PHILIPS

Lighting



Miniaturized downlight with leading optical performance and great diversity

LuxSpace G4

LuxSpace Gen4 is the a new LED downlight range combining light comfort and leading performance with luxury looking

Benefits

- Visual comfort
- Multiple options for various applications
- Smart lighting

Features

- Miniaturized form factor
- High optical efficiency
- Great product diversity
- Tunable white

Application

- Office
- shopping mall
- hotel
- retail

Specifications

LuxSpace G4

Mounting type	Recessed
Operating Temperature range	-20 to +40 ºC
Light Source	LED module
Mains Voltage	220-240V AC / 50-60Hz
Dimming	PSU: non-dimmable
	PSD: Dimmable via Dali protocol
	WIA: Wireless control
	POE: Power over Ethernet
Control system input	DALI / POE /WIA
Material	Housing: die-cast aluminum
Main color of the luminaire	Black & White
Lumen maintenance at median useful life 50.000h	L70
Flicker / Pst / SVM	<4%
Luminous flux	740lm, 1000lm, 1500lm, 2000lm, 2600lm, 3400lm, 4300lm @840
Power consumption	6.6-39.7W

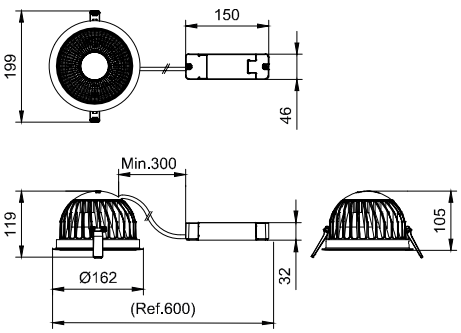
Luminaire efficacy	97-127 lm/W @840
Correlated color temperature - CCT	3000K, 4000K, Tunable White
Color Rendering index - CRI	80, 90
Beam angle	32°-36°
	56°-63°
Reflector material	Plastic, Aluminum coated
Optic	AL coating
	Office compliant UGR<19 (OC)
Mechanical impact protection	IK02, IK03
Ingress protection	IP20 / IP54 (front side)
Light source replaceable	No
Driver replaceable	Yes
Overall diameter	D100,D125,D150,D200
UGR	19
Installation	recessed
	Fixation by means of spring fasteners

