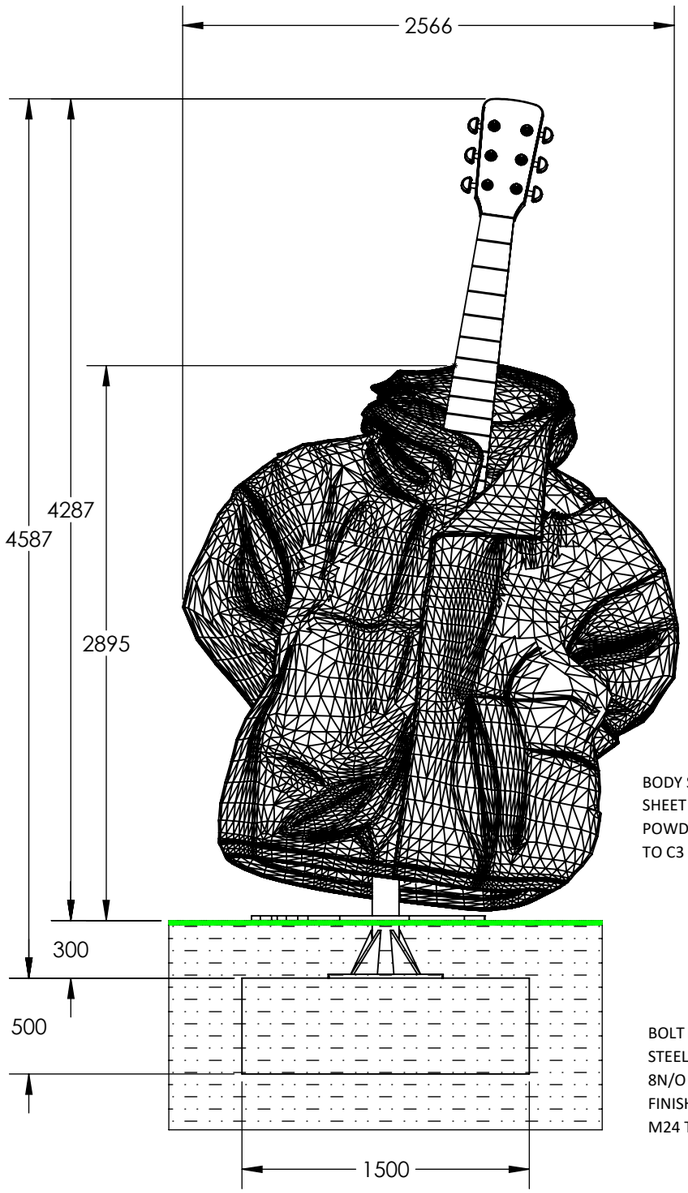


10mm FIBERGLASS
SCULPT AFFIXED TO
INTERNAL STEEL
ARMATURE STRUCTURE

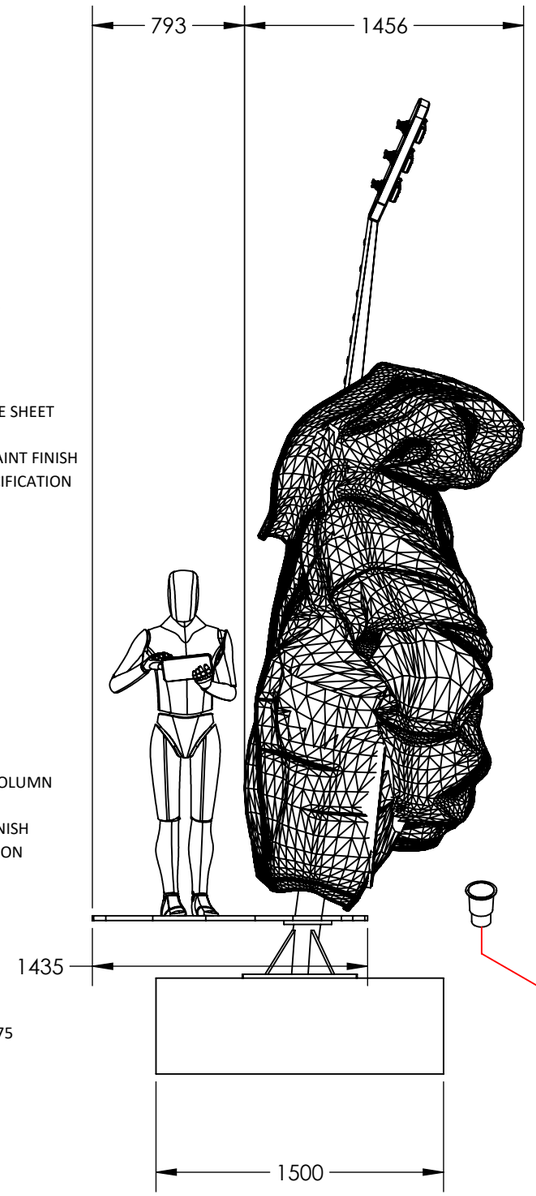
NECK/ HEAD STRUCTURE SHEET
STEEL GRADE S355
POWDERCOAT / WET PAINT FINISH
TO C3 CORROSION SPECIFICATION

