

TUNGSRAM™

Innovation is our heritage
EST. 1896



INLUMINO

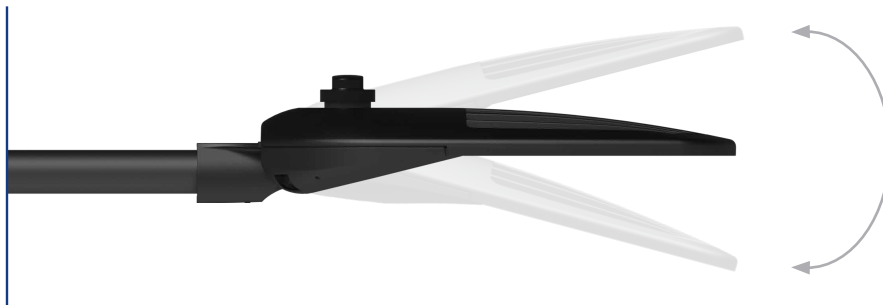
Smart road lighting family

tungshram.com





Only two hand-tools required for installing the fixture



Coupler can be adjusted in range of 30°

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 M

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: IK08 (glass) / IK09 (housing)

Electrical

Input voltage and frequency: 220-240V, 50-60Hz
IEC protection class: Class I, Class II Driver
immunity: 10kV/5kA
Rated input power: 92-187W
Power factor > 0.95

Installation and maintenance

Mounting options:

- Side mounting coupler for 30-76mm diameters and 30° tilt options
- Post top mounting coupler for 30-76mm diameters and 30° tilt options
- Weight: 9 kg
- Recommended mounting height: 8-18 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 13900 up to 25800 lm
- Rated luminaire efficacy: From 128 up to 163lm/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

