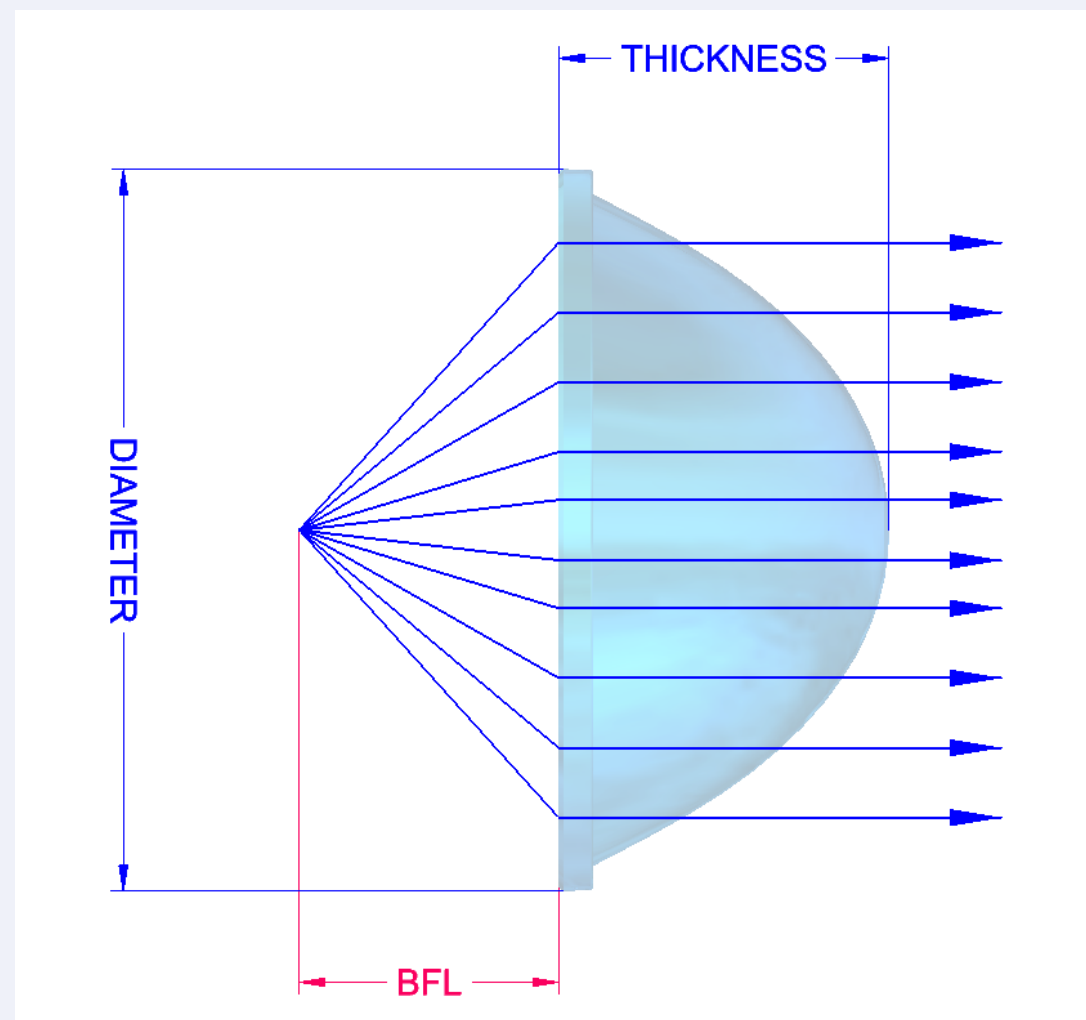


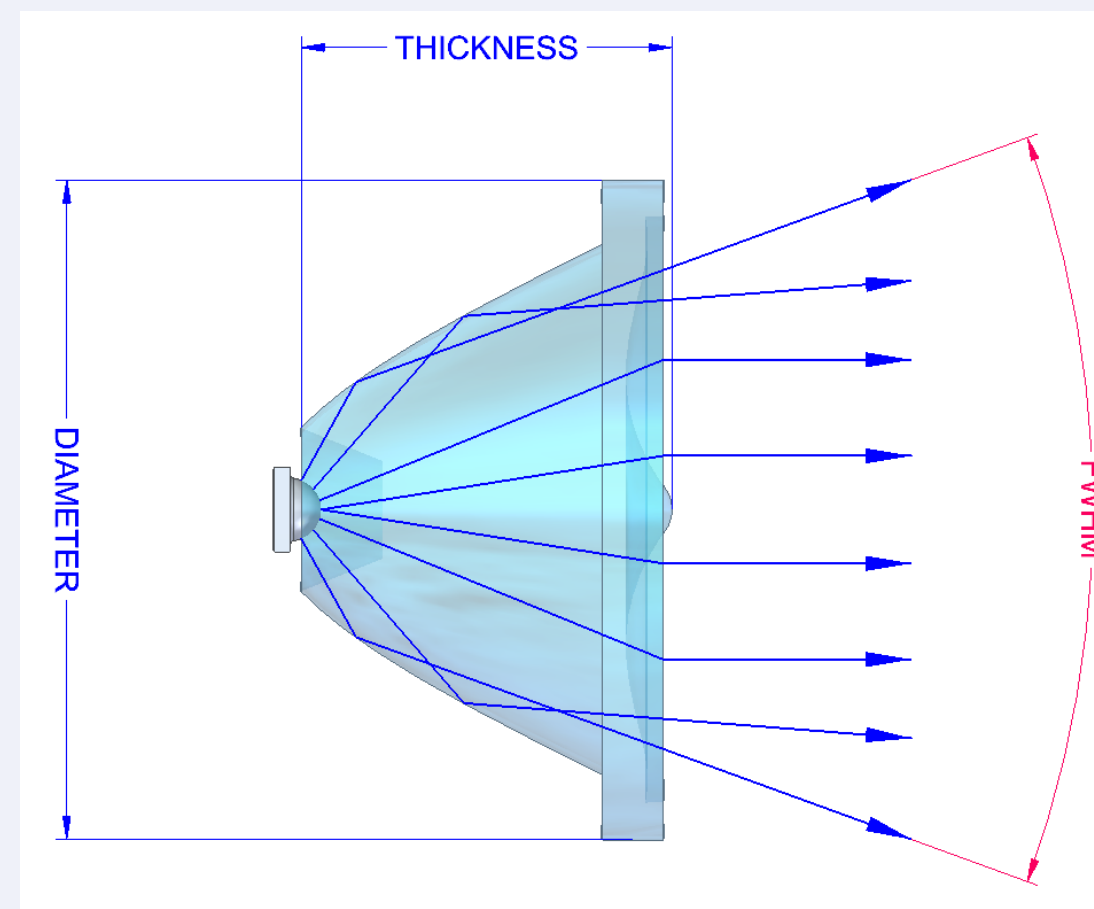
ECOGLASS

LENS CATALOGUE

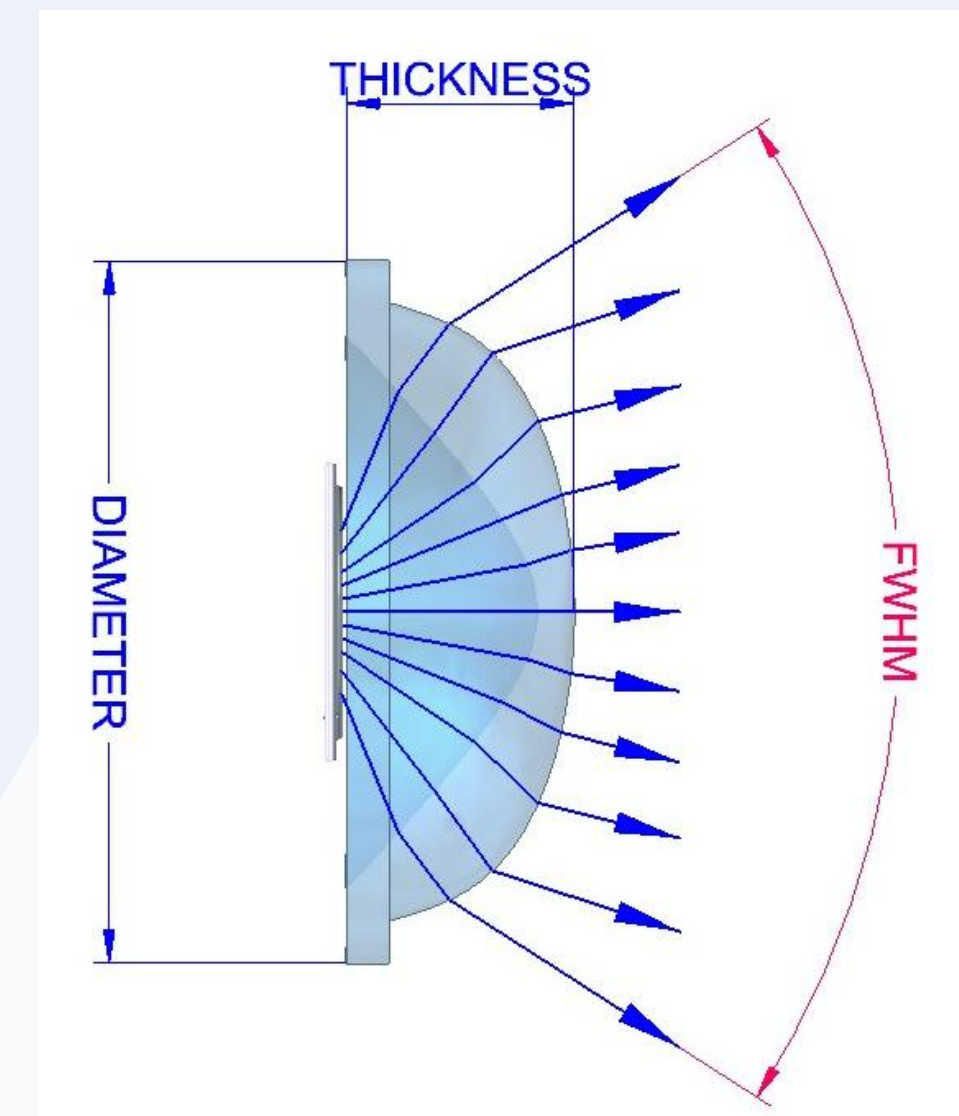
ASPHERICAL LENSES



TIR LENSES



CAVITY LENSES

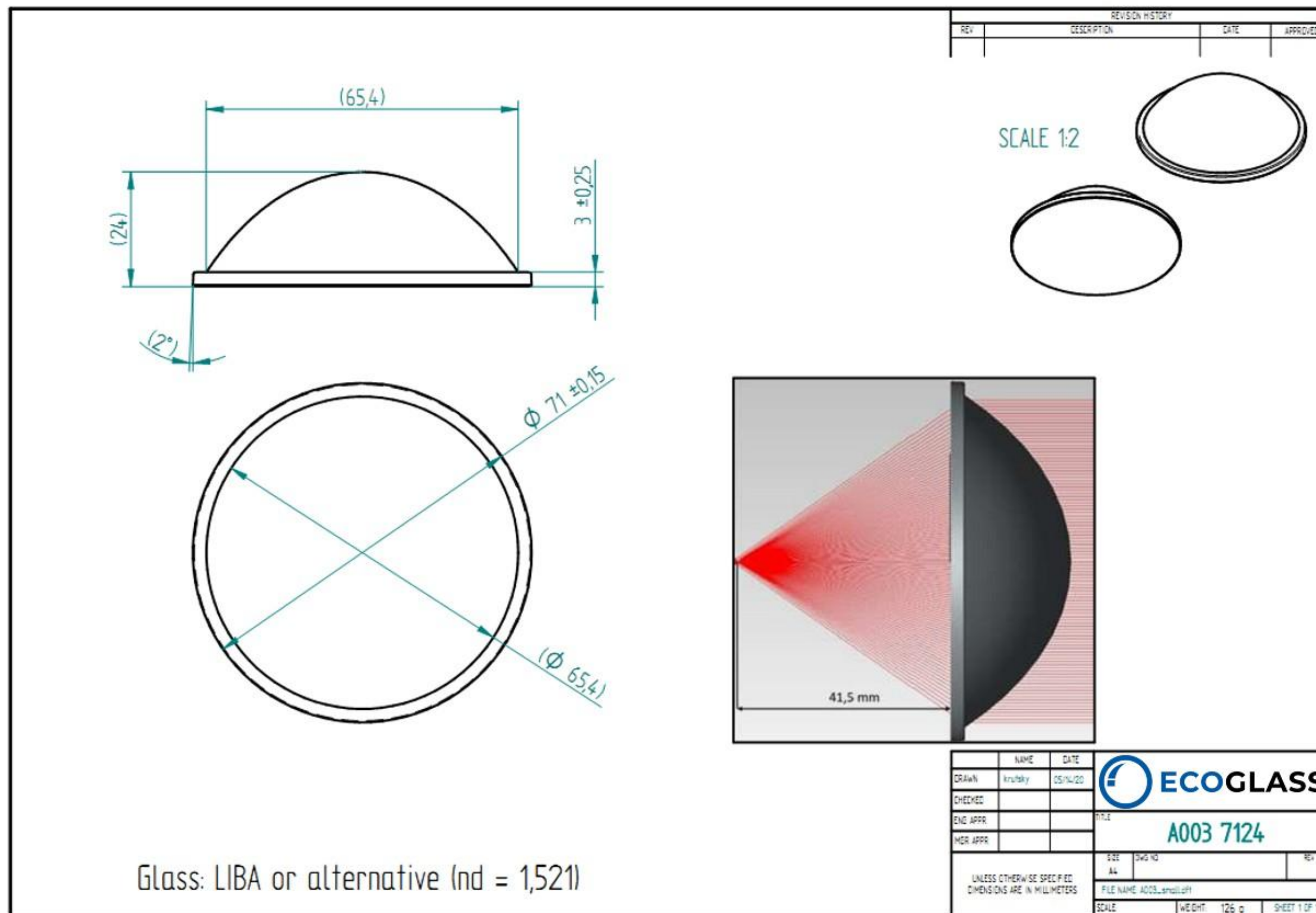


ECOGLASS Aspherical Lenses

ECOGLASS code	Lens type	BFL (mm)	Diameter (mm)	Thickness (mm)	ECOGLASS code	Lens type	BFL (mm)	Diameter (mm)	Thickness (mm)
A003 7124	Plano-convex	41,5	71,0	23,8	A182 1506	Plano-convex	14,3	15,0	5,2
A010 6515	Plano-convex	67,3	65,0	14,5	A194 1506	Plano-convex	8,6	15,0	5,6
A011 4512	Plano-convex	35,3	45,0	12,0	A196 7120	Plano-convex	53,5	70,4	19,7
A016 4923	Plano-convex	21,1	49,0	23,0	A234 7733	Plano-convex	38,0	77,0	33,0
A019 5322	Plano-convex	25,0	53,0	21,26	A373 4508	Plano-convex	67,2	46,0	8,4
A034 1807	Plano-convex	10,4	18,0	6,7	A413 1206	Plano-convex	6,3	12,0	6,0
A053 1807	Plano-convex	8,4	18,0	7,4	A501 2207	Plano-convex	10,0	22,0	6,9
A068 6015	Plano-convex	53	59,8	15,0	A581 2808	Plano-convex	25,0	28,0	8,0
A071 5224	Plano-convex	18,6	51,8	23,7	A582 7522	Plano-convex	53,2	75,2	22,2
A079 6422	Plano-convex	41,6	64,0	21,5	A636 5422	Plano-convex	25,8	54,0	21,6
A104 6616	Plano-convex	66,5	66,0	14,9	A650 8034	Plano-convex FWHM (5° / 15°)	34,8	80,0	33,4
A116 7727	Plano-convex	45,1	77,0	27,2	A837 3515	Plano-convex	15,6	35,0	14,8
A132 6523	Plano-convex	38,6	65,0	22,5	A838 1605	Plano-convex	16,8	16,0	4,3
A163 6827	Plano-convex	40,0	68,0	26,0	A850 6315	Plano-convex frosted	67,0	62,8	14,5
A175 6419	Plano-convex	40,0	64,0	21,4	A904 4512	Plano-convex frosted	35,3	45,0	12,0
A180 6016	Plano-convex	67,0	60,0	15,2	A912 5225	Plano-convex frosted	18,6	51,9	25,2

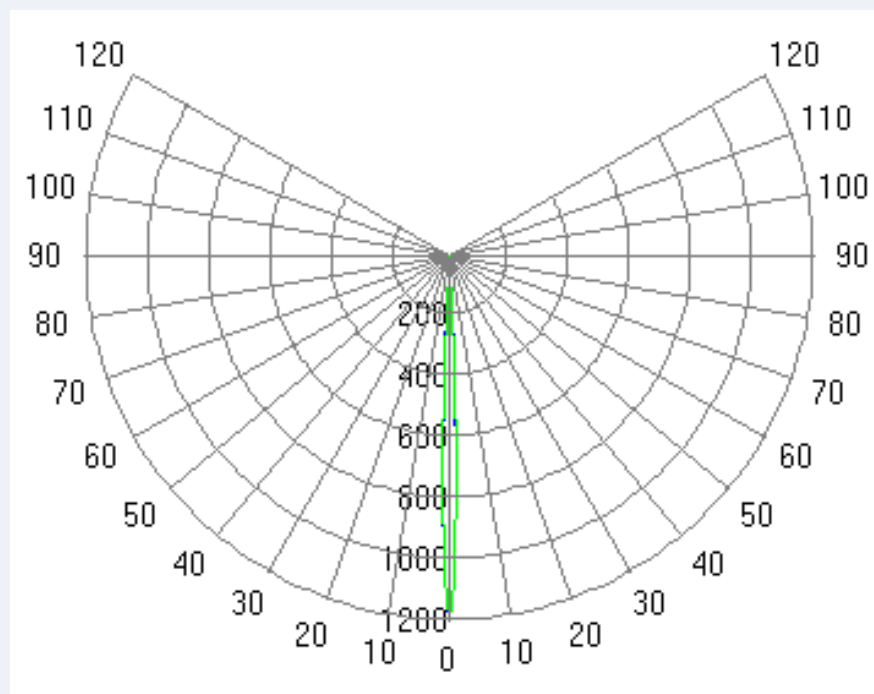


A003 7124

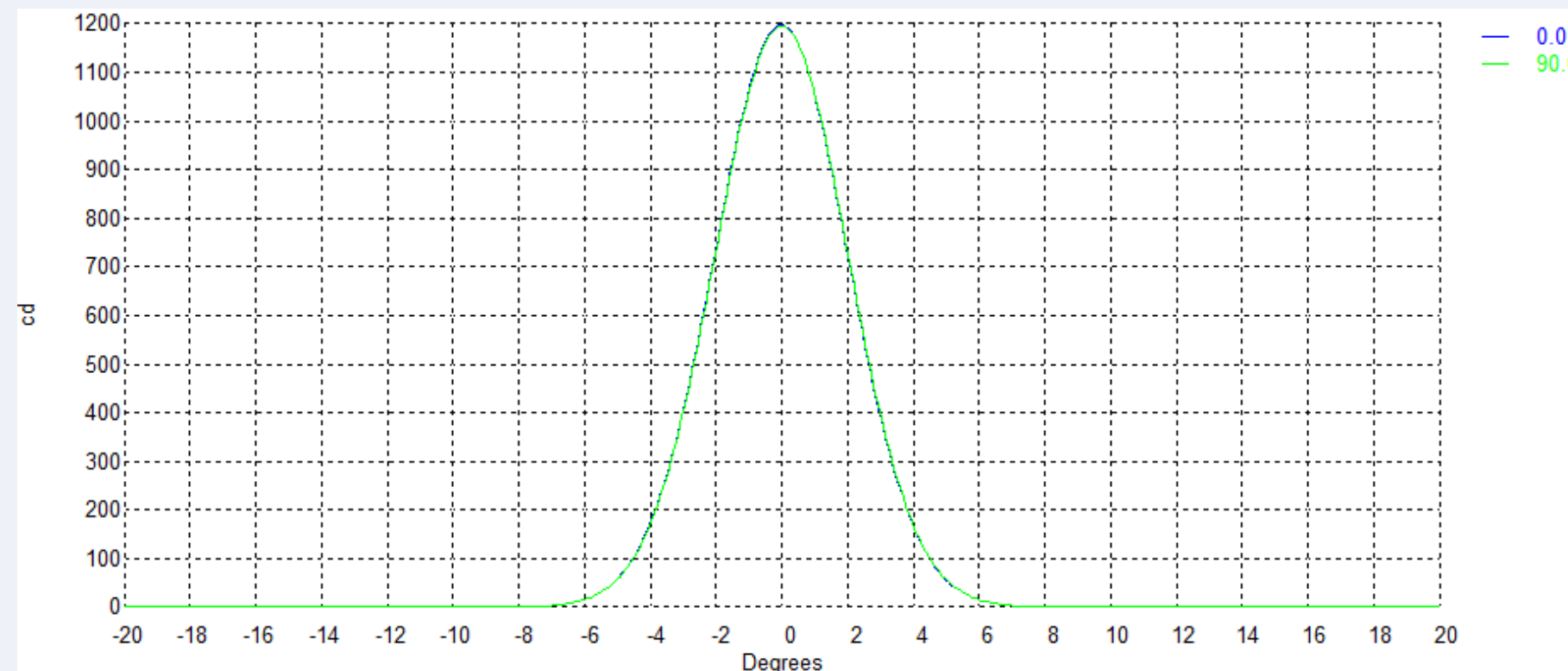


A003 7124 – simulation results

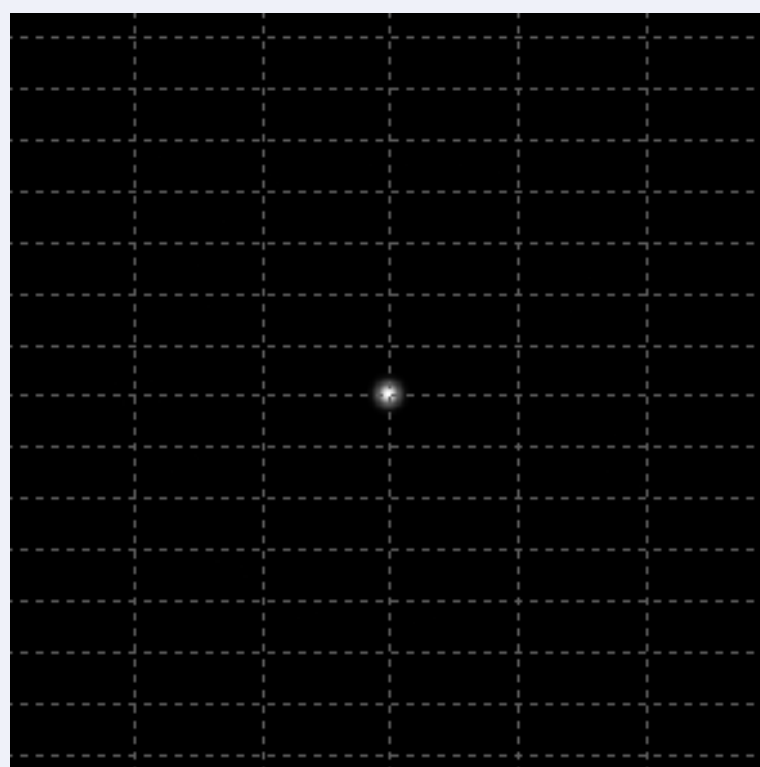
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



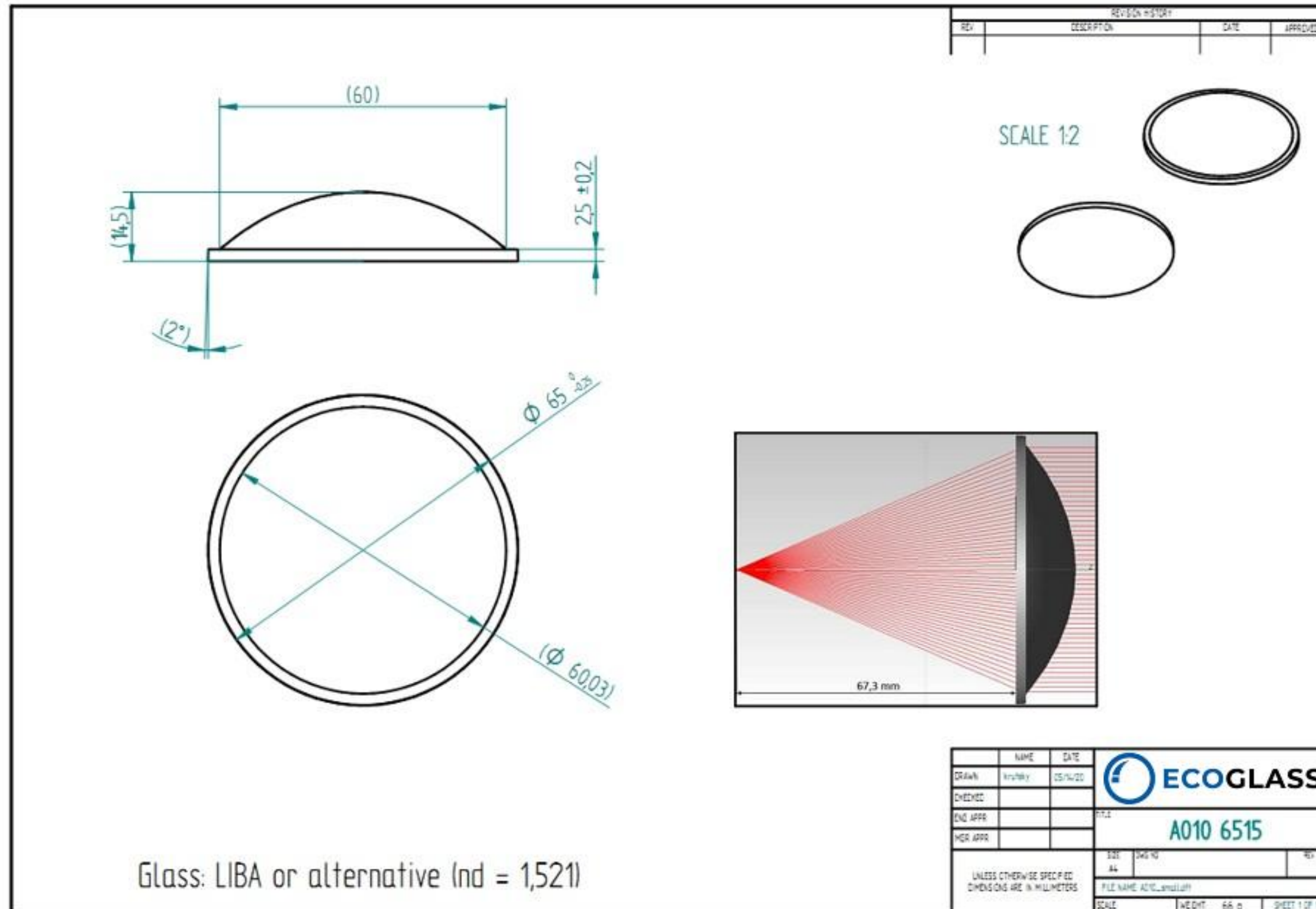
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
FWHM Co [°]	5
FWHM C90 [°]	5

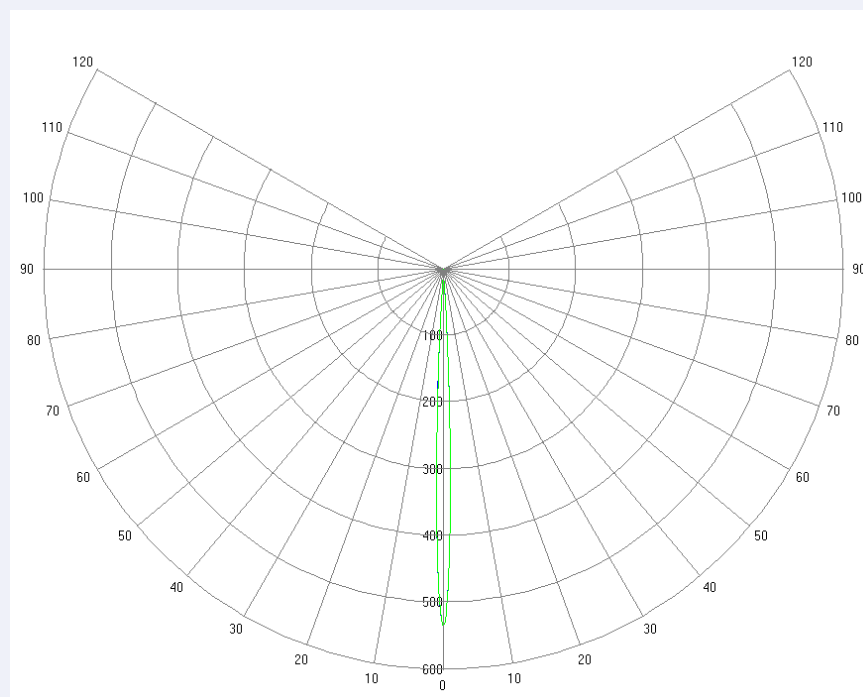
* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A010 6515

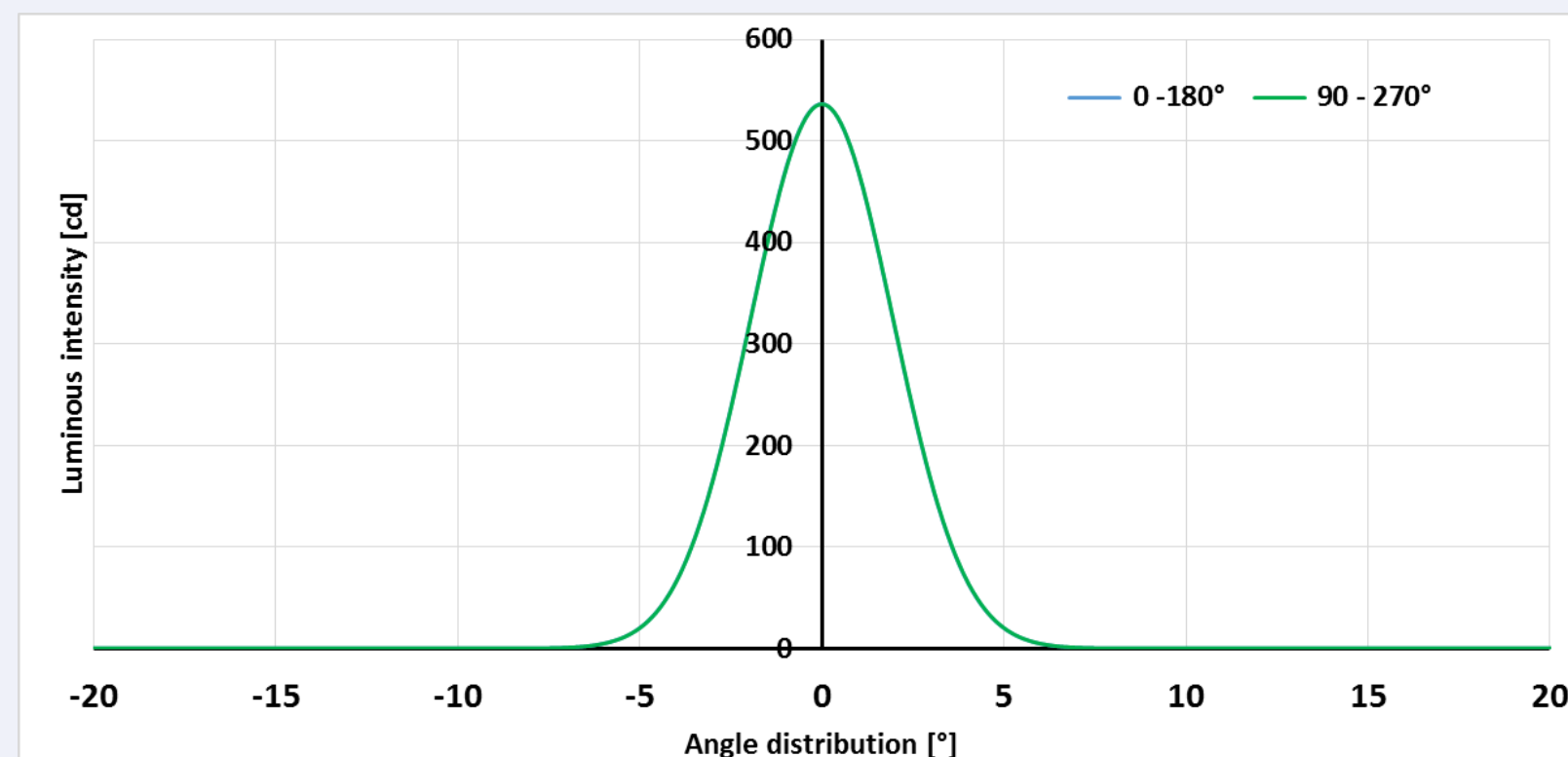


A010 6515 – simulation results

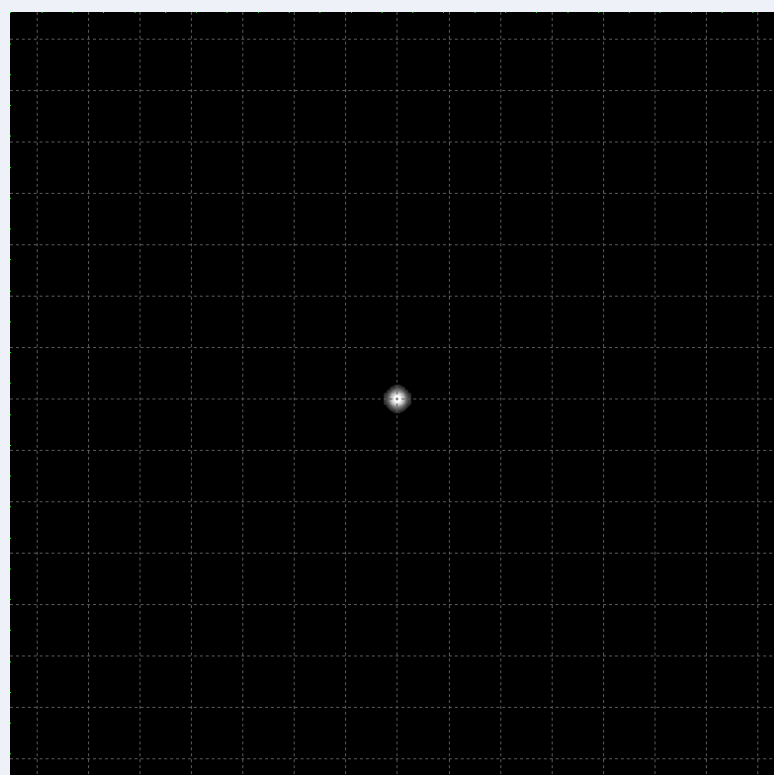
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



