

SYLVANIA

Sylvania Lighting Catalogue 2020 Kuwait - New Additions

Light your world

INSAVER SLIM 225

Insaver Slim 225 IP44 DALI 3100lm 840 ME

0030424



Product features

- Insaver Slim is a ceiling recessed LED downlight IP44 ,Die-cast aluminium body, Dali dimmable LED driver, 25W; 3100lm; 124lm/W; 50000 hrs (L70); 4000K; UGR <22 with shallow recessed depth 65mm.



PRODUCT OVERVIEW

IPC Code	0030424
Product name	Insaver Slim 225 IP44 DALI 3100lm 840 ME
Technology	LED
Housing	Aluminium
Mount	Ceiling recessed mounting
General application	Hospitality
ETIM Class	EC001744
E-number FI	4276921
Fixture luminous flux (lm)	3100
Luminaire efficacy (lm/W)	124
Colour temperature (K)	4000
CRI (Ra)	>80
Colour Variation Initial (SDCM)	SDCM3
Beam Angle (°)	60
Beam Angle (°)	NA
Glare control	< 22
Photobiological Risk Group	RG1
Total power consumption (W)	25
Electrical protection	Class II
Control gear type	LED driver constant current
Dimmable	Dali
LED Flickering Rate	Ultra low (5% or less)
Average life (Nominal) (h)	50000
Housing colour	RAL 9003 - Signal white
IP rating	IP44
IK rating	IK07

DATA TABLE

General data

IPC Code	0030424
Product name	Insaver Slim 225 IP44 DALI 3100lm 840 ME

INSAVER SLIM 225

Insaver Slim 225 IP44 DALI 3100lm 840 ME

0030424

Technology	LED
Housing	Aluminium
Mount	Ceiling recessed mounting
General application	Hospitality
Operating temperature range (°C)	-10°C - 40°C
ETIM Class	EC001744
E-number FI	4276921

Optical data

Fixture luminous flux (lm)	3100
Luminaire efficacy (lm/W)	124
Colour temperature (K)	4000
CRI (Ra)	>80
Colour Variation Initial (SDCM)	SDCM3
Beam Angle (°)	60
Beam Angle (°)	NA
Distribution type	Symmetric, Direct
Glare control	< 22
Photobiological Risk Group	RG1

Electrical data

Total power consumption (W)	25
Mains voltage (V)	220-240V~
Lamp power factor	>0.9
THD (at 230 V, 50 Hz, full load, at 100% dimming level) xx.x %	10
Electrical protection	Class II
Control gear type	LED driver constant current
Dimmable	No
Drive current (mA)	630
Inrush Current (A)	26.8
Inrush Duration (µs)	276
Glow Wire Test (°C)	650
Nominal Frequency (Hz)	50/60Hz
LED Flickering Rate	Ultra low (5% or less)
Max. Luminaires per 10A C Breaker	9
Max. Luminaires per 13A C Breaker	11
Max. Luminaires per 16A C Breaker	13
Max. Luminaires per 20A C Breaker	17

Lifetime data

Performance ambient temperature Tq (°C)	40
Lumen maintenance - L70 B50	50000
Average life (Nominal) (h)	50000

Physical data

Housing colour	RAL 9003 - Signal white
IP rating	IP44
IK rating	IK07

INSAVER SLIM 225

Insaver Slim 225 IP44 DALI 3100lm 840 ME

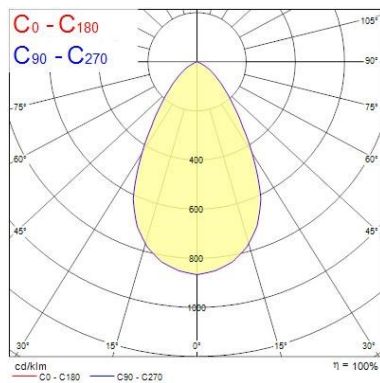
0030424

Lens material	PMMA
Reflector finish	High-gloss
Nominal Product Length (mm)	240
Nominal Product Width (mm)	240
Nominal Product Height (mm)	60
Nominal Product Diameter (mm)	240
Weight (kg)	0.83
Recessed Depth (mm)	150

Packaging

Single packaging type	Carton
Packaging single length / height (cm)	25.5
Packaging single width (cm)	25.5
Packaging single depth (cm)	8.5
DUN14 (outer)	15410288303076
Units per outer package	12
Packaging outer length / height (cm)	52.5
Packaging outer width (cm)	52.5
Packaging outer depth (cm)	27.5

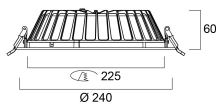
PHOTOMETRY



0.5	0.60	E(0°) E(C0)	31.1°	10432 3277
1.0	1.21	E(0°) E(C0)	31.1°	2608 819
1.5	1.81	E(0°) E(C0)	31.1°	1188 384
2.0	2.41	E(0°) E(C0)	31.1°	681 208
2.5	3.02	E(0°) E(C0)	31.1°	417 131
3.0	3.62	E(0°) E(C0)	31.1°	290 91

Distance [m] Cone diameter [m]
C0 - C180 (Half beam angle: 62.2°) Illuminance [lx]

TECHNICAL DRAWINGS



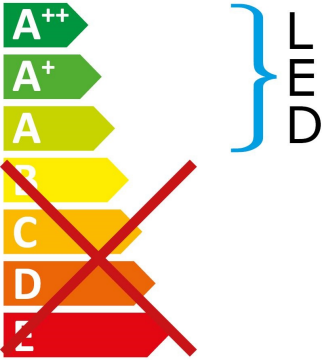
INSAVER SLIM 225

Insaver Slim 225 IP44 DALI 3100lm 840 ME
0030424

SYLVANIA 0030424



This luminaire contains built-in LED lamps

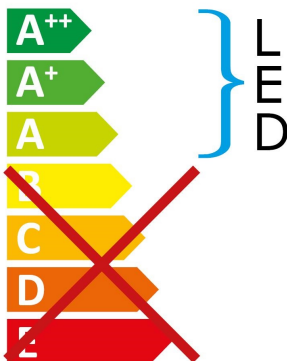


The lamps cannot be changed in the luminaire.

874/2012 



This luminaire contains built-in LED lamps



The lamps cannot be changed in the luminaire.