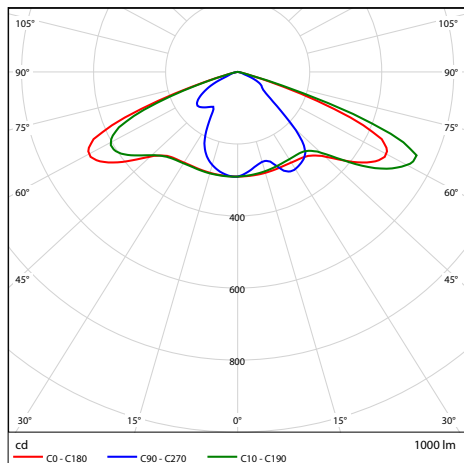
Standards and regulation

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

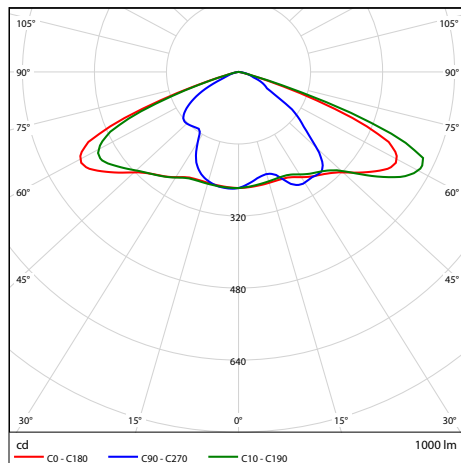
Other options available

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

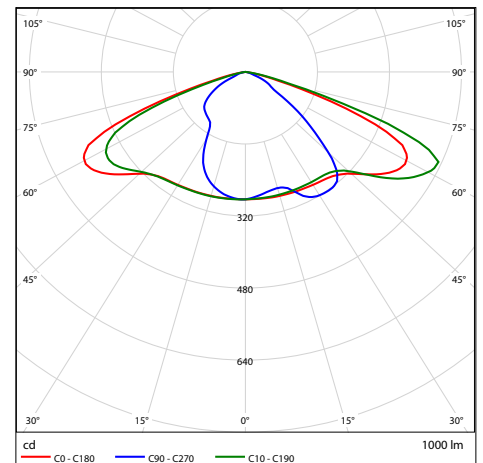
Typical photometric features



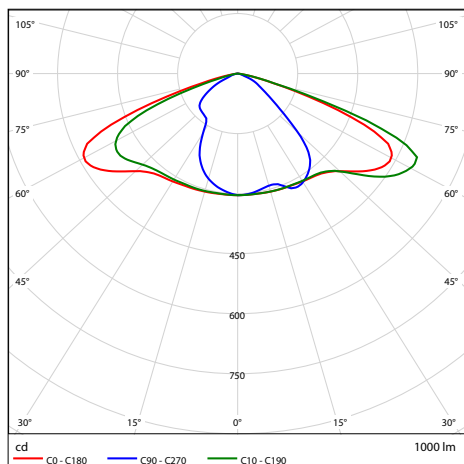
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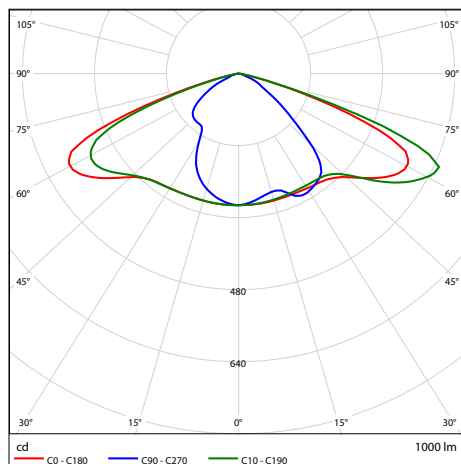
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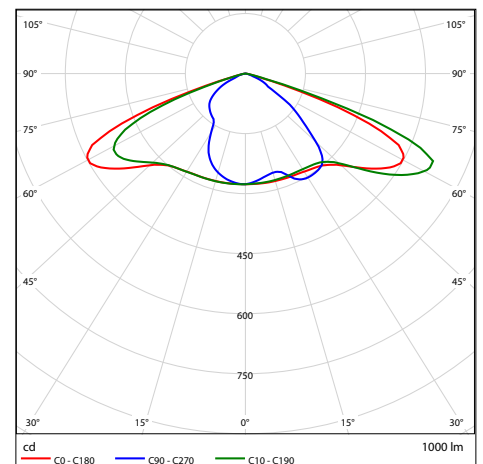
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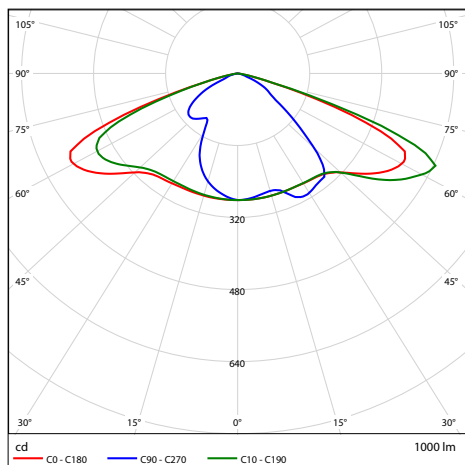
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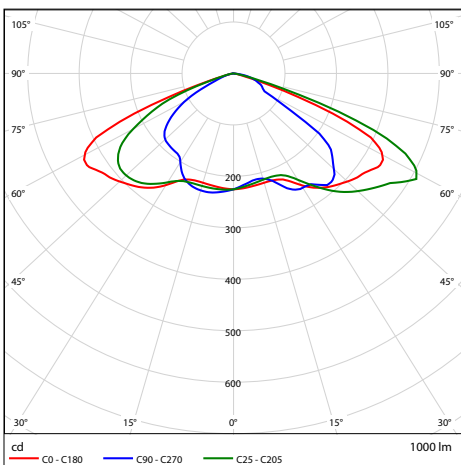
