



**DuraBrite Mini Pro Series** pushes the optical output to the next level while keeping the same aesthetics and a very compact form factor as the *Original Mini Series*.

Utilizing state-of-the-art LED technology and our proprietary control circuitry developed right here in New York, the *Mini Pro* shines 50% brighter than the *Original Mini*.

It manages to achieve a whopping 25,000 lumens with less than 9A of draw at 24VDC, all while maintaining all the superior field proven mechanical and thermal performance characteristics of the *Original Series*.

This beautiful, sleek, yet prominent design complements very well with the aerodynamic lines of recreational center consoles and it also serves as a versatile workhorse on commercial fishing vessels, making it our #1 seller by volume.

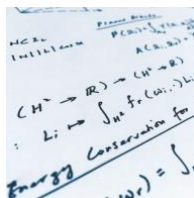
The *Mini Pro's* optical form factor yields top-notch real-world performance. Unlike regular light bars, it provides exceptional range and coverage with its carefully chosen and field-tested beam angles so you can see and be seen with ease from miles out. Finding buoys, identifying obstacles, and navigating in and out of the harbor can be carried out with absolute confidence. For ultimate glare control, you can use our newly released Mini Glare Control Shield to produce the most precise yet powerful beam.

The *Mini Pro* is our flagship model in this compact class. It makes a great upgrade to the *Mini* you have trusted for years and will work well together with any other DuraBrite on your vessel.

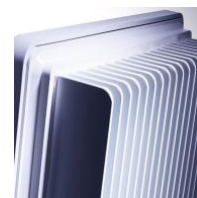
## Mini Pro – Shine with Authority



US Patented Optics



Light Shaping Technology



High Performance Materials



Advanced Venting System



Extreme Weather Resistance



Designed & Assembled In USA

## Optical & Electrical Characteristics (All ratings are at 25°C unless otherwise specified)

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LED Color, CCT	Typical = 5700K (Cool white)
Brightness	25,000 lm
Beam Angle	25 deg (Spot) 76 deg (Flood)
Operating Voltage	Auto detect 12VDC, 24VDC, 32VDC
Current Draw	Approx. 6.4A at 32VDC Approx. 8.8A at 24VDC Approx. 17.5 at 12VDC
Total Power Consumption	210W

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## Mechanical Qualifications

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Water Resistance	IP68 <small>(submerged to 4.5 ft water for 30min)</small>
Moisture Resistance	65°C / 95% RH Mil-Std-883 TM 1004.7
Salt Spray / Corrosion Resistance	240 hrs @ 35°C ASTM B 117-09 /ASTM D1654-08
Temperature Range	-40°C to 45°C Mil-Std-883 TM1010.8
Mechanical Shock	30G, 11ms Half Sine, 3-axes (+ve/-ve) Mil-Std-202 TM213B
Vibration Resistance	100,000 cycles, 3-axes ANSI C136.31

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## Warranty Terms

We stand behind our products. This product is covered by DuraBrite's 10 Year Limited Warranty against material and manufacturing defects. However, it does not cover application and conditions that are outside of the product design parameters, abuse, and wear-and-tear. Further details can be found on our website at: <https://durabritelights.com/pages/warranty>

## Special Note on Bracket Installation & Corrosion Prevention

The bracket that comes with the Mini Pro is laser cut with Marine Grade 316 Stainless Steel. Even though it has superior corrosion resistance, it does not mean it is corrosion proof. It can still rust if there is a buildup of salt on its surface over a prolonged period of time. It is highly recommended to coat it with DuraBrite's **Ceramax Ultra Coat** (available to purchase on our website) to completely seal it off from sea water and atmospheric air.

After coating and proper curing, care should be taken to prevent scratching at the mounting locations (e.g. by means of Nylon washers) which might locally break through the ceramic coating barrier, allowing the elements to interact with the metal.

Also, you will notice a set of Nylon washers that are installed in between the light and the bracket (one on each side). Make sure you keep them in place to minimize interaction and/or scratching between the two metals as you tighten and adjust the angle. The light body is made of cast aluminum and coated with a hard anodize, which by design, offers excellent protection. But if the bare metals come in contact due to scratching, galvanic corrosion will take place.

## Wiring Instruction:

### If you have a DC Power Source

1. This is a DC light, meaning you should only power it directly using a DC source. The light will auto detect the DC voltage.
2. Connect:
  - a. Positive (our white wire) to Positive
  - b. Negative (our black wire) to Negative
3. All wire connections including the cable jacket **MUST BE** protected from water intrusion. Otherwise, damages due to water ingress because of unprotected wire connections and cable jacket will not be covered by our warranty.