SYLVANIA 0030424 

874/2012

START DOWNLIGHT IP44 225

START Downlight 225 IP44 2325lm 840 ME
0030425



Product features

- Ceiling recessed LED downlight IP44, perfect where limited ceiling void is available with only 65mm product depth and 225mm cutout. Ideal replacement for 2x26W CFL downlights. The polycarbonate diffuser allows for a wider light distribution and increased spacings between luminaires. Die-cast aluminium body, 2325LM, 24W, 97lm/W, 4000K, Driver Current: 630mA, CRI80, 74° beam angle, Non-dimmable LED driver, IP44, IK07, 50,000 hrs (L70), (HxW) 65x225mm, 3 step MacAdam ellipse, Class 2, 220-240V, energy class: A++, A+, A



PRODUCT OVERVIEW

IPC Code	0030425
Product name	START Downlight 225 IP44 2325lm 840 ME
Technology	LED
Housing	Aluminium
Mount	Ceiling recessed mounting
General application	Hospitality, Logistics & Industry, Office
ETIM Class	EC001744
E-number FI	4278156
Fixture luminous flux (lm)	2325
Luminaire efficacy (lm/W)	97
LOR (%)	100
Colour temperature (K)	4000
CRI (Ra)	>80
Colour Variation Initial (SDCM)	SDCM3
Beam Angle (°)	74
Glare control	< 25
Photobiological Risk Group	RG0
Total power consumption (W)	24
Electrical protection	Class II
Control gear type	LED driver constant current
Dimmable	No
LED Flickering Rate	Ultra low (5% or less)
Average life (Nominal) (h)	50000
Housing colour	RAL 9003 - Signal white
IP rating	IP44
IK rating	IK07

DATA TABLE

General data

IPC Code	0030425
Product name	START Downlight 225 IP44 2325lm 840 ME

START DOWNLIGHT IP44 225

START Downlight 225 IP44 2325lm 840 ME

0030425

Technology	LED
Housing	Aluminium
Mount	Ceiling recessed mounting
General application	Hospitality, Logistics & Industry, Office
Operating temperature range (°C)	-10°C - 40°C
ETIM Class	EC001744
E-number FI	4278156

Optical data

Fixture luminous flux (lm)	2325
Luminaire efficacy (lm/W)	97
LOR (%)	100
Colour temperature (K)	4000
CRI (Ra)	>80
Colour Variation Initial (SDCM)	SDCM3
Adjustable chromaticity	N
Beam Angle (°)	74
Distribution type	Symmetric, Direct
Glare control	< 25
Photobiological Risk Group	RG0

Electrical data

Total power consumption (W)	24
Mains voltage (V)	220-240V~
Lamp power factor	>0.9
THD (at 230 V, 50 Hz, full load, at 100% dimming level) xx.x %	10
Electrical protection	Class II
Control gear type	LED driver constant current
Dimmable	No
Drive current (mA)	630
Inrush Current (A)	6.44
Inrush Duration (µs)	830
Glow Wire Test (°C)	850
Nominal Frequency (Hz)	50/60Hz
LED Flickering Rate	Ultra low (5% or less)
Max. Luminaires per 10A C Breaker	9
Max. Luminaires per 13A C Breaker	11
Max. Luminaires per 16A C Breaker	13
Max. Luminaires per 20A C Breaker	17

Lifetime data

Performance ambient temperature Tq (°C)	40
Lumen maintenance - L70 B50	50000
Average life (Nominal) (h)	50000

Physical data

Housing colour	RAL 9003 - Signal white
IP rating	IP44

START DOWNLIGHT IP44 225

START Downlight 225 IP44 2325lm 840 ME
0030425

IK rating	IK07
Diffuser finish	Opal
Diffuser material	PC Polycarbonate
Reflector finish	High-gloss
Nominal Product Length (mm)	240
Nominal Product Width (mm)	240
Nominal Product Height (mm)	65
Nominal Product Diameter (mm)	240
Weight (kg)	0.528
Recessed Depth (mm)	150

Packaging

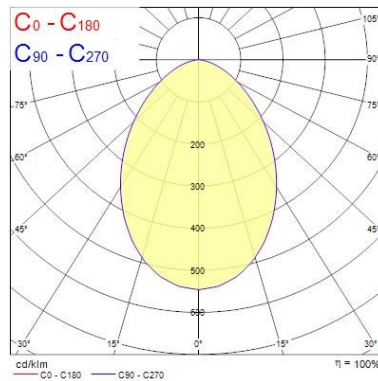
Single packaging type	Carton
Packaging single length / height (cm)	24.5
Packaging single width (cm)	24.5
Packaging single depth (cm)	8.0
DUN14 (outer)	15410288303311
Units per outer package	12
Packaging outer length / height (cm)	50.0
Packaging outer width (cm)	51.0
Packaging outer depth (cm)	27.0

PHOTOMETRY

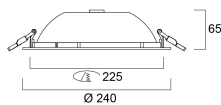
0.5	0.83	E(0°) E(C0)	39.7°	5096 1154
1.0	1.66	E(0°) E(C0)	39.7°	1274 291
1.5	2.49	E(0°) E(C0)	39.7°	566 129
2.0	3.32	E(0°) E(C0)	39.7°	319 73
2.5	4.15	E(0°) E(C0)	39.7°	204 47
3.0	4.99	E(0°) E(C0)	39.7°	142 32

Distance [m] Cone diameter [m] Illuminance [lx]

— C0 - C180 (Half beam angle: 75.4°)



TECHNICAL DRAWINGS



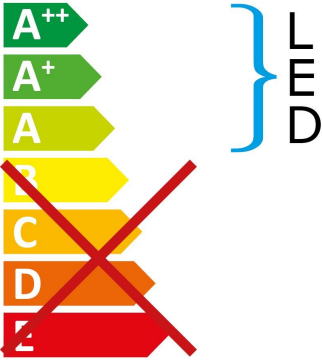
START DOWNLIGHT IP44 225

START Downlight 225 IP44 2325lm 840 ME
0030425

SYLVANIA 0030425



This luminaire contains built-in LED lamps

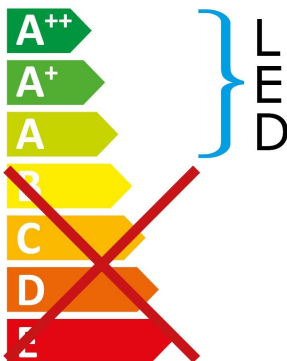


The lamps cannot be changed in the luminaire.

874/2012




This luminaire contains built-in LED lamps



The lamps cannot be changed in the luminaire.

SYLVANIA 0030425

874/2012


START DOWNLIGHT IP44 225

ST Downlight 225 IP44 DALI 2350Lm 840 ME
0030426



Product features

- Ceiling recessed LED downlight IP44, with only 65mm product depth and 225mm cutout. Ideal replacement for 2x26W CFL downlights. The polycarbonate diffuser allows for a wider light distribution and increased spacings between luminaires. Die-cast aluminium body, 2350LM, 23W, 102lm/W, 4000K, Driver Current: 650mA, CRI80, 74° beam angle, IP44, IK07, 50,000 hrs (L70),(HxW) 65x225mm, 3 step MacAdam ellipse, Class 2, 220-240V, energy class: A++, A+, A



PRODUCT OVERVIEW

IPC Code	0030426
Product name	ST Downlight 225 IP44 DALI 2350Lm 840 ME
Technology	LED
Housing	Aluminium
Mount	Ceiling recessed mounting
General application	Hospitality, Logistics & Industry, Office
ETIM Class	EC001744
E-number FI	4278169
Fixture luminous flux (lm)	2350
Luminous flux (lm)	2350
Luminaire efficacy (lm/W)	102
LOR (%)	100
Colour temperature (K)	4000
CRI (Ra)	>80
Colour Variation Initial (SDCM)	SDCM3
Beam Angle (°)	74
Glare control	< 25
Photobiological Risk Group	RG0
Total power consumption (W)	23
Electrical protection	Class II
Control gear type	Electronic ballast
Dimmable	Yes
Minimum dimming level (%)	1
LED Flickering Rate	Ultra low (5% or less)
Average life (Nominal) (h)	50000
Housing colour	RAL 9003 - Signal white
IP rating	IP44
IK rating	IK07