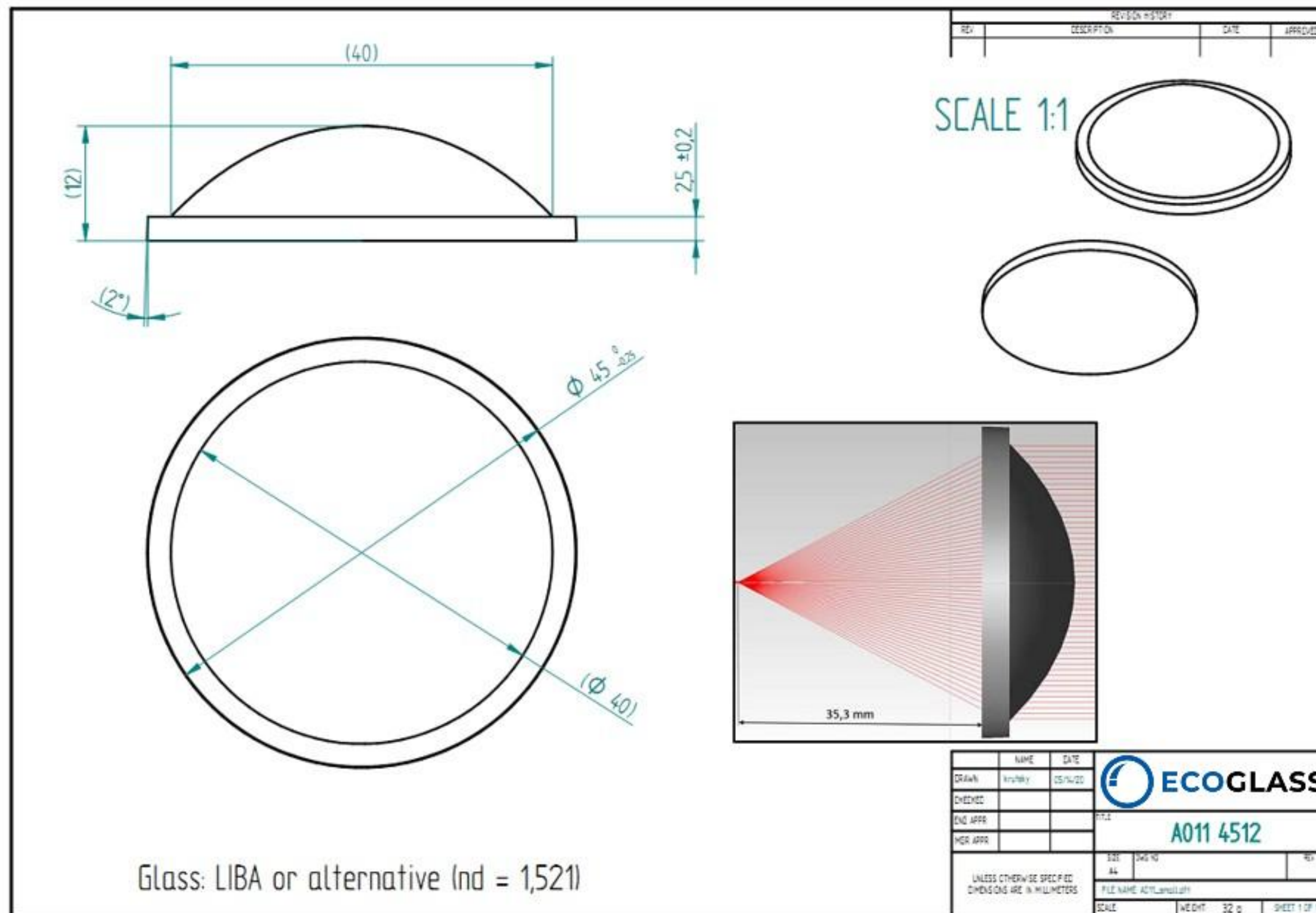
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
FWHM Co [°]	6
FWHM C90 [°]	6

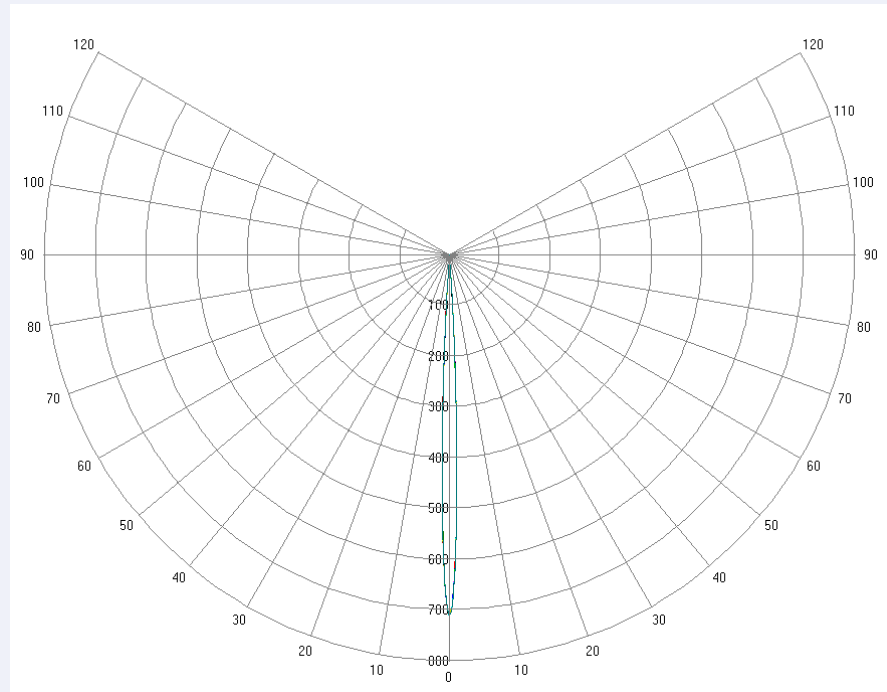
* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A011 4512

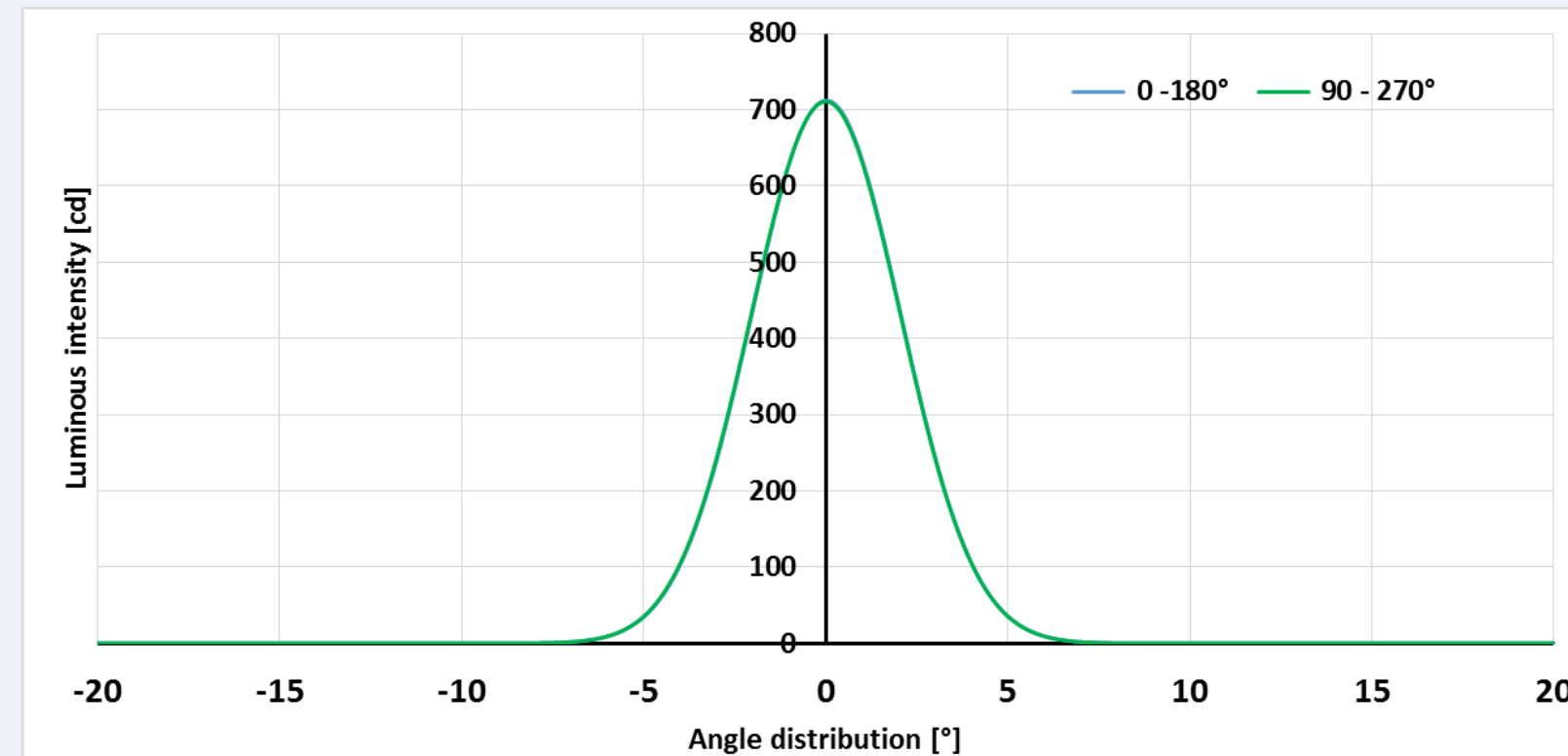


A011 4512 – simulation results

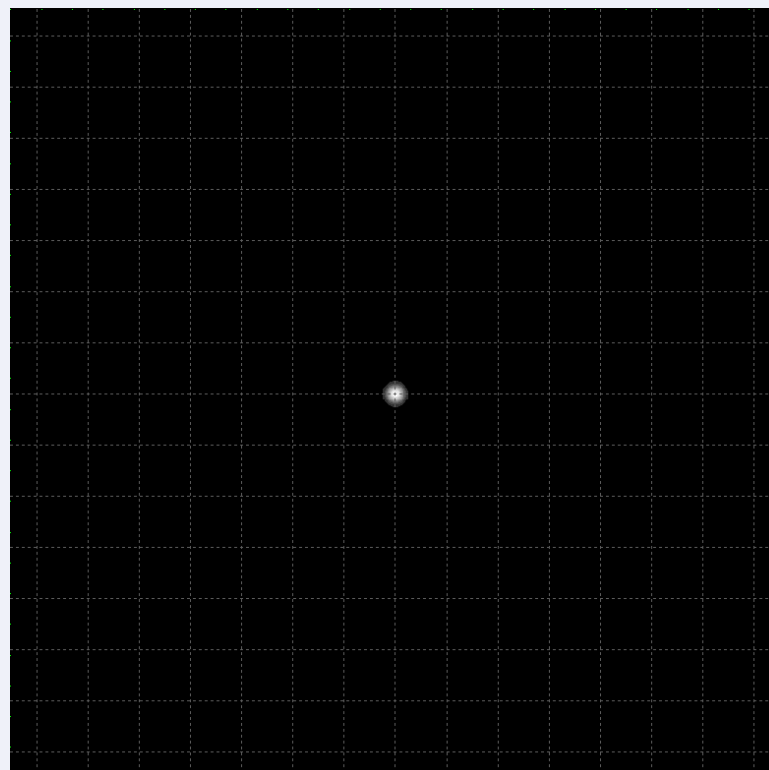
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



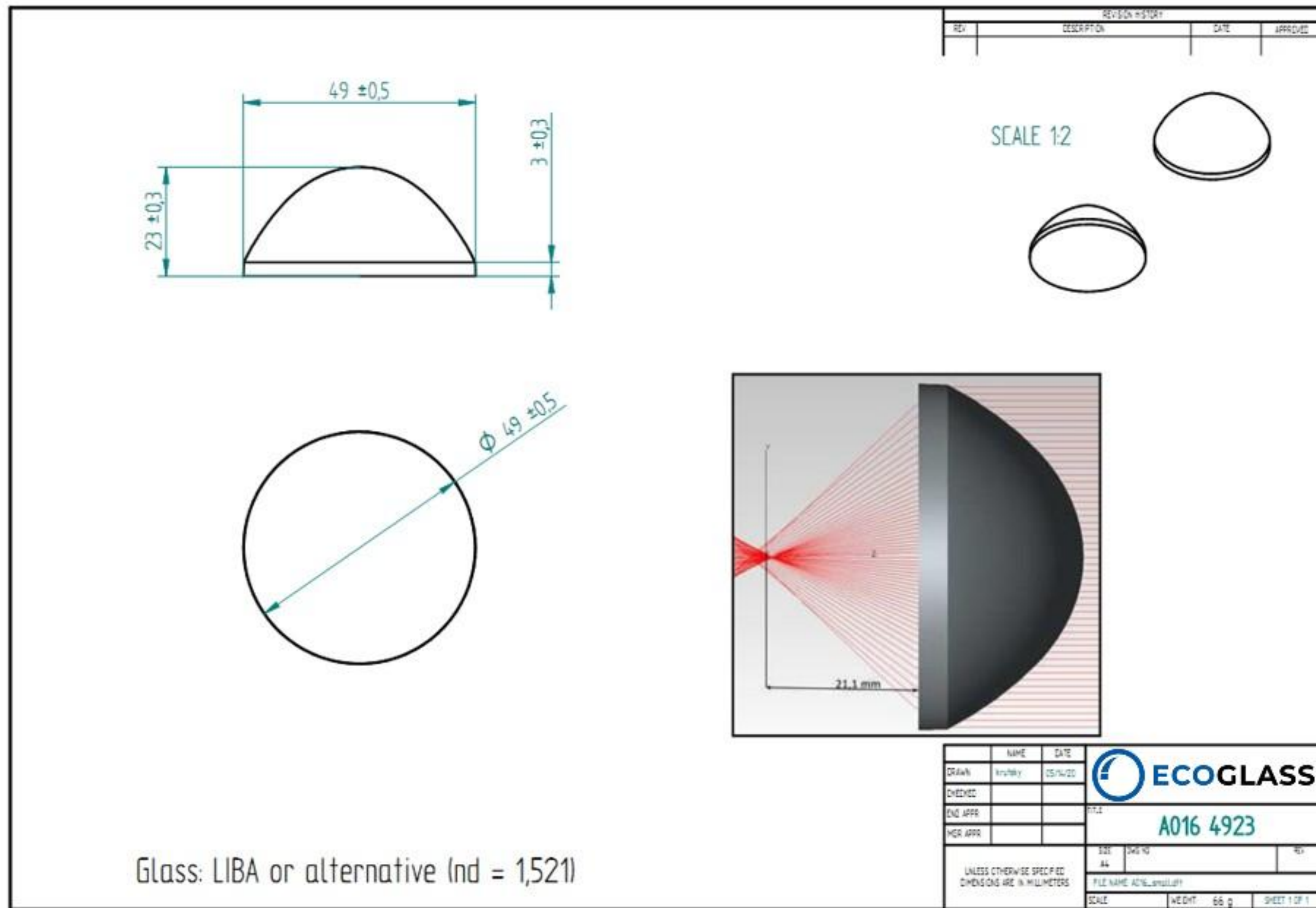
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
FWHM Co [°]	6
FWHM C90 [°]	6

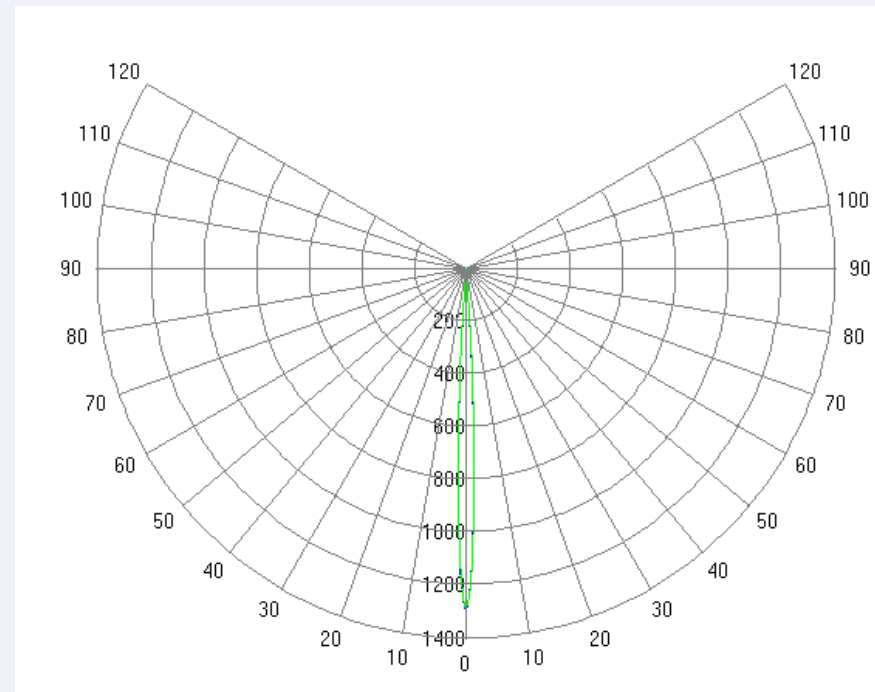
* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A016 4923

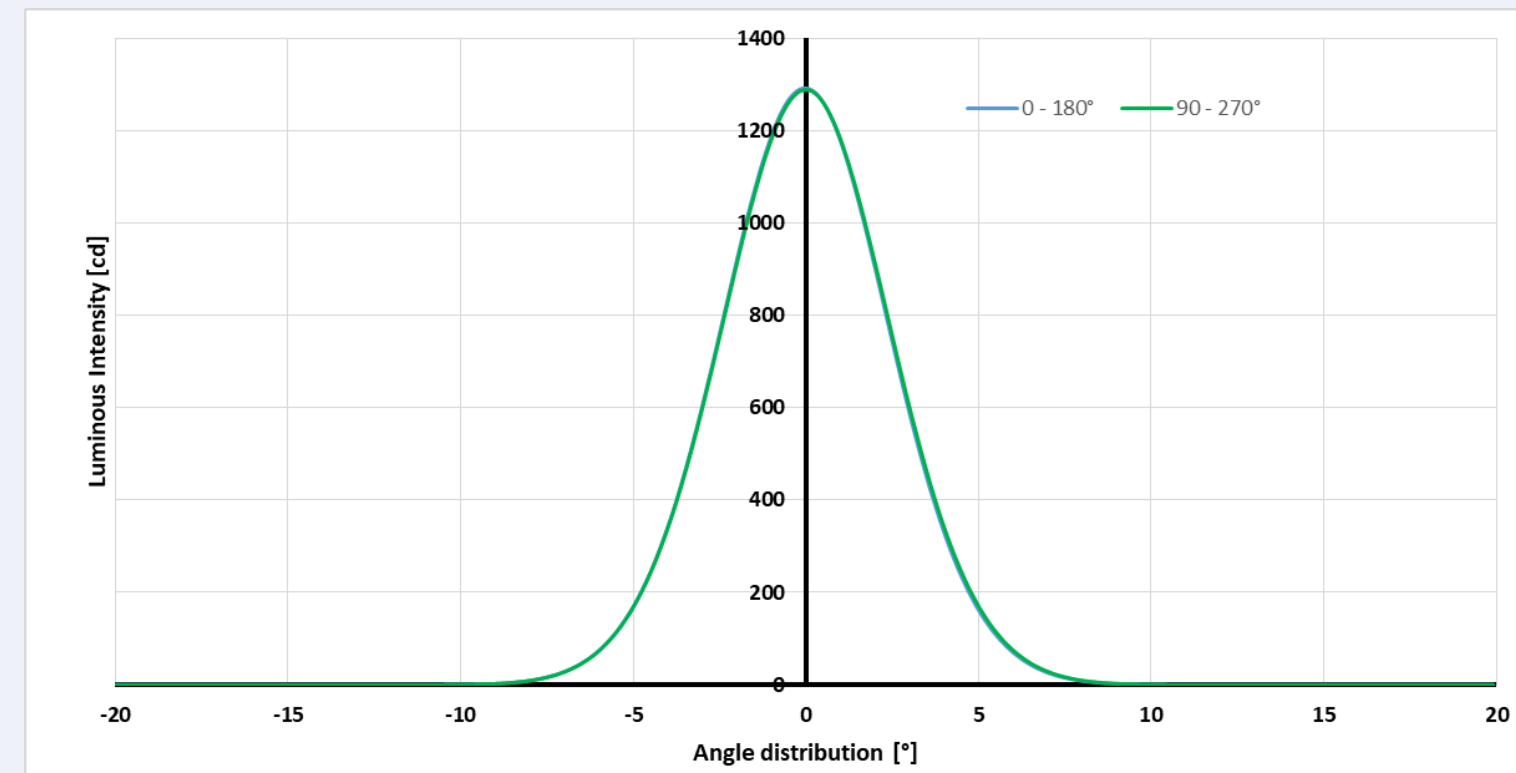


A016 4923 – simulation results

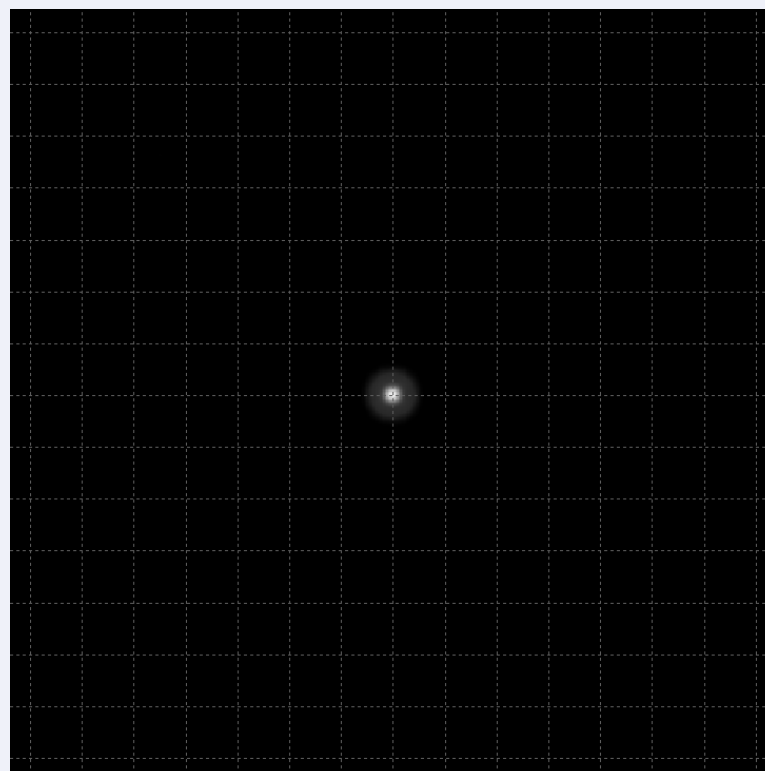
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



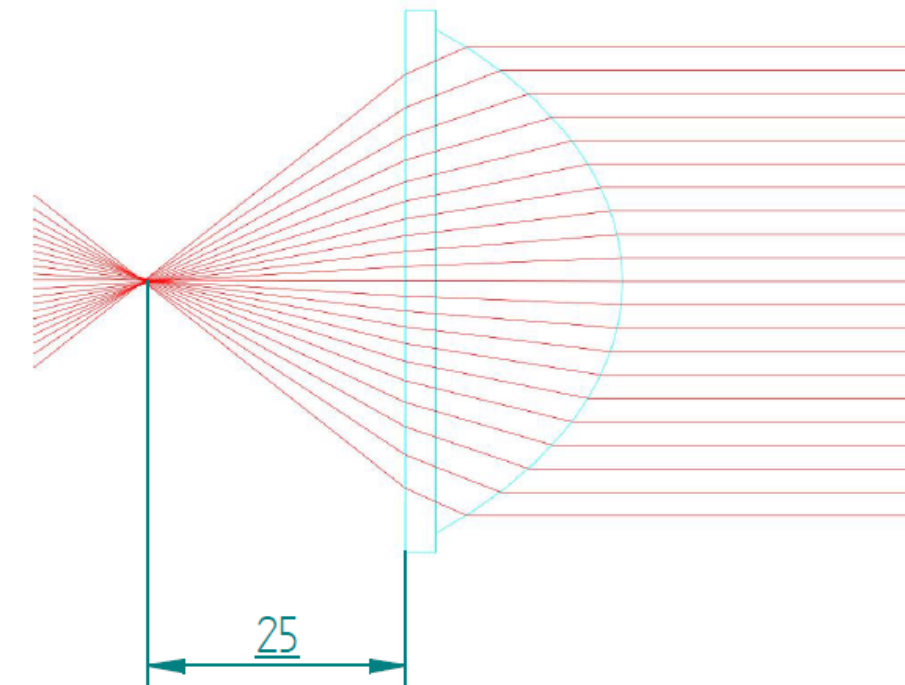
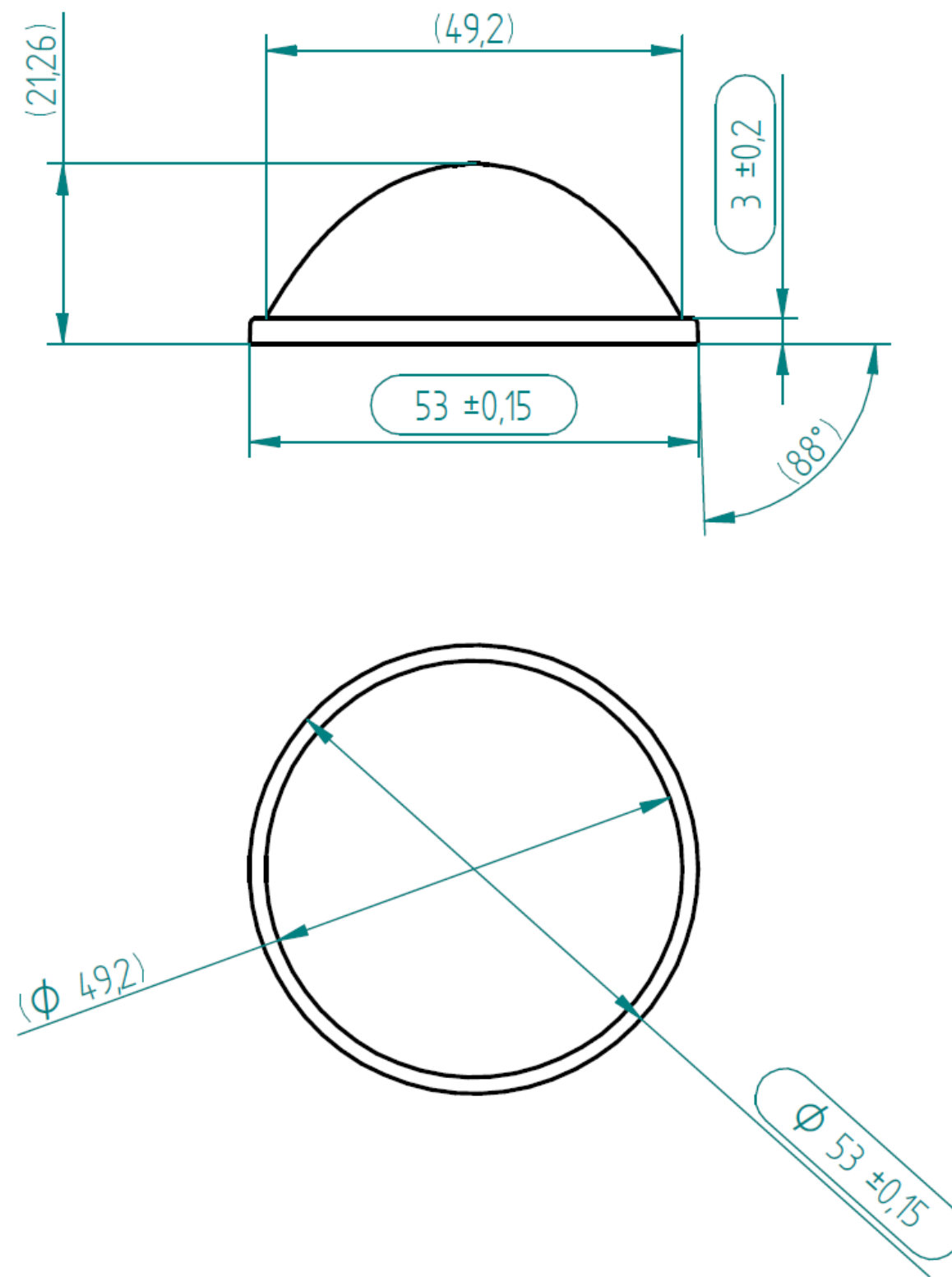
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
FWHM Co [°]	5,6
FWHM C90 [°]	5,6

* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A019 5322



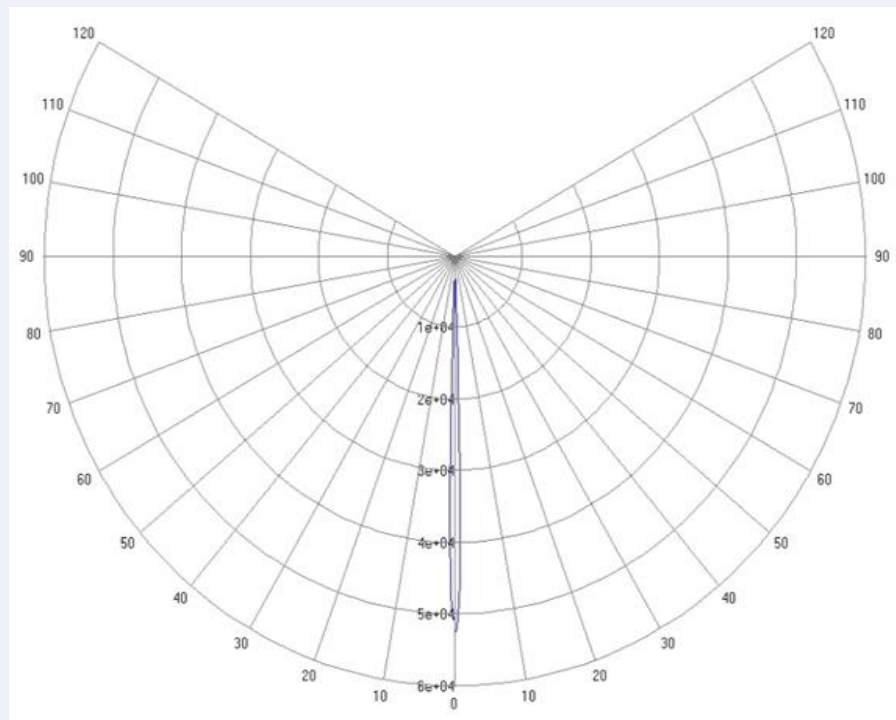
material : GLASS $nd=1,520$

REV	DESCRIPTION	DATE	APPROVED

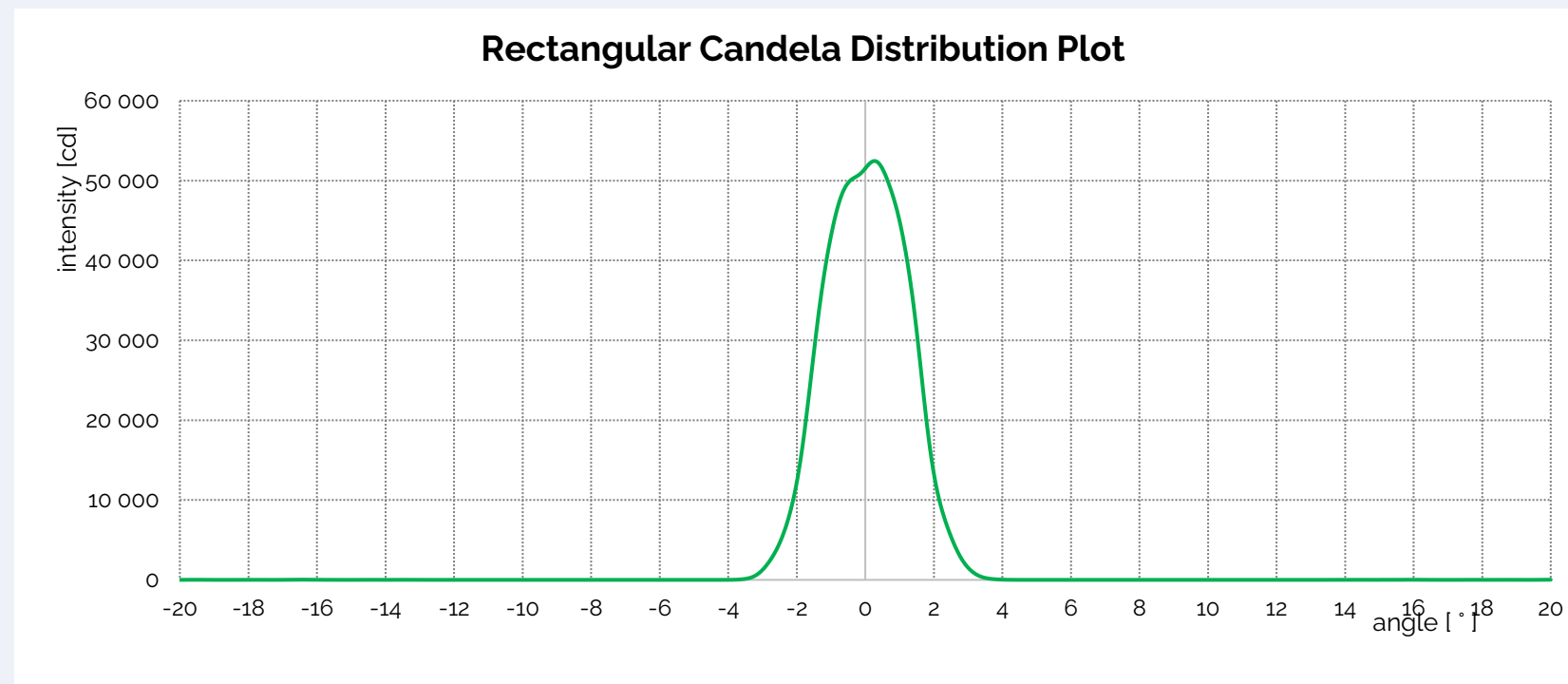
NAME	DATE	
DRAWN jkocarek	06/12/25	
CHECKED		
ENG APPR		
MGR APPR		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS		TITLE A019 5322
SIZE A4	DWG NO. Aspheric Lens	REV
FILE NAME: A0195322 z vykresudft		
SCALE:	WEIGHT:	SHEET 1 OF 1