BODY STRUCTURE/ CENTRAL COLUMN
SHEET STEEL GRADE S355
POWDERCOAT / WET PAINT FINISH
TO C3 CORROSION SPECIFICATION

BOLT POST GRADE S355 or S275
STEEL
8N/O GRADE 8.8 STUDS BZP
FINISH
M24 TYPICAL

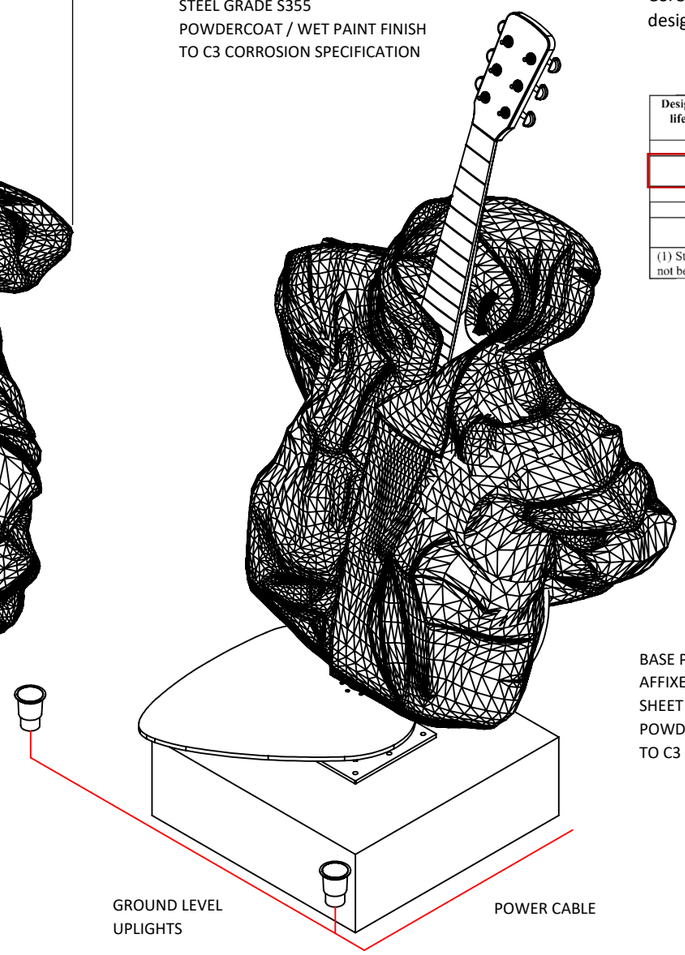
RC PAD FOUNDATION
TYPICAL R16 REBAR 200mm
CENTRES OR SIMILAR
MIN 50mm COVER

FRONT - ELEVATION



SIDE - ELEVATION

HEADSTOCK BOLT ON DECORATIVE ITEMS
STEEL GRADE S355
POWDERCOAT / WET PAINT FINISH
TO C3 CORROSION SPECIFICATION



BASE PLATE SELF SUPPORTING
AFFIXED TO CENTRAL COLUMN
SHEET STEEL GRADE S355 BLACK
POWDERCOAT / WET PAINT FINISH
TO C3 CORROSION SPECIFICATION

