

LS450_120 3000lm 19W I 840 S 60D

TAKTON

Benefits:

LS450 Clarline is a versatile linear luminaire developed with a particular focus on wall washing and classroom board lighting. Versions with asymmetric optics provide uniform illumination of vertical surfaces, helping to minimise shadows, glare and distracting reflections. This makes LS450 an excellent solution for blackboards, whiteboards, presentation walls, displays and other areas where clear and even vertical illumination is essential. The luminaire is also available with symmetric 60° and 110° optics and double-asymmetric light distribution for general lighting, corridors, retail areas, shelving and workspaces. Its minimalist aluminium housing with smooth die-cast end caps is suitable for surface-mounted, suspended or track installation. LS450 is available with CRI 80 or CRI 90, 3000K or 4000K, as well as Tunable White from 2700K to 6500K. DALI, Touch and Dim, Corridor Mode and Casambi-compatible versions allow the lighting to be adapted to different educational and commercial environments. High-quality LEDIL optics, OSRAM LED modules and Philips Xitanium drivers ensure efficient and reliable long-term operation.



LS450_120 3000lm 19W I 840 S 60D

TAKTON

Electrical Parameters

Nominal supply voltage:

230 (220–240) V AC

Supply voltage range:

198–264 V AC

Type of supply current:

AC

Supply frequency:

50 / 60 Hz

Rated input power:

19W

Power factor (PF):

0.98

Driver efficiency at nominal load:

92%

Total harmonic distortion (THDi):

<10%

Protection class (electric shock):

I

Inrush current / time:

5A 50μsec

Driver type:

TCI

Number of luminaires on MCB 16A type B:

45

LS450_120 3000lm 19W I 840 S 60D

TAKTON

Photometric Parameters

Luminous flux — system:

3000lm

Luminous flux — LED module:

3500lm

Luminous efficacy — system:

158lm/W

Correlated colour temperature (CCT):

4000 K

Colour rendering index Ra (CRI):

?80

Init. CRI tolerance:

±3

Light distribution type:

Symmetric

Luminaire beam spread:

60°

Optic type:

60D

Photobiological safety class:

RG1

Flicker — Output PstLM / SVM:

?0.1 / ?0.2

Colour consistency (SDCM):

< 3 MacAdam steps

Upward light output ratio (ULOR):

0

Luminous flux tolerance:

±5 %

Construction & Materials

Luminaire type:

Linear suspended

Light source type:

LED

Light source replaceable:

yes

Cap / base type:

Integrated

Housing material:

Aluminium profile

Housing coating:

Powder coating

Optic material:

PMMA

Housing colour (RAL):

any RAL on request

Mounting type:

Surface-mounted, suspended, track

Number of gear units:

1 pcs

Protection & Environment

IP rating — enclosure:

IP40

Impact resistance class IK:

IK05

Operating temperature range:

-40...+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

Built-in motion / presence sensor:

Easyair sensor on request

LS450_120 3000lm 19W I 840 S 60D

TAKTON

Reliability & Lifetime

Light source lifetime:

100000@L90 B10h

Lumen maintenance @ 50 000 h:

L95B5

Lumen maintenance @ 100 000 h:

L90 B10

Control gear failure rate @ 50 000 h:

29 %

Control gear failure rate @ 100 000 h:

10%

Maximum case temperature Tc:

75°C

Certifications

Warranty period:

5 years

CE marking:

CE marked

ENEC mark:

No

ENEC+ mark:

No

UKCA marking:

UKCA marked

D4i certified (DALI):

No

EU RoHS compliant:

Yes

LS450_120 3000lm 19W I 840 S 60D

TAKTON

Standards &
Sustainability

Applicable standard:

EN-IEC 62722-2-26

Embedded carbon A1–A3:

Not determined

Recyclable content ratio:

Not determined

Non-virgin material ratio:

Not determined

Sustainability rating:

Not determined

EAN / UPC:

Not determined

Application areas:

Classroom boards, presentation
walls, displays, corridors, retail,
shelving and workspaces