Pound_Focus
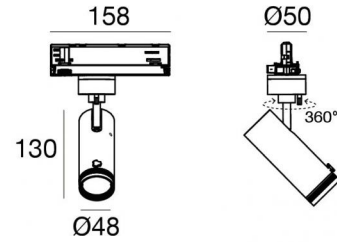
Projectors | 198-264 V
1 arrayLED 13 W DC - 15.5 W AC | CRI 90
82105N85

Technical data	
Type	Track
Installation position	Ceiling
Installation environment	Indoor
Light Source	LED
Circuit structure	arrayLED
Optics	Adjustable Focus
Light emission direction	frontal
Nominal power	13 W DC
Total Power	15.5 W
Source lumens	1660 lm
Nominal input voltage	220 - 240 V AC
Input voltage range	198 - 264 V AC
Frequency	50 - 60 Hz
CCT / Tone	4000 K
Colour rendering index	90 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	Dimming on Board
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	0.39 Kg
Electrostatic discharge protection	Yes
Surge protection	2 KV

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

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Pound_Focus

Projectors | 198-264 V | 1 arrayLED 13 W DC - 15.5 W AC | CRI 90 | Angle Max
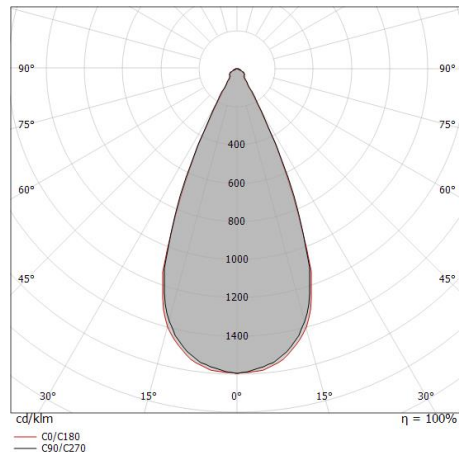**82105N85**

Single emission projectors for indoor application. The natural white LED light source with a adjustable focus light distribution is composed of 1 arrayled LEDs with CCT of 4000 K and a CRI 90; the source luminous flux is 1660 lm, with a 127.7 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 0.39 kg.

The total absorbed power is 15.5 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 E.

Illuminotechnical Features

Light Output Ratio (LOR)	30 %
Source lumens	1660 lm
Delivered lumens	514 lm
Consumption	15.5 W
Luminaire efficacy	33 lm/W
Colour temperature	4000 K
Standard Deviation of Colour Matching	2 Step MacAdam
Colour rendering index	90 Ra
Colour Rendering Index	60 R9
Black Body Locus	On
Standard Operating Ambient Temperature	-20 / +50°C
Ordinary temperature on the glass	40°C

LED Life / Failure Ratio
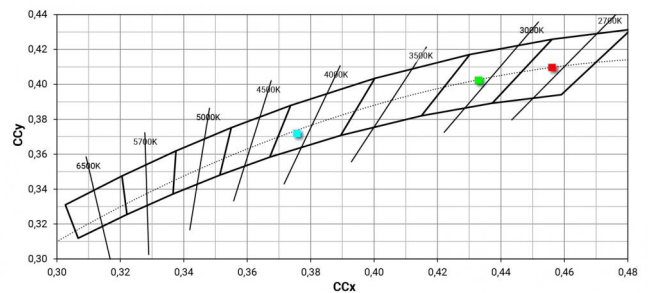
L70 B10 C0 252000h (at Tj 65 Ta 25)