GROUND LEVEL
UPLIGHTS

POWER CABLE

Design Notes:

Structures shall be designed and assessed to the following applicable standards Principally;

-
Eurocode 0: Basis of structural design (EN 1990)
Eurocode 1: Actions on structures (EN 1991)
Eurocode 3: Design of steel structures (EN 1993)
Eurocode 7: Geotechnical design (EN 1997)
Eurocode 9 : Design of aluminium structures (EN 1999)

As detailed in EN1990
Core structural elements will be designed with an indicative design working life as shown below

Table 2.1 - Indicative design working life

Design working life category	Indicative design working life (years)	Examples
1	10	Temporary structures (1)
2	10 to 25	Replaceable structural parts, e.g. gantry girders, bearings
3	15 to 30	Agricultural and similar structures
4	50	Building structures and other common structures
5	100	Monumental building structures, bridges, and other civil engineering structures

(1) Structures or parts of structures that can be dismantled with a view to being re-used should not be considered as temporary.

The drawings presented are visual concepts to be used for bidding purposely only and are not to be used for construction.
Any notes on construction or materials are indicative, and are to be used to communicate design or finishing intent only.
The designer will not assume responsibility for improper construction, use or handling of structure, structural or scenery elements.
All materials must comply with applicable local and regional structural, construction and fire and safety codes.

NOT FOR CONSTRUCTION

DO NOT SCALE FROM THIS DRAWING.
All dimensions must be checked on site prior to the commencement of installation. Any errors or omissions must be brought to the attention of the designer.
IF IN DOUBT ASK.

PROJECT: NS2515_GUITAR_PARK			
CLIENT: COOP_LIVE			
VENUE: COOP_LIVE			
TITLE:			
SCALE: 1:32	ORIGINAL SIZE: A3	DRAWN: JamesMartin	REV: A
DRG DATE: 12/06/2025	DWG No: **NS2515_03_CONSTRUCTION_DETAIL**		

