

# GreenSpace Power Gen2

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Indoor Segment  
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**PHILIPS**

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# Snapshot of LED Downlight

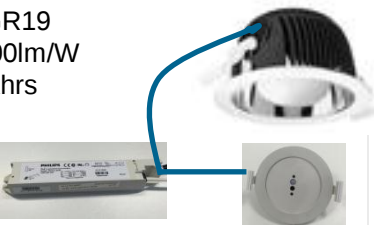
| Category    |                                                                                                      | KPIs     |               |                |       |          | Applications |              |             |        |              |
|-------------|------------------------------------------------------------------------------------------------------|----------|---------------|----------------|-------|----------|--------------|--------------|-------------|--------|--------------|
|             |                                                                                                      | Efficacy | Light quality | Design quality | lm/\$ | Lifetime | Office       | Retail store | Hotel lobby | Museum | 24 operation |
| Statement   | <br>LuxSpace Gen3   | *****    | *****         | *****          | **    | *****    | ★            | ★            |             |        | ★            |
| Performance | <br>GreenSpace Gen4 | *****    | *****         | *****          | ***** | *****    | ★            | ★            |             |        | ★            |
| Performance | <br>GS POWER Gen2  | *****    | *****         | *****          | ***** | *****    |              | ★            | ★           |        | ★            |

- LuxSpace Gen3 - Superior design delivering quality and digital light with office norm compliance
- GreenSpace Gen4 - Perfect replacement for CFL downlight delivering efficient and comfortable light
- GreenSpace Power Gen2 - The most cost-effective specification downlight to replace CDM 70+W

# LED Downlight Category

Application: Office, Shop, Hospitality, Healthcare and Indoor public indoor space etc.

GreenSpace –Best TCO payback story, specification downlight suitable for both retail and office applications

|             | Positioning                                                                                                                                                                  | 2014                                                                                                                                                                                                                                    | 2015                                                                                                                                                                                                                                                                                                                                    | 2016                                                                                                                                                                                                                       |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Statement   | <b>LuxSpace Series</b><br>Best visual comfort and leading technology LED downlight                                                                                           | <b>(upgrade) Luxspace Gen3</b><br>-best visual comfort (UGR19)<br>-100lm/W<br>-50khrs<br>-DALI dimming                                                 | <b>POE LuxSpace</b><br>- 2500lm<br>- UGR19<br>- >100lm/W<br>- 50khrs                                                                                                                                                                                  |                                                                                                                                                                                                                            |
| Performance | <b>GreenSpace</b><br>Best TCO payback story LED specification<br>Downlight : <0.5 years for new installation vs 145 CFL solution                                             |                                                                                                                                                                                                                                         | <b>GreenSpace Gen4 (CFL replacement)</b><br>-High efficacy (Typ. 95~ 100lm/W)<br>-UGR 22 for office range<br>-Full range (3 CCT's ,4 lm packages and 3 cut out sizes)<br>-SDCM <5<br>- CRI >80<br>-long life time (50kh)<br>-DALI dimming<br>-IP 54  | <b>Surface Mounted Downlight</b><br>- 1000/2000/3800/6600lm<br>- 100lm/W<br>- 3000/4000/6500K<br>- 50Khours                             |
| Performance | <b>GreenSpace POWER</b><br>High lumen output version derived from GreenSpace<br>Best TCO payback history LED Downlight : <0.5 years for new installation vs 145 CDM solution | GreenSpace POWER (CDM 50/70w replacement)<br>-3500lm@38w@8" & 10"<br>-4500lm@50w@8" & 10"<br>-3000K/3500K/4000K<br>-CRI80<br>-long life time (50kh)  |                                                                                                                                                                                                                                                                                                                                         | <b>GreenSpace POWER Gen2</b><br>-3500lm@34W<br>-4500lm@41W<br>- Cut-out 8" & 10"<br>-3000K/4000K<br>-CRI80<br>-long life time (50kh)  |

# Features and Benefits



- Energy saving: Outstanding system efficacy, up to **110lm/W**
- High lumen output for high ceiling application, up to **4,500lm**
- Good reliability – Lifetime **50,000hours** L70@25C
- Easy: Integral lightweight design, saving installation cost

# Applications

- Department store
- Exhibition center
- Shopping mall
- Indoor public area
- Reception lobby
- Boutiques