UGR

UGR axial	23.1
UGR transversal	22.9
X=4H	Y=8H	S=0.25H
Reflection factor	70/50/20

OPTICAL

C0/C180 optics	46°
Light distribution simmetry	Symmetrical

COLOR VECTOR GRAPHIC

cd/klm η = 100%
— C0/C180
— C90/C270

Distance [m]	Cone diameter [m]		Illuminance [lx]	
0.5	0.43 / 0.43	E(0°) / E(C90) 23.3° / E(C0) 23.1°	3275 / 1274 / 1278	
1.0	0.86 / 0.85	E(0°) / E(C90) 23.3° / E(C0) 23.1°	819 / 318 / 320	
1.5	1.29 / 1.28	E(0°) / E(C90) 23.3° / E(C0) 23.1°	364 / 142 / 142	
2.0	1.72 / 1.71	E(0°) / E(C90) 23.3° / E(C0) 23.1°	205 / 80 / 80	
2.5	2.15 / 2.13	E(0°) / E(C90) 23.3° / E(C0) 23.1°	131 / 51 / 51	
3.0	2.58 / 2.56	E(0°) / E(C90) 23.3° / E(C0) 23.1°	91 / 35 / 36	

— C0/C180 (Half-peak divergence: 46.2°)
— C90/C270 (Half-peak divergence: 46.6°)

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Pound_Focus

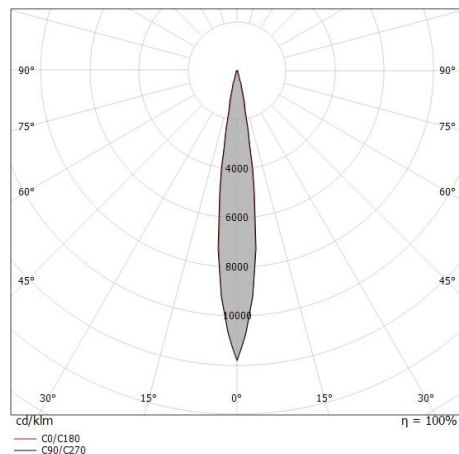Projectors | 198-264 V | 1 arrayLED 13 W DC - 15.5 W AC | CRI 90 | Angle Min

82105N85

Single emission projectors for indoor application. The natural white LED light source with a adjustable focus light distribution is composed of 1 arrayled LEDs with CCT of 4000 K and a CRI 90; the source luminous flux is 1660 lm, with a 127.7 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 0.39 kg.

The total absorbed power is 15.5 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 E.

Illuminotechnical Features

Light Output Ratio (LOR)	13 %
Source lumens	1660 lm
Delivered lumens	223 lm
Consumption	15.5 W
Luminaire efficacy	14 lm/W
Colour temperature	4000 K
Standard Deviation of Colour Matching	2 Step MacAdam
Colour rendering index	90 Ra
Colour Rendering Index	60 R9
Black Body Locus	On
Standard Operating Ambient Temperature	-20 / +50°C
Ordinary temperature on the glass	40°C

LED Life / Failure Ratio
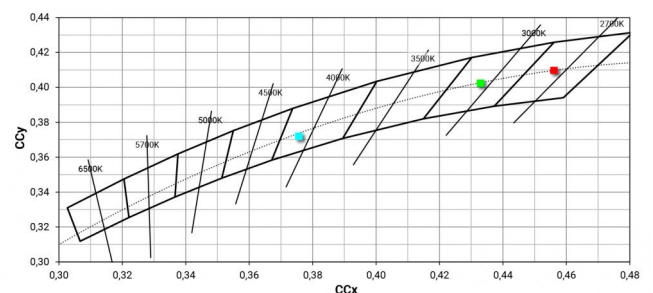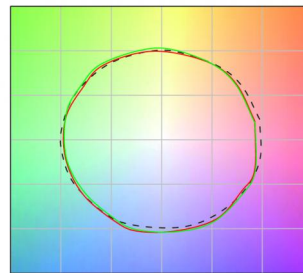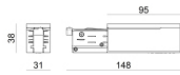
L70 B10 C0 252000h (at Tj 65 Ta 25)