DATA TABLE

START DOWNLIGHT IP44 225

ST Downlight 225 IP44 DALI 2350Lm 840 ME

0030426

General data

IPC Code	0030426
Product name	ST Downlight 225 IP44 DALI 2350Lm 840 ME
Technology	LED
Housing	Aluminium
Mount	Ceiling recessed mounting
General application	Hospitality, Logistics & Industry, Office
ETIM Class	EC001744
E-number FI	4278169

Optical data

Fixture luminous flux (lm)	2350
Luminous flux (lm)	2350
Luminaire efficacy (lm/W)	102
LOR (%)	100
Colour temperature (K)	4000
CRI (Ra)	>80
Colour Variation Initial (SDCM)	SDCM3
Adjustable chromaticity	N
Beam Angle (°)	74
Distribution type	Symmetric, Direct
Glare control	< 25
Photobiological Risk Group	RG0

Electrical data

Total power consumption (W)	23
Mains voltage (V)	220-240V~
Lamp power factor	0.96
THD (at 230 V, 50 Hz, full load, at 100% dimming level) xx.x %	10
Electrical protection	Class II
Control gear type	Electronic ballast
Dimmable	Yes
Minimum dimming level (%)	1
Drive current (mA)	650
Inrush Current (A)	25
Inrush Duration (µs)	140
Glow Wire Test (°C)	850
Nominal Frequency (Hz)	50/60Hz
LED Flickering Rate	Ultra low (5% or less)
Max. Luminaires per 10A C Breaker	31
Max. Luminaires per 13A C Breaker	40
Max. Luminaires per 16A C Breaker	51
Max. Luminaires per 20A C Breaker	66

Lifetime data

Lumen maintenance - L70 B50	50000
Lumen maintenance - L70 B20	38000
Lumen maintenance - L70 B10	35000

START DOWNLIGHT IP44 225

ST Downlight 225 IP44 DALI 2350Lm 840 ME
0030426

Lumen maintenance - L80 B50	28000
Lumen maintenance - L80 B20	24000
Lumen maintenance - L80 B10	22000
Lumen maintenance - L90 B50	14000
Lumen maintenance - L90 B20	11000
Lumen maintenance - L90 B10	10000
Average life (Nominal) (h)	50000

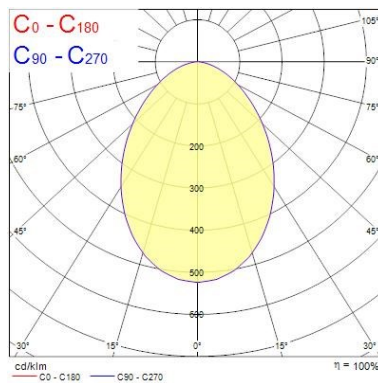
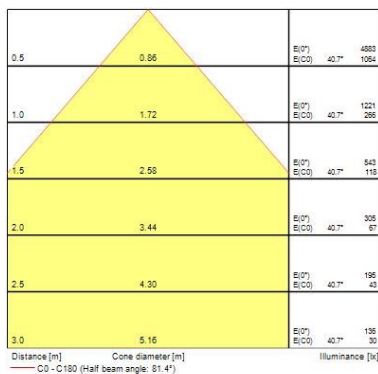
Physical data

Housing colour	RAL 9003 - Signal white
IP rating	IP44
IK rating	IK07
Diffuser finish	Opal
Diffuser material	PC Polycarbonate
Reflector finish	High-gloss
Nominal Product Length (mm)	240
Nominal Product Width (mm)	240
Nominal Product Height (mm)	65
Nominal Product Diameter (mm)	240
Weight (kg)	0.849
Recessed Depth (mm)	65

Packaging

Single packaging type	Carton
Packaging single length / height (cm)	27.6
Packaging single width (cm)	27.3
Packaging single depth (cm)	8.1
DUN14 (outer)	15410288303397
Units per outer package	12
Packaging outer length / height (cm)	27.6
Packaging outer width (cm)	27.3
Packaging outer depth (cm)	8.1

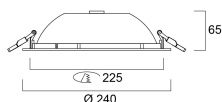
PHOTOMETRY



START DOWNLIGHT IP44 225

ST Downlight 225 IP44 DALI 2350Lm 840 ME
0030426

TECHNICAL DRAWINGS



SYLVANIA 0030426



This luminaire contains built-in LED lamps

A⁺⁺

A⁺

A

B

C

D

E

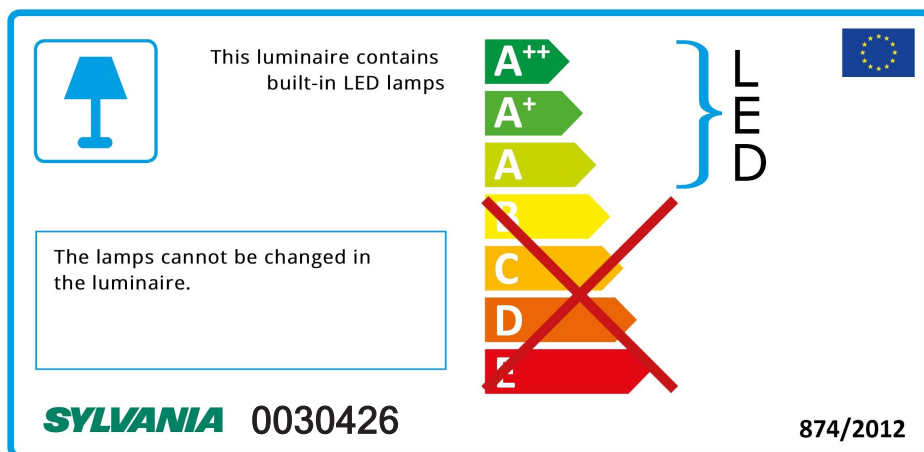
} LED

The lamps cannot be changed in the luminaire.

