

TUNGSRAM™

Innovation is our heritage
EST. 1896



INLUMINO

Smart road lighting family

tungshram.com





Only two hand-tools required for installing the fixture



Coupler can be adjusted by 5°
-15°, -10°, -5°, 0°, 5°, 10°, 15°

TOOL-LESS MAINTENANCE



Press here to
open the fixture

"click and flip"
"twist and lock"



Tool-less hinged opening and
lift-off head with automatic
electrical disconnect

SMART READY



Smart ready luminaire with an
option form NEMA socket



Airgap for optimized cooling
and long lifetime

Inlumino

size S

DATASHEET



Product information

The new Tungsram luminaire, with its innovative and unique solutions, is an excellent choice for road and street applications. The key aspects of the lamp development are the simple and fast installation, the tool-free repair options and the diverse usage. The luminaire meets the expectations of the 21st century: sleek design, and high efficiency. Inlumino is also suitable for a variety of applications, as it can be installed as a light source or easily upgraded to an IoT data point. Take advantage of the innovation from Tungsram and optimize your outdoor lighting with the new range of Inlumino luminaires.

Application areas



Roadways
and Highways



Pedestrian street

Driver features

- Electronic, dimmable driver
- Controls: Dali, DynaDim, CLO
- ThermalGuard

Structures and materials

- Housing material: die-cast aluminium body and coupler, with stainless steel screws.
- Optic material: Optical-grade polycarbonate
- Optical cover: Tempered glass
- Colour: RAL7021
- Impact Strength: IK09 (glass) / IK09 (housing) / IK08 (Shorting Cap)

Electrical

Input voltage and frequency: 220-240V, 50-60Hz
IEC protection class: Class I, Class II
Driver immunity: 10kV/5kA
Rated input power: 29-117W

Installation and maintenance

Mounting options:

- Side mounting coupler for 30-76mm diameters and -15°, -10°, -5°, 0°, +5°, +10°, +15° tilt options
- Post top mounting coupler for 30-76mm diameters and -15°, -10°, -5°, 0°, +5°, +10°, +15° tilt options
- Weight: 7.5 kg
- Recommended mounting height: 6-15 m
- Only two hand-tools required for installing the fixture
- Tool-less maintenance, click and flip, twist and lock
- Tool-less hinged opening and lift-off head with automatic electrical disconnect
- Storage temperature from -40°C to +85°C
- Ambient temperature from -40°C to +50°C

Optics

64 different optic combinations would be available which are suitable for pedestrian streets to high traffic roads.

Rated colour rendering index > 70

Rated correlated colour temperatures: 2700K, 3000K, 4000K, 5000K

ULOR: 0

Rated initial chromaticity co-ordinate values:

- 2700K: CIE(x=0.4582, y=0.4099) 5SDCM
- 3000K: CIE(x=0.4338, y=0.403) 5SDCM
- 4000K: CIE(x= 0.3818, y= 0.3797) 5SDCM
- 5000K: CIE(x= 0.34, y= 0.35) 5SDCM

Performance

- Rated luminous flux range: From 4000 up to 15900 lm
- Rated luminaire efficacy: From 124 up to 150 lm/W
- Rated median useful life and the associated rated LM factor: L80B50 > 305.000 hours
- Rated useful life and the associated rated LM factor: L80B10 > 300.000 hours
- Rated median useful life and the associated rated LM factor: L90B50 > 130.000 hours
- Rated useful life and the associated rated LM factor: L90B10 > 128.000 hours
- Rated abrupt failure value: < 10% at 100.000 hours
- Photometric code: 727/559, 730/559, 740/559, 750/559
- Lumen maintenance code: 9
- Definitions and tolerances according to IEC62722-2-1:2014

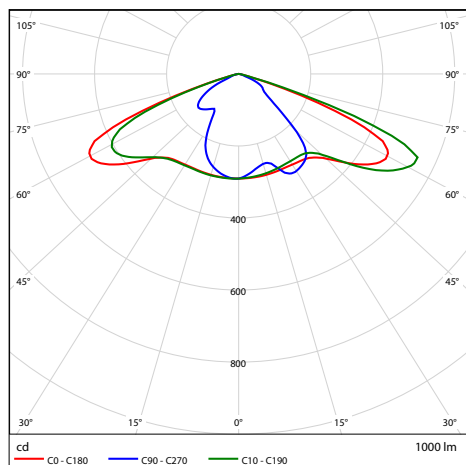
Standards and regulation

CE, ENEC*, Directive 2014/30/EU, 2014/35/EU, 2009/125/EC, 1194/2012/EU, 2011/65/EC, EN 60598, EN 62471, EN 55015, EN 61000, EN 62493, EN 61547, IEC 62031

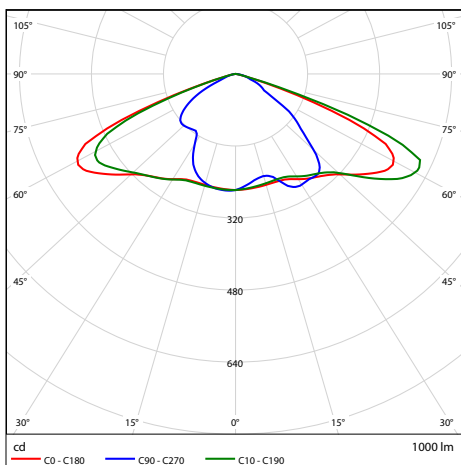
Other options available

- Extra surge protection device (10kV)
- NEMA socket with shorting cap
- Toolless removable geartray
- Fuse
- Eco version