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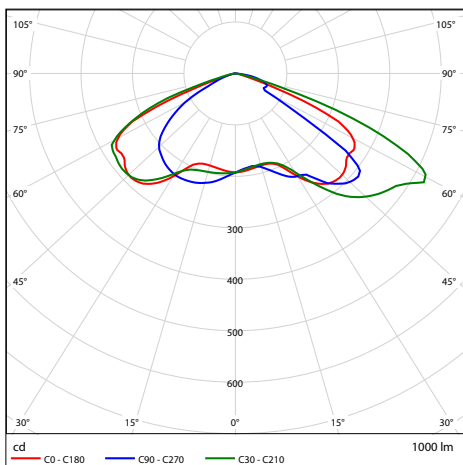
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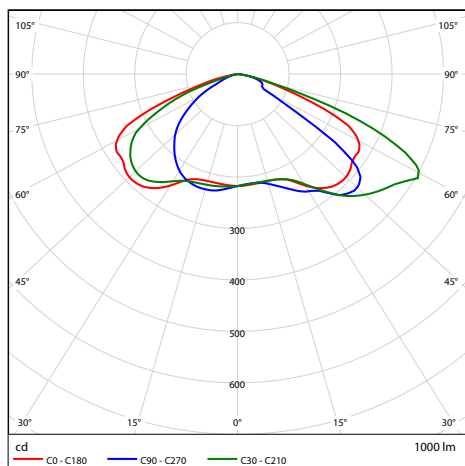
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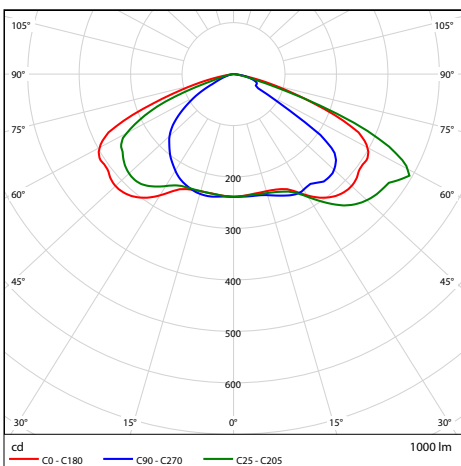
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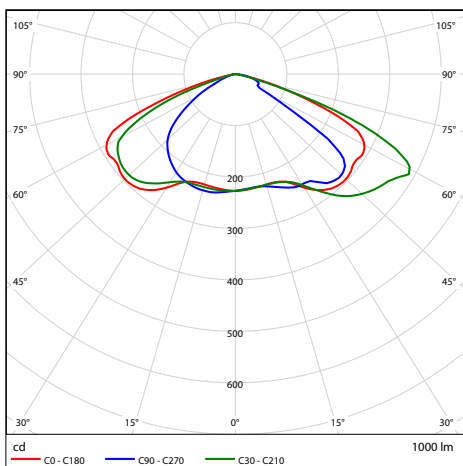
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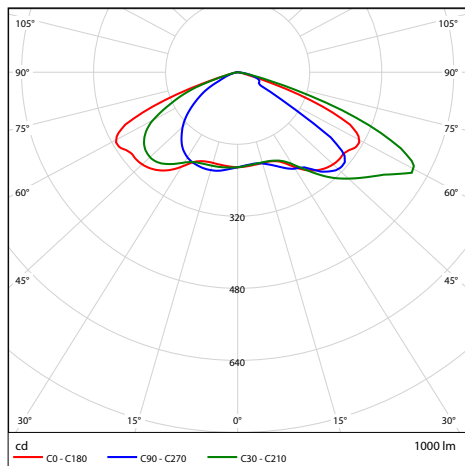
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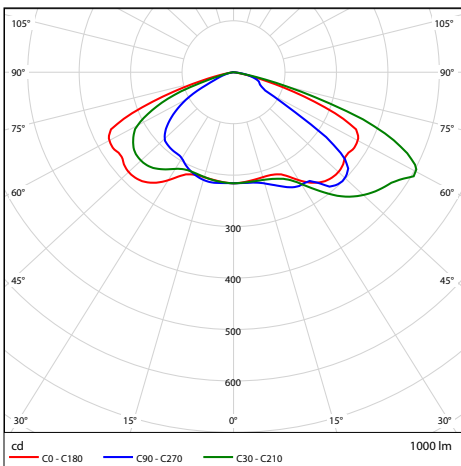
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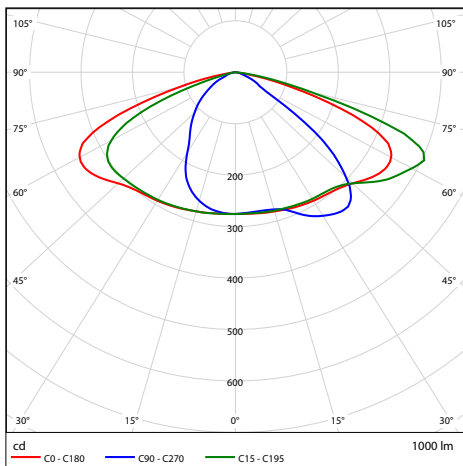
