



GreenSpace

A high-efficiency sustainable LED solution



PHILIPS

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GreenSpace – A high-efficiency sustainable LED solution

Customers want to strike the ideal balance between their initial investment and the cost of the installation over its lifetime. GreenSpace is a **cost-efficient and sustainable downlight** that can be used to replace conventional CFL downlights in general lighting applications. It features the latest LED technology, which enables extremely **low power consumption** while at the same time delivering **consistent light output, stable color performance and high color rendering**. The product's long lifetime makes it a true 'fit and forget' solution.

Whirlpool offices

The Netherlands

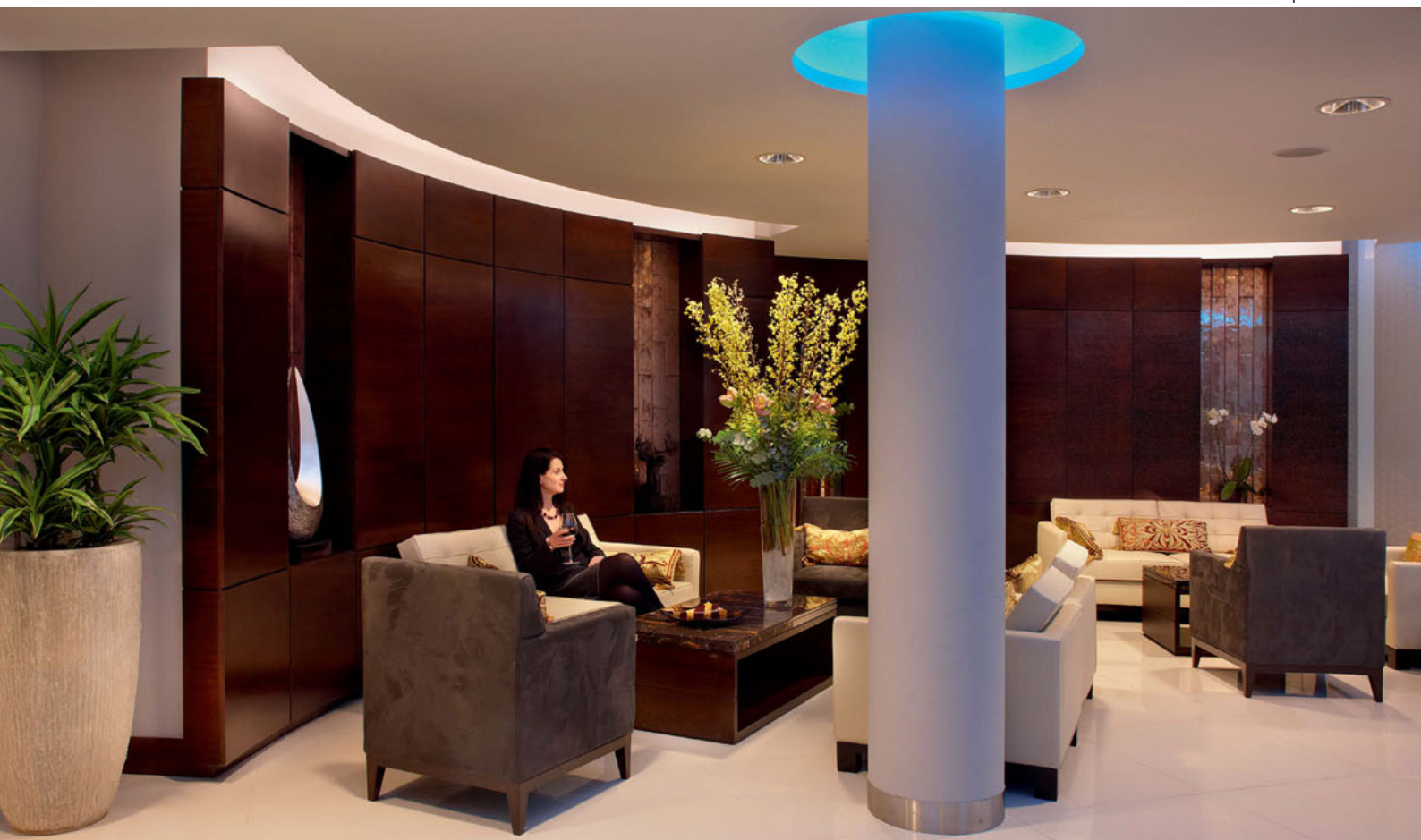
Key benefits / Unique selling points

- Ideal for making the switch from CFL to LED
- 70% energy saving: total cost of ownership recovered less than two years (compared with CFL)
- Five times longer life
- Energy-efficient, durable LED technology
- High system efficacy: up to 80 lm/W
- Office compliant with stable color performance and high color rendering (CRI>80)

