

## LUXPOINT™ MACRO

### Data Sheet



LUXPOINT™ MACRO is 8-inch recessed LED down light to replace the traditional CFL counterpart. With OSRAM's strong technical know-how in making high-efficient and extremely reliable lighting product with great visual comfort, it is an ideal replacement for 2x18W, 2x26W and 2x32W CFL down lights.

#### BENEFITS

- Save 40% energy compared to general CFL
- Product lifetime 50,000hrs
- Uniform & low glare optical
- High Efficacy version available

#### APPLICATION

- General indoor illumination
- High ceiling areas such as shopping mall, airport, commercial building lobby
- Replace 2x18W CFL: LXPT MACRO 12 ECO
- Replace 2x26W / 2x32W CFL: LXPT MACRO 20ECO & 20HE

## SPECIFICATION: LUXPOINT™ MACRO 20 HE

| Item                               | Parameter                            | LXPT MC20 HE WT 830 L90                                                             | LXPT MC20 HE WT 840 L90 | LXPT MC20 HE WT 765 L90 |
|------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------|-------------------------|-------------------------|
| <b>Light Output</b> <sup>(1)</sup> | CCT (K)                              | 3000K                                                                               | 4000K                   | 6500K                   |
|                                    | Lumens (lm)                          | 2300                                                                                | 2500                    | 2900                    |
|                                    | Candela (cd)                         | 1150                                                                                | 1250                    | 1400                    |
|                                    | Beam Angle                           | 90°                                                                                 | 90°                     | 90°                     |
|                                    | Efficacy (lm/W)                      | 70                                                                                  | 76                      | 88                      |
|                                    | CRI                                  | 80                                                                                  | 80                      | 70                      |
|                                    | Lifetime                             | 50,000 hours                                                                        | 50,000 hours            | 50,000 hours            |
| <b>Electrical</b> <sup>(2)</sup>   | Input (V)                            | 220 ~ 240 Vac                                                                       |                         |                         |
|                                    | Frequency (Hz)                       | 50 / 60                                                                             |                         |                         |
|                                    | Power Consumption (W)                | 33                                                                                  |                         |                         |
|                                    | Power Factor                         | 0.95                                                                                |                         |                         |
| <b>Mechanical</b>                  | Dimension (mm)                       | Ø230 x 140 (H)                                                                      |                         |                         |
|                                    | Mounting Holes                       | Ø200mm                                                                              |                         |                         |
|                                    | Allowable mounting surface thickness | 2~20mm                                                                              |                         |                         |
|                                    | Optics                               | Reflector (PE) with Diffuser Cover (PC)                                             |                         |                         |
|                                    | Net Weight (g)                       | 1400 g                                                                              |                         |                         |
| <b>Temperature</b> <sup>(3)</sup>  | Ambient (°C)                         | -20°C to 40°C                                                                       |                         |                         |
|                                    | Storage (°C)                         | -30°C to 80°C                                                                       |                         |                         |
| <b>Standard Compliance</b>         | IP Rating                            | IP20 / IP44(downward)                                                               |                         |                         |
|                                    | Safety Class                         | Class II                                                                            |                         |                         |
|                                    | Approval Standard                    | IEC62031, IEC60598-1, IEC60598-2-2, EN61000-3-2, EN55015, EN61547, IEC62471, JDSD22 |                         |                         |
|                                    | Flammability                         | F, MM                                                                               |                         |                         |
|                                    | Environment                          | RoHS                                                                                |                         |                         |
| <b>Packaging</b>                   | Standard white box                   | Installation Manual included                                                        |                         |                         |

(1)Due to the special conditions of manufacturing processes of LED, the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of individual product which could differ from the typical data.

(2)Exceeding maximum ratings for operation voltage will cause hazardous overload and will likely destroy the LED luminaire.

(3)Exceeding maximum ratings for operation and storage temperature will reduce expected life time or destroy the LED luminaire.