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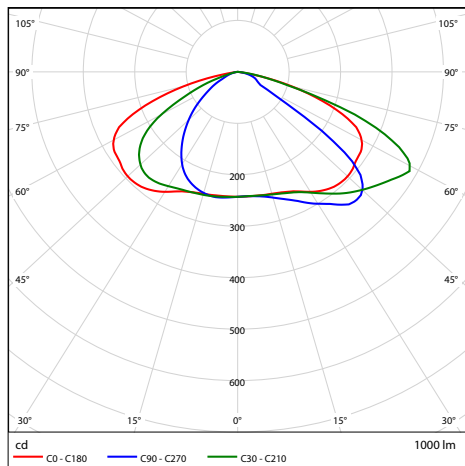
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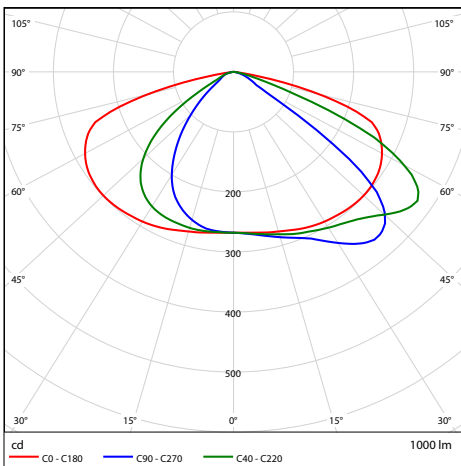
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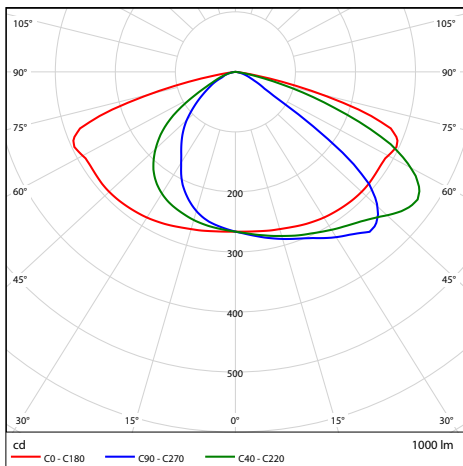
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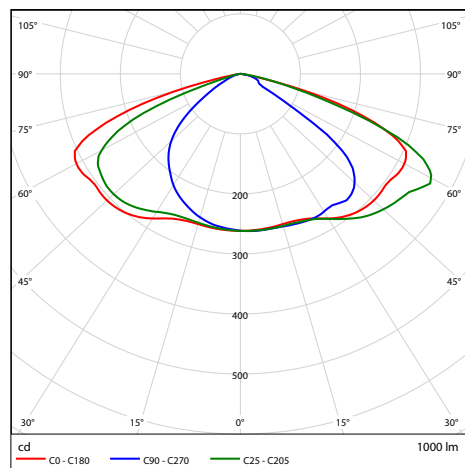
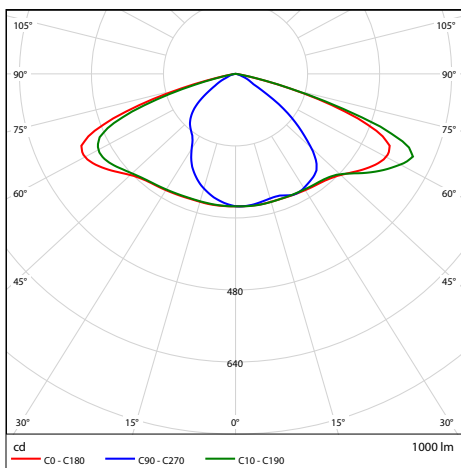
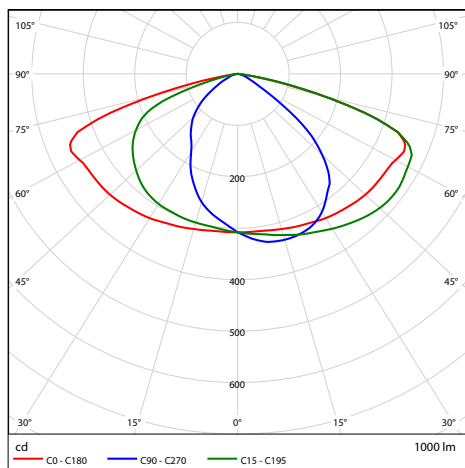
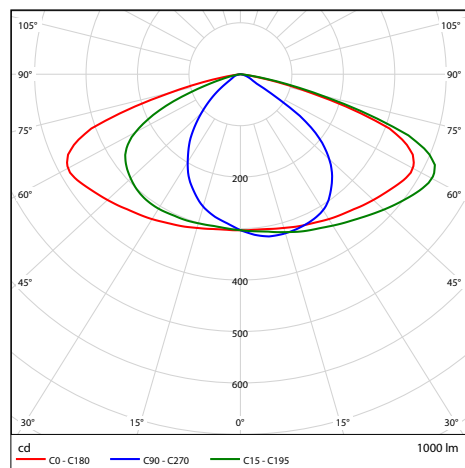
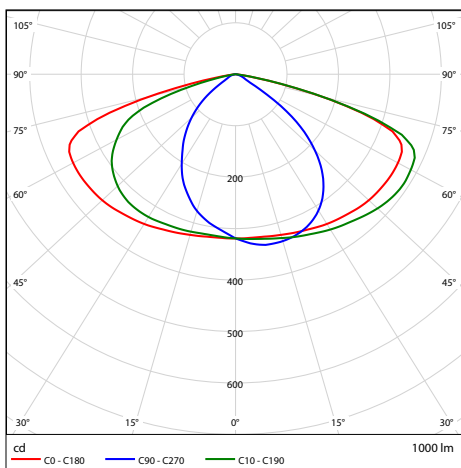
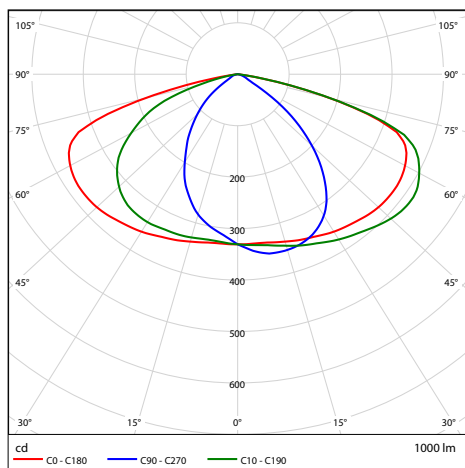
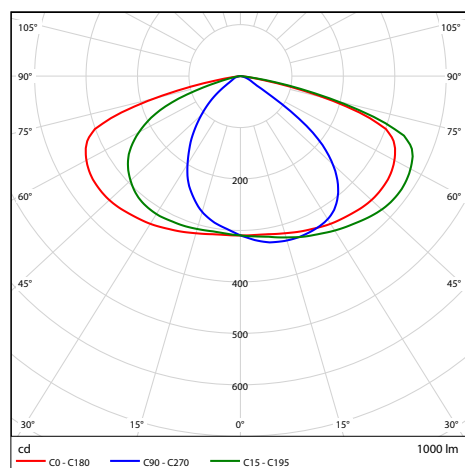
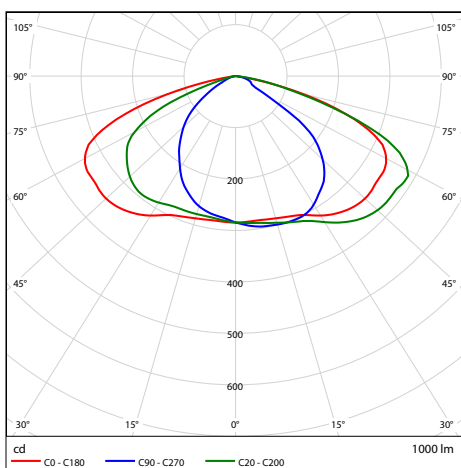
