

## Product: ARUNA LED 3R 12000 OPTICS-1L E 34 840 / 600X600 Index: 19.3044.0303.34

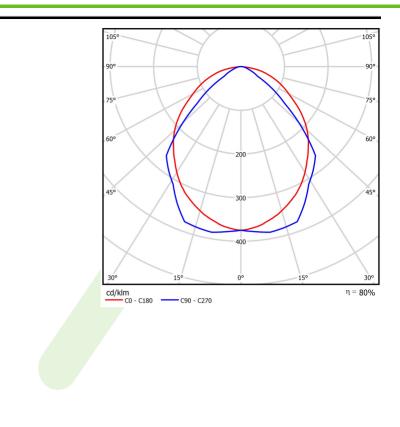


## Description

LED luminary dedicated to be mounted on suspended modular ceilings, cardboard suspended ceilings (using adaptive frame), directly on the ceiling (using ceiling slab) or using slings. Equipped with highly efficient LED light sources. Light distribution available with modern lenses. Housing made of steel sheet. Standard colour of the luminary is white. Significant diversity of the value of luminous flux. Colour rendering index CRI: 80. Thanks to its innovative optics Aruna LED perfectly fits to be used in offices-especially to work with computers.

Product information       Category       Recessed luminaires         Family       ARUNA LED       Name       ARUNA LED         Name       ARUNA LED       Rate and the standard of the stand			
Name       ARUNA LED 3R 12000 OPTICS-1L E 34 840 / 600X600         Index       19.3044.0303.34         Image:       Image:         Image:	Product information	Category Recessed luminaires	
Index       19.3044.0303.34         Image:       19.3044.0303.34         Image:       I		Family ARUNA LED	
Icight and electrical data       Light source       LED         Luminous flux LED [Im]       12495         LED power [M]       77         Luminous flux LED [Im]       12495         LED power [M]       974         Power of Unimiare [Mu initiates]       86         Luminous flux LED [Im]       116         Color of the light [K]       4000         CRI       >80         SDCM (LED sources)       3         Beam angle [']       (Co-C180) / (C90-C270) - 100,4° / 90,8°         Protection against electric shock       I         Protection degree       IP20         Voltage       220.240 V, 50.60 Hz         Lifetime of LED sources [h]       100000 (1) / 147000 (2)         LX/By       L80/E10 (1) / L70/B50 (2)         Operating temperature range ('C)       5 + 30         Driver       standard on/off (E)         Power factor cos φ       >0,95         Circuit load capacity       9 (B10), 15 (B16), 15 (C10), 24 (C16)         Material       steel sheet         Color       RAL 9016 (white)         Diffuser       OPTICS (optical system based on lenses)         Impact resistant       IK04         Dimensions (rm)       593 × 593 × 39   <		Name ARUNA LED	3R 12000 OPTICS-1L E 34 840 / 600X600
Luminous flux LED [lm]       12495         LED power [M]       77         Luminaire luminous flux [lm]       9974         Power of luminaire [M]       86         Luminaire's light efficiency [lm/W]       116         Color of the light [K]       4000         CRI       >80         SDCM (LED sources)       3         Beam angle [°]       (C0-C180) / (C90-C270) - 100,4° / 90,8°         Protection against electric shock       I         Protection degree       IP20         Voltage       220.240 V, 50.60 Hz         Lifetime of LED sources [h]       100000 (1) / 147000 (2)         Lx/By       L80/B10 (1) / L70/B50 (2)         Operating temperature range [°C]       5 ÷ 30         Driver       standard on/off (E)         Power factor cos φ       >0,95         Circuit load capacity       9 (B10), 15 (B16), 15 (C10), 24 (C16)         Material       steel sheet         Color       RAL 9016 (white)         Diffuser       OPTICS (optical system based on lenses)         Impact resistant       IK04		Index 19.3044.0303	3.34
