

# PLD M 160 W-95/105 896 - LED machine light



2702478

<https://www.phoenixcontact.com/us/products/2702478>

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LED machine light, 24 V DC, emission angle (vertical/Horizontal): 95 °/105 °, length: 896 mm, degree of protection: IP67, can be swiveled, including mounting accessories

## Product description

This LED machine light is designed to provide illumination inside or on machinery. Due to the narrow design, it can be mounted even where space is at a premium. In the light holder supplied, the light can swivel and the lighting can therefore be optimally aligned. The satin-finished plastic cover prevents glare for the machine operator.

## Your advantages

- Narrow design enables mounting even in confined spaces
- Ready to connect by means of punched-on 3 m supply line
- Focused illumination, thanks to swivel action
- IP67 protection enables use even in wet environments
- ETL approval permits use on the North American market
- Particularly economical thanks to energy-efficient LED technology and an LED service life of at least 50000 h

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2702478             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | DR08                |
| Product key                          | DRL221              |
| Catalog page                         | Page 503 (C-6-2019) |
| GTIN                                 | 4055626213842       |
| Weight per piece (including packing) | 1,200 g             |
| Weight per piece (excluding packing) | 800 g               |
| Customs tariff number                | 94054239            |
| Country of origin                    | DE                  |

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## Technical data

### Notes

#### Note on application

|                     |                         |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

### Product properties

|                    |                                                                                  |
|--------------------|----------------------------------------------------------------------------------|
| Product type       | Machine light                                                                    |
| Application        | Machine                                                                          |
| Mounting position  | any                                                                              |
| Special properties | can be swiveled Swiveling range $\pm 35^\circ$<br>including mounting accessories |

#### Data management status

|                  |    |
|------------------|----|
| Article revision | 02 |
|------------------|----|

### Electrical properties

#### Supply: Module electronics

|                      |                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------|
| Connection method    | open cable end                                                                                        |
| Cable length         | approx. 3 m                                                                                           |
| Supply voltage       | 24 V DC                                                                                               |
| Supply voltage range | 22 V DC ... 26 V DC                                                                                   |
| Current consumption  | typ. 0.875 A (at 24 V DC)                                                                             |
| Power consumption    | approx. 21 W (at 24 V DC)                                                                             |
| Protective circuit   | Surge protection; Suppressor diode, 28 V DC<br>Reverse polarity protection; Polarity protection diode |

### Signaling

#### Light properties

|                         |                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------|
| Source of light type    | LED                                                                                        |
| Number of LEDs          | 36                                                                                         |
| Color temperature       | 6600 K $\pm 10\%$                                                                          |
| Color rendering index   | 75                                                                                         |
| Luminous flux           | approx. 900 lm (Net luminous flux)                                                         |
| Luminous efficacy       | approx. 43 lm/W                                                                            |
| Illumination            | max. 833 lx (50 cm distance)<br>min. 150 lx (Distance of 50 cm over 1 m <sup>2</sup> area) |
| Average illumination    | 449 lx (Distance of 50 cm over 1 m <sup>2</sup> area)                                      |
| Emission angle          | 95 ° (C0-C180)<br>105 ° (C90-C270)                                                         |
| Ordinance               | Delegated Regulation (EU) 2019/2015                                                        |
| Energy efficiency class | G (6 light sources)                                                                        |

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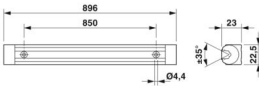


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|      |                                                                |
|------|----------------------------------------------------------------|
| Note | This product contains energy efficiency class G light sources. |
|------|----------------------------------------------------------------|

### Dimensions

|                     |                                                                                    |
|---------------------|------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 22.5 mm                                                                            |
| Height              | 23 mm                                                                              |
| Length              | 896 mm                                                                             |

### Material specifications

|              |                                                                  |
|--------------|------------------------------------------------------------------|
| Color        | aluminum color                                                   |
| Material ( ) | Anodized aluminum (Light housing)<br>Satin acrylic (Light cover) |

### Environmental and real-life conditions

|                                          |                       |
|------------------------------------------|-----------------------|
| Ambient conditions                       |                       |
| Ambient temperature (operation)          | 0 °C ... 40 °C        |
| Degree of protection                     | IP67                  |
| Air pressure (operation)                 | 69 kPa ... 102 kPa    |
| Air pressure (storage/transport)         | 69 kPa ... 102 kPa    |
| Ambient temperature (storage/transport)  | -10 °C ... 50 °C      |
| Permissible humidity (operation)         | 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 95 % (non-condensing) |

### Standards and regulations

|                  |                                       |
|------------------|---------------------------------------|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |
|------------------|---------------------------------------|

### Mounting

|                   |                |
|-------------------|----------------|
| Mounting type     | Screw mounting |
| Mounting position | any            |