A019 5322 – simulation results

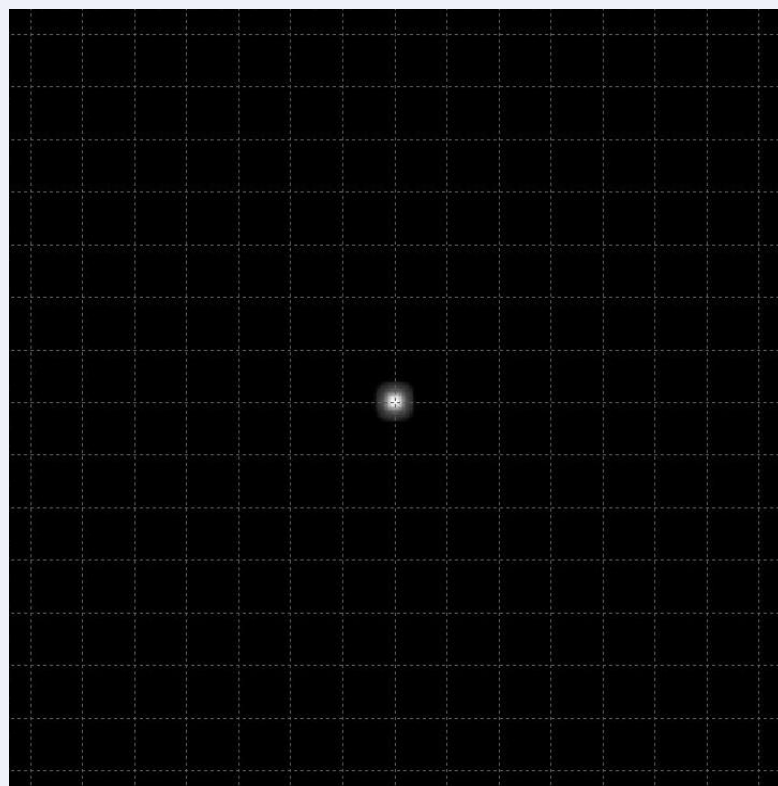
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot

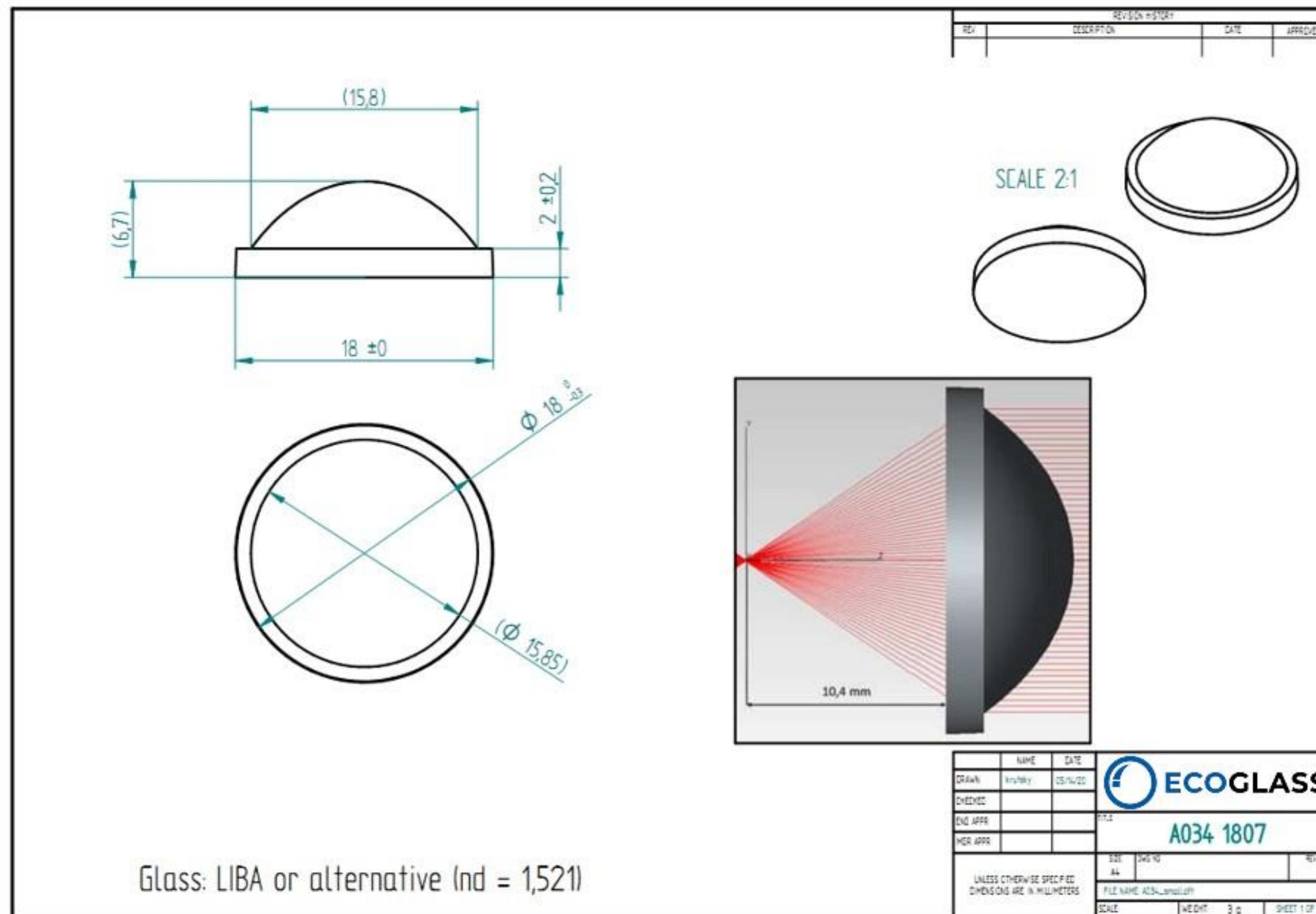


- Projection wall 3x3 m at 1m



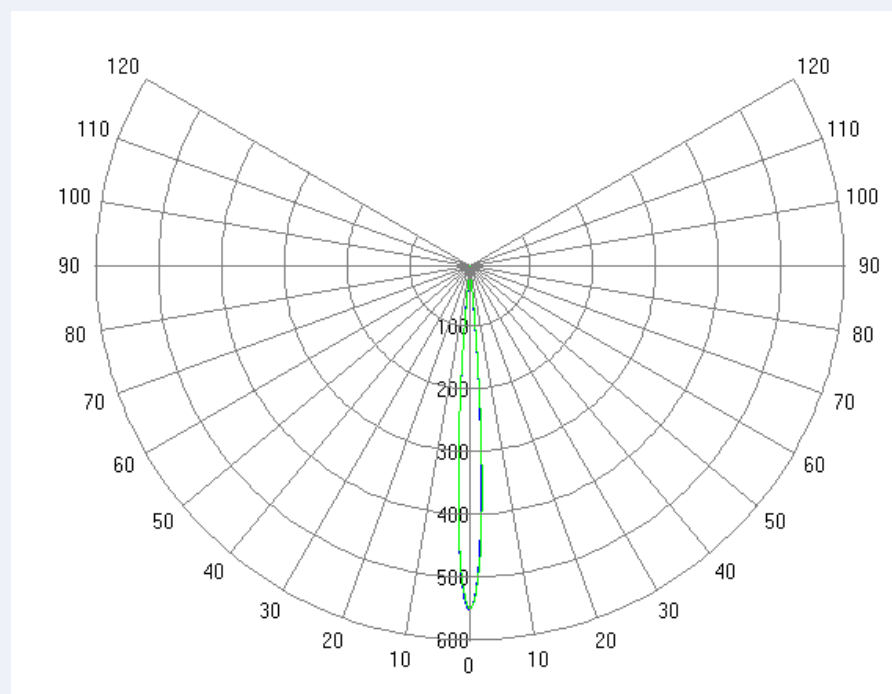
LED used for simulation	Cree XP-G4
Luminous flux of LED [lm]	350
FWHM Co [°]	3
FWHM C180 [°]	3

A034 1807

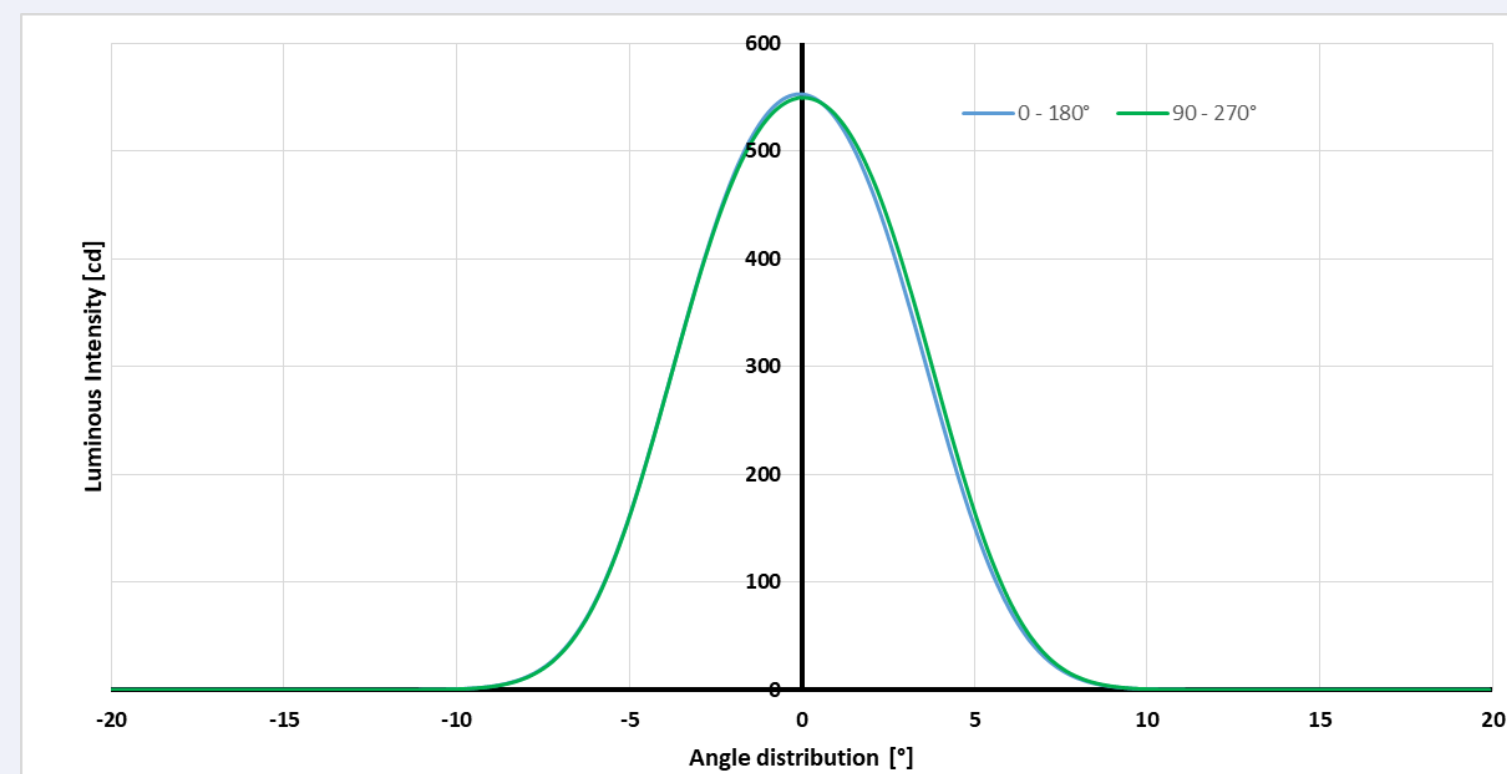


A034 1807 – simulation results

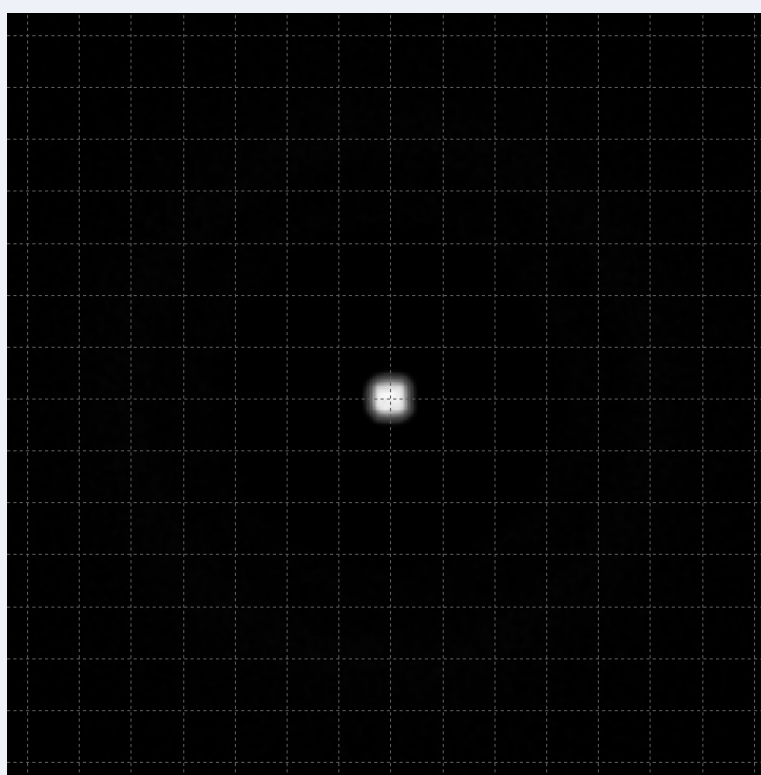
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



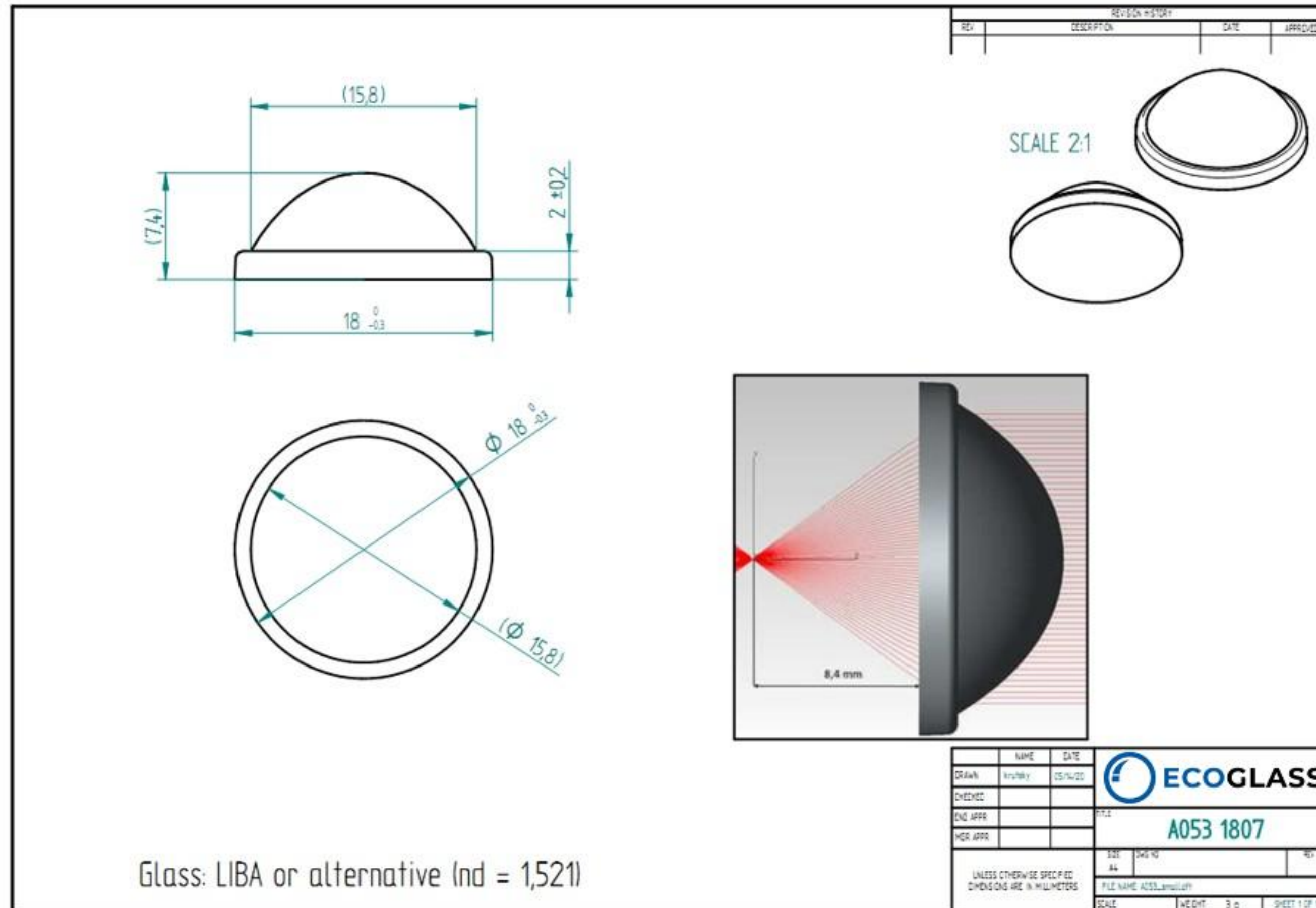
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
FWHM Co [°]	8
FWHM C90 [°]	8

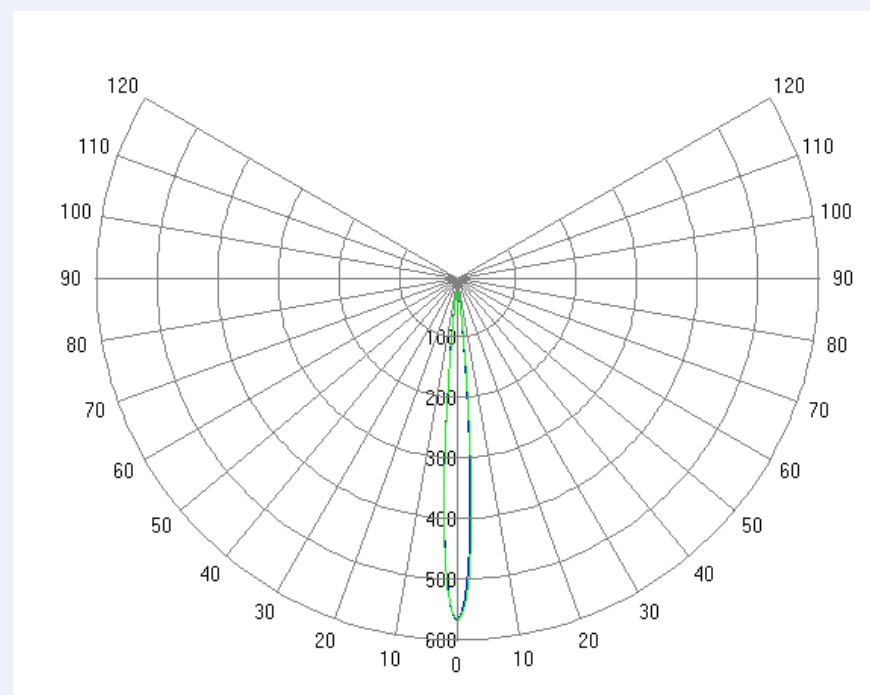
* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A053 1807

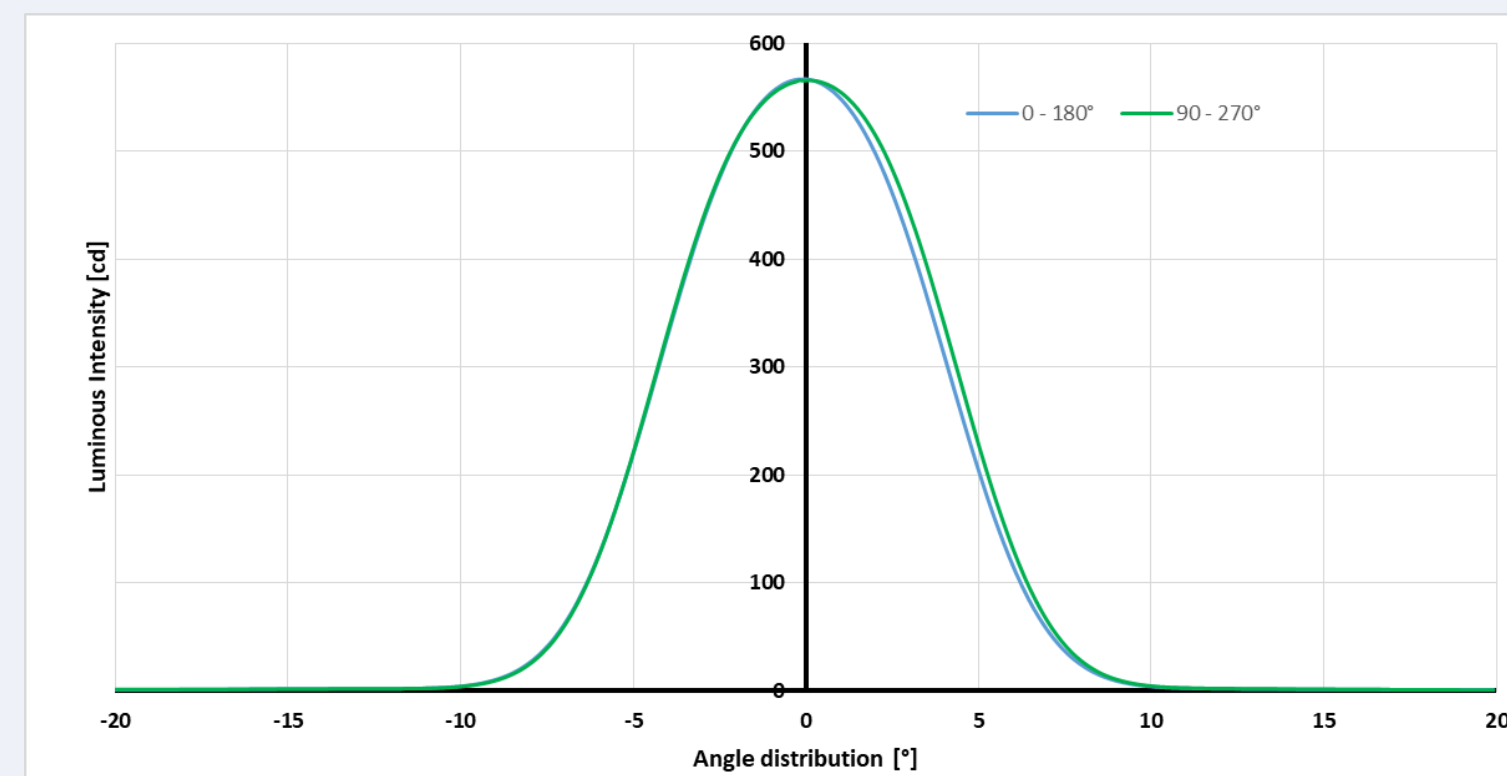


A053 1807 – simulation results

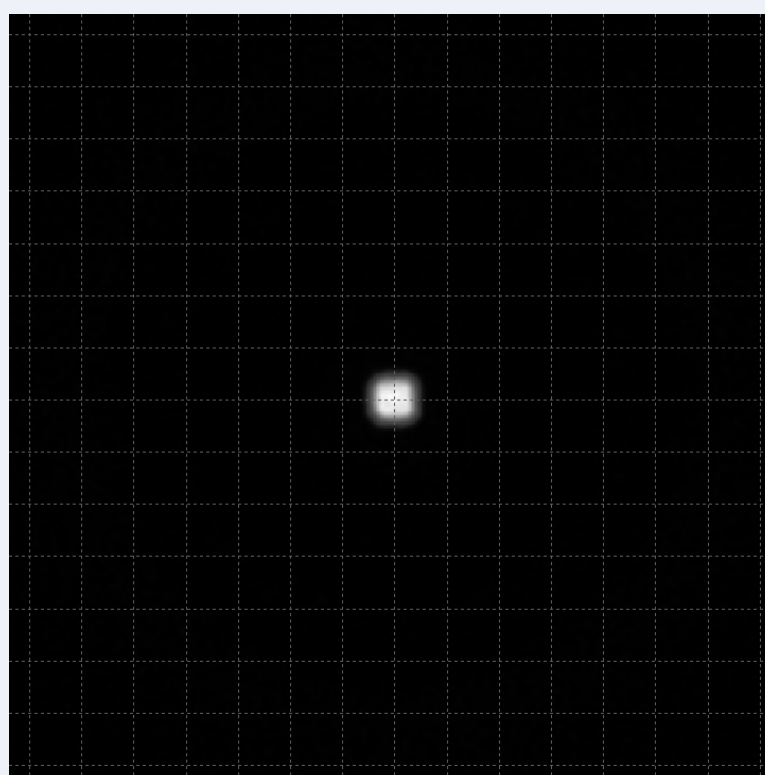
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



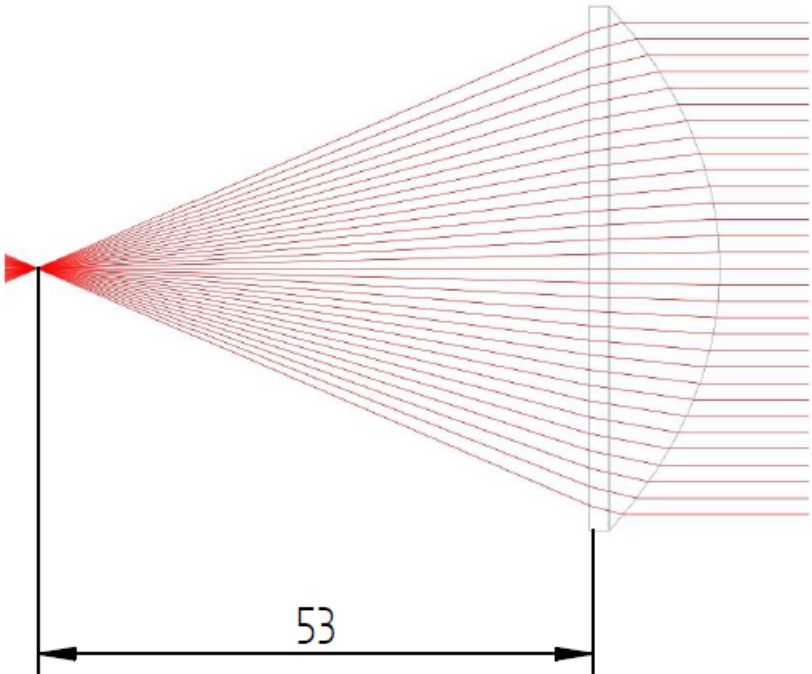
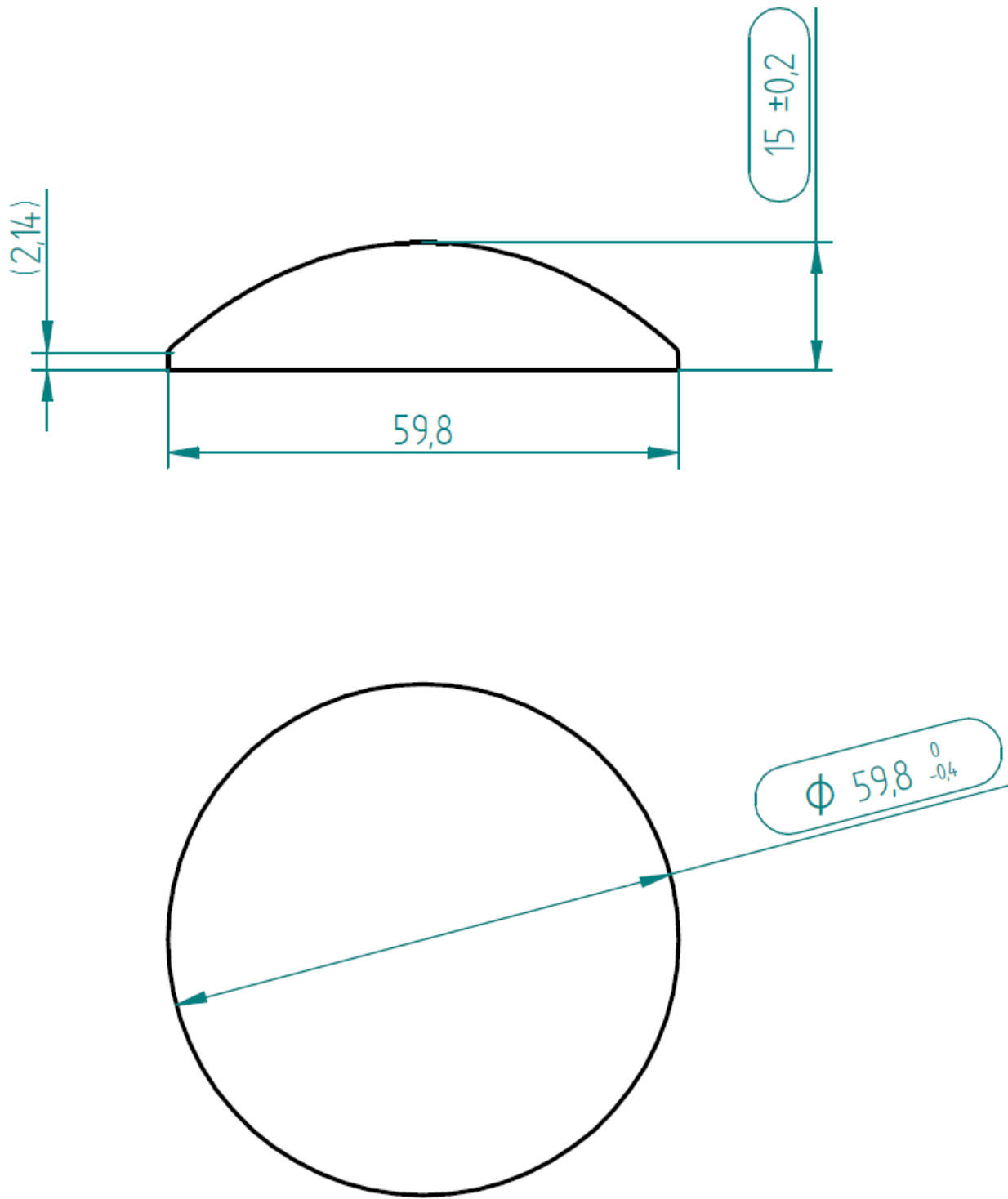
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
FWHM Co [°]	9
FWHM C90 [°]	9

* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A068 6015

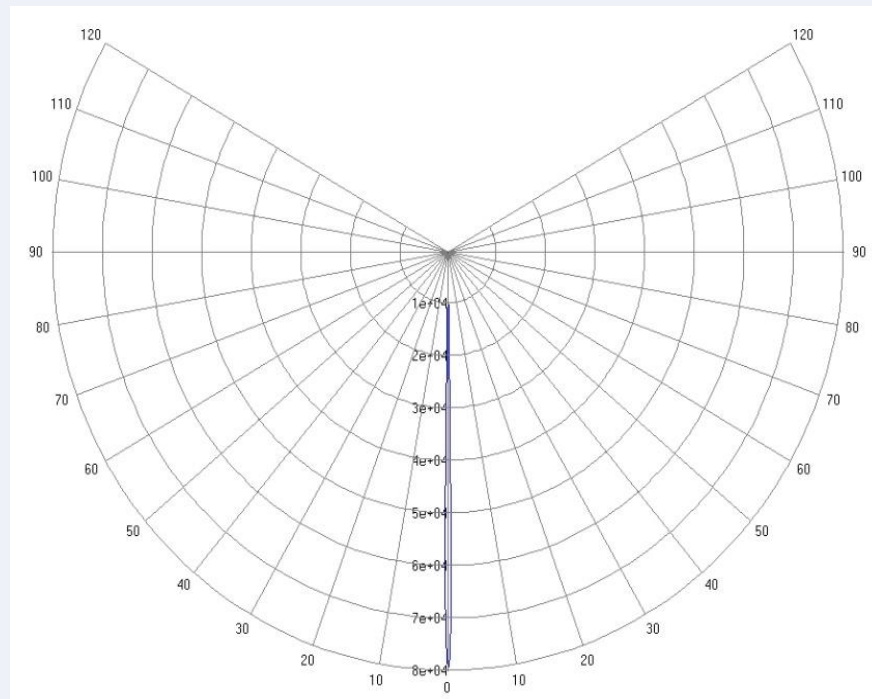


material : glass nd=1,520

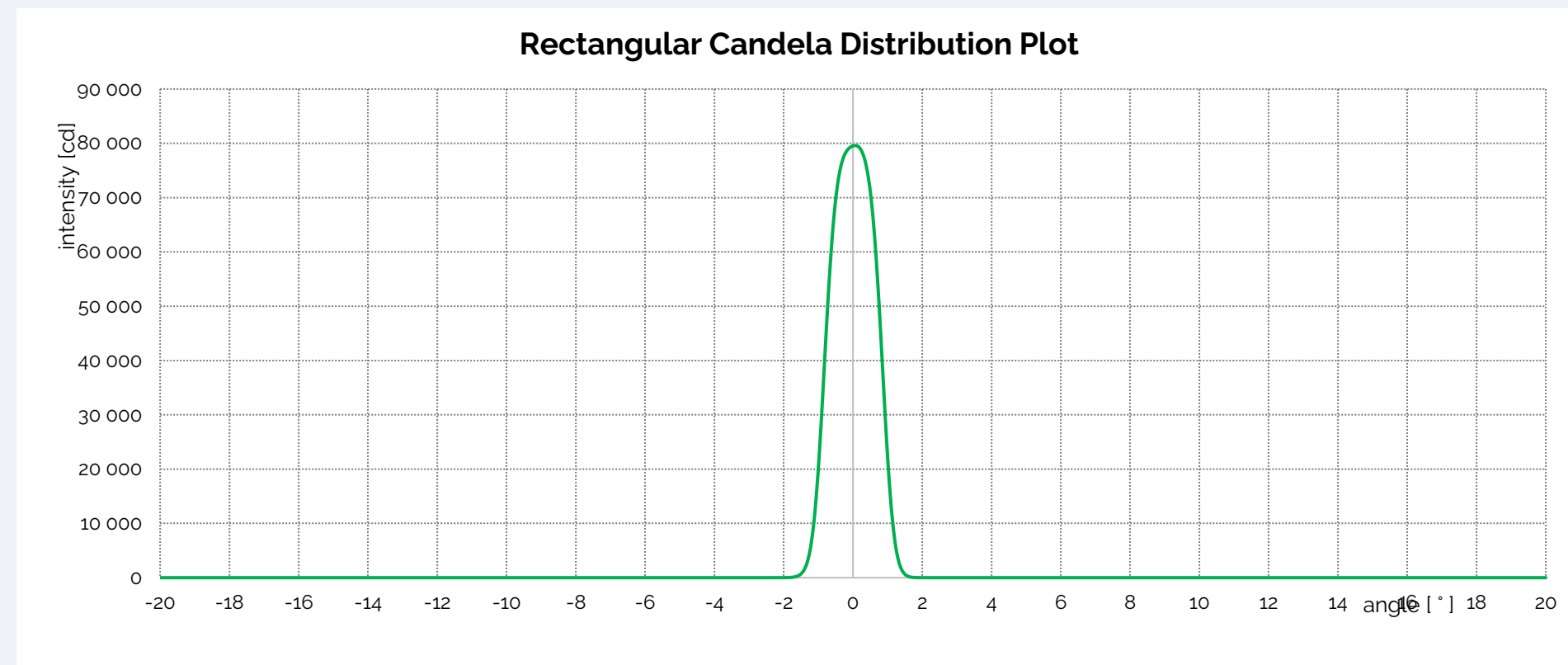
	NAME	DATE		
DRAWN	jkocarek	06/09/25		
CHECKED			TITLE	
ENG APPR				
MGR APPR			aspheric lens 60BF53	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS			SIZE	DWG NO
			A4	A068 6015
			FILE NAME: A068 6015.dft	REV
			SCALE:	WEIGHT:
			SHEET 1 OF 1	

A068 6015 – simulation results

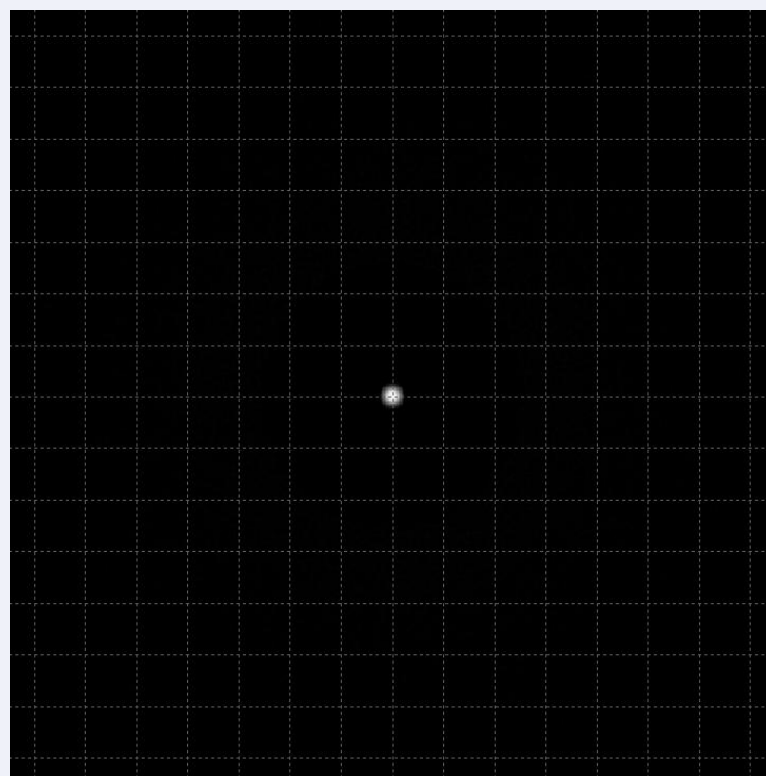
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot

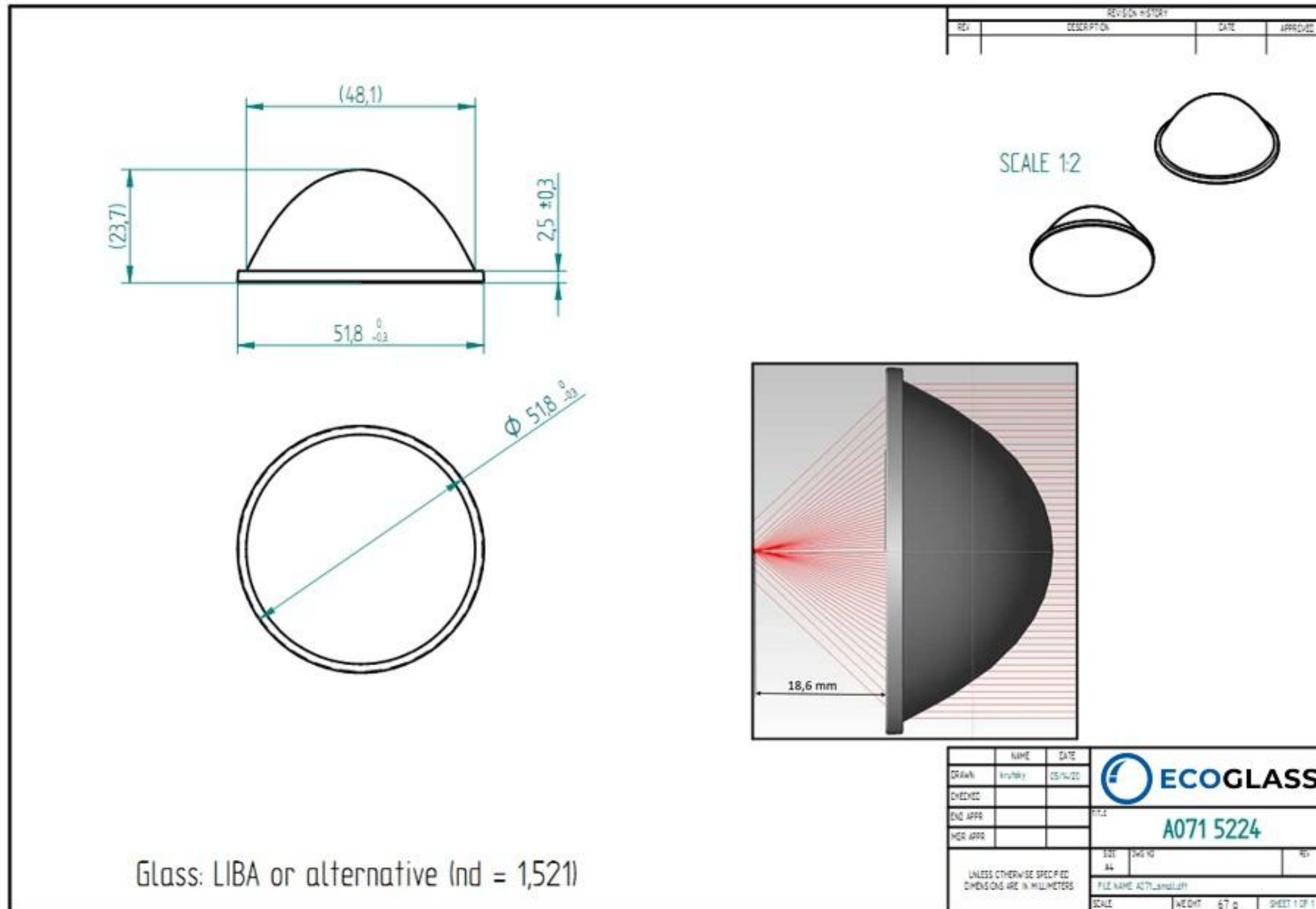


- Projection wall 3x3 m at Distance 1m



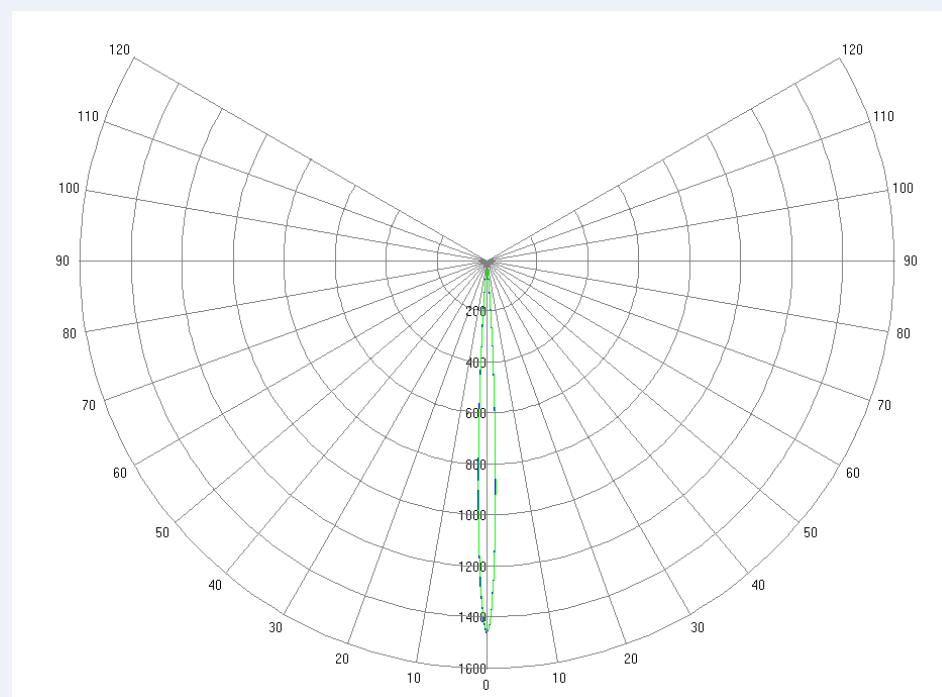
LED used for simulation	Cree XP-G4
Luminous flux of LED [lm]	350
FWHM Co [°]	2
FWHM C180 [°]	2

A071 5224

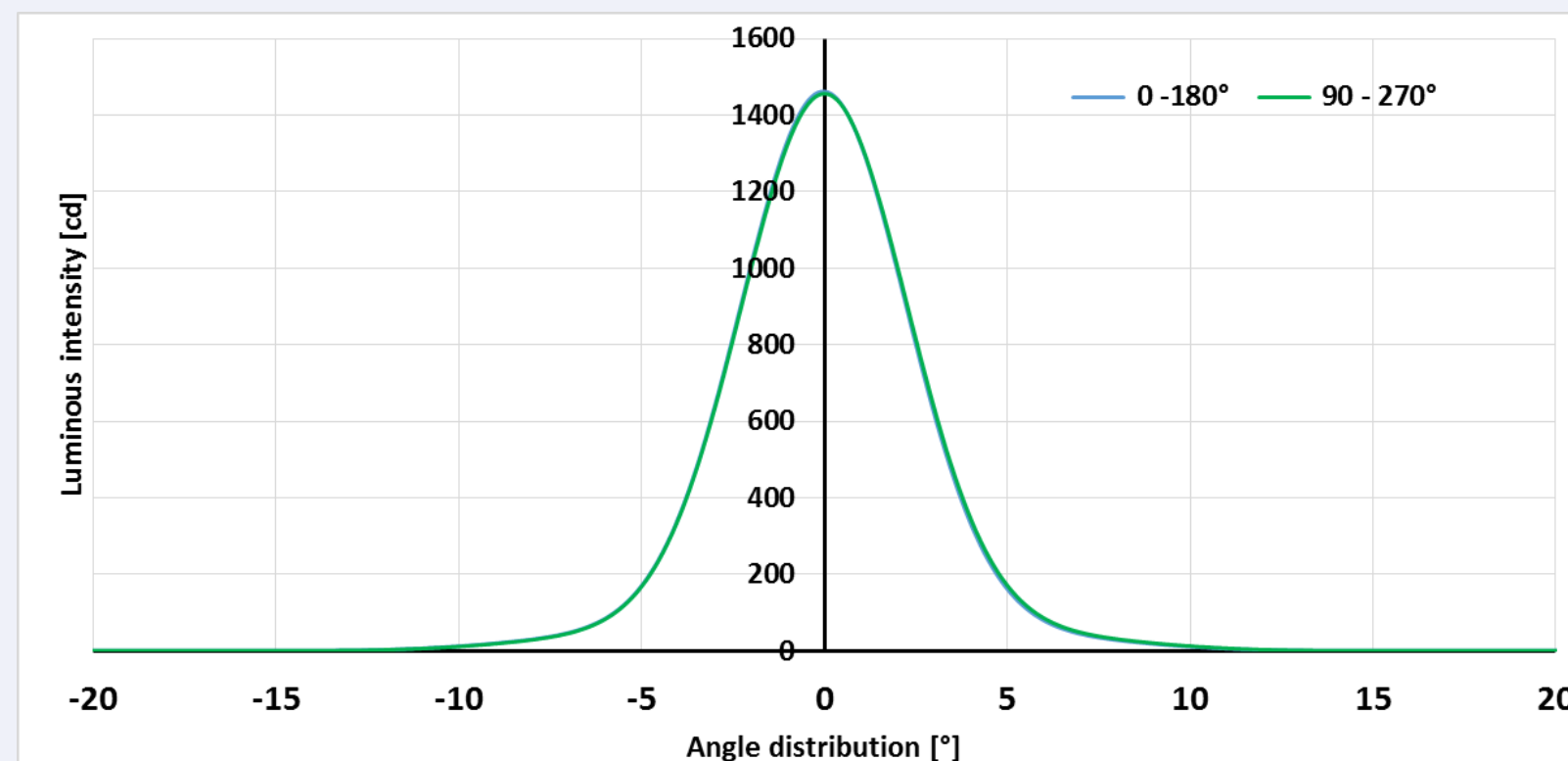


A071 5224 – simulation results

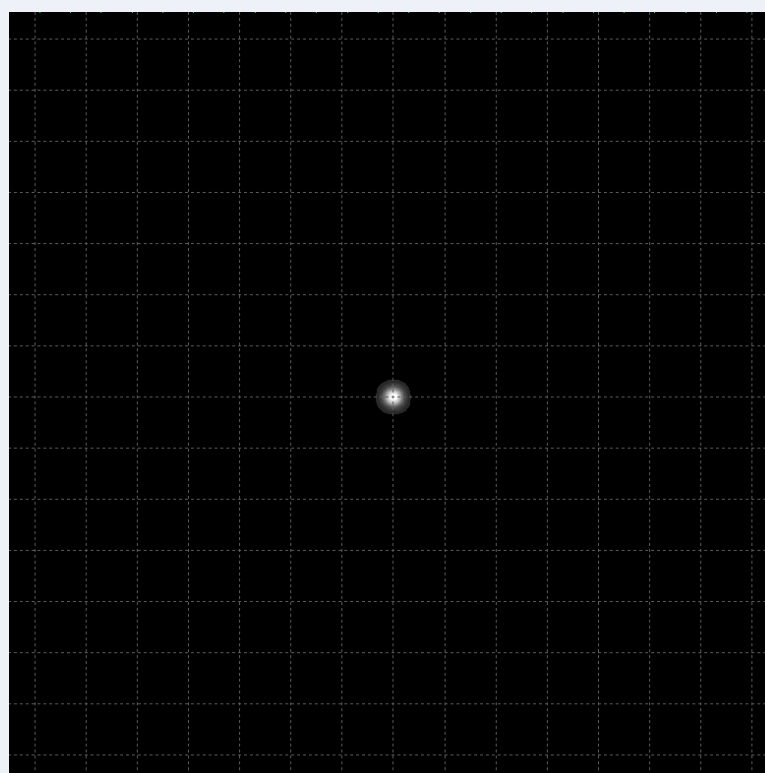
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



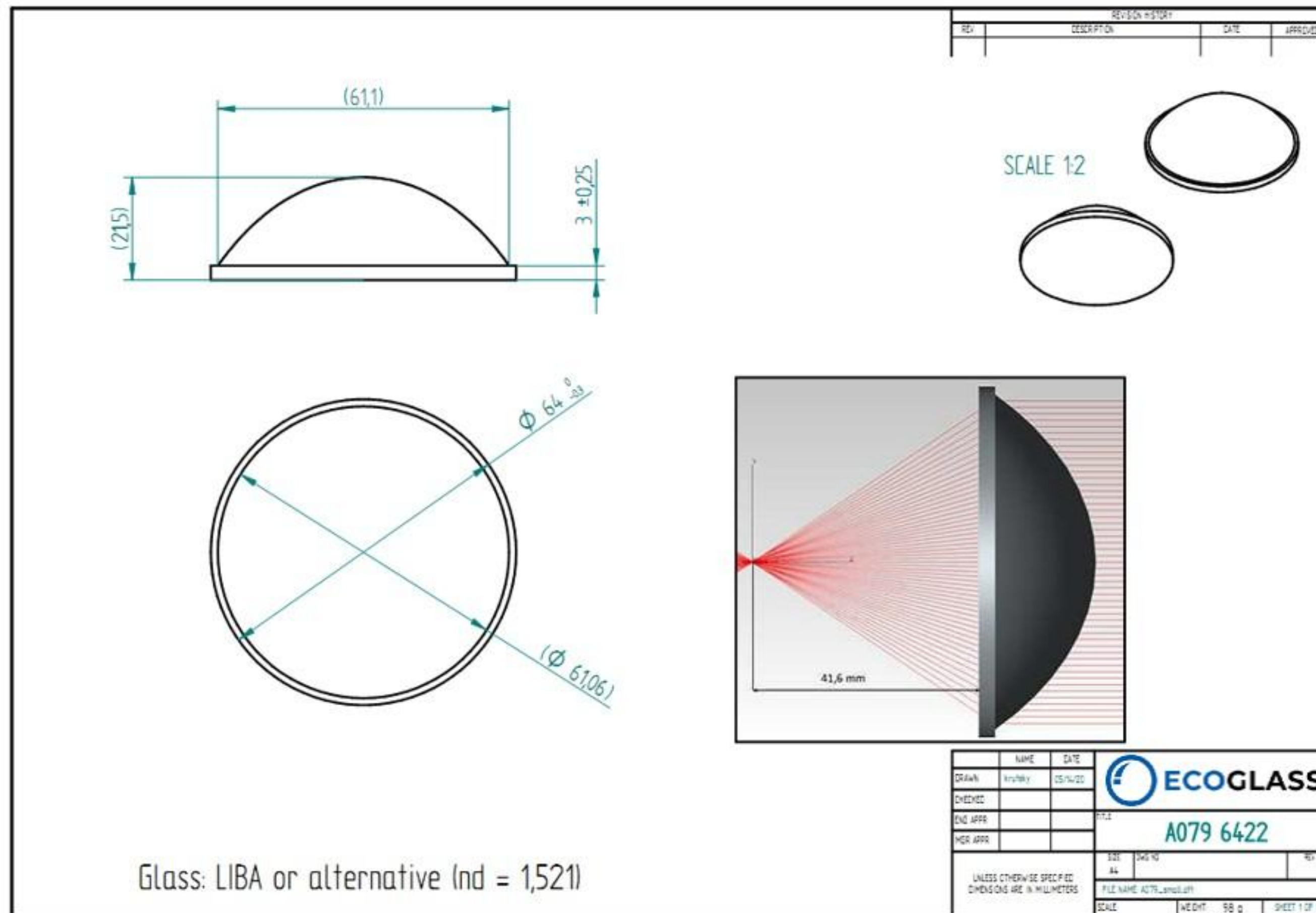
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
FWHM Co [°]	6
FWHM C90 [°]	6

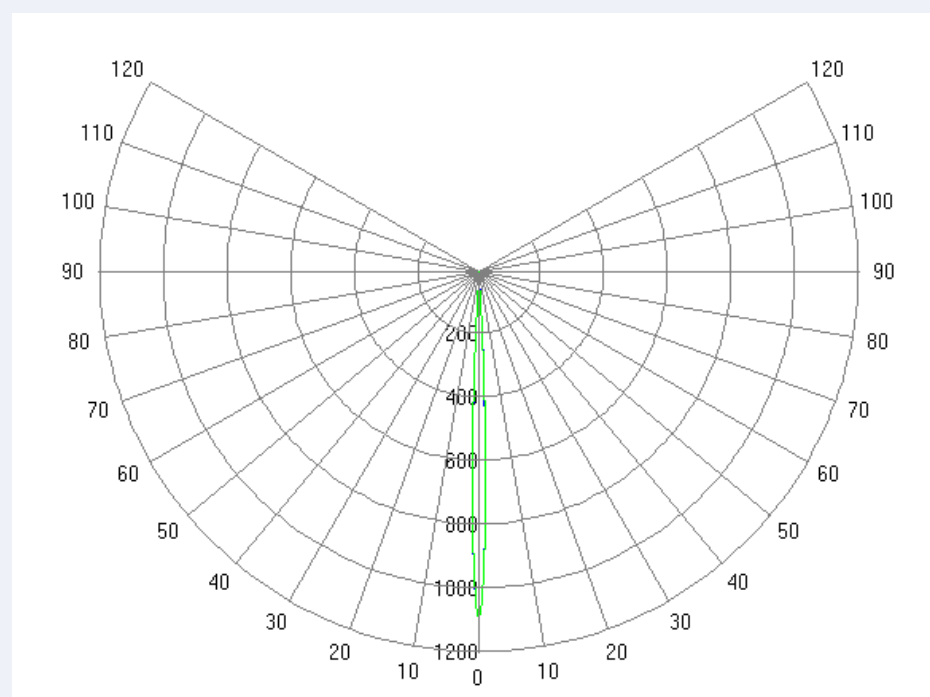
* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A079 6422

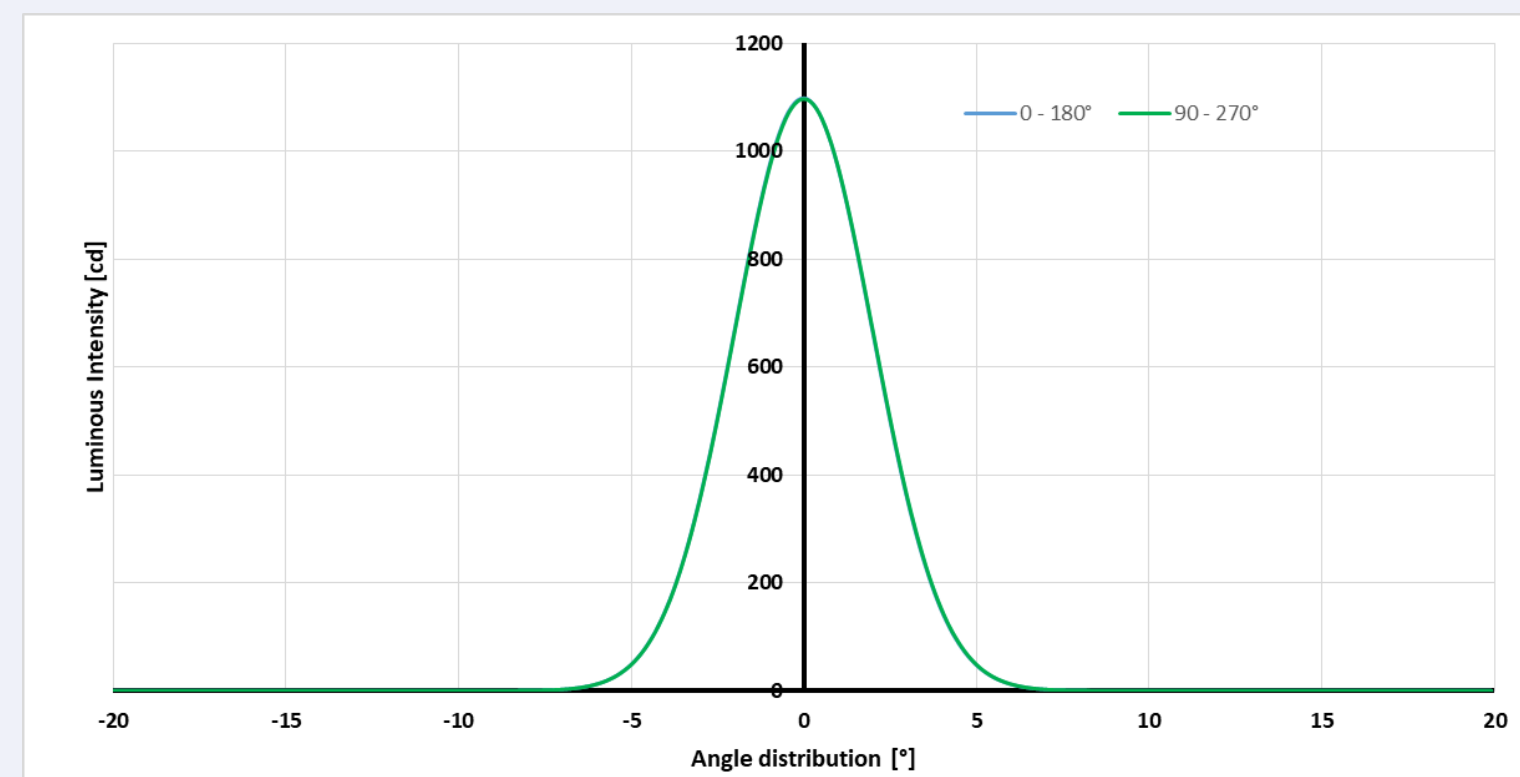


A079 6422 – simulation results

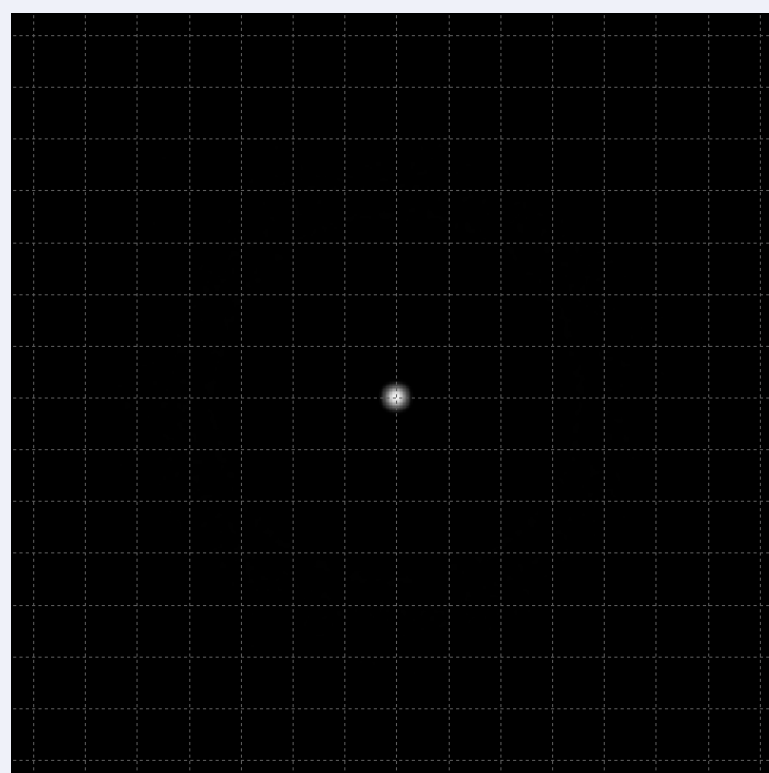
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



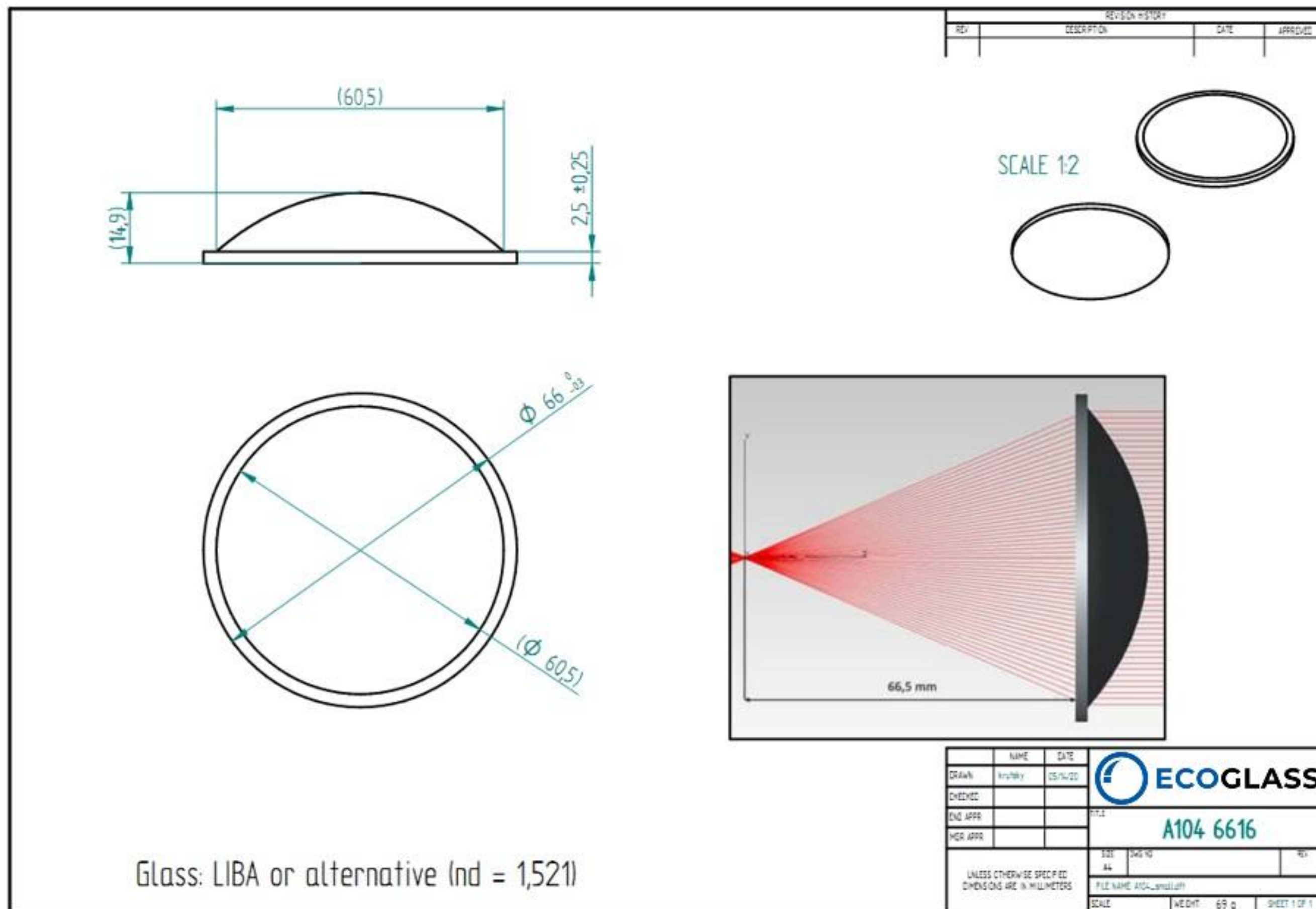
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
FWHM Co [°]	5
FWHM C90 [°]	5

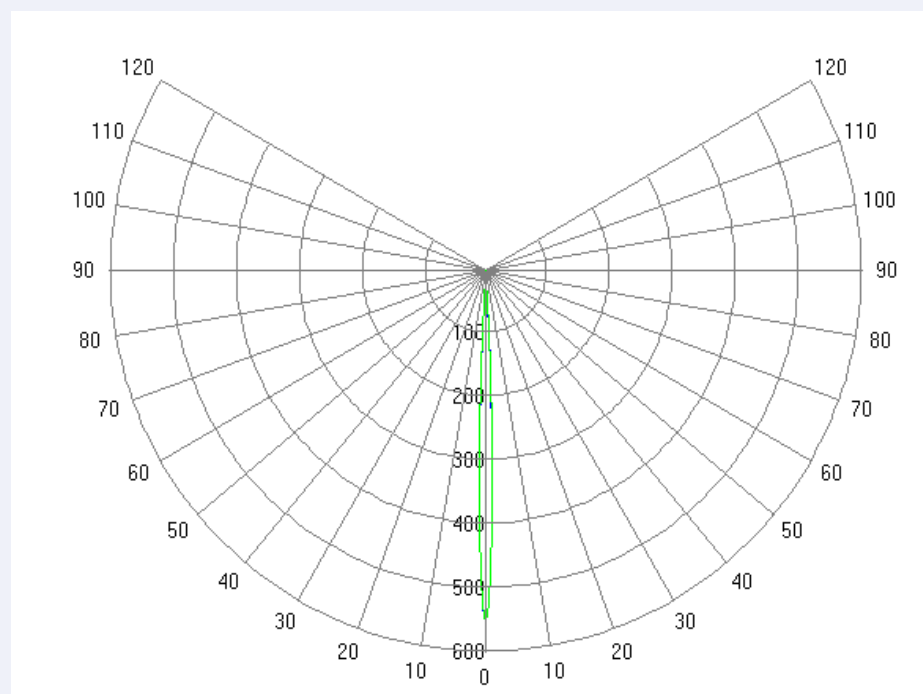
* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A104 6616