# GreenSpace Power Gen2 Designation

Eg. DN284B-8 1xDLED-3000 PSU WH

1

2

3

## 1 Lumen output

**DN284B: 3500lm**

**DN285B: 4500lm**

## 2 Cut-out size

**8: 8" - 200~205mm**

**10: 10" - 250~255mm**



Cut-out 8"



Cut-out 10"

## 3 Color temperature

**3000: 3000K**

**4000: 4000K**

## ETO options

**CCT – 3500K, 6500K**

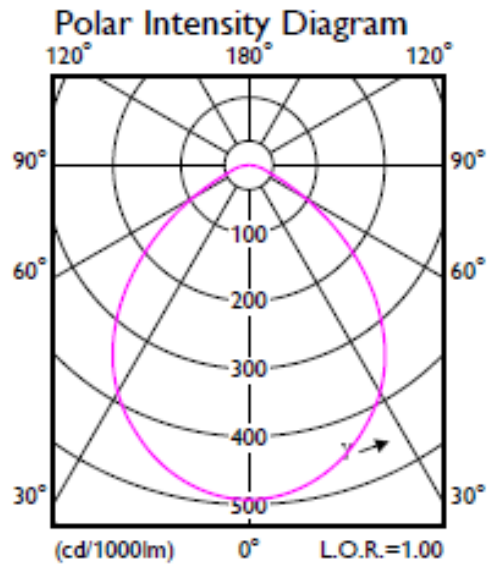
**Driver – DALI dimming**

# Technical Specifications

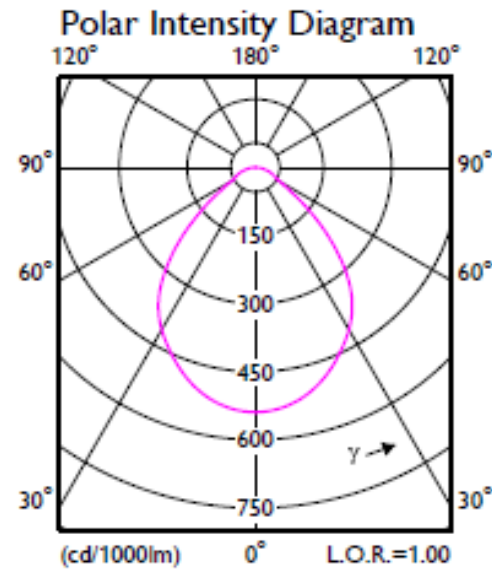


| Technical parameters  | DN284B-8                                                                                   | DN284B-10         | DN285B-8          | DN285B-10         |
|-----------------------|--------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|
| Cut out               | 200~205mm (8 “)                                                                            | 250~255mm (10 ”)  | 200~205mm (8 ”)   | 250~255mm (10 “)  |
| Input voltage         | 220V-240V/50-60Hz                                                                          | 220V-240V/50-60Hz | 220V-240V/50-60Hz | 220V-240V/50-60Hz |
| Color                 | White                                                                                      | White             | White             | White             |
| Power                 | 34W                                                                                        | 34W               | 41W               | 41W               |
| PF                    | 0.95                                                                                       | 0.95              | 0.95              | 0.95              |
| CCT                   | 3000K ; 4000K                                                                              | 3000K ; 4000K     | 3000K ; 4000K     | 3000K ; 4000K     |
| System Lumen          | 3650lm @ 4000K                                                                             | 3650lm@ 4000K     | 4500lm @ 4000K    | 4500lm @ 4000K    |
| System Efficacy       | 107lm/W @ 4000K                                                                            | 107lm/W @ 4000K   | 110lm/W @ 4000K   | 110lm/W @ 4000K   |
| CRI                   | >80                                                                                        | >80               | >80               | >80               |
| SDCM                  | ≤4                                                                                         | ≤4                | ≤4                | ≤4                |
| Beam angle            | 100°                                                                                       | 100°              | 90°               | 90°               |
| Electrical class      | Class I                                                                                    | Class I           | Class I           | Class I           |
| Operating temperature | -20°C < ta < 40°C                                                                          |                   |                   |                   |
| Lifetime              | 50,000 hours (L70 @Ta=25°C)                                                                |                   |                   |                   |
| Mounting type         | Recessed; fixed by spring tension clips                                                    |                   |                   |                   |
| IP rating             | IP20                                                                                       |                   |                   |                   |
| Material              | Optics: MCPET high reflectance film, , PMMA diffuser with high haze and light transmission |                   |                   |                   |
|                       | Reflector: High purity aluminum, high reflectance coating                                  |                   |                   |                   |
|                       | Driver box: PC plastics                                                                    |                   |                   |                   |
|                       | Clips: Piano wire spring clip, PC plastic clip                                             |                   |                   |                   |

