

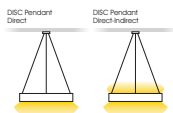
# INTERIOR PENDANT

## DISC PDD/PDDI

(Pendant Direct/Pendant Direct-Indirect)



- Disc is a complete series of round luminaires available for surface, pendant, recessed and trimless application.
- The pendant version is offered either with only Direct or Direct/Indirect illumination.
- It consists of two models: High Power and High Efficiency.
- It is offered with a Low Glare (UGR<22\*) as an option in the High Power model.
- It is offered with a Low UGR (UGR<19\*) as an option in the High Efficiency model.
- Luminaire material: Aluminium.
- Cover material: PMMA
- Powder Coated: Black (RAL9005), White (RAL9003), or Grey (RAL7037) as standard.
- Custom luminaire colours also available on request.
- Low tolerances for colour temperature (MacAdam 3).
- Lumen maintenance L80/B10 50,000h
- Emergency Function capability, (3 hours, with build-in rechargeable battery).
- Indoor Use: IP40



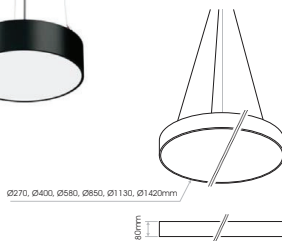
LED source efficacy up to 216lm/W (4000K)

Luminaire efficacy up to 148lm/W (4000K)

**Available upon request:**

- ✓ Custom luminaire colours
- ✓ Emergency version

\*Glare Evaluation: X=4H / Y=8H, S=0,25H, Reflection factors: 70/50/20





ELECTRON SA, PROFESSIONAL LIGHTING SYSTEMS - 68 Antichias St, N.Philadelphia, 14341 Athens, Greece, [info@electron.gr](mailto:info@electron.gr), [www.electron.gr](http://www.electron.gr)

## Pendant Direct



| Model                                                       | Luminaire Colour* | CCT        | Watt / Diameter          | CR1**<br>LED Source | CR1**<br>LED Source | Type              | Voltage      | Dimming Option        | Extras                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------|-------------------|------------|--------------------------|---------------------|---------------------|-------------------|--------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DISC Pendant Direct High Power</b><br>(DISC PDD HP)      | White (WH)        | 3000K (30) | <b>HIGH POWER</b>        | > 80 (80)<br>3000K  | > 80 (80)<br>4000K  | Opal (OP)         | 230VAC (230) | Non Dimmable (ND)     | <b>Function</b><br>Standard (000)<br>Emergency (100)<br><br><b>Canopy - Wire Rope Length</b><br>No Canopy - 1.5m (x00)<br>Cable SF - 1.5m (x01)<br>3m (x10)<br>3m (x11)<br>Cable RC - 1.5m (x20)<br>3m (x21)<br>Cable TR - 1.5m (x30)<br>3m (x31)<br>Hybrid SF - 1.5m (x40)<br>3m (x41)<br>Hybrid RC - 1.5m (x50)<br>3m (x51)<br>Hybrid TR - 1.5m (x60)<br>3m (x61)<br>Metal tube****1.2m (x70)<br>(without wire ropes) |
|                                                             | Black (BL)        | 4000K (40) | 11.9W / 27cm (12W027)    | 1910lm              | 2070lm              | Low Glare (LG)*** |              | Analogue (1-10V) (A1) |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                             | Grey (GR)         |            | 26.2W / 40cm (26W040)    | 3970lm              | 4170lm              |                   |              | DALI (DL)             |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                             |                   |            | 57.4W / 58cm (58W058)    | 8670lm              | 9110lm              |                   |              | Wireless (WL)         |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                             |                   |            | 123.8W / 85cm (124W085)  | 17980lm             | 18900lm             |                   |              |                       |                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>DISC Pendant Direct High Efficiency</b><br>(DISC PDD HE) |                   |            | 214.8W / 113cm (215W113) | 31060lm             | 32650lm             |                   |              |                       |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                             |                   |            | 336.6W / 142cm (337W142) | 49550lm             | 52200lm             |                   |              |                       |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                             |                   |            | <b>HIGH EFFICIENCY</b>   | > 80 (80)<br>3000K  | > 80 (80)<br>4000K  | Opal (OP)         |              |                       |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                             |                   |            | 4.5W / 27cm (05W027)     | 810lm               | 880lm               | Low UGR (LU)***   |              |                       |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                             |                   |            | 9.8W / 40cm (10W040)     | 1680lm              | 1770lm              |                   |              |                       |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                             |                   |            | 21.2W / 58cm (21W058)    | 3640lm              | 3830lm              |                   |              |                       |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                             |                   |            | 45.7W / 85cm (46W085)    | 7430lm              | 7810lm              |                   |              |                       |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                             |                   |            | 79.4W / 113cm (80W113)   | 12830lm             | 13490lm             |                   |              |                       |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                             |                   |            | 124.4W / 142cm (124W142) | 20590lm             | 21700lm             |                   |              |                       |                                                                                                                                                                                                                                                                                                                                                                                                                         |

\* Custom luminaire colours available upon request.

\*\* Available in CR190 upon request.

\*\*\* Low Glare (UGR<22), Low UGR (UGR<19)

\*\*\*\* Metal tube is not available for 27cm.