UGR

UGR axial	16.9
UGR transversal	16.2
X=4H	Y=8H	S=0.25H
Reflection factor	70/50/20

OPTICAL

C0/C180 optics	14°
Light distribution simmetry	Symmetrical

COLOR VECTOR GRAPHIC

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

		E(0°)		10493
0.5	0.13 / 0.12	E(C90)	7.2°	5165
		E(C0)	7.0°	5157
1.0	0.25 / 0.25	E(0°)		2623
		E(C90)	7.2°	1291
		E(C0)	7.0°	1289
1.5	0.38 / 0.37	E(0°)		1166
		E(C90)	7.2°	574
		E(C0)	7.0°	573
2.0	0.51 / 0.49	E(0°)		656
		E(C90)	7.2°	323
		E(C0)	7.0°	322
2.5	0.63 / 0.61	E(0°)		420
		E(C90)	7.2°	207
		E(C0)	7.0°	206
3.0	0.76 / 0.74	E(0°)		291
		E(C90)	7.2°	143
		E(C0)	7.0°	143

Distance [m]   Cone diameter [m]   Illuminance [lx]
— C0/C180 (Half-peak divergence: 14.0°)
— C90/C270 (Half-peak divergence: 14.4°)

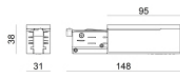**linealight**.com

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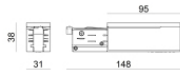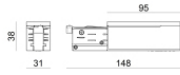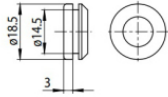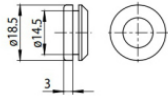|			**Code**
		Power supply - White Right power supply header (9001/W) Material:PC, colour:white.	81033
		Power supply - White left power supply header (9002/W) Material:PC, colour:white.	81036
		Power supply - Black left power supply header (9002/B) Material:PC, colour:black.	81037
		Power supply - 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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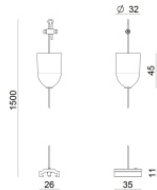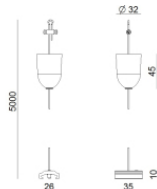|			**Code**
		Closing cap - White gasket (S-9001/115-W) Material:white.	81084
		Closing cap - Black gasket (S-9001/115-B) Material:black, colour:black.	81085
		Ceiling rose - 1.5m white pendant luminaires kit + bracket (9000-KIT5-1,5-W) Material:plastic, colour:white.	81012
		Ceiling rose - 1.5m black pendant luminaires kit + bracket ((9000-KIT5-1,5-B) Material:plastic, colour:black.	81014
		Ceiling rose - 5m white pendant luminaires kit + bracket (9000-KIT5-5-W) Material:plastic, colour:white.	81013
		Ceiling rose - 5m black pendant luminaires kit + bracket (9000-KIT5-5-B) Material:plastic, colour:black.	81015

			Finish	**Code**
		Bracket - Anodized fixing bracket (S-9000/131) L=35mm, H=14mm, D=24mm. Material:Aluminium, colour:translucent.	Anod. Al.	81086
		Bracket - Anodized stiffening bracket (S-9000/333) L=180mm, H=24mm, D=26mm. Material:Aluminium, colour:Anodised Aluminum, processing:Anodisation.		81024

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Pound_Focus | Projectors | Accessories
82105N85

	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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82105N85

			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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82105N85
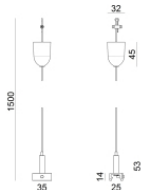
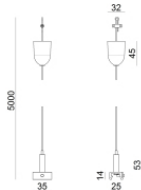|		**Code**
	Suspensions - 1.5m white pendant luminaires kit (9000-KIT3-1,5-W) Material:plastic, colour:white.	81006
	Suspensions - 5m white pendant luminaires kit (9000-KIT3-5-W) Material:plastic, colour:white.	81007
	Suspensions - 1.5m black pendant luminaires kit (9000-KIT3-1,5-B) Material:plastic, 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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		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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82105N85

		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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82105N85

			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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82105N85

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

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