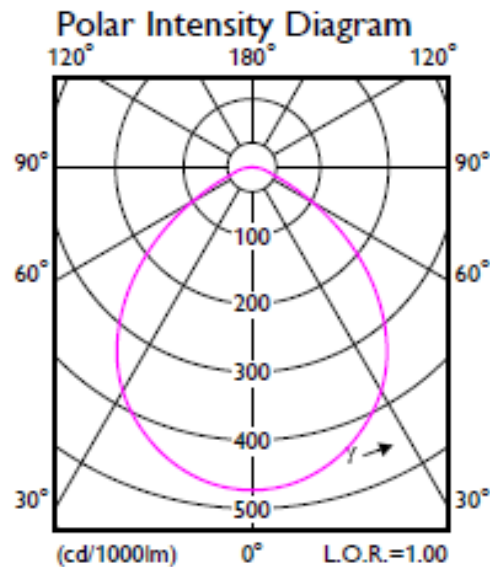
# Photometry



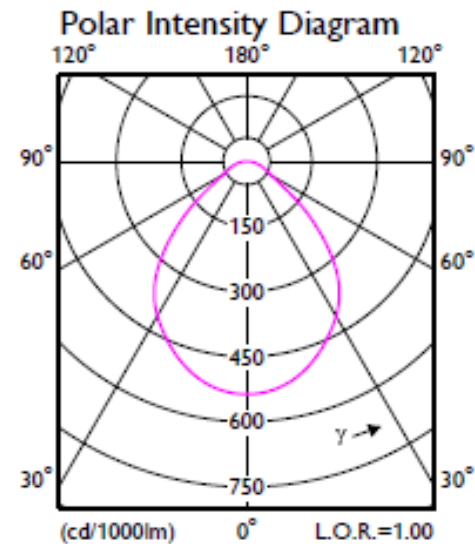
DN284B-8 4000K



DN284B-10 4000K



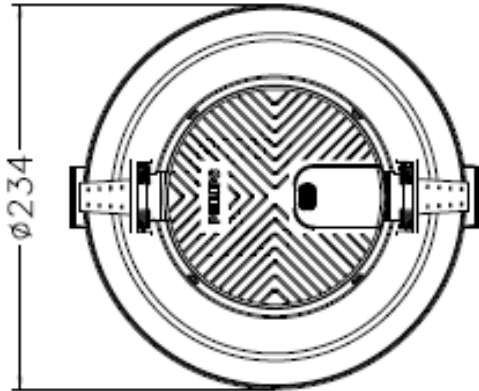
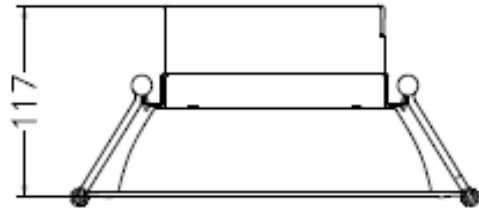
DN285B-8 4000K