## SPECIFICATION: LUXPOINT™ MACRO 20 ECO

| Item                               | Parameter                            | LXPT MC20 ECO WT 830 L90                                                            | LXPT MC20 ECO WT 840 L90 | LXPT MC20 ECO WT 765 L90 |
|------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------|--------------------------|
| <b>Light Output</b> <sup>(1)</sup> | CCT (K)                              | 3000K                                                                               | 4000K                    | 6500K                    |
|                                    | Lumens (lm)                          | 2250                                                                                | 2350                     | 2800                     |
|                                    | Candela (cd)                         | 1100                                                                                | 1150                     | 1400                     |
|                                    | Beam Angle                           | 90°                                                                                 | 90°                      | 90°                      |
|                                    | Efficacy (lm/W)                      | 64                                                                                  | 66                       | 80                       |
|                                    | CRI                                  | 80                                                                                  | 80                       | 70                       |
|                                    | Lifetime                             | 50,000 hours                                                                        | 50,000 hours             | 50,000 hours             |
| <b>Electrical</b> <sup>(2)</sup>   | Input (V)                            | 220 ~ 240 Vac                                                                       |                          |                          |
|                                    | Frequency (Hz)                       | 50 / 60                                                                             |                          |                          |
|                                    | Power Consumption (W)                | 35                                                                                  |                          |                          |
|                                    | Power Factor                         | 0.95                                                                                |                          |                          |
| <b>Mechanical</b>                  | Dimension (mm)                       | Ø230 x 140 (H)                                                                      |                          |                          |
|                                    | Mounting Holes                       | Ø200mm                                                                              |                          |                          |
|                                    | Allowable mounting surface thickness | 2~20mm                                                                              |                          |                          |
|                                    | Optics                               | Reflector (PE) with Diffuser Cover (PC)                                             |                          |                          |
|                                    | Net Weight (g)                       | 1400 g                                                                              |                          |                          |
| <b>Temperature</b> <sup>(3)</sup>  | Ambient (°C)                         | -20°C to 40°C                                                                       |                          |                          |
|                                    | Storage (°C)                         | -30°C to 80°C                                                                       |                          |                          |
| <b>Standard Compliance</b>         | IP Rating                            | IP20 / IP44(downward)                                                               |                          |                          |
|                                    | Safety Class                         | Class II                                                                            |                          |                          |
|                                    | Approval Standard                    | IEC62031, IEC60598-1, IEC60598-2-2, EN61000-3-2, EN55015, EN61547, IEC62471, JDSD22 |                          |                          |
|                                    | Flammability                         | F, MM                                                                               |                          |                          |
|                                    | Environment                          | RoHS                                                                                |                          |                          |
| <b>Packaging</b>                   | Standard white box                   | Installation Manual included                                                        |                          |                          |

(1)Due to the special conditions of manufacturing processes of LED, the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of individual product which could differ from the typical data.

(2)Exceeding maximum ratings for operation voltage will cause hazardous overload and will likely destroy the LED luminaire.

(3)Exceeding maximum ratings for operation and storage temperature will reduce expected life time or destroy the LED luminaire.

