Optus_T

Projectors | 176-264 V | 1 arrayLED 16 W DC - 18 W AC | CRI 98
77051N15
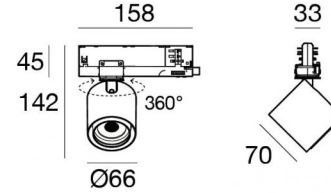
Technical data

Type	Track
Installation position	Ceiling
Installation environment	Indoor
Light Source	LED
Circuit structure	arrayLED
Optics	Spot
Light emission direction	frontal
Nominal power	16 W DC
Total Power	18 W
Source lumens	2406 lm
Nominal input voltage	220 - 240 V AC
Input voltage range	176 - 264 V AC
Frequency	50 - 60 Hz
CCT / Tone	4000 K
Colour rendering index	98 Ra
C.C. / C.V.	AC
Safety class	2
IP	IP20
Glow wire test	850°
Direct mounting on normally flammable surfaces	Yes
CE	Yes
Driver included	Driver
Dimmable article	No
Directional	Swivelling
total angle (vertical plane)	90 °
total angle (horizontal plane)	360 °
Tilting	No
Walk-over	No
Drive-over	No
Cable included	No
Resin potting	No
Type of light emission	Single emission
Net weight	0.412 Kg
Electrostatic discharge protection	Yes
Surge protection	2 KV

Finishing casing

Material	Die-cast Aluminium EN AB - 46100
Colour	Black
Processing	Powder coating

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Projectors | 176-264 V | 1 arrayLED 16 W DC - 18 W AC | CRI 98 | Base
77051N15

Single emission projectors for indoor application. The natural white LED light source with a spot light distribution is composed of 1 arrayled LEDs with CCT of 4000 K and a CRI 98; the source luminous flux is 2406 lm, with a 150.4 lm/W nominal luminous efficacy.

The device body is made of die-cast aluminium en ab - 46100 and features a black finish, processed by means of powder coating. The ingress protection degree is IP20; the total weight is of 0.412 kg.

The total absorbed power is 18 W.

The device features protection class II and can be ceiling-mounted.

Compliant with the EN 60598-1 standard and its specific provisions.

Energy efficiency class

This product contains a light source of energy efficiency class F.

Illuminotechnical Features

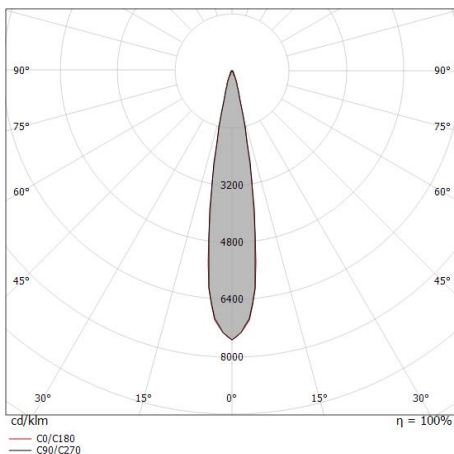|	
Light Output Ratio (LOR)	68 %
Source lumens	2406 lm
Delivered lumens	1647 lm
Consumption	18 W
Luminaire efficacy	91 lm/W
Colour temperature	4000 K
Standard Deviation of Colour Matching	2 Step MacAdam
Colour rendering index	98 Ra
Black Body Locus	On
Standard Operating Ambient Temperature	-20 / +50°C
Ordinary temperature on the glass	40°C

LED Life / Failure Ratio

L70 B10 C0 252000h (at Tj 65 Ta 25)

UGR

UGR axial	17.7
UGR transversal	17.8
X=4H	Y=8H	S=0.25H
Reflection factor	70/50/20

OPTICAL

C0/C180 optics	18°
Light distribution simmetry	Symmetrical

cd/klm
η = 100%
— C0/C180
— C90/C270

COLOR VECTOR GRAPHIC

	E(0°)		49583	
0.5	E(C90)	9.2°	23892	
	E(C0)	9.1°	24275	
	E(0°)		12396	
1.0	E(C90)	9.2°	5973	
	E(C0)	9.1°	6069	
	E(0°)		5509	
1.5	E(C90)	9.2°	2655	
	E(C0)	9.1°	2697	
	E(0°)		3099	
2.0	E(C90)	9.2°	1493	
	E(C0)	9.1°	1517	
	E(0°)		1983	
2.5	E(C90)	9.2°	956	
	E(C0)	9.1°	971	
	E(0°)		1377	
3.0	E(C90)	9.2°	664	
	E(C0)	9.1°	674	