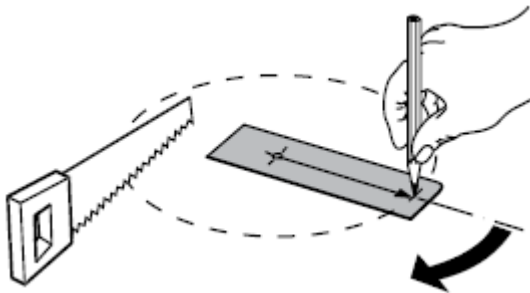
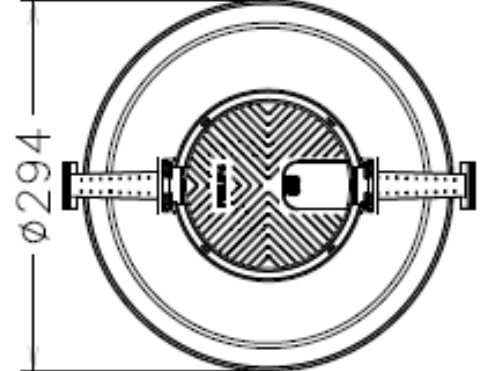
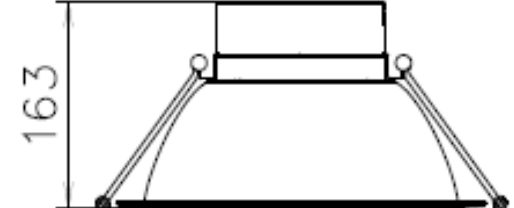
DN285B-10 4000K

# Integrated compact Design - Reducing Installation Cost

DN284B-8  
DN285B-8



DN284B-10  
DN285B-10



| Type       | Cut-out    | Weight |
|------------|------------|--------|
| DN 284B-8  | Ø200~205mm | 0.5 kg |
| DN 284B-10 | Ø250~255mm | 0.7 kg |
| DN 285B-8  | Ø200~205mm | 0.5 kg |
| DN 285B-10 | Ø250~255mm | 0.7 kg |

# GreenSpace Power Gen1 Vs Gen2

|                          | Gen1 (DN284/285)          | Gen2 (DN284/285)                                      |
|--------------------------|---------------------------|-------------------------------------------------------|
| <b>Lumen output</b>      | 3500lm,4500lm             | 3500lm,4500lm                                         |
| <b>Cut-out dimension</b> | 8" , 10"                  | 8" , 10"                                              |
| <b>CCT</b>               | 3000K, 4000K              | 3000K, 4000K <b>(3500K &amp; 6500K as ETO option)</b> |
| <b>System efficacy</b>   | 95~100 lm/W               | <b>103~110 lm/W</b>                                   |
| <b>LED chips</b>         | LGIT 6030                 | <b>Lumileds LUXEON 3030 2D</b>                        |
| <b>Lifetime</b>          | 50,000hours L70 @Ta 25° C | 50,000hours L70 @Ta 25° C                             |
| <b>Form factor</b>       | Picture as below          | Exactly the same as Gen1                              |
| <b>Price index</b>       | 1.0                       | <b>0.75</b>                                           |



