

Specified Item #	
Project	
Location	



Vertical orientation in a single-gang box.
(Switch box not included).




Horizontal orientation in a single-gang box.
(Switch box not included).



SPECIFICATIONS

MATTONE™ MINI Light Engine Specifications

Input Voltage	100-277VAC, 50/60Hz
Operating Voltage	24VDC
LED Chip Beam Angle	110°
Power Consumption	1.5W / .0125A (120V), .005A (277V)
Color Temp (Kelvin)	3200K
Lumens¹	60 (max). Varies per faceplate model.
Efficacy (lm/W)	40
CRI	70+
Total LED Chips	12x LEDs per light engine
Mounting	Mounts in standard 1-gang switch box.
Dimmable	No
Ambient Temperature²	-4° ~ 122°F (-20° ~ 50°C)
Operating Temperature³	-4° ~ 176°F (-20° ~ 80°C)
Environment⁴	Outdoor / wet location / IP65

	Photo of light engine only.
Connections	7 in. 18 AWG Hot (L) and Neutral (N) connections. Attach Ground (GND) to single gang switch box chassis.
Knockouts	Varies per switch box (sold separately).
Dimensions	4.5 x 2.75 x 1.5 in. (W x H x D) (does not include switch box housing)
Warranty	5 years
Certifications	cULus Listed (USA & Canada) Surface Mount Luminaire, UL # E336778.

Note¹ LED chips have a luminous flux range with a tolerance of +/- 5%. In other words, lumen output may vary +/- 5%.

Note² Do not install product in an environment outside the listed ambient temperature. Ensure adequate airflow and heatsinking is considered when mounting/installing.

Note³ Operating temperature is measured according to the minimum and maximum ambient temperature environment. Exceeding the maximum operating temperature may damage LED chips by reducing the total lamp life, lumen output, and/or adversely impact color consistency.


Note⁴ Only IP65 rated for outdoor applications when installed with a single gang wet location switch box (not included) and gasket (included with MATTONE MINI Step Light Engine purchase).

SS042115-1.4

MATTONE™ MINI COMPONENTS


MATTONE™ MINI Light Engine

Included items: Switch box gasket included.

Model	Color	Item #	Lumens*	
MATTONE MINI Step Light Engine 4.5 x 2.75 x 1.5 in. (W x H x D)	White	DI-MATM-LT-ENG	60 (max)	 <small>Shown in white finish.</small>

This product is compatible with both MATTONE MINI and MATTONE MINI ARCHITECTURAL trims and faceplates.

MATTONE™ MINI Trim Options



Trim Model	Color	Item #	Lumens*	
MATTONE MINI Mounting Trim 4.75 x 3.0 x 0.36 in. (W x H x D)	Dark Bronze	DI-MATM-TR-DB	N/A	 <small>Trim plate shown in powder white finish.</small>
	Powder White	DI-MATM-TR-WH		
	Brushed Nickel	DI-MATM-TR-BN		

MATTONE™ MINI Faceplate Options

Included items: Faceplate mounting screws and screw caps included with each faceplate.

Faceplate Model	Color	Item #	Lumens*	
MATTONE MINI Horizontal Louvered Mounting Faceplate 4.75 x 3.0 x 0.36 in. (W x H x D)	Dark Bronze	DI-MATM-HLPL-DB	50 (max)	 <small>Shown with trim plate in powder white finish. (trim plate sold separately)</small>
	Powder White	DI-MATM-HLPL-WH		
	Brushed Nickel	DI-MATM-HLPL-BN		
MATTONE MINI Vertical Louvered Mounting Faceplate 4.75 x 3.0 x 0.36 in. (W x H x D)	Dark Bronze	DI-MATM-VLPL-DB	60 (max)	 <small>Shown with trim plate in powder white finish. (trim plate sold separately)</small>
	Powder White	DI-MATM-VLPL-WH		
	Brushed Nickel	DI-MATM-VLPL-BN		
MATTONE MINI Horizontal Shroud Mounting Faceplate 4.75 x 3.0 x 1.26 in. (W x H x D)	Dark Bronze	DI-MATM-HSPL-DB	50 (max)	 <small>Shown with trim plate in brushed nickel finish. (trim plate sold separately)</small>
	Powder White	DI-MATM-HSPL-WH		
	Brushed Nickel	DI-MATM-HSPL-BN		


MATTONE™ MINI COMPONENTS CONT'D

MATTONE MINI Vertical Shroud Mounting Faceplate 4.75 x 3.0 x 0.9 in. (W x H x D)	Dark Bronze	DI-MATM-VSPL-DB	50 (max)	 Shown with trim plate in brushed nickel finish. (trim plate sold separately)
	Powder White	DI-MATM-VSPL-WH		
	Brushed Nickel	DI-MATM-VSPL-BN		
MATTONE MINI Lensed Mounting Faceplate 4.75 x 3.0 x 0.36 in. (W x H x D)	Dark Bronze	DI-MATM-LNPL-DB	60 (max)	 Shown with trim plate in dark bronze finish. (trim plate sold separately)
	Powder White	DI-MATM-LNPL-WH		
	Brushed Nickel	DI-MATM-LNPL-BN		

* Lumen output varies per faceplate model.



