



# GentleSpace – High-quality, efficient lighting engineered for excellence in tough environments

## GentleSpace gen4

GentleSpace gen4 is the ultimate lighting solution for industrial settings and indoor sports facilities. It exceeds expectations by ensuring superior light quality, improving employee safety and productivity, and complying with all the relevant safety regulations. Engineered for longevity, GentleSpace gen4 reduces the frequency, hassle, and costs of maintenance, making it ideal for high-ceiling installations. Its energy-efficient design cuts operational expenses, offering maximum application efficiency and an attractive total cost of ownership (TCO). This product range offers a wide variety of optics, beam angles (from very narrow to wide), lumen packages, and connectivity options. With GentleSpace gen4 you can easily create a tailor-made lighting solution for every high-ceiling application. Its modern, flat design makes it easier to install, clean, and maintain. The single optical window design provides superior visual performance. A variety of mounting possibilities and connectors, like the pre-mounted IP65 connector, enable quick and easy installation. The robust design allows it to withstand harsh conditions in all sorts of environments. You can choose between various cover materials, including specialized variants for extreme temperatures (XT), hazardous areas (ATEX 2/22), and sports applications. Additionally, GentleSpace gen4 offers advanced connectivity options. It's ready to use in connected lighting systems like Interact. Reliable, high-efficiency lighting with smart connectivity – a bright choice for a better future. Embrace sustainability with GentleSpace gen4, the highbay lighting solution that complies with the principles of the circular economy by prioritising durability and recyclability. The luminaire is serviceable, with all the information available at your fingertips via the Signify Service tag app. Whether you are looking

## GentleSpace gen4

for a reliable "fit and forget" solution or one that can be adapted and controlled after installation, GentleSpace gen4 is the right choice for you.

### Benefits

- Robust design, created to withstand harsh conditions in all sorts of environments
- Compact product architecture, resistant to high impact (IK08), water, and dust (IP65)
- Excellent light uniformity and low glare for optimised working conditions with improved safety and greater visual comfort
- Attractive total cost of ownership thanks to its high luminous efficacy (up to 189 lm/W), long lifetime (100,000 hours @L85), and optimized lighting plan that requires fewer luminaires per application
- Easy installation. Single-piece, lighter architecture (approximately 20% lighter than the previous generation) with multiple mounting options for flexible installation in various environments and conditions
- Interact Ready connectivity for smart lighting. Connect to the cloud and discover additional ways to save energy through optimised efficiency, motion sensing and daylight harvesting, as well as improved lighting management, productivity and safety
- Engineered with sustainability in mind. Meets lighting for circularity criteria to help you achieve your sustainability goals

### Features

- Exceptional performance with UltraEfficient (UE, 189 lm/W) and High-Efficiency (HE, 183 lm/W) versions
- Long service life of 100,000 hours at L85
- High water (IP65) and impact protection (IK08)
- Wide variety of optics (wide beam/medium beam/narrow beam/extra narrow beam/high-rack/asymmetrical)
- Special options for a broad range of applications: Extreme version (XT) up to 70°C, Safety Class I or II, swimming pool protected version (SWP), marine protection (MSP), VDE certified ball-proof (BP) option, ATEX 2/22 certified version. Tested against a broad list of chemical substances that may be present in industrial settings
- Detachable mounting system for easy installation, including various mounting options and connectors (IP65 pre-mounted connector, or fly-wire cable)
- Robust, die-cast aluminum housing with efficient thermal management and flat front and rear design for easy installation, cleaning, and maintenance
- Single LED module design for superior light quality
- Access to the Signify Service tag app with service and maintenance information

### Application

- Manufacturing sites (from food and beverage to heavy industry)
- Warehouses and logistics centres
- Indoor sports facilities, swimming pools, and exhibition halls

