# Navata_Optus

Projectors | 1 arrayLED 35 W DC 950 mA | CRI 90
**82909M60**

## Technical data

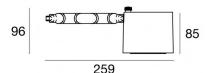| | |
|---|---|
| Type | Surface |
| Installation position | Wall lights - Ceiling - Floor |
| Installation environment | Indoor |
| Light Source | LED |
| Circuit structure | arrayLED |
| Optics | Medium Wide Flood |
| Light emission direction | frontal |
| Nominal power | 35 W DC |
| Source lumens | 4956 lm |
| Input voltage range | 950mA |
| CCT / Tone | 2700 K |
| Colour rendering index | 90 Ra |
| C.C. / C.V. | CC |
| Safety class | 3 |
| IP | IP20 |
| Glow wire test | 850° |
| Direct mounting on normally flammable surfaces | Yes |
| CE | Yes |
| Driver included | No |
| Dimmable article | DALI - 1-10V |
| Directional | Swivelling |
| total angle (vertical plane) | 180 ° |
| total angle (horizontal plane) | 360 ° |
| Tilting | No |
| Walk-over | No |
| Drive-over | No |
| Cable included | Yes |
| Cable length | 0,2 m |
| Resin potting | No |
| Type of light emission | Single emission |
| Net weight | 0.800 Kg |
| Electrostatic discharge protection | No |
| Surge protection | No |

## Finishing casing

| | |
|---|---|
| Material | Aluminium |
| Colour | Sand |
| Processing | Powder coating |

## Electronics

99146
On/Off Driver 198~264V AC (1 art.)

99330
DALI - Push and Simply Dim Multi Power 198~264V AC / 176~275V DC (1 art.)

83054
DALI-2 Controller (1 art.)

83055
Multi Power 198~264V AC / 176~264V DC (1 art.)

83051
DALI Multi Power 198~264V AC / 176~275V DC (1 art.)

83052
Multi Power 198~264V AC / 176~264V DC (1 art.)

83176
Bluetooth Controller (1 art.)

C-E100009
Multi Power 198~264V AC / 180~275V DC (1 art.)

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Projectors | 1 arrayLED 35 W DC 950 mA | CRI 90 | Base
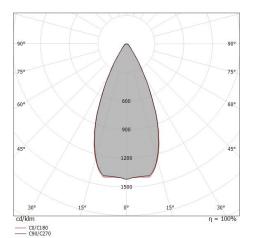**82909M60**

Single emission projectors for indoor application. The super warm white LED light source with a medium wide flood light distribution is composed of 1 arrayled LEDs with CCT of 2700 K and a CRI 90; the source luminous flux is 4956 lm, with a 141.6 lm/W nominal luminous efficacy.
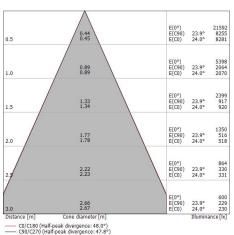
The device body is made of aluminium and features a sand finish, processed by means of powder coating. The ingress protection degree is IP20; the total weight is of 0.800 kg. The power supply driver is not provided and is to be ordered separately.

The total absorbed power is 35 W. The power supply cable is included and features a 0,2 m length.

The device features protection class III and can be wall lights, ceiling or floor-mounted.

Compliant with the EN 60598-1 standard and its specific provisions.

## Energy efficiency class

This product contains a light source of energy efficiency class E.