Ordering Code Example: DISC PDD HP-BL-30-58W058-80-LG-230-ND-011



## Pendant Direct-Indirect



IP40

| Model                                                                    | Luminaire Colour*        | CCT<br>DIRECT-<br>INDIRECT | Watt / Diameter | CRI**<br>LED Source | CRI**<br>LED Source | Type                                                                                                                                                                                                                                                                | Voltage         | Dimming Option              | Extras                                                  |
|--------------------------------------------------------------------------|--------------------------|----------------------------|-----------------|---------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------|---------------------------------------------------------|
| DISC Pendant<br>Direct-Indirect<br>High Power<br><br>(DISC PDDI HP)      | White<br>(WH)            | 3000K<br>3000K<br>(3030)   | HIGH POWER      | > 80 (80)<br>3000K  | > 80 (80)<br>4000K  | Opal<br>(OP)                                                                                                                                                                                                                                                        | 230VAC<br>(230) | Non Dimmable<br>(ND)        | Function<br>Standard<br>Emergency<br><br>(000)<br>(100) |
|                                                                          | Black<br>(BL)            | 3000K<br>4000K<br>(3040)   |                 | DIRECT-<br>INDIRECT | DIRECT-<br>INDIRECT | Low Glare<br>(LG)***                                                                                                                                                                                                                                                |                 | Analogue<br>(1-10V)<br>(A1) |                                                         |
|                                                                          | Grey<br>(GR)             | 17.9W / 27cm (18W027)      |                 | 1910lm<br>1020lm    | 2070lm<br>1050lm    | DALI<br>(DL)                                                                                                                                                                                                                                                        |                 | Canopy - Wire Rope Length   |                                                         |
|                                                                          | 40.4W / 40cm (40W040)    | 3970lm<br>2260lm           |                 | 4170lm<br>2450lm    | Wireless<br>(WL)    | No Canopy - 1.5m (x00)<br>3m (x01)<br>Cable SF - 1.5m (x10)<br>3m (x11)<br>Cable RC - 1.5m (x20)<br>3m (x21)<br>Cable TR - 1.5m (x30)<br>3m (x31)<br>Hybrid SF - 1.5m (x40)<br>3m (x41)<br>Hybrid RC - 1.5m (x50)<br>3m (x51)<br>Hybrid TR - 1.5m (x60)<br>3m (x61) |                 |                             |                                                         |
|                                                                          | 87.8W / 58cm (88W058)    | 8670lm<br>4540lm           |                 | 9110lm<br>4730lm    |                     |                                                                                                                                                                                                                                                                     |                 |                             |                                                         |
|                                                                          | 187.6W / 85cm (188W085)  | 17980lm<br>9500lm          |                 | 18900lm<br>9980lm   |                     |                                                                                                                                                                                                                                                                     |                 |                             |                                                         |
|                                                                          | 324.8W / 113cm (325W113) | 31060lm<br>16130lm         |                 | 32650lm<br>16950lm  |                     |                                                                                                                                                                                                                                                                     |                 |                             |                                                         |
|                                                                          | 503.7W / 142cm (504W142) | 49550lm<br>24600lm         |                 | 52200lm<br>25860lm  |                     |                                                                                                                                                                                                                                                                     |                 |                             |                                                         |
|                                                                          |                          |                            |                 |                     |                     |                                                                                                                                                                                                                                                                     |                 |                             |                                                         |
|                                                                          |                          |                            |                 |                     |                     |                                                                                                                                                                                                                                                                     |                 |                             |                                                         |
| DISC Pendant<br>Direct-Indirect<br>High Efficiency<br><br>(DISC PDDI HE) |                          |                            | HIGH EFFICIENCY | > 80 (80)<br>3000K  | > 80 (80)<br>4000K  | Opal<br>(OP)                                                                                                                                                                                                                                                        |                 |                             |                                                         |
|                                                                          |                          |                            |                 | DIRECT-<br>INDIRECT | DIRECT-<br>INDIRECT | Low UGR<br>(LU)***                                                                                                                                                                                                                                                  |                 |                             |                                                         |
|                                                                          |                          | 6.8W / 27cm (07W027)       |                 | 810lm<br>450lm      | 880lm<br>460lm      |                                                                                                                                                                                                                                                                     |                 |                             |                                                         |
|                                                                          |                          | 14.8W / 40cm (15W040)      |                 | 1680lm<br>900lm     | 1770lm<br>980lm     |                                                                                                                                                                                                                                                                     |                 |                             |                                                         |
|                                                                          |                          | 32W / 58cm (32W058)        |                 | 3640lm<br>1830lm    | 3830lm<br>1910lm    |                                                                                                                                                                                                                                                                     |                 |                             |                                                         |
|                                                                          |                          | 70W / 85cm (70W085)        |                 | 7430lm<br>4140lm    | 7810lm<br>4350lm    |                                                                                                                                                                                                                                                                     |                 |                             |                                                         |
|                                                                          |                          | 118.6W / 113cm (119W113)   |                 | 12830lm<br>6450lm   | 13490lm<br>6780lm   |                                                                                                                                                                                                                                                                     |                 |                             |                                                         |
|                                                                          |                          | 184.3W / 142cm (184W142)   |                 | 20590lm<br>9940lm   | 21700lm<br>10450lm  |                                                                                                                                                                                                                                                                     |                 |                             |                                                         |
|                                                                          |                          |                            |                 |                     |                     |                                                                                                                                                                                                                                                                     |                 |                             |                                                         |
|                                                                          |                          |                            |                 |                     |                     |                                                                                                                                                                                                                                                                     |                 |                             |                                                         |

- \* Custom luminaire colours available upon request.  
\*\* Available in CR190 upon request.  
\*\*\* Low Glare (UGR<22), Low UGR (UGR<19)

Ordering Code Example: DISC PDDI HE-BL-30-32W058-80-LU-230-ND-011





**DISC PDD**

HIGH POWER  
HIGH EFFICIENCY

|           |            |            |             |             |              |
|-----------|------------|------------|-------------|-------------|--------------|
| 12W<br>5W | 26W<br>10W | 58W<br>21W | 124W<br>46W | 215W<br>80W | 337W<br>124W |
|-----------|------------|------------|-------------|-------------|--------------|

**DISC PDDI**

HIGH POWER  
HIGH EFFICIENCY

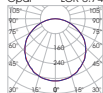
|           |            |            |             |              |              |
|-----------|------------|------------|-------------|--------------|--------------|
| 18W<br>7W | 40W<br>15W | 88W<br>32W | 188W<br>70W | 325W<br>119W | 504W<br>184W |
|-----------|------------|------------|-------------|--------------|--------------|

|               |         |         |         |         |          |          |
|---------------|---------|---------|---------|---------|----------|----------|
| <b>Weight</b> | 1.18kgs | 2.59kgs | 4.48kgs | 9.40kgs | 15.30kgs | 23.70kgs |
|---------------|---------|---------|---------|---------|----------|----------|

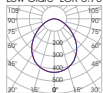
**Direct**

HIGH POWER

Opal LOR 0.74

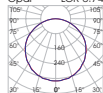


Low Glare LOR 0.73

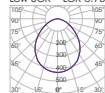


HIGH EFFICIENCY

Opal LOR 0.74



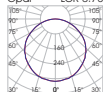
Low UGR LOR 0.73



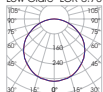
**Indirect**

HIGH POWER

Opal LOR 0.78

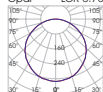


Low Glare LOR 0.78

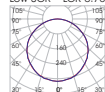


HIGH EFFICIENCY

Opal LOR 0.78



Low UGR LOR 0.78

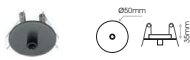


## Canopies & Suspension

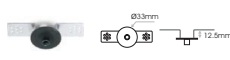
1. Cable SF (Surface)



2. Cable RC (Recessed)



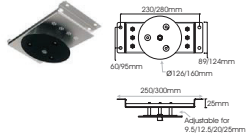
3. Cable TR (Trimless)



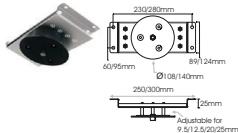
4. Hybrid SF (Surface)

Dimensions for  
27-40-58-85cm / 113-142cm


5. Hybrid RC (Recessed)

Dimensions for  
27-40-58-85cm / 113-142cm


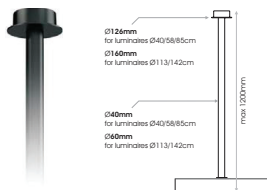
6. Hybrid TR (Trimless)

Dimensions for  
27-40-58-85cm / 113-142cm


Minimum allowed ceiling-luminaire distances for Hybrid canopies

for 27cm - 35cm      for 85cm - 85cm  
for 40cm - 40cm      for 113cm - 110cm  
for 58cm - 60cm      for 142cm - 160cm

For smaller distances, mount the wire ropes directly  
to the ceiling and use cable canopies.