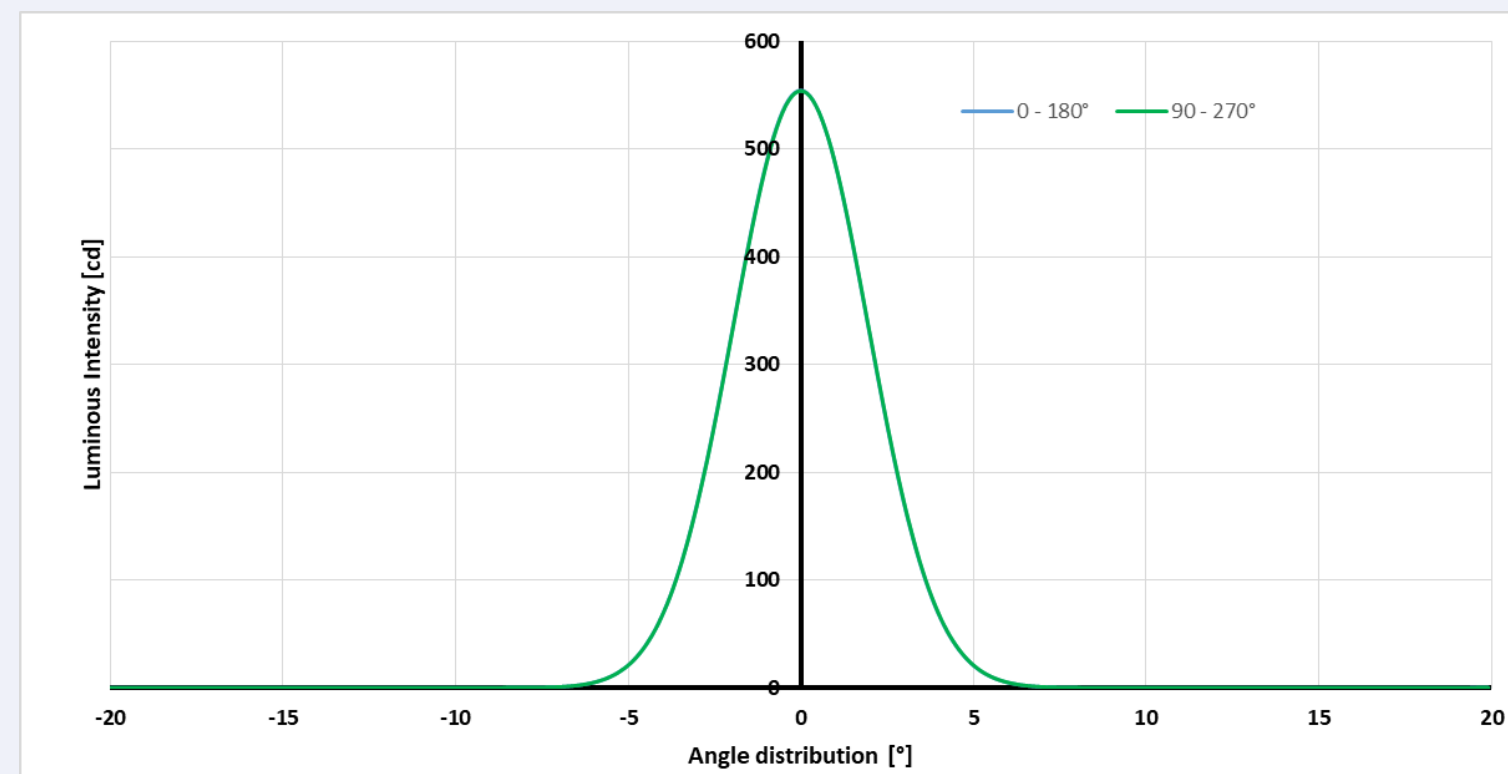


A104 6616 – simulation results

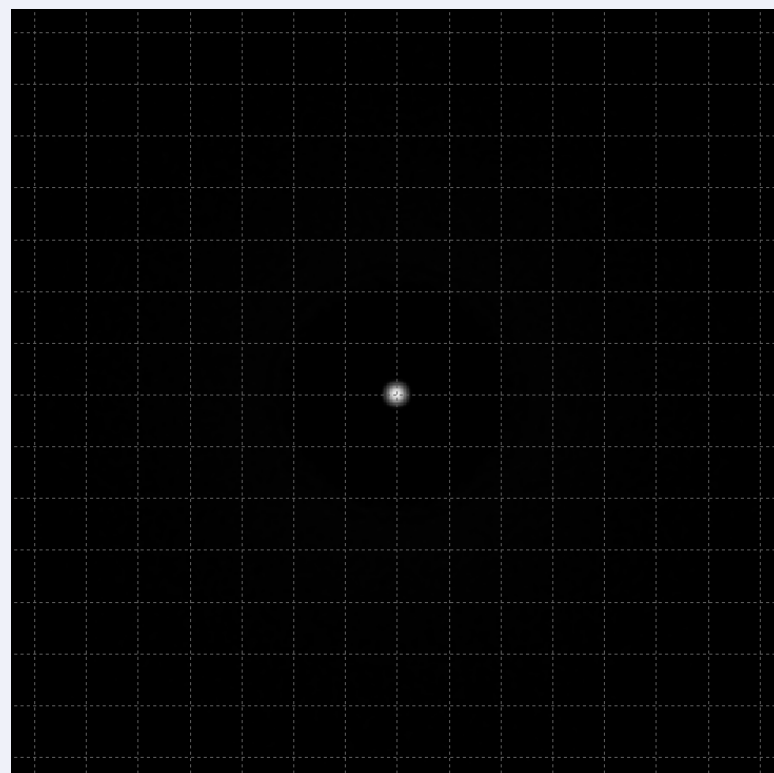
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



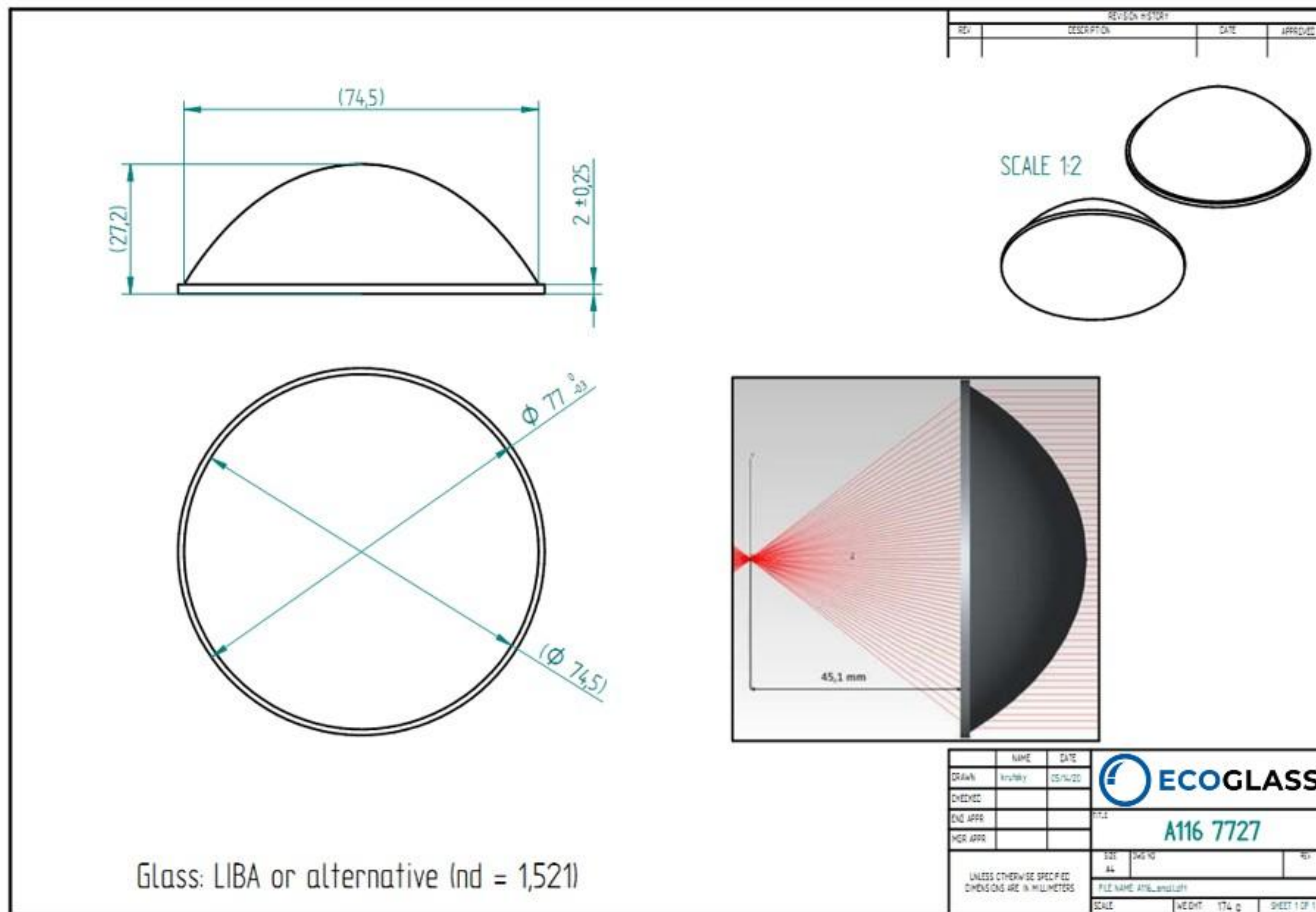
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
FWHM Co [°]	5
FWHM C90 [°]	5

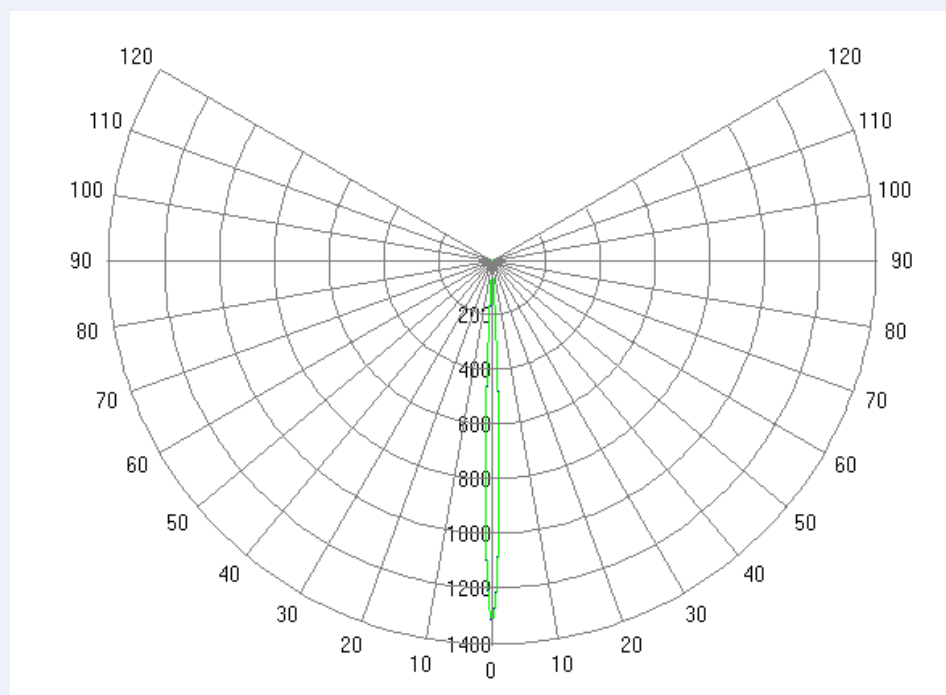
* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A116 7727

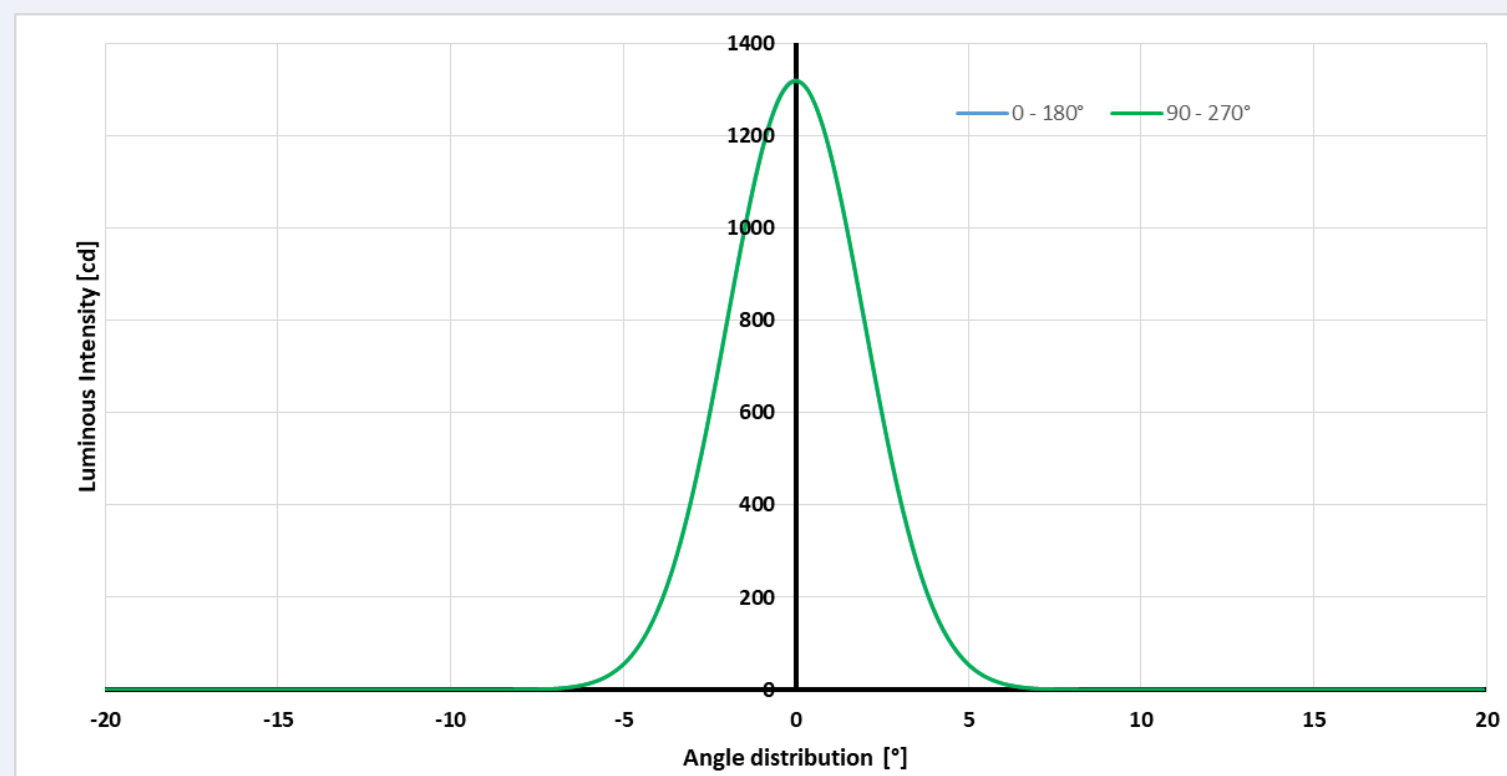


A116 7727 – simulation results

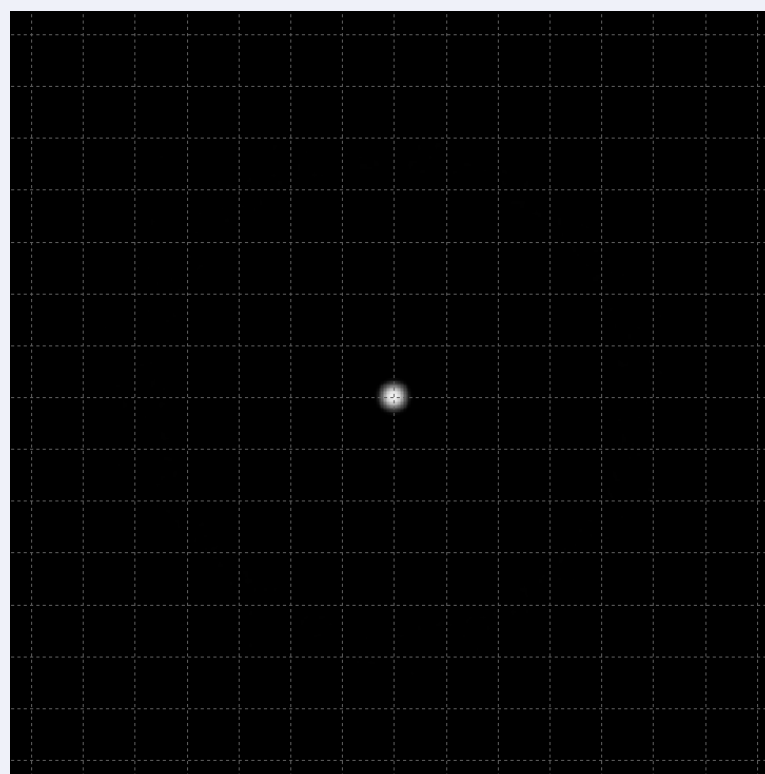
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



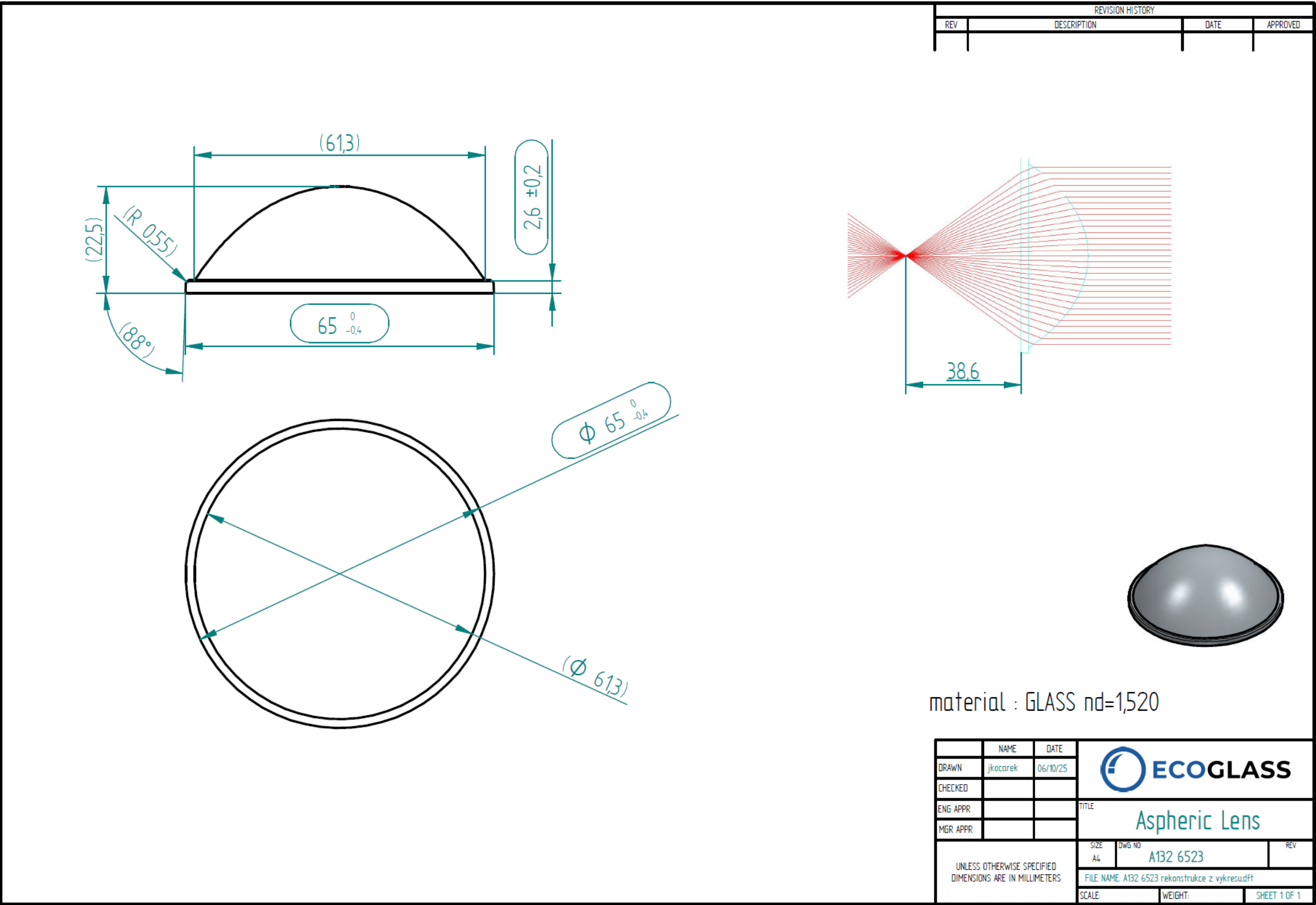
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
FWHM Co [°]	5
FWHM C90 [°]	5

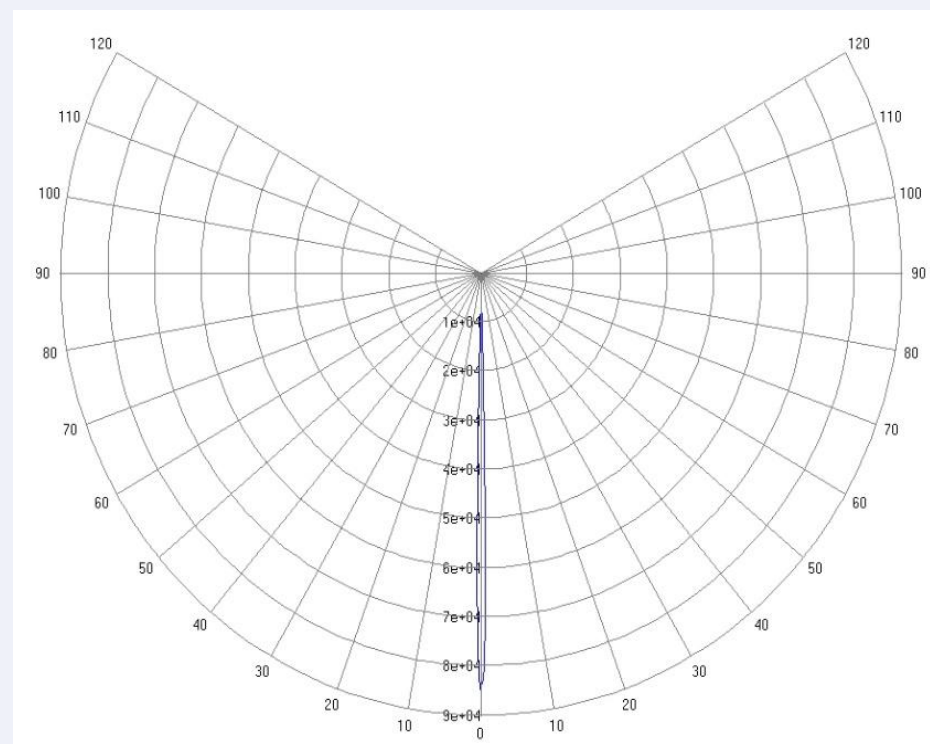
* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A132 6523

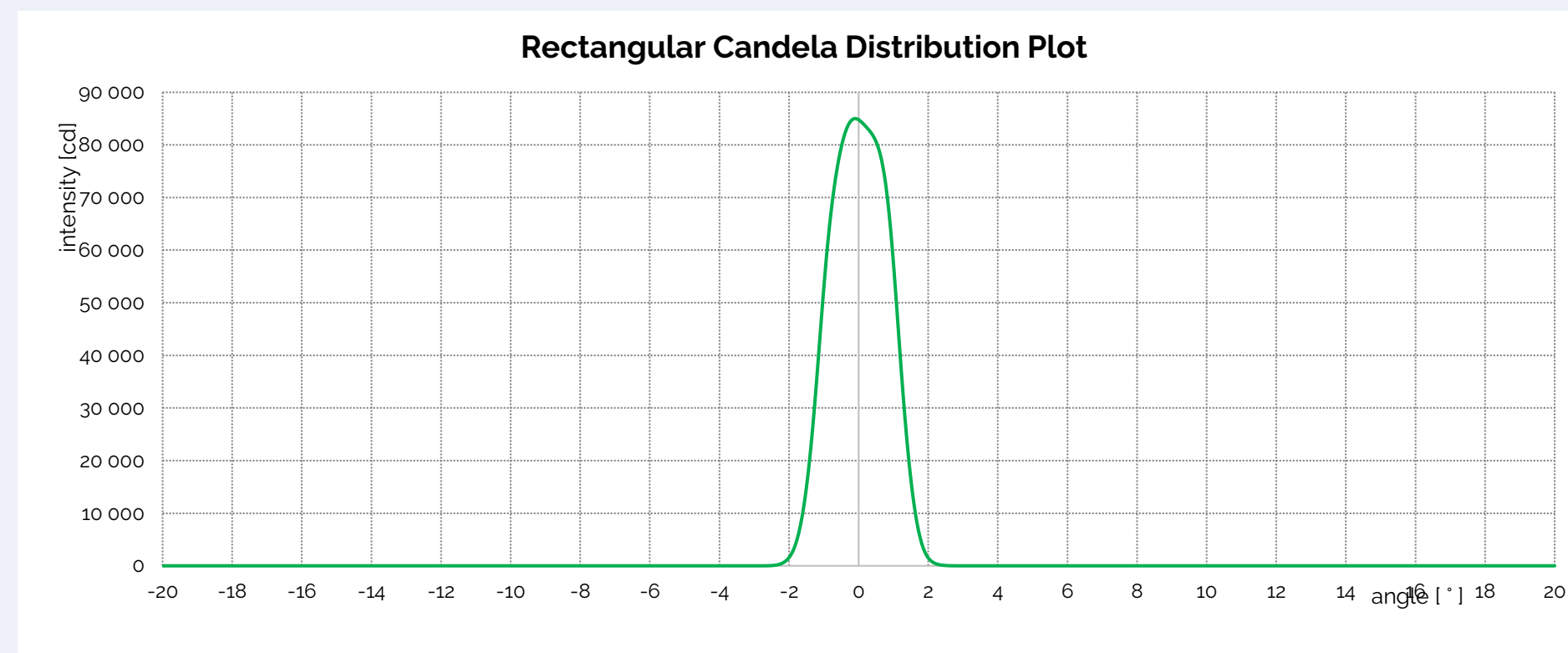


A132 6523 – simulation results

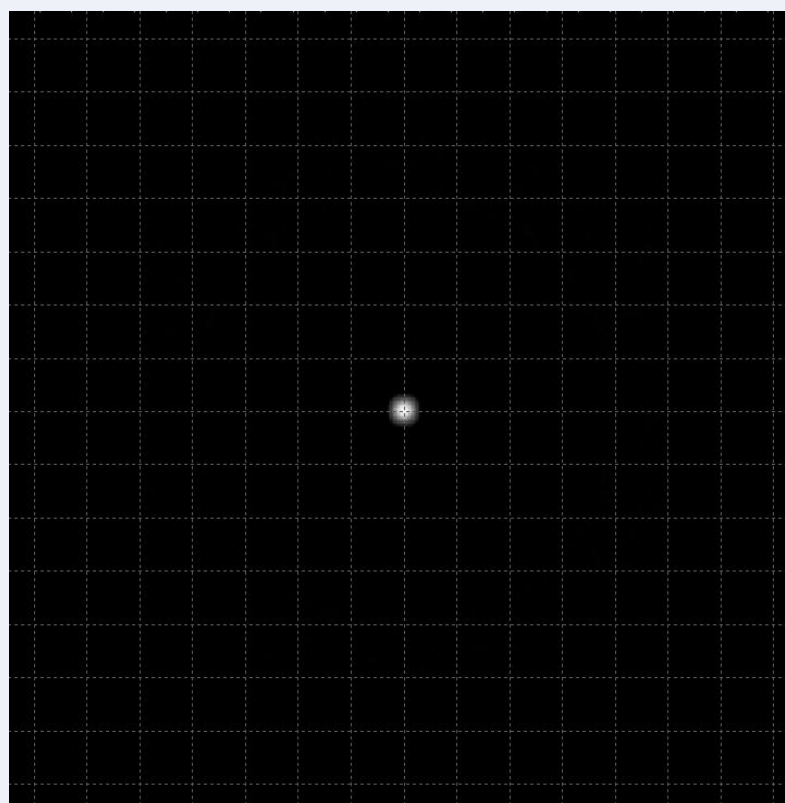
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot

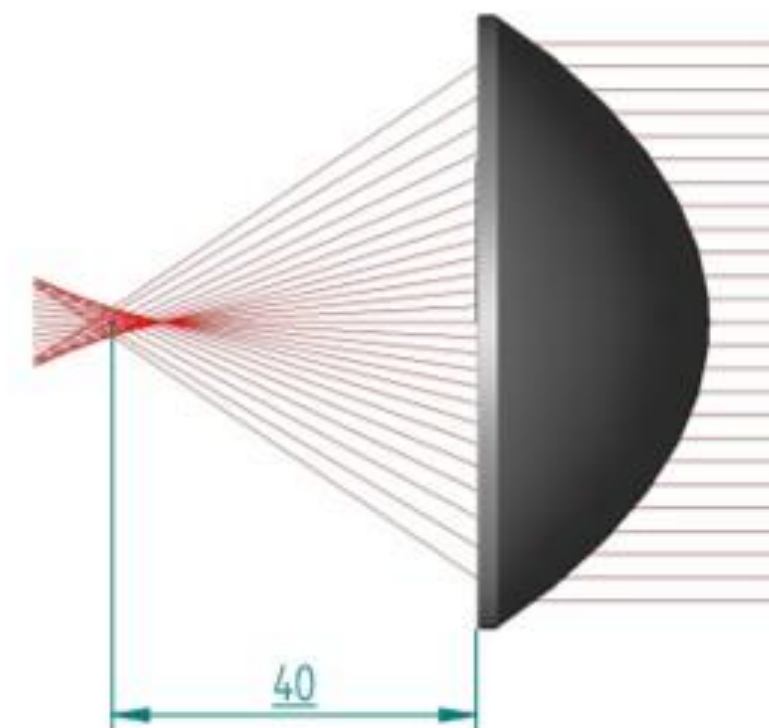
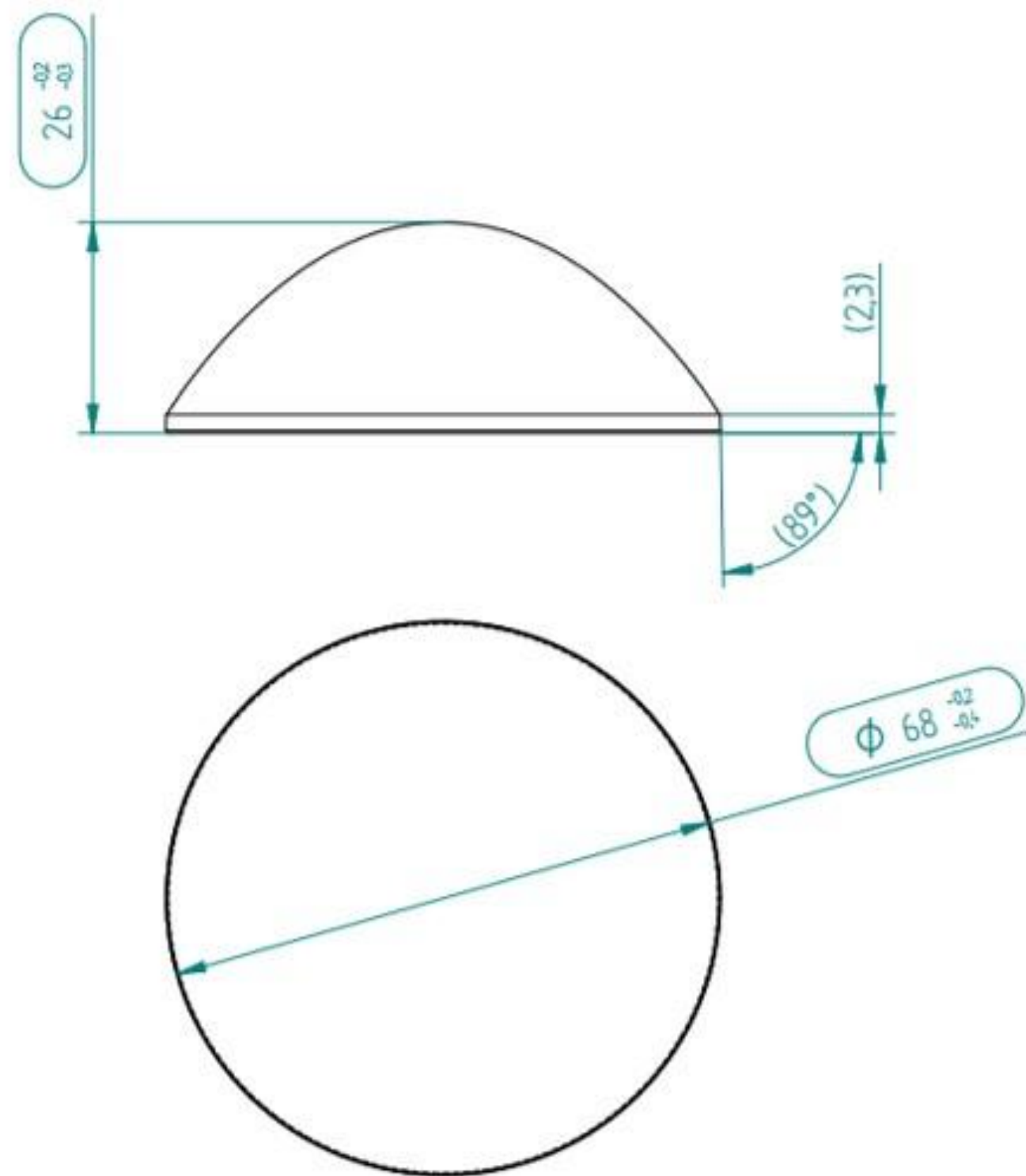


- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G4
Luminous flux of LED [lm]	350
FWHM Co [°]	2,5
FWHM C180 [°]	2,5

A163 6827

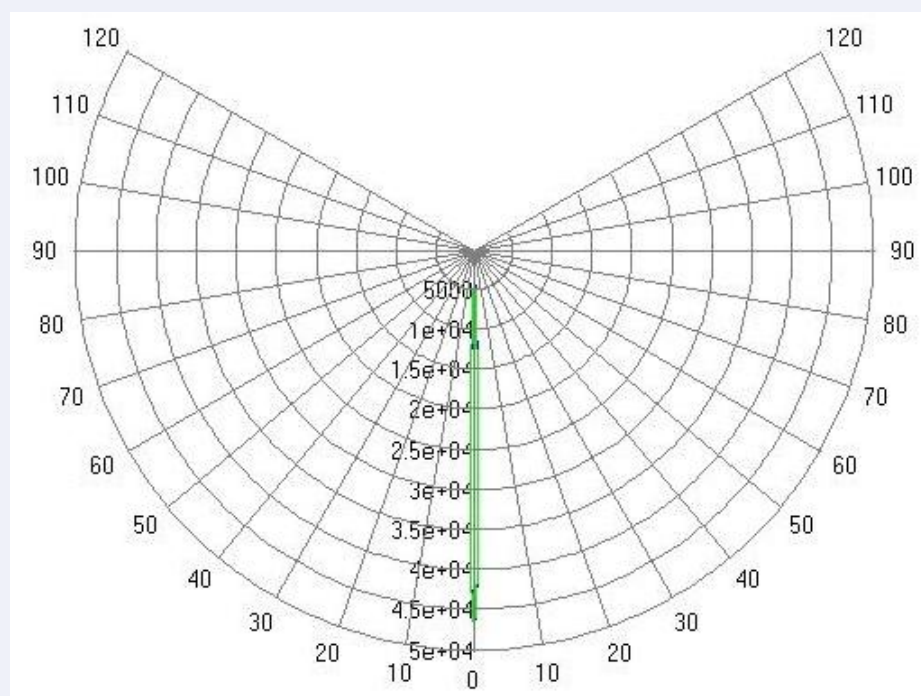
[BACK TO LIST](#)


material : GLASS $n_d = 1,520$

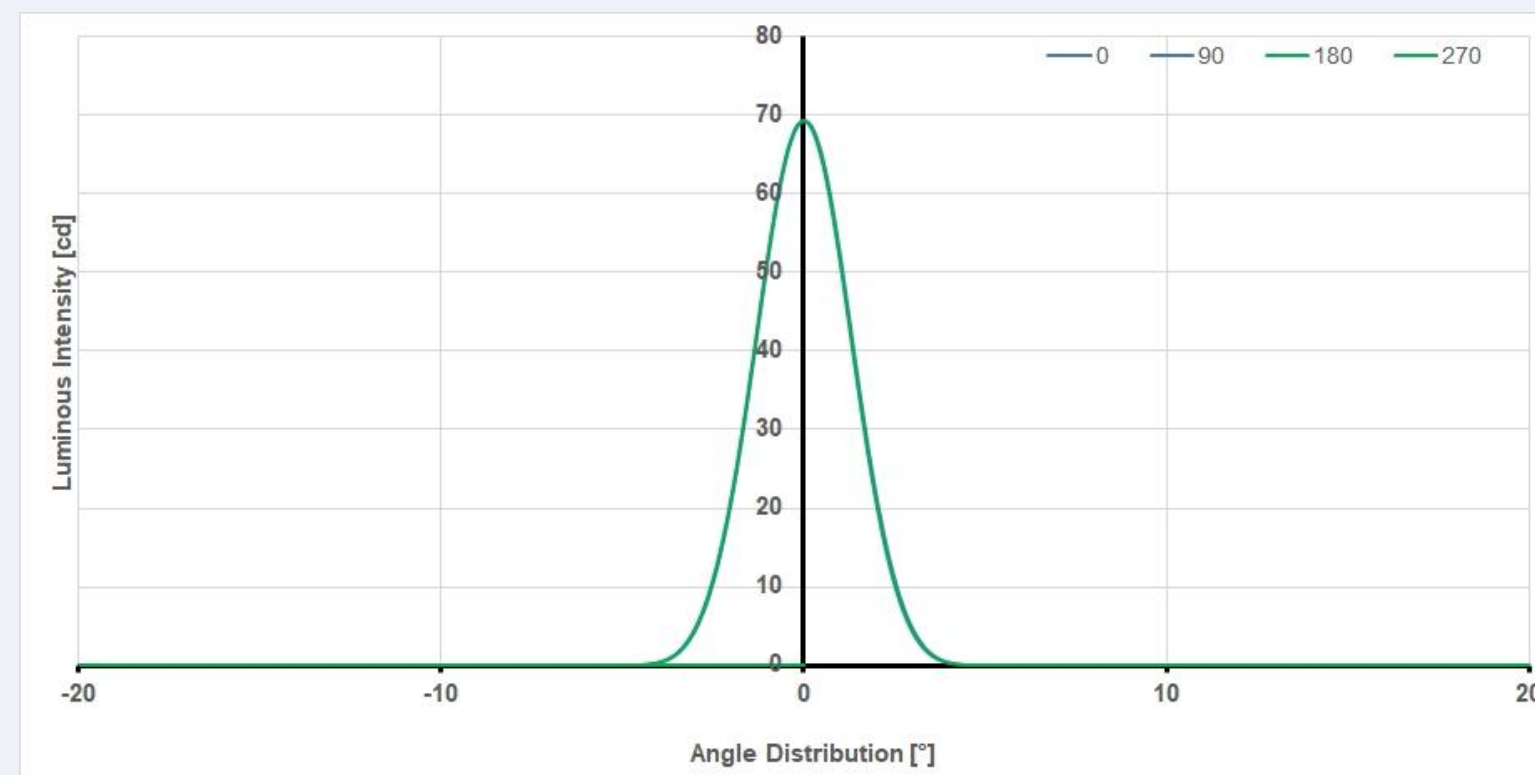
	NAME	DATE		
DRAWN	jkocarek	09/14/23		
CHECKED			TITLE	
ENG APPR				
MGR APPR			Aspheric Lens	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES ±X.X° 2 PL ±X.XX 3 PL ±X.XXX			SIZE	DWG NO
			A4	A163 6827
			FILE NAME:	A163 6827.dft
			SCALE:	WEIGHT:
			SHEET 1 OF 1	

A163 6827 – simulation results

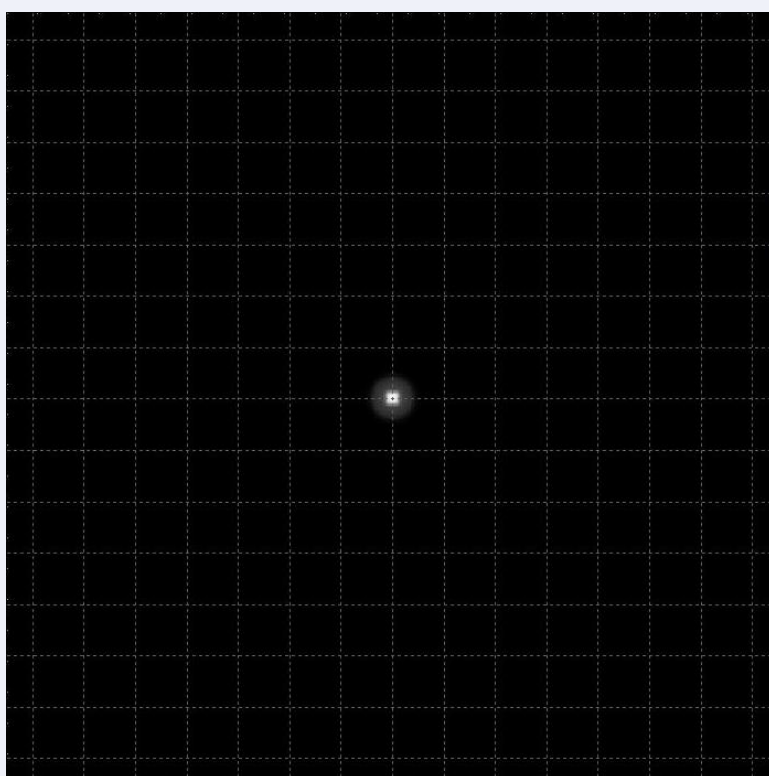
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



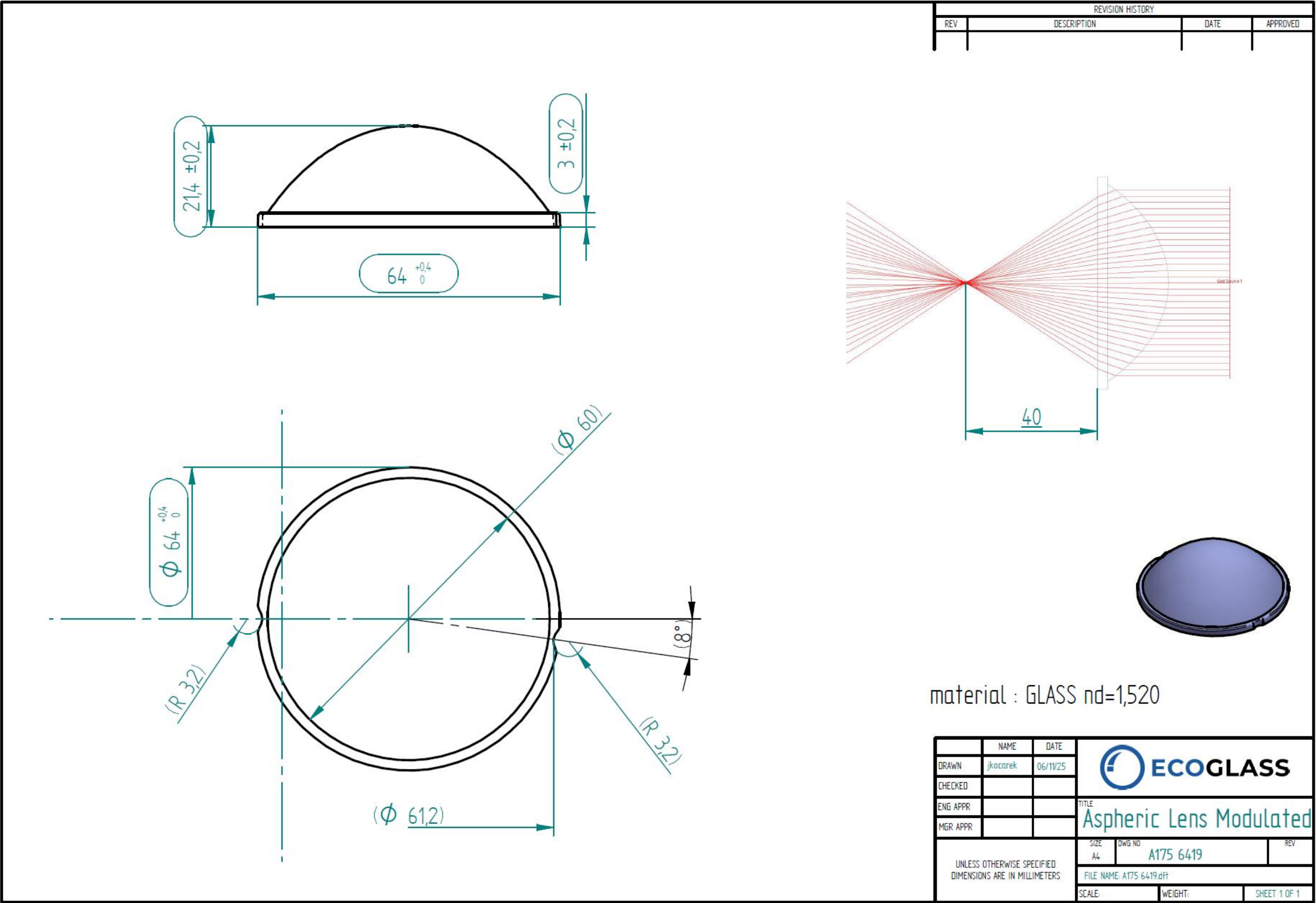
- Projection wall 3x3 m at 1m



LED used for simulation	XP-G4
Luminous flux of LED [lm]	357
FWHM Co [°]	3
FWHM C90 [°]	3

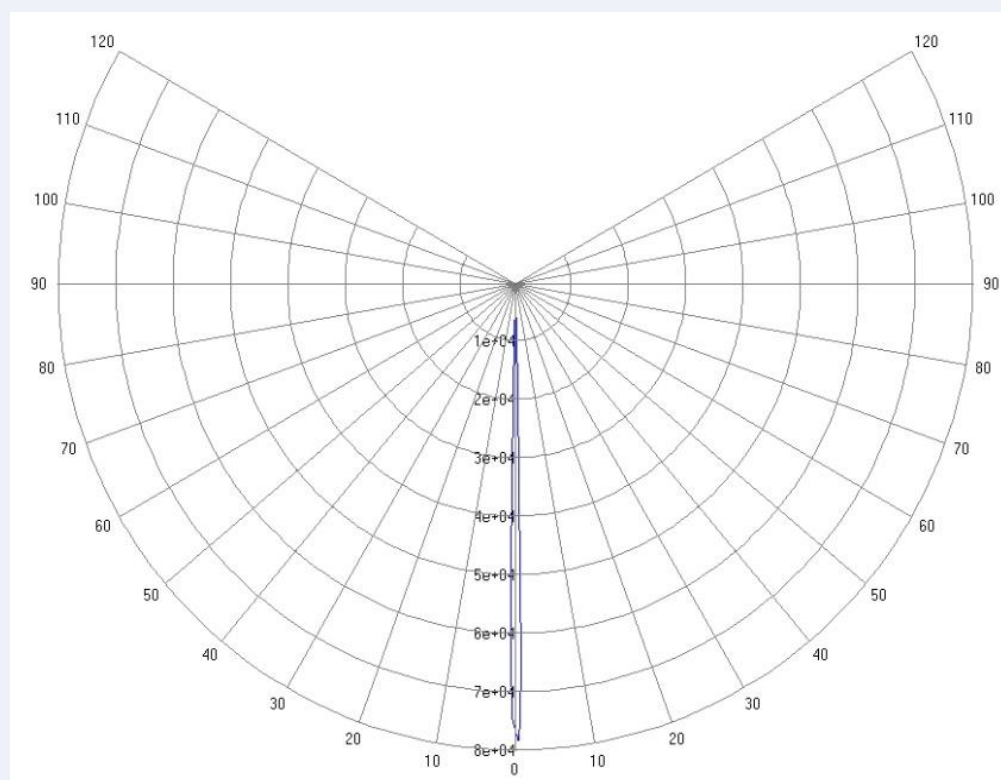
* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A175 6419

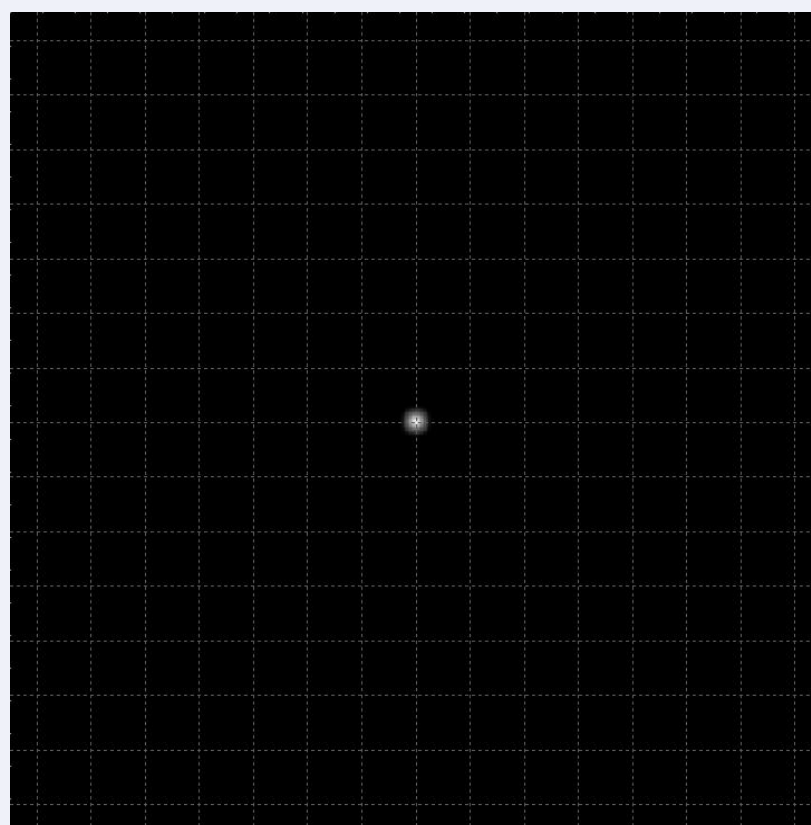


A175 6419 – simulation results

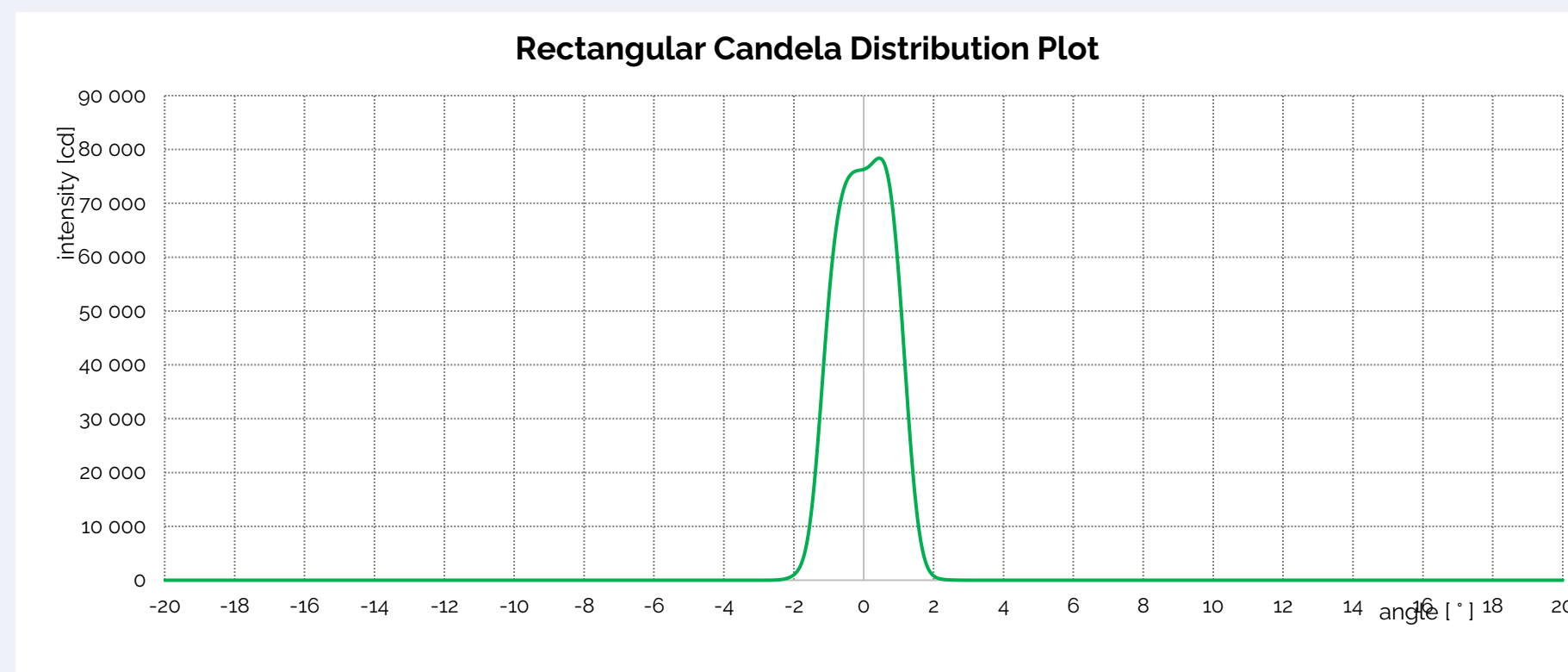
- Polar Candela Distribution Plot



- Projection wall 3x3 m at 1m

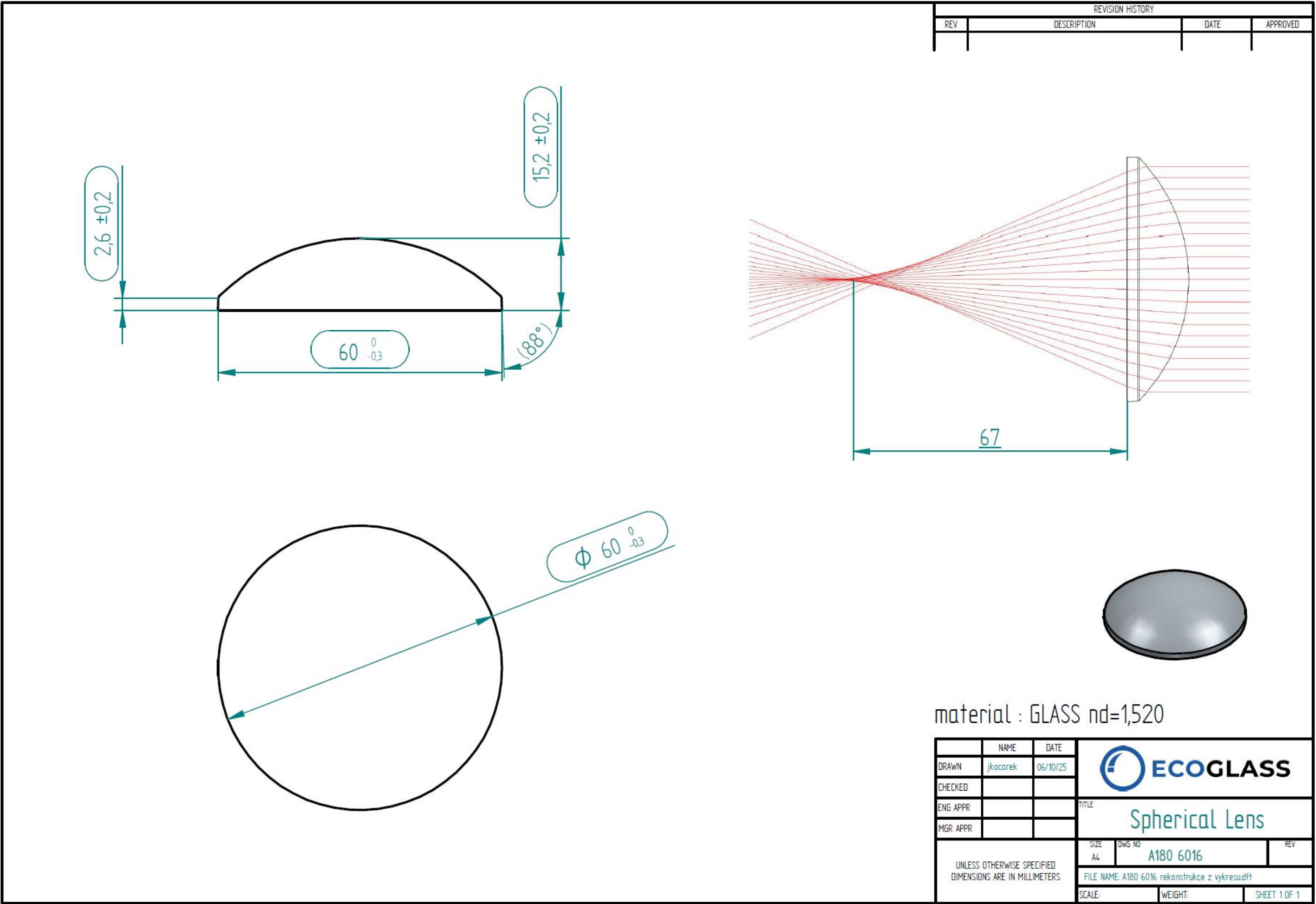


- Rectangular Candela Distribution Plot



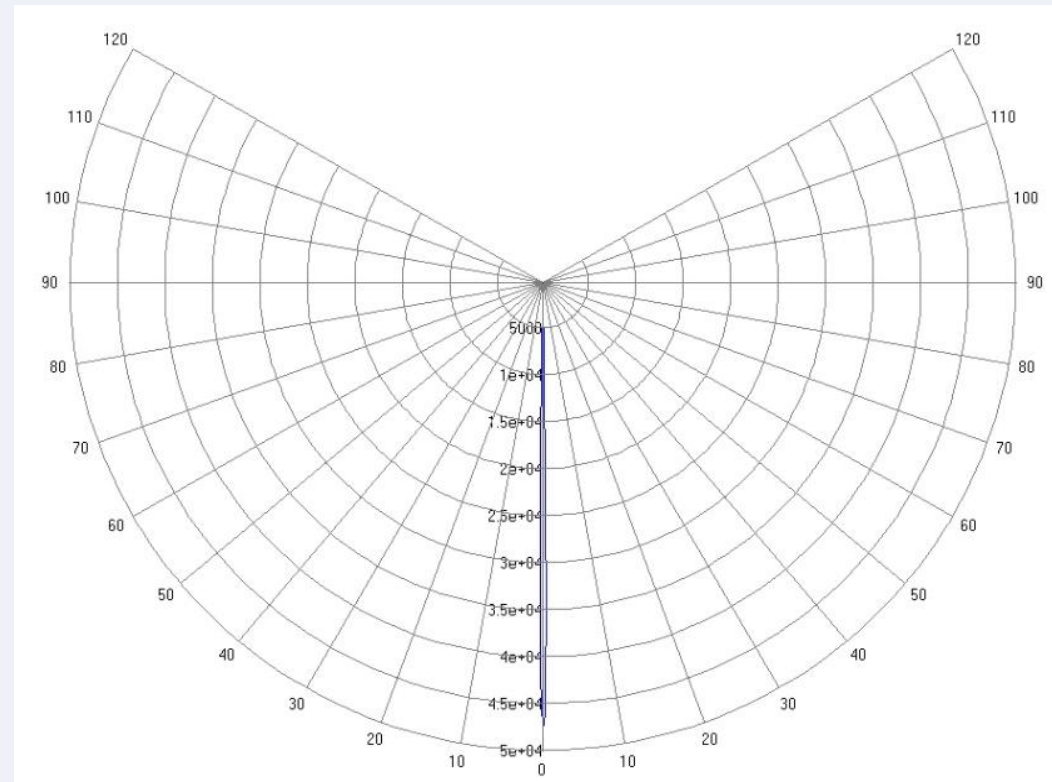
LED used for simulation	XP-G4
Luminous flux of LED [lm]	350
FWHM Co [°]	2,5
FWHM C180 [°]	2,5

A180 6016

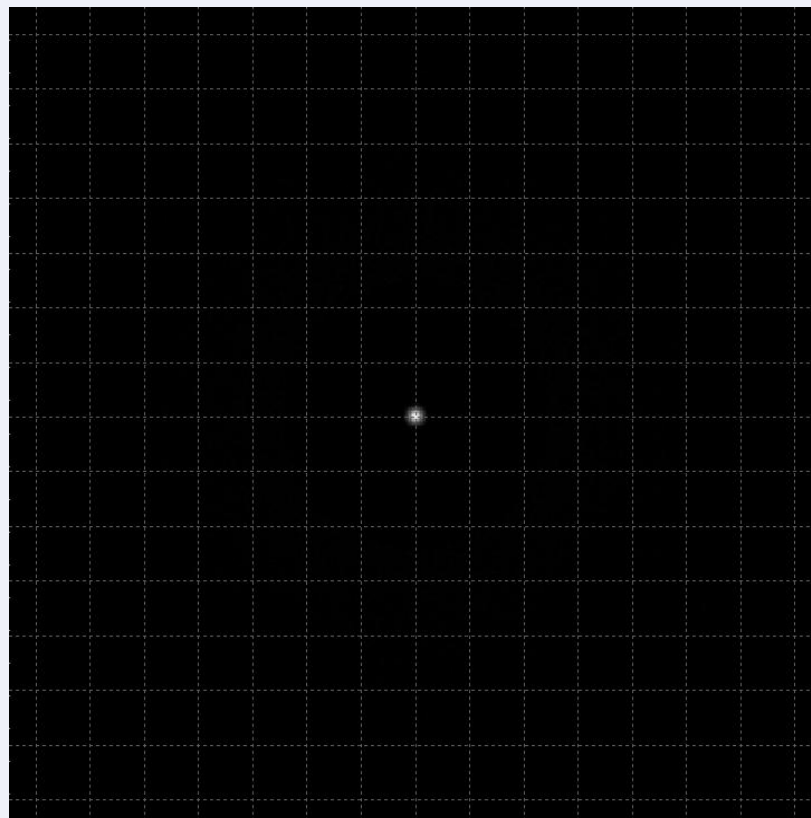


A180 6016 – simulation results

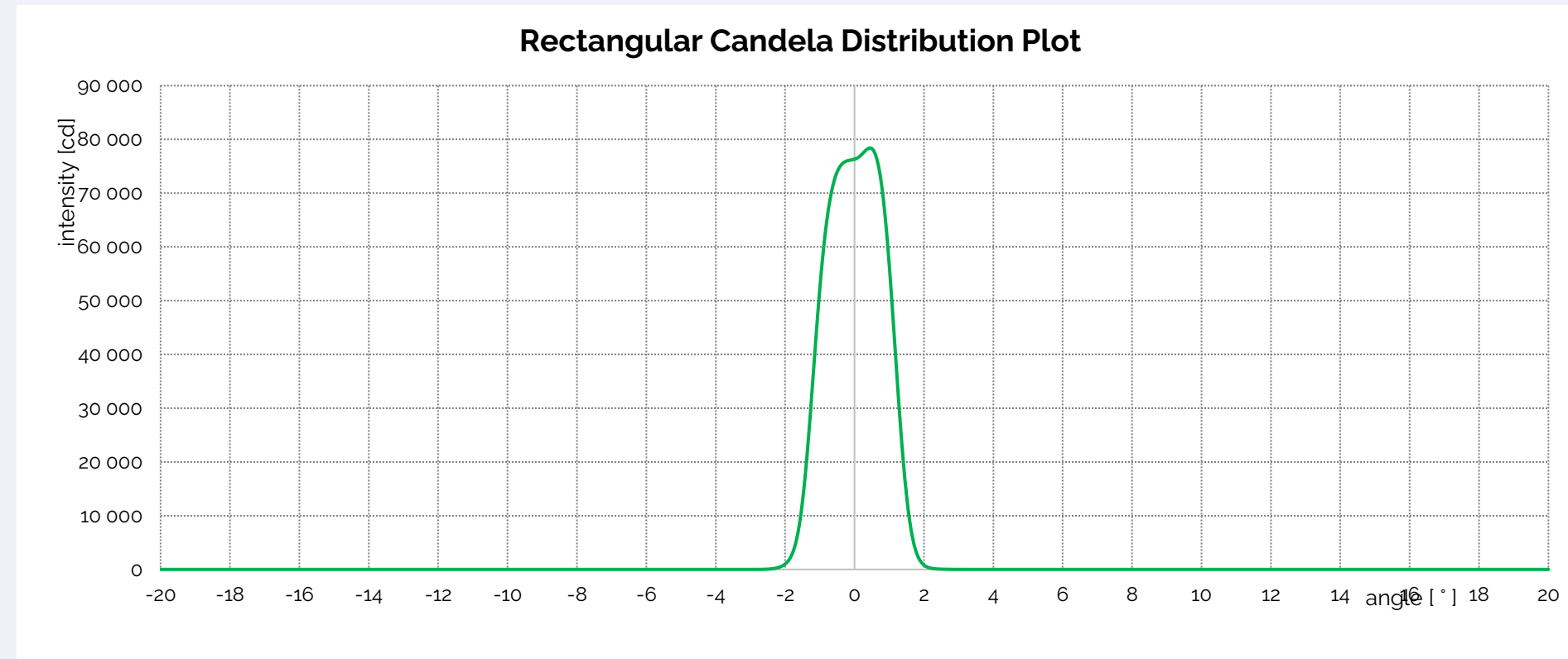
- Polar Candela Distribution Plot



- Projection wall 3x3 m at 1m

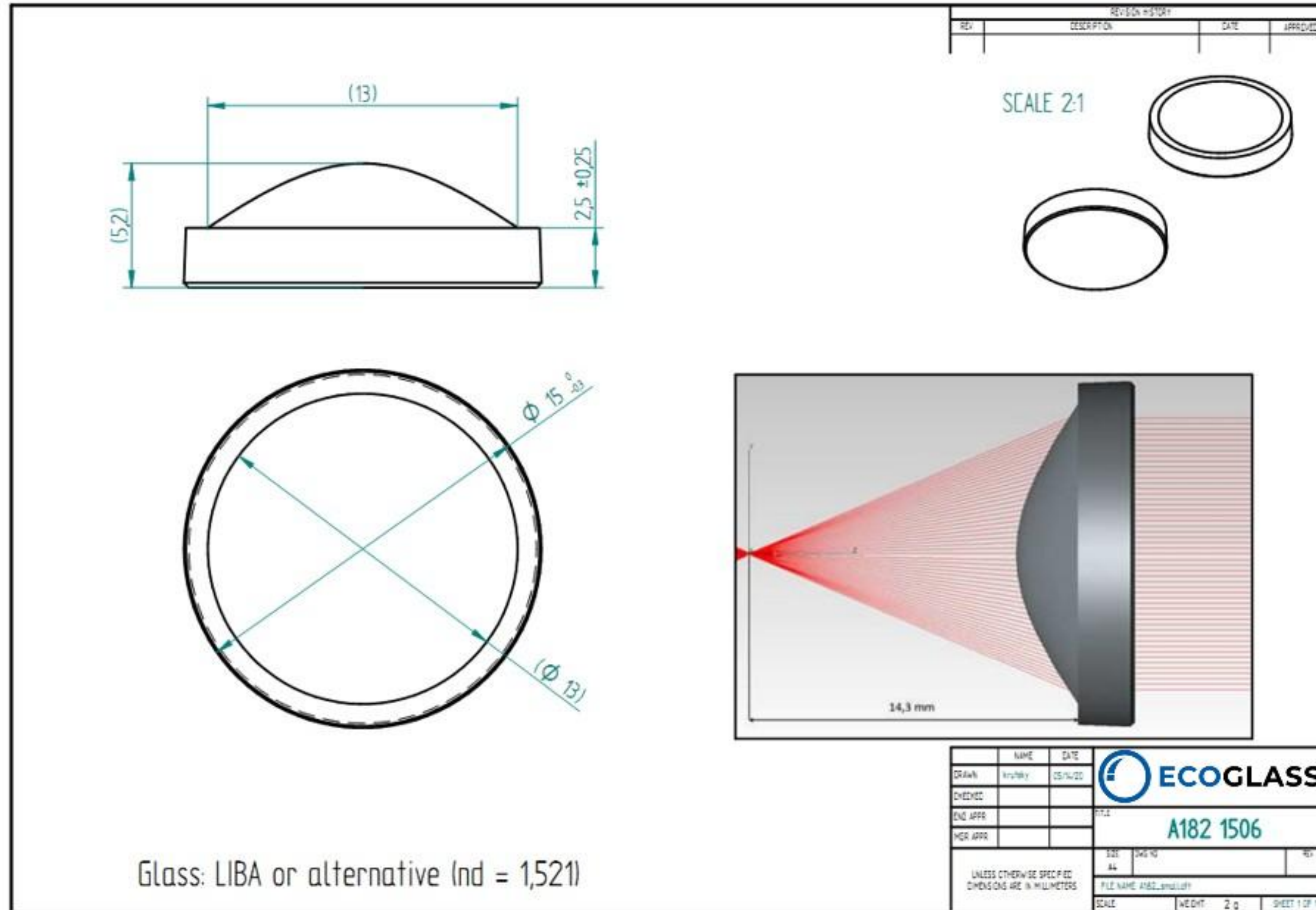


- Rectangular Candela Distribution Plot



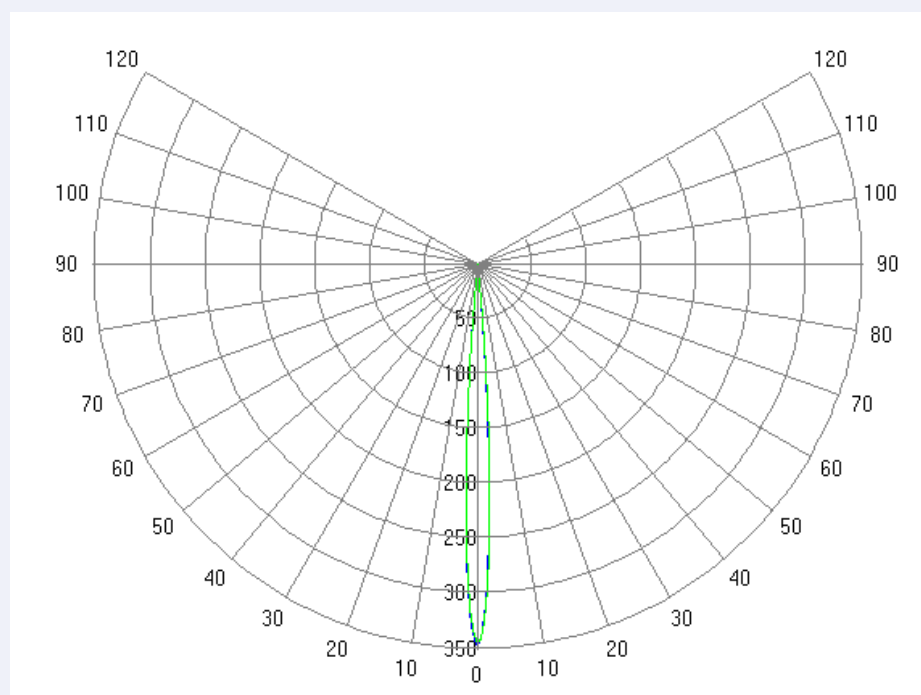
LED used for simulation	XP-G4
Luminous flux of LED [lm]	350
FWHM Co [°]	2,5
FWHM C180 [°]	2,5