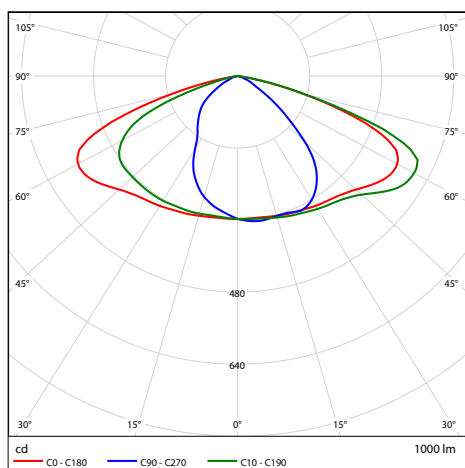
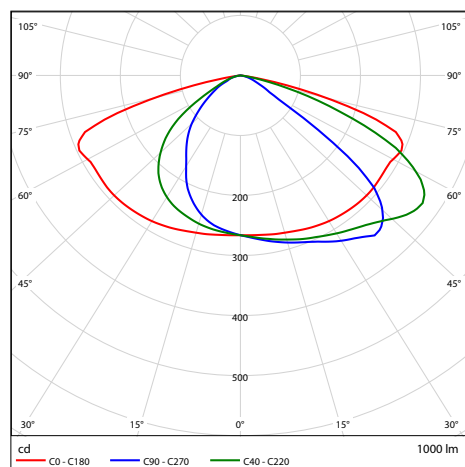
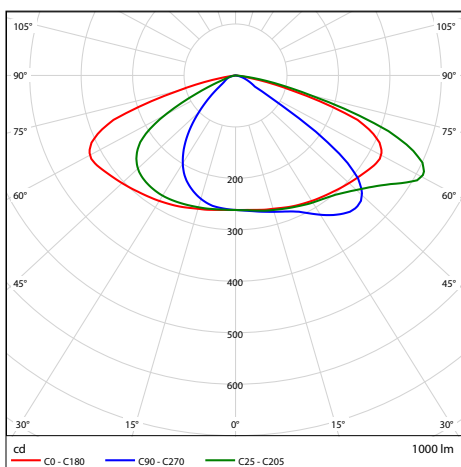
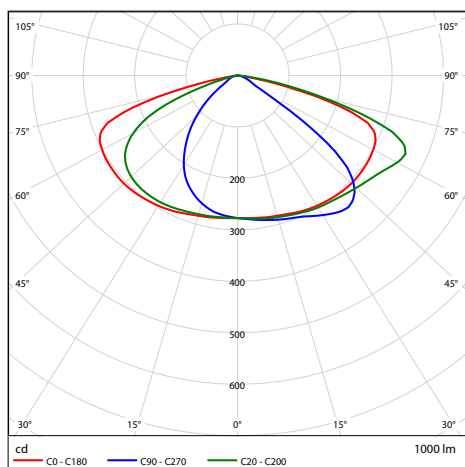
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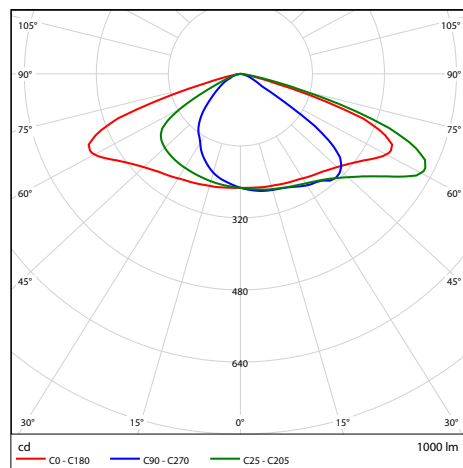
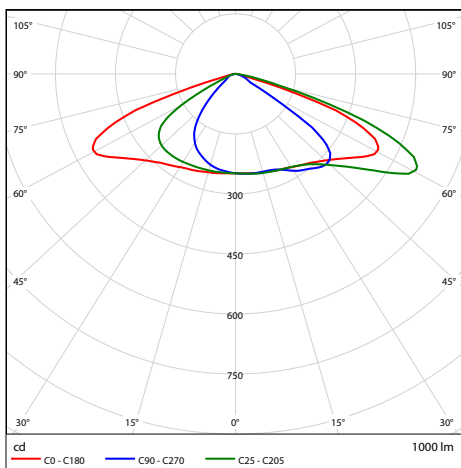
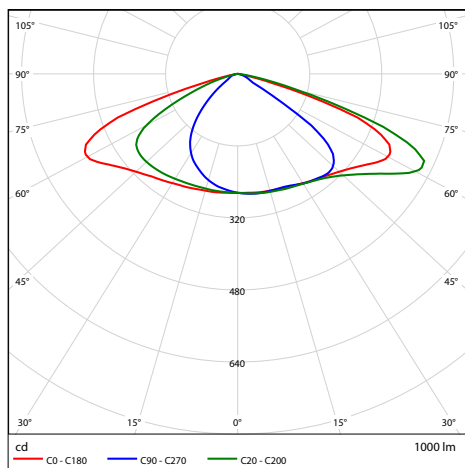
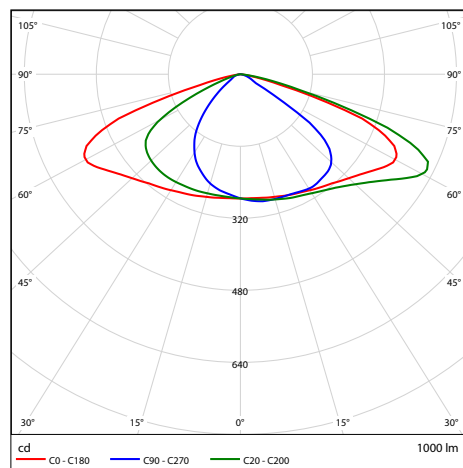
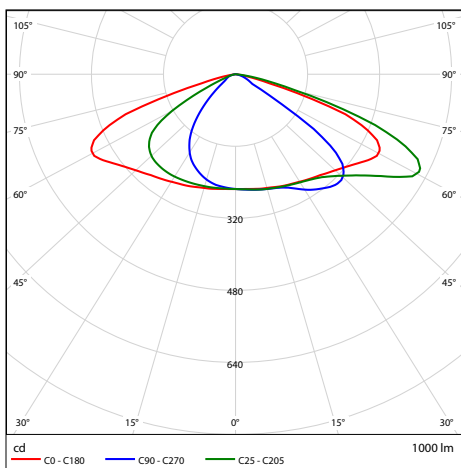
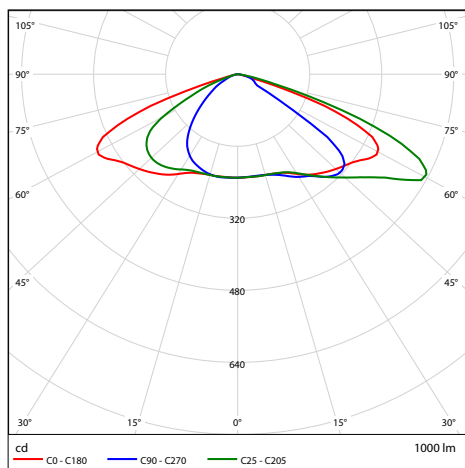
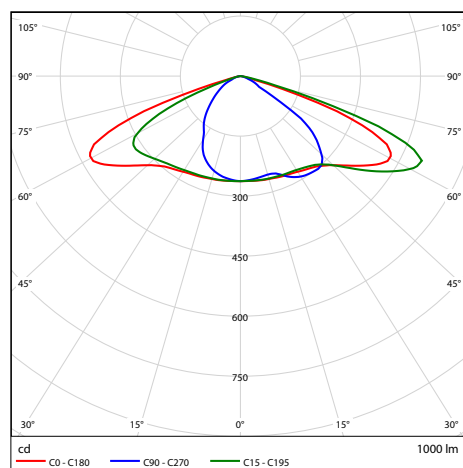
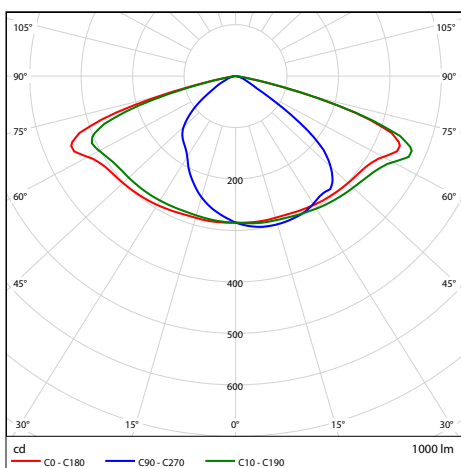
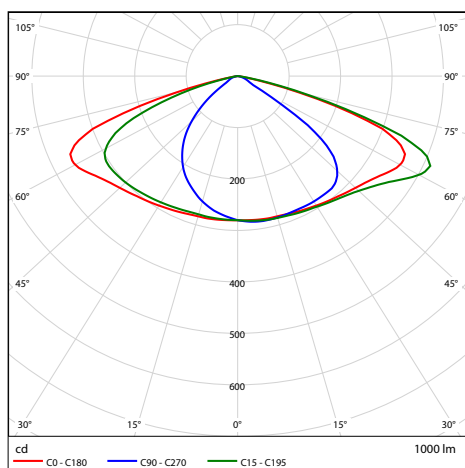
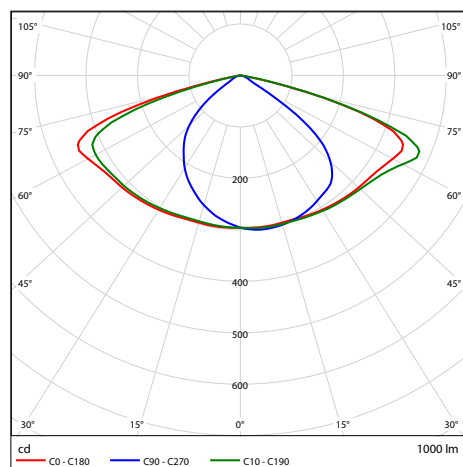
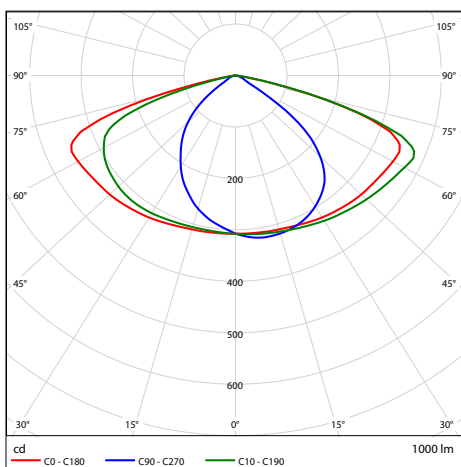
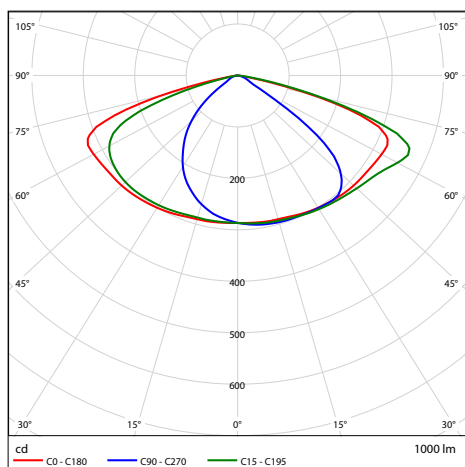


