ProAir – an unrivaled combination of light quality and efficiency

ProAir

Store designers want a spot that fits in with their store design. Visual merchandisers need the very best light quality and spots that are easily adjustable. And maintenance managers and green champions want to reduce energy consumption and maintenance costs. ProAir offers store designers a LED spot with an elegant and compact design that they can customize to suit their needs. It gives visual merchandisers great rendering of colors and whites and excellent color consistency, as well as well-defined, clean beams for maximum impact. All versions of ProAir offer low maintenance and energy consumption.

Benefits
· Best-in-class efficiency
· Attractive design that blends in with the store architecture

Features
· Elegant, compact design – customizable
· Great rendering of colors and whites and excellent color consistency
· Clean, well-defined beams
· Low maintenance and energy consumption

Application
· Shops
· Hotels
· Offices

Specifications

ProAir

Type	ST640T		**Average ambient temperature**	+25 ºC
Light source	Non-replaceable LED module		**Operating temperature range**	+10 to +40 ºC
Power	16 W (LED17S)		**Driver**	Built-in
	26.5 W (LED20S)		**Mains voltage**	230 or 240 V / 50-60 Hz
	25 W (LED27S)		**Dimming**	DALI-dimmable version available
Beam angle	NB (10, 18º), MB and WB		**Material**	Housing: die-cast aluminum
Luminous flux (light color 830)	NB: 2000 lm			Gearbox: folded metal
	MB, WB: 1700 and 2700 lm		**Color**	Black (BL, RAL9004)
Correlated Color Temperature	3000 K			White (WH, RAL9003)
Color Rendering Index	80		**Optic**	Reflectors in silver-coated plastic
	90		**Optical cover**	Curved glass (NB versions)
	92 (CrispWhite version)			Acrylic cover (MB and WB versions)
Standard deviation color matching	3		**Connection**	3-C track adaptor (standard versions) or 5C6 tracks adaptor (DALI-dimmable versions)
Median useful life L70B50	70,000 hours		**Installation**	On 3-circuit track
Median useful life L80B50	50,000 hours			On DALI track
Median useful life L90B50	25,000 hours		**Accessories**	Glare shield (GS), honeycomb (HC), skirt (SK), aiming pole

Versions

ProAir – Generation 2 – LED Module, system flux 1500 lm

Stromversorgungseinheit – Tief-/breitstrahlend

Product details

Fully integrated heatsink

Fully integrated heatsink

Product details

Detailed front face for an optimized light effect

Detailed front face for an optimized light effect

Customized hinge for re-aiming from the ground with a pole

Customized hinge for re-aiming from the ground with a pole

ProAir

Application Conditions

Ambient temperature range	+10 to +40 °C
Suitable for random switching	Yes

Approval and Application

Mech. impact protection code	IK02
Ingress protection code	IP20

Controls and Dimming

Dimmable	No

Operating and Electrical

Input Voltage	220 to 240 V

General Information

Beam angle of light source	120 °
CE mark	CE mark
Protection class IEC	Safety class I (I)
Optical cover/lens type	No
Driver included	Yes
ENEC mark	ENEC mark
Flammability mark	F
Glare shielding accessories	No
Glow-wire test	650/5
Light source replaceable	No
Number of gear units	1 unit
Number of light sources	1
Product Family Code	ST640T

Initial Performance (IEC Compliant)

Init. Corr. Colour Temperature	3000 K
Luminous flux tolerance	+/-10%

General Information

Order Code	Full Product Name	Lamp family code	Optic type
87680000	ST640T LED17S/CRW PSU NB10 WH	LED15S	NB10
87682400	ST640T LED20S/930 PSU NB10 WH	LED20S	NB10
87683100	ST640T LED17S/830 PSU MB WH	LED17S	MB
87684800	ST640T LED17S/930 PSU MB WH	LED17S	MB
87685500	ST640T LED17S/CRW PSU MB WH	LED17S	MB
87686200	ST640T LED27S/830 PSU MB WH	LED27S	MB
87687900	ST640T LED27S/930 PSU MB WH	LED27S	MB
87688600	ST640T LED27S/CRW PSU MB WH	LED27S	MB
87765400	ST640T LED27S/930 PSU WB WH	LED27S	WB
91800500	ST640T LED49S/830 PSU MB WH	LED49S	MB
91833300	ST640T LED49S/830 PSU WB WH	LED49S	WB
87761600	ST640T LED27S/930 PSU MB BK	LED27S	MB

