Optus_T

Projectors | 176-264 V AC /176-280 V DC
1 arrayLED 16 W DC - 18 W AC | CRI 98
77056N60

265   31
45
142   360°
Ø66   70
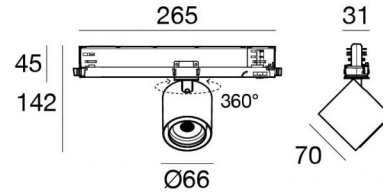
Technical data

Type	Track
Installation position	Ceiling
Installation environment	Indoor
Light Source	LED
Circuit structure	arrayLED
Optics	Wide Flood
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	DALI-2 - PUSH DIM
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	3 KV

Finishing casing

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

The driver contained in the device complies with IEC 61347-2-13 annex J, and can therefore be powered by centralized power systems.

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Projectors | 176-264 V AC /176-280 V DC | 1 arrayLED 16 W DC - 18 W AC | CRI 98 | Base
77056N60

Single emission projectors for indoor application. The natural white LED light source 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 white 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)	71 %
Source lumens	2406 lm
Delivered lumens	1730 lm
Consumption	18 W
Luminaire efficacy	96 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	20.3
UGR transversal	20.3
X=4H | Y=8H	S=0.25H
Reflection factor	70/50/20

OPTICAL

C0/C180 optics	49°
Light distribution simmetry	Symmetrical

cd/klm   η = 100%
— C0/C180
— C90/C270

COLOR VECTOR GRAPHIC
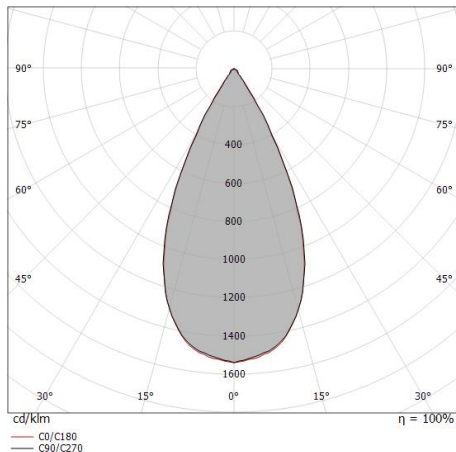
Distance [m]	Cone diameter [m]	Illuminance [lx]		
0.5	0.47 / 0.46	E(0°)		10648
		E(C90)	25.0°	3974
		E(C0)	24.7°	4024
1.0	0.93 / 0.92	E(0°)		2662
		E(C90)	25.0°	994
		E(C0)	24.7°	1006
1.5	1.40 / 1.38	E(0°)		1183
		E(C90)	25.0°	442
		E(C0)	24.7°	447
2.0	1.87 / 1.84	E(0°)		665
		E(C90)	25.0°	248
		E(C0)	24.7°	252
2.5	2.33 / 2.30	E(0°)		426
		E(C90)	25.0°	159
		E(C0)	24.7°	161
3.0	2.80 / 2.76	E(0°)		296
		E(C90)	25.0°	110
		E(C0)	24.7°	112

— C0/C180 (Half-peak divergence: 49.4°)
— C90/C270 (Half-peak divergence: 50.0°)

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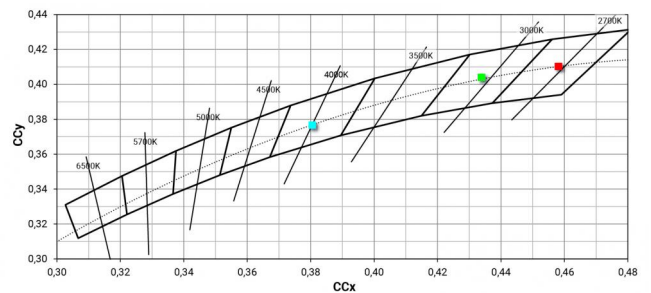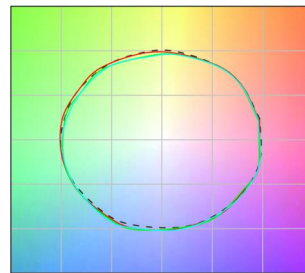
			Code
	Power supply - White Right power supply header (9001/W) Material:PC, colour:white.		**Code** 81033
	Power supply - White left power supply header (9002/W) Material:PC, colour:white.		**Code** 81036
	Power supply - Black left power supply header (9002/B) Material:PC, colour:black.		**Code** 81037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

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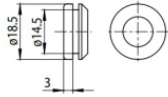
	Code
Closing cap - White gasket (S-9001/115-W) Material:white.	**Code** 81084
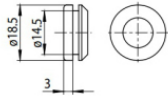
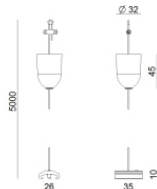|	Code
Closing cap - Black gasket (S-9001/115-B) Material:black, colour:black.	**Code** 81085