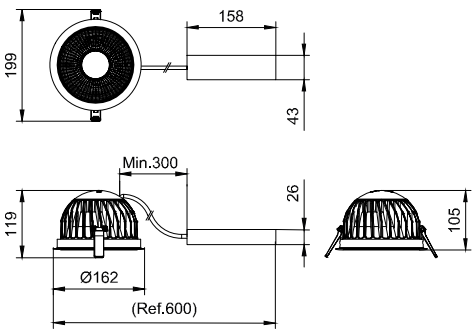
Versions



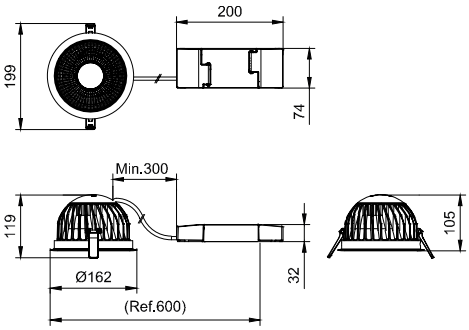
Recessed downlight DN588B D100 D125

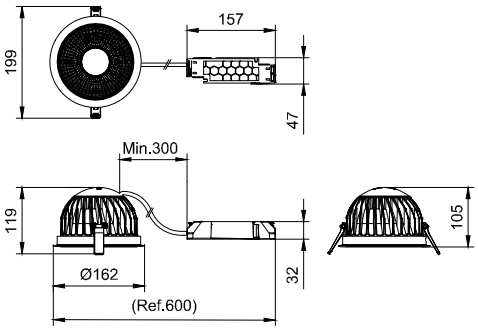
Dimensional drawing

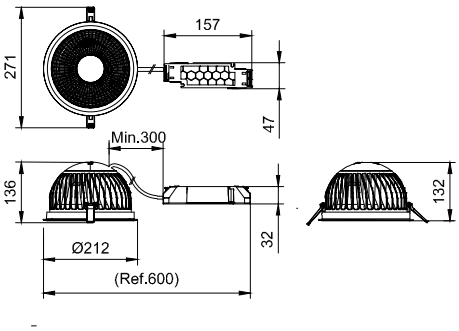


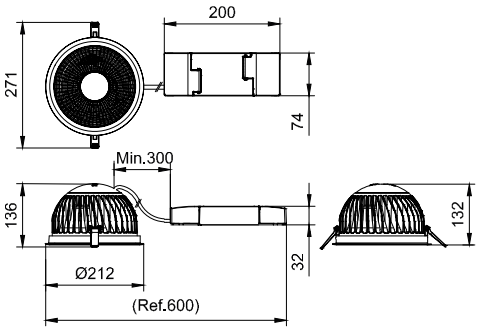


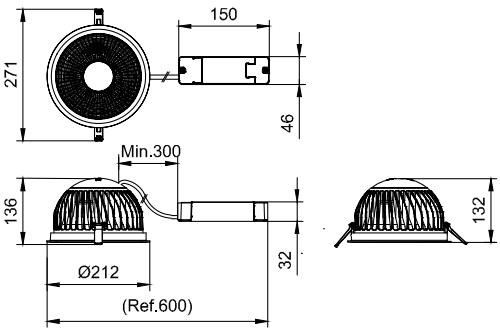
Dimensional drawing

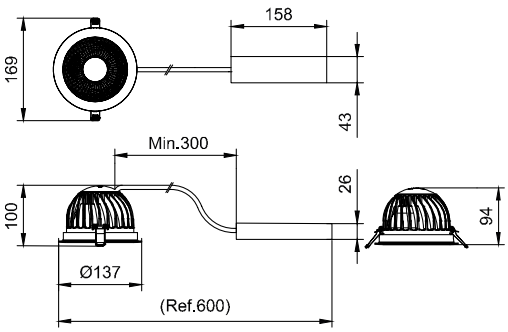


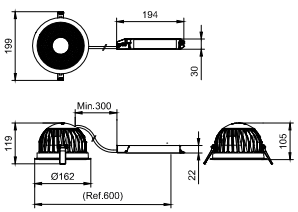












LuxSpace G4

General Information	
CE mark	CE mark
Driver included	Yes
ENEC mark	-
Flammability mark	For mounting on normally flammable surfaces
Glow-wire test	Temperature 650 °C, duration 30 s
Light source replaceable	No
Number of gear units	1 unit
Light Technical	
Optical cover type	Reflector
Color rendering index (CRI)	>80
Operating and Electrical	
Input Voltage	220 to 240 V
Line Frequency	50 or 60 Hz
Temperature	
Ambient temperature range	-20 to +40 °C
Mechanical and Housing	
Housing Color	White and black
Approval and Application	
Mech. impact protection code	IK03
Initial Performance (IEC Compliant)	
Initial chromaticity	-
Over Time Performance (IEC Compliant)	
Driver failure rate at 5000 h	1 %
Median useful life L80B50	50,000 hour(s)
Median useful life L90B50	21,000 hour(s)

Light Technical (1/2)