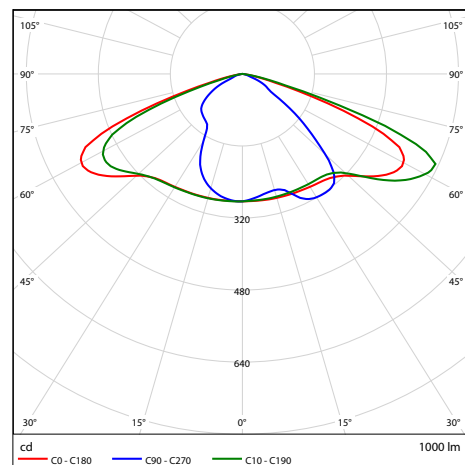
Typical photometric features



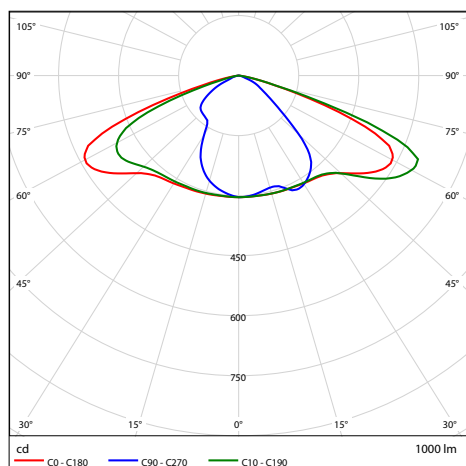
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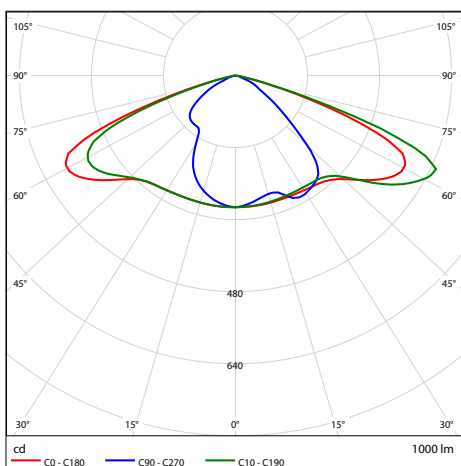
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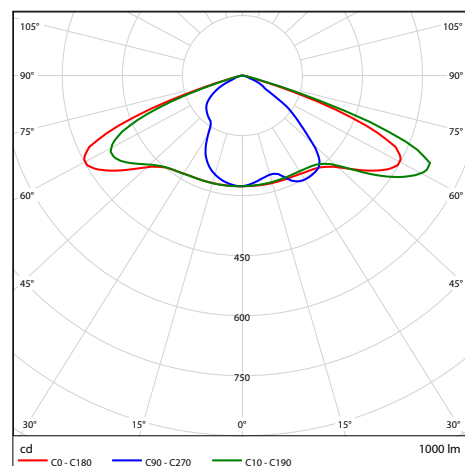
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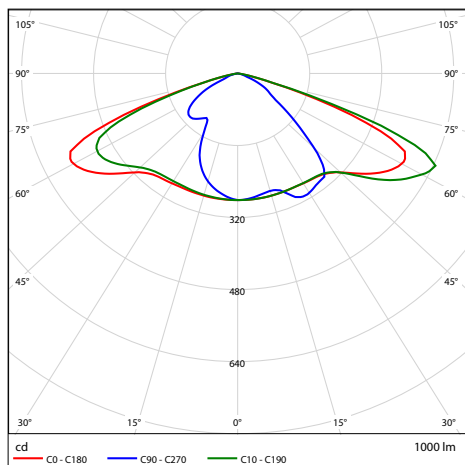
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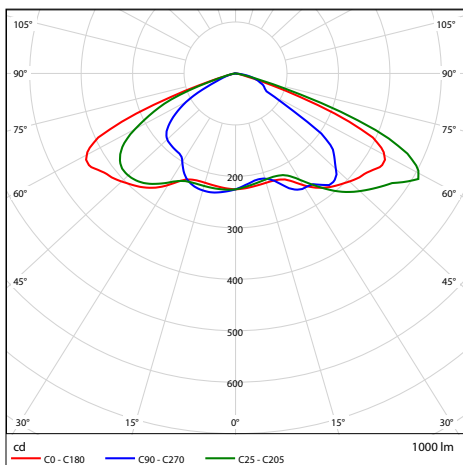
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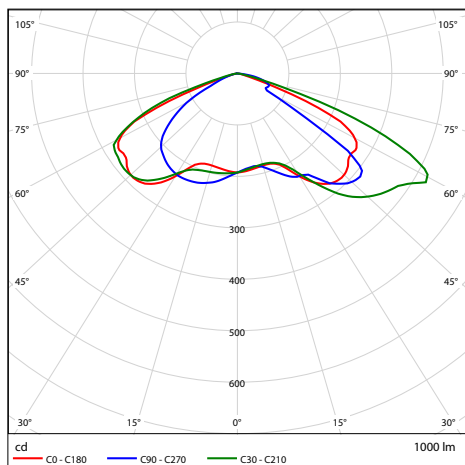
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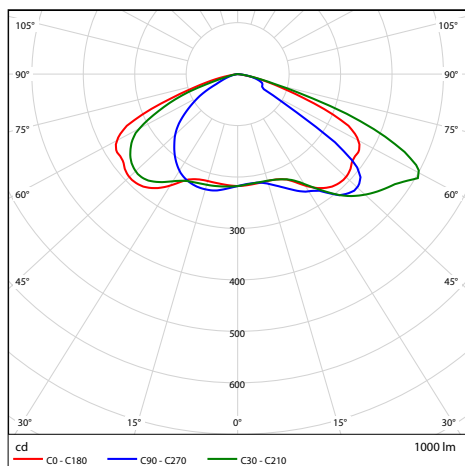
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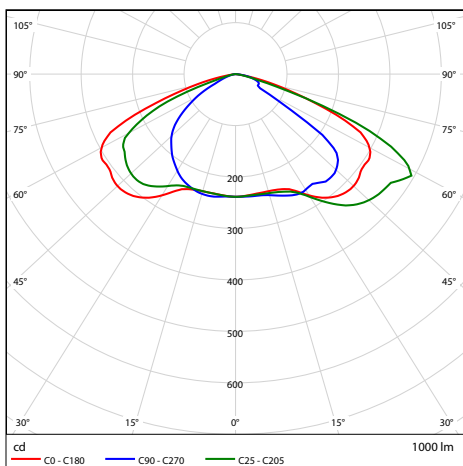
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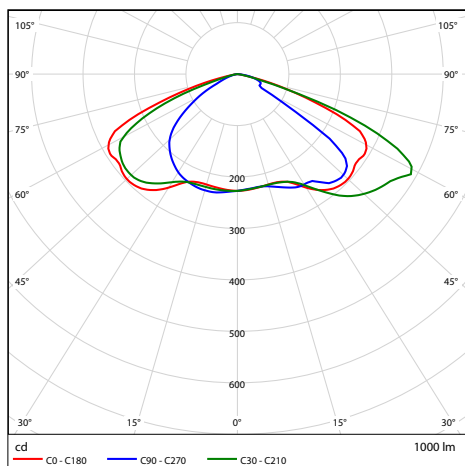
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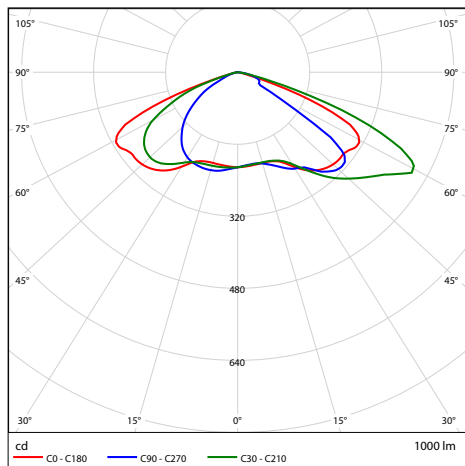
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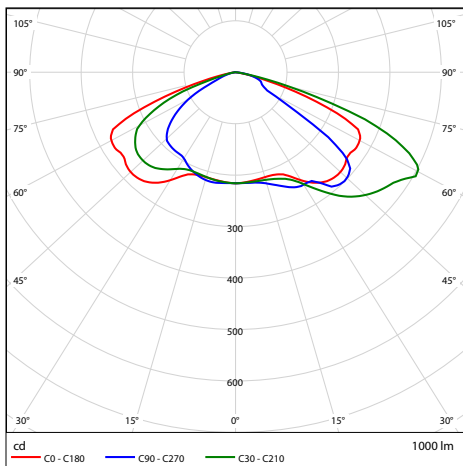