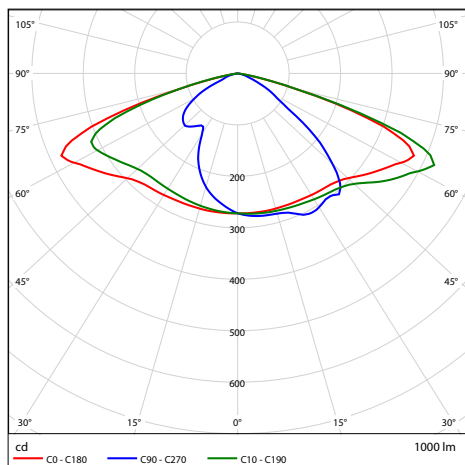
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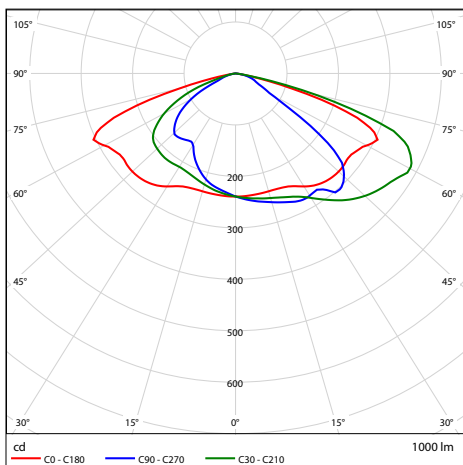
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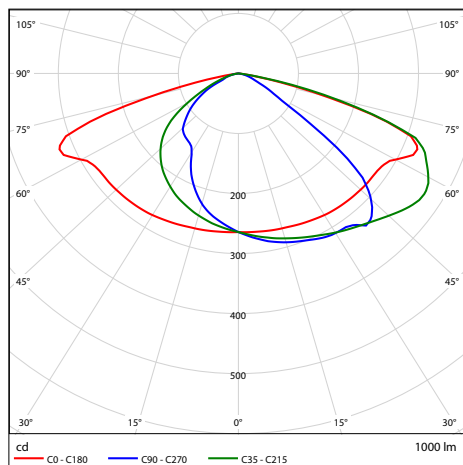