A182 1506

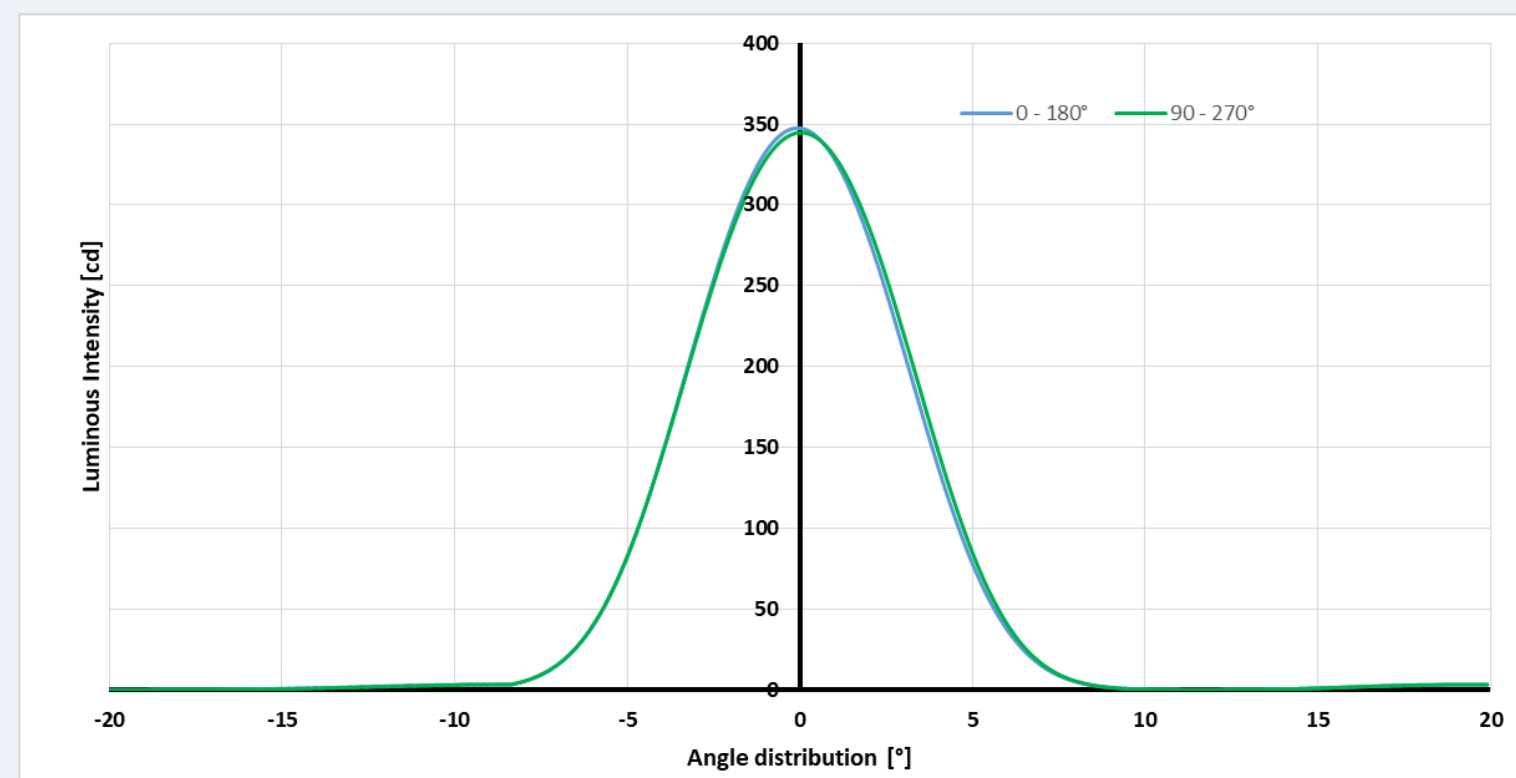


A182 1506 – simulation results

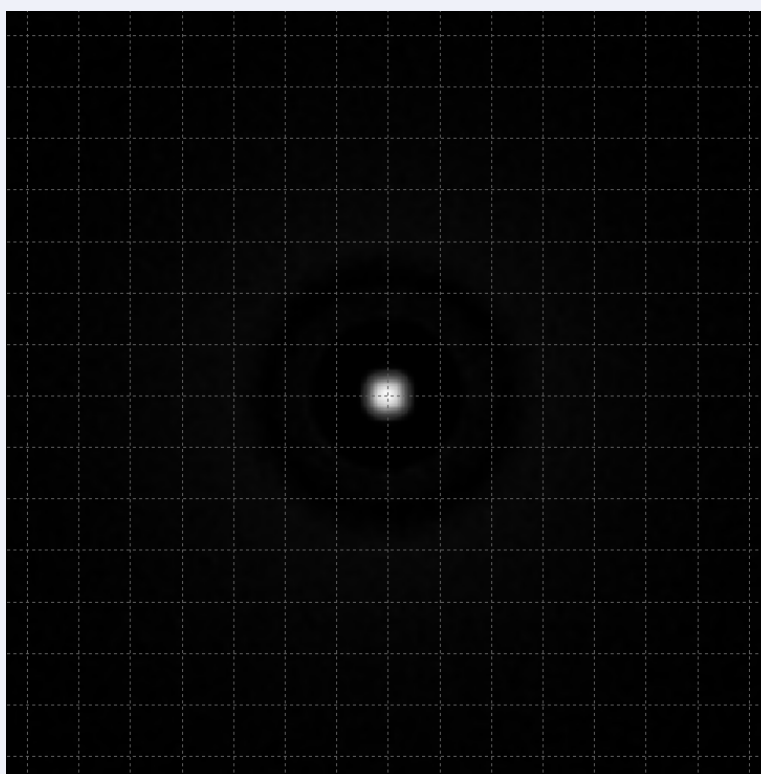
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



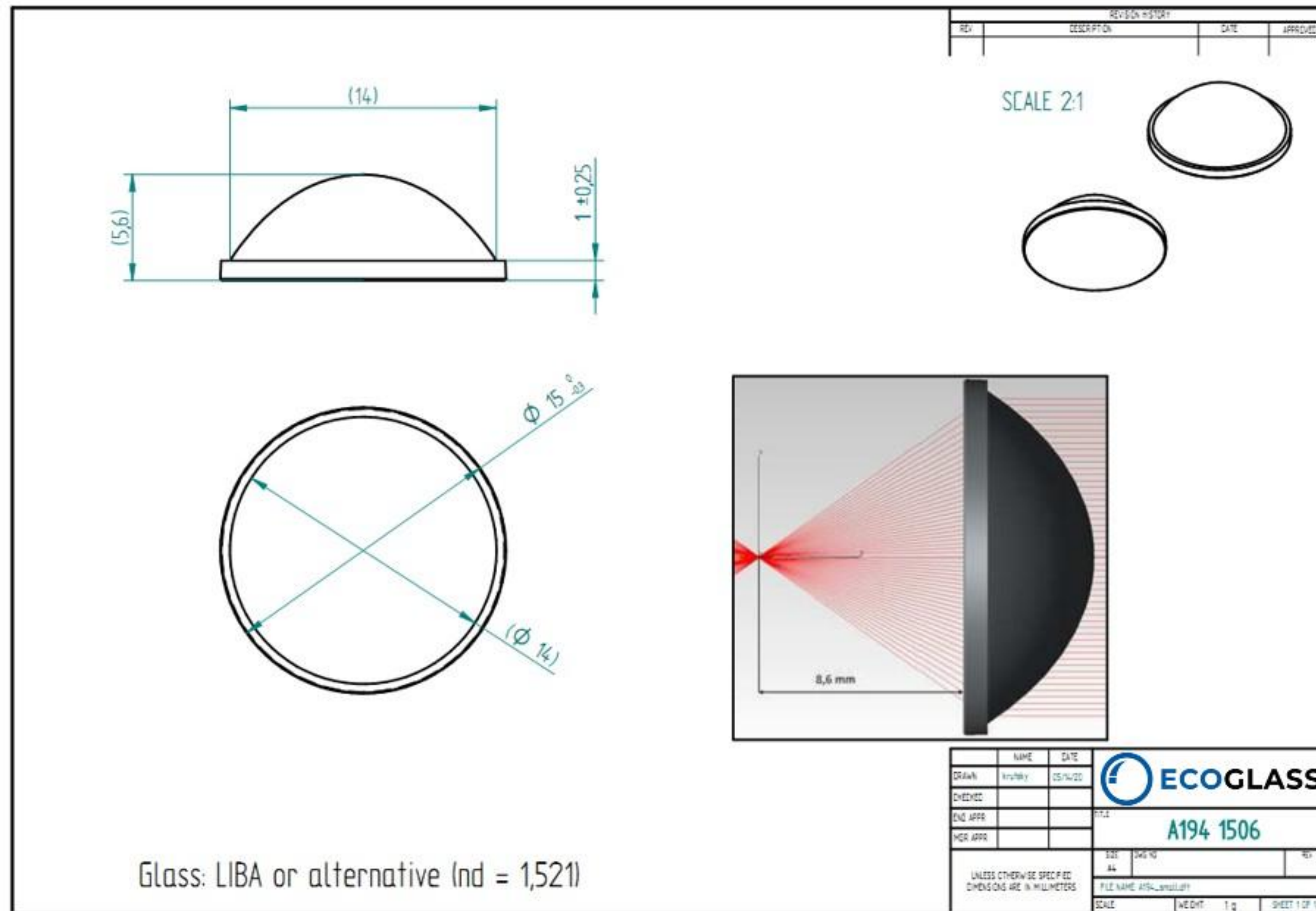
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
FWHM Co [°]	7
FWHM C90 [°]	7

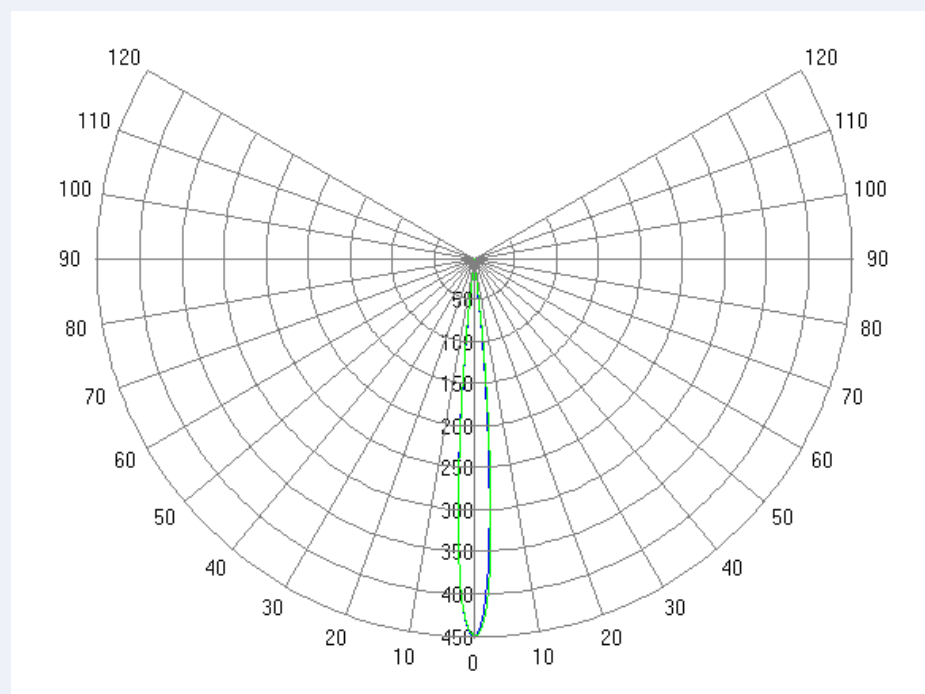
* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A194 1506

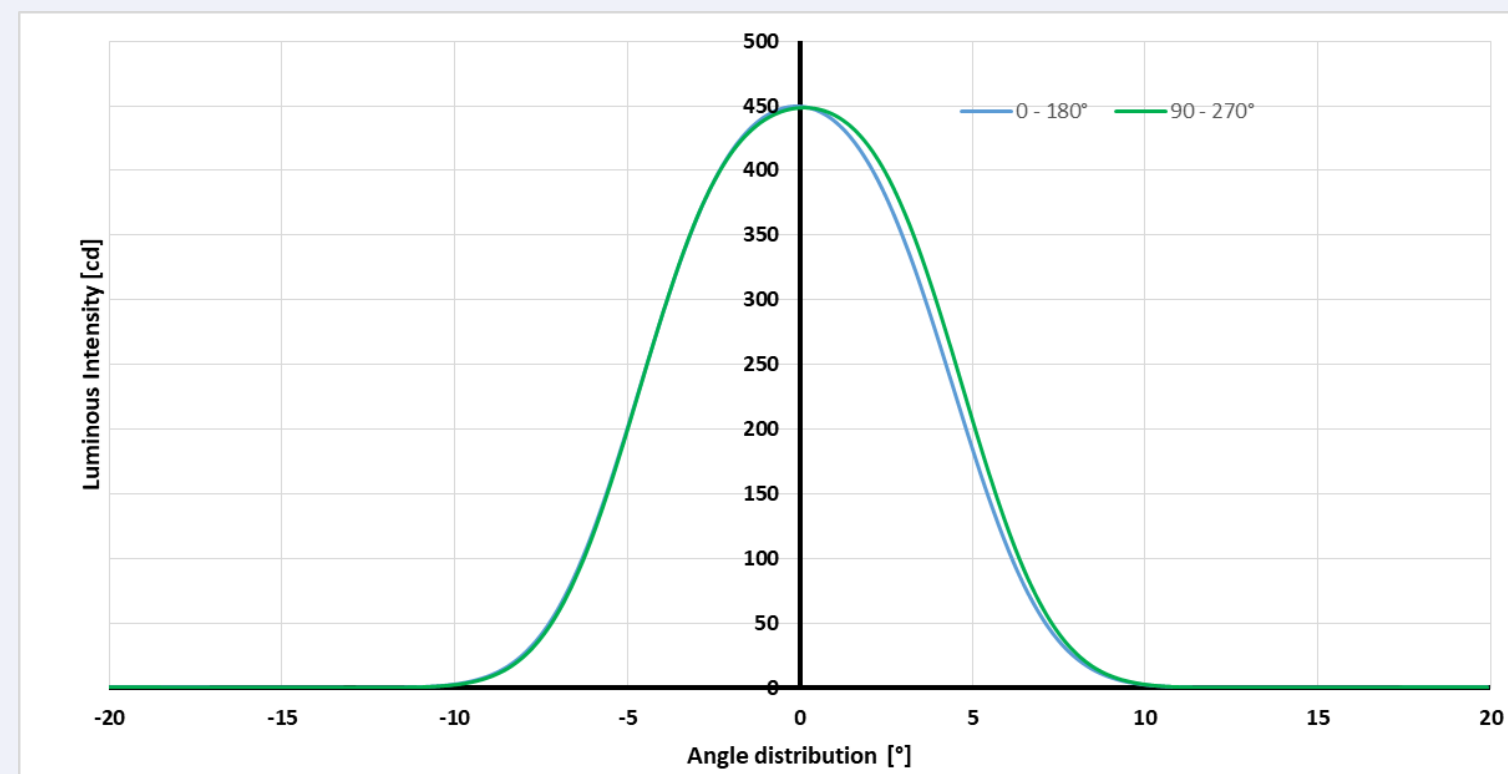


A194 1506 – simulation results

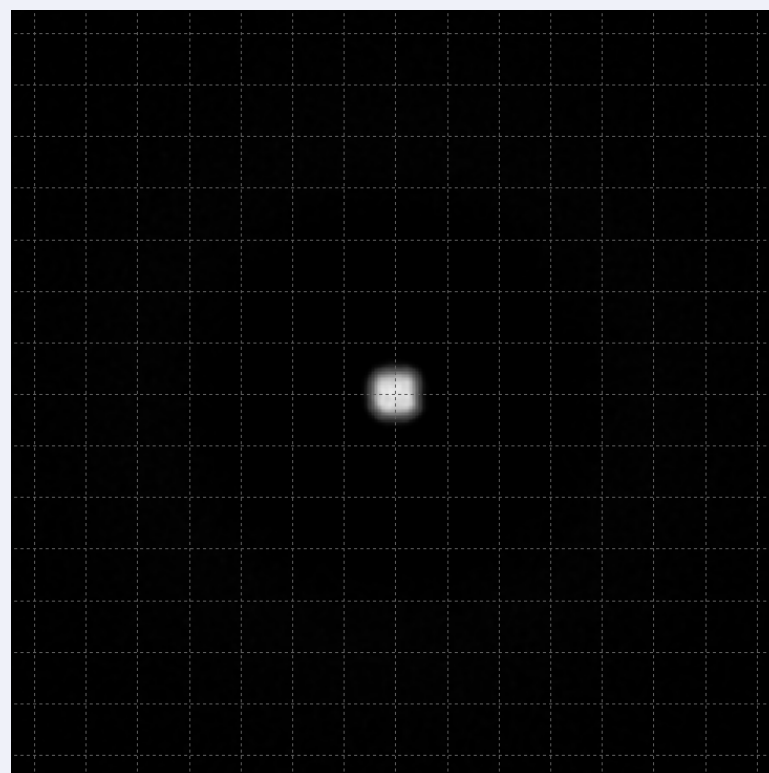
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



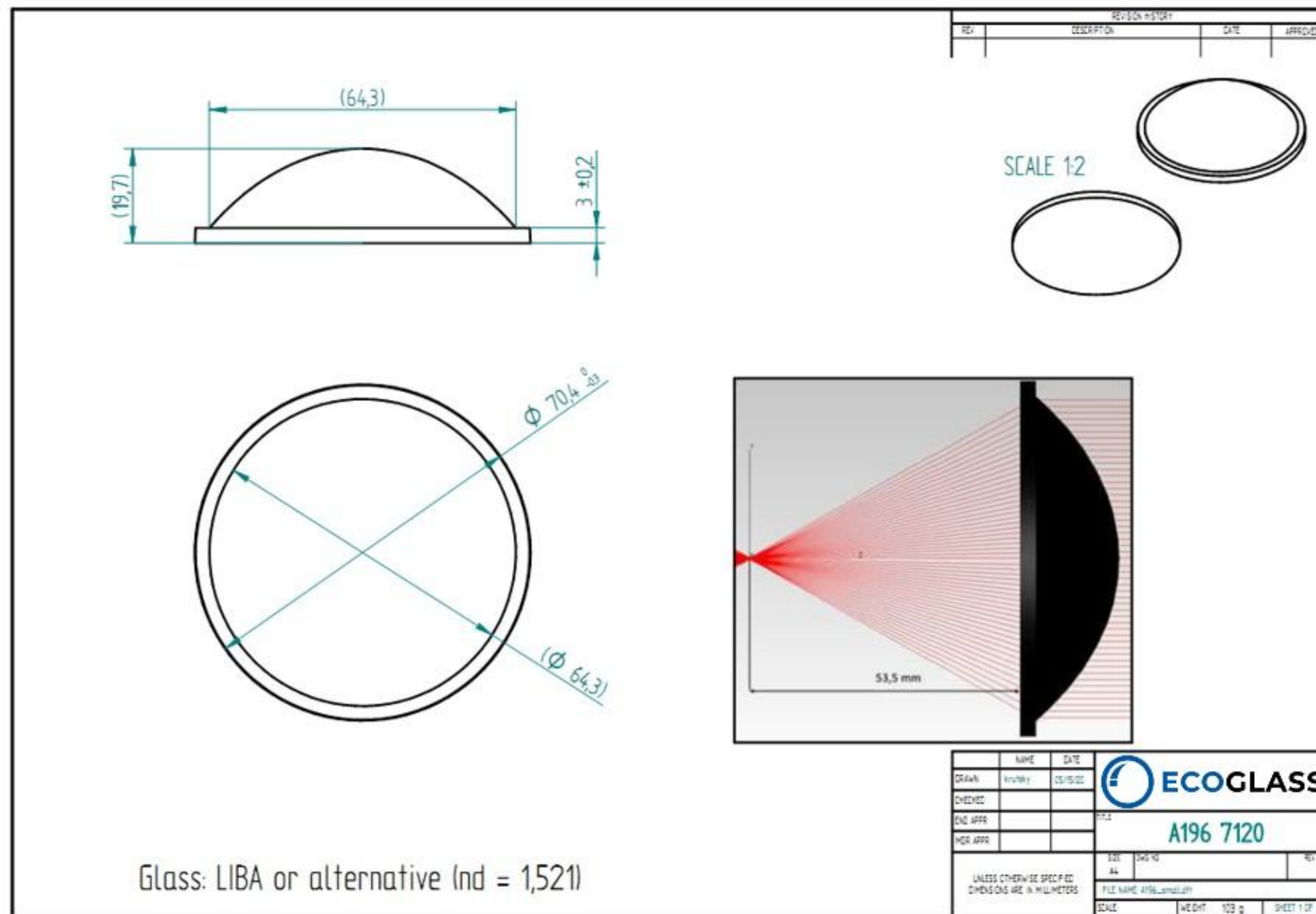
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
FWHM Co [°]	10
FWHM Cgo [°]	10

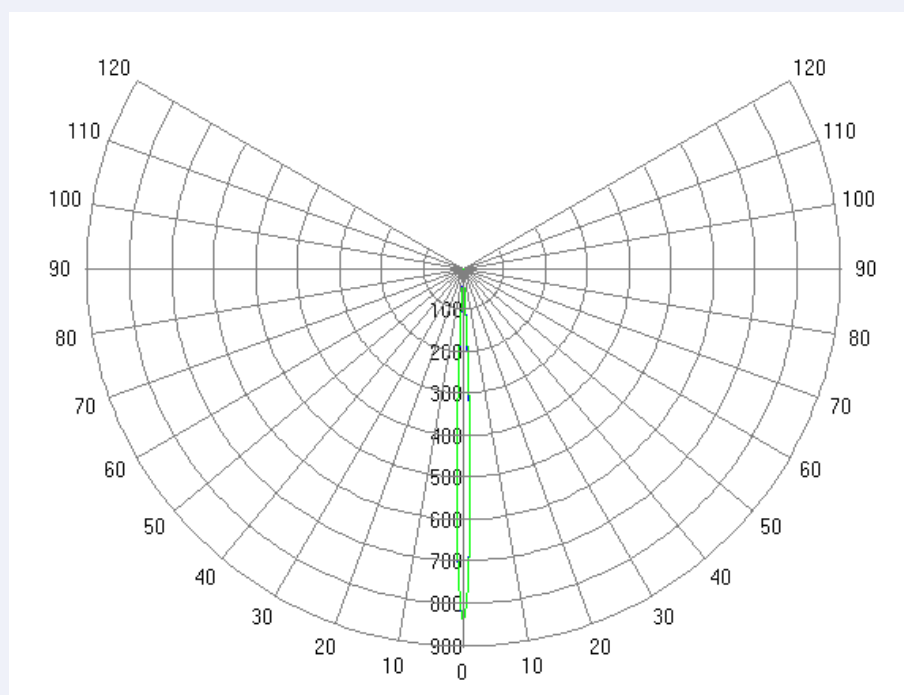
* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A196 7120

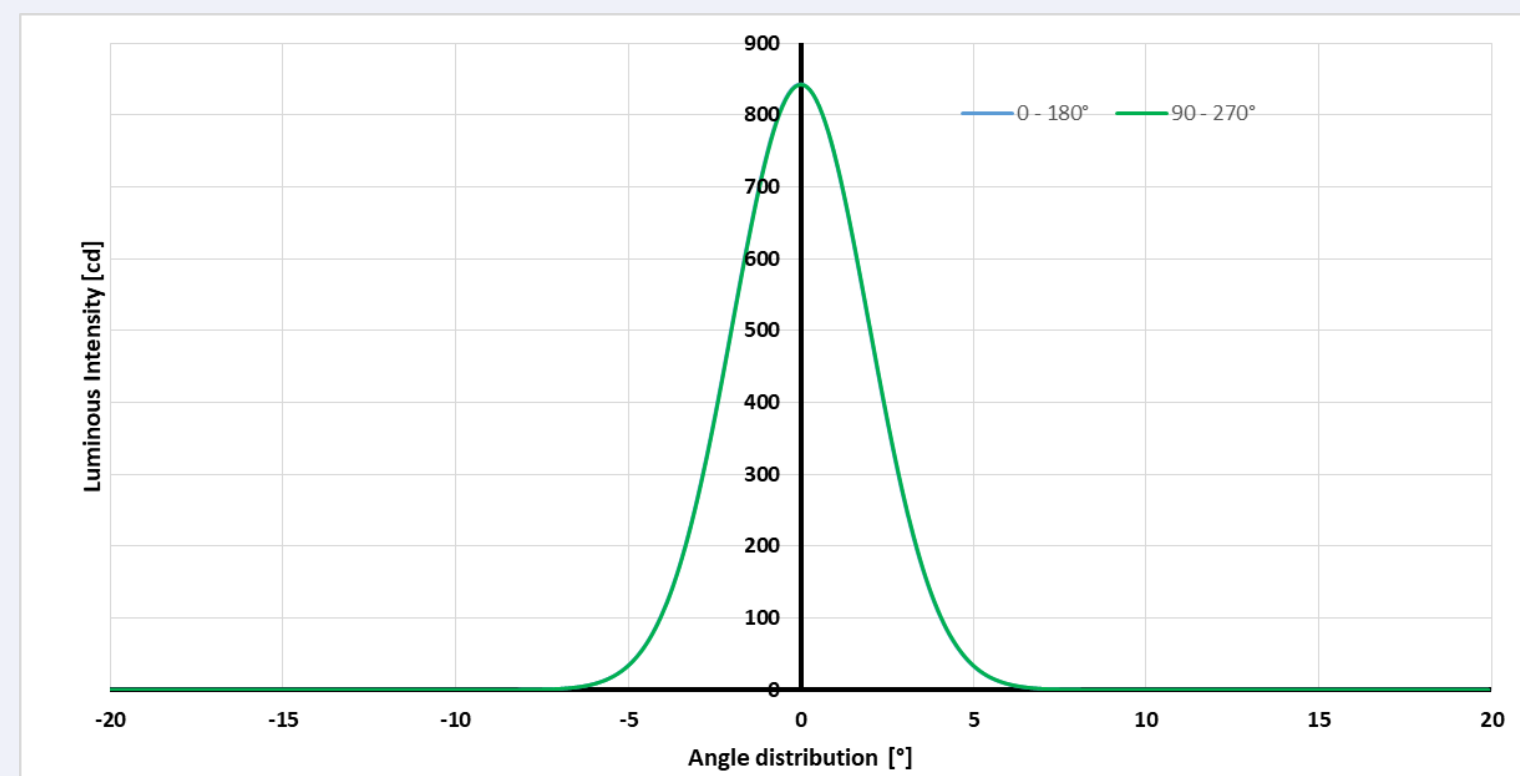
[BACK TO LIST](#)


A196 7120 – simulation results

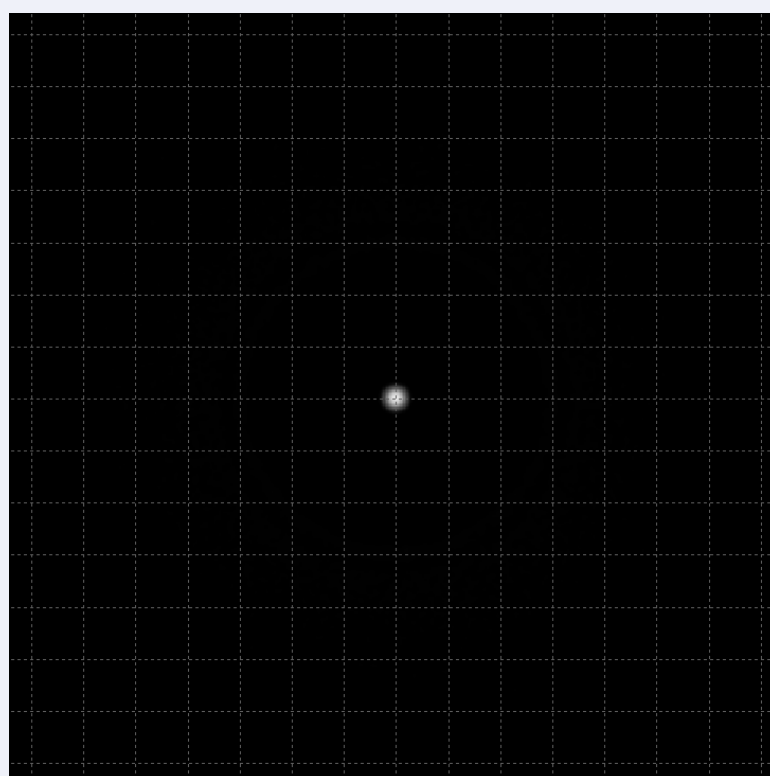
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



