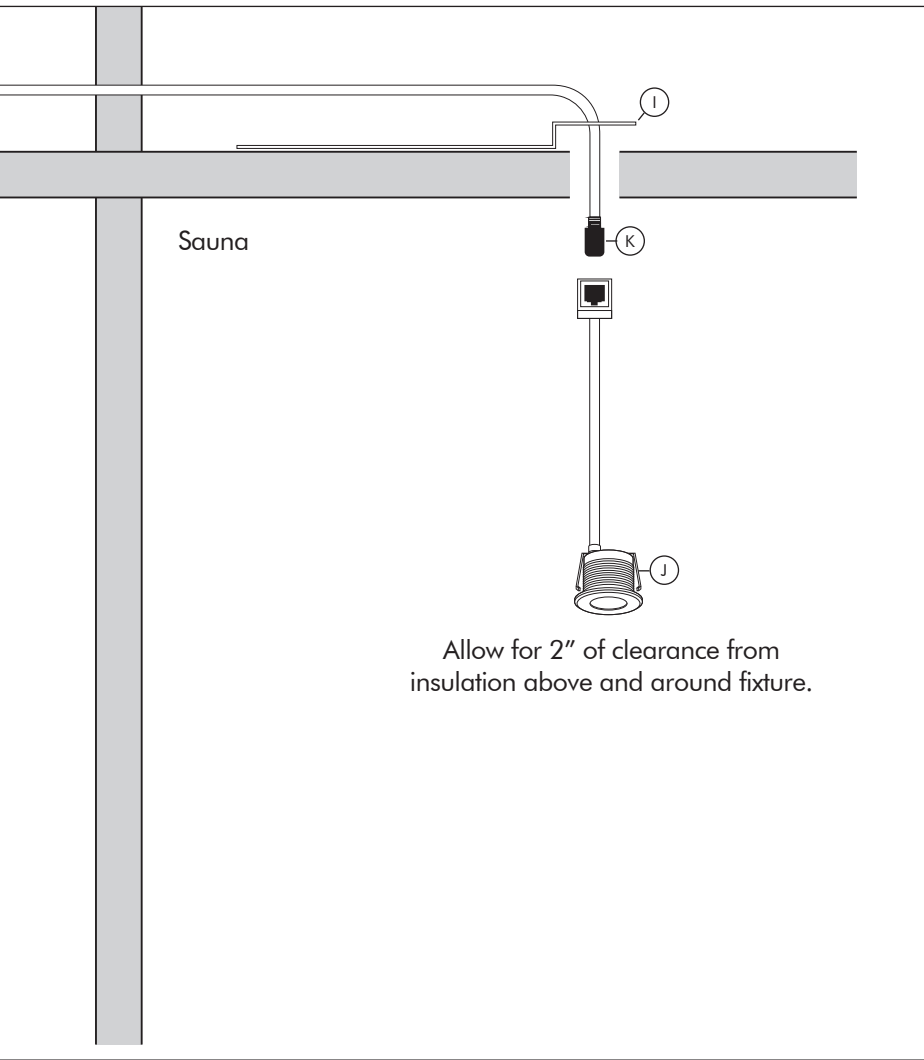
Installation

Accessible, dry location

For 2-6 lights Output Box will be used. Plug 1' Cat6 cable into E and into A of Output Box.

120V AC Grounded Power Source (Controlled by switch by others. NEVER place a switch where it can be reached from a tub or shower)

IMPORTANT: DO NOT HOT SWAP ANY ELECTRICAL COMPONENTS

PHYSICALLY UNPLUGFROM POWER SOURCE BEFORE SWAPPING ELECTRICAL COMPONENTS

Package Includes

Item	Quantity	Description	Item	Quantity	Description
A	1	Driver		2	Enclosure Top Screws
	1	Screw		4	Screws / Anchors
	1	Locknut		4	Wire Nuts
B	1	Enclosure		1	Ground Connector
	1	Enclosure Top	C	2	Strain Relief Bushings

Sauna

Allow for 2" of clearance from
insulation above and around fixture.

Package Includes

Item	Quantity	Description	Item	Quantity	Description
D	1	Male NEMA Cable	H	1	Output Box
E	1	Light Cable	I	1*	Mounting Template
F	1	Cat6 Cable, 1'	J	1*	Brilliance Light Fixture
G	1*	Cat6 Cable, 25'	K	1*	Wire Fit Cap
				1	Silicone Sealant, 1 ounce

NOTE: Quantity with an * increases by one per each additional light purchased. Quantities
shown assume no additional lights purchased with Spectrum 441 system.