874/2012 

START DOWNLIGHT IP44 225

ST Downlight 225 IP44 DALI 2350Lm 840 ME
0030426



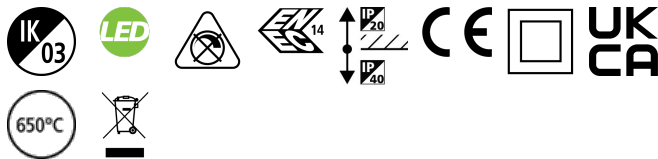
START Panel Flat UGR19 600x600

ST Panel Flat UGR19 600 3500Lm 840 ME
0030427



Product features

- Edge lit LED flat panel with low glare (UGR<19). Low Flicker, 36 W, Neutral White, 4000 K, 3500 lumens, 97 lm/W, 50000 hours lifetime (L70), prismatic diffuser, aluminium frame, steel body, electronic non dimmable driver. (HxWxD) 9.5 x 595 x 595 mm



PRODUCT OVERVIEW

IPC Code	0030427
Product name	ST Panel Flat UGR19 600 3500Lm 840 ME
Technology	LED
Housing	Aluminium
Mount	Ceiling recessed mounting, Ceiling surface mounting, Suspended
Environment	Interior
General application	Office
ETIM Class	EC002892
E-number FI	4276948
Fixture luminous flux (lm)	3,500
Luminaire efficacy (lm/W)	97
Colour temperature (K)	4000
Light colour	Neutral White
CRI (Ra)	>80
Colour Variation Initial (SDCM)	SDCM3
Beam Angle (°)	90
Glare control	< 19
Photobiological Risk Group	RG0
Total power consumption (W)	36
Electrical protection	Class II
Control gear type	LED driver constant current
Dimmable	No
LED Flickering Rate	Ultra low (5% or less)
Average life (Nominal) (h)	50000
Housing colour	RAL 9003 - Signal white
IP rating	IP40/20
IK rating	IK03

DATA TABLE

General data

IPC Code	0030427
Product name	ST Panel Flat UGR19 600 3500Lm 840 ME
Technology	LED

START Panel Flat UGR19 600x600

ST Panel Flat UGR19 600 3500Lm 840 ME
0030427

Housing	Aluminium
Mount	Ceiling recessed mounting, Ceiling surface mounting, Suspended
Environment	Interior
General application	Office
Operating temperature range (°C)	-20°C - 40°C
ETIM Class	EC002892
E-number FI	4276948

Optical data

Fixture luminous flux (lm)	3,500
Luminaire efficacy (lm/W)	97
Colour temperature (K)	4000
Light colour	Neutral White
CRI (Ra)	>80
Colour Variation Initial (SDCM)	SDCM3
Beam Angle (°)	90
Distribution type	Symmetric
Glare control	< 19
Photobiological Risk Group	RG0

Electrical data

Total power consumption (W)	36
Mains voltage (V)	220-240V~
Lamp power factor	>0.9
THD (at 230 V, 50 Hz, full load, at 100% dimming level) xx.x %	10
Electrical protection	Class II
Control gear type	LED driver constant current
Dimmable	No
Drive current (mA)	930
Inrush Current (A)	10
Inrush Duration (µs)	100
Glow Wire Test (°C)	650
Nominal Frequency (Hz)	50/60Hz
LED Flickering Rate	Ultra low (5% or less)
Max. Luminaires per 10A C Breaker	60
Max. Luminaires per 13A C Breaker	75
Max. Luminaires per 16A C Breaker	95
Max. Luminaires per 20A C Breaker	120

Lifetime data

Lumen maintenance - L70 B50	50000
Lumen maintenance - L80 B50	30000
Lumen maintenance - L90 B50	20000
Average life (Nominal) (h)	50000

Physical data

Housing colour	RAL 9003 - Signal white
IP rating	IP40/20

START Panel Flat UGR19 600x600

ST Panel Flat UGR19 600 3500Lm 840 ME
0030427

IK rating	IK03
Diffuser finish	Prismatic
Nominal Product Length (mm)	595
Nominal Product Width (mm)	595
Nominal Product Height (mm)	9.5
Weight (kg)	2.653
Maximum Surface Load (Kg)	20
Recessed Depth (mm)	38

Packaging

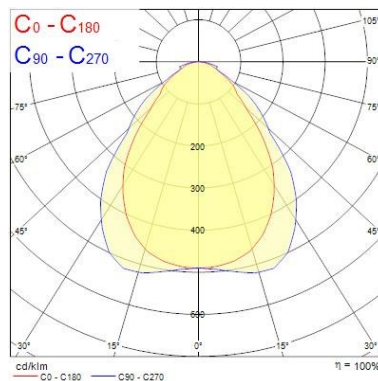
Single packaging type	Carton
Packaging single length / height (cm)	63.0
Packaging single width (cm)	4.4
Packaging single depth (cm)	67.5
DUN14 (outer)	15410288472277
Units per outer package	2
Packaging outer length / height (cm)	65.0
Packaging outer width (cm)	10.8
Packaging outer depth (cm)	69.5

PHOTOMETRY

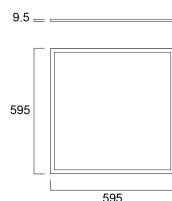
0.5	0.96 0.82	E(0°) 8755 E(C90) 1345 E(C0) 1561
1.0	1.92 1.64	E(0°) 1889 E(C90) 336 E(C0) 395
1.5	2.89 2.46	E(0°) 751 E(C90) 149 E(C0) 173
2.0	3.85 3.29	E(0°) 422 E(C90) 84 E(C0) 98
2.5	4.81 4.11	E(0°) 270 E(C90) 54 E(C0) 62
3.0	5.77 4.93	E(0°) 188 E(C90) 37 E(C0) 43

Distance [m] Cone diameter [m] Illuminance [lx]

— C0 - C180 (Half beam angle: 78.8°)
— C90 - C270 (Half beam angle: 87.8°)



TECHNICAL DRAWINGS



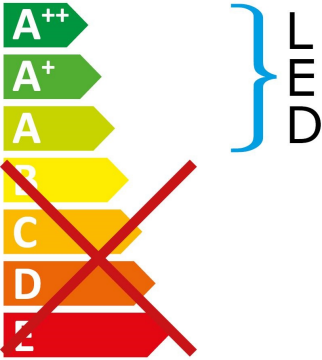
START Panel Flat UGR19 600x600

ST Panel Flat UGR19 600 3500Lm 840 ME
0030427

SYLVANIA 0030427



This luminaire contains built-in LED lamps

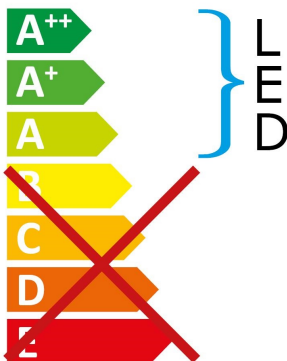


The lamps cannot be changed in the luminaire.

874/2012 



This luminaire contains built-in LED lamps



The lamps cannot be changed in the luminaire.