Order Code	Full Product Name	Beam angle of light source	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux
911401549541	DN588B LED6/830 PSU C D125 WH WB WP GM	-	3000 K	103 lm/W	680 lm
911401549641	DN588B LED6/840 PSU C D125 WH WB WP GM	-	4000 K	108 lm/W	710 lm
911401547941	DN590B LED15/830 PSU C D150 WH WB GM	-	3000 K	176 lm/W	1,480 lm
911401548241	DN591B LED20/840 PSU C D200 WH WB GM	-	4000 K	119 lm/W	2,150 lm
911401548341	DN593B LED30/830 PSU C D200 WH WB GM	-	3000 K	102 lm/W	3,300 lm
911401548441	DN593B LED30/840 PSU C D200 WH WB GM	-	4000 K	105 lm/W	3,400 lm
911401548541	DN594B LED40/830 PSU C D200 WH WB GM	-	3000 K	103 lm/W	4,100 lm
911401548641	DN594B LED40/840 PSU C D200 WH WB GM	-	4000 K	108 lm/W	4,300 lm
911401548941	DN589B LED10/840 PSD C D150 WH WB GM	-	4000 K	125 lm/W	1,050 lm
911401549041	DN590B LED15/840 PSD C D150 WH WB GM	-	4000 K	115 lm/W	1,550 lm
911401549241	DN591B LED20/840 PSD C D200 WH WB GM	-	4000 K	111 lm/W	2,150 lm
911401549841	DN589B LED10/840 PSU C D150 WH WB WP GM	-	4000 K	119 lm/W	1,000 lm
911401550041	DN590B LED15/840 PSU C D150 WH WB WP GM	-	4000 K	109 lm/W	1,470 lm
911401550241	DN591B LED20/840 PSU C D200 WH WB WP GM	-	4000 K	113 lm/W	2,040 lm
911401550941	DN591B LED20/830 PSD C D200 WH WB WP GM	-	3000 K	107 lm/W	1,930 lm
911401551241	DN594B LED40/840 PSD C D200 WH WB WP GM	-	4000 K	103 lm/W	4,090 lm
911401542251	DN591B LED20/TWH PSD C D150 WH MB GM	32 degree(s)	6500 K	88 lm/W	2,200 lm
911401542551	DN591B LED20/TWH PSD C D150 WH WB GM	62 degree(s)	2700 K	88 lm/W	2,200 lm

Light Technical (2/2)

Order Code	Full Product Name	Optic type
911401549541	DN588B LED6/830 PSU C D125 WH WB WP GM	Facetted reflector with beam angle 60°
911401549641	DN588B LED6/840 PSU C D125 WH WB WP GM	Facetted reflector with beam angle 60°
911401547941	DN590B LED15/830 PSU C D150 WH WB GM	Facetted reflector with beam angle 60°
911401548241	DN591B LED20/840 PSU C D200 WH WB GM	Facetted reflector with beam angle 60°

Order Code	Full Product Name	Optic type
911401548341	DN593B LED30/830 PSU C D200 WH WB GM	Facetted reflector with beam angle 60°
911401548441	DN593B LED30/840 PSU C D200 WH WB GM	Facetted reflector with beam angle 60°
911401548541	DN594B LED40/830 PSU C D200 WH WB GM	Facetted reflector with beam angle 60°
911401548641	DN594B LED40/840 PSU C D200 WH WB GM	Facetted reflector with beam angle 60°

Order Code	Full Product Name	Optic type
911401548941	DN589B LED10/840 PSD C D150 WH WB GM	Facetted reflector with beam angle 60°
911401549041	DN590B LED15/840 PSD C D150 WH WB GM	Facetted reflector with beam angle 60°
911401549241	DN591B LED20/840 PSD C D200 WH WB GM	Facetted reflector with beam angle 60°
911401549841	DN589B LED10/840 PSU C D150 WH WB WP GM	Facetted reflector with beam angle 60°
911401550041	DN590B LED15/840 PSU C D150 WH WB WP GM	Facetted reflector with beam angle 60°

Order Code	Full Product Name	Optic type
911401550241	DN591B LED20/840 PSU C D200 WH WB WP GM	Facetted reflector with beam angle 60°
911401550941	DN591B LED20/830 PSD C D200 WH WB WP GM	Facetted reflector with beam angle 60°
911401551241	DN594B LED40/840 PSD C D200 WH WB WP GM	Facetted reflector with beam angle 60°
911401542251	DN591B LED20/TWH PSD C D150 WH MB GM	Facetted reflector with beam angle 36°
911401542551	DN591B LED20/TWH PSD C D150 WH WB GM	Facetted reflector with beam angle 60°

Operating and Electrical

Order Code	Full Product Name	Power Consumption
911401549541	DN588B LED6/830 PSU C D125 WH WB WP GM	6.6 W
911401549641	DN588B LED6/840 PSU C D125 WH WB WP GM	6.6 W
911401547941	DN590B LED15/830 PSU C D150 WH WB GM	8.4 W
911401548241	DN591B LED20/840 PSU C D200 WH WB GM	18 W
911401548341	DN593B LED30/830 PSU C D200 WH WB GM	32.5 W
911401548441	DN593B LED30/840 PSU C D200 WH WB GM	32.5 W
911401548541	DN594B LED40/830 PSU C D200 WH WB GM	39.7 W
911401548641	DN594B LED40/840 PSU C D200 WH WB GM	39.7 W
911401548941	DN589B LED10/840 PSD C D150 WH WB GM	8.4 W