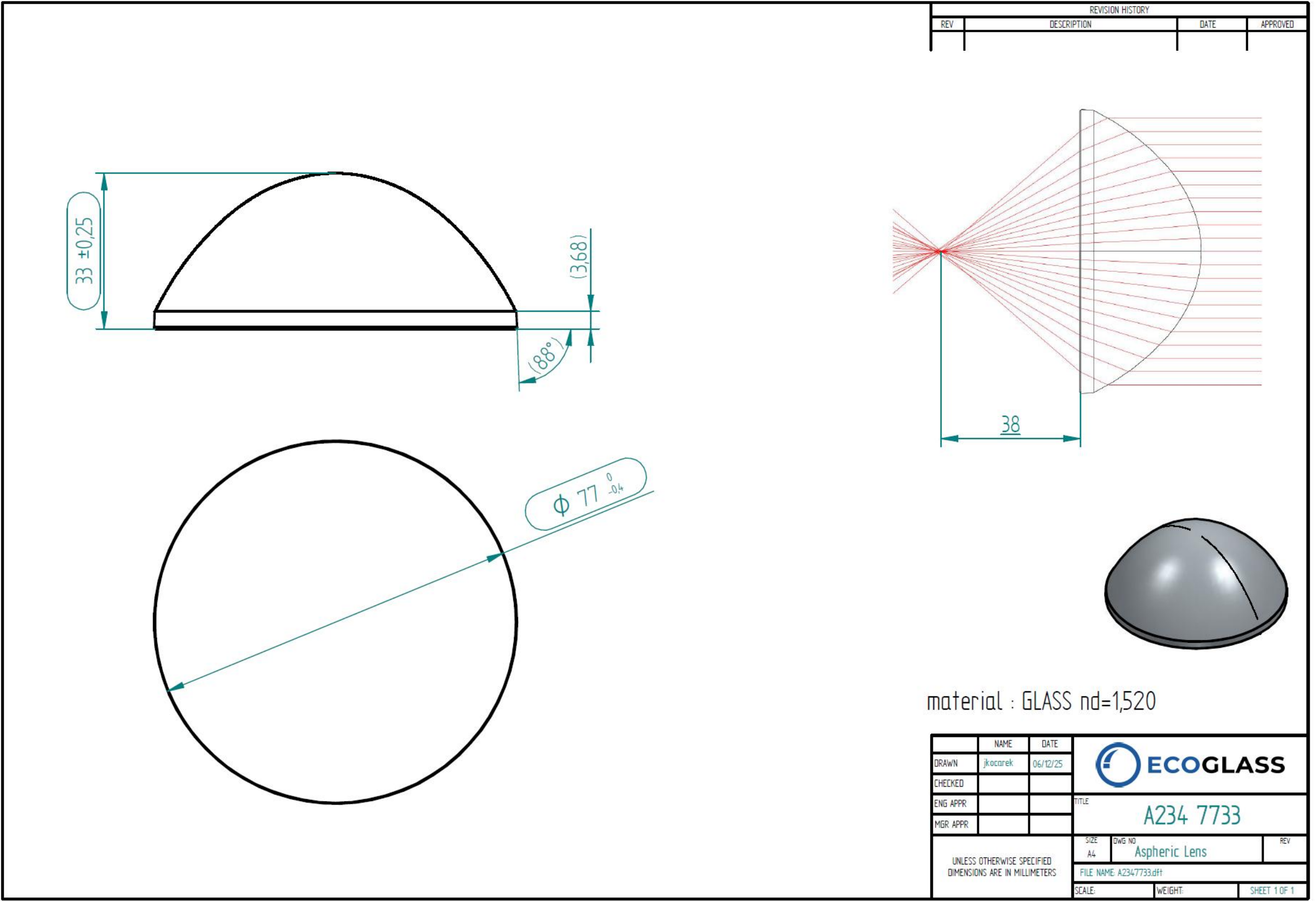
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
FWHM Co [°]	5
FWHM C90 [°]	5

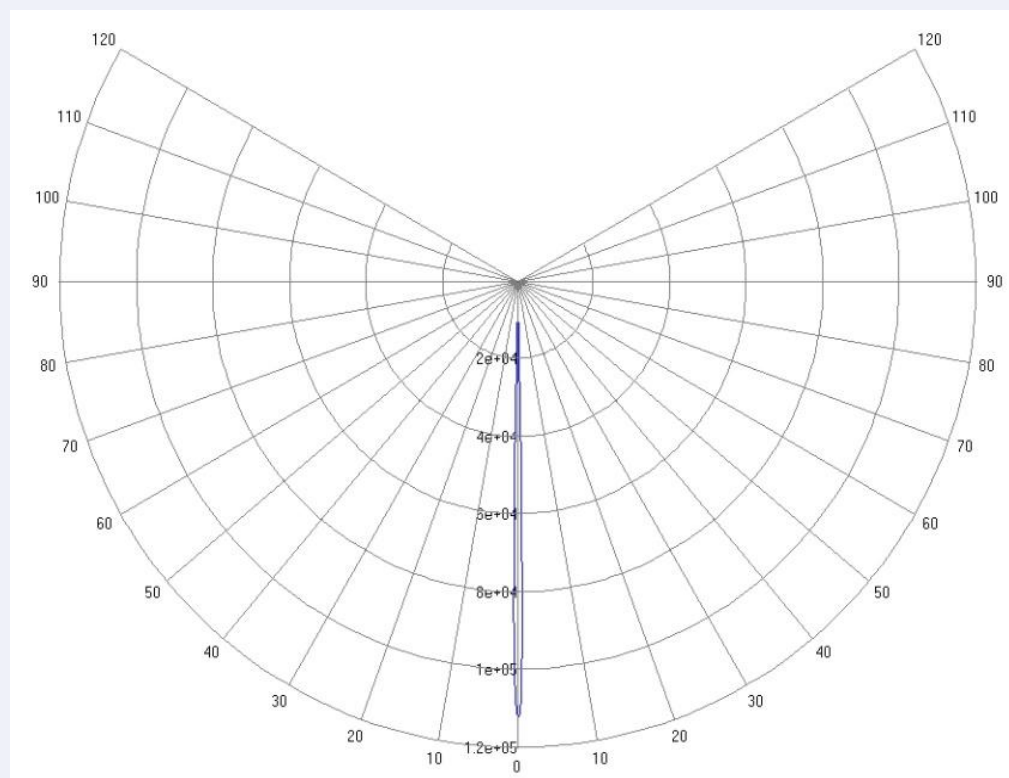
* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A234 7733

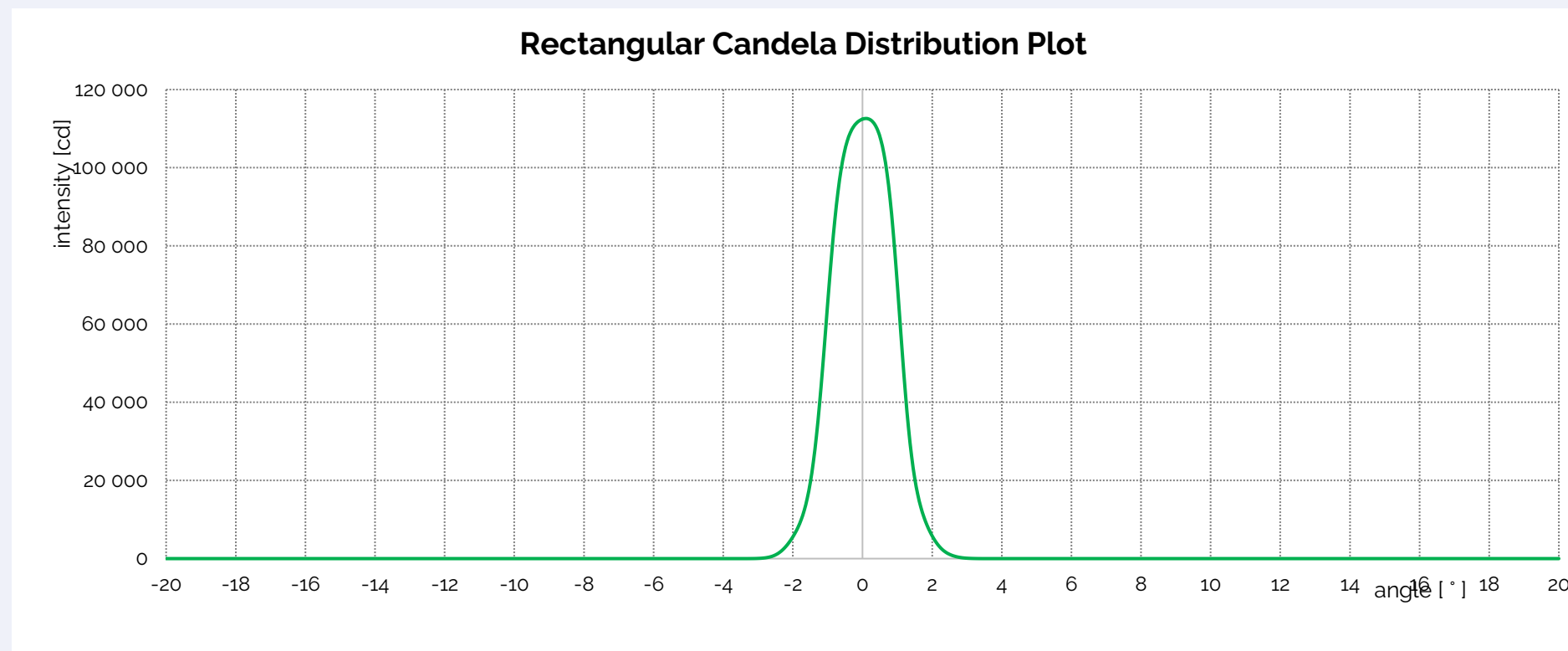


A234 7733 – simulation results

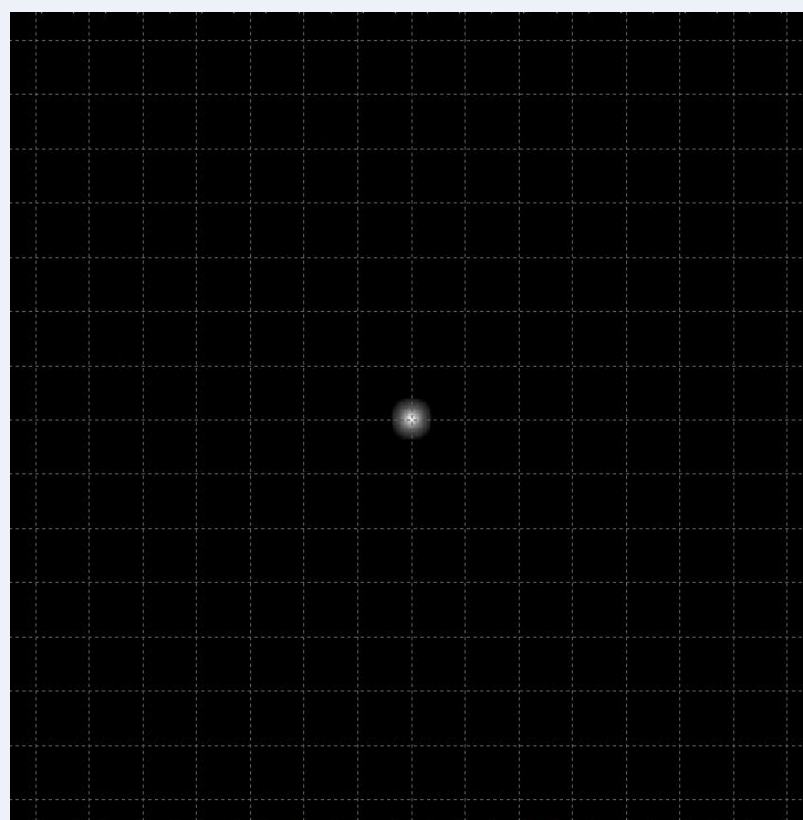
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot

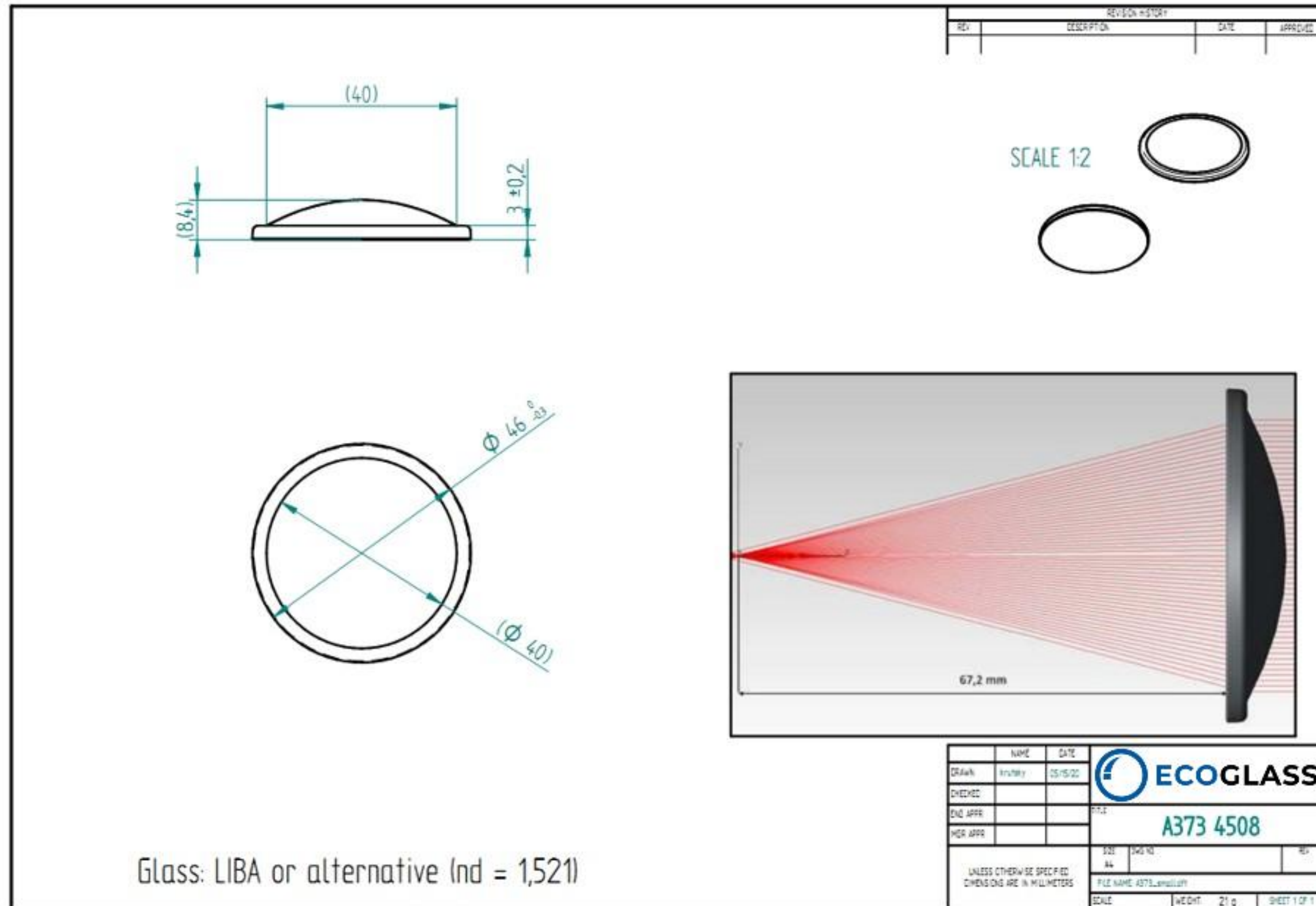


- Projection wall 3x3 m at 1m



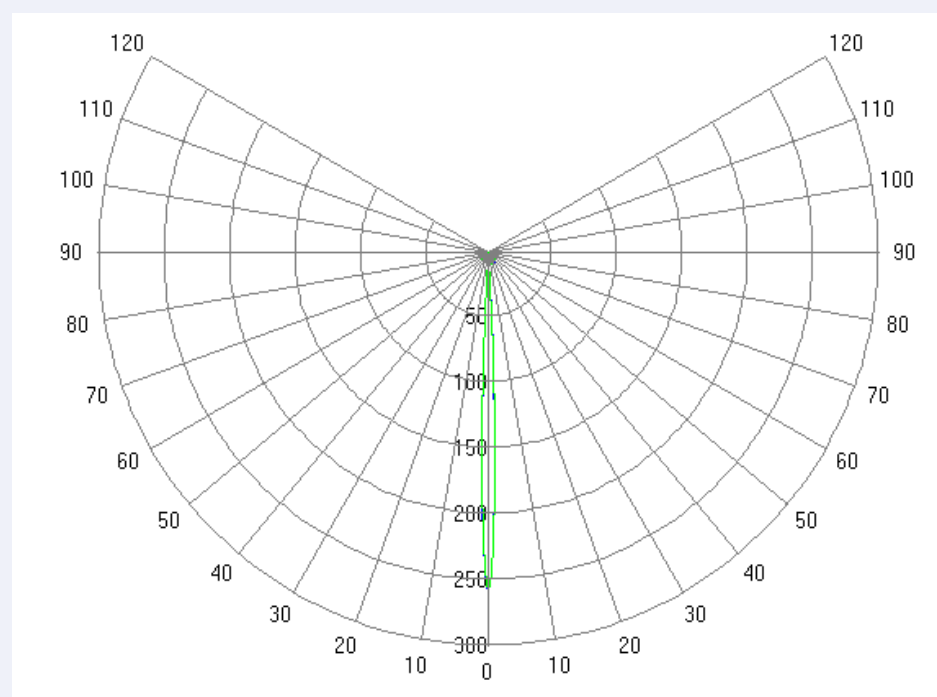
LED used for simulation	Cree XP-G4
Luminous flux of LED [lm]	350
FWHM Co [°]	2
FWHM C180 [°]	2

A373 4508

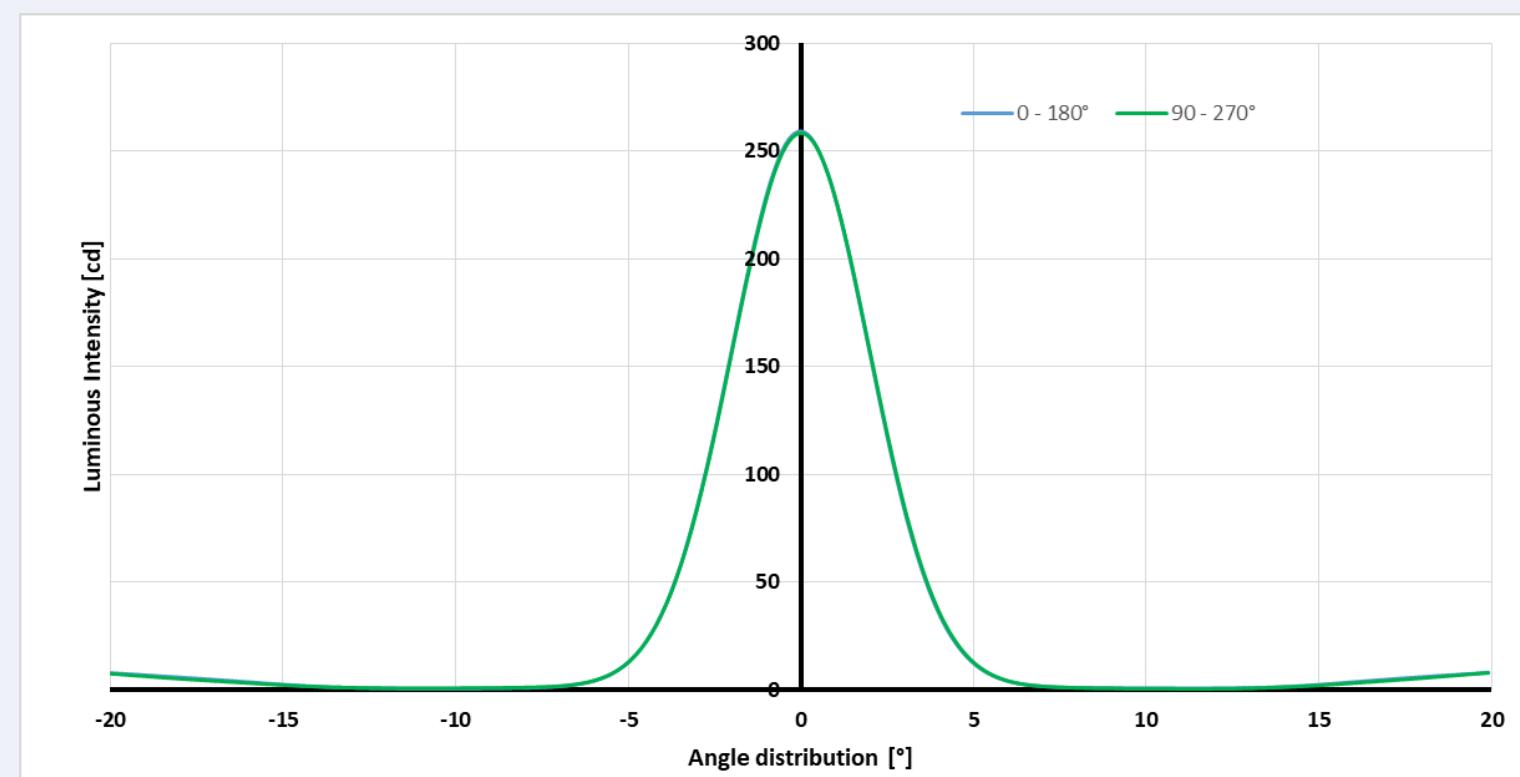


A373 4508 – simulation results

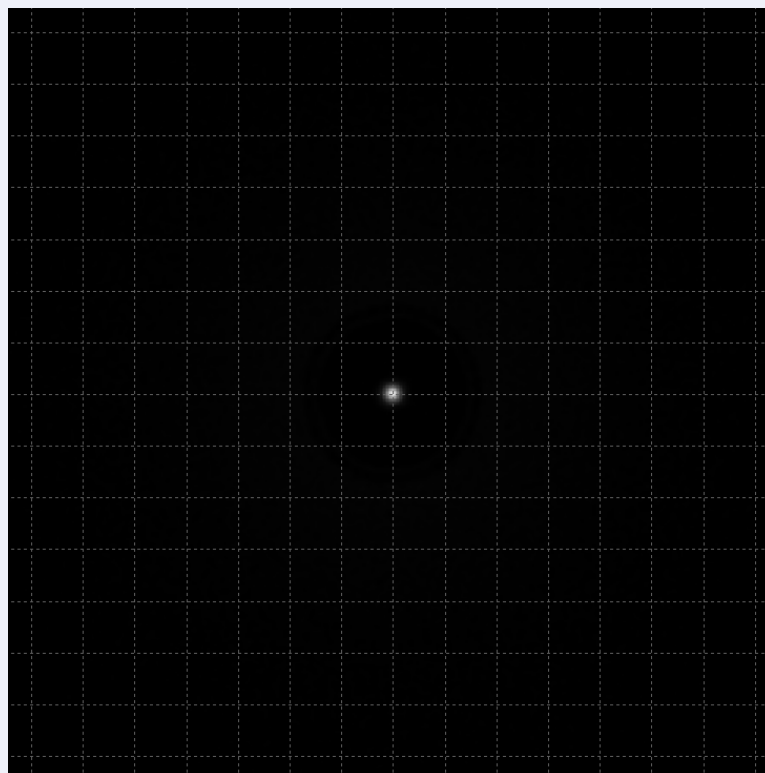
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



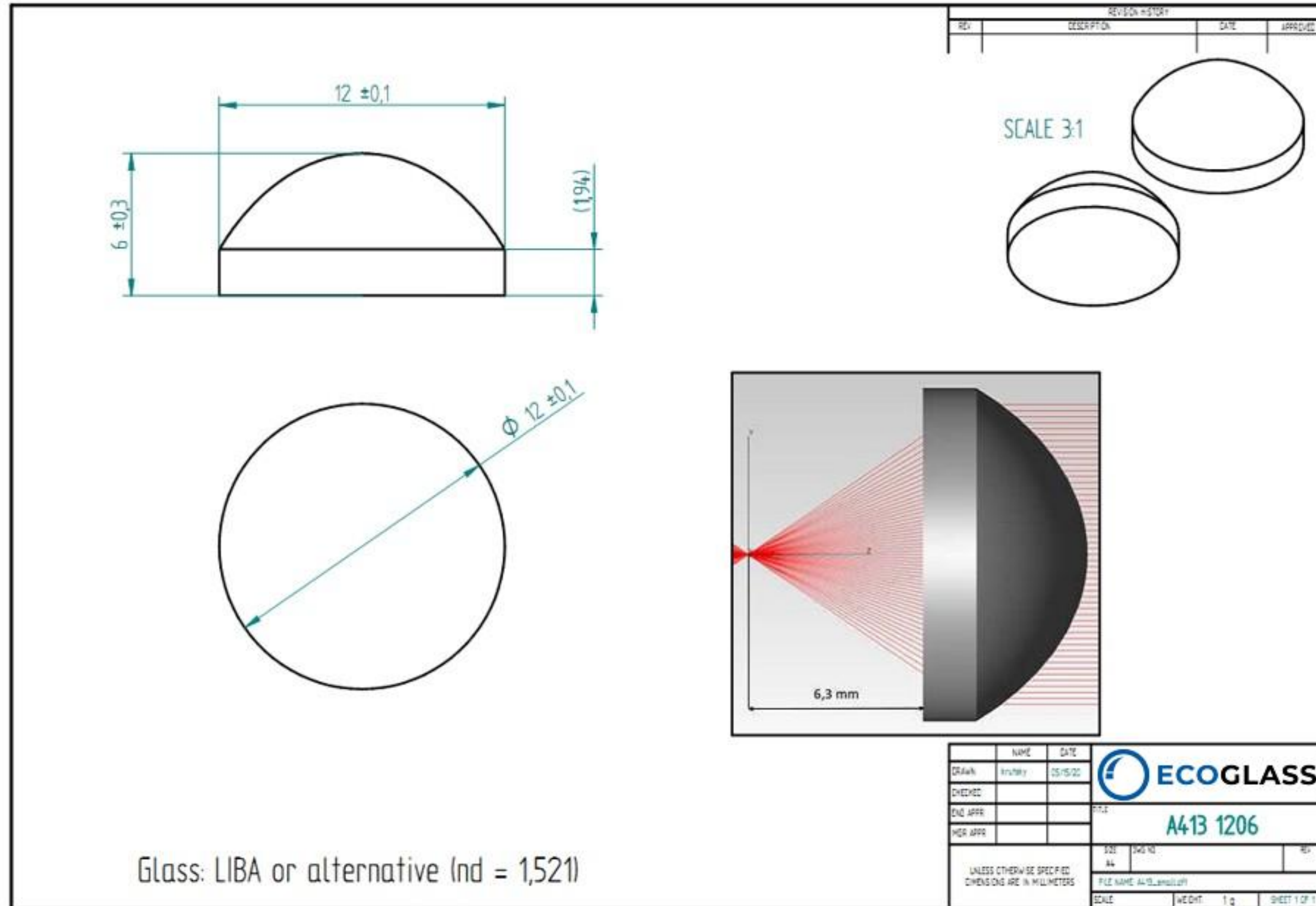
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
FWHM Co [°]	5
FWHM C90 [°]	5

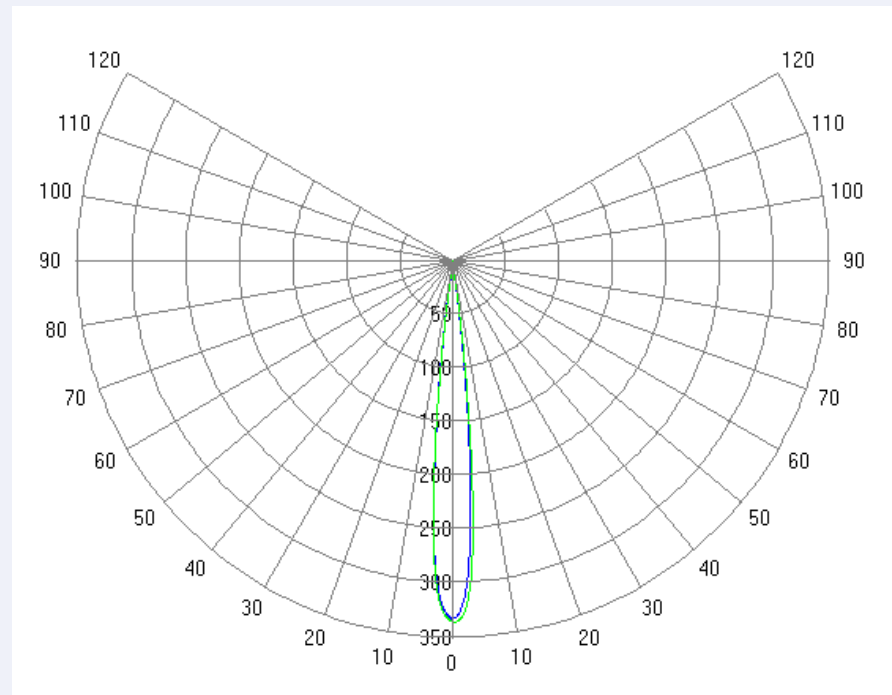
* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A413 1206

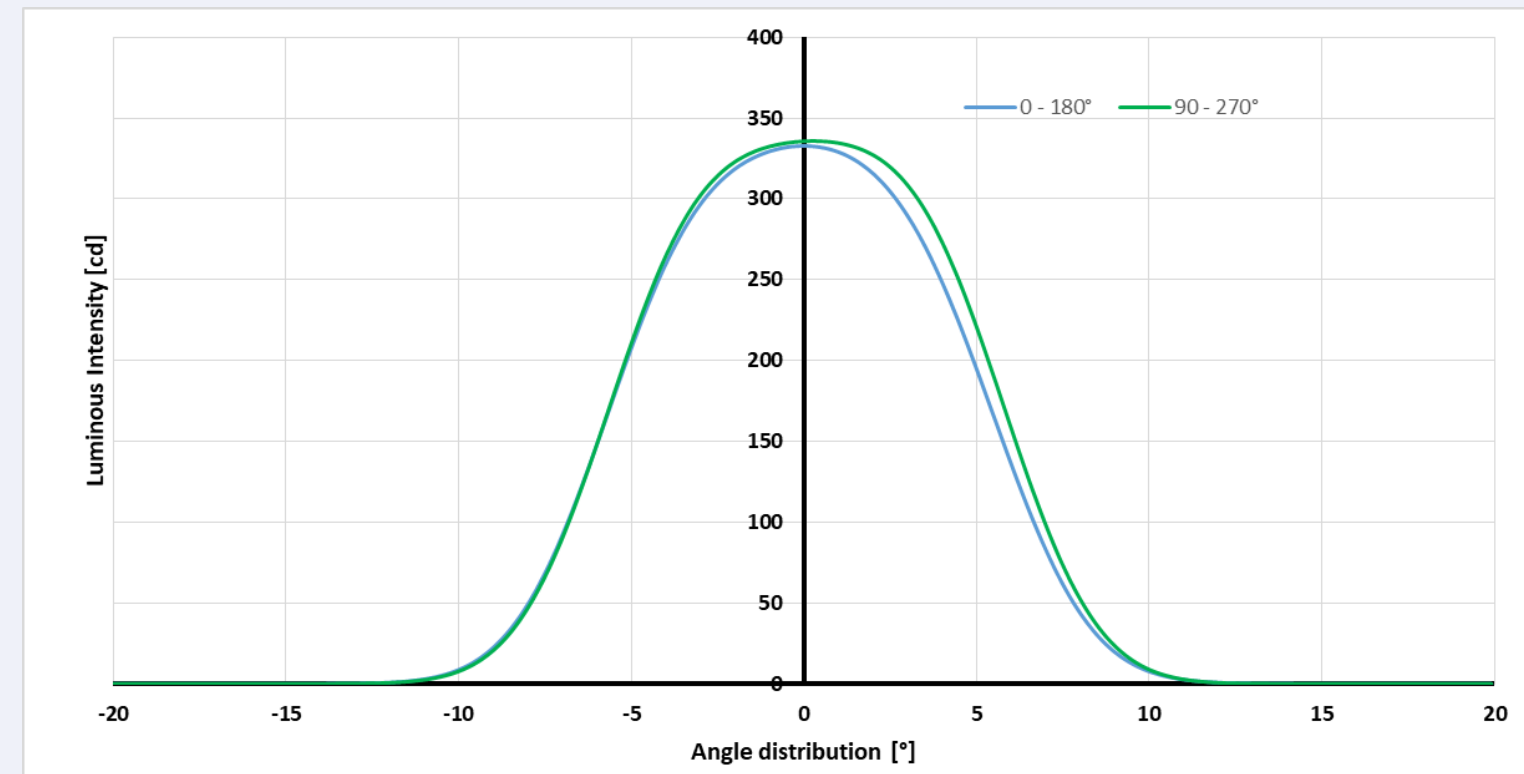


A413 1206 – simulation results

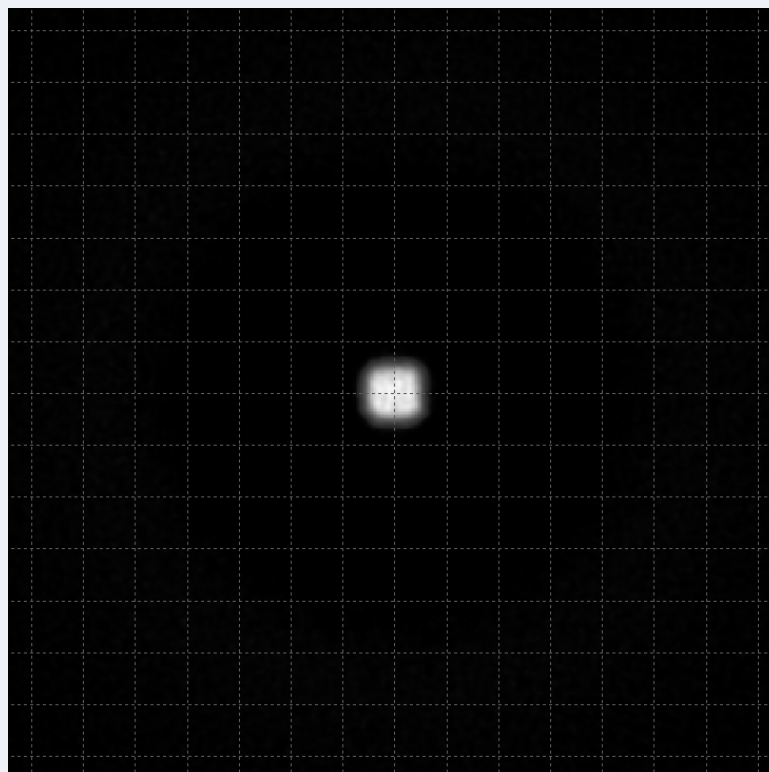
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