Cone diameters:
0.5: 0.15 / 0.16
1.0: 0.32 / 0.32
1.5: 0.49 / 0.48
2.0: 0.65 / 0.64
2.5: 0.81 / 0.80
3.0: 0.97 / 0.96

Distance [m]   Cone diameter [m]   Illuminance [lx]
— C0/C180 (Half-peak divergence: 18.2°)
— C90/C270 (Half-peak divergence: 18.4°)

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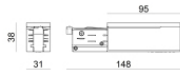**77051N15**
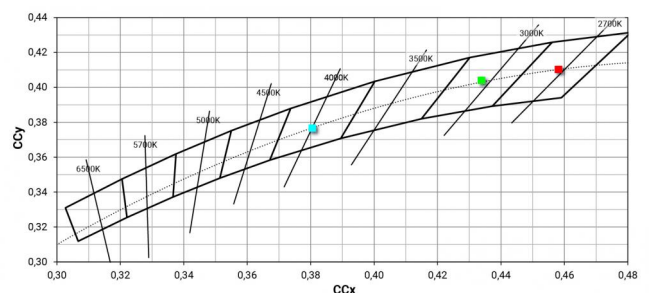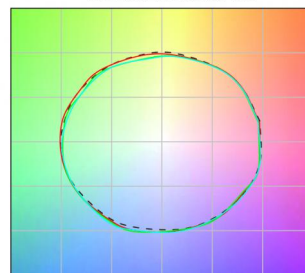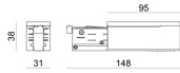
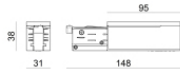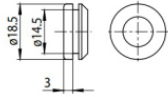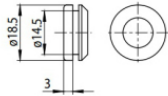|			Code
	Power supply - White Right power supply header (9001/W) Material:PC, colour:white.		**81033**
	Power supply - White left power supply header (9002/W) Material:PC, colour:white.		**81036**
	Power supply - Black left power supply header (9002/B) Material:PC, colour:black.		**81037**
	Power supply - Black Right power supply header (9001/B) Material:PC, colour:black.		**81034**
	Closing cap - White end cap 9004/W Material:PC, colour:white.		**80999**
	Closing cap - Black end cap 9004/B Material:PC, colour:black.		**81000**
	Closing cap - Recessed white end cap 9004-R/W Material:PC, colour:white.		**81002**
	Closing cap - Recessed black end cap 9004-R/B Material:PC, colour:black.		**81003**
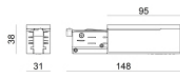
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Closing cap - White gasket (S-9001/115-W)
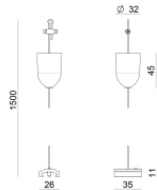Material:white.

Code
81084

Closing cap - Black gasket (S-9001/115-B)
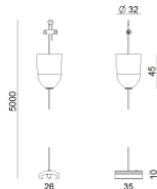Material:black, colour:black.

Code
81085

Ceiling rose - 1.5m white pendant luminaires kit + bracket (9000-KIT5-1,5-W)
Material:plastic, colour:white.

Code
81012

Ceiling rose - 1.5m black pendant luminaires kit + bracket ((9000-KIT5-1,5-B)
Material:plastic, colour:black.

Code
81014

Ceiling rose - 5m white pendant luminaires kit + bracket (9000-KIT5-5-W)
Material:plastic, colour:white.

Code
81013

Ceiling rose - 5m black pendant luminaires kit + bracket (9000-KIT5-5-B)
Material:plastic, colour:black.

Code
81015

Bracket - Anodized fixing bracket (S-9000/131)
 L=35mm, H=14mm, D=24mm.
Material:Aluminium, colour:translucent.

Finish
Anod. Al.

Code
81086

Bracket - Anodized stiffening bracket (S-9000/333)
 L=180mm, H=24mm, D=26mm.
Material:Aluminium, colour:Anodised Aluminum, processing:Anodisation.