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Luminaire luminous flux [lm]       9974         Power of luminaire [W]       86         Luminaire's light efficiency [lm/W]       116         Color of the light [K]       4000         CRI       >80         SDCM (LED sources)       3         Beam angle [°]       (C0-C180) / (C90-C270) - 100,4° / 90,8°         Protection against electric shock       I         Protection degree       IP20         Voltage       220.240 V, 50.66 Hz         Lifetime of LED sources [h]       100000 (1) / 147000 (2)         LX/By       L80/B10 (1) / L70/B50 (2)         Operating temperature range [°C]       5 + 30         Driver       standard on/off (E)         Power factor cos $\varphi$ >0,95         Circuit load capacity       9 (B10), 15 (B16), 15 (C10), 24 (C16)         Mechanical data       Assembly       mounted in module ceilings, plasterboard ceilings, directly on the ceiling or using the slings		Luminous flux LED [lm]	12495
Power of luminaire [W]       86         Luminaire's light efficiency [Im/W]       116         Color of the light [K]       4000         CRI       >80         SDCM (LED sources)       3         Beam angle [°]       (C0-C180) / (C90-C270) - 100,4° / 90,8°         Protection against electric shock       I         Protection against electric shock       I         Protection degree       IP20         Voltage       220240 V, 5060 Hz         Lifetime of LED sources [h]       100000 (1) / 147/000 (2)         Lx/By       L80/B10 (1) / L70/B50 (2)         Operating temperature range [°C]       5 ÷ 30         Driver       standard on/off (E)         Power factor cos φ       >0,95         Circuit load capacity       9 (B10), 15 (B16), 15 (C10), 24 (C16)         Mechanical data       Assembly       mounted in module ceilings, plasterboard ceilings.		LED power [W]	77
Luminaire's light efficiency [Im/W]       116         Color of the light [K]       4000         CRI       >80         SDCM (LED sources)       3         Beam angle [°]       (C0-C180) / (C90-C270) - 100,4° / 90,8°         Protection against electric shock       1         Protection degree       IP20         Voltage       220240 V, 5060 Hz         Lifetime of LED sources [h]       100000 (1) / 147000 (2)         Lx/By       L80/B10 (1) / L70/B50 (2)         Operating temperature range [°C]       5 ÷ 30         Driver       standard on/off (E)         Power factor cos φ       >0,95         Circuit load capacity       9 (B10), 15 (B16), 15 (C10), 24 (C16)         Mechanical data       Assembly       mounted in module ceilings, plasterboard ceilings, directly on the ceiling or using the slings		Luminaire luminous flux [li	m] <b>9974</b>
Color of the light [K]       4000         CRI       >80         SDCM (LED sources)       3         Beam angle ["]       (C0-C180) / (C90-C270) - 100,4° / 90,8°         Protection against electric shock       1         Protection degree       IP20         Voltage       220240 V, 5060 Hz         Lifetime of LED sources [h]       100000 (1) / 147000 (2)         Lx/By       L80/B10 (1) / L70/B50 (2)         Operating temperature range [°C]       5 ÷ 30         Driver       standard on/off (E)         Power factor cos φ       >0,95         Circuit load capacity       9 (B10), 15 (B16), 15 (C10), 24 (C16)         Material       steel sheet         Color       RAL 9016 (white)         Diffuser       OPTICS (optical system based on lenses)         Impact resistant       IK04         Dimensions [mm]       593 x 593 x 39		Power of luminaire [W]	86
CRI       >80         SDCM (LED sources)       3         Beam angle [°]       (C0-C180) / (C90-C270) - 100,4° / 90,8°         Protection against electric shock       I         Protection degree       IP20         Voltage       220240 V, 5060 Hz         Lifetime of LED sources [h]       100000 (1) / 147000 (2)         Lx/By       L80/B10 (1) / L70/B50 (2)         Operating temperature range [°C]       5 ÷ 30         Driver       standard on/off (E)         Power factor cos $\phi$ >0,95         Circuit load capacity       9 (B10), 15 (B16), 15 (C10), 24 (C16)         Mechanical data       Assembly       mounted in module ceilings, plasterboard ceilings, directly on the ceiling or using the slings		Luminaire's light efficiency	/ [lm/W] 116