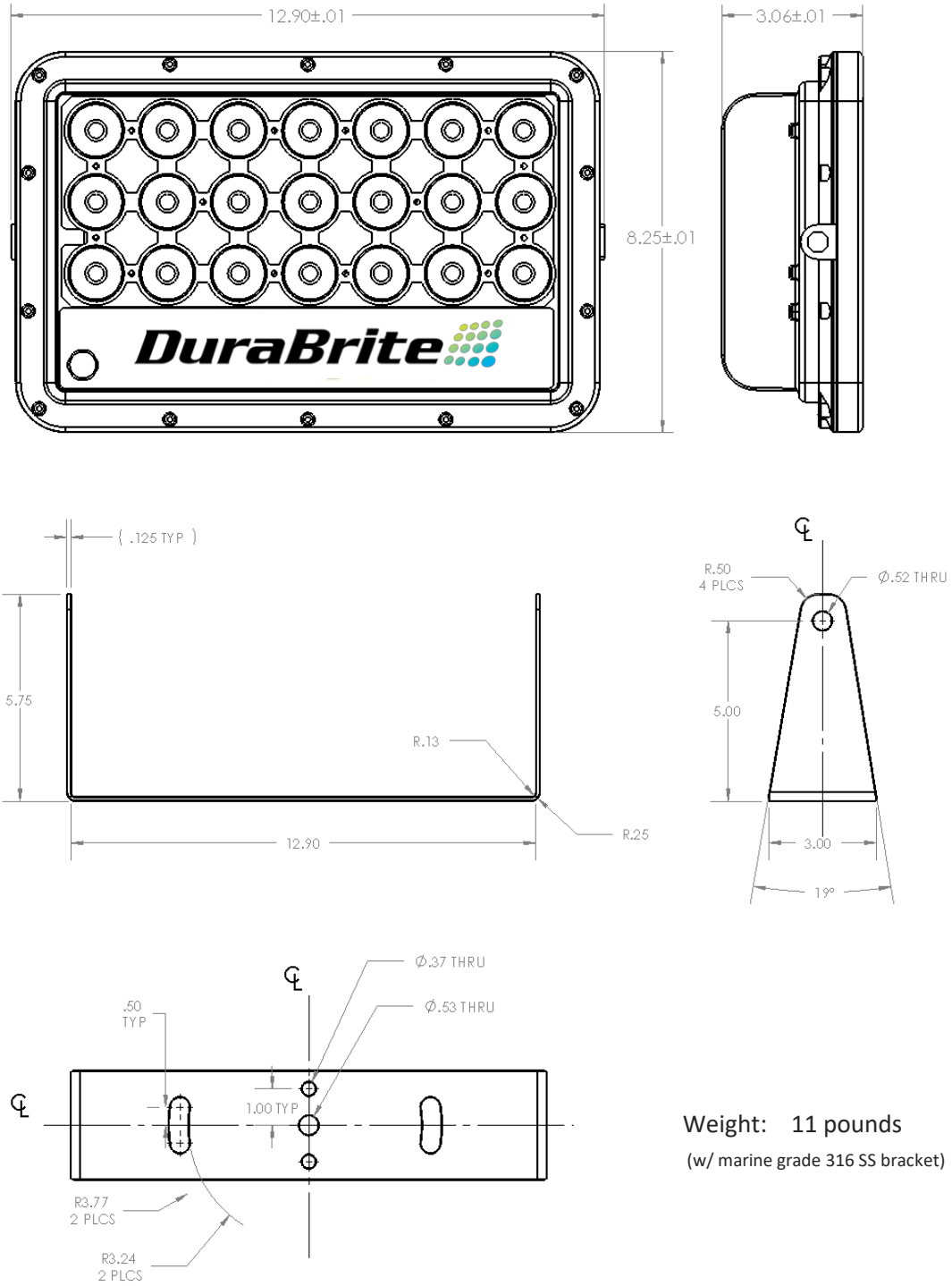
### *A Note on Cable Length:*

- If you operate at 24V, the current draw will be approximately 9A. The 6ft cable that comes out of the light (i.e. the pigtail) is AWG14 and if you also plan to use a AWG14, your total cable run **SHALL NOT** exceed 30ft.
- If you plan to do a longer cable run, we recommend you to first run the pigtail to a waterproof junction box close to the light, and from there, run a AWG10 to your DC power source.

### If you have an AC Power Source

1. STOP NOW !
2. Go to our website and buy the 280W STANDARD AC Adapter before you start the installation.
3. Use one STANDARD AC Adapter for EACH Mini Pro light. We do not recommend using a higher power AC Adaptor (e.g. the Pro AC Adapter) to power more than one Mini Pro light due to possible unequal current sharing, which may lead to occasional flickering or startup issue.
4. Once the AC adapter arrives, connect:
  - a. Positive (our white wire) to Positive (Red wire on the Output side of the adapter)
  - b. Negative (our black wire) to Negative (Black wire on the Output side of the adapter)
5. Make connection on the Input side of the adapter according to the National Electrical Code or equivalent in your country. The adaptor can be powered by either 110VAC and 220VAC.

## Mechanical Dimensions & Weight:



Weight: 11 pounds  
(w/ marine grade 316 SS bracket)

## MOUNTING BRACKET HOLE TEMPLATE (TO SCALE)

Note: Tighten bolts to 45 foot pounds after installation. Use spring washers to resist vibration.  
Keep the Nylon washer in place between bracket and light to better resist bracket galvanic corrosion.