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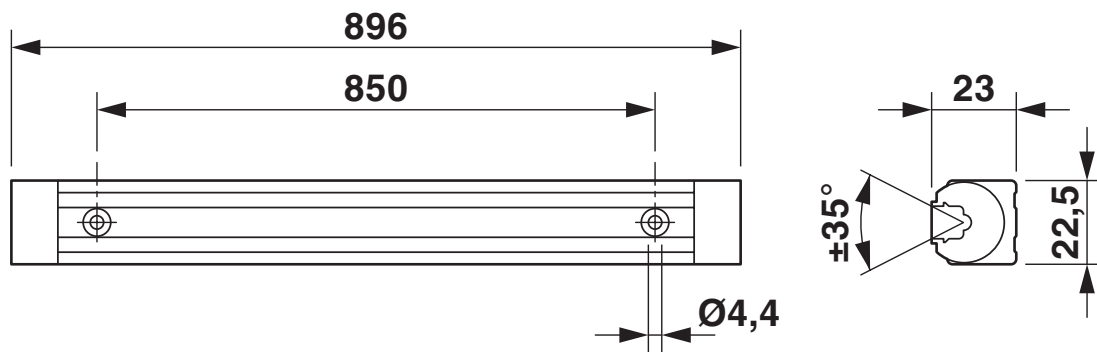
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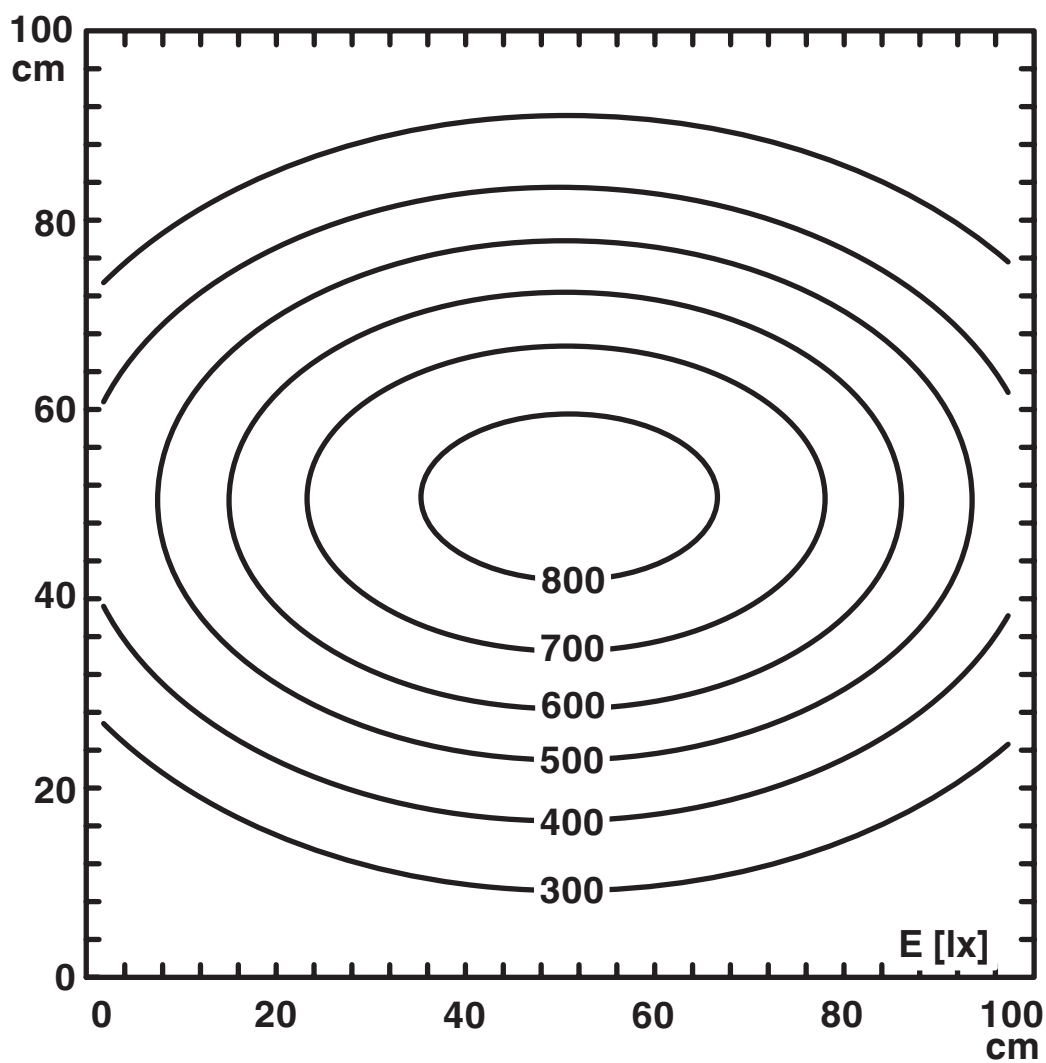