Spectrum 441

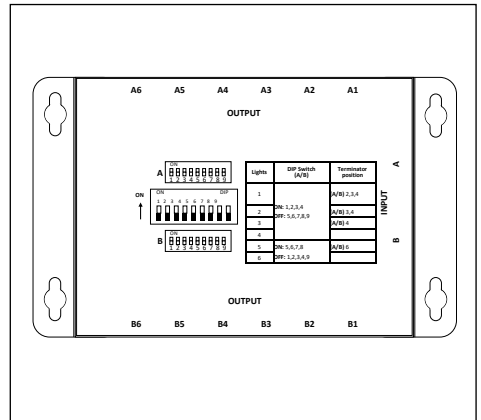## Installation (Continued)

IMPORTANT! DO NOT HOT SWAP ANY ELECTRICAL
COMPONENTS. It is possible to damage and likely
cause the product to fail.

1. Install a standard single gang
    electrical box in an accessible,
    dry location.

Accessible, dry location

120V AC Grounded
Power Source

2. Run a grounded 120VAC
    from the power supply to
    the accessible, dry location's
    electrical box.

3. Secure enclosure (B) to wall in
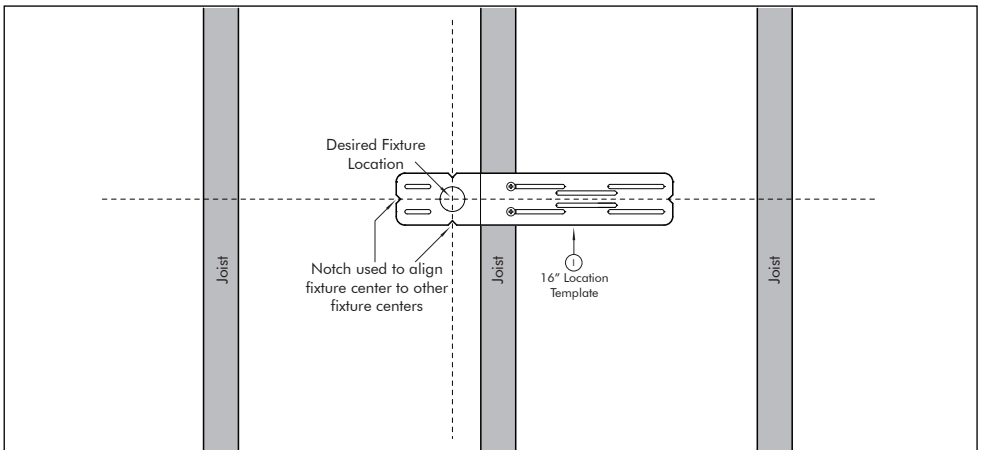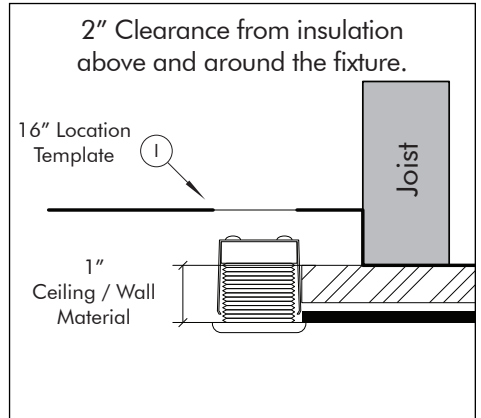   an accessible, dry location using
    provided screws / anchors.