IOB offices

Hellevoetsluis,
The Netherlands



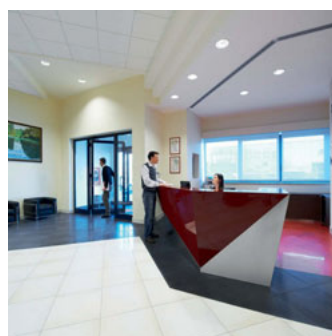
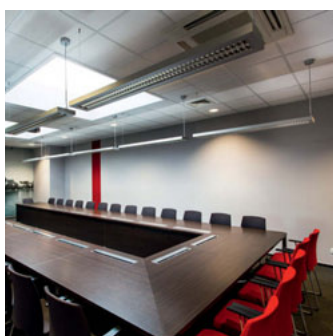
**Rafayel Hotel**

London, the United Kingdom

Application areas

General lighting for:

- Retail
- Corridors, halls
- Hotels and hospitals
- Offices



Range overview

GreenSpace



Standard version



IP44 version

Emergency lighting (3h single battery) and IP44 protection glass (front face only) are available as part of the GreenSpace range. DALI dimmable versions are also available in this range.

Optics



UGR22 version



UGR19 louvre

The reflector is glossy. It is made of plastic with an aluminum coating.

GreenSpace is also available in UGR19, thanks to a louvre to limit glare.

Specifications

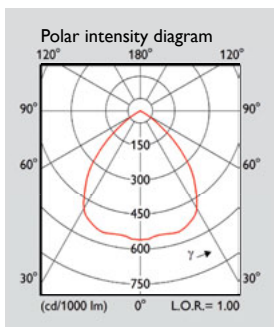
	GreenSpace2 Mini	GreenSpace2 Compact
Light source	Mid power LED / DLS	Mid power LED / DLS
Lumen output (system level)	UGR22: 1,200 lm	UGR22: 2,200 lm
	UGR19: 1,150 lm	UGR19: 2,100 lm
CRI (min.)	>80	>80
Light color	Warm white: 3,000K (830)	Warm white: 3,000K (830)
	Neutral white: 4,000K (840)	Neutral white: 4,000K (840)
Power consumption	13.8 W	24 W
System efficacy	UGR22: 87 lm/W	UGR22: 91.5 lm/W
	UGR19: 83.5 lm/W	UGR19: 87.5 lm/W
Range	IP20 / IP44 / Emergency lighting (EL3) / Opal cover	IP20 / IP44 / Emergency Lighting (EL3) / Opal cover
Voltage	220V-240V / 50, 60Hz	220V-240V / 50, 60Hz
Driver	Static (PSE-E) or DALI Dimmable (PSED-E)	Static (PSE-E) or DALI Dimmable (PSED-E)
Optic	UGR19-UGR22, High gloss optic	UGR19-UGR22, High gloss optic
Cut out	Ø 150 mm	Ø 200 mm
Material	Aluminum housing / metalized plastic reflector	Aluminum housing / metalized plastic reflector
Color of rim	White RAL 9010 (WH)	White RAL 9010 (WH)
Installation	Fixation by means of spring fasteners	Fixation by means of spring fasteners
Lifetime	L90B50 25,000 hrs	L90B50 25,000 hrs
	L80B50 50,000 hrs	L80B50 50,000 hrs
Colour consistency	5 SDCM	5 SDCM