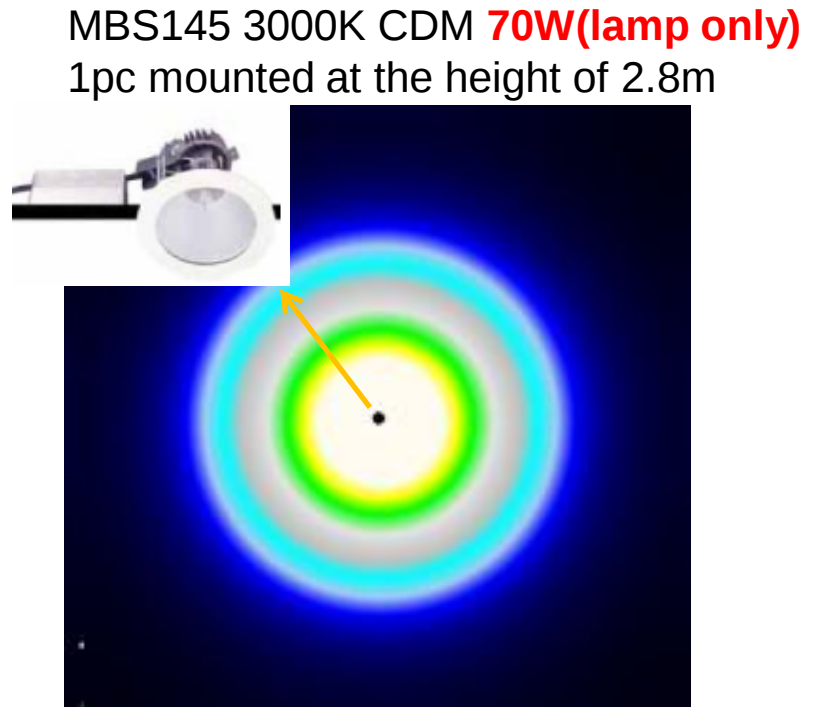
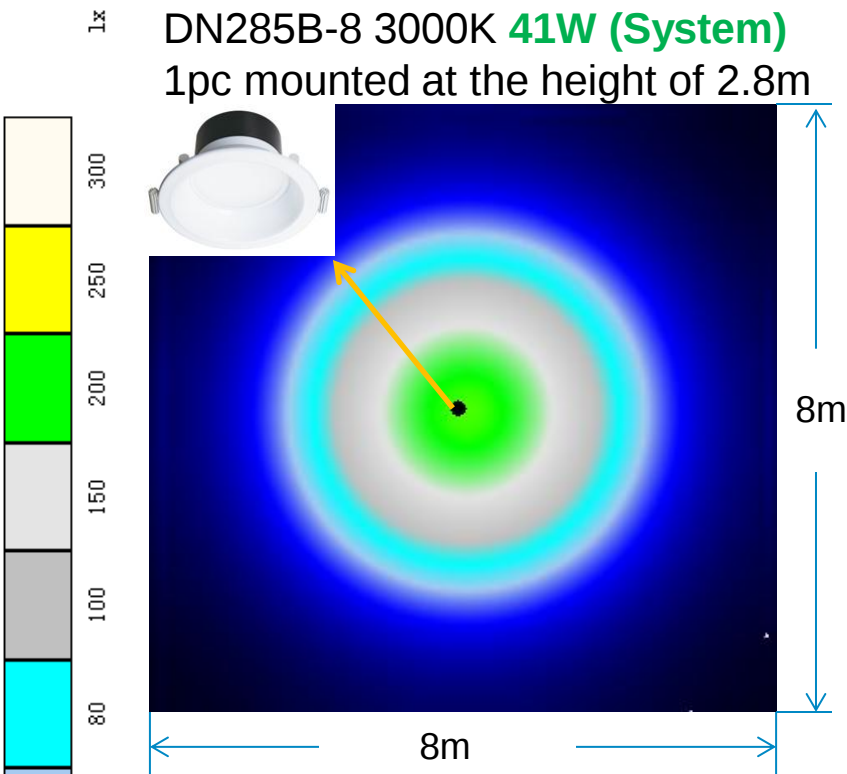
Cut-out 8"



Cut-out 10"

GreenSpace Power Gen1 was phased out in Q3 2015 due to the supply discontinuity of LED chips ( LGIT 6030), as the successor, Gen2 keeps the same form factor as Gen1 with performance upgrade and more cost-effective architecture

# GreenSpace Power Gen2 Vs CDM downlight



Compared with MBS145 CDM-T70:

- GreenSpace Power Gen2 delivers very similar lx (average) in horizontal with approx. 50% energy saving: 41W vs 80+W (lamp & ballast)
- GreenSpace Power Gen2 delivers lower central intensity but more uniform light covering bigger area, which is more suitable for general lighting

# Ordering information

| 12NC         | Product description          | Lumen output | CCT   | Cut-out Size     |
|--------------|------------------------------|--------------|-------|------------------|
| 911401841499 | DN284B-8 1xDLED-3000 PSU WH  | 3500lm       | 3000K | 200~205mm (8 “)  |
| 911401842099 | DN284B-8 1xDLED-4000 PSU WH  | 3650lm       | 4000K | 200~205mm (8 “)  |
| 911401841899 | DN284B-10 1xDLED-3000 PSU WH | 3500lm       | 3000K | 250~255mm (10 “) |
| 911401841999 | DN284B-10 1xDLED-4000 PSU WH | 3650lm       | 4000K | 250~255mm (10 “) |
| 911401841799 | DN285B-8 1xDLED-3000 PSU WH  | 4300lm       | 3000K | 200~205mm (8 “)  |
| 911401841699 | DN285B-8 1xDLED-4000 PSU WH  | 4500lm       | 4000K | 200~205mm (8 “)  |
| 911401841399 | DN285B-10 1xDLED-3000 PSU WH | 4300lm       | 3000K | 250~255mm (10 “) |
| 911401841599 | DN285B-10 1xDLED-4000 PSU WH | 4500lm       | 4000K | 250~255mm (10 “) |

**More options available on request**