## SPECIFICATION: LUXPOINT™ MACRO 12 ECO

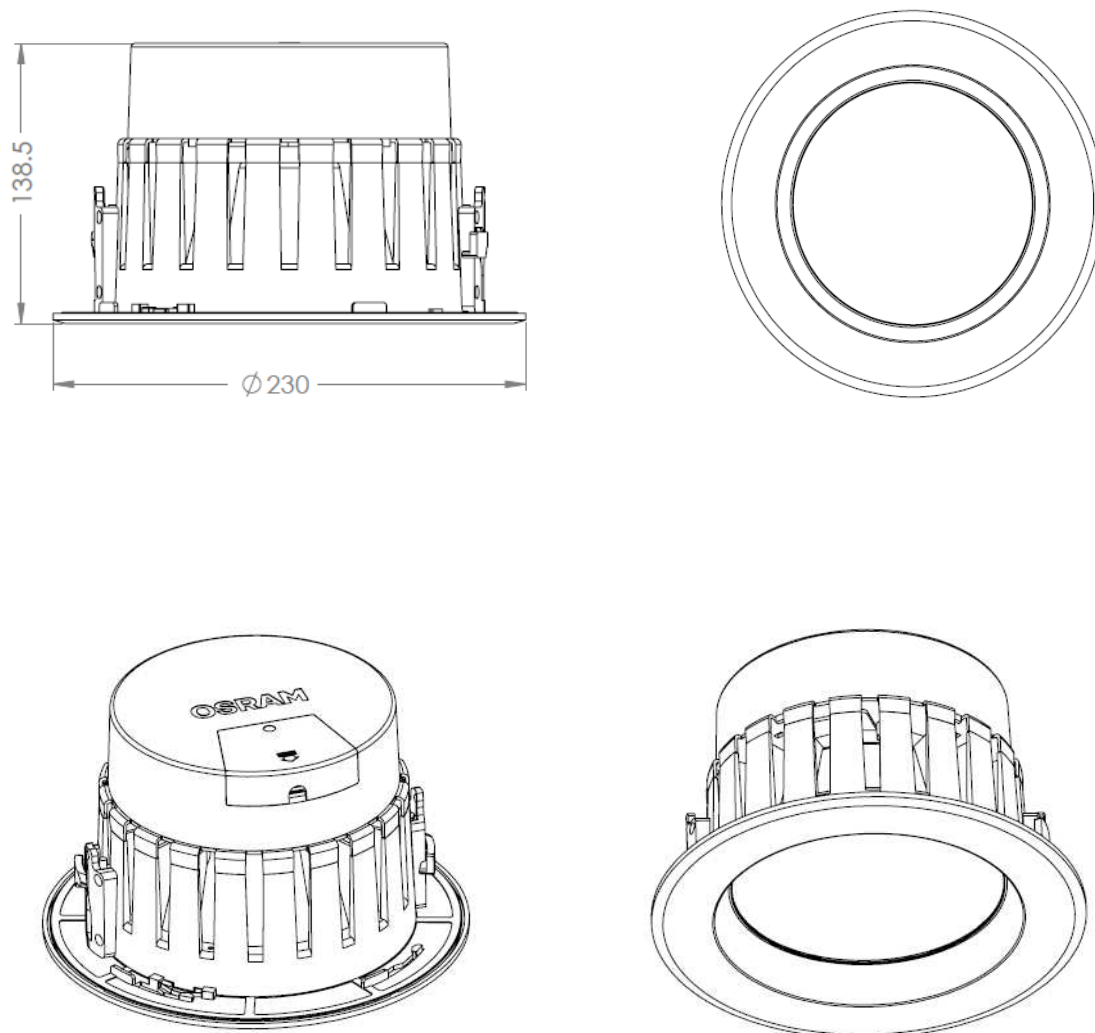
| Item                               | Parameter                            | LXPT MC12 ECO WT 830 L90                                                            | LXPT MC12 ECO WT 840 L90 | LXPT MC12 ECO WT 765 L90 |
|------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------|--------------------------|
| <b>Light Output</b> <sup>(1)</sup> | CCT (K)                              | 3000K                                                                               | 4000K                    | 6500K                    |
|                                    | Lumens (lm)                          | 1500                                                                                | 1650                     | 2000                     |
|                                    | Candela (cd)                         | 740                                                                                 | 810                      | 980                      |
|                                    | Beam Angle                           | 90°                                                                                 | 90°                      | 90°                      |
|                                    | Efficacy (lm/W)                      | 63                                                                                  | 69                       | 83                       |
|                                    | CRI                                  | 80                                                                                  | 80                       | 70                       |
|                                    | Lifetime                             | 50,000 hours                                                                        | 50,000 hours             | 50,000 hours             |
| <b>Electrical</b> <sup>(2)</sup>   | Input (V)                            | 220 ~ 240 Vac                                                                       |                          |                          |
|                                    | Frequency (Hz)                       | 50 / 60 Hz                                                                          |                          |                          |
|                                    | Power Consumption (W)                | 24                                                                                  |                          |                          |
|                                    | Power Factor                         | 0.9                                                                                 |                          |                          |
| <b>Mechanical</b>                  | Dimension (mm)                       | Ø230 x 140 (H) mm                                                                   |                          |                          |
|                                    | Mounting Holes                       | Ø 200mm                                                                             |                          |                          |
|                                    | Allowable mounting surface thickness | 2~20mm                                                                              |                          |                          |
|                                    | Optics                               | Reflector (PE) with Diffuser Cover (PC)                                             |                          |                          |
|                                    | Net Weight (g)                       | 1400 g                                                                              |                          |                          |
| <b>Temperature</b> <sup>(3)</sup>  | Ambient (°C)                         | -20°C to 40°C                                                                       |                          |                          |
|                                    | Storage (°C)                         | -30°C to 80°C                                                                       |                          |                          |
| <b>Standard Compliance</b>         | IP Rating                            | IP20 / IP44(downward)                                                               |                          |                          |
|                                    | Safety Class                         | Class II                                                                            |                          |                          |
|                                    | Approval Standard                    | IEC62031, IEC60598-1, IEC60598-2-2, EN61000-3-2, EN55015, EN61547, IEC62471, JDSD22 |                          |                          |
|                                    | Flammability                         | F, MM                                                                               |                          |                          |
|                                    | Environment                          | RoHS                                                                                |                          |                          |
| <b>Packaging</b>                   | Standard white box                   | Installation Manual included                                                        |                          |                          |