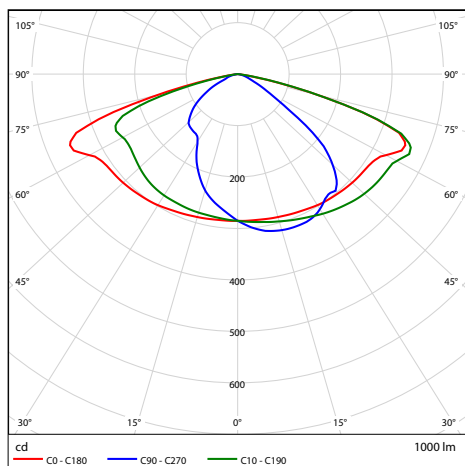
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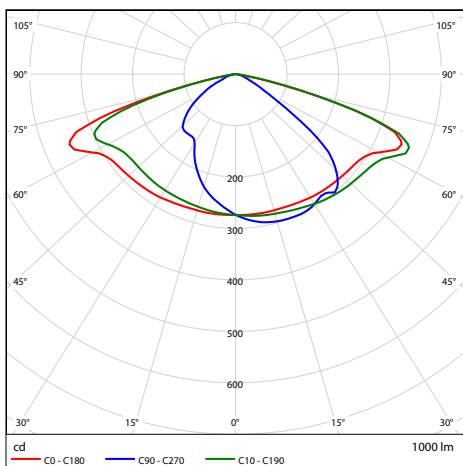
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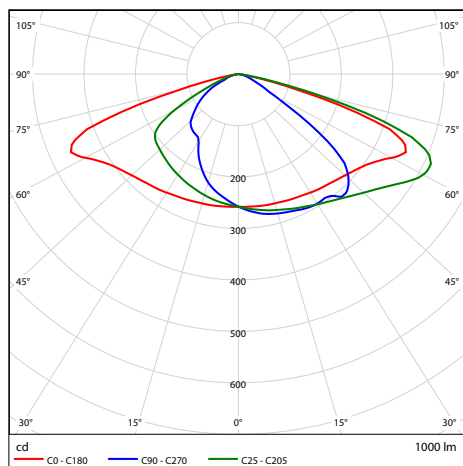
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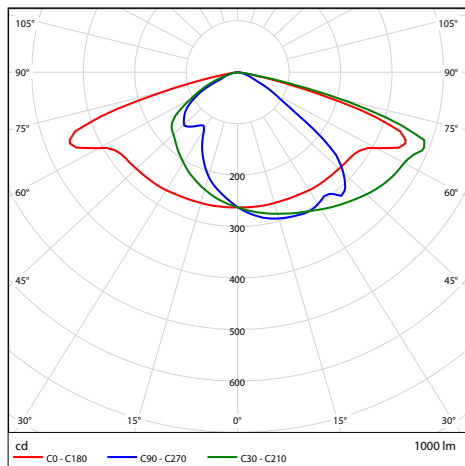
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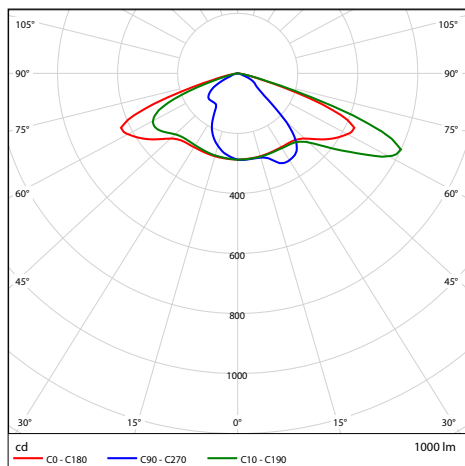
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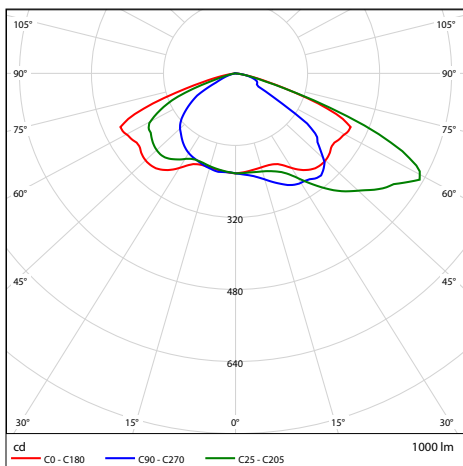
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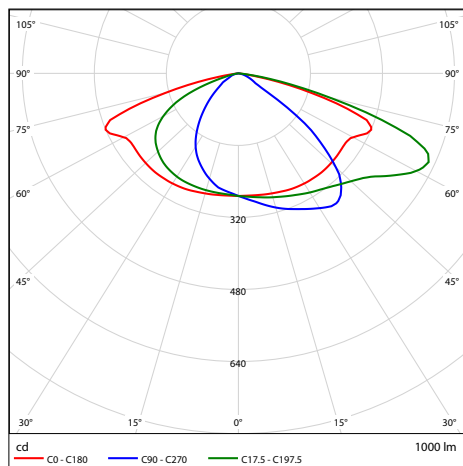
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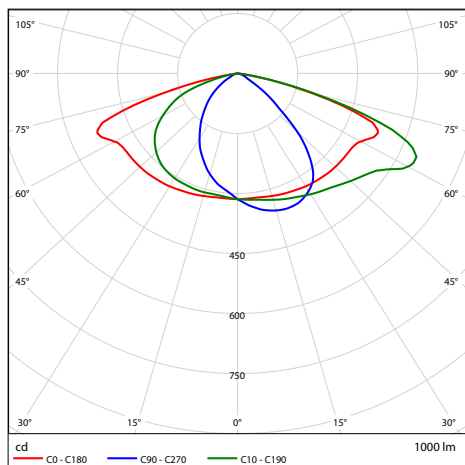
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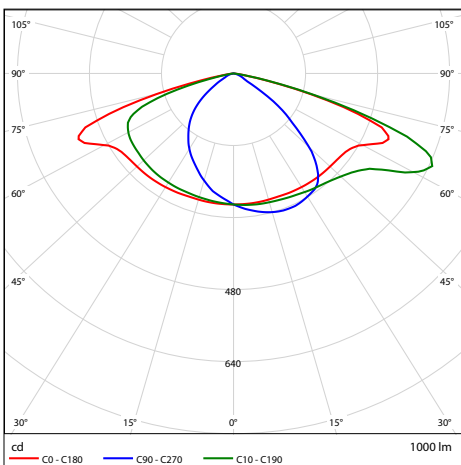
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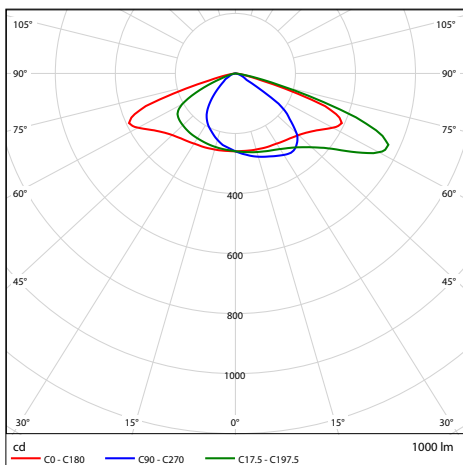
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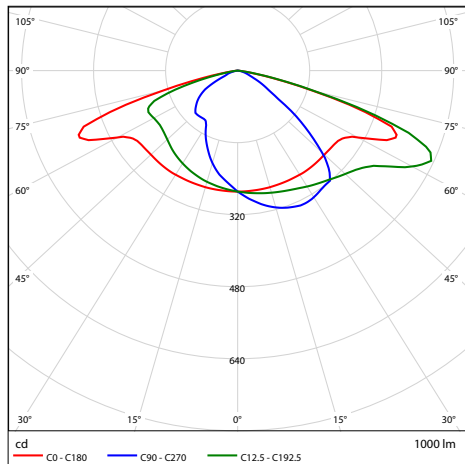
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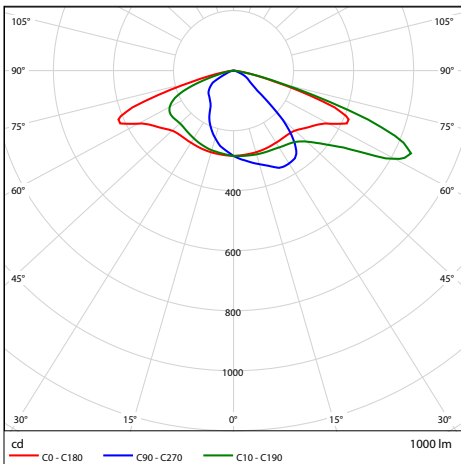
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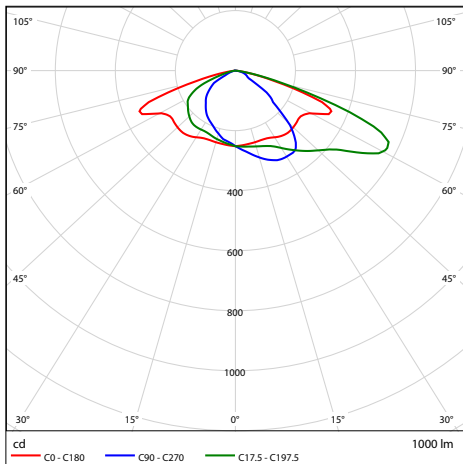
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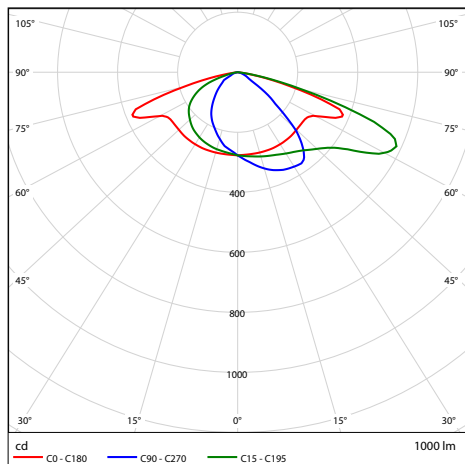
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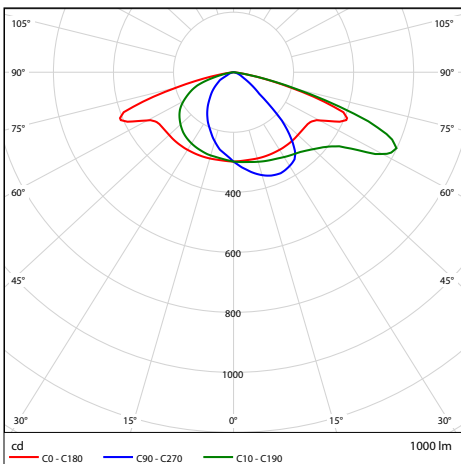
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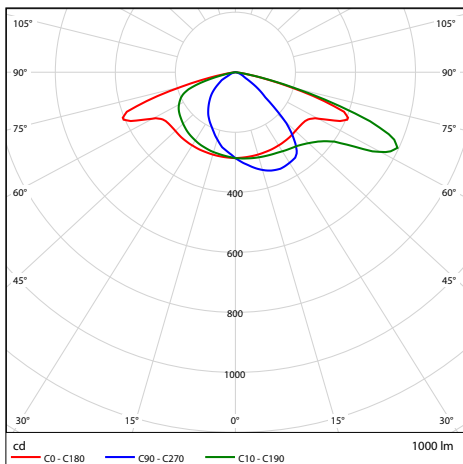
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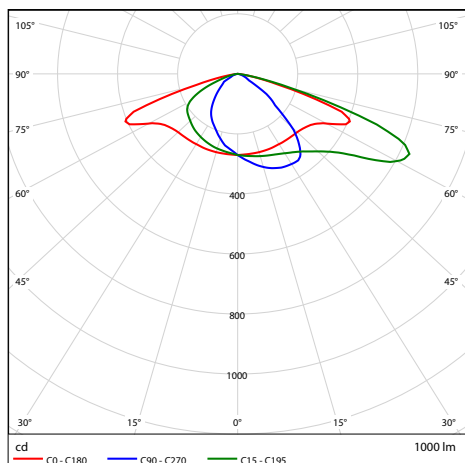
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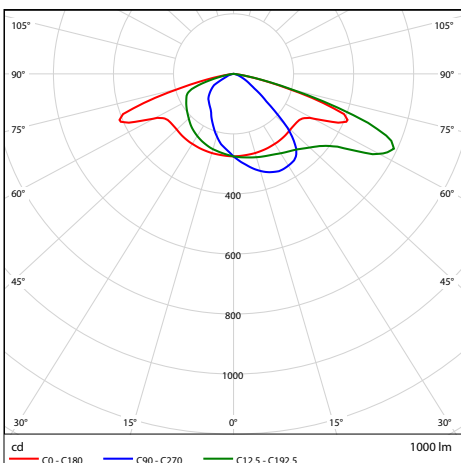
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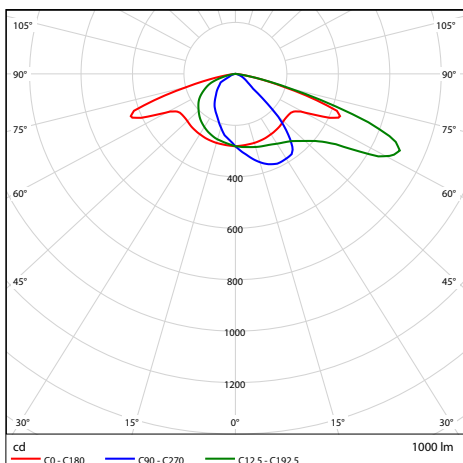
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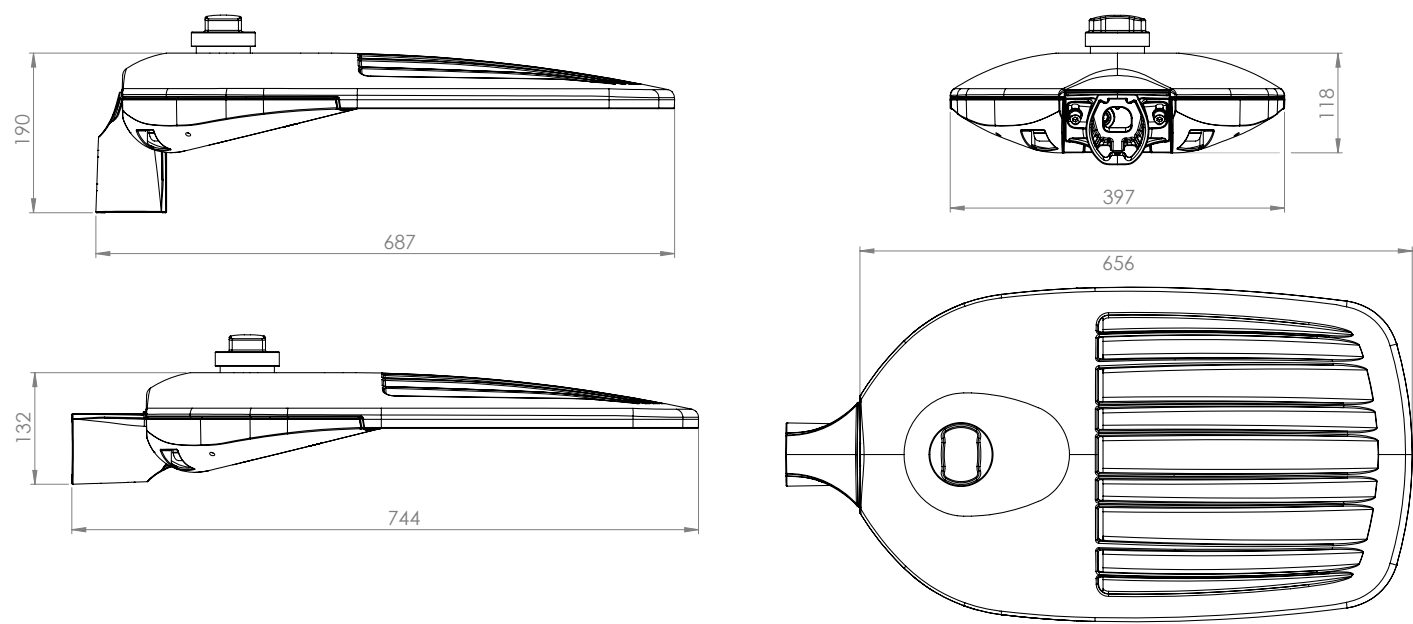