SYLVANIA 0030427 

874/2012

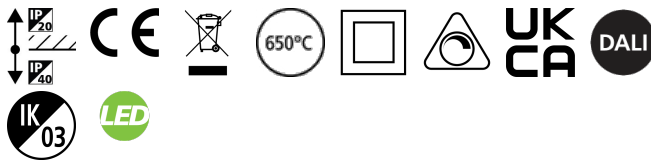
START Panel Flat UGR19 600x600

ST Panel Flat UGR19 600 DALI 3500 840 ME
0030428



Product features

- Edge lit LED flat panel with low glare (UGR<19). Low Flicker, 36 W, Neutral White, 4000 K, 3500 lumens, 97lm/W, 50000 hours lifetime (L70), prismatic diffuser, aluminium frame, steel body, (HxWxD) 9.5 x 595 x 595 mm



PRODUCT OVERVIEW

IPC Code	0030428
Product name	ST Panel Flat UGR19 600 DALI 3500 840 ME
Technology	LED
Housing	Aluminium
Mount	Ceiling recessed mounting, Ceiling surface mounting, Suspended
Environment	Interior
General application	Office
ETIM Class	EC002892
E-number FI	4276958
Fixture luminous flux (lm)	3500
Luminaire efficacy (lm/W)	97
Colour temperature (K)	4000
Light colour	Neutral White
CRI (Ra)	>80
Colour Variation Initial (SDCM)	SDCM3
Beam Angle (°)	90
Glare control	< 19
Photobiological Risk Group	RG0
Total power consumption (W)	35
Electrical protection	Class II
Control gear type	Electronic ballast
Dimmable	Dali
Minimum dimming level (%)	1
LED Flickering Rate	Ultra low (5% or less)
Average life (Nominal) (h)	50000
Housing colour	RAL 9003 - Signal white
IP rating	IP40/20
IK rating	IK03

DATA TABLE

General data

IPC Code	0030428
Product name	ST Panel Flat UGR19 600 DALI 3500 840 ME

START Panel Flat UGR19 600x600

ST Panel Flat UGR19 600 DALI 3500 840 ME

0030428

Technology	LED
Housing	Aluminium
Mount	Ceiling recessed mounting, Ceiling surface mounting, Suspended
Environment	Interior
General application	Office
Operating temperature range (°C)	-20°C - 40°C
ETIM Class	EC002892
E-number FI	4276958

Optical data

Fixture luminous flux (lm)	3500
Luminaire efficacy (lm/W)	97
Colour temperature (K)	4000
Light colour	Neutral White
CRI (Ra)	>80
Colour Variation Initial (SDCM)	SDCM3
Beam Angle (°)	90
Distribution type	Symmetric
Glare control	< 19
Photobiological Risk Group	RG0

Electrical data

Total power consumption (W)	48
Mains voltage (V)	220-240V~
Lamp power factor	0.97
THD (at 230 V, 50 Hz, full load, at 100% dimming level) xx.x %	10
Electrical protection	Class II
Control gear type	Electronic ballast
Dimmable	Yes
Minimum dimming level (%)	1
Drive current (mA)	1120
Inrush Current (A)	26
Inrush Duration (µs)	264
Glow Wire Test (°C)	650
Nominal Frequency (Hz)	50/60Hz
LED Flickering Rate	Ultra low (5% or less)
Max. Luminaires per 10A C Breaker	16
Max. Luminaires per 13A C Breaker	21
Max. Luminaires per 16A C Breaker	26
Max. Luminaires per 20A C Breaker	35
Max. Luminaires per 10A B Breaker	10
Max. Luminaires per 13A B Breaker	13
Max. Luminaires per 16A B Breaker	16
Max. Luminaires per 20A B Breaker	21

Lifetime data

Lumen maintenance - L70 B50	50000
Lumen maintenance - L80 B50	30000
Lumen maintenance - L90 B50	20000

START Panel Flat UGR19 600x600

ST Panel Flat UGR19 600 DALI 3500 840 ME
0030428

Average life (Nominal) (h) 50000

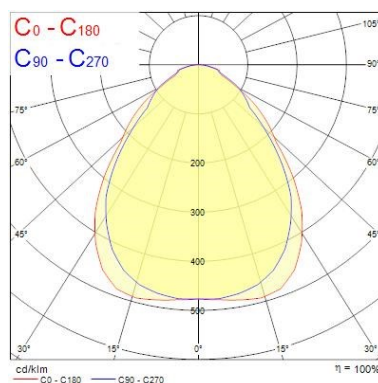
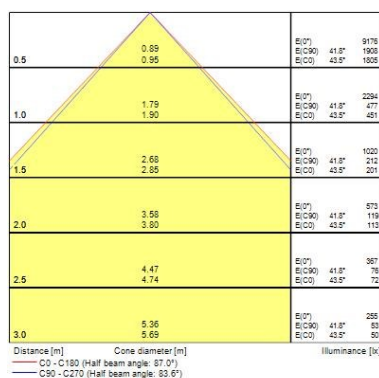
Physical data

Housing colour	RAL 9003 - Signal white
IP rating	IP40/20
IK rating	IK03
Diffuser finish	Prismatic
Nominal Product Length (mm)	595
Nominal Product Width (mm)	595
Nominal Product Height (mm)	9.5
Weight (kg)	2.653
Recessed Depth (mm)	38

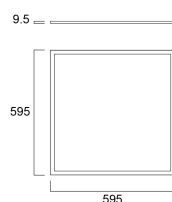
Packaging

Single packaging type	Carton
Packaging single length / height (cm)	63.0
Packaging single width (cm)	4.4
Packaging single depth (cm)	67.5
DUN14 (outer)	15410288472376
Units per outer package	2
Packaging outer length / height (cm)	65.0
Packaging outer width (cm)	10.8
Packaging outer depth (cm)	69.5

PHOTOMETRY



TECHNICAL DRAWINGS



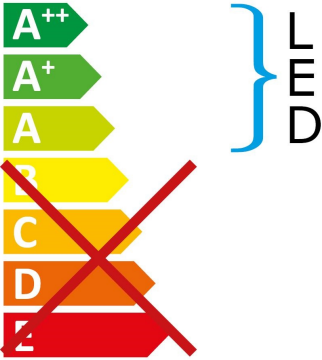
START Panel Flat UGR19 600x600

ST Panel Flat UGR19 600 DALI 3500 840 ME
0030428

SYLVANIA 0030428



This luminaire contains built-in LED lamps

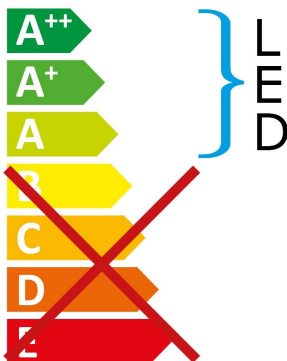


The lamps cannot be changed in the luminaire.

874/2012




This luminaire contains built-in LED lamps



The lamps cannot be changed in the luminaire.