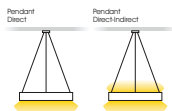
7. Metal Tube Suspension  
(only for Pendant Direct models)


# ECLIPSE PDD/PDDI

## (Pendant Direct/Pendant Direct-Indirect)



- ECLIPSE is a complete series of round luminaires available for surface, pendant, recessed and trackless application.
- The pendant version is offered either with only Direct or Direct/Indirect illumination.
- It consists of two models: High Power and High Efficiency.
- It is offered with a Low Glare (UGR<20.8\*) as an option in the High Power model.
- It is offered with a Low UGR (UGR<18\*) as an option in the High Efficiency model.
- Luminaire material: Aluminium.
- Cover material: PMMA
- Powder Coated: Black (RAL9005), White (RAL9003), or Grey (RAL7037) as standard.
- Custom luminaire colours also available on request.
- Low tolerances for colour temperature (MacAdam 3).
- Lumen maintenance L80/B10 50.000h
- Emergency Function capability. (3 hours, with built-in rechargeable battery).
- Indoor Use: IP40

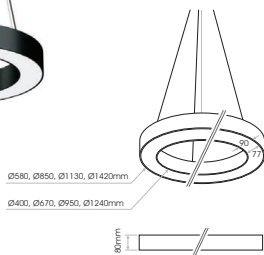


LED source efficacy up to 199lm/W (4000K)  
Luminaire efficacy up to 115lm/W (4000K)

### Available upon request:

- ✓ Custom luminaire colours
- ✓ Emergency version

\*Glare Evaluation: X=4H / Y=8H, S=0,25H, Reflection factors: 70/50/20







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# ECLIPSE PDD/PDDI

(Pendant Direct/Pendant Direct-Indirect)



LIGHTSOURCE BY



IP40

## Pendant Direct

| Model                                                                     | Luminaire Colour* | CCT           | Watt / Diameter          | CRI**<br>LED Source | CRI**<br>LED Source | Type                  | Voltage         | Dimming Option           | Extras                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------|-------------------|---------------|--------------------------|---------------------|---------------------|-----------------------|-----------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ECLIPSE<br/>Pendant Direct<br/>High Power</b><br>(ECLIPSE PDD HP)      | White<br>(WH)     | 3000K<br>(30) | <b>HIGH POWER</b>        | > 80 (80)<br>3000K  | > 80 (80)<br>4000K  | Opal<br>(OP)          | 230VAC<br>(230) | Non Dimmable<br>(ND)     | <b>Function</b><br>Standard (000)<br>Emergency (100)<br><br><b>Canopy - Wire Rope Length</b><br>No Canopy - 1.5m (000)<br>3m (001)<br>Cable SF - 1.5m (010)<br>3m (011)<br>Cable RC - 1.5m (020)<br>3m (021)<br>Cable TR - 1.5m (030)<br>3m (031)<br>Hybrid SF - 1.5m (040)<br>3m (041)<br>Hybrid RC - 1.5m (050)<br>3m (051)<br>Hybrid TR - 1.5m (060)<br>3m (061) |
|                                                                           | Black<br>(BL)     | 4000K<br>(40) | 46.2W / 58cm (46W058)    | 6910lm              | 7310lm              | Low Glare<br>(LG) *** |                 | Analogue<br>(1-10V) (A1) |                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                           | Grey<br>(GR)      |               | 75W / 85cm (75W085)      | 11070lm             | 11740lm             |                       |                 | DALI<br>(DL)             |                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                           |                   |               | 104.5W / 113cm (105W113) | 15490lm             | 16390lm             |                       |                 | Wireless<br>(WL)         |                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ECLIPSE<br/>Pendant Direct<br/>High Efficiency</b><br>(ECLIPSE PDD HE) |                   |               | <b>HIGH EFFICIENCY</b>   | > 80 (80)<br>3000K  | > 80 (80)<br>4000K  | Opal<br>(OP)          |                 |                          |                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                           |                   |               | 17.6W / 58cm (18W058)    | 2940lm              | 3110lm              | Low UGR<br>(LU) ***   |                 |                          |                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                           |                   |               | 26.7W / 85cm (27W085)    | 4450lm              | 4720lm              |                       |                 |                          |                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                           |                   |               | 37.2W / 113cm (37W113)   | 6230lm              | 6590lm              |                       |                 |                          |                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                           |                   |               | 47.8W / 142cm (48W142)   | 8020lm              | 8480lm              |                       |                 |                          |                                                                                                                                                                                                                                                                                                                                                                     |

\* Custom luminaire colours available upon request.

\*\* Available in CRI90 upon request.

\*\*\* Low Glare (UGR<20.8), Low UGR (UGR<18)

