

Features

- OPTIX SURFACE 1200x200 2 LINE 4000K C9 ALU DALI EM is a high efficacy low glare luminaire for office and education applications. Suitable for surface and suspended mounting. Size: 1129x200x45mm. Aluminised plastic extra low glare optics in 2 lines configuration. White RAL9016 fixture body. DALI dimmable. 3hr maintained emergency version. 4000K Neutral White LED, CRI>90, chromaticity tolerance of 3-step MacAdam ellipse. Luminous flux 3700lm. Power consumption 32W. Luminaire efficacy 116lm/W. Lifespan: 60,000 hours L90B10. UGR<16, Luminance at 65°<200 Cd/m2, IK07, IP20. Photobiological safety risk group 0. Electrical protection Class I. Glow wire test 850°C.

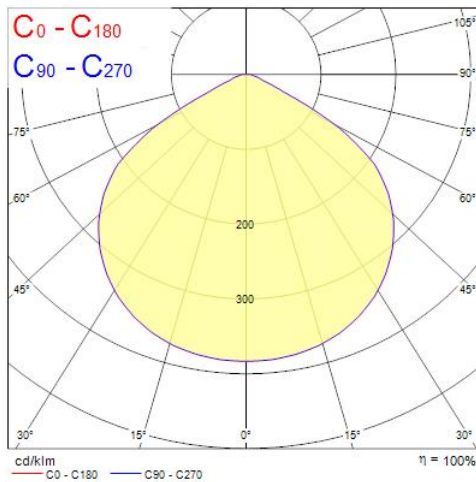
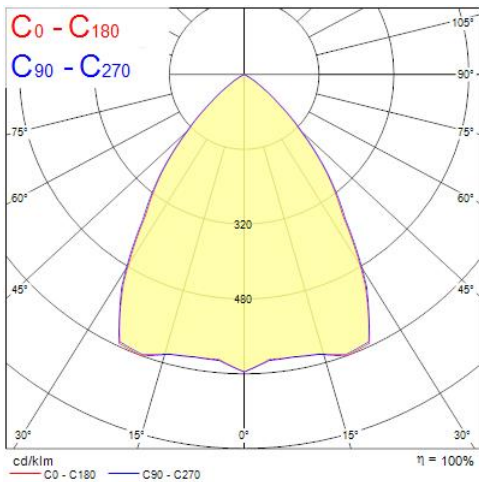
Product Overview

Product name	OPTIX SURFACE 1200x200 2 LINE 4000K C9 ALU DALI EM
Technology	LED (3 SDCM)
Cap/Base	N/A
Housing	Steel
Mount	Ceiling surface mounting
Fixture rating	Enclosed
General application	Education, Office
ETIM Class	EC002892
Fixture luminous flux (lm)	3700
Luminaire efficacy (lm/W)	116
Correlated colour temperature (k)	4000
Light colour	Neutral White
CRI (Ra)	90
Colour Variation Initial (SDCM)	3
Glare control	< 16

OPTIX SURFACE 1200x200 2 LINE 4000K C9 ALU DALI EM 2023711

Photobiological Risk Group	RG0
Luminous flux (emergency) (lm)	85
Total power consumption (W)	32
Electrical protection	Class I
Control gear type	LED driver constant current
Dimmable	Yes
LED Flickering Rate	Ultra low (5% or less)
Housing colour	RAL9016
IP rating	IP20
IK rating	IK07
Product EAN number	5025768237111
Warranty	5 years
Dimming method	DALI

Photometry



Distance [m]	Cone diameter [m]	E(0°)	E(C90)	E(C0)	Illuminance [lx]
0.5	0.78 0.77	9411	2308	2374	
1.0	1.56 1.53	2353	577	594	
1.5	2.34 2.30	1046	296	264	
2.0	3.13 3.07	598	144	148	
2.5	3.91 3.84	376	92	95	
3.0	4.69 4.60	281	64	66	

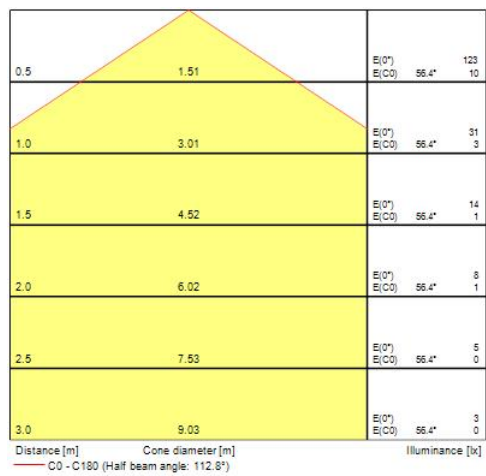
Distance [m] Cone diameter [m]