CRI       >80         SDCM (LED sources)       3         Beam angle [°]       (C0-C180) / (C90-C270) - 100,4° / 90,8°         Protection against electric shock       I         Protection degree       IP20         Voltage       220240 V, 5060 Hz         Lifetime of LED sources [h]       100000 (1) / 147000 (2)         Lx/By       L80/B10 (1) / L70/B50 (2)         Operating temperature range [°C]       5 ÷ 30         Driver       standard on/off (E)         Power factor cos $\phi$ >0,95         Circuit load capacity       9 (B10), 15 (B16), 15 (C10), 24 (C16)         Mechanical data       Assembly       mounted in module ceilings, plasterboard ceilings, directly on the ceiling or using the slings		Color of the light [K]	4000
Beam angle [°]       (C0-C180) / (C90-C270) - 100,4° / 90,8°         Protection against electric shock       I         Protection degree       IP20         Voltage       220240 V, 5060 Hz         Lifetime of LED sources [h]       100000 (1) / 147000 (2)         Lx/By       L80/B10 (1) / L70/B50 (2)         Operating temperature range [°C]       5 ÷ 30         Driver       standard on/off (E)         Power factor cos φ       >0,95         Circuit load capacity       9 (B10), 15 (B16), 15 (C10), 24 (C16)         Mechanical data       Assembly       mounted in module ceilings, plasterboard ceilings, directly on the ceiling or using the slings		CRI	>80
Beam angle [°]       (C0-C180) / (C90-C270) - 100,4° / 90,8°         Protection against electric shock       I         Protection degree       IP20         Voltage       220240 V, 5060 Hz         Lifetime of LED sources [h]       100000 (1) / 147000 (2)         Lx/By       L80/B10 (1) / L70/B50 (2)         Operating temperature range [°C]       5 ÷ 30         Driver       standard on/off (E)         Power factor cos φ       >0,95         Circuit load capacity       9 (B10), 15 (B16), 15 (C10), 24 (C16)         Mechanical data       Assembly       mounted in module ceilings, plasterboard ceilings, directly on the ceiling or using the slings		SDCM (LED sources)	3
Protection degree       IP20         Voltage       220.240 V, 50.60 Hz         Lifetime of LED sources [h]       100000 (1) / 147000 (2)         Lx/By       L80/B10 (1) / L70/B50 (2)         Operating temperature range [°C]       5 ÷ 30         Driver       standard on/off (E)         Power factor cos φ       >0,95         Circuit load capacity       9 (B10), 15 (B16), 15 (C10), 24 (C16)         Mechanical data       Assembly         Material       steel sheet         Color       RAL 9016 (white)         Diffuser       OPTICS (optical system based on lenses)         Impact resistant       IK04         Dimensions [mm]       593 x 593 x 39		Beam angle [°]	(C0-C180) / (C90-C270) - 100,4° / 90,8°
Voltage220240 V, 5060 HzLifetime of LED sources [h]100000 (1) / 147000 (2) $Lx/By$ L80/B10 (1) / L70/B50 (2)Operating temperature range [°C] $5 \div 30$ Driverstandard on/off (E)Power factor cos $\phi$ >0,95Circuit load capacity9 (B10), 15 (B16), 15 (C10), 24 (C16)Mechanical dataAssemblyBMaterialASteel sheetColorRAL 9016 (white)DiffuserOPTICS (optical system based on lenses)Impact resistantIK04Dimensions [mm]593 x 593 x 39		Protection against electric	shock I
Lifetime of LED sources [h]       100000 (1) / 147000 (2)         Lx/By       L80/B10 (1) / L70/B50 (2)         Operating temperature range [°C]       5 ÷ 30         Driver       standard on/off (E)         Power factor cos φ       >0,95         Circuit load capacity       9 (B10), 15 (B16), 15 (C10), 24 (C16)         Mechanical data       Assembly       mounted in module ceilings, plasterboard ceilings, directly on the ceiling or using the slings         Material       steel sheet       Color       RAL 9016 (white)         Diffuser       OPTICS (optical system based on lenses)       Impact resistant       IK04         Dimensions [mm]       593 x 593 x 39       Step 3 x 593 x 39		Protection degree	IP20