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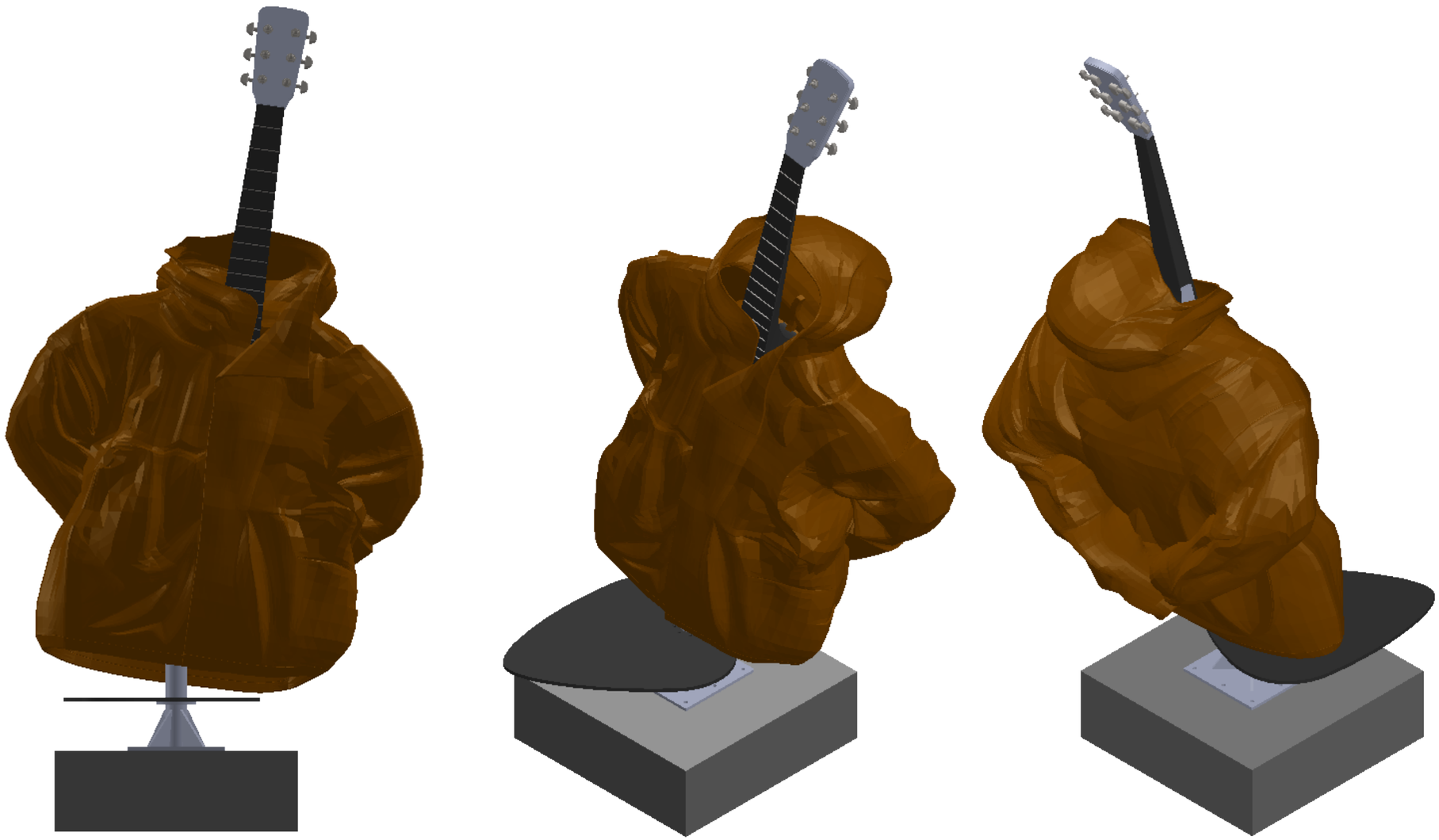
WWW.NEWSUBSTANCE.CO.UK



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PROJECT: NS2515_GUITAR_PARK			
CLIENT: COOP_LIVE			
VENUE: COOP_LIVE			
TITLE:			
SCALE: 1:30	ORIGINAL SIZE: A3	DRAWN: JamesMartin	REV: A
DRG DATE: 12/06/2025	DWG No: **NS2515_03_CONSTRUCTION_DETAIL**		

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Radiis 109

Radiis 109 - 5747828980

The fixture emits even, channelled light. Three types of light systems – zoom, lens and reflectors – together with direction adjustment options and colour and light filters, make it possible to illuminate buildings, vegetation, signs, etc. in an effective and interesting way, while promoting a sense of security.

Zoom

Product info

Information

An installation sleeve must be used (ordered separately). IP66: Can withstand water pressure of 100 kN/m2 from a distance of 3 m for 3 minutes. IP67: Temporary immersion in water (30 minutes at 1m) Holder ring for accessories must be used with the high-output version. Reflector options depend on the fixture type. It is therefore not possible to choose all reflectors for all fixture types. The innovation of the LED technology is constant. The specifications mentioned are based on present technology.

Mounting

An installation sleeve must be used (ordered separately). The IP68 driver box/connection box is pre-mounted with sealed wiring and IP68 connectors. The connecting cable terminates with an IP68 connector (supplied) for cable type H07RN-F Ø7-12mm (2x2.5mm2). Certified to withstand load of up to 2,000 kg.

Finish

Glass, stainless steel.

Materials

Housing: Injection moulded anodised aluminium. Top ring: Brushed stainless steel, 316L. Glass: Extra clear, hardened glass. Driver box: Synthetic. Installation sleeve: Synthetic.

Sizes and weights

Width x Height x Length (mm) | 161 x 2 x 161 Max 1.9 kg | 165 x 2 x 165 Max 1.8 kg

Class

Ingress protection IP66, IP67. IK10. Electric shock protection II wo. ground, III.