SYLVANIA 0030428

874/2012


Start Waterproof LED G3 fixed output

START Waterproof Twin 1200 IP65 5000lm 840
0067044



Product features

- Start Waterproof, integrated LED weatherproof luminaire, with UV stabilized flat diffuser and linear prisms designed to achieve uniform lit appearance, optimise light output and to reduce glare, 301 stainless steel diffuser clips and fixing brackets for surface mounting. Polycarbonate housing, Polycarbonate diffuser, 5000 lm, 40 W, 125 lm/W, 4000 K, drive current 1050 mA, Non dimmable, CRI80, IP65, IK08, Class I, nominal average life (h):50000, 1278 mm x 110 mm x 78 mm ,energy class: A++ A+ A, D-mark



PRODUCT OVERVIEW

IPC Code	0067044
Product name	START Waterproof Twin 1200 IP65 5000lm 840
Technology	LED
Housing	PC Polycarbonate
Fixture rating	Enclosed
General application	Logistics & Industry
ETIM Class	EC002892
Colour Variation Initial (SDCM)	SDCM5
Fixture luminous flux (lm)	5000
Luminaire efficacy (lm/W)	125
Colour temperature (K)	4000
Light colour	Neutral White
CRI (Ra)	>80
Glare control	< 25
Photobiological Risk Group	RG0
Total power consumption (W)	40
Electrical protection	Class I
Dimmable	No
Average life (Nominal) (h)	50000
Housing colour	Grey
IP rating	IP65
IK rating	IK08

DATA TABLE

General data

IPC Code	0067044
Product name	START Waterproof Twin 1200 IP65 5000lm 840
Technology	LED
Housing	PC Polycarbonate
Fixture rating	Enclosed
General application	Logistics & Industry

Start Waterproof LED G3 fixed output

START Waterproof Twin 1200 IP65 5000lm 840
0067044

Operating temperature range (°C)	-20°C - 40°C
ETIM Class	EC002892
E-number FI	4306948

Optical data

Fixture luminous flux (lm)	5000
Luminaire efficacy (lm/W)	125
Colour temperature (K)	4000
Light colour	Neutral White
CRI (Ra)	>80
Colour Variation Initial (SDCM)	SDCM5
Glare control	< 25
Photobiological Risk Group	RG0

Electrical data

Total power consumption (W)	40
Mains voltage (V)	220-240V~
Lamp power factor	0.95
THD (at 230 V, 50 Hz, full load, at 100% dimming level) xx.x %	20
Electrical protection	Class I
Dimmable	No
Drive current (mA)	1050
Inrush Current (A)	13
Inrush Duration (µs)	50
Glow Wire Test (°C)	850
Nominal Frequency (Hz)	50/60Hz
Max. Luminaires per 10A C Breaker	20
Max. Luminaires per 13A C Breaker	30
Max. Luminaires per 16A C Breaker	40
Max. Luminaires per 20A C Breaker	50
Max. Luminaires per 10A B Breaker	16
Max. Luminaires per 13A B Breaker	24
Max. Luminaires per 16A B Breaker	32
Max. Luminaires per 20A B Breaker	40

Lifetime data

Lumen maintenance - L70 B50	60000
Lumen maintenance - L70 B20	60000
Lumen maintenance - L70 B10	60000
Lumen maintenance - L80 B50	60000
Lumen maintenance - L80 B20	60000
Lumen maintenance - L80 B10	60000
Lumen maintenance - L90 B50	59000
Lumen maintenance - L90 B20	53000
Lumen maintenance - L90 B10	50000
Average life (Nominal) (h)	50000

Physical data

Start Waterproof LED G3 fixed output
START Waterproof Twin 1200 IP65 5000lm 840
0067044

Housing colour	Grey
IP rating	IP65
IK rating	IK08
Diffuser finish	Transparent
Diffuser material	PC Polycarbonate
Nominal Product Length (mm)	1278
Nominal Product Width (mm)	110
Nominal Product Height (mm)	78
Weight (kg)	1.82

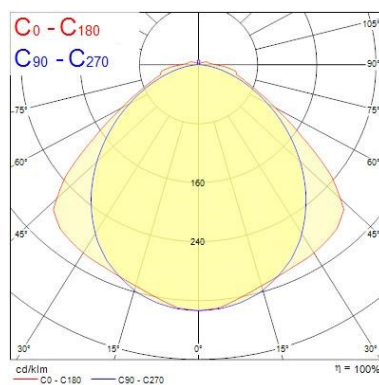
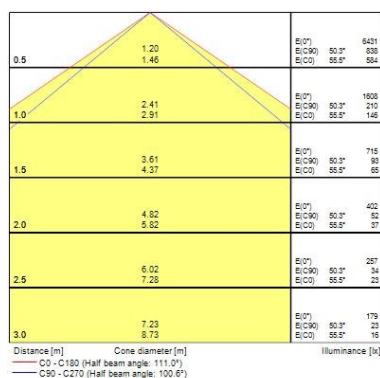
Packaging

Single packaging type	Carton
Packaging single length / height (cm)	137.2
Packaging single width (cm)	11.6
Packaging single depth (cm)	8.4
DUN14 (outer)	05410288679488
Units per outer package	1
Packaging outer length / height (cm)	137.2
Packaging outer width (cm)	11.6
Packaging outer depth (cm)	8.4

Safety data

Dry applications use only	No
---------------------------	----

PHOTOMETRY



TECHNICAL DRAWINGS

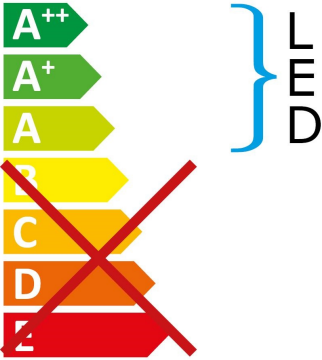


Start Waterproof LED G3 fixed output *START Waterproof Twin 1200 IP65 5000lm 840* 0067044

SYLVANIA 0067044



This luminaire contains built-in LED lamps

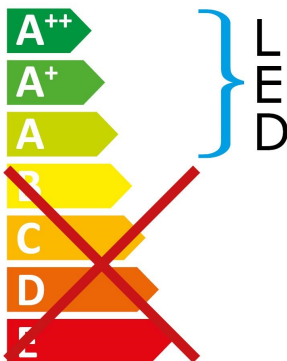


The lamps cannot be changed in the luminaire.

874/2012 



This luminaire contains built-in LED lamps



The lamps cannot be changed in the luminaire.

SYLVANIA 0067044 

874/2012

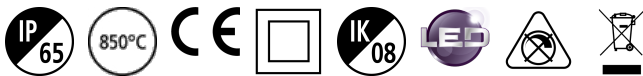
Start Bulkhead LED IP65 Oval

START Bulkhead Oval IP65 1875Lm 840 ME
0030429



Product features

- "LED exterior bulkhead, oval, comes with 2m cable, PC Polycarbonate body, 1875LM, 24W, 78lm/W, 4000K, Driver Current 135mA, CRI80, , non-dimmable, IP65, IK08, 50000hrs (L70),(LxWxD) 270*146*76



PRODUCT OVERVIEW

IPC Code	0030429
Product name	START Bulkhead Oval IP65 1875Lm 840 ME
Technology	LED
Housing	PC Polycarbonate
Mount	Ceiling surface mounting
Fixture rating	Enclosed
General application	Logistics & Industry, Residential & Consumer
Certifications	EUNEW009
ETIM Class	EC002892
E-number SE	7505125
Fixture luminous flux (lm)	1875
Luminous flux (lm)	1875
Luminaire efficacy (lm/W)	78
LOR (%)	100
Colour temperature (K)	4000
Light colour	Neutral White
CRI (Ra)	80
Colour Variation Initial (SDCM)	5
Photobiological Risk Group	RG1
Total power consumption (W)	24
Electrical protection	Class II
Dimmable	No
Housing colour	White
IP rating	IP65
IK rating	IK08
Product EAN number	5410288491806
Power Factor	>90