(1)Due to the special conditions of manufacturing processes of LED, the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of individual product which could differ from the typical data.

(2)Exceeding maximum ratings for operation voltage will cause hazardous overload and will likely destroy the LED luminaire.

(3)Exceeding maximum ratings for operation and storage temperature will reduce expected life time or destroy the LED luminaire.

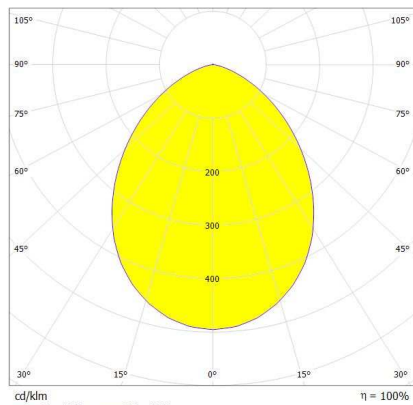
## DRAWINGS



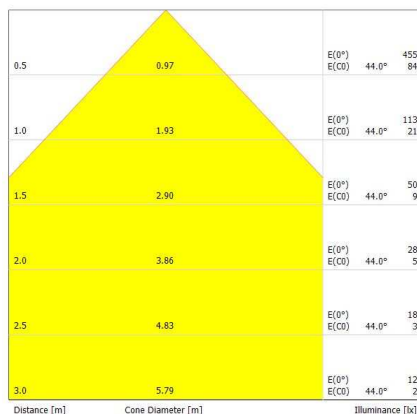
## PHOTOMETRICS

### Polar Candela Distribution for **LXPT MC20 HE 3000K**

Luminaire: OSRAM LXPT Macro 20HE  
Lamps: 1 x LED 3000K

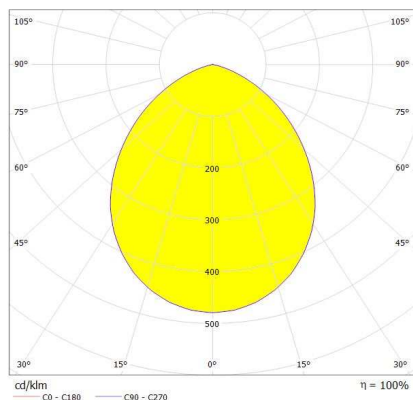


Luminaire: OSRAM LXPT Macro 20HE  
Lamps: 1 x LED 3000K



### Polar Candela Distribution for **LXPT MC20 HE 4000K**

Luminaire: OSRAM LXPT Macro 20HE  
Lamps: 1 x LED 4000K

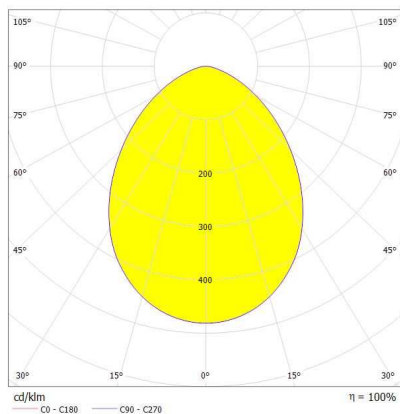


Luminaire: OSRAM LXPT Macro 20HE  
Lamps: 1 x LED 4000K

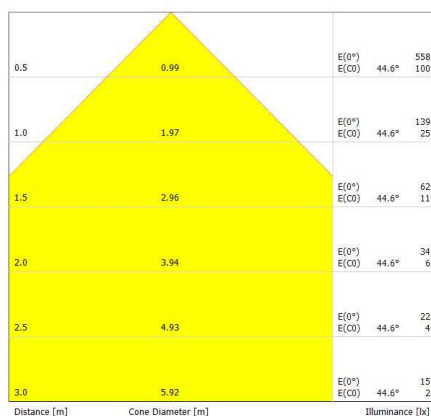


### Polar Candela Distribution for **LXPT MC20 HE 6500K**

Luminaire: OSRAM LXPT Macro 20HE  
Lamps: 1 x LED 6500K

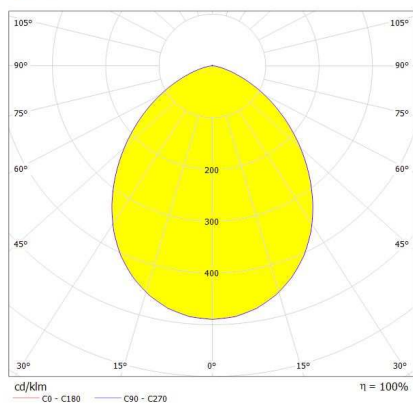


Luminaire: OSRAM LXPT Macro 20HE  
Lamps: 1 x LED 6500K



## Polar Candela Distribution for LXPT MC20 ECO 3000K

Luminaire: OSRAM LXPT Macro 20ECO  