Ordering Code Example: ECLIPSE PDD HP-BL-30-105W/113-80-LG-230-ND-011



## Pendant Direct-Indirect



IP40

| Model                                                                       | Luminaire Colour* | CCT DIRECT-INDIRECT | Watt / Diameter        | CR** LED Source | CR** LED Source | Type              | Voltage      | Dimming Option        | Extras                           |
|-----------------------------------------------------------------------------|-------------------|---------------------|------------------------|-----------------|-----------------|-------------------|--------------|-----------------------|----------------------------------|
| <b>ECLIPSE Pendant Direct-Indirect High Power</b><br>(ECLIPSE PDDI HP)      | White (WH)        | 3000K (3030)        | <b>HIGH POWER</b>      | > 80 (80) 3000K | > 80 (80) 4000K | Opal (CP)         | 230VAC (230) | Non Dimmable (ND)     | <b>Function</b>                  |
|                                                                             | Black (BL)        | 3000K (3030)        |                        | DIRECT-INDIRECT | DIRECT-INDIRECT | Low Glare (LG)*** |              | Analogue (A1) (1-10V) | Standard (000)                   |
|                                                                             | Grey (GR)         | 3000K (3040)        |                        |                 |                 |                   |              | DALI (DL)             | Emergency (100)                  |
|                                                                             |                   | 4000K (4040)        |                        |                 |                 |                   |              | Wireless (WL)         |                                  |
|                                                                             |                   | 4000K (4030)        |                        |                 |                 |                   |              |                       |                                  |
| <b>ECLIPSE Pendant Direct-Indirect High Efficiency</b><br>(ECLIPSE PDDI HE) |                   | 3000K (3030)        | <b>HIGH EFFICIENCY</b> | > 80 (80) 3000K | > 80 (80) 4000K | Opal (CP)         |              |                       | <b>Canopy - Wire Rope Length</b> |
|                                                                             |                   | 3000K (3040)        |                        | DIRECT-INDIRECT | DIRECT-INDIRECT | Low UGR (LU)***   |              |                       | No Canopy - 1.5m (x00)           |
|                                                                             |                   | 4000K (4040)        |                        |                 |                 |                   |              |                       | 3m (x01)                         |
|                                                                             |                   | 4000K (4030)        |                        |                 |                 |                   |              |                       | Cable SF - 1.5m (x10)            |
|                                                                             |                   | 4000K (4030)        |                        |                 |                 |                   |              |                       | 3m (x21)                         |
|                                                                             |                   | 4000K (4030)        |                        |                 |                 |                   |              |                       | Cable RC - 1.5m (x20)            |
|                                                                             |                   | 4000K (4030)        |                        |                 |                 |                   |              |                       | 3m (x21)                         |
|                                                                             |                   | 4000K (4030)        |                        |                 |                 |                   |              |                       | Cable TR - 1.5m (x30)            |
|                                                                             |                   | 4000K (4030)        |                        |                 |                 |                   |              |                       | 3m (x31)                         |
|                                                                             |                   | 4000K (4030)        |                        |                 |                 |                   |              |                       | Hybrid SF - 1.5m (x40)           |
|                                                                             |                   | 4000K (4030)        |                        |                 |                 |                   |              |                       | 3m (x41)                         |
|                                                                             |                   | 4000K (4030)        |                        |                 |                 |                   |              |                       | Hybrid RC - 1.5m (x50)           |
|                                                                             |                   | 4000K (4030)        |                        |                 |                 |                   |              |                       | 3m (x51)                         |
|                                                                             |                   | 4000K (4030)        |                        |                 |                 |                   |              |                       | Hybrid TR - 1.5m (x60)           |
|                                                                             |                   | 4000K (4030)        |                        |                 |                 |                   |              |                       | 3m (x61)                         |

- \* Custom luminaire colours available upon request.  
\*\* Available in CR190 upon request.  
\*\*\* Low Glare (UGR<20.8), Low UGR (UGR<18)

Ordering Code Example: ECLIPSE PDDI HP-BL-30-157W113-80-LG-230-ND-011





**ECLIPSE PDD**  
HIGH POWER  
HIGH EFFICIENCY

46W  
18W

75W  
27W

105W  
37W

134W  
48W

**ECLIPSE PDDI**  
HIGH POWER  
HIGH EFFICIENCY

69W  
26W

113W  
40W

157W  
56W

201W  
72W

**Weight**

3.63Kgs

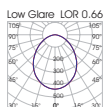
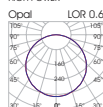
5.48Kgs

7.42Kgs

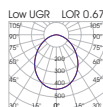
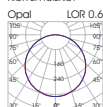
10Kgs

**Direct**

**HIGH POWER**

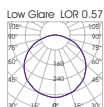
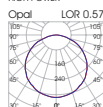


**HIGH EFFICIENCY**

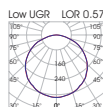
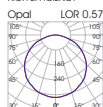


**Indirect**

**HIGH POWER**



**HIGH EFFICIENCY**



## Canopies & Suspension

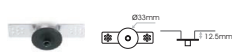
1. Cable SF (Surface)



2. Cable RC (Recessed)



3. Cable TR (Trimless)



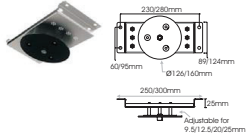
4. Hybrid SF (Surface)

Dimensions for  
27-40-58-85cm / 113-142cm



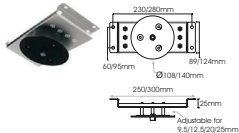
5. Hybrid RC (Recessed)

Dimensions for  
27-40-58-85cm / 113-142cm



6. Hybrid TR (Trimless)

Dimensions for  
27-40-58-85cm / 113-142cm



Minimum allowed ceiling-luminaire distances for Hybrid canopies

for 27cm - 35cm      for 85cm - 85cm  
for 40cm - 40cm      for 113cm - 110cm  
for 58cm - 60cm      for 142cm - 160cm

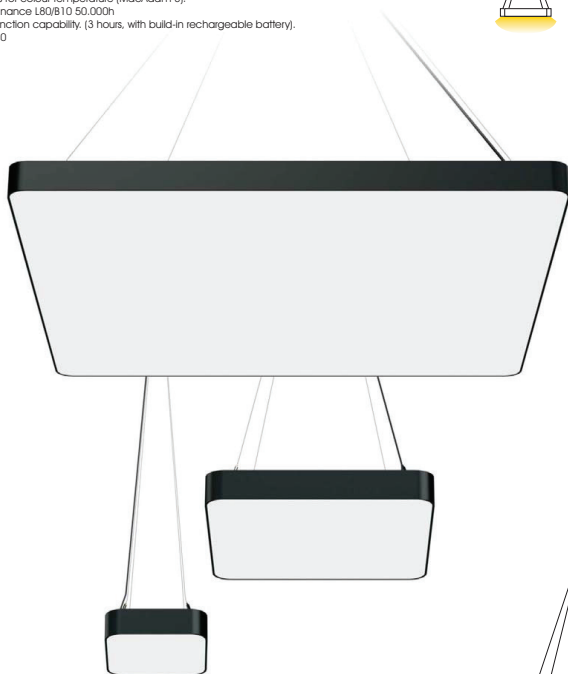
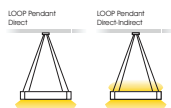
For smaller distances, mount the wire ropes directly to the ceiling and use cable canopies.