	Code
Ceiling rose - 1.5m white pendant luminaires kit + bracket (9000-KIT5-1,5-W) Material:plastic, colour:white.	**Code** 81012
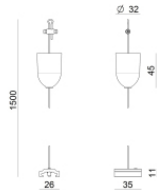
	Code
Ceiling rose - 1.5m black pendant luminaires kit + bracket ((9000-KIT5-1,5-B) Material:plastic, colour:black.	**Code** 81014

	Code
Ceiling rose - 5m white pendant luminaires kit + bracket (9000-KIT5-5-W) Material:plastic, colour:white.	**Code** 81013

	Code
Ceiling rose - 5m black pendant luminaires kit + bracket (9000-KIT5-5-B) Material:plastic, colour:black.	**Code** 81015

	Finish	Code
Bracket - Anodized fixing bracket (S-9000/131) L=35mm, H=14mm, D=24mm. Material:Aluminium, colour:translucent.	Anod. Al.	**Code** 81086

	Finish	Code
Bracket - Anodized stiffening bracket (S-9000/333) L=180mm, H=24mm, D=26mm. Material:Aluminium, colour:Anodised Aluminum, processing:Anodisation.		**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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	Finish	Code
Junction - White L junction - external (9012/W) Type linear. Material:PC, colour:white.	White	81048
Junction - Flexible white junction (9018/W) Type flexible curve. Material:PC, colour:white.	White	81066
Junction - White X junction (9017/W) Type linear. Material:PC, colour:white.	White	81063
Junction - Left white T junction - external (9013/W) Type linear. Material:PC, colour:white.	White	81051
Junction - Right white T junction - external (9014/W) Type linear. Material:PC, colour:white.	White	81054
Junction - Left white T junction - internal (9015/W) Type linear. Material:PC, colour:white.	White	81057
Junction - Right White T junction - internal (9016/W) Type linear. Material:PC, colour:white.	White	81060
Junction - Black power supply junction - centrale (9010/B) Type linear. Material:PC, colour:black.	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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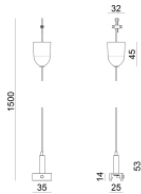**77056N60**

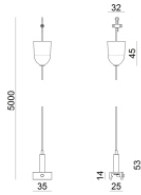|		Code
	Suspensions - 1.5m white pendant luminaires kit (9000-KIT3-1,5-W) Material:plastic, colour:white.	81006
	Suspensions - 5m white pendant luminaires kit (9000-KIT3-5-W) Material:plastic, colour:white.	81007
	Suspensions - 1.5m black pendant luminaires kit (9000-KIT3-1,5-B) Material:plastic, colour:black.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

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

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			Code
	Tool - Cutter S-9000/T		81005

			Finish	Code
	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.		White	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.		White	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.		White	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.		Black	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.		Black	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.		Black	80995
	Track Length: 1000mm; Type of track: Standard. Material:Aluminium, colour:White, processing:Coating.		White	83336

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			Finish	Code
	Track Length: 2000mm; Type of track: Standard. Material:Aluminium, colour:White, processing:Coating.		White	83337
	Track Length: 3000mm; Type of track: Standard. Material:Aluminium, colour:White, processing:Coating.		White	83338
	Track Length: 1000mm; Type of track: Standard. Material:Aluminium, colour:Black, processing:Coating.		Black	83339
	Track Length: 2000mm; Type of track: Standard. Material:Aluminium, colour:Black, processing:Coating.		Black	83340
	Track Length: 3000mm; Type of track: Standard. Material:Aluminium, colour:Black, processing:Coating.		Black	83341

		Code
	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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Anti-glare
Anti-glare Type: 45° cylindrical screen.
Material:Pom-C, colour:Black.

Code
83343

Anti-glare
Anti-glare Type: honeycomb louvre.
Material:Pom-C, colour:Black.

Code
83346

Anti-glare
Anti-glare Type: cylindrical screen.
Material:Pom-C, colour:Black.

Code
83342

Optics
Light distribution: spot,Cover material: uv resistant polycarbonate

Code
83348

Optics
Light distribution: medium flood,Cover material: ,uv resistant polycarbonate,uv resistant polycarbonate,uv resistant polycarbonate

Code
83349

Optics
Light distribution: adjustable,Cover material: ,aluminium

Code
83347

Optics
Light distribution: flood,Cover material: ,uv resistant polycarbonate,uv resistant polycarbonate,uv resistant polycarbonate

Code
83350

Electronic accessory - TWIL-DALI controller for devices with DALI protocol installed on three-phase track.
installation position: ceiling L=90mm, H=124mm, D=45mm.
Material:ABS Plastic, colour:black.

Code
C-E700008

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