Lamps: 1 x LED 3000K



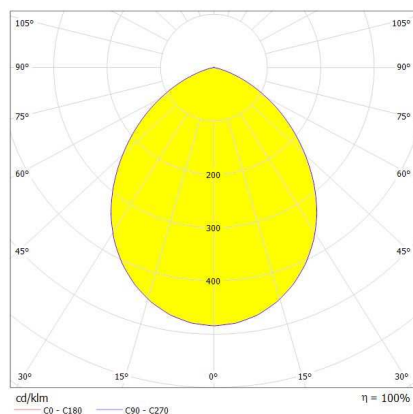
Luminaire: OSRAM LXPT Macro 20ECO  
Lamps: 1 x LED 3000K

|     |      |                |       |             |
|-----|------|----------------|-------|-------------|
| 0.5 | 0.98 | E(0°)<br>E(C0) | 44.3° | 4308<br>793 |
| 1.0 | 1.95 | E(0°)<br>E(C0) | 44.3° | 1077<br>198 |
| 1.5 | 2.93 | E(0°)<br>E(C0) | 44.3° | 479<br>88   |
| 2.0 | 3.90 | E(0°)<br>E(C0) | 44.3° | 269<br>50   |
| 2.5 | 4.88 | E(0°)<br>E(C0) | 44.3° | 172<br>32   |
| 3.0 | 5.86 | E(0°)<br>E(C0) | 44.3° | 120<br>22   |

Distance [m] Cone Diameter [m] Illuminance [lx]

## Polar Candela Distribution for LXPT MC20 ECO 4000K

Luminaire: OSRAM LXPT Macro 20ECO  
Lamps: 1 x LED 4000K



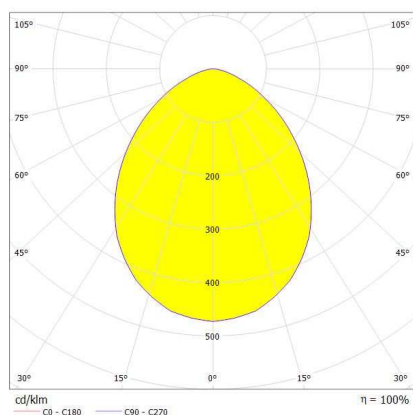
Luminaire: OSRAM LXPT Macro 20ECO  
Lamps: 1 x LED 4000K

|     |      |                |       |             |
|-----|------|----------------|-------|-------------|
| 0.5 | 1.02 | E(0°)<br>E(C0) | 45.6° | 4551<br>781 |
| 1.0 | 2.04 | E(0°)<br>E(C0) | 45.6° | 1138<br>195 |
| 1.5 | 3.06 | E(0°)<br>E(C0) | 45.6° | 506<br>87   |
| 2.0 | 4.08 | E(0°)<br>E(C0) | 45.6° | 284<br>49   |
| 2.5 | 5.11 | E(0°)<br>E(C0) | 45.6° | 182<br>31   |
| 3.0 | 6.13 | E(0°)<br>E(C0) | 45.6° | 126<br>22   |

Distance [m] Cone Diameter [m] Illuminance [lx]