# LOOP PDD/PDDI

(Pendant Direct/Pendant Direct-Indirect)



- LOOP is a complete series of square with rounded corner luminaires available for surface, pendant, recessed and timeless application.
- The pendant version is offered either with only Direct or Direct/Indirect illumination.
- It consists of two models: High Power and High Efficiency.
- It is offered with a Low Glare (UGR<21,8\*) as an option in the High Power model.
- It is offered with a Low UGR (UGR<18,6\*) as an option in the High Efficiency model.
- Luminaire material: Aluminium.
- Cover material: PMMA
- Powder Coated: Black (RAL9005), White (RAL9003), or Grey (RAL7037) as standard.
- Custom luminaire colours also available on request.
- Low tolerances for colour temperature (MacAdam 3).
- Lumen maintenance L80/B10 50.000h
- Emergency Function capability, (3 hours, with built-in rechargeable battery).
- Indoor Use: IP40



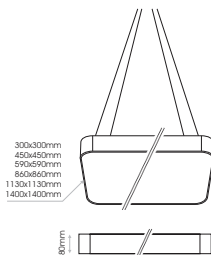
**LED source efficacy up to 203lm/W (4000K)**

**Luminaire efficacy up to 138lm/W (4000K)**

**Available upon request:**

- ✓ Custom luminaire colours
- ✓ Emergency version

\*Glare Evaluation: X=4H / Y=8H, S=0,25H, Reflection factors: 70/50/20





ELECTRON SA, PROFESSIONAL LIGHTING SYSTEMS - 68 Antiochias St, N.Philadephia, 14341 Athens, Greece, [info@electron.gr](mailto:info@electron.gr), [www.electron.gr](http://www.electron.gr)

## Pendant Direct



IP40

| Model                                                       | Luminaire Colour* | CCT        | Watt / Diameter                 | CR1**<br>LED Source | CR1**<br>LED Source | Type              | Voltage      | Dimming Option        | Extras                                           |
|-------------------------------------------------------------|-------------------|------------|---------------------------------|---------------------|---------------------|-------------------|--------------|-----------------------|--------------------------------------------------|
| <b>LOOP Pendant Direct High Power</b><br>(LOOP PDD HP)      | White (WH)        | 3000K (30) | <b>HIGH POWER</b>               | > 80 (80)<br>3000K  | > 80 (80)<br>4000K  | Opal (OP)         | 230VAC (230) | Non Dimmable (ND)     | Function Standard (000)                          |
|                                                             | Black (BL)        | 4000K (40) | 17.6W / 30x30cm (18W3030)       | 2660lm              | 2780lm              | Low Glare (LG)*** |              | Analogue (1-10V) (A1) | Emergency (100)                                  |
|                                                             |                   |            | 39.5W / 45x45cm (40W4545)       | 5860lm              | 6160lm              |                   |              |                       |                                                  |
|                                                             | Grey (GR)         |            | 75W / 59x59cm (75W5959)         | 10720lm             | 11270lm             |                   |              | DALI (DL)             | <b>Canopy - Wire Rope Length</b>                 |
|                                                             |                   |            | 153.5W / 86x86cm (154W8686)     | 22150lm             | 23290lm             |                   |              | Wireless (WL)         | No Canopy - 1.5m (000)                           |
| <b>LOOP Pendant Direct High Efficiency</b><br>(LOOP PDD HE) |                   |            | 272.8W / 113x113cm (273W113113) | 39380lm             | 41400lm             |                   |              |                       | Cable SF - 1.5m (010)                            |
|                                                             |                   |            | 426.3W / 140x140cm (426W140140) | 61540lm             | 64700lm             |                   |              |                       | 3m (011)                                         |
|                                                             |                   |            |                                 |                     |                     |                   |              |                       | Cable RC - 1.5m (020)                            |
|                                                             |                   |            |                                 |                     |                     |                   |              |                       | 3m (021)                                         |
|                                                             |                   |            |                                 |                     |                     |                   |              |                       | Cable TR - 1.5m (030)                            |
|                                                             |                   |            | <b>HIGH EFFICIENCY</b>          | > 80 (80)<br>3000K  | > 80 (80)<br>4000K  | Opal (OP)         |              |                       | 3m (031)                                         |
|                                                             |                   |            | 6.6W / 30x30cm (07W3030)        | 1130lm              | 1180lm              | Low UGR (LU)***   |              |                       | Hybrid SF - 1.5m (040)                           |
|                                                             |                   |            | 13.4W / 45x45cm (13W4545)       | 2250lm              | 2370lm              |                   |              |                       | 3m (041)                                         |
|                                                             |                   |            | 25.9W / 59x59cm (26W5959)       | 4200lm              | 4410lm              |                   |              |                       | Hybrid RC - 1.5m (050)                           |
|                                                             |                   |            | 58.3W / 86x86cm (58W8686)       | 9450lm              | 9930lm              |                   |              |                       | 3m (051)                                         |
|                                                             |                   |            | 103.7W / 113x113cm (104W113113) | 16790lm             | 17650lm             |                   |              |                       | Hybrid TR - 1.5m (060)                           |
|                                                             |                   |            | 162W / 140x140cm (162W140140)   | 26230lm             | 27580lm             |                   |              |                       | 3m (061)                                         |
|                                                             |                   |            |                                 |                     |                     |                   |              |                       | Metal tube****1.2m (070)<br>(without wire ropes) |

\* Custom luminaire colours available upon request.

\*\* Available in CR190 upon request.

\*\*\* Low Glare (UGR&lt;21.8), Low UGR (UGR&lt;18.6)

\*\*\*\* Metal tube is not available for 27cm.