Finish

Code
81024

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		Finish	Code
	Bracket - White stiffening bracket (S-9000/333-W) L=180mm, H=24mm, D=20mm. Material:Aluminium, colour:white RAL 9010, processing:Coating.	White	81025
	Bracket - Black stiffening bracket (S-9000/333-B) L=180mm, H=24mm, D=20mm. Material:Aluminium, colour:black RAL 9005, processing:Coating.	Black	81026
	Bracket - White fixing braket (S-9000/131-W) L=35mm, H=14mm, D=24mm. Material:Aluminium, colour:white, processing:Coating.	White	81087
	Bracket - Black fixing braket (S-9000/131-B) L=35mm, H=14mm, D=24mm. Material:Aluminium, colour:Black, processing:Coating.	Black	81088
	Junction - White electrical junction - internal (9003/W) Type linear. Material:PC, colour:white.	White	81039
	Junction - Black electrical junction - internal (9003/B) Type linear. Material:PC, colour:black.	Black	81040
	Junction - White power supply junction - central (9010/W) Type linear. Material:PC, colour:white.	White	81042
	Junction - White L junction - internal (9011/W) Type linear. Material:PC, colour:white.	White	81045

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Junction - White L junction - external (9012/W)

Type linear.

Material:PC, colour:white.

Finish	Code
White	81048

Junction - Flexible white junction (9018/W)

Type flexible curve.

Material:PC, colour:white.

Finish	Code
White	81066

Junction - White X junction (9017/W)

Type linear.

Material:PC, colour:white.

Finish	Code
White	81063

Junction - Left white T junction - external (9013/W)

Type linear.

Material:PC, colour:white.

Finish	Code
White	81051

Junction - Right white T junction - external (9014/W)

Type linear.

Material:PC, colour:white.

Finish	Code
White	81054

Junction - Left white T junction - internal (9015/W)

Type linear.

Material:PC, colour:white.

Finish	Code
White	81057

Junction - Right White T junction - internal (9016/W)

Type linear.

Material:PC, colour:white.

Finish	Code
White	81060

Junction - Black power supply junction - centrale (9010/B)

Type linear.

Material:PC, colour:black.

Finish	Code
Black	81043

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			Finish	Code
	Junction - Black L junction - internal (9011/B) Type linear. Material:PC, colour:black.		Black	81046
	Junction - Black L junction - external (9012/B) Type linear. Material:PC, colour:black.		Black	81049
	Junction - Flexible black junction (9018/B) Type flexible curve. Material:PC, colour:black.		Black	81067
	Junction - Black X junction (9017/B) Type linear. Material:PC, colour:black.		Black	81064
	Junction - Black left T junction - external (9013/B) Type linear. Material:PC, colour:black.		Black	81052
	Junction - Right black T junction - external (9014/B) Type linear. Material:PC, colour:black.		Black	81055
	Junction - Left black T junction - internal (9015/B) Type linear. Material:PC, colour:black.		Black	81058
	Junction - Right black T junction - internal (9016/B) Type linear. Material:PC, colour:black.		Black	81061

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		Code
	Suspensions - 1.5m white pendant luminaires kit (9000-KIT3-1,5-W) Material:plastic, colour:white.	**Code** 81006
	Suspensions - 5m white pendant luminaires kit (9000-KIT3-5-W) Material:plastic, colour:white.	**Code** 81007
	Suspensions - 1.5m black pendant luminaires kit (9000-KIT3-1,5-B) Material:plastic, colour:black.	**Code** 81008
	Suspensions - 5m black pendant luminaires kit (9000-KIT3-5-B) Material:plastic, colour:black.	**Code** 81009
	Suspensions - White rigid suspension clip (S-9000-P2-W) Material:plastic, colour:white.	**Code** 81018
	Suspensions - Black rigid suspension clip (S-9000-P2-B) Material:plastic, colour:black.	**Code** 81019
	Suspensions - White rigid suspension 1m (S-9000-P3-W) Material:plastic, colour:white.	**Code** 81021
	Suspensions - Black rigid suspension 1m (S-9000-P3-B) Material:plastic, colour:black.	**Code** 81022

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		Cable cover - White recessed cover (S-9001-R/6-W) Material:PC, colour:white.	**Code** 81069
		Cable cover - White cover for recessed junction (S-9010-R/6-W) Material:PC, colour:white.	**Code** 81072
		Cable cover - White cover for recessed L junction (S-9011-R/6-W) Material:PC, colour:white.	**Code** 81075
		Cable cover - White cover for recessed T junction (S-9013-R/6-W) Material:PC, colour:white.	**Code** 81078
		Cable cover - White cover for recessed X junction (S-9017-R/6-W) Material:PC, colour:white.	**Code** 81081
		Cable cover - Black recessed cover (S-9001-R/6-B) Material:PC, colour:black.	**Code** 81070
		Cable cover - Black cover for recessed junction (S-9010-R/6-B) Material:PC, colour:black.	**Code** 81073
		Cable cover Material:PC, colour:black.	**Code** 81076