Accessible,
dry location

Typical Installation

Brown - Black
Blue - White
Ground - GND

Black - Black
Red - White

Typical Installation

Accessible, dry
location

120V AC Grounded
Power Source

Typical Installation
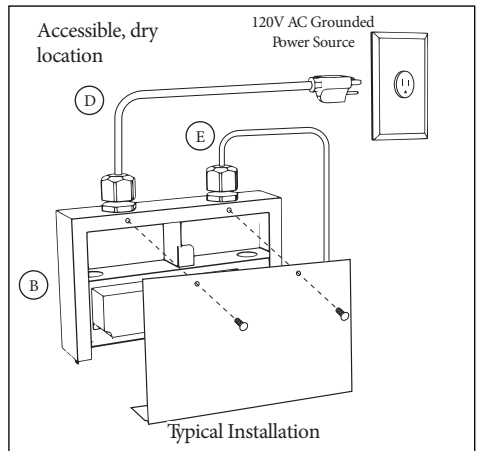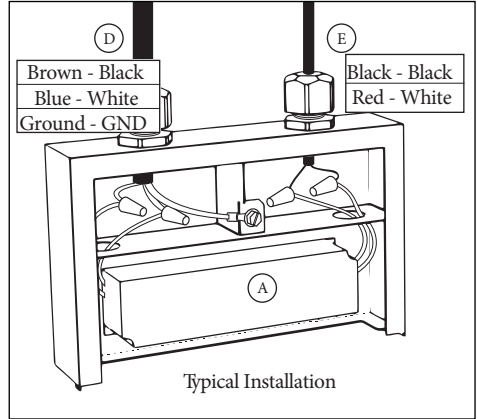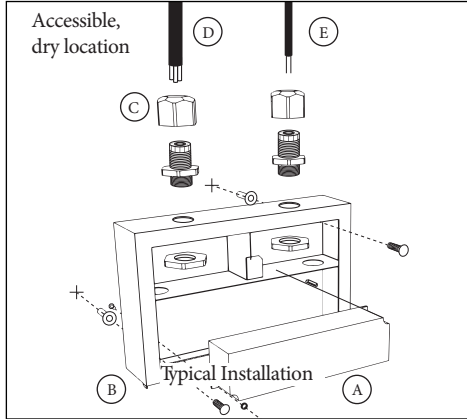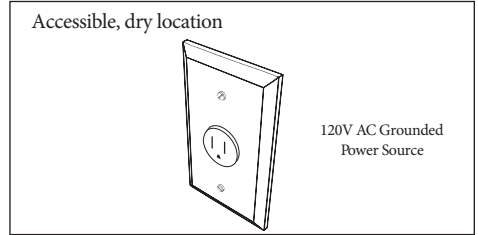
Installation (Continued)

4. Determine number of lights per input. Limit 6 lights per input.

5. Determine desired brilliance light fixture (J) location. Note: Fixture should be placed to avoid direct contact with the bather's eyes. Allow for 2" clearance from insulation above and around the fixture.


6. Optional: Mount 16" location template (I) to ceiling / wall framework. Use notches to quickly align desired location to other fixtures in the room.
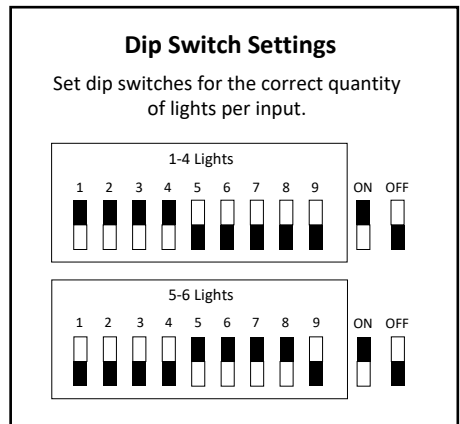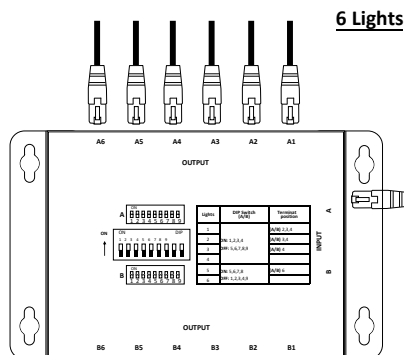
2" Clearance from insulation above and around the fixture.

