# Slender. Adaptable. Performance.

# MICROSQUARE

# DIRECT, WHITE LENS CRI >80 3000K, 1300 lm/4ft

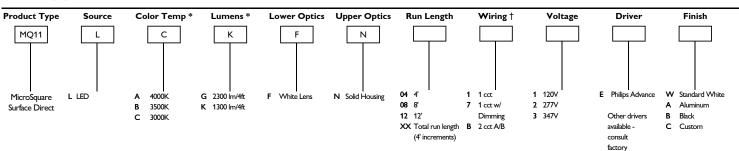
| Project:    |           |  |
|-------------|-----------|--|
| Spec Type:  |           |  |
| Catalog No: | MQ11LCKFN |  |
|             |           |  |

Qty

Line Notes:



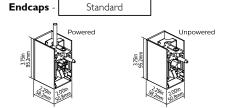
# **Ordering guide**



\* Nominal values within a range. Consult ies file for exact color temp, lumens and distribution † Not all wiring types are available with all configurations. Consult factory for complete list of available options

# Mounting Hardware

Consult separate mounting spec sheet for mount type options



Mount Type

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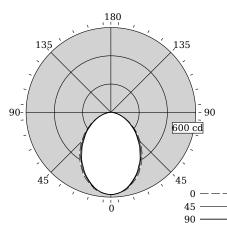
Integrated Controls Please indicate with check mark.

No Options Available

# MICROSQUARE SURFACE LED

# DIRECT, WHITE LENS

# Photometry



0% Up / 100% Down

| Total Output   | 1254 lm           |  |  |  |
|--|-------------------|--|--|--|
| Efficacy   | 88.3 lm/W         |  |  |  |
| ССТ  | 2977K             |  |  |  |
| CRI  | 81                |  |  |  |
| R9   | 3                 |  |  |  |
| Distribution   | 0% Up / 100% Down |  |  |  |
| Spacing Criteria (0/90/180°)                           | 1.11/1.07/NA      |  |  |  |
| Meets RP-1-04 recommendations for VDT-Intensive spaces |                   |  |  |  |

Values per 4ft unit

Fixture photometry has been conducted by an NVLAP accredited testing laboratory in accordance with IESNA LM-79-08

IES files for this and other photometric options can be downloaded online at www.lightingproducts.philips.com

# Candela Distribution

| Vertical | Horizontal Angle |      |     |      |     | Zonal  |
|----------|------------------|------|-----|------|-----|--------|
| Angle    | 0                | 22.5 | 45  | 67.5 | 90  | Lumens |
| 0        | 583              | 583  | 583 | 583  | 583 | 0      |
| 5        | 576              | 577  | 576 | 576  | 575 | 54     |
| 15       | 534              | 541  | 533 | 532  | 527 | 150    |
| 25       | 471              | 474  | 461 | 458  | 452 | 213    |
| 35       | 382              | 387  | 373 | 368  | 360 | 235    |
| 45       | 293              | 293  | 281 | 282  | 268 | 219    |
| 55       | 203              | 205  | 198 | 195  | 189 | 178    |
| 65       | 122              | 128  | 120 | 123  | 115 | 122    |
| 75       | 62               | 63   | 59  | 63   | 58  | 65     |
| 85       | 15               | 17   | 15  | 16   | 14  | 18     |
| 90       | 0                | 0    | 0   | 0    | 0   | 0      |
| 95       | 0                | 0    | 0   | 0    | 0   | 0      |
| 105      | 0                | 0    | 0   | 0    | 0   | 0      |
| 115      | 0                | 0    | 0   | 0    | 0   | 0      |
| 125      | 0                | 0    | 0   | 0    | 0   | 0      |
| 135      | 0                | 0    | 0   | 0    | 0   | 0      |
| 145      | 0                | 0    | 0   | 0    | 0   | 0      |
| 155      | 0                | 0    | 0   | 0    | 0   | 0      |
| 165      | 0                | 0    | 0   | 0    | 0   | 0      |
| 175      | 0                | 0    | 0   | 0    | 0   | 0      |
| 180      | 0                | 0    | 0   | 0    | 0   | 0      |