Ordering Code Example: LOOP PDD HP-BL-30-154W8686-80-LG-230-ND-011





## Pendant Direct-Indirect


**IP40**

| Model                                                                 | Luminaire Colour* | CCT<br>DIRECT<br>INDIRECT | Watt / Diameter        | CR1**<br>LED Source             | CR1**<br>LED Source | Type              | Voltage      | Dimming<br>Option     | Extras                                                                                                                                                  |
|-----------------------------------------------------------------------|-------------------|---------------------------|------------------------|---------------------------------|---------------------|-------------------|--------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LOOP Pendant Direct-Indirect High Power</b><br>(LOOP PDDI HP)      | White (WH)        | 3000K (3030)              | <b>HIGH POWER</b>      | > 80 (80) 3000K                 | > 80 (80) 4000K     | Opal (OP)         | 230VAC (230) | Non Dimmable (ND)     | Function Standard (000) Emergency (100)                                                                                                                 |
|                                                                       | Black (BL)        | 3000K (3040)              |                        | DIRECT-INDIRECT                 | DIRECT-INDIRECT     | Low Glare (LG)*** |              | Analogue (1-10V) (A1) |                                                                                                                                                         |
|                                                                       | Grey (GR)         | 4000K (4040)              |                        | 26W / 30x30cm (26W3030)         | 2640lm 1400lm       | 2780lm 1440lm     |              | DALI (DL)             | Canopy - Wire Rope Length                                                                                                                               |
|                                                                       |                   | 4000K (4040)              |                        | 59.7W / 45x45cm (60W4545)       | 5860lm 2990lm       | 6160lm 3120lm     |              | Wireless (WL)         | No Canopy - 1.5m (x00) 3m (x01) 1.5m (x10) 3m (x11) 1.5m (x20) 3m (x21) 1.5m (x30) 3m (x31) 1.5m (x40) 3m (x41) 1.5m (x50) 3m (x51) 1.5m (x60) 3m (x61) |
|                                                                       |                   | 4000K (4030)              |                        | 114.5W / 59x59cm (115W5959)     | 10720lm 5860lm      | 11270lm 6160lm    |              |                       |                                                                                                                                                         |
|                                                                       |                   |                           |                        | 235.3W / 86x86cm (235W8686)     | 22150lm 11570lm     | 23290lm 12160lm   |              |                       |                                                                                                                                                         |
|                                                                       |                   |                           |                        | 409.4W / 113x113cm (409W113113) | 39380lm 20900lm     | 41400lm 21820lm   |              |                       |                                                                                                                                                         |
|                                                                       |                   |                           |                        | 641.1W / 140x140cm (641W140140) | 61540lm 29720lm     | 64700lm 31230lm   |              |                       |                                                                                                                                                         |
|                                                                       |                   |                           |                        |                                 |                     |                   |              |                       |                                                                                                                                                         |
|                                                                       |                   |                           |                        |                                 |                     |                   |              |                       |                                                                                                                                                         |
| <b>LOOP Pendant Direct-Indirect High Efficiency</b><br>(LOOP PDDI HE) |                   |                           | <b>HIGH EFFICIENCY</b> | > 80 (80) 3000K                 | > 80 (80) 4000K     | Opal (OP)         |              |                       |                                                                                                                                                         |
|                                                                       |                   |                           |                        | DIRECT-INDIRECT                 | DIRECT-INDIRECT     | Low UGR (LU)***   |              |                       |                                                                                                                                                         |
|                                                                       |                   |                           |                        | 9.4W / 30x30cm (09W3030)        | 1130lm 550lm        | 1180lm 560lm      |              |                       |                                                                                                                                                         |
|                                                                       |                   |                           |                        | 20.6W / 45x45cm (21W4545)       | 2250lm 1220lm       | 2370lm 1280lm     |              |                       |                                                                                                                                                         |
|                                                                       |                   |                           |                        | 39.3W / 59x59cm (39W5959)       | 4200lm 2250lm       | 4410lm 2370lm     |              |                       |                                                                                                                                                         |
|                                                                       |                   |                           |                        | 87.5W / 86x86cm (88W8686)       | 9450lm 4690lm       | 9930lm 4930lm     |              |                       |                                                                                                                                                         |
|                                                                       |                   |                           |                        | 152.3W / 113x113cm (152W113113) | 16790lm 8390lm      | 17650lm 8760lm    |              |                       |                                                                                                                                                         |
|                                                                       |                   |                           |                        | 242.2W / 140x140cm (242W140140) | 26230lm 12770lm     | 27580lm 13420lm   |              |                       |                                                                                                                                                         |
|                                                                       |                   |                           |                        |                                 |                     |                   |              |                       |                                                                                                                                                         |
|                                                                       |                   |                           |                        |                                 |                     |                   |              |                       |                                                                                                                                                         |

\* Custom luminaire colours available upon request.

\*\* Available in CR190 upon request.

\*\*\* Low Glare (UGR<21,8), Low UGR (UGR<18,6)

Ordering Code Example: LOOP PDDI HE-BL-30-88W8686-80-LU-230-ND-011





**LOOP PDD**

HIGH POWER  
HIGH EFFICIENCY

18W  
7W

40W  
13W

75W  
26W

154W  
58W

273W  
104W

426W  
162W

**LOOP PDDI**

HIGH POWER  
HIGH EFFICIENCY

26W  
9W

60W  
21W

115W  
39W

235W  
88W

409W  
152W

641W  
242W

**Weight**

1.55kgs

3.46kgs

6.24kgs

11.70kgs

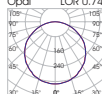
18.80kgs

28kgs

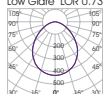
**Direct**

**HIGH POWER**

Opal LOR 0.74

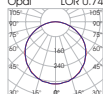


Low Glare LOR 0.73

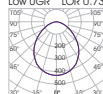


**HIGH EFFICIENCY**

Opal LOR 0.74



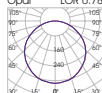
Low UGR LOR 0.73



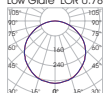
**Indirect**

**HIGH POWER**

Opal LOR 0.78

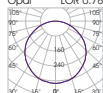


Low Glare LOR 0.78

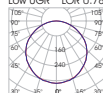


**HIGH EFFICIENCY**

Opal LOR 0.78



Low UGR LOR 0.78



## Canopies & Suspension

1. Cable SF (Surface)



2. Cable RC (Recessed)



3. Cable TR (Trimless)



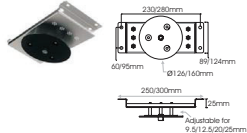
4. Hybrid SF (Surface)

Dimensions for  
27-40-58-85cm / 113-142cm



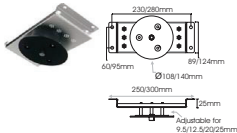
5. Hybrid RC (Recessed)

Dimensions for  
27-40-58-85cm / 113-142cm



6. Hybrid TR (Trimless)

Dimensions for  
27-40-58-85cm / 113-142cm

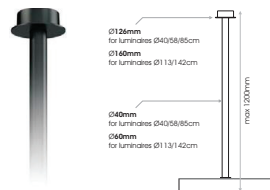


Minimum allowed ceiling-luminaire distances for Hybrid canopies

for 27cm - 35cm    for 85cm - 85cm  
for 40cm - 40cm    for 113cm - 110cm  
for 58cm - 60cm    for 142cm - 160cm

For smaller distances, mount the wire ropes directly to the ceiling and use cable canopies.

7. Metal Tube Suspension  
(only for Pendant Direct models)

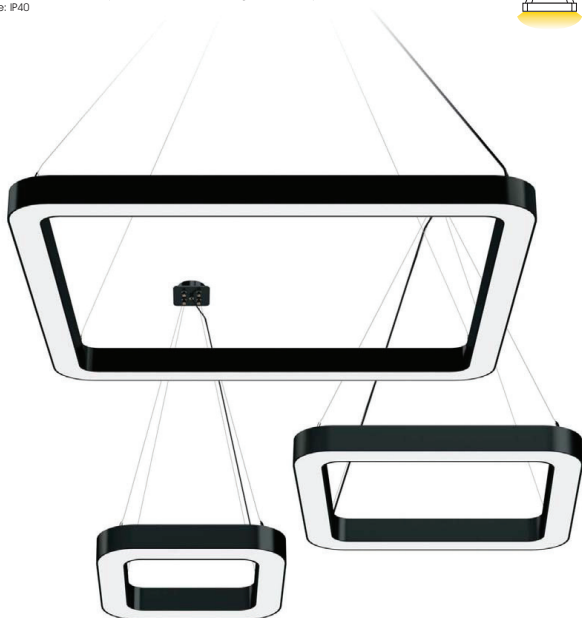
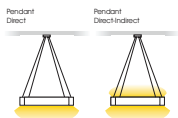


# ORBIT PDD/PDDI

(Pendant Direct/Pendant Direct-Indirect)



