

MACH LED PLUS linear LED machine lights are available in various lengths


## MACH LED PLUS. forty

40 MM LINEAR LED MACHINE LIGHT

## FEATURES:

- Four lengths: 7.5" (190 mm), 14.4" (365 mm), 21.3" ( 540 mm ), 28.2" (715 mm)
- Beam angle options: $40^{\circ}$ or $90^{\circ}$
- Rugged anodized aluminum housing and 4 mm thick safety glass
- Various bracket options for simple installation
- Able to withstand extreme ambient heat up to $122^{\circ} \mathrm{F}\left(50^{\circ} \mathrm{C}\right)$
- 60,000 hours of maintenance-free operation
- Vibration resistant > 55 Hz (amplitude 0.35 mm );

Shock resistant > . 11 lb

- Protection rating IP67
- Easy connection via M12 connector w/ cable assembly (included)
- Designed for use with coolants and lubricants


## SPECIFICATIONS:

## Voltage

20-28 VDC
Lamping
LED
Color Temperature
5000 K
Color Rendering Index (CRI)
Beam Angles
Luminaire Material
Lens Material
Dimension
Max Temperature Rating
Connection
$122^{\circ} \mathrm{F}\left(50^{\circ} \mathrm{C}\right)$
M12 connector
w/ 16' cable assembly included
Protection Rating
IP67
Certification
ETL/cETL, CE
Mounting and accessories
See page 66

See chart for individual lengths (A) Measurements in millimeters

Waldmann has combined the positive attributes of MACH LED PLUS.seventy with the small form factor of the very popular MACH LED to develop MACH LED PLUS.forty $-1.6^{\prime \prime}$ in diameter with light output extending the full length of the fixture. It is available with a choice of beam angle, four different lengths, and 60,000 hours of maintenance-free operation. MACH LED PLUS.forty utilizes state-of-the-art technology to enable optimum lighting in the machining area: the latest LED technology, specially developed optics system and the most modern and robust housing concept in the industry.

(Above) Thru-wire MACH LED PLUS.forty


MACH LED PLUS.forty with $40^{\circ}$ angle of illumination


MACH LED PLUS.forty with $90^{\circ}$ angle of illumination

Illuminance taking MLAL 57 S with $40^{\circ}$ optics as an example



Illuminance taking MLAL 57 S with $90^{\circ}$ reflector as an example
ORDERING INFORMATION (No operating device included, which is only required for 120-240 VAC operation)

| Version | Wattage | Length ( A ) | Lumens | Model | Part \# |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 20-28 VDC Versions |  |  |  |  |  |
| $90^{\circ}$ beam angle | 5 W | $7.5^{\prime \prime}(190 \mathrm{~mm})$ | 480 | MLAL 12 S | 113161000-00662575 |
| $40^{\circ}$ beam angle | 5 W | $7.5{ }^{\prime \prime}(190 \mathrm{~mm})$ | 490 | MLAL 12 S | 113161000-00660033 |
| $90^{\circ}$ beam, thru-wire | 5 W | $7.5{ }^{\prime \prime}(190 \mathrm{~mm})$ | 480 | MLAL 12 SD | 113161000-00662600 |
| $90^{\circ}$ beam angle | 10.5 W | 14.4" (365 mm) | 1080 | MLAL 27 S | 113162000-00662685 |
| $40^{\circ}$ beam angle | 10.5 W | 14.4" (365 mm) | 1120 | MLAL 27 S | 113162000-00660681 |
| $90^{\circ}$ beam, thru-wire | 10.5 W | 14.4" (365 mm) | 1080 | MLAL 27 SD | 113162000-00662706 |
| $90^{\circ}$ beam angle | 16 W | 21.3" ( 540 mm ) | 1680 | MLAL 42 S | 113163000-00662717 |
| $40^{\circ}$ beam angle | 16 W | 21.3 " (540 mm) | 1720 | MLAL 42 S | 113163000-00660684 |
| $90^{\circ}$ beam, thru-wire | 16 W | 21.3 " (540 mm) | 1680 | MLAL 42 SD | 113163000-00662735 |
| $90^{\circ}$ beam angle | 21.5 W | 28.2" (715 mm) | 2280 | MLAL 57 S | 113164000-00662806 |
| $40^{\circ}$ beam angle | 21.5 W | 28.2" (715 mm) | 2330 | MLAL 57 S | 113164000-00660687 |
| $90^{\circ}$ beam, thru-wire | 21.5 W | 28.2" (715 mm) | 2280 | MLAL 57 SD | 113164000-00662833 |


| Accessories | Item | Type | Voltage | Part \# | US0009001 |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | M12 connector $w / 16^{\prime}$ cable assembly (included) straight | A-coded | 24 VDC | 24 VDC | US00009011 |