# GentleSpace gen4

## Versions

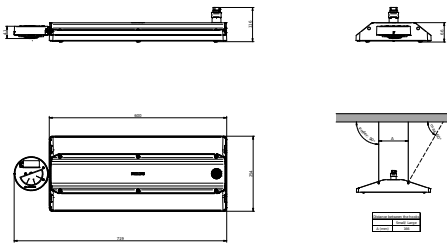


GentleSpace gen4-large, suspension

GentleSpace gen4-large, bracket

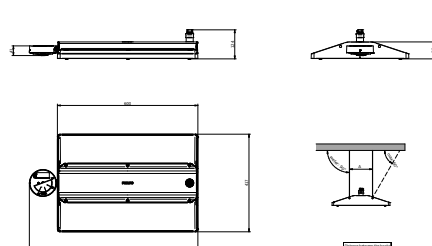
## Dimensional drawing

BY580X suspended



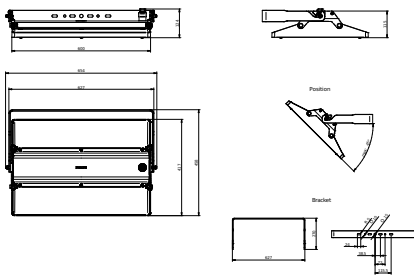
With Wieland connector on a cable or free cable finish, cable length is 0.5m or 1m or 1.5m or 2m

BY581X suspended



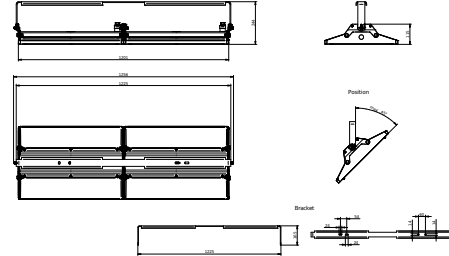
With Wieland connector on a cable or free cable finish, cable length is 0.5m or 1m or 1.5m or 2m

BY581P, BY583P Wallmounted bracket



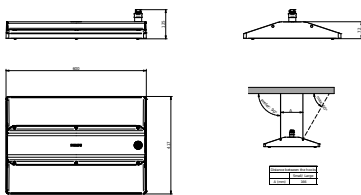
With Wieland connector on a cable or free cable finish, cable length is 0.5m or 1m or 1.5m or 2m

7005 Bracket



With Wieland connector on a cable or free cable finish, cable length is 0.5m or 1m or 1.5m or 2m

BY581P, BY583P suspended



With Wieland connector on a cable or free cable finish, cable length is 0.5m or 1m or 1.5m or 2m

## General Information

Driver included	Yes
Number of gear units	Unit
<b>Light Technical</b>	
Correlated Colour Temperature (Nom)	4000 K
Colour rendering index (CRI)	>80
<b>Operating and Electrical</b>	
Protection class IEC	Safety class I
Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
<b>Mechanical and Housing</b>	
Housing Colour	Silver
Ingress protection code	IP65
<b>Emergency Operation</b>	
Central Emergency	No
<b>Approval and Application</b>	
CE mark	Yes
ENEC mark	ENEC mark
Flammability mark	For mounting on easily flammable surfaces
<b>Initial Performance (IEC Compliant)</b>	
Luminous flux tolerance	+/-10%

## General Information

Order Code	Full Product Name	Service Tag
910505102956	BY581P 700S/840 DIA HE WB GC SI BR	Yes
910505102859	BY581X 350S/840 SIA WB GC SI H4	Yes
910505102862	BY581X 250S/840 SIA HE WB GC SI H4	Yes
910505102871	BY581X 250S/840 SIA HE WB GC SI ELW3 H4	Yes
910505102913	BY581P 250S/840 DIA HE ASYM GC SI MBW	-
910505102875	BY581P 250S/840 PSU HE WB GC SI	Yes
910505102881	BY581P 350S/840 DIA WB GC SI	Yes
910505102895	BY581P 250S/840 DIA WB GC SI ELD3	Yes
910505102921	BY581P 250S/840 DIA HE XNB GC SI	-
910505102937	BY581P 350S/840 DIA HE WB GC SI XT 1m	-
910505102857	BY580X 170S/840 SIA WB GC SI H4	Yes
910505102860	BY580X 130S/840 SIA HE WB GC SI H4	Yes