— C0 - C180 (Half beam angle: 75.0°)

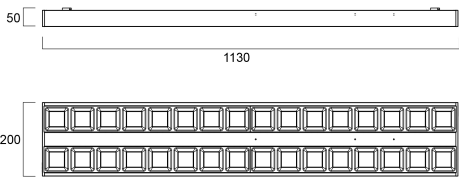
— C90 - C270 (Half beam angle: 76.0°)

Illuminance [lx]

OPTIX SURFACE 1200x200 2 LINE 4000K C9 ALU DALI EM 2023711



Technical drawings



Data table

GENERAL DATA

Product name	OPTIX SURFACE 1200x200 2 LINE 4000K C9 ALU DALI EM
Technology	LED (3 SDCM)
Cap/Base	N/A
Housing	Steel
Mount	Ceiling surface mounting
Fixture rating	Enclosed
General application	Education, Office
Operating temperature range (°C)	10°C...+25°C

OPTIX SURFACE 1200x200 2 LINE 4000K C9 ALU DALI EM 2023711

Performance ambient temperature Tq (°C)	25
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ETIM Class	EC002892
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Warranty	5 years
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OPTICAL DATA

Fixture luminous flux (lm)	3700
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Luminaire efficacy (lm/W)	116
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Correlated colour temperature (k)	4000
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Light colour	Neutral White
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CRI (Ra)	90
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Colour Variation Initial (SDCM)	3
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Distribution type	Symmetric
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Glare control	< 16
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Photobiological Risk Group	RG0
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Luminous flux (emergency) (lm)	85
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Emergency duration (h)	3
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ELECTRICAL DATA

Total power consumption (W)	32
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Primary Supply/Product voltage - min (V)	220
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Primary Supply/Product voltage - max (V)	240
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Lamp power factor	0.98
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THD (at 230 V, 50 Hz, full load, at 100% dimming level) ≤ xx.x %	9
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Electrical protection	Class I
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Control gear required	No
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Control gear type	LED driver constant current
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Dimmable	Yes
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Dimming method	DALI
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Drive current (mA)	225
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Inrush Current (A)	29
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Inrush Duration (µs)	180
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OPTIX SURFACE 1200x200 2 LINE 4000K C9 ALU DALI EM 2023711

Energy Efficiency Class (A->G) of contained light source	D
Nominal Frequency (Hz)	50/60Hz
LED Flickering Rate	Ultra low (5% or less)
Max. products per 10A C Breaker	21
Max. products per 13A C Breaker	28
Max. products per 16A C Breaker	36
Max. products per 20A C Breaker	45
Max. products per 10A B Breaker	13
Max. products per 13A B Breaker	17
Max. products per 16A B Breaker	22
Max. products per 20A B Breaker	27
Connectable conductor cross section - Min (mm²)	2.5
Connectable conductor cross section - Max (mm²)	2.5

LIFETIME DATA

Lifespan L70 B50	120000
Lifespan L80 B20	120000
Lifespan L90 B10	60000

PHYSICAL DATA

Housing colour	RAL9016
IP rating	IP20
IK rating	IK07
Diffuser finish	Matt/satinized
Diffuser material	PC Polycarbonate
Nominal Product Length (mm)	1129
Nominal Product Width (mm)	200
Nominal Product Height (mm)	45
Weight (kg)	5.0

PACKAGING

OPTIX SURFACE 1200x200 2 LINE 4000K C9 ALU DALI EM 2023711

Product EAN number	5025768237111
Packaging single length / height (cm)	117.0
Packaging single width (cm)	22.5
Packaging single depth (cm)	6.8
DUN14 (inner)	05025768237111
Units per outer package	1
Packaging outer length / height (cm)	117.0
Packaging outer width (cm)	22.5
Packaging outer depth (cm)	6.8

SAFETY DATA

Glow Wire Test (°C)	850
Optimal operating condition (°C)	10-25
Special purpose lamp	No
Dry applications use only	No
Suitable for household illumination	No