## Polar Candela Distribution for LXPT MC20 ECO 6500K

Luminaire: OSRAM LXPT Macro 20ECO  
Lamps: 1 x LED 6500K



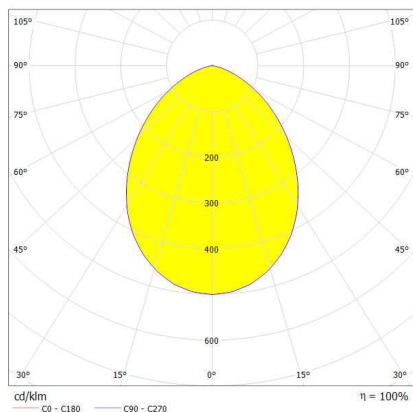
Luminaire: OSRAM LXPT Macro 20ECO  
Lamps: 1 x LED 6500K

|     |      |                |       |             |
|-----|------|----------------|-------|-------------|
| 0.5 | 1.00 | E(0°)<br>E(C0) | 45.0° | 5298<br>939 |
| 1.0 | 2.00 | E(0°)<br>E(C0) | 45.0° | 1325<br>235 |
| 1.5 | 3.00 | E(0°)<br>E(C0) | 45.0° | 589<br>104  |
| 2.0 | 4.00 | E(0°)<br>E(C0) | 45.0° | 331<br>59   |
| 2.5 | 5.00 | E(0°)<br>E(C0) | 45.0° | 212<br>38   |
| 3.0 | 6.00 | E(0°)<br>E(C0) | 45.0° | 147<br>25   |

Distance [m] Cone Diameter [m] Illuminance [lx]

## Polar Candela Distribution for LXPT MC12 ECO 3000K

Luminaire: OSRAM LXPT Macro 12ECO  
Lamps: 1 x LED 3000K



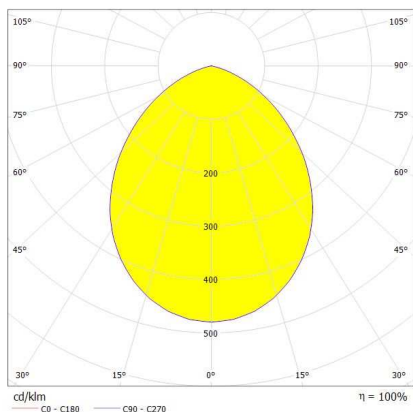
Luminaire: OSRAM LXPT Macro 12ECO  
Lamps: 1 x LED 3000K

|     |      |                |       |             |
|-----|------|----------------|-------|-------------|
| 0.5 | 0.95 | E(0°)<br>E(C0) | 43.5° | 3062<br>584 |
| 1.0 | 1.90 | E(0°)<br>E(C0) | 43.5° | 765<br>146  |
| 1.5 | 2.85 | E(0°)<br>E(C0) | 43.5° | 340<br>65   |
| 2.0 | 3.80 | E(0°)<br>E(C0) | 43.5° | 191<br>37   |
| 2.5 | 4.74 | E(0°)<br>E(C0) | 43.5° | 122<br>23   |
| 3.0 | 5.69 | E(0°)<br>E(C0) | 43.5° | 85<br>16    |

Distance [m] Cone Diameter [m] Illuminance [lx]

### Polar Candela Distribution for LXPT MC12 ECO 4000K

Luminaire: OSRAM LXPT Macro 12ECO  
Lamps: 1 x LED 4000K



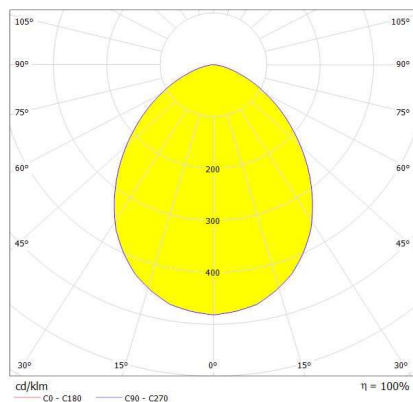
Luminaire: OSRAM LXPT Macro 12ECO  
Lamps: 1 x LED 4000K

|     |      |                |       |             |
|-----|------|----------------|-------|-------------|
| 0.5 | 1.02 | E(0°)<br>E(C0) | 45.7° | 3167<br>540 |
| 1.0 | 2.05 | E(0°)<br>E(C0) | 45.7° | 792<br>135  |
| 1.5 | 3.07 | E(0°)<br>E(C0) | 45.7° | 352<br>60   |
| 2.0 | 4.10 | E(0°)<br>E(C0) | 45.7° | 198<br>34   |
| 2.5 | 5.12 | E(0°)<br>E(C0) | 45.7° | 127<br>22   |
| 3.0 | 6.15 | E(0°)<br>E(C0) | 45.7° | 88<br>15    |