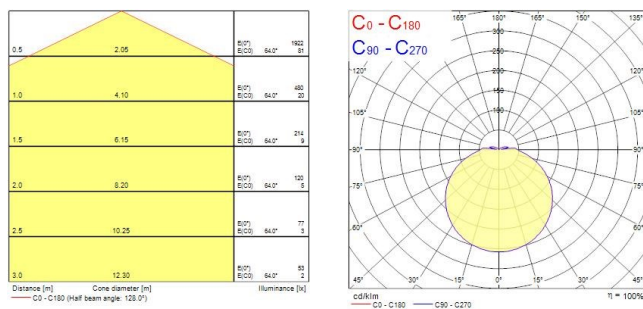
Start Bulkhead LED IP65 Oval

START Bulkhead Oval IP65 1875Lm 840 ME
0030429

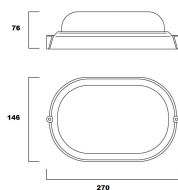
Physical data

Housing colour	White
IP rating	IP65
IK rating	IK08
Diffuser finish	Opal
Diffuser material	PC Polycarbonate
Nominal Product Length (mm)	76
Nominal Product Width (mm)	146
Nominal Product Height (mm)	270
Weight (kg)	0.98

PHOTOMETRY



TECHNICAL DRAWINGS



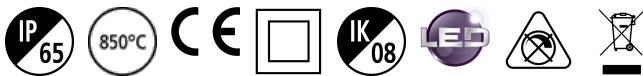
Start Bulkhead LED IP65 Oval

START Bulkhead Oval IP65 1280lm 840 ME
0030430



Product features

- "LED exterior bulkhead, oval, comes with 2m cable, PC Polycarbonate body, 1280LM, 16W, 80lm/W, 4000K, Driver Current 135mA, CRI80, , non-dimmable, IP65, IK08, 50000hrs (L70), (LxWxD) 215*114*62



PRODUCT OVERVIEW

IPC Code	0030430
Product name	START Bulkhead Oval IP65 1280lm 840 ME
Technology	LED
Housing	PC Polycarbonate
Mount	Ceiling surface mounting
Fixture rating	Enclosed
General application	Logistics & Industry, Residential & Consumer
Certifications	EUNEW009
ETIM Class	EC002892
E-number SE	7505125
Fixture luminous flux (lm)	1280
Luminous flux (lm)	1280
Luminaire efficacy (lm/W)	80
LOR (%)	100
Colour temperature (K)	4000
Light colour	Neutral White
CRI (Ra)	80
Colour Variation Initial (SDCM)	5
Photobiological Risk Group	RG1
Total power consumption (W)	16
Electrical protection	Class II
Dimmable	No
Housing colour	White
IP rating	IP65
IK rating	IK08
Product EAN number	5410288491806
Power factor	>90

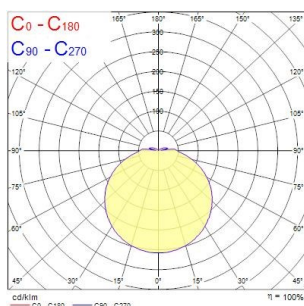
Start Bulkhead LED IP65 Oval

START Bulkhead Oval IP65 1280lm 840 ME
0030430

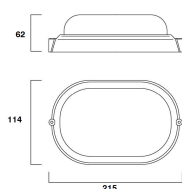
Physical data

Housing colour	White
IP rating	IP65
IK rating	IK08
Diffuser finish	Opal
Diffuser material	PC Polycarbonate
Nominal Product Length (mm)	62
Nominal Product Width (mm)	114
Nominal Product Height (mm)	215
Weight (kg)	0.98

PHOTOMETRY



TECHNICAL DRAWINGS



START Panel Flat 1200x600

START Panel Flat 1200x600 3400Lm 840 ME
0030431



Product features

- Edge lit LED flat panel. Low Flicker, 33W, Neutral White, 4000 K, 3400 lumens, 103 lm/W, 50000 hours lifetime (L70), Polycarbonate opal diffuser, aluminium frame, steel body, Dali dimmable driver. (HxWxD) 10.8 x 1195 x 595 mm



PRODUCT OVERVIEW

IPC Code	0030431
Product name	START Panel Flat 1200x600 3400Lm 840 ME
Technology	LED
Housing	Aluminium
Mount	Ceiling recessed mounting, Ceiling surface mounting, Suspended
Environment	Interior
General application	Office
ETIM Class	EC002892
E-number FI	4276944
Fixture luminous flux (lm)	3400
Luminaire efficacy (lm/W)	103
Colour temperature (K)	4000
Light colour	Neutral White
CRI (Ra)	>80
Colour Variation Initial (SDCM)	SDCM3
Beam Angle (°)	120
Photobiological Risk Group	RG0
Total power consumption (W)	33
Electrical protection	Class II
Control gear type	LED driver constant current
Dimmable	Dali
LED Flickering Rate	Ultra low (5% or less)
Average life (Nominal) (h)	50000
Housing colour	RAL 9003 - Signal white
IP rating	IP40/20
IK rating	IK03

DATA TABLE

General data

IPC Code	0030431
Product name	START Panel Flat 1200x600 3400Lm 840 ME
Technology	LED
Housing	Aluminium

START Panel Flat 1200x600

START Panel Flat 1200x600 3400Lm 840 ME

0030431

Mount	Ceiling recessed mounting, Ceiling surface mounting, Suspended
Environment	Interior
General application	Office
Operating temperature range (°C)	-20°C - 40°C
ETIM Class	EC002892
E-number FI	4276944

Optical data

Fixture luminous flux (lm)	3400
Luminaire efficacy (lm/W)	103
Colour temperature (K)	4000
Light colour	Neutral White
CRI (Ra)	>80
Colour Variation Initial (SDCM)	SDCM3
Beam Angle (°)	120
Distribution type	Symmetric
Photobiological Risk Group	RG0

Electrical data

Total power consumption (W)	33
Mains voltage (V)	220-240V~
Lamp power factor	>0.9
THD (at 230 V, 50 Hz, full load, at 100% dimming level) xx.x %	10
Electrical protection	Class II
Control gear type	LED driver constant current
Dimmable	Dali
Drive current (mA)	1400
Inrush Current (A)	20
Inrush Duration (µs)	100
Glow Wire Test (°C)	650
Nominal Frequency (Hz)	50/60Hz
LED Flickering Rate	Ultra low (5% or less)
Max. Luminaires per 10A C Breaker	40
Max. Luminaires per 13A C Breaker	50
Max. Luminaires per 16A C Breaker	60
Max. Luminaires per 20A C Breaker	80

Lifetime data

Lumen maintenance - L70 B50	50000
Lumen maintenance - L80 B50	30000
Lumen maintenance - L90 B50	20000
Average life (Nominal) (h)	50000

Physical data

Housing colour	RAL 9003 - Signal white
IP rating	IP40/20
IK rating	IK03
Nominal Product Length (mm)	1195