- ORBIT is a complete series of square with rounded corner luminaires available for surface, pendant, recessed and trackless application.
- The pendant version is offered either with only Direct or Direct/Indirect illumination.
- It consists of two models: High Power and High Efficiency.
- It is offered with a Low Glare (UGR<20.8\*) as an option in the High Power model.
- It is offered with a Low UGR (UGR<18\*) as an option in the High Efficiency model.
- Luminaire material: Aluminium.
- Cover material: PMMA
- Powder Coated: Black (RAL9005), White (RAL9003), or Grey (RAL7037) as standard.
- Custom luminaire colours also available on request.
- Low tolerances for colour temperature (MacAdam 3).
- Lumen maintenance L80/B10 50.000h
- Emergency Function capability. (3 hours, with build-in rechargeable battery).
- Indoor Use: IP40



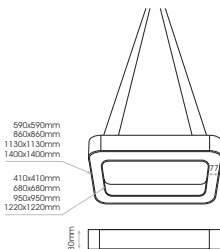
LED source efficacy up to 202lm/W (4000K)

Luminaire efficacy up to 117lm/W (4000K)

## Available upon request:

- ✓ Custom luminaire colours
- ✓ Emergency version

\*Glare Evaluation: X=4H / Y=8H, S=0,25H, Reflection factors: 70/50/20





ELECTRON SA, PROFESSIONAL LIGHTING SYSTEMS - 68 Antiochias St, N.Philadephia, 14341 Athens, Greece, [info@electron.gr](mailto:info@electron.gr), [www.electron.gr](http://www.electron.gr)

## Pendant Direct



IP40

| Model                                                         | Luminaire Colour* | CCT        | Watt / Diameter                 | CR1**<br>LED Source | CR1**<br>LED Source       | Type                      | Voltage      | Dimming Option        | Extras                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------|-------------------|------------|---------------------------------|---------------------|---------------------------|---------------------------|--------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ORBIT Pendant Direct High Power</b><br>(ORBIT PDD HP)      | White (WH)        | 3000K (30) | <b>HIGH POWER</b>               |                     | > 80 (80)<br><b>3000K</b> | > 80 (80)<br><b>4000K</b> | 230VAC (230) | Non Dimmable (ND)     | <b>Function</b><br>Standard (00)<br>Emergency (100)<br><br><b>Canopy - Wire Rope Length</b><br>No Canopy - 1.5m (00)<br>Cable SF - 1.5m (01)<br>Cable RC - 1.5m (11)<br>Cable TR - 1.5m (21)<br>Hybrid SF - 1.5m (31)<br>Hybrid RC - 1.5m (41)<br>Hybrid TR - 1.5m (51)<br>3m (61) |
|                                                               | Black (BK)        | 4000K (40) | 61.6W / 59x59cm (62W5959)       | 9210lm              | 9750lm                    | Low Glare (LG)***         |              | Analogue (1-10V) (A1) |                                                                                                                                                                                                                                                                                    |
|                                                               | Grey (GR)         |            | 93.6W / 86x86cm (94W8686)       | 14050lm             | 14860lm                   |                           |              | DALI (DL)             |                                                                                                                                                                                                                                                                                    |
|                                                               |                   |            | 128.7W / 113x113cm (129W113113) | 19320lm             | 20430lm                   |                           |              | Wireless (WL)         |                                                                                                                                                                                                                                                                                    |
| <b>ORBIT Pendant Direct High Efficiency</b><br>(ORBIT PDD HE) |                   |            | 163.9W / 140x140cm (164W140140) | 24590lm             | 26000lm                   |                           |              |                       |                                                                                                                                                                                                                                                                                    |
|                                                               |                   |            | <b>HIGH EFFICIENCY</b>          |                     | > 80 (80)<br><b>3000K</b> | > 80 (80)<br><b>4000K</b> | Opal (OP)    |                       |                                                                                                                                                                                                                                                                                    |
|                                                               |                   |            | 23.4W / 59x59cm (23W5959)       | 3920lm              | 4150lm                    | Low UGR (LU)***           |              |                       |                                                                                                                                                                                                                                                                                    |
|                                                               |                   |            | 32.8W / 86x86cm (33W8686)       | 5560lm              | 5880lm                    |                           |              |                       |                                                                                                                                                                                                                                                                                    |
|                                                               |                   |            | 45.1W / 113x113cm (45W113113)   | 7650lm              | 8090lm                    |                           |              |                       |                                                                                                                                                                                                                                                                                    |
|                                                               |                   |            | 57.4W / 140x140cm (57W140140)   | 9730lm              | 10290lm                   |                           |              |                       |                                                                                                                                                                                                                                                                                    |

\* Custom luminaire colours available upon request.

\*\* Available in CR190 upon request.

\*\*\* Low Glare (UGR&lt;20.8), Low UGR (UGR&lt;18)