Initial Performance (IEC Compliant) (1/2)

Order Code	Full Product Name	Initial chromaticy	Init. Colour Rendering Index	Initial LED luminaire efficacy	Initial luminous flux
87680000	ST640T LED17S/CRW PSU NB10 WH	(0.43, 0.40) SDCM<3	≥90	66.66666666666667 lm/W	1700 lm
87682400	ST640T LED20S/930 PSU NB10 WH	(0.43, 0.40) SDCM <3	≥90	93.02325581395348 lm/W	2000 lm
87683100	ST640T LED17S/830 PSU MB WH	(0.43, 0.40) SDCM<3	≥80	118.05555555555556 lm/W	1700 lm
87684800	ST640T LED17S/930	(0.43, 0.40) SDCM <3	≥90	102.40963855421685 lm/W	1700 lm
	0 PSU MB WH				
87685500	ST640T LED17S/CRW PSU MB WH	(0.43, 0.40) SDCM<3	≥90	66.66666666666667 lm/W	1700 lm
87686200	ST640T LED27S/830 PSU MB WH	(0.43, 0.40) SDCM<3	≥80	120 lm/W	2700 lm
87687900	ST640T LED27S/930 PSU MB WH	(0.43, 0.40) SDCM <3	≥90	105.88235294117646 lm/W	2700 lm

ProAir

Order Code	Full Product Name	Initial chromaticy	Init. Colour Rendering Index	Initial LED luminaire efficacy	Initial luminous flux
87688600	ST640T LED27S/CRW PSU MB WH	(0.43, 0.40) SDCM<3	≥90	67.5 lm/W	2700 lm
87765400	ST640T LED27S/930 PSU WB WH	(0.43, 0.40) SDCM <3	≥90	105.88235294117646 lm/W	2700 lm
91800500	ST640T LED49S/83	(0.43, 0.40) SDCM<3	≥80	122.5 lm/W	4900 lm

Order Code	Full Product Name	Initial chromaticy	Init. Colour Rendering Index	Initial LED luminaire efficacy	Initial luminous flux
	0 PSU MB WH				
91833300	ST640T LED49S/83 0 PSU WB WH	(0.43, 0.40) SDCM<3	≥80	122.5 lm/W	4900 lm
87761600	ST640T LED27S/93 0 PSU MB BK	(0.43, 0.40) SDCM <3	≥90	105.88235294117646 lm/W	2700 lm

Initial Performance (IEC Compliant) (2/2)

Order Code	Full Product Name	Initial input power
87680000	ST640T LED17S/CRW PSU NB10 WH	25.5 W
87682400	ST640T LED20S/930 PSU NB10 WH	21.5 W
87683100	ST640T LED17S/830 PSU MB WH	14.4 W
87684800	ST640T LED17S/930 PSU MB WH	16.6 W
87685500	ST640T LED17S/CRW PSU MB WH	25.5 W
87686200	ST640T LED27S/830 PSU MB WH	22.5 W

Order Code	Full Product Name	Initial input power
87687900	ST640T LED27S/930 PSU MB WH	25.5 W
87688600	ST640T LED27S/CRW PSU MB WH	40 W
87765400	ST640T LED27S/930 PSU WB WH	25.5 W
91800500	ST640T LED49S/830 PSU MB WH	40 W
91833300	ST640T LED49S/830 PSU WB WH	40 W
87761600	ST640T LED27S/930 PSU MB BK	25.5 W

Mechanical and Housing

Order Code	Full Product Name	Colour
87680000	ST640T LED17S/CRW PSU NB10 WH	White
87682400	ST640T LED20S/930 PSU NB10 WH	White
87683100	ST640T LED17S/830 PSU MB WH	White
87684800	ST640T LED17S/930 PSU MB WH	White
87685500	ST640T LED17S/CRW PSU MB WH	White
87686200	ST640T LED27S/830 PSU MB WH	White

Order Code	Full Product Name	Colour
87687900	ST640T LED27S/930 PSU MB WH	White
87688600	ST640T LED27S/CRW PSU MB WH	White
87765400	ST640T LED27S/930 PSU WB WH	White
91800500	ST640T LED49S/830 PSU MB WH	White
91833300	ST640T LED49S/830 PSU WB WH	White
87761600	ST640T LED27S/930 PSU MB BK	Black

www.lighting.philips.com

2020, April 6 – data subject to change