Light source

LED 3000K 14W
Lumen: 748

Information

An installation sleeve must be used (ordered separately).
IP66: Can withstand water pressure of 100 kN/m2 from a distance of 3 m for 3 minutes.
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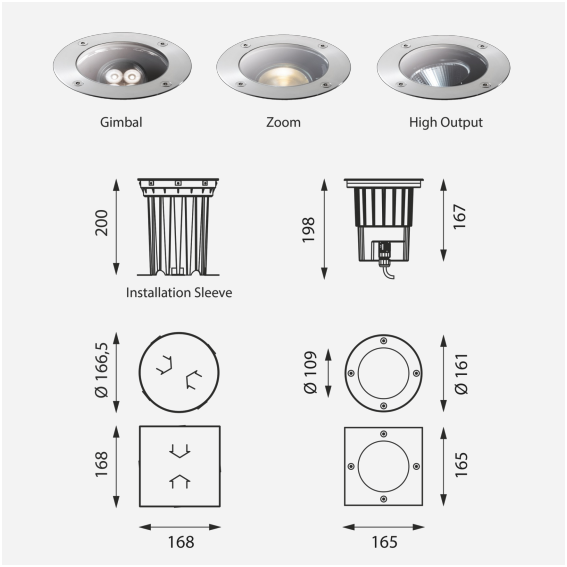
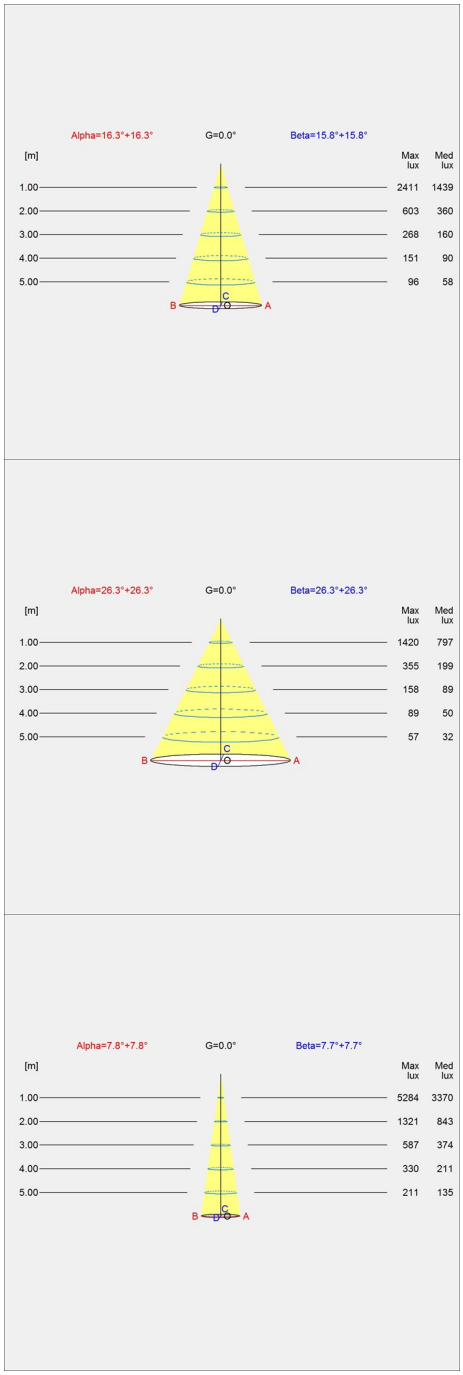