MATTONE™ MINI ARCHITECTURAL COMPONENTS

MATTONE™ MINI ARCHITECTURAL Trim Options

Trim Model	Color	Item #	Lumens*	
MATTONE MINI ARCHITECTURAL Mounting Trim 4.69 x 2.93 x 0.36 in. (W x H x D)	Dark Bronze	DI-MATMA-TR-DB	N/A	 Trim plate shown in powder white finish.
	Powder White	DI-MATMA-TR-WH		
	Brushed Nickel	DI-MATMA-TR-BN		

MATTONE™ MINI ARCHITECTURAL Faceplate Options


Included items: Faceplate mounting screws and screw caps included with each faceplate.

Faceplate Model	Color	Item #	Lumens*	
MATTONE MINI ARCHITECTURAL Horizontal Louvered Mounting Faceplate 3.94 x 2.25 x 0.24in. (W x H x D)	Dark Bronze	DI-MATMA-HLPL-DB	50 (max)	 Shown with trim plate in powder white finish. (trim plate sold separately)
	Powder White	DI-MATMA-HLPL-WH		
	Brushed Nickel	DI-MATMA-HLPL-BN		
MATTONE MINI ARCHITECTURAL Vertical Louvered Mounting Faceplate 3.94 x 2.25 x 0.24 in. (W x H x D)	Dark Bronze	DI-MATMA-VLPL-DB	60 (max)	 Shown with trim plate in dark bronze finish. (trim plate sold separately)
	Powder White	DI-MATMA-VLPL-WH		
	Brushed Nickel	DI-MATMA-VLPL-BN		

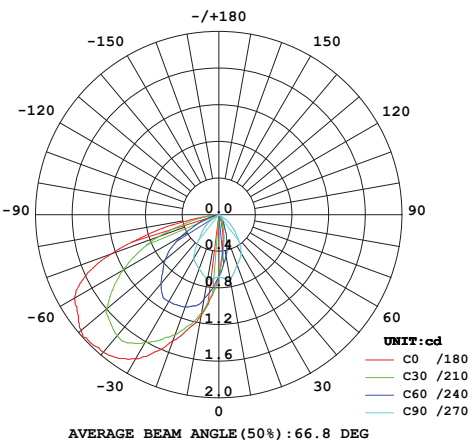
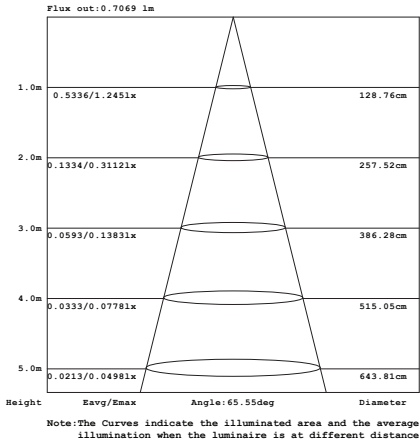
MATTONE™ MINI ARCHITECTURAL COMPONENTS CONT'D

MATTONE™ MINI ARCHITECTURAL Faceplate Options

Included items: Faceplate mounting screws and screw caps included with each faceplate.

Faceplate Model	Color	Item #	Lumens*	
MATTONE MINI ARCHITECTURAL Horizontal Louvered Wave Mounting Faceplate 3.94 x 2.25 x 0.24in. (W x H x D)	Dark Bronze	DI-MATMA-HLWPL-DB	50 (max)	 Shown with trim plate in brushed nickel finish. (trim plate sold separately)
	Powder White	DI-MATMA-HLWPL-WH		
	Brushed Nickel	DI-MATMA-HLWPL-BN		
MATTONE MINI ARCHITECTURAL Vertical Louvered Wave Mounting Faceplate 3.94 x 2.25 x 0.24 in. (W x H x D)	Dark Bronze	DI-MATMA-VLWPL-DB	60 (max)	 Shown with trim plate in brushed nickel finish. (trim plate sold separately)
	Powder White	DI-MATMA-VLWPL-WH		
	Brushed Nickel	DI-MATMA-VLWPL-BN		

PHOTOMETRICS

Faceplate Model	Polar Candela Distribution	Illuminance at Distance
MATTONE MINI Vertical Shroud Mounting Faceplate	 <p style="text-align: center;">AVERAGE BEAM ANGLE (50%) : 66.8 DEG</p>	 <p style="text-align: center;">Flux out: 0.7069 lm</p> <p style="text-align: center;">Angle: 65.55deg</p> <p style="text-align: center;">Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.</p>