## Light Technical

Order Code	Full Product Name	Luminous efficacy (rated) (nom.)	Luminous Flux	Optic type
910505102956	BY581P 700S/840 DIA HE WB GC SI BR	177 lm/W	70,000 lm	Wide beam
910505102859	BY581X 350S/840 SIA WB GC SI H4	167 lm/W	35,000 lm	Wide beam
910505102862	BY581X 250S/840 SIA HE WB GC SI H4	184 lm/W	25,000 lm	Wide beam
910505102871	BY581X 250S/840 SIA HE WB GC SI ELW3 H4	184 lm/W	25,000 lm	Wide beam
910505102913	BY581P 250S/840 DIA HE ASYM GC SI MBW	176 lm/W	25,000 lm	Assymetric beam angle
910505102875	BY581P 250S/840 PSU HE WB GC SI	184 lm/W	25,000 lm	Wide beam

Order Code	Full Product Name	Luminous efficacy (rated) (nom.)	Luminous Flux	Optic type
910505102881	BY581P 350S/840 DIA WB GC SI	167 lm/W	35,000 lm	Wide beam
910505102895	BY581P 250S/840 DIA WB GC SI ELD3	174 lm/W	25,000 lm	Wide beam
910505102921	BY581P 250S/840 DIA HE XNB GC SI	181 lm/W	25,000 lm	Narrow beam
910505102937	BY581P 350S/840 DIA HE WB GC SI XT 1m	177 lm/W	35,000 lm	Wide beam
910505102857	BY580X 170S/840 SIA WB GC SI H4	167 lm/W	17,000 lm	Wide beam
910505102860	BY580X 130S/840 SIA HE WB GC SI H4	178 lm/W	13,000 lm	Wide beam

## Operating and Electrical

## GentleSpace gen4

Order Code	Full Product Name	Power Consumption	Suitable for random switching
910505102956	BY581P 700S/840 DIA HE WB GC SI BR	397 W	No
910505102859	BY581X 350S/840 SIA WB GC SI H4	210 W	Yes (relates to presence/movement detection and daylight harvesting)
910505102862	BY581X 250S/840 SIA HE WB GC SI H4	136 W	Yes (relates to presence/movement detection and daylight harvesting)
910505102871	BY581X 250S/840 SIA HE WB GC SI ELW3 H4	136 W	Yes (relates to presence/movement detection and daylight harvesting)
910505102913	BY581P 250S/840 DIA HE ASYM GC SI MBW	142 W	No
910505102875	BY581P 250S/840 PSU HE WB GC SI	136 W	No

Order Code	Full Product Name	Power Consumption	Suitable for random switching
910505102881	BY581P 350S/840 DIA WB GC SI	210 W	No
910505102895	BY581P 250S/840 DIA WB GC SI ELD3	144 W	No
910505102921	BY581P 250S/840 DIA HE XNB GC SI	138 W	No
910505102937	BY581P 350S/840 DIA HE WB GC SI XT 1m	198 W	No
910505102857	BY580X 170S/840 SIA WB GC SI H4	102 W	Yes (relates to presence/movement detection and daylight harvesting)
910505102860	BY580X 130S/840 SIA HE WB GC SI H4	73 W	Yes (relates to presence/movement detection and daylight harvesting)

### Controls and Dimming

Order Code	Full Product Name	Dimmable	Embedded control	Maximum dim level
910505102956	BY581P 700S/840 DIA HE WB GC SI BR	Yes	-	10%
910505102859	BY581X 350S/840 SIA WB GC SI H4	Yes	Sensor SNH (R) 210	-
910505102862	BY581X 250S/840 SIA HE WB GC SI H4	Yes	Sensor SNH (R) 210	-
910505102871	BY581X 250S/840 SIA HE WB GC SI ELW3 H4	Yes	Sensor SNH (R) 210	-
910505102913	BY581P 250S/840 DIA HE ASYM GC SI MBW	Yes	-	10%
910505102875	BY581P 250S/840 PSU HE WB GC SI	No	-	-