Product family

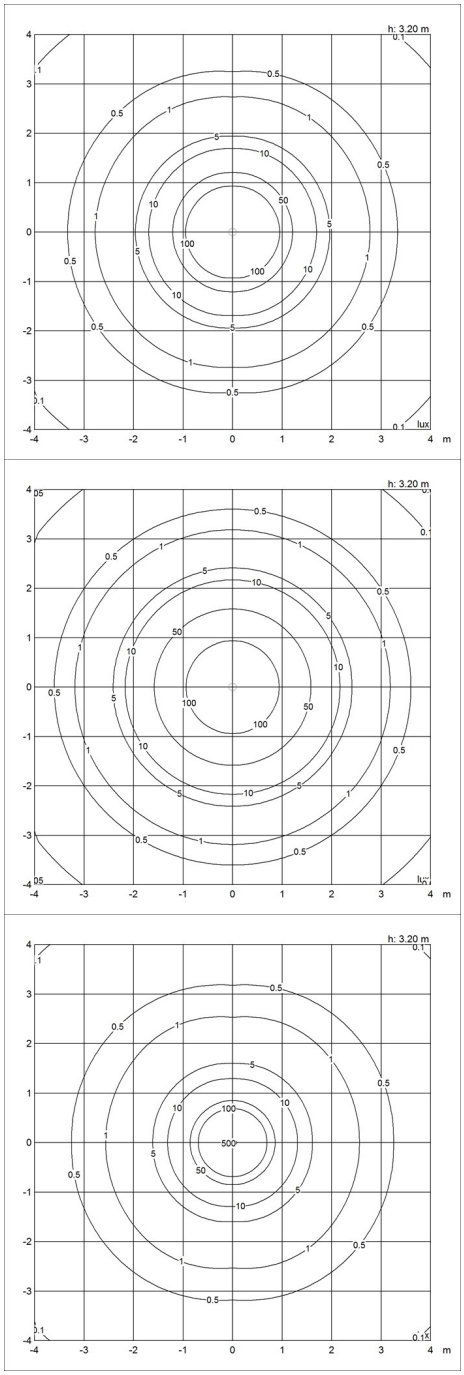
Radiis 210

Light distribution diagrams

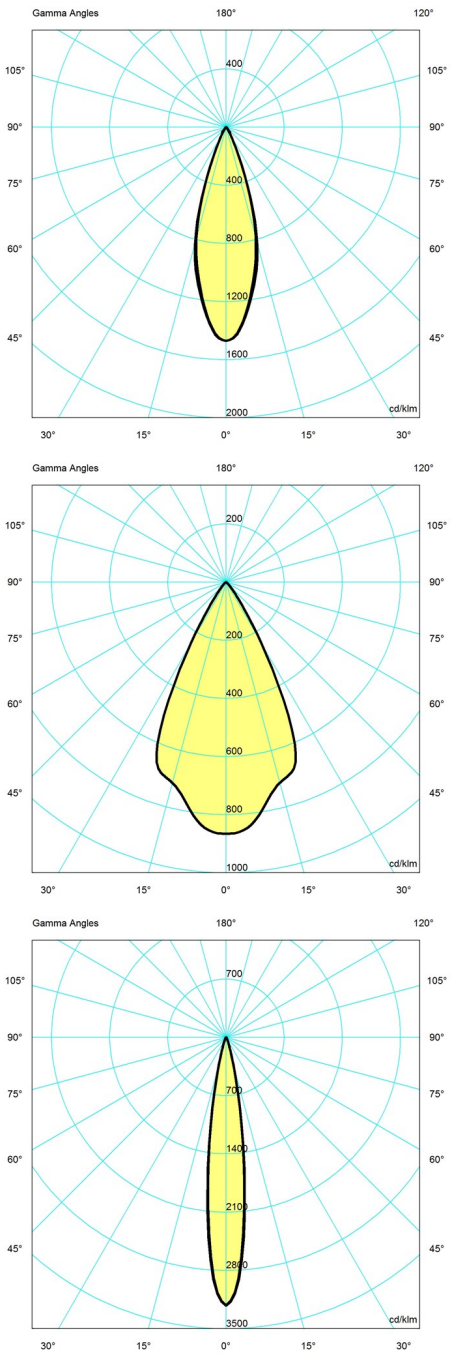
Cartesian



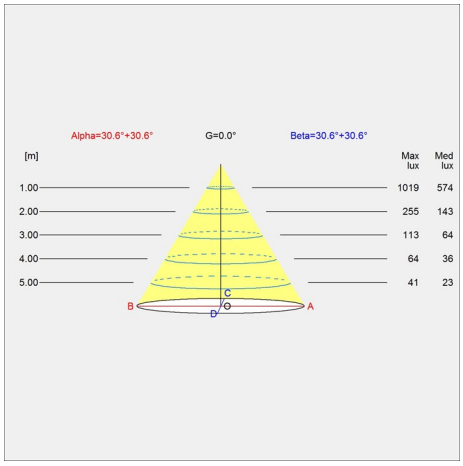
Isolux



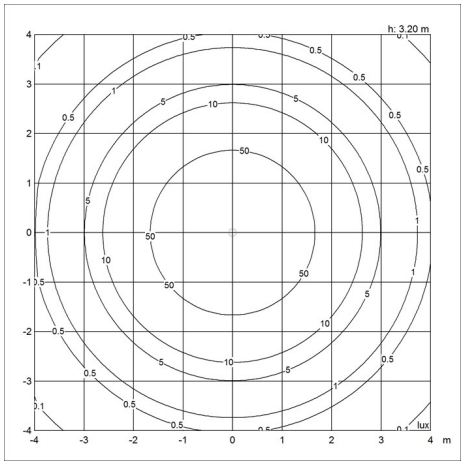
Polar



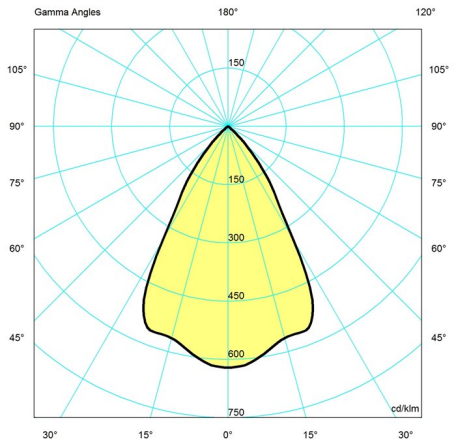
Cartesian



Isolux



Polar



Spare parts & accessories

Product	Variant number
RADIIS 109 INSTALLATION SLEEVE	5747828511
RADIIS 109 INST SLEEVE FOR SQUARED FLUSH	5747828524
RADIIS 109 ANTI GLARE SHADE	5747828537
RADIIS 109 HANDLE FOR FIXTURE REMOVAL	5747828540
Radiis Ø109 round ring brushed steel	5747828553
Radiis Ø109 squared ring brushed steel	5747828566
RADIIS 109 CHROMATIC FILTER RED	5747828773
RADIIS 109 CHROMATIC FILTER GREEN	5747828786
RADIIS 109 CHROMATIC FILTER BLUE	5747828799
RADIIS 109 CHROMATIC FILTER YELLOW	5747828809
RADIIS 109 CHROMATIC FILTER MAGENTA	5747828812
RADIIS 109 CORRECTIVE FILTER COLD	5747828825
RADIIS 109 CORRECTIVE FILTER GOLD	5747828838