Distance [m] Cone Diameter [m] Illuminance [lx]

### Polar Candela Distribution for LXPT MC12 ECO 6500K

Luminaire: OSRAM LXPT Macro 12ECO  
Lamps: 1 x LED 6500K



Luminaire: OSRAM LXPT Macro 12ECO  
Lamps: 1 x LED 6500K

|     |      |                |       |             |
|-----|------|----------------|-------|-------------|
| 0.5 | 0.98 | E(0°)<br>E(C0) | 44.5° | 3856<br>700 |
| 1.0 | 1.97 | E(0°)<br>E(C0) | 44.5° | 964<br>175  |
| 1.5 | 2.95 | E(0°)<br>E(C0) | 44.5° | 428<br>78   |
| 2.0 | 3.93 | E(0°)<br>E(C0) | 44.5° | 241<br>44   |
| 2.5 | 4.91 | E(0°)<br>E(C0) | 44.5° | 154<br>28   |
| 3.0 | 5.90 | E(0°)<br>E(C0) | 44.5° | 107<br>19   |

Distance [m] Cone Diameter [m] Illuminance [lx]

Due to the special conditions of manufacturing processes of LED, the polar candela distribution and distance illuminance can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from the typical data.

## SAFETY NOTE

- The luminaire shall, under no circumstances, be covered with insulating matting or similar material.
- The LED luminaire itself and all its components may not be mechanical stressed.
- Assembly must not damage or destroy conducting paths on the circuit board.
- Installation of LED luminaire with (power supplies) needs to be made with regard to all applicable electrical and safety standards. Only qualified personnel should be allowed to perform installations.
- Correct electrical polarity needs to be observed. Wrong polarity may destroy the luminaires and will result in no light emission.
- Damage by corrosion will not be honored as a materials defect claim. It is the user's responsibility to provide suitable protection against corrosive agents such as moisture and condensation and other harmful elements.
- The design of the housing should be according to the IP standards in the application.

## ORDERING CODE

| Product Name          | Product Code             | EAN10         | EAN40         | Pcs/Box |
|-----------------------|--------------------------|---------------|---------------|---------|
| LUXPOINT™ MACRO 20HE  | LXPT MC20 HE WT 830 L90  | 4008321992482 | 4008321992512 | 4pcs    |
| LUXPOINT™ MACRO 20HE  | LXPT MC20 HE WT 840 L90  | 4008321992499 | 4008321992529 | 4pcs    |
| LUXPOINT™ MACRO 20HE  | LXPT MC20 HE WT 765 L90  | 4008321992604 | 4008321992635 | 4pcs    |
| LUXPOINT™ MACRO 20ECO | LXPT MC20 ECO WT 830 L90 | 4008321992505 | 4008321992536 | 4pcs    |
| LUXPOINT™ MACRO 20ECO | LXPT MC20 ECO WT 840 L90 | 4008321992543 | 4008321992574 | 4pcs    |
| LUXPOINT™ MACRO 20ECO | LXPT MC20 ECO WT 765 L90 | 4008321992628 | 4008321992642 | 4pcs    |
| LUXPOINT™ MACRO 12ECO | LXPT MC12 ECO WT 830 L90 | 4008321992550 | 4008321992581 | 4pcs    |
| LUXPOINT™ MACRO 12ECO | LXPT MC12 ECO WT 840 L90 | 4008321992567 | 4008321992598 | 4pcs    |
| LUXPOINT™ MACRO 12ECO | LXPT MC12 ECO WT 765 L90 | 4008321992611 | 4008321992659 | 4pcs    |

## SALES & TECHNICAL SUPPORT

### OSRAM Asia Pacific

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+852 3652 5678  
[www.osram.com](http://www.osram.com)

Sales and technical support is given by the local OSRAM subsidiaries. Complete subsidiaries listing is available at OSRAM homepage.