Order Code	Full Product Name	Dimmable	Embedded control	Maximum dim level
910505102881	BY581P 350S/840 DIA WB GC SI	Yes	-	10%
910505102895	BY581P 250S/840 DIA WB GC SI ELD3	Yes	-	10%
910505102921	BY581P 250S/840 DIA HE XNB GC SI	Yes	-	10%
910505102937	BY581P 350S/840 DIA HE WB GC SI XT 1m	Yes	-	10%
910505102857	BY580X 170S/840 SIA WB GC SI H4	Yes	Sensor SNH (R) 210	-
910505102860	BY580X 130S/840 SIA HE WB GC SI H4	Yes	Sensor SNH (R) 210	-

### Mechanical and Housing

Order Code	Full Product Name	Mech. impact protection code
910505102956	BY581P 700S/840 DIA HE WB GC SI BR	IK07
910505102859	BY581X 350S/840 SIA WB GC SI H4	IK03
910505102862	BY581X 250S/840 SIA HE WB GC SI H4	IK03
910505102871	BY581X 250S/840 SIA HE WB GC SI ELW3 H4	IK03
910505102913	BY581P 250S/840 DIA HE ASYM GC SI MBW	IK07
910505102875	BY581P 250S/840 PSU HE WB GC SI	IK07

Order Code	Full Product Name	Mech. impact protection code
910505102881	BY581P 350S/840 DIA WB GC SI	IK07
910505102895	BY581P 250S/840 DIA WB GC SI ELD3	IK07
910505102921	BY581P 250S/840 DIA HE XNB GC SI	IK07
910505102937	BY581P 350S/840 DIA HE WB GC SI XT 1m	IK07
910505102857	BY580X 170S/840 SIA WB GC SI H4	IK03
910505102860	BY580X 130S/840 SIA HE WB GC SI H4	IK03

### Emergency Operation (1/2)

Order Code	Full Product Name	Emergency lighting	Emergency flux	Type of emergency lighting battery	Power consumption during Central DC emergency mode
910505102956	BY581P 700S/840 DIA HE WB GC SI BR	-	-	-	-
910505102859	BY581X 350S/840 SIA WB GC SI H4	-	-	-	-
910505102862	BY581X 250S/840 SIA HE WB GC SI H4	-	-	-	-
910505102871	BY581X 250S/840 SIA HE WB GC SI ELW3 H4	Emergency lighting 3 hours duration with Wireless Interface	850 lm	Lithium	5 W
910505102913	BY581P 250S/840 DIA HE ASYM GC SI MBW	-	-	-	-
910505102875	BY581P 250S/840	-	-	-	-

Order Code	Full Product Name	Emergency lighting	Emergency flux	Type of emergency lighting battery	Power consumption during Central DC emergency mode
	PSU HE WB GC SI				
910505102881	BY581P 350S/840 DIA WB GC SI	-	-	-	-
910505102895	BY581P 250S/840 DIA WB GC SI ELD3	Emergency lighting 3-hour duration with DALI interface	850 lm	Lithium	5 W
910505102921	BY581P 250S/840 DIA HE XNB GC SI	-	-	-	-
910505102937	BY581P 350S/840 DIA HE WB GC SI XT 1m	-	-	-	-
910505102857	BY580X 170S/840 SIA WB GC SI H4	-	-	-	-
910505102860	BY580X 130S/840 SIA HE WB GC SI H4	-	-	-	-

### Emergency Operation (2/2)

Order Code	Full Product Name	Rated duration of the emergency lighting (when fully charged)
910505102956	BY581P 700S/840 DIA HE WB GC SI BR	-
910505102859	BY581X 350S/840 SIA WB GC SI H4	-
910505102862	BY581X 250S/840 SIA HE WB GC SI H4	-
910505102871	BY581X 250S/840 SIA HE WB GC SI ELW3 H4	3 h
910505102913	BY581P 250S/840 DIA HE ASYM GC SI MBW	-
910505102875	BY581P 250S/840 PSU HE WB GC SI	-

Order Code	Full Product Name	Rated duration of the emergency lighting (when fully charged)
910505102881	BY581P 350S/840 DIA WB GC SI	-
910505102895	BY581P 250S/840 DIA WB GC SI ELD3	3 h
910505102921	BY581P 250S/840 DIA HE XNB GC SI	-
910505102937	BY581P 350S/840 DIA HE WB GC SI XT 1m	-
910505102857	BY580X 170S/840 SIA WB GC SI H4	-
910505102860	BY580X 130S/840 SIA HE WB GC SI H4	-