RADIIS 109 CORRECTIVE FILTER PEACH	5747828841
RADIIS 109 SPREADING LENS	5747828854
RADIIS 109 BEEHIVE LATTICE	5747828867
RADIIS 109 HE HOLDER RING	5747828870
Radiis torx L-Key T30	5747828896
Radiis connector IP68 4P 15MM	5747828919
Radiis connector IP68 1in-3out 4P 15MM	5747828922
Radiis sucker	5747828935
Radiis Ø109 driver 70W 48V DC	5747828948
Radiis Ø109 driver 150W 48V DC	5747828951
Radiis Ø109 driver 240W 48V DC	5747828964
Radiis Ø109 driver 480W 48V DC	5747828977
RADIIS 109 INST. SLEEVE EXTENSION	5747829471

Data specifications

Radiis 109

Colour	**Stainless steel**	Length	**161**
Width	**161**	Height	**2**
IP class	**66**	IK class	**10**
Class	**II**	Net Weight	**1.9**
Wind Load (m2)	-	Standby (W)	-
Power Factor (P = 100 % / P = 50 %)	-	Inrush Current	-
Light source	**LED 3000K 14W**	Kelvin	**3000**
CRI	**80**	SDCM	-
Lumen	**748**	Watt	**14**
Efficacy	**53**	Light control	-
Min. Dim Level (%)	-	Surge Protection	-
BUG Rating	**B1 U0 G0**	L80B50 (hours)	-
Driver life	-		