# Coefficients of Utilization (%)

| RCR | Ceiling: |     | 8   | 0   |     |     | 70  |     |     | 50  |     | 0   |
|-----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RCR | Wall:    | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 50  | 30  | 10  | 0   |
| 0   |          | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | 100 |
| 1   |          | 110 | 105 | 101 | 98  | 107 | 103 | 99  | 99  | 96  | 93  | 86  |
| 2   |          | 101 | 93  | 87  | 81  | 98  | 91  | 85  | 87  | 83  | 78  | 73  |
| 3   |          | 92  | 82  | 75  | 69  | 90  | 81  | 74  | 78  | 72  | 67  | 63  |
| 4   |          | 85  | 74  | 65  | 59  | 83  | 72  | 65  | 70  | 63  | 58  | 54  |
| 5   |          | 79  | 66  | 58  | 52  | 76  | 65  | 57  | 63  | 56  | 51  | 48  |
| 6   |          | 73  | 60  | 52  | 46  | 71  | 59  | 51  | 57  | 50  | 45  | 42  |
| 7   |          | 68  | 55  | 46  | 41  | 66  | 54  | 46  | 53  | 45  | 40  | 38  |
| 8   |          | 63  | 50  | 42  | 37  | 62  | 50  | 42  | 48  | 41  | 36  | 34  |
| 9   |          | 59  | 46  | 38  | 33  | 58  | 46  | 38  | 45  | 38  | 33  | 31  |
| 10  |          | 56  | 43  | 35  | 30  | 54  | 42  | 35  | 42  | 35  | 30  | 28  |

#### Avg. Luminance (cd/m2)

| Vertical | H    | orizontal Ang | gle  |
|----------|------|---------------|------|
| Angle    | 0    | 45            | 90   |
| 55       | 6629 | 6478          | 6156 |
| 65       | 5416 | 5335          | 5112 |
| 75       | 4457 | 4302          | 4177 |
| 85       | 3274 | 3182          | 3021 |

# **Electrical Specifications**

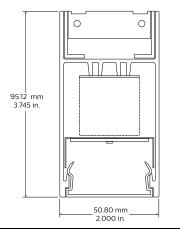
| Input Voltage  | 120V  | 277V  |  |  |  |
|--|-------|-------|--|--|--|
| Input Power  | 14.2W | 14.4W |  |  |  |
| Input Current  | 0.12A | 0.06A |  |  |  |
| Power Factor   | 0.992 | 0.921 |  |  |  |
| Total Harm. Distortion   | 9.7%  | 15%   |  |  |  |
| Tested values – contact technical support for rated values.<br>Off-state power zero unless certain controls are specified. |       |       |  |  |  |

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# MICROSQUARE SURFACE LED

# DIRECT, WHITE LENS

# **Options and Details**



# **Optics & Styles**



Standard style lens at end (A) (31 mm lens break at each end)

Standard style lens at joint (A) (62 mm lens break at each joint)

## Modules





Note: Refer to installation instructions for exact mou \* In-Run lens break = 52 mm & lens break at end = 31 mm

### Housing

High purity extruded aluminum housing. Contains some recycled material.

#### **Optical System**

In the lower hemisphere, white light from downward facing LED sources is directed towards the optical aperture using highly efficient Miro silver reflectors and diffused by a matte frost acrylic extruded lens. In the upper hemisphere, a smooth light distribution is achieved by a combination of the integral LED package optics and an acrylic diffuser / dust cover.

#### **Standard Driver**

Dimming 0-10V, 10-100%, output is Class 2 rated. Important: Fixture wired for non-dim operation unless dimming is specified.

#### Lumen Maintenance

Lumen maintenance of the LEDs has been tested by the manufacturer in accordance with IESNA LM-80-08. At an ambient temperature of 25°C, the LED lumen maintenance expectation is: L<sub>80</sub> (12k) 60,000h according to IES TM-21-11 Addendum A Reported methodology

L<sub>80</sub> (6k) 72,000h according to IES TM-21-11 **Projected** methodology

## Electrical

Factory pre-wired to section ends with quick-wire connectors.

#### Mounting

Fixed position mounts supplied standard at ends. Aircraft cable gripper provides infinite vertical adjustment capability. Aircraft cable, crimp and cable gripper independently tested to meet stringent safety requirements.

## Joints

Self-aligning joining system with hands-free pre-joining wire access.

#### Endcaps

Each row is completed by a die-cast aluminum end cap. An internal draw-tight connector minimizes the joint line.

#### **Approvals**

Complies to US and Canadian Safety Standards. UL or ETL listed and suitable for damp locations.

#### Finish

High quality powder coated, available in matte White, Aluminum or Black. Other factory and custom colors available on request.

#### Environment

Rated for dry or damp locations in operating ambient temperatures 0-40°C (32-104°F). Certain luminaire components may be adversely affected by contaminants. Damage caused by sulfur, chlorine, petroleum based solutions or other contaminants in the area of operation are not covered under warranty. Not suitable for natatorium environments.

Due to continuing product improvements, Philips Ledalite reserves the right to change the specifications without notice.



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