### Approval and Application

Order Code	Full Product	Ambient temperature	Glow-wire test	Flickering value	Stroboscopic effect
	Name	range		(PstLM)	
910505102956	BY581P	-30 to +55 °C	Temperature 650 °C, duration 30 s	0.22	0.01
	700S/840				
	DIA HE WB				
	GC SI BR				
910505102859	BY581X	-30 to +55 °C	Temperature 650 °C, duration 30 s	1	0.4
	350S/840				
	SIA WB GC SI H4				
910505102862	BY581X	-30 to +55 °C	Temperature 650 °C, duration 30 s	1	0.4
	250S/840				
	SIA HE WB GC SI H4				
910505102871	BY581X	0°C to 25°C	Temperature 850 °C, duration 30 s	1	0.4
	250S/840				
	SIA HE WB GC SI ELW3 H4				
910505102913	BY581P	-30 to +55 °C	Temperature 650 °C, duration 30 s	0.12	0.07
	250S/840				
	DIA HE				
	ASYM GC SI MBW				
910505102875	BY581P	-30 to +55 °C	Temperature 650 °C, duration 30 s	0.04	0.07
	250S/840				

Order Code	Full Product	Ambient temperature	Glow-wire test	Flickering value	Stroboscopic effect
	Name	range		(PstLM)	
910505102881	PSU HE WB	-30 to +55 °C	Temperature 650 °C, duration 30 s	0.22	0.01
	GC SI				
910505102881	BY581P	-30 to +55 °C	Temperature 650 °C, duration 30 s	0.22	0.01
	350S/840				
	DIA WB GC SI				
910505102895	BY581P	0°C to 25°C	Temperature 850 °C, duration 30 s	0.12	0.07
	250S/840				
	DIA WB GC SI ELD3				
910505102921	BY581P	-30 to +55 °C	Temperature 650 °C, duration 30 s	0.12	0.07
	250S/840				
	DIA HE XNB GC SI				
910505102937	BY581P	-30°C to 55°C	Temperature 650 °C, duration 30 s	0.22	0.01
	350S/840				
	DIA HE WB GC SI XT 1m				
910505102857	BY580X	-30 to +55 °C	Temperature 650 °C, duration 30 s	1	0.4
	170S/840				
	SIA WB GC SI H4				
910505102860	BY580X	-30 to +55 °C	Temperature 650 °C, duration 30 s	1	0.4
	130S/840				
	SIA HE WB GC SI H4				

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial chromaticity
910505102956	BY581P 700S/840 DIA HE WB GC SI BR	(0.383, 0.377) SDCM 3
910505102859	BY581X 350S/840 SIA WB GC SI H4	(0.380, 0.375) SDCM 3
910505102862	BY581X 250S/840 SIA HE WB GC SI H4	(0.383, 0.377) SDCM 3
910505102871	BY581X 250S/840 SIA HE WB GC SI ELW3 H4	(0.383, 0.377) SDCM 3
910505102913	BY581P 250S/840 DIA HE ASYM GC SI MBW	(0.383, 0.377) SDCM 3
910505102875	BY581P 250S/840 PSU HE WB GC SI	(0.383, 0.377) SDCM 3

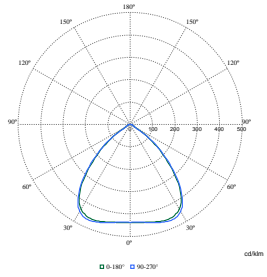
Order Code	Full Product Name	Initial chromaticity
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910505102895	BY581P 250S/840 DIA WB GC SI ELD3	(0.380, 0.375) SDCM 3
910505102921	BY581P 250S/840 DIA HE XNB GC SI	(0.383, 0.377) SDCM 3
910505102937	BY581P 350S/840 DIA HE WB GC SI XT 1m	(0.383, 0.377) SDCM 3
910505102857	BY580X 170S/840 SIA WB GC SI H4	(0.380, 0.375) SDCM 3
910505102860	BY580X 130S/840 SIA HE WB GC SI H4	(0.383, 0.377) SDCM 3