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			Code
		Cable cover - Black cover for recessed T junction (S-9013-R/6-B) Material:PC, colour:black.	81079
		Cable cover - Black cover for recessed X junction (S-9017-R/6-B) Material:PC, colour:black.	81082
		Cable cover Material:white.	83249
		Cable cover Material:black, colour:black.	83250
		White three-phase/DALI adapter (9009/W)	81094
		White three-phase adapter (9009-4/W)	81091
		Black three-phase/DALI adapter (9009/B)	81095
		Black trhee-phase adapter (9009-4/B)	81093

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		Tool - Cutter S-9000/T		**Code**
				81005

		Track - Three-phase Recessed White DALI Track, 1 m (9000-1/W-R) Length: 1000mm; Type of track: Standard. Material:Aluminium, colour:White, processing:Coating.	**Finish** White	**Code** 80990

		Track - Three-phase Recessed White DALI Track, 2 m (9000-2/W-R) Length: 2000mm; Type of track: Standard. Material:Aluminium, colour:White, processing:Coating.	**Finish** White	**Code** 80991

		Track - Trhee-phase Recessed White DALI Track, 3 m (9000-3/W-R) Length: 3000mm; Type of track: Standard. Material:Aluminium, colour:White, processing:Coating.	**Finish** White	**Code** 80992

		Track - Three-phase Recessed Grey DALI Track, 1 m (9000-1/B-R) Length: 1000mm; Type of track: Standard. Material:Aluminium, colour:Black, processing:Coating.	**Finish** Black	**Code** 80993

		Track - Three-phase Recessed Black DALI Track, 2 m (9000-1/B-R) Length: 2000mm; Type of track: Standard. Material:Aluminium, colour:Black, processing:Coating.	**Finish** Black	**Code** 80994

		Track - Three-phase Recessed Black DALI Track, 3 m (9000-3/B-R) Length: 3000mm; Type of track: Standard. Material:Aluminium, colour:Black, processing:Coating.	**Finish** Black	**Code** 80995

		Track Length: 1000mm; Type of track: Standard. Material:Aluminium, colour:White, processing:Coating.	**Finish** White	**Code** 83336

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			Finish	Code
	37.8 / 30.7 / 2000	**Track** Length: 2000mm; Type of track: Standard. Material:Aluminium, colour:White, processing:Coating.	White	83337
	37.8 / 30.7 / 3000	**Track** Length: 3000mm; Type of track: Standard. Material:Aluminium, colour:White, processing:Coating.	White	83338
	37.8 / 30.7 / 1000	**Track** Length: 1000mm; Type of track: Standard. Material:Aluminium, colour:Black, processing:Coating.	Black	83339
	37.8 / 30.7 / 2000	**Track** Length: 2000mm; Type of track: Standard. Material:Aluminium, colour:Black, processing:Coating.	Black	83340
	37.8 / 30.7 / 3000	**Track** Length: 3000mm; Type of track: Standard. Material:Aluminium, colour:Black, processing:Coating.	Black	83341
	3 / Ø35.5	**Anti-glare** - Accessory for focal kit with code 83347. Anti-glare Type: honeycomb louvre. Material:Pom-C, colour:Black.		99841
		Anti-glare Anti-glare Type: elliptical filter. Material:Pom-C, colour:Black.		83345
		Anti-glare Anti-glare Type: cross louvres. Material:Pom-C, colour:Black.		83344

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		Code
	Anti-glare Anti-glare Type: 45° cylindrical screen. Material:Pom-C, colour:Black.	83343
	Anti-glare Anti-glare Type: honeycomb louvre. Material:Pom-C, colour:Black.	83346
	Anti-glare Anti-glare Type: cylindrical screen. Material:Pom-C, colour:Black.	83342
	Optics Light distribution: spot,Cover material: uv resistant polycarbonate	83348
	Optics Light distribution: medium flood,Cover material: ,uv resistant polycarbonate,uv resistant polycarbonate,uv resistant polycarbonate	83349
	Optics Light distribution: adjustable,Cover material: ,aluminium	83347
	Optics Light distribution: flood,Cover material: ,uv resistant polycarbonate,uv resistant polycarbonate,uv resistant polycarbonate	83350

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