Ordering Code Example: ORBIT PDD HP-WH-30-94W8686-80-LG-230-ND-011



## Pendant Direct-Indirect



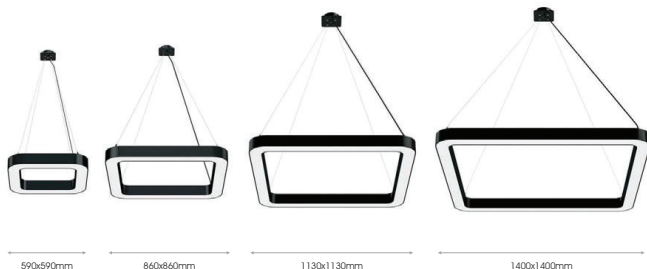
IP40

| Model                                                                           | Luminaire Colour* | CCT<br>DIRECT-<br>INDIRECT | Watt / Diameter   | CRF**<br>LED Source             | CRF***<br>LED Source | Type                  | Voltage         | Dimming<br>Option    | Extras                                                     |
|---------------------------------------------------------------------------------|-------------------|----------------------------|-------------------|---------------------------------|----------------------|-----------------------|-----------------|----------------------|------------------------------------------------------------|
| <b>ORBIT Pendant<br/>Direct-Indirect<br/>High Power</b><br>(ORBIT PDDI HP)      | White<br>(WH)     | 3000K<br>3000K<br>(3030)   | <b>HIGH POWER</b> | > 80 (80)<br>3000K              | > 80 (80)<br>4000K   | Opal<br>(OP)          | 230VAC<br>(230) | Non Dimmable<br>(ND) | <b>Function</b><br>Standard<br>(0/0)<br>Emergency<br>(1/0) |
|                                                                                 | Black<br>(BK)     | 3000K<br>4000K<br>(3040)   |                   | DIRECT-<br>INDIRECT             | DIRECT-<br>INDIRECT  | Low Glare<br>(LG) *** |                 |                      |                                                            |
|                                                                                 | Grey<br>(GR)      | 3000K<br>4000K<br>(4040)   |                   | 92.5W / 59x59cm (93W5959)       | 9210lm<br>4610lm     | 9750lm<br>5070lm      |                 |                      |                                                            |
|                                                                                 |                   | 4000K<br>4000K<br>(4040)   |                   | 144.5W / 86x86cm (145W8686)     | 14050lm<br>7770lm    | 14860lm<br>8540lm     |                 |                      |                                                            |
|                                                                                 |                   | 4000K<br>3000K<br>(4030)   |                   | 194.1W / 113x113cm (194W113113) | 19320lm<br>10140lm   | 20430lm<br>11150lm    |                 |                      |                                                            |
| <b>ORBIT Pendant<br/>Direct-Indirect<br/>High Efficiency</b><br>(ORBIT PDDI HE) |                   |                            |                   | 251W / 140x140cm (251W140140)   | 24590lm<br>13520lm   | 26000lm<br>14870lm    |                 |                      |                                                            |
|                                                                                 |                   |                            |                   |                                 |                      |                       |                 |                      |                                                            |
|                                                                                 |                   |                            |                   |                                 |                      |                       |                 |                      |                                                            |
|                                                                                 |                   |                            |                   |                                 |                      |                       |                 |                      |                                                            |
|                                                                                 |                   |                            |                   |                                 |                      |                       |                 |                      |                                                            |

- \* Custom luminaire colours available upon request.
- \*\* Available in CRF90 upon request.
- \*\*\* Low Glare (UGR<20.8), Low UGR (UGR<18)

Ordering Code Example: ORBIT PDDI HE-WH-30-66W113113-80-LU-230-ND-011





**ORBIT PDD**  
HIGH POWER  
HIGH EFFICIENCY

62W  
23W

94W  
33W

129W  
45W

164W  
57W

**ORBIT PDDI**  
HIGH POWER  
HIGH EFFICIENCY

93W  
34W

145W  
50W

194W  
66W

251W  
85W

**Weight**

4.40Kgs

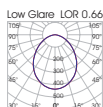
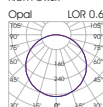
6.66Kgs

9Kgs

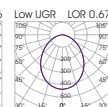
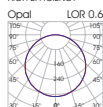
11.9Kgs

**Direct**

**HIGH POWER**

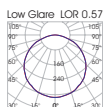
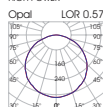


**HIGH EFFICIENCY**

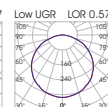
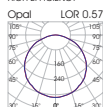


**Indirect**

**HIGH POWER**



**HIGH EFFICIENCY**





## Canopies & Suspension

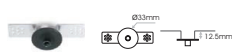
1. Cable SF (Surface)



2. Cable RC (Recessed)



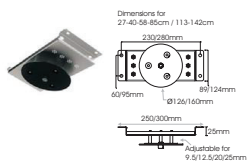
3. Cable TR (Trimless)



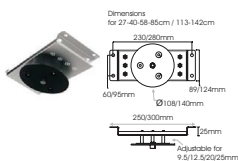
4. Hybrid SF (Surface)



5. Hybrid RC (Recessed)



6. Hybrid TR (Trimless)



Minimum allowed ceiling-luminaire distances for Hybrid canopies

for 27cm - 35cm      for 85cm - 85cm  
for 40cm - 40cm      for 113cm - 110cm  
for 58cm - 60cm      for 142cm - 160cm

For smaller distances, mount the wire ropes directly to the ceiling and use cable canopies.

- AURIGA is a slim pendant luminaire available in non-dimmable version.
- 3 SDCM
- L90/B10 - 50.000h



LIGHTSOURCE BY  
**bridgelux.**

| Model<br>(LED Power)             | CCT         | LED Source / per LED | Type       | CRI       | Beam<br>Angle | Colour     | Dimming Option           |
|----------------------------------|-------------|----------------------|------------|-----------|---------------|------------|--------------------------|
| <b>AURIGA 6.4W</b><br>(AURIGA 6) | 2700K (27B) | 505lm                | Fixed (FX) | 70* (70)  | 33° (33)      | White (WH) | Non-Dimmable 230VAC (ND) |
|                                  | 3000K (30B) | 550lm                |            | 80 (80)   | 47° (47)      |            |                          |
|                                  | 4000K (40B) | 590lm                |            | 90** (90) | 65° (65)      |            |                          |
|                                  | 5600K (56B) | 685lm                |            |           |               |            |                          |

\* 5600K only available in CRI 70

\*\* CRI 90 only for 2700K & 3000K

Ordering Code Example: AURIGA 6- 30B-70-47-FX-WH-ND





Interior Pendant

## ADORNO Pendant Retrofit

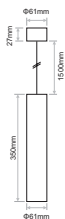
- Adorno series pendant light with GU10 lampholder, max 7.5W (lamp not included).
- Powder coated Aluminium housing.
- Minimal aesthetic for contemporary architectural design.
- Available in white or black colour for the outer housing and in white, black or gold for the inner housing.

| Model                                     | Outer Colour - Inner Colour                                                                                        | Type       | Lamp Holder          |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------|----------------------|
| <b>ADORNO PD Retrofit</b><br>(ADORNO PDR) | White-Black (WB)<br>White-White (WW)<br>White-Gold (WG)<br>Black-Black (BB)<br>Black-White (BW)<br>Black-Gold (BG) | Fixed (FX) | GU10 (max 7.5W) (G1) |



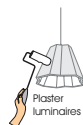
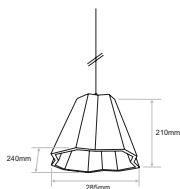
Lamp  
Not included

Ordering Code Example: ADORNO PDR-WB-FX-G1



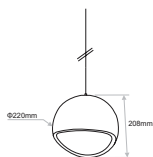


| Code   | Model | Lamp Holder | Maximum Consumption | Voltage    | Lamp         | Weight | IP Rate |
|--------|-------|-------------|---------------------|------------|--------------|--------|---------|
| PCP001 | JERIS | E27         | 40W                 | 220-240VAC | Not included | 3.1Kg  | IP20    |





| Code   | Model | Lamp Holder | Maximum Consumption | Voltage    | Lamp         | Weight | IP Rate |
|--------|-------|-------------|---------------------|------------|--------------|--------|---------|
| PCP002 | IRIS  | E27         | 40W                 | 220-240VAC | Not included | 3.4Kg  | IP20    |





| Code   | Model | Lamp Holder | Maximum Consumption | Voltage    | Lamp         | Weight | IP Rate |
|--------|-------|-------------|---------------------|------------|--------------|--------|---------|
| PCR003 | METIS | E27         | 40W                 | 220-240VAC | Not included | 2Kg    | IP20    |