Photometrical data

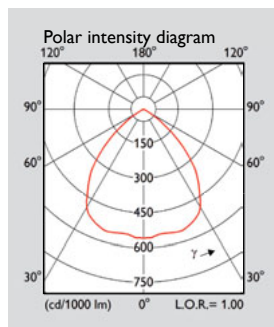
Compact

Mini

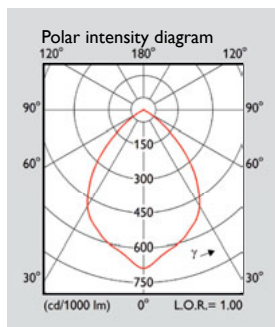
URG22 versions



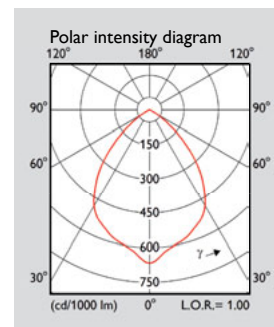
Compact 3,000 K



Compact 4,000 K

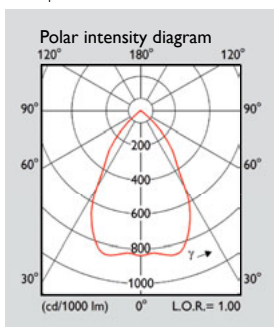


Mini 3,000 K

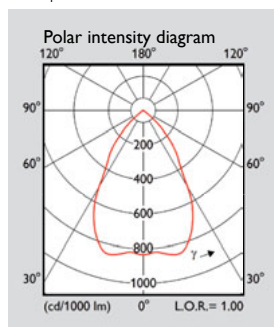


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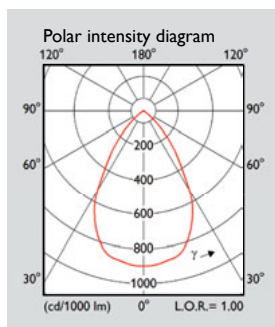
UGR19 versions



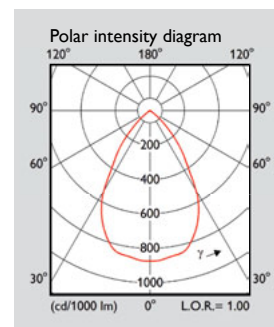
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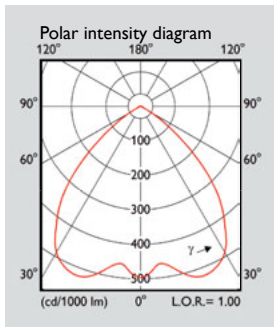


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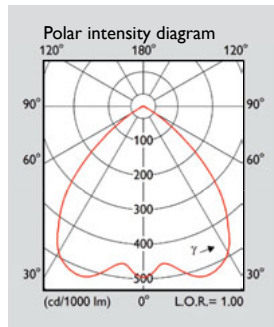


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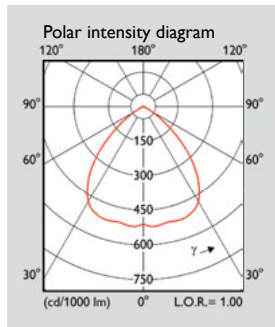
IP44 versions



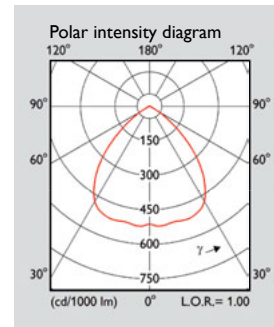
Compact 3,000 K



Compact 4,000 K

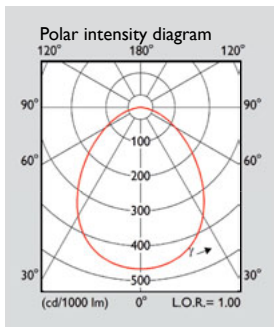


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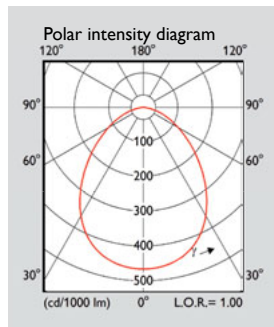


Mini 4,000 K

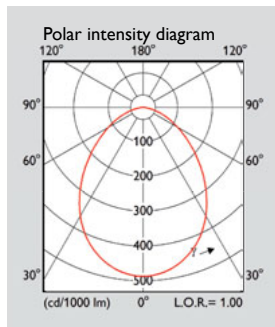
IP44 PGO versions



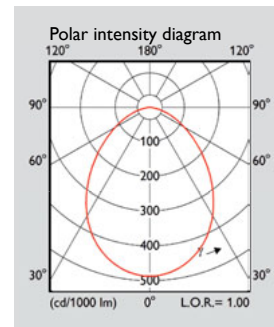
Compact 3,000 K



Compact 4,000 K



Mini 3,000 K



Mini 4,000 K

NB: The cover used on IP44 versions might reduce the lumen output of the luminaire slightly:

Compact

IP44: 2,100 lm

IP44 PGO: 1,950 lm

Mini

IP44: 1,200 lm

IP44 PGO: 1,050 lm

High efficacy lighting

Thanks to its high system efficacy (up to 91.5 lm/W) and a lifetime of 50,000 hours (L80B50), the GreenSpace range provides significant reductions on energy consumption and cost (maintenance, replacement...).