Lx/By       L80/B10 (1) / L70/B50 (2)         Operating temperature range [°C]       5 ÷ 30         Driver       standard on/off (E)         Power factor cos φ       >0,95         Circuit load capacity       9 (B10), 15 (B16), 15 (C10), 24 (C16)         Mechanical data       Assembly       mounted in module ceilings, plasterboard ceilings, directly on the ceiling or using the slings         B       Material       steel sheet         Color       RAL 9016 (white)         Diffuser       OPTICS (optical system based on lenses)         Impact resistant       IK04         Dimensions [mm]       593 x 593 x 39		Voltage	220240 V, 5060 Hz
Operating temperature range [°C]       5 ÷ 30         Driver       standard on/off (E)         Power factor cos φ       >0,95         Circuit load capacity       9 (B10), 15 (B16), 15 (C10), 24 (C16)         Mechanical data       Assembly       mounted in module ceilings, plasterboard ceilings, directly on the ceiling or using the slings         Material       steel sheet       Color       RAL 9016 (white)         Diffuser       OPTICS (optical system based on lenses)       Impact resistant       IK04         Dimensions [mm]       593 x 593 x 39       Step 3 x 593 x 39		Lifetime of LED sources [h	100000 (1) / 147000 (2)
Driver       standard on/off (E)         Power factor cos φ       >0,95         Circuit load capacity       9 (B10), 15 (B16), 15 (C10), 24 (C16)         Mechanical data       Assembly       mounted in module ceilings, plasterboard ceilings, directly on the ceiling or using the slings         Material       steel sheet       Color         Color       RAL 9016 (white)         Diffuser       OPTICS (optical system based on lenses)         Impact resistant       IK04         Dimensions [mm]       593 x 593 x 39		Lx/By	L80/B10 (1) / L70/B50 (2)
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Circuit load capacity9 (B10), 15 (B16), 15 (C10), 24 (C16)Mechanical dataAssemblymounted in module ceilings, plasterboard ceilings, directly on the ceiling or using the slingsBMaterialsteel sheetColorRAL 9016 (white)DiffuserOPTICS (optical system based on lenses)Impact resistantIK04Dimensions [mm]593 x 593 x 39		Driver	standard on/off (E)
Mechanical data       Assembly       mounted in module ceilings, plasterboard ceilings, directly on the ceiling or using the slings         B       Material       steel sheet         Color       RAL 9016 (white)         Diffuser       OPTICS (optical system based on lenses)         Impact resistant       IK04         Dimensions [mm]       593 x 593 x 39		Power factor $\cos \phi$	>0,95
A       ceilings, directly on the ceiling or using the slings         Material       steel sheet         Color       RAL 9016 (white)         Diffuser       OPTICS (optical system based on lenses)         Impact resistant       IK04         Dimensions [mm]       593 x 593 x 39		Circuit load capacity	9 (B10), 15 (B16), 15 (C10), 24 (C16)
Color     RAL 9016 (white)       Diffuser     OPTICS (optical system based on lenses)       Impact resistant     IK04       Dimensions [mm]     593 x 593 x 39	B H	Assembly	ceilings, directly on the ceiling or using the
A     Diffuser     OPTICS (optical system based on lenses)       Impact resistant     IK04       Dimensions [mm]     593 x 593 x 39		Material	steel sheet
A     Diffuser     OPTICS (optical system based on lenses)       Impact resistant     IK04       Dimensions [mm]     593 x 593 x 39		Color	RAL 9016 (white)
A         Impact resistant         IK04           Dimensions [mm]         593 x 593 x 39		Diffuser	OPTICS (optical system based on lenses)
Dimensions [mm] 593 x 593 x 39		Impact resistant	
		Dimensions [mm]	593 x 593 x 39
			610 x 610

## A graph of light





Luminous flux tolerance +/- 10%. Power tolerance +/- 10%. Technical data may be changed. Photos of the luminaires may differ from reality. Date of last update: 23-12-2022