Order Code	Full Product Name	Power Consumption
911401549041	DN590B LED15/840 PSD C D150 WH WB GM	13.5 W
911401549241	DN591B LED20/840 PSD C D200 WH WB GM	19.3 W
911401549841	DN589B LED10/840 PSU C D150 WH WB WP GM	8.4 W
911401550041	DN590B LED15/840 PSU C D150 WH WB WP GM	13.5 W
911401550241	DN591B LED20/840 PSU C D200 WH WB WP GM	18 W
911401550941	DN591B LED20/830 PSD C D200 WH WB WP GM	18 W
911401551241	DN594B LED40/840 PSD C D200 WH WB WP GM	39 W
911401542251	DN591B LED20/TWH PSD C D150 WH MB GM	25 W
911401542551	DN591B LED20/TWH PSD C D150 WH WB GM	25 W

Controls and Dimming

Order Code	Full Product Name	Dimmable
911401549541	DN588B LED6/830 PSU C D125 WH WB WP GM	No
911401549641	DN588B LED6/840 PSU C D125 WH WB WP GM	No
911401547941	DN590B LED15/830 PSU C D150 WH WB GM	No
911401548241	DN591B LED20/840 PSU C D200 WH WB GM	No
911401548341	DN593B LED30/830 PSU C D200 WH WB GM	No
911401548441	DN593B LED30/840 PSU C D200 WH WB GM	No
911401548541	DN594B LED40/830 PSU C D200 WH WB GM	No
911401548641	DN594B LED40/840 PSU C D200 WH WB GM	No
911401548941	DN589B LED10/840 PSD C D150 WH WB GM	Yes

Order Code	Full Product Name	Dimmable
911401549041	DN590B LED15/840 PSD C D150 WH WB GM	Yes
911401549241	DN591B LED20/840 PSD C D200 WH WB GM	Yes
911401549841	DN589B LED10/840 PSU C D150 WH WB WP GM	No
911401550041	DN590B LED15/840 PSU C D150 WH WB WP GM	No
911401550241	DN591B LED20/840 PSU C D200 WH WB WP GM	No
911401550941	DN591B LED20/830 PSD C D200 WH WB WP GM	Yes
911401551241	DN594B LED40/840 PSD C D200 WH WB WP GM	Yes
911401542251	DN591B LED20/TWH PSD C D150 WH MB GM	Yes
911401542551	DN591B LED20/TWH PSD C D150 WH WB GM	Yes

Approval and Application

Order Code	Full Product Name	Protection class IEC	Ingress protection code
911401549541	DN588B LED6/830 PSU C D125 WH WB WP GM	Safety class II	IP20/54
911401549641	DN588B LED6/840 PSU C D125 WH WB WP GM	Safety class II	IP20/54
911401547941	DN590B LED15/830 PSU C D150 WH WB GM	Safety class II	IP20
911401548241	DN591B LED20/840 PSU C D200 WH WB GM	Safety class II	IP20

Order Code	Full Product Name	Protection class IEC	Ingress protection code
911401548341	DN593B LED30/830 PSU C D200 WH WB GM	Safety class II	IP20
911401548441	DN593B LED30/840 PSU C D200 WH WB GM	Safety class II	IP20
911401548541	DN594B LED40/830 PSU C D200 WH WB GM	Safety class II	IP20
911401548641	DN594B LED40/840 PSU C D200 WH WB GM	Safety class II	IP20

LuxSpace G4

Order Code	Full Product Name	Protection class IEC	Ingress protection code
911401548941	DN589B LED10/840 PSD C D150 WH WB GM	Safety class II	IP20
911401549041	DN590B LED15/840 PSD C D150 WH WB GM	Safety class I	IP20
911401549241	DN591B LED20/840 PSD C D200 WH WB GM	Safety class I	IP20
911401549841	DN589B LED10/840 PSU C D150 WH WB WP GM	Safety class II	IP20/54
911401550041	DN590B LED15/840 PSU C D150 WH WB WP GM	Safety class II	IP20/54