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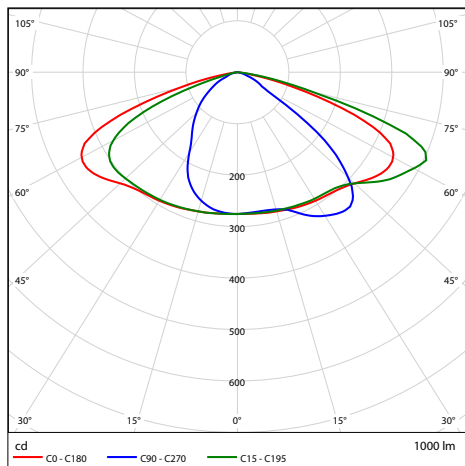
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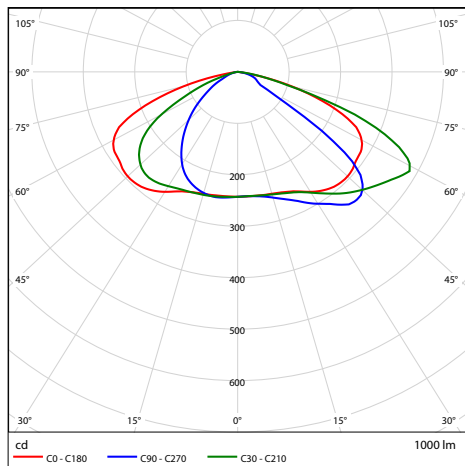
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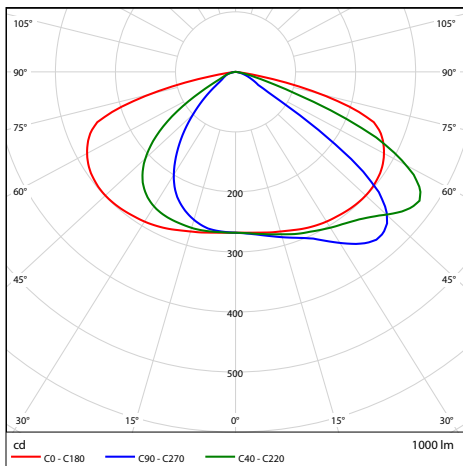
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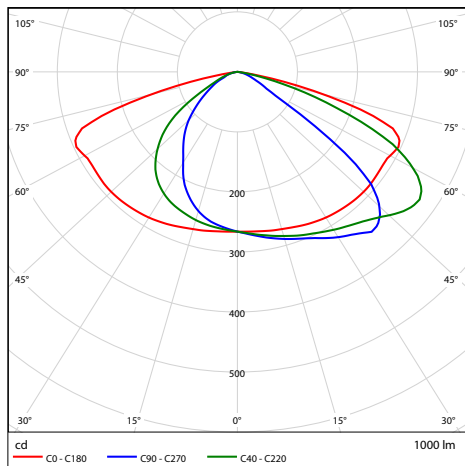
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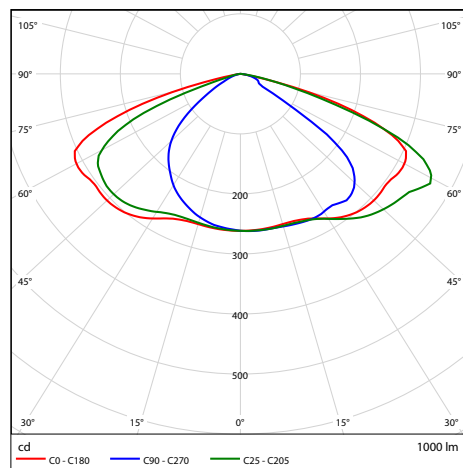
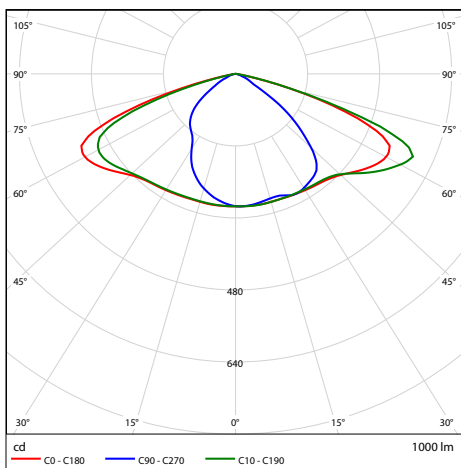
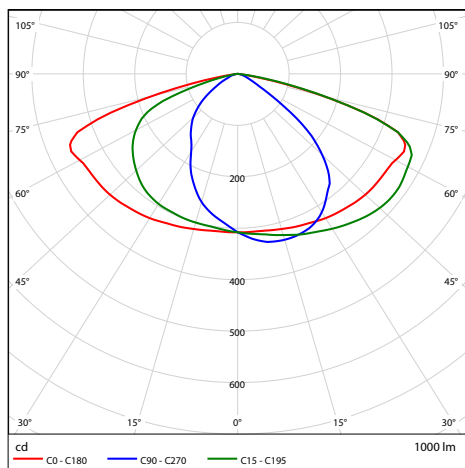
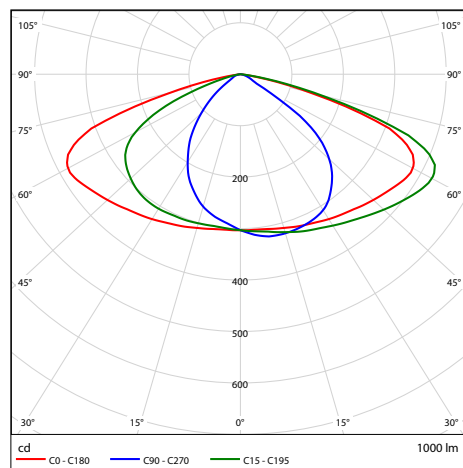
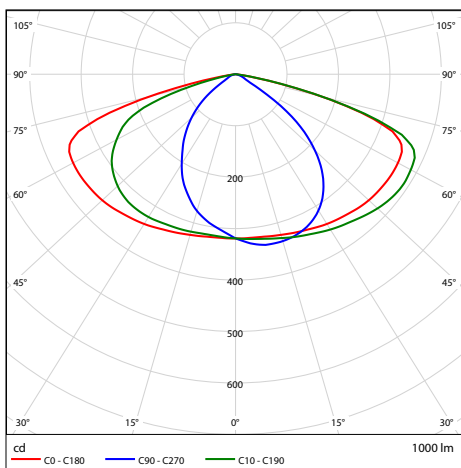
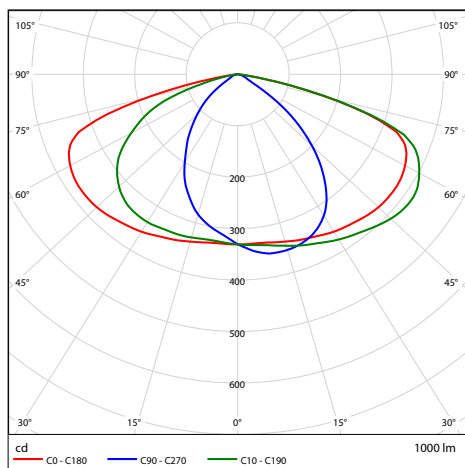
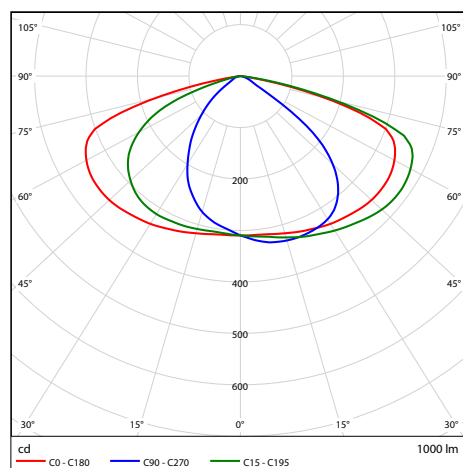
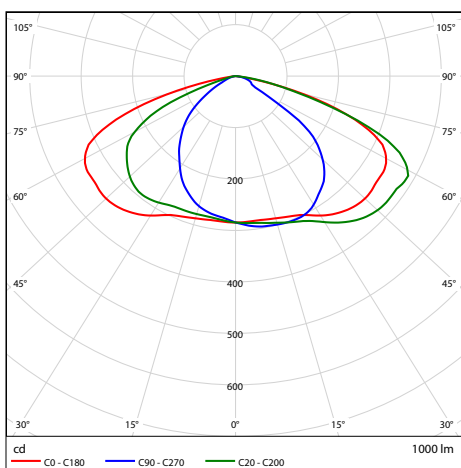
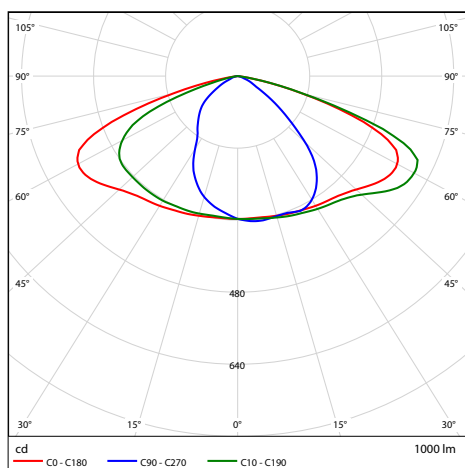
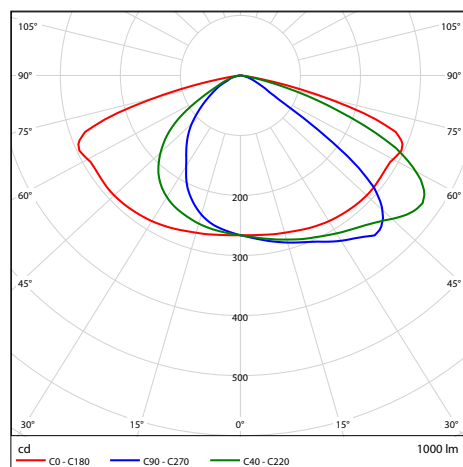
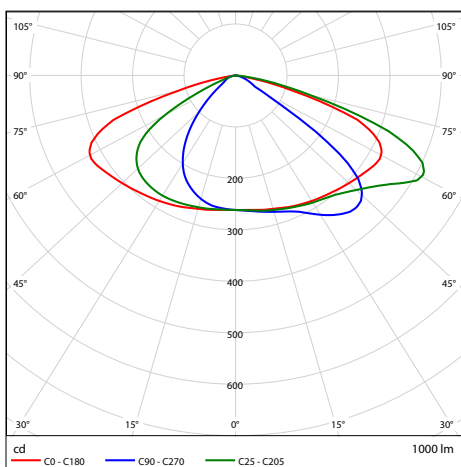
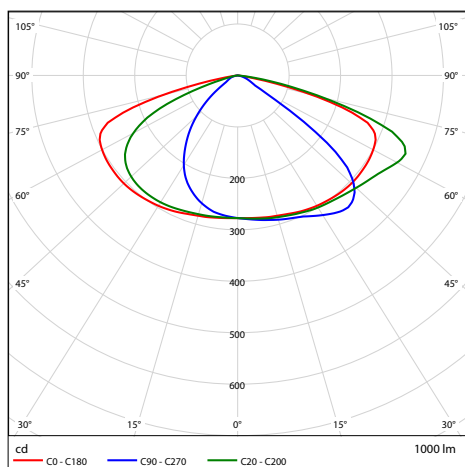
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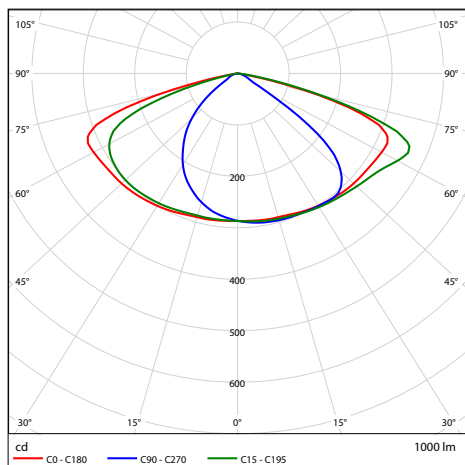