JJJ



JJJ

Dimensions (mm)



Order logic

Name	Gen.	Nominal Lumen (lm)*****	Optics*	CCT (K)	Option list	Accessories	Control	IEC Protection Classes	Precabbling	Mounting	Color
INM	1	14000	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
		16000	BBB	730 - 3000K 70 CRI		FU - Fuse	D - DALI external				
		18000	CCC	740 - 4000K 70 CRI		SP - Extra surge protection	Yxx - Dynadim**				
		20000	DDD	750 - 5000K 70 CRI		FS - Fuse + extra surge protection	NLxx - No control+ CLO**				
		22000	EEE				DLxx - DALI+CLO**				
		24000	FFF				YLxx - Dynadim+ CLO**				
		26000	GGG								
			JJJ								

Example: INM1-22000CCC740-SNOD-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 the within 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
14000	102	138	14000	95	148	14000	90	157	14000	88	159
16000	121	133	16000	111	146	16000	105	154	16000	104	156
18000	141	128	18000	130	140	18000	122	149	18000	119	152
20000	161	124	20000	148	136	20000	139	144	20000	137	146
22000	183	121	22000	166	134	22000	159	140	22000	155	142
24000	-	-	24000	185	129	24000	175	138	24000	172	140
26000	-	-	26000	-	-	26000	185	136	26000	185	137