Order Code	Full Product Name	Protection class IEC	Ingress protection code
911401550241	DN591B LED20/840 PSU C D200 WH WB WP GM	Safety class II	IP20/54
911401550941	DN591B LED20/830 PSD C D200 WH WB WP GM	Safety class I	IP20/54
911401551241	DN594B LED40/840 PSD C D200 WH WB WP GM	Safety class I	IP20/54
911401542251	DN591B LED20/TWH PSD C D150 WH MB GM	Safety class II	IP20
911401542551	DN591B LED20/TWH PSD C D150 WH WB GM	Safety class II	IP20

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Luminous flux tolerance
911401549541	DN588B LED6/830 PSU C D125 WH WB WP GM	+/-10%
911401549641	DN588B LED6/840 PSU C D125 WH WB WP GM	+/-10%
911401547941	DN590B LED15/830 PSU C D150 WH WB GM	+/-10%
911401548241	DN591B LED20/840 PSU C D200 WH WB GM	+/-10%
911401548341	DN593B LED30/830 PSU C D200 WH WB GM	+/-10%
911401548441	DN593B LED30/840 PSU C D200 WH WB GM	+/-10%
911401548541	DN594B LED40/830 PSU C D200 WH WB GM	+/-10%
911401548641	DN594B LED40/840 PSU C D200 WH WB GM	+/-10%
911401548941	DN589B LED10/840 PSD C D150 WH WB GM	+/-10%

Order Code	Full Product Name	Luminous flux tolerance
911401549041	DN590B LED15/840 PSD C D150 WH WB GM	+/-10%
911401549241	DN591B LED20/840 PSD C D200 WH WB GM	+/-10%
911401549841	DN589B LED10/840 PSU C D150 WH WB WP GM	+/-10%
911401550041	DN590B LED15/840 PSU C D150 WH WB WP GM	+/-10%
911401550241	DN591B LED20/840 PSU C D200 WH WB WP GM	+/-10%
911401550941	DN591B LED20/830 PSD C D200 WH WB WP GM	+/-10%
911401551241	DN594B LED40/840 PSD C D200 WH WB WP GM	+/-10%
911401542251	DN591B LED20/TWH PSD C D150 WH MB GM	+/-15%
911401542551	DN591B LED20/TWH PSD C D150 WH WB GM	+/-15%

Application Conditions

Order Code	Full Product Name	Maximum dim level
911401549541	DN588B LED6/830 PSU C D125 WH WB WP GM	Not applicable
911401549641	DN588B LED6/840 PSU C D125 WH WB WP GM	Not applicable
911401547941	DN590B LED15/830 PSU C D150 WH WB GM	Not applicable
911401548241	DN591B LED20/840 PSU C D200 WH WB GM	Not applicable
911401548341	DN593B LED30/830 PSU C D200 WH WB GM	Not applicable
911401548441	DN593B LED30/840 PSU C D200 WH WB GM	Not applicable
911401548541	DN594B LED40/830 PSU C D200 WH WB GM	Not applicable
911401548641	DN594B LED40/840 PSU C D200 WH WB GM	Not applicable
911401548941	DN589B LED10/840 PSD C D150 WH WB GM	1%

Order Code	Full Product Name	Maximum dim level
911401549041	DN590B LED15/840 PSD C D150 WH WB GM	1%
911401549241	DN591B LED20/840 PSD C D200 WH WB GM	1%
911401549841	DN589B LED10/840 PSU C D150 WH WB WP GM	Not applicable
911401550041	DN590B LED15/840 PSU C D150 WH WB WP GM	Not applicable
911401550241	DN591B LED20/840 PSU C D200 WH WB WP GM	Not applicable
911401550941	DN591B LED20/830 PSD C D200 WH WB WP GM	1%
911401551241	DN594B LED40/840 PSD C D200 WH WB WP GM	1%
911401542251	DN591B LED20/TWH PSD C D150 WH MB GM	1%

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