PHOTOMETRICS CONT'D

Faceplate Model	Polar Candela Distribution	Illuminance at Distance																								
<p>MATTONE MINI Lensed Mounting Faceplate</p>	<p style="text-align: center;">-/+180</p> <p style="text-align: center;">AVERAGE BEAM ANGLE (50%) : 108.9 DEG</p> <p style="text-align: right;">UNIT: cd — C0 /180 — C30 /210 — C60 /240 — C90 /270</p>	<p>Flux out: 9.046 lm</p> <table border="1"> <thead> <tr> <th>Height</th> <th>Eavg/Emax</th> <th>Angle: 107.80deg</th> <th>Diameter</th> </tr> </thead> <tbody> <tr> <td>1.0m</td> <td>1.520/4.735lx</td> <td></td> <td>274.27cm</td> </tr> <tr> <td>2.0m</td> <td>0.3800/1.184lx</td> <td></td> <td>548.54cm</td> </tr> <tr> <td>3.0m</td> <td>0.1689/0.5261lx</td> <td></td> <td>822.81cm</td> </tr> <tr> <td>4.0m</td> <td>0.0950/0.2959lx</td> <td></td> <td>1097.08cm</td> </tr> <tr> <td>5.0m</td> <td>0.0608/0.1894lx</td> <td></td> <td>1371.34cm</td> </tr> </tbody> </table> <p>Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.</p>	Height	Eavg/Emax	Angle: 107.80deg	Diameter	1.0m	1.520/4.735lx		274.27cm	2.0m	0.3800/1.184lx		548.54cm	3.0m	0.1689/0.5261lx		822.81cm	4.0m	0.0950/0.2959lx		1097.08cm	5.0m	0.0608/0.1894lx		1371.34cm
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<p>MATTONE MINI Horizontal Louvered Mounting Faceplate</p>	<p style="text-align: center;">-/+180</p> <p style="text-align: center;">AVERAGE BEAM ANGLE (50%) : 73.8 DEG</p> <p style="text-align: right;">UNIT: cd — C0 /180 — C30 /210 — C60 /240 — C90 /270</p>	<p>Flux out: 0.8243 lm</p> <table border="1"> <thead> <tr> <th>Height</th> <th>Eavg/Emax</th> <th>Angle: 52.40deg</th> <th>Diameter</th> </tr> </thead> <tbody> <tr> <td>1.0m</td> <td>1.055/1.945lx</td> <td></td> <td>98.41cm</td> </tr> <tr> <td>2.0m</td> <td>0.2639/0.4862lx</td> <td></td> <td>196.82cm</td> </tr> <tr> <td>3.0m</td> <td>0.1173/0.2161lx</td> <td></td> <td>295.23cm</td> </tr> <tr> <td>4.0m</td> <td>0.0660/0.1215lx</td> <td></td> <td>393.65cm</td> </tr> <tr> <td>5.0m</td> <td>0.0422/0.0778lx</td> <td></td> <td>492.06cm</td> </tr> </tbody> </table> <p>Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.</p>	Height	Eavg/Emax	Angle: 52.40deg	Diameter	1.0m	1.055/1.945lx		98.41cm	2.0m	0.2639/0.4862lx		196.82cm	3.0m	0.1173/0.2161lx		295.23cm	4.0m	0.0660/0.1215lx		393.65cm	5.0m	0.0422/0.0778lx		492.06cm
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<p>MATTONE MINI Vertical Louvered Mounting Faceplate</p>	<p style="text-align: center;">-/+180</p> <p style="text-align: center;">AVERAGE BEAM ANGLE (50%) : 157.1 DEG</p> <p style="text-align: right;">UNIT: cd — C0 /180 — C30 /210 — C60 /240 — C90 /270</p>	<p>Flux out: 12.19 lm</p> <table border="1"> <thead> <tr> <th>Height</th> <th>Eavg/Emax</th> <th>Angle: 136.71deg</th> <th>Diameter</th> </tr> </thead> <tbody> <tr> <td>1.0m</td> <td>0.6022/4.207lx</td> <td></td> <td>503.98cm</td> </tr> <tr> <td>2.0m</td> <td>0.1506/1.052lx</td> <td></td> <td>1007.96cm</td> </tr> <tr> <td>3.0m</td> <td>0.0669/0.4675lx</td> <td></td> <td>1511.94cm</td> </tr> <tr> <td>4.0m</td> <td>0.0376/0.2630lx</td> <td></td> <td>2015.92cm</td> </tr> <tr> <td>5.0m</td> <td>0.0241/0.1683lx</td> <td></td> <td>2519.90cm</td> </tr> </tbody> </table> <p>Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.</p>	Height	Eavg/Emax	Angle: 136.71deg	Diameter	1.0m	0.6022/4.207lx		503.98cm	2.0m	0.1506/1.052lx		1007.96cm	3.0m	0.0669/0.4675lx		1511.94cm	4.0m	0.0376/0.2630lx		2015.92cm	5.0m	0.0241/0.1683lx		2519.90cm
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Faceplate Model	Polar Candela Distribution	Illuminance at Distance																								
<p>MATSTONE MINI Horizontal Shroud Mounting Faceplate</p>	<p style="text-align: center;">AVERAGE BEAM ANGLE (50%) : 78.4 DEG</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Height</th> <th>Eavg/Emax</th> <th>Angle: 62.84deg</th> <th>Diameter</th> </tr> </thead> <tbody> <tr> <td>1.0m</td> <td>2.535/4.582lx</td> <td></td> <td>122.18cm</td> </tr> <tr> <td>2.0m</td> <td>0.6337/1.145lx</td> <td></td> <td>244.36cm</td> </tr> <tr> <td>3.0m</td> <td>0.2817/0.5091lx</td> <td></td> <td>366.54cm</td> </tr> <tr> <td>4.0m</td> <td>0.1584/0.2863lx</td> <td></td> <td>488.71cm</td> </tr> <tr> <td>5.0m</td> <td>0.1014/0.1833lx</td> <td></td> <td>610.89cm</td> </tr> </tbody> </table> <p style="font-size: small;">Flux out: 2.990 lm Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.</p>	Height	Eavg/Emax	Angle: 62.84deg	Diameter	1.0m	2.535/4.582lx		122.18cm	2.0m	0.6337/1.145lx		244.36cm	3.0m	0.2817/0.5091lx		366.54cm	4.0m	0.1584/0.2863lx		488.71cm	5.0m	0.1014/0.1833lx		610.89cm
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ADDITIONAL RESOURCES