Product Data

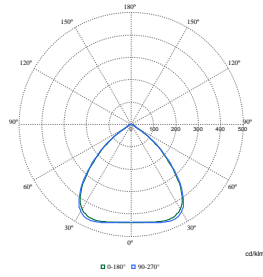
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910505102862	BY581X 250S/840 SIA HE WB GC SI H4	BY581X
910505102871	BY581X 250S/840 SIA HE WB GC SI ELW3 H4	BY581X
910505102913	BY581P 250S/840 DIA HE ASYM GC SI MBW	BY581P
910505102875	BY581P 250S/840 PSU HE WB GC SI	BY581P

Order Code	Full Product Name	Product family code
910505102881	BY581P 350S/840 DIA WB GC SI	BY581P
910505102895	BY581P 250S/840 DIA WB GC SI ELD3	BY581P
910505102921	BY581P 250S/840 DIA HE XNB GC SI	BY581P
910505102937	BY581P 350S/840 DIA HE WB GC SI XT 1m	BY581P
910505102857	BY580X 170S/840 SIA WB GC SI H4	BY580X
910505102860	BY580X 130S/840 SIA HE WB GC SI H4	BY580X

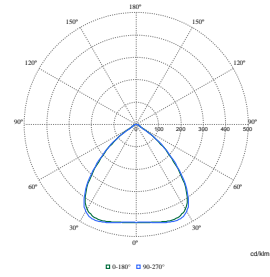
Polar Wide Diagrams



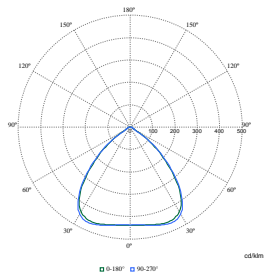
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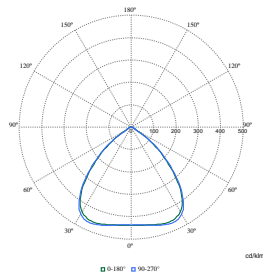
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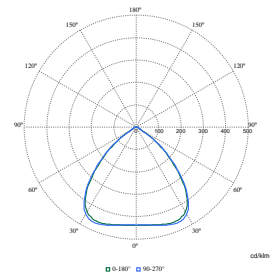
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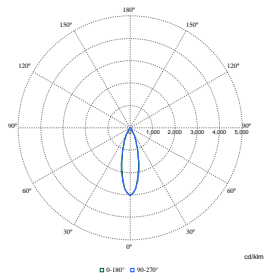
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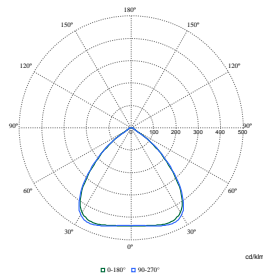
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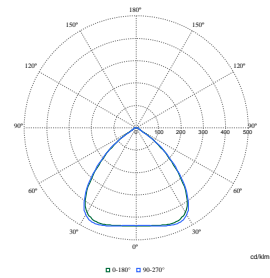
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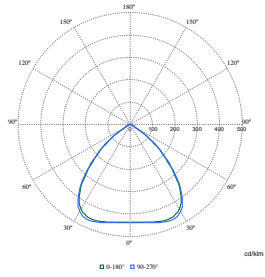


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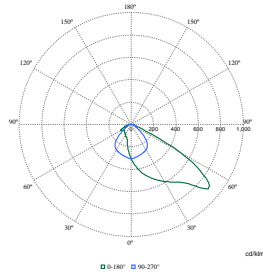


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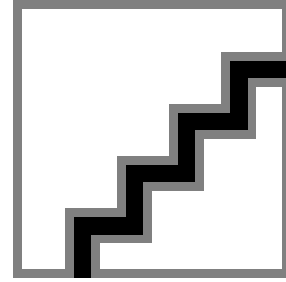
## Polar Wide Diagrams



Polar Normal (separate) - BY580PI - 910505102937



Polar Normal (separate) - BY580PI - 910505102913



Polar Normal (separate) - null - 910505102956