16" Location Template

Joist

1" Ceiling / Wall Material

Desired Fixture Location

Notch used to align fixture center to other fixture centers

16" Location Template
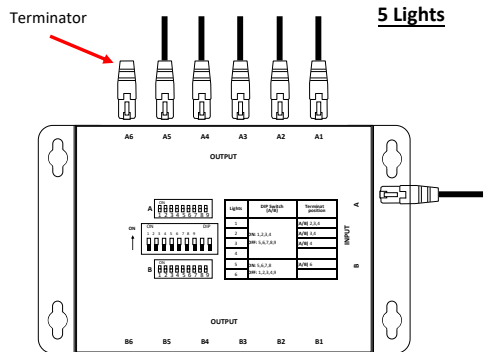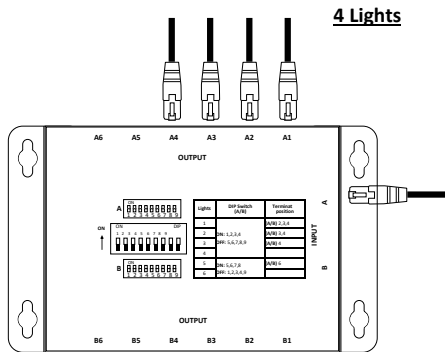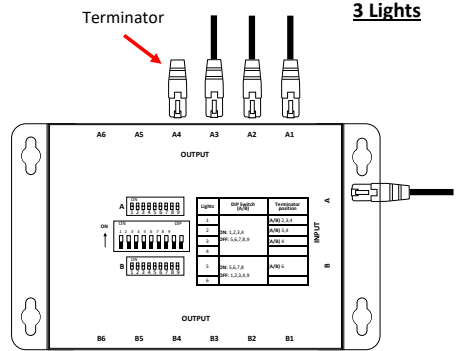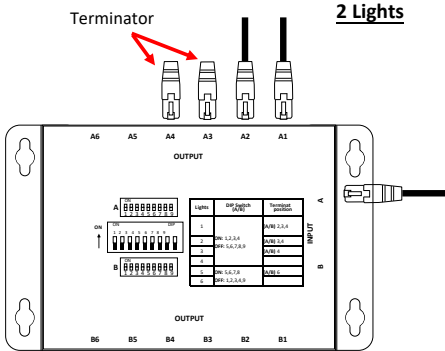
Joist

Installation (Continued)

7. Make a 1-5/8" hole in desired location.

8. Mount brilliance light fixture (J) to ceiling through 1-5/8" cut - out. Allow for 2" clearance from insulation above and around the fixture.

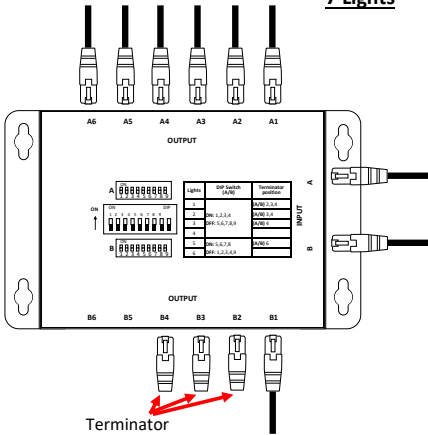9. Repeat steps 6 - 8 for each light.
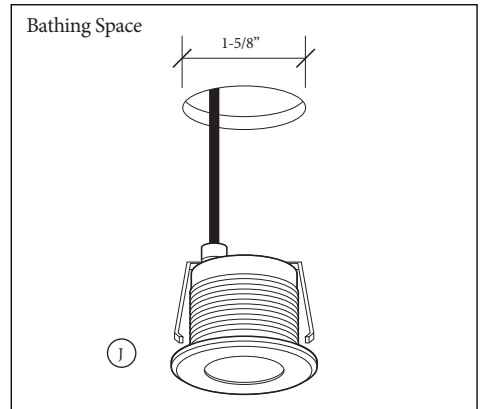
Product Care

For routine cleaning, simply use a soft damp cloth and common household soap. Use a damp cloth to wipe clean, then dry. Clean product frequently to avoid calcium deposits on surfaces. Use only mild soap.   Never use abrasive or cleaning containing alcohol, ammonia, hydrochloric   or phosphoric acids   as they may damage the product's finish. T o clean electrical components, gently wipe down using a dry cloth or duster. Never use a wet duster   , water, or any other liquid to clean the device.

2 Lights

Terminator

3 Lights

Terminator

4 Lights

5 Lights

Terminator

6 Lights

Dip Switch Settings

Set dip switches for the correct quantity of lights per input.