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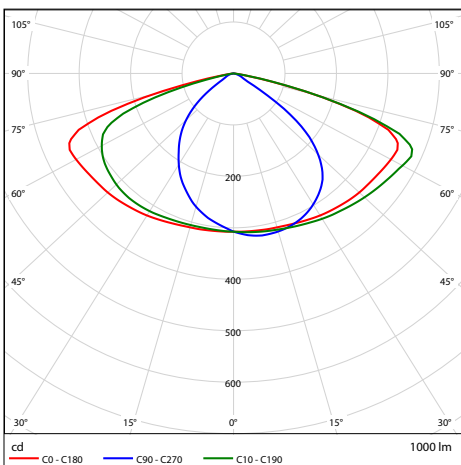


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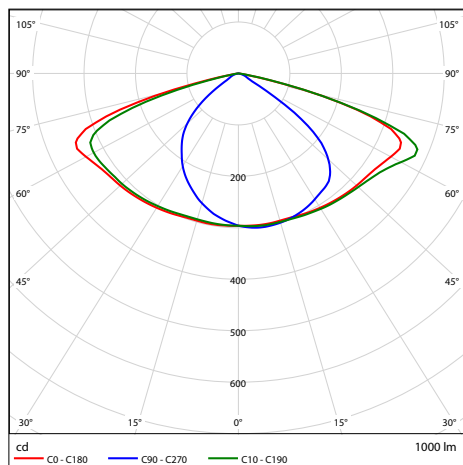