## Illuminotechnical Features

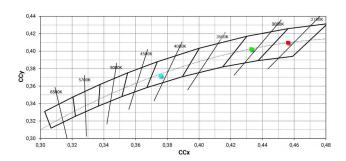| | |
|---|---|
| Light Output Ratio (LOR) | 76 % |
| Source lumens | 4956 lm |
| Delivered lumens | 3802 lm |
| Consumption | 34 W |
| Luminaire efficacy | 111 lm/W |
| Colour temperature | 2700 K |
| Standard Deviation of Colour Matching | 2 Step MacAdam |
| Colour rendering index | 90 Ra |
| Colour Rendering Index | 60 R9 |
| Black Body Locus | On |
| | |
| Standard Operating Ambient Temperature | -20 / +50°C |
| Ordinary temperature on the glass | 40°C |

## LED Life / Failure Ratio

L70 B10 C0 252000h (at Tj 65  Ta 25 )

## UGR

| | |
|---|---|
| UGR axial | 25.1 |
| UGR transversal | 25.2 |
| X=4H | Y=8H | S=0.25H |
| Reflection factor | 70/50/20 |

## OPTICAL

| | |
|---|---|
| C0/C180 optics | 48° |
| Light distribution simmetry | Symmetrical |

**COLOR VECTOR GRAPHIC**





cd/klm   η = 100%
— C0/C180
— C90/C270



| | | | | |
|---|---|---|---|---|
| 0.5 | 0.44 / 0.45 | E(0°) / E(C90) 23.9° / E(C0) 24.0° | 21592 / 8255 / 8281 |
| 1.0 | 0.89 / 0.89 | E(0°) / E(C90) 23.9° / E(C0) 24.0° | 5398 / 2064 / 2070 |
| 1.5 | 1.33 / 1.34 | E(0°) / E(C90) 23.9° / E(C0) 24.0° | 2399 / 917 / 920 |
| 2.0 | 1.77 / 1.78 | E(0°) / E(C90) 23.9° / E(C0) 24.0° | 1350 / 516 / 518 |
| 2.5 | 2.22 / 2.23 | E(0°) / E(C90) 23.9° / E(C0) 24.0° | 864 / 330 / 331 |
| 3.0 | 2.66 / 2.67 | E(0°) / E(C90) 23.9° / E(C0) 24.0° | 600 / 229 / 230 |

Distance [m]   Cone diameter [m]   Illuminance [lx]
— C0/C180 (Half-peak divergence: 48.0°)
— C90/C270 (Half-peak divergence: 47.8°)

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# Navata_Optus

Navata_Optus | Projectors | Accessories
**82909M60**

| | | | Code |
|---|---|---|---|
| | 20.4 / 63.9 / 78.4 / 32.4 | Fixing base - Base without power supply<br>Material:Iron, colour:Sand, processing:Coating. | 83242 |

| | | Code |
|---|---|---|
| | Diffuser - Not compatible with 60° optics | C-U300013 |

| | | Code |
|---|---|---|
| | Anti-glare<br>Anti-glare Type: honeycomb louvre.<br>Material:Pom-C, colour:Black. | C-U300014 |

| | | Code |
|---|---|---|
| | Anti-glare<br>Anti-glare Type: 45° cylindrical screen.<br>Material:Pom-C, colour:Black. | C-U300030 |

| | | Code |
|---|---|---|
| | Anti-glare<br>Anti-glare Type: cross louvres.<br>Material:Pom-C, colour:Black. | C-U300031 |

| | | Code |
|---|---|---|
| | Anti-glare<br>Anti-glare Type: cylindrical screen.<br>Material:Pom-C, colour:Black. | C-U300029 |

| | | Code |
|---|---|---|
| | Optics - SPOT<br>Light distribution: spot,Cover material: uv resistant polycarbonate | C-U300015 |

| | | Code |
|---|---|---|
| | Optics - FLOOD<br>Light distribution: flood,Cover material: ,uv resistant polycarbonate,uv resistant polycarbonate,uv resistant polycarbonate | C-U300016 |

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# Navata_Optus

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| | Optics - WIDE FLOOD | **Code** |
|---|---|---|
| | Light distribution: medium flood,Cover material: ,uv resistant polycarbonate,uv resistant polycarbonate,uv resistant polycarbonate | C-U300017 |

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| | Optics | **Code** |
|---|---|---|
| | Light distribution: adjustable,Cover material: ,aluminium | C-U300034 |

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