## Drawings

Dimensional drawing

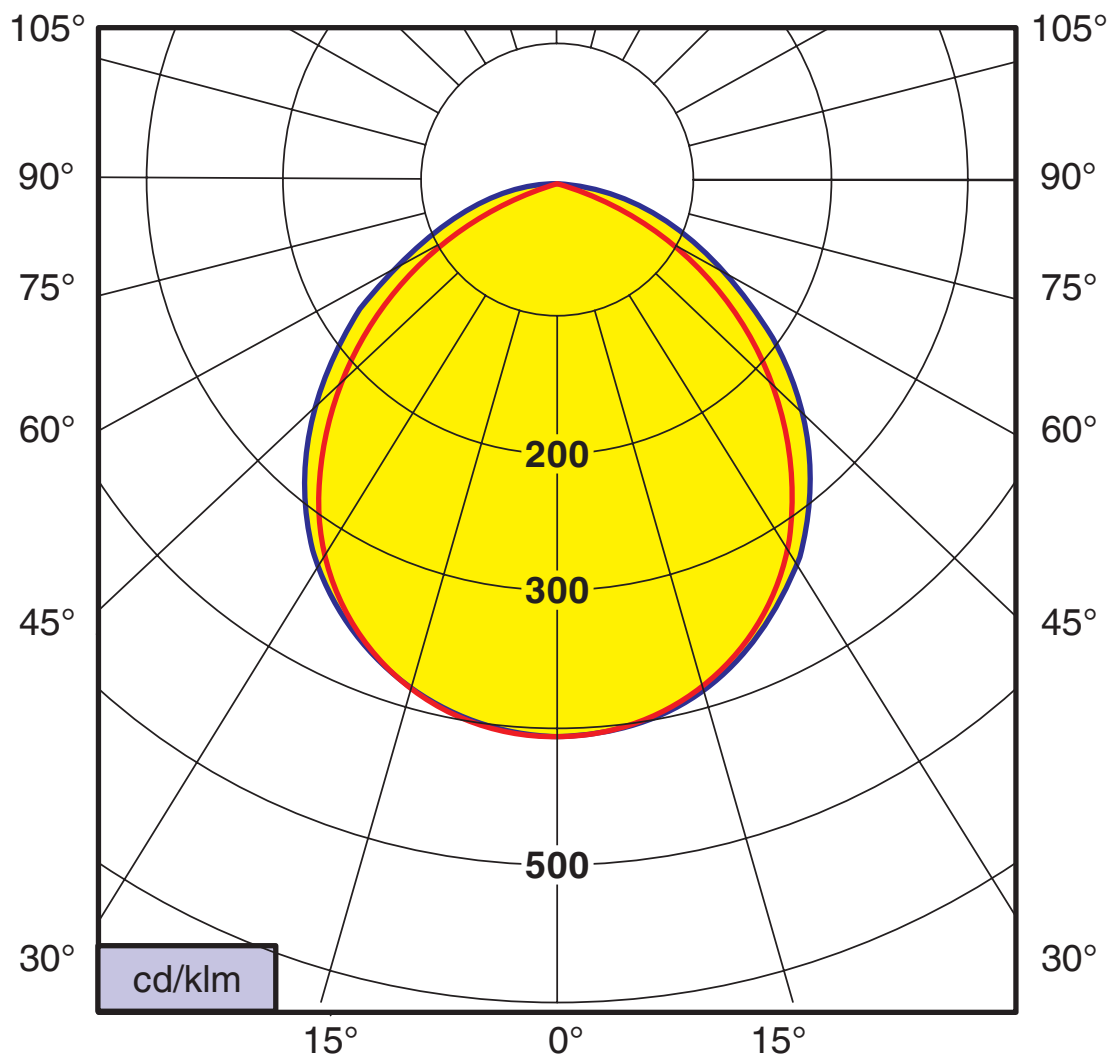


Diagram



Illuminance distribution  
(distance d = 0.5 m)

Diagram



Luminous intensity distribution (LID)  
(red line: C0 - C180, blue line: C90 - C270)

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2702478>



**ETLus**

Approval ID: LV-Lighting-Systems



**cETL**

Approval ID: Luminaires



**EAC**

Approval ID: TR\_TS\_D\_12879-22



**EAC-RoHS**

Approval ID: RU D-DE.HB35.B.00391

**cETLus**

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27110345 |
| ECLASS-12.0 | 27110345 |
| ECLASS-13.0 | 27110345 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000348 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 32151500 |
|-------------|----------|



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## Environmental product compliance

|                                         |                                                                                                                                                                                                                                   |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU RoHS                                 |                                                                                                                                                                                                                                   |
| Fulfills EU RoHS substance requirements | Yes                                                                                                                                                                                                                               |
| Exemption                               | 6(a)-I, 7(a), 7(c)-I                                                                                                                                                                                                              |
| China RoHS                              |                                                                                                                                                                                                                                   |
| Environment friendly use period (EFUP)  | EFUP-50                                                                                                                                                                                                                           |
|                                         | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |
| EU REACH SVHC                           |                                                                                                                                                                                                                                   |
| REACH candidate substance (CAS No.)     | Lead(CAS: 7439-92-1)                                                                                                                                                                                                              |

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