START Panel Flat 1200x600

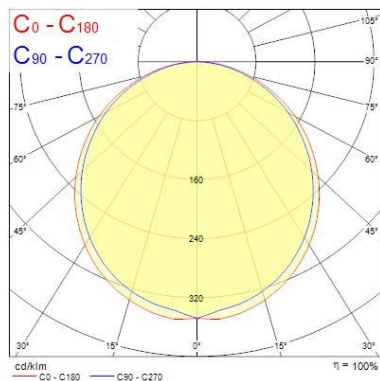
START Panel Flat 1200x600 3400Lm 840 ME
0030431

Nominal Product Width (mm)	595
Nominal Product Height (mm)	10.8
Weight (kg)	5.655
Maximum Surface Load (Kg)	30
Recessed Depth (mm)	39

Packaging

Single packaging type	Carton
Packaging single length / height (cm)	63.0
Packaging single width (cm)	4.4
Packaging single depth (cm)	127.5
DUN14 (outer)	15410288472239
Units per outer package	2
Packaging outer length / height (cm)	129.5
Packaging outer width (cm)	10.8
Packaging outer depth (cm)	65.0

PHOTOMETRY



Distance [m]	Cone diameter [m]	Beam angle [°]	Illuminance [lx]
0.5	1.40	113.0°	8509
1.0	2.80	113.0°	2127
1.5	4.21	113.0°	945
2.0	5.61	113.0°	532
2.5	7.01	113.0°	340
3.0	8.41	113.0°	236
0.5	1.51	109.0°	854
1.0	3.02	109.0°	209
1.5	4.53	109.0°	90
2.0	6.04	109.0°	45
2.5	7.55	109.0°	29
3.0	9.07	109.0°	20

TECHNICAL DRAWINGS



START Panel Flat 1200x600

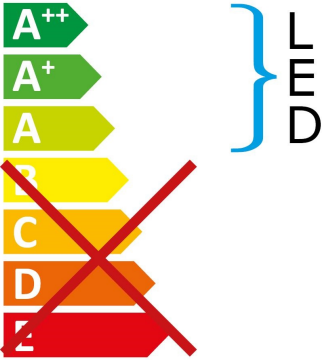
START Panel Flat 1200x600 3400Lm 840 ME

0030431

SYLVANIA 0030431



This luminaire contains built-in LED lamps

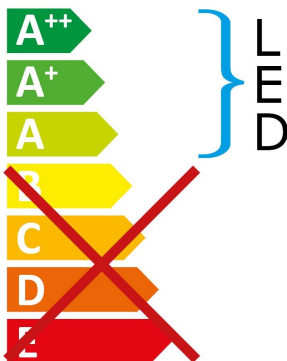


The lamps cannot be changed in the luminaire.

874/2012 



This luminaire contains built-in LED lamps



The lamps cannot be changed in the luminaire.

SYLVANIA 0030431 

874/2012

Ascent 100 II Arch 160

ASCENT 100 II ARCH 3700 4K DALI 160 + FLICKER FREE IP65
2699016



Product features

- The ASCENT 100 II ARCH 3700 4K DALI 160 + FLICKER FREE IP65 is a high efficient non dimmable downlight luminaire, luminous flux: 3766lm, luminaire efficacy: 126lm/W, Colour rendering index Ra >80, Colour temperature: 4000K Neutral White, Average life rated at 50,000Hrs, Class II, Protection rating IP65, Cut out dimensions: 178mm. Additional accessories of diffusers and plaster in available.



PRODUCT OVERVIEW

IPC Code	2699016
Product name	ASCENT 100 II ARCH 3700 4K DALI 160 + FLICKER FREE IP65
Technology	LED
Housing	Aluminium
Mount	Ceiling recessed mounting
General application	Hospitality, Retail, Office,
ETIM Class	EC001744
E-number FI	4260862
Fixture luminous flux (lm)	3766
Luminaire efficacy (lm/W)	126
LOR (%)	100
Colour temperature (K)	4000
CRI (Ra)	>80
Glare control	< 26
Photobiological Risk Group	RG0
Total power consumption (W)	30
Electrical protection	Class II
Control gear type	Electronic ballast
Colour Variation Initial (SDCM)	SDCM3
Dimmable	Dali
Housing colour	RAL 9016 - Traffic white / Bezel
IP rating	IP65
IK rating	IK02

DATA TABLE

General data

IPC Code	2699016
Product name	ASCENT 100 II ARCH 3700 4K DALI 160 + FLICKER FREE IP65
Technology	LED
Housing	Aluminium
Mount	Ceiling recessed mounting

Ascent 100 II Arch 160

ASCENT 100 II ARCH 3700 4K DALI 160 + FLICKER FREE IP65
2699016

General application	Hospitality, Retail, Office,
Operating temperature range (°C)	0°C - 25°C
ETIM Class	EC001744
E-number FI	4260862

Optical data

Fixture luminous flux (lm)	3766
Luminaire efficacy (lm/W)	126
LOR (%)	100
Colour temperature (K)	4000
CRI (Ra)	>80
Beam angle (Rated) (°)	85
Colour Variation Initial (SDCM)	SDCM3
Glare control	< 26
Photobiological Risk Group	RG0

Electrical data

Total power consumption (W)	30
Mains voltage (V)	220-240V~
Lamp power factor	0.95
THD (at 230 V, 50 Hz, full load, at 100% dimming level) xx.x %	19.9
Electrical protection	Class II
Control gear required	Yes
Control gear type	Electronic ballast
Control gear mounting	Remote
Dimmable	Dali
Drive current (mA)	1400
Inrush Current (A)	10
Inrush Duration (µs)	200
Glow Wire Test (°C)	650
Nominal Frequency (Hz)	50/60Hz
Max. Luminaires per 10A C Breaker	31
Max. Luminaires per 16A C Breaker	51

Lifetime data

Lumen maintenance - L70 B50	60000
Lumen maintenance - L70 B20	60000
Lumen maintenance - L70 B10	60000
Lumen maintenance - L80 B50	60000
Lumen maintenance - L80 B20	60000
Lumen maintenance - L80 B10	60000
Lumen maintenance - L90 B50	60000
Lumen maintenance - L90 B20	48000
Lumen maintenance - L90 B10	34000

Physical data

Housing colour	RAL 9016 - Traffic white / Bezel
IP rating	IP65

Ascent 100 II Arch 160

ASCENT 100 II ARCH 3700 4K DALI 160 + FLICKER FREE IP65
2699016

Concord 2699016

 This luminaire contains built-in LED lamps

A++
A+
A
B
C
D
E

} LED

The lamps cannot be changed in the luminaire.

874/2012 

 This luminaire contains built-in LED lamps

A++
A+
A
B
C
D
E

} LED

The lamps cannot be changed in the luminaire.

SYLVANIA 2699016

874/2012 

SYLVANIA



Although every effort has been made to ensure accuracy in the compilation of the technical detail within this publication, specifications and performance data are constantly changing. Current details should therefore be checked with Feilo Sylvania Europe Limited.

Copyright Feilo Sylvania Europe Limited February 2018

sylvania-lighting.com

A Feilo Sylvania Company