Here are some examples to illustrate.

Planning Example: Corridor

Lighting a hallway with dimensions 10.80 x 2.40 x 2.80 m (L x W x H)

	Conventional Fugato Compact FBS261 2 x PL-C/4P 26W/840 HFP	LED GreenSpace Compact DN450B DLM2000/840
Number of lamps	6	6
Average illuminance (Em)	230	287
Uniformity (u0)	0.36	0.66
System power per lamp (W)	54	24
Total installed power (W)	324	144
Power consumption (W/m ²)	12.5	5.56

Corridor

- 56% energy savings through reduced power input with this configuration
- An additional 20% energy savings possible, with additional use of occupancy sensors (OccuSwitch)
- Increased comfort and security through instant, flicker free light output

Total cost of ownership calculation

		Fugato Compact FBS261 2 x PL-C/4P 26W/ 840 HFP + RL	GreenSpace Compact DN470B LED20S/840
Number of luminaires	pieces	6	6
System Energy	Watt	54	24
Hours used per year	hrs	3,000	3,000
Energy cost Euro/kWh	Euro	0.12	0.12
Lamp Life	hrs	10,000	50,000
Average price end user	Euro	16.00	0
Lamp replacement costs	Euro	7.50	0
Enduser costs			
a. Energy cost per year	Euro	116.64	51.84
b. lamp cost per year	Euro	28.80	0
c. Lamp replacement costs per year	Euro	13.50	0
Total cost per year	Euro	158.94	51.84
Saving per year	Euro		107.10
Saving over total lifetime GreenSpace	Euro		1,785.00
Enduser initial cost			
Cost of luminaire	Euro	89.00	108.00
Total initial cost	Euro	534.00	648.00
Financial Key Indicators			
Extra investment	Euro		114.00
Payback	Year		1.06
Environmental indicators			
Energy use per year	kWh	972.00	432.00
Reduced energy use	%		-56%
CO ₂ emission	kg/year	398.52	177.12

With a payback time of less than 2 years, GreenSpace is definitely the right investment compare to CFL luminaires if you consider the total cost of ownership.

Standard ordering codes

Designation	12NC	EOC
GreenSpace Mini UGR22		
DN460B LED11S/830 PSE-E WH	910500454944	871869624315200
DN460B LED11S/840 PSE-E WH	910500454945	871869624316900
DN460B LED11S/830 PSED-E WH	910500454950	871869624321300
DN460B LED11S/840 PSED-E WH	910500454951	871869624322000
<i>with emergency lighting</i>		
DN460B LED11S/830 PSE-E EL3 WH	910500454946	871869624317600
DN460B LED11S/840 PSE-E EL3 WH	910500454947	871869624318300
DN460B LED11S/830 PSED-E EL3 WH	910500454952	871869624323700
DN460B LED11S/840 PSED-E EL3 WH	910500454953	871869624324400
<i>with protection glass (standard or opal)</i>		
DN460B LED11S/830 PSE-E IP44 WH	910500454948	871869624319000
DN460B LED11S/840 PSE-E IP44 WH	910500454949	871869624320600
DN460B LED11S/830 PSED-E IP44 WH	910500454954	871869624325100
DN460B LED11S/840 PSED-E IP44 WH	910500454955	871869624326800
DN460B LED11S/830 PSE-E PGO IP44 WH	910500456219	871869624631300
DN460B LED11S/840 PSE-E PGO IP44 WH	910500456220	871869624632000
DN460B LED11S/830 PSED-E PGO IP44 WH	910500456225	871869624637500
DN460B LED11S/840 PSED-E PGO IP44 WH	910500456226	871869624638200
GreenSpace Mini UGR19		
DN461B LED11S/830 PSE-E WH	910500454956	871869624327500
DN461B LED11S/840 PSE-E WH	910500454957	871869624328200
DN461B LED11S/830 PSED-E WH	910500454960	871869624331200
DN461B LED11S/840 PSED-E WH	910500454961	871869624332900
<i>with emergency lighting</i>		
DN461B LED11S/830 PSE-E EL3 WH	910500454958	871869624329900
DN461B LED11S/840 PSE-E EL3 WH	910500454959	871869624330500
DN461B LED11S/830 PSED-E EL3 WH	910500454962	871869624333600
DN461B LED11S/840 PSED-E EL3 WH	910500454963	871869624334300
GreenSpace Compact UGR22		
DN470B LED20S/830 PSE-E WH	910500454964	871869624335000
DN470B LED20S/840 PSE-E WH	910500454965	871869624336700
DN470B LED20S/830 PSED-E WH	910500454970	871869624341100
DN470B LED20S/840 PSED-E WH	910500454971	871869624342800
<i>with emergency lighting</i>		
DN470B LED20S/830 PSE-E EL3 WH	910500454966	871869624337400
DN470B LED20S/840 PSE-E EL3 WH	910500454967	871869624338100
DN470B LED20S/830 PSED-E EL3 WH	910500454972	871869624343500
DN470B LED20S/840 PSED-E EL3 WH	910500454973	871869624344200
<i>with protection glass (standard or opal)</i>		
DN470B LED20S/830 PSE-E IP44 WH	910500454968	871869624339800
DN470B LED20S/840 PSE-E IP44 WH	910500454969	871869624340400
DN470B LED20S/830 PSED-E IP44 WH	910500454974	871869624345900
DN470B LED20S/840 PSED-E IP44 WH	910500454975	871869624346600
DN470B LED20S/830 PSE-E PGO IP44 WH	910500456263	871869624675700
DN470B LED20S/840 PSE-E PGO IP44 WH	910500456264	871869624676400
DN470B LED20S/830 PSED-E PGO IP44 WH	910500456269	871869624681800
DN470B LED20S/840 PSED-E PGO IP44 WH	910500456270	871869624682500

