



APPLICATION

Clearspot DTP107 is a high-performance track-mounted spotlight developed for projects requiring excellent efficiency, precise light distribution and high visual comfort. The luminaire combines a Philips COB LED module with advanced LEDIL optics, delivering up to 4,480 lumens and efficacy up to 165 lm/W while maintaining CRI above 90. Beam angles from 15° to 60° provide flexibility for accent, display and general lighting. The spotlight can be tilted through 90° and rotated through 355°, allowing precise positioning of the light. DALI, Touch and Dim and Casambi-compatible versions are available for integration into modern lighting control systems. Clearspot DTP107 is ideal for retail stores, showrooms, offices, hospitality areas and other premium commercial interiors.

2950 lm SYSTEM FLUX	23 W INPUT POWER	128 lm/W EFFICACY	2700 K CCT	≥90 CRI	IP20 INGRESS	IK02 IMPACT	50 000 h L90B10
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ELECTRICAL PARAMETERS

Nominal supply voltage	230 (220–240) V AC	Supply voltage range	220–240 V AC
Type of supply current	AC	Supply frequency	50 / 60 Hz
Rated input power	23W	Power factor (PF)	0.95
Total harmonic distortion (THDi)	<10%	Protection class (electric shock)	II
Driver type	Track adaptor driver		

PHOTOMETRIC PARAMETERS

Luminous flux — system	2950lm	Luminous efficacy — system	128lm/W
Correlated colour temperature (CCT)	2700 K	Colour rendering index Ra (CRI)	≥90
Init. CRI tolerance	±3	Light distribution type	Symmetric
Luminaire beam spread	36°	Optic type	PMMA lens
Photobiological safety class	RG1	Colour consistency (SDCM)	< 3 MacAdam steps
Upward light output ratio (ULOR)	0	Luminous flux tolerance	±5 %

CONSTRUCTION & MATERIALS

Luminaire type	Track-mounted spotlight	Light source type	LED
Light source replaceable	Yes	Cap / base type	Integrated
Housing material	Aluminium	Housing coating	Powder-coated
Optic material	PMMA	Optical cover material	PMMA
Housing colour (RAL)	White	Mounting type	Track-mounted
Number of light sources	1	Number of gear units	1 pcs

PROTECTION & ENVIRONMENT

IP rating — enclosure	IP20	Impact resistance class IK	IK02
Operating temperature range	0...+35 °C	Storage temperature range	-40...+65 °C
Glow-wire test	650 °C / 5 s	Relative humidity (max)	N/A

CONTROL & DIMMING

Dimmable	No	Control protocol / interface	On/off
Dimming range	N/A	Auto-dimming (chronoSTEP)	No
Built-in motion / presence sensor	No	Built-in daylight sensor	No
LED lumen maintenance compensation (CLO)	No	ZHAGA / NEMA socket compatibility	No

RELIABILITY & LIFETIME

Constant Light Output (CLO)	No	Light source lifetime	50000 @ L80 B50 h
Lumen maintenance @ 50 000 h	L80 B50	Control gear failure rate @ 50 000 h	5 %

CERTIFICATIONS

Warranty period	5 years	CE marking	Yes
ENEC mark	No	ENEC+ mark	No
UKCA marking	Yes	D4i certified (DALI)	No
EU RoHS compliant	Yes	Light source energy efficiency class	D

STANDARDS & SUSTAINABILITY

Applicable standard	EN-IEC 60598-2-1	ETIM Class	Not determined
Recyclable content ratio	Not determined	Non-virgin material ratio	Not determined
Sustainability rating	Not determined	EAN / UPC	Not determined
Application areas	Shops, showrooms, meeting rooms, circulation areas and hospitality		

Environmental data. Embedded carbon, recyclable content and sustainability ratings are provided per article where determined.

Documents. Photometric files (IES / LDT) and installation instructions are available at takton.ee.