1-4 Lights

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
ON   OFF

5-6 Lights

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
ON   OFF

7 Lights

Terminator

8 Lights

Terminator

9 Lights

Terminator

10 Lights

11 Lights

Terminator

Spectrum 441
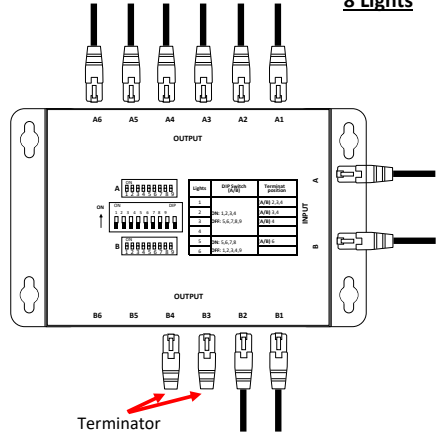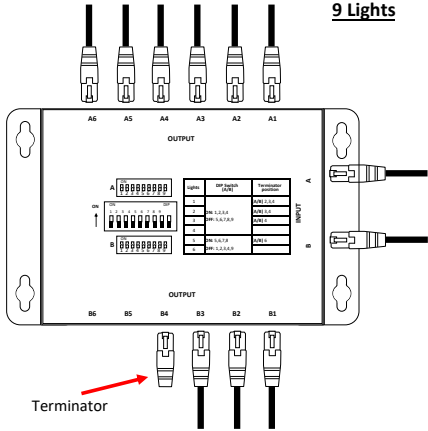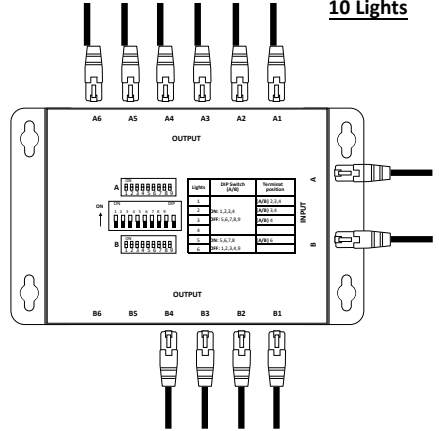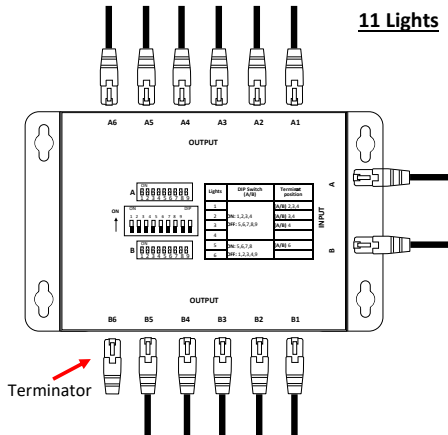
Specifications

Driver

Operating Voltage: 120 V AC

Output Voltage: 700mA

Power Consumption: 35W **Nominal**

Amperage: 1.1 Amps **Dimensions:** 5-7/8" W x 1-1/8" H x 1-5/8" D

Brilliance Fixture

Type: LED White 3500K

Operating Voltage: 12VDC

Maximum Input Cur rent: 700mA

LED: 1 x 3 Watt

Beam Angle: 35°

Trim Finish: Polished Stainless Steel

Housing Composition: First Grade Aluminum

Lens: Frosted, 1-7/32" Diameter

Lens Composition: Tempered Glass

Rough-in Cutout: 1-5/8" to 1-11/16"

Trim Dimension: 2-3/64" Diameter, 1/8" Profile

Body Dimensions: 1-15/32" Diameter x 1-7/8" Deep

Rating: IP68

Certifications: CE / RoHS / WEEE

Max Operating Temperature: 220°F when installed per instructions

Enclosure

Housing Composition: Steel, black powder coated finish

Dimensions: 7-3/4" W x 1-7/8" H x 4-7/8" D

Standards: NEMA 1

Listing: ETL, UL

Construction Template

Composition: Steel, Galvanized, Gauge 22

Dimensions: 15-1/8" L x 1/32" H x 3" D

Replacement Parts

Contact your Bathology representative for Spectrum 441 Sauna White Light System replacement parts.

800-957-2862

www.Bathology .com

Description	Part Number
Driver	Spectrum078
Enclosure	Spectrum079
Strain Relief Bushings	Spectrum077
Male NEMA Cable	Spectrum038
Cat6 Cable, 1'	210-BP031128
Cat6 Cable, 25'	210-BP031129
Output Box	210-BP031140
Mounting Template	Spectrum-68- Temp
Frosted LED White Light	Spectrum 107

Notes

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