Visit the online product page at www.DiodeLED.com for additional resources including:

- **MATSTONE™ MINI DIRECT-WIRE LED STEP LIGHT FIXTURE Installation Guide**
For system diagrams and full installation/operating instructions.

SAFETY / WARNINGS / DISCLOSURES

- Install in accordance with the National Electric Code and local regulations.
- This product is intended to be installed and serviced by a qualified, licensed electrician.
- Do not install product in an environment outside the listed ambient temperature. Ensure adequate airflow and heatsinking is considered when mounting/installing.
- Operating temperature is measured according to the minimum and maximum ambient temperature environment. Exceeding the maximum operating temperature may damage LED chips by reducing the total lamp life, lumen output, and/or adversely impact color consistency.
- Ensure applicable wire is installed between fixture, and any controls in-between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overheat wires, and cause fire.
- This fixture is to be installed in a standard single-gang switch box.
- Only IP65 rated for outdoor applications when installed with a single gang wet location switch box and gasket (box sold separately).
- This fixture must be grounded to the light engine housing chassis.
- Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.
- Lighting technology has some amount of gradual light degradation (output and/or color) over the lifespan of the products. Diode LED products are designed to minimize degradation, but some light degradation and color shift is a normal part of the life span of any LED lighting system.
- We reserve the right to modify and improve the design of our fixtures without prior notice. We cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

WARRANTY

Limited Warranty

This LED fixture has a five (5) year limited warranty from the date of shipment. This warranty does not include the additional accessories referenced in this specification sheet. Complete warranty details for fixtures and additional accessories are available at www.DiodeLED.com under the 'Tools & Resources' tab. For warranty related questions, please contact customer service.

Consumer's Acknowledgment

Diode LED stands behind its products when they are used properly and according to our specifications. By purchasing our products, the purchaser agrees and acknowledges that lighting design, configuration and installation is a complex process, wherein seemingly minor factors or changes in layout and in-field adjustments can have a significant impact on an entire system. Choosing the right components is essential. Diode LED is able to work with the original purchaser to make an appropriate product selection to the extent of the limited information that the customer can provide, but it is virtually impossible for Diode LED to design a system that foresees every unknown factor. For this reason, this Warranty does not cover problems caused by improper design, configuration or installation issues. Any statement from a Diode LED employee or agent regarding a customer's bill of goods and/or purchase order is NOT an acknowledgement that the products purchased are designed and configured correctly. The purchaser agrees and acknowledges that it is the customer's responsibility to adhere strictly to all information contained in the Product Specification Sheets.

There is often more than one way to design, configure and layout an LED lighting application properly to achieve the same lighting effect. Diode LED strongly recommends that licensed professionals be used in the design and installation of lighting systems that include Diode LED products. The specifications include important information that a designer and installer should carefully review and strictly follow. Qualified designers and certified and/or licensed installers, with access to the final installation environment, customer goals, and Diode LED product specifications can make the requisite decisions appropriate for a successful finished lighting application.