Designation	12NC	EOC
GreenSpace Compact UGR19		
DN471B LED20S/830 PSE-E WH	910500454976	871869624347300
DN471B LED20S/840 PSE-E WH	910500454977	871869624348000
DN471B LED20S/830 PSED-E WH	910500454980	871869624351000
DN471B LED20S/840 PSED-E WH	910500454981	871869624352700
<i>with emergency lighting</i>		
DN471B LED20S/830 PSE-E EL3 WH	910500454978	871869624349700
DN471B LED20S/840 PSE-E EL3 WH	910500454979	871869624350300
DN471B LED20S/830 PSED-E EL3 WH	910500454982	871869624353400
DN471B LED20S/840 PSED-E EL3 WH	910500454983	871869624354100

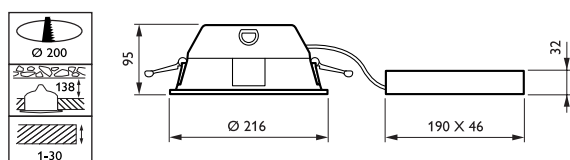
Product designation

DN460B	LED20S	830	PSE-E	EL3	IP44	WH
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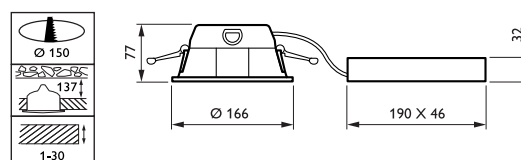
Designation	Product features	Variations
DN460B	Type	DN460B/DN470B = UGR22 • DN461B/DN471B = UGR19
LED20S	Light source	LED11S = 1,200 lm (DN460B) / 1,150 lm (DN461B) LED20S = 2,200 lm (DN470B) / 2,100 lm (DN471B)
830	Light color	8 = CRI>80 • 30 = 3,000 K • 40 = 4,000 K
PSE-E	Transformer	PSE-E = External static driver • PSED-E = External DALI dimmable driver
EL3	Emergency lighting	single battery, 3 hours duration
IP44	IP rating	IP44 = transparent glass • IP44 PGO = opal glass (both front face only)
WH	Rim color	White

Dimensions

Compact

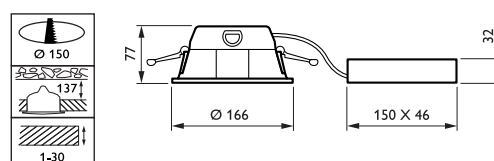
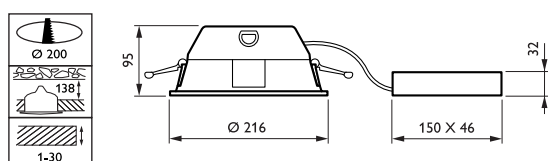


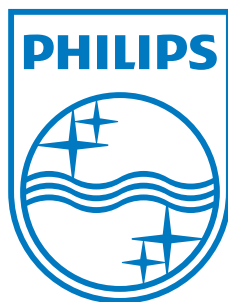
Mini



Static
version

Dali dimmable
version





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