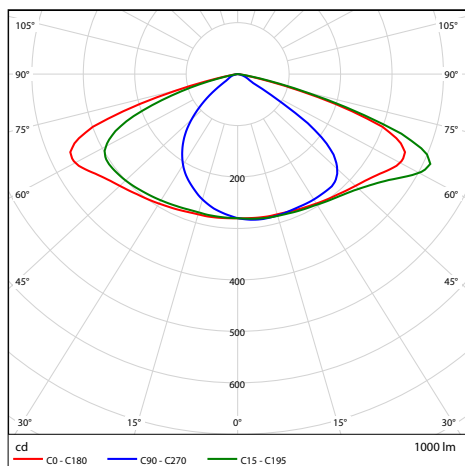
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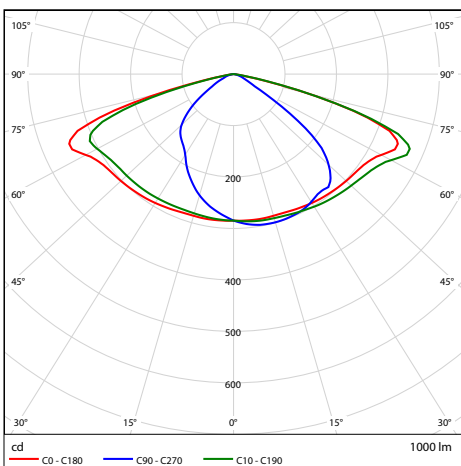
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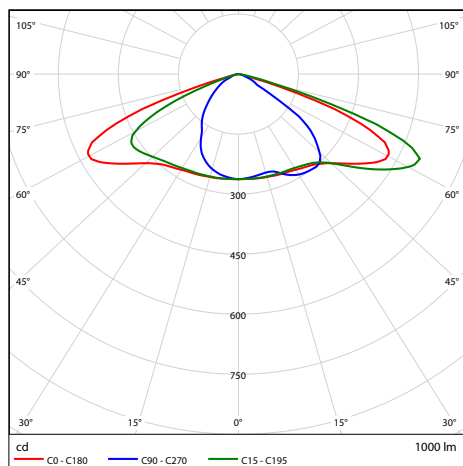
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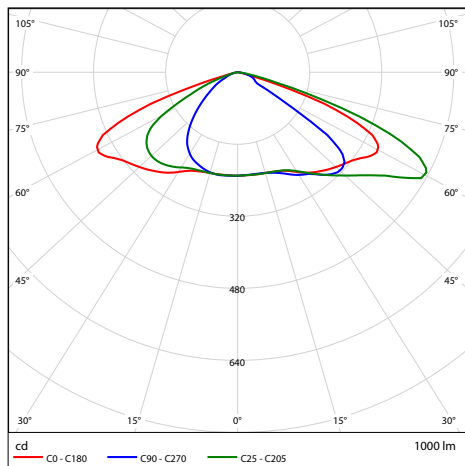
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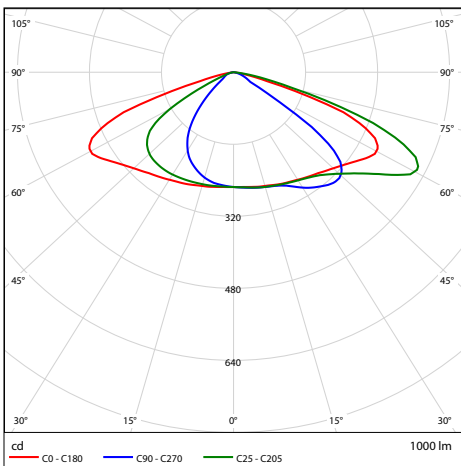
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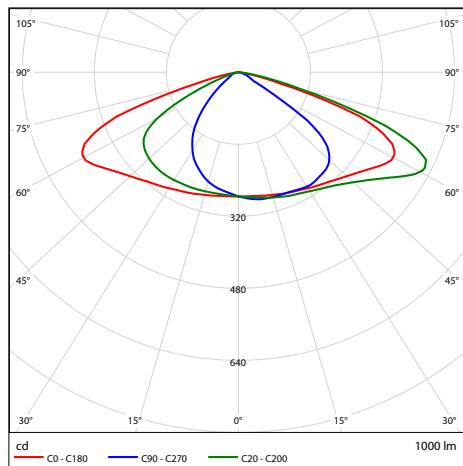
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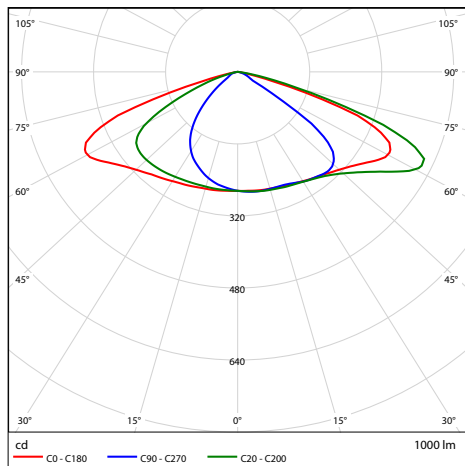
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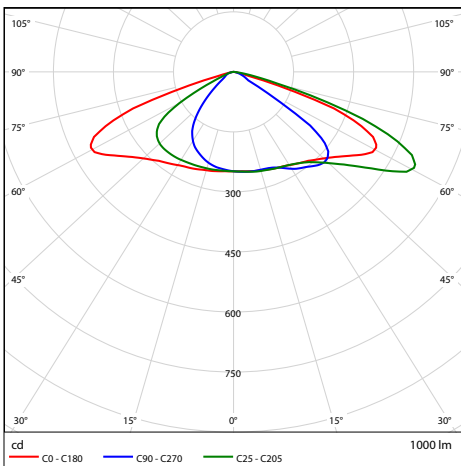
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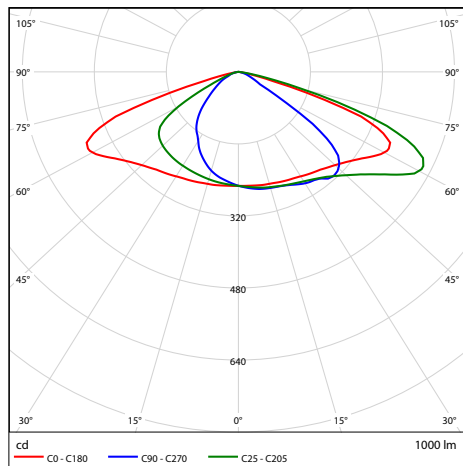
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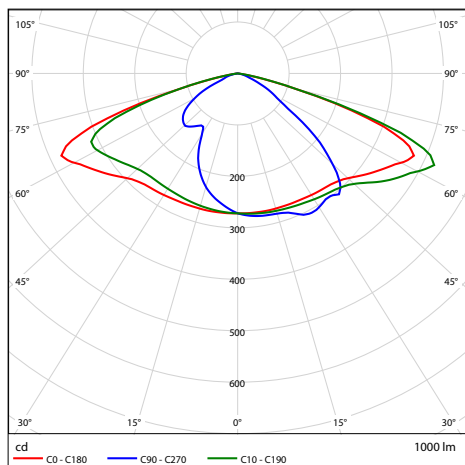
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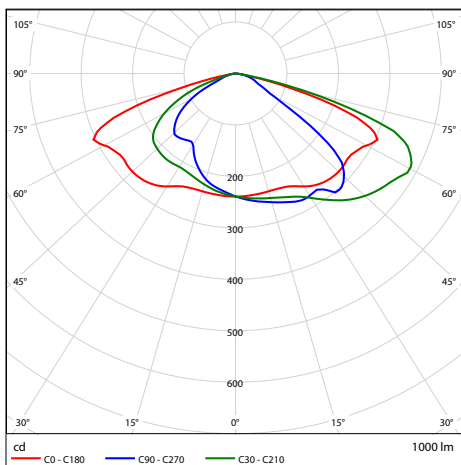
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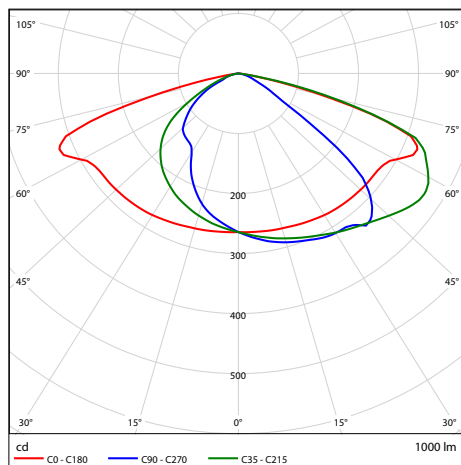
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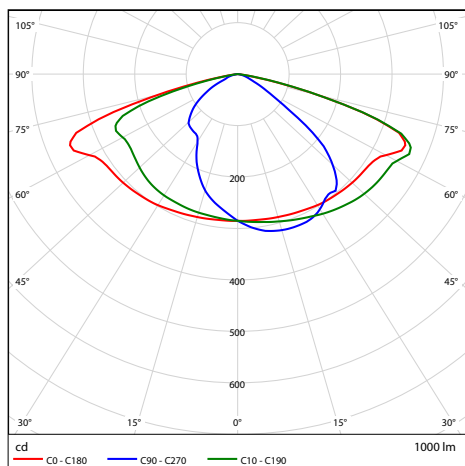
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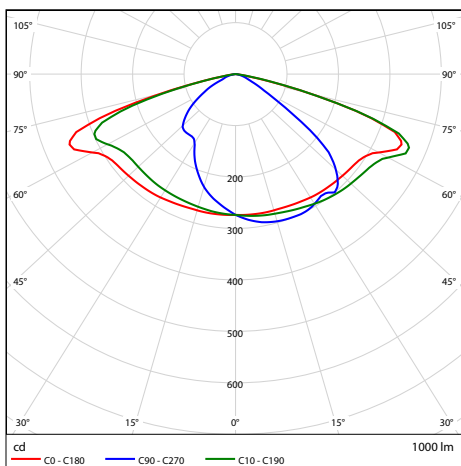
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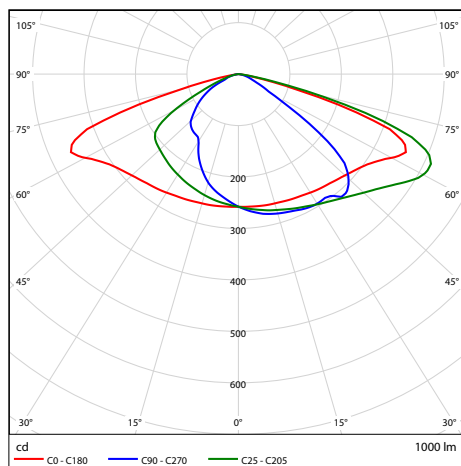
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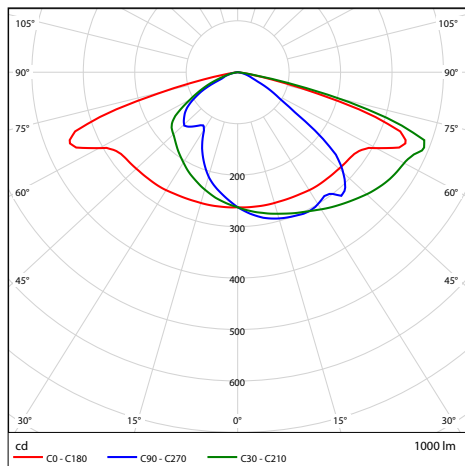
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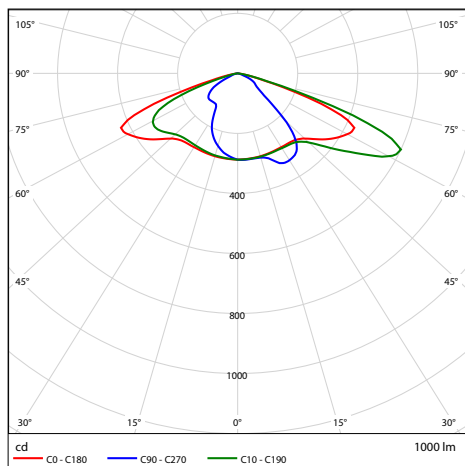
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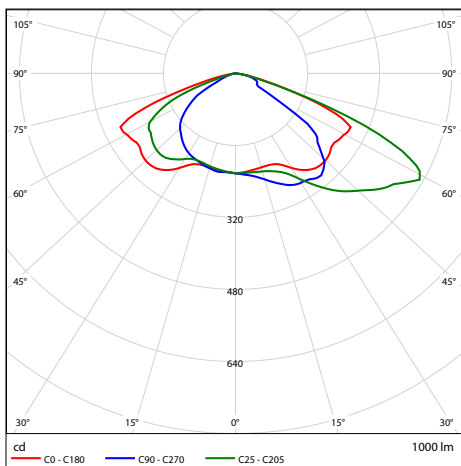
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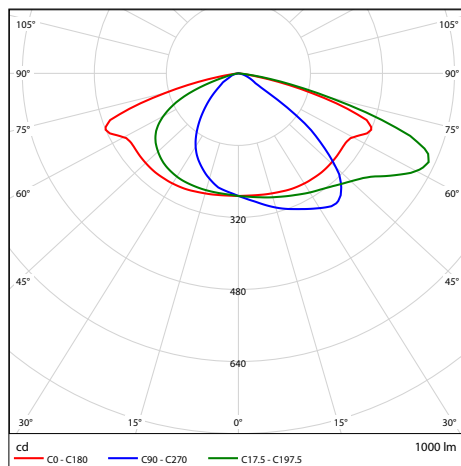
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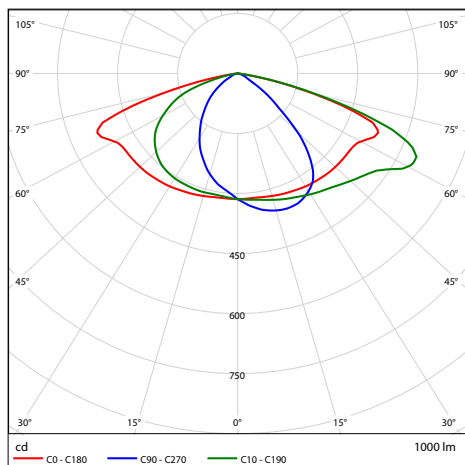
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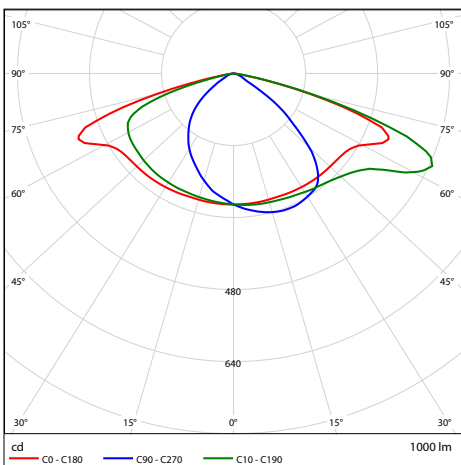
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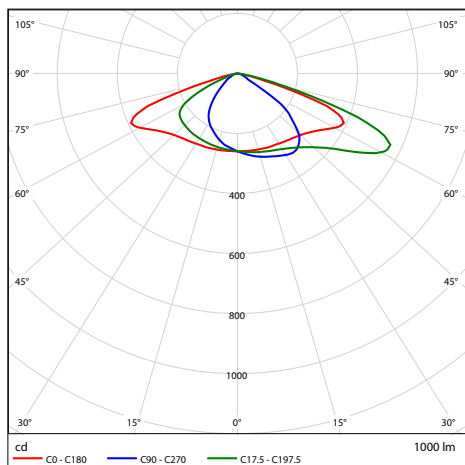
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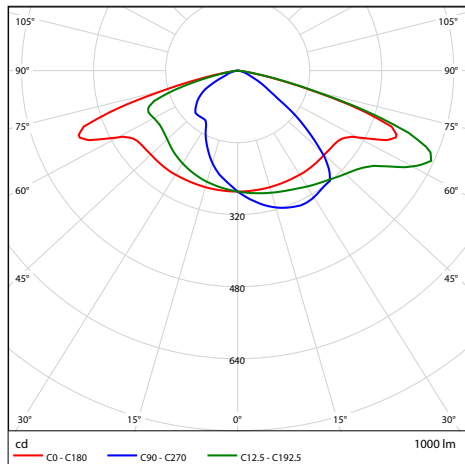
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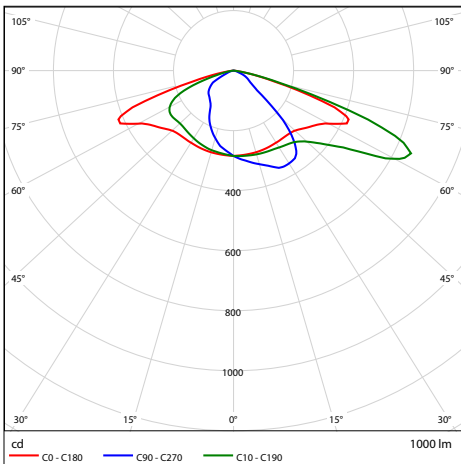
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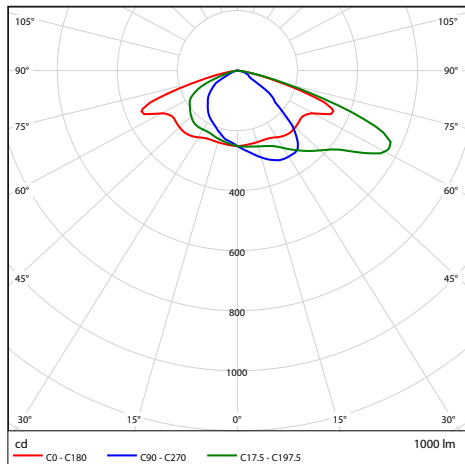
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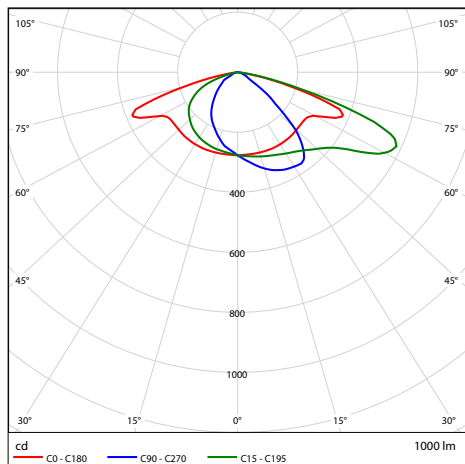
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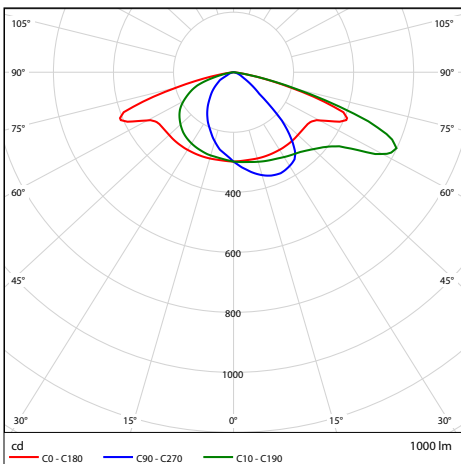
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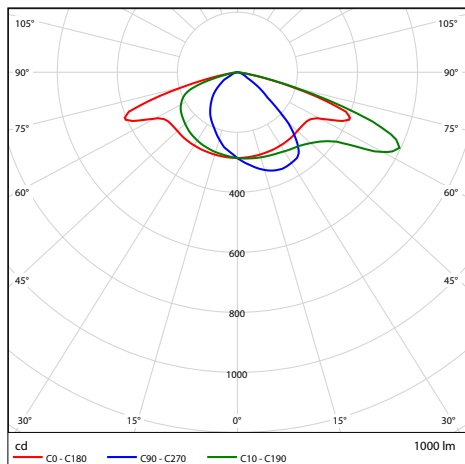
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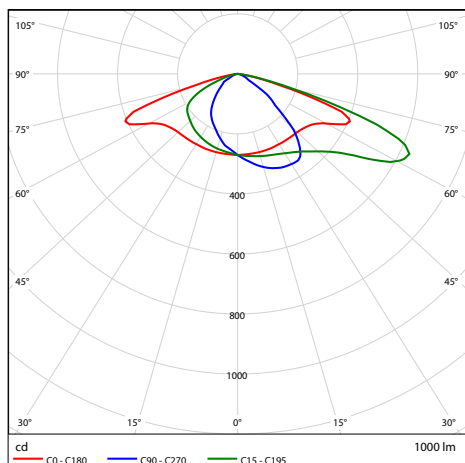
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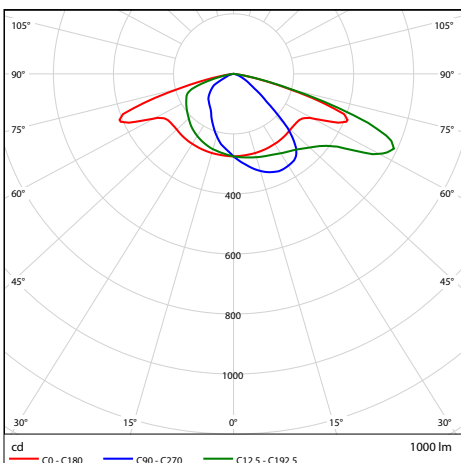
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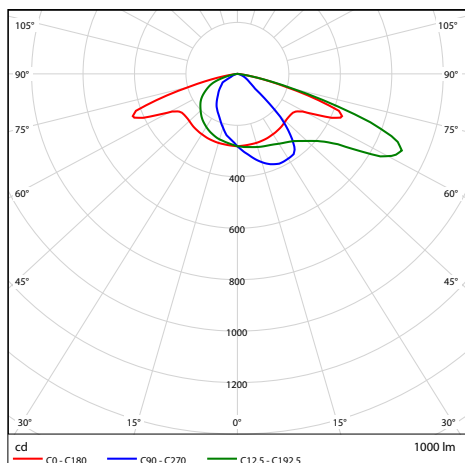
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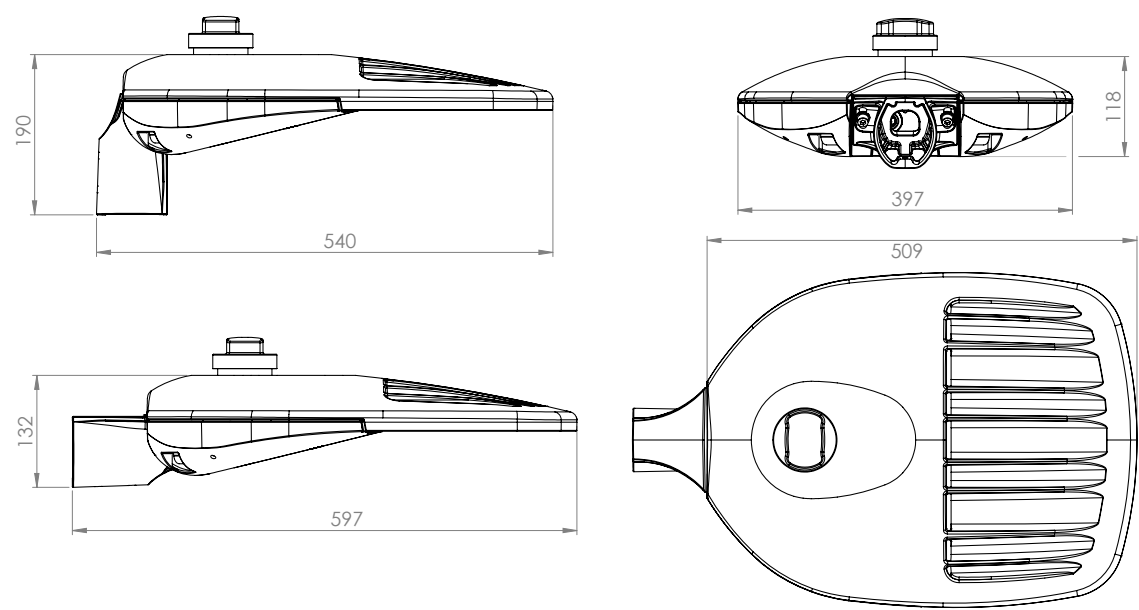


JGJ



JJJ

Dimensions (mm)



Order logic

Name	Gen.	Nominal Lumen (lm)*****	Optics*	CCT (K)	Option list	Accessories	Control	IEC Protection Classes	Precabbling	Mounting	Color
INS	1	4000	AAA	727 - 2700K 70 CRI	S [1] N [2]*** E [3]*****	NO - No Accessory	N - No control	C1 - Class I C2 - Class II	N - No precabbling Pxx - Precabbling with XX meters**	U48 - Universal 30-48mm U60 - Universal 42-60mm U76 - Universal 60-76mm	R7021 Rxxxx
		6000	BBB	730 - 3000K 70 CRI		FU - Fuse	D - DALI external				
		8000	CCC	740 - 4000K 70 CRI		SP - Extra surge protection	Yxx - Dynadim**				
		10000	DDD	750 - 5000K 70 CRI		FS - Fuse + extra surge protection	NLxx - No control+ CLO**				
		12000	EEE				DLxx - DALI+CLO**				
		14000	FFF				YLxx - Dynadim+ CLO**				
		16000	GGG								
			JJJ								

Example: INS1-8000EEE740-NNOD-C1NU60-R7021

- * all symmetric optic combinations are valid eg. ABA, but ABC is not
- ** x is integer number 0-9
- *** N from option list is only available with SP or FS from accessories
- **** E from option list is only available with the NO from accessories
- ***** Lumen output of the Luminaire can be programmed by the manufacturer in 100lm steps within the marked range. For valid combinations see below table

[1] Standard option. This version comes with the toolless opening feature and the toollessly replaceable geartray. All accessory combinations are valid with this option.

[2] NEMA socket option. This version comes with the toolless opening feature, the toollessly replaceable geartray and shorting cap. From the accessories list SP or FS can only be selected to protect your smart devices

[3] Eco version. This version comes with a precable and can not be opened. Parts are non-user replaceable. All accessory combinations are invalid for this option.

Nominal lumens table

2700K			3000K			4000K			5000K		
Lm	W	LPW	Lm	W	LPW	Lm	W	LPW	Lm	W	LPW
4000	32	126	4000	30	137	4000	28	146	4000	28	146
6000	45	135	6000	44	130	6000	44	137	6000	43	140
8000	64	126	8000	58	138	8000	56	144	8000	55	147
10000	83	121	10000	77	131	10000	73	138	10000	72	140
12000	102	119	12000	94	128	12000	90	134	12000	89	136
14000	119	116	14000	112	125	14000	107	132	14000	105	134
16000	-	-	16000	-	-	16000	119	130	16000	119	131



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Inlumino Size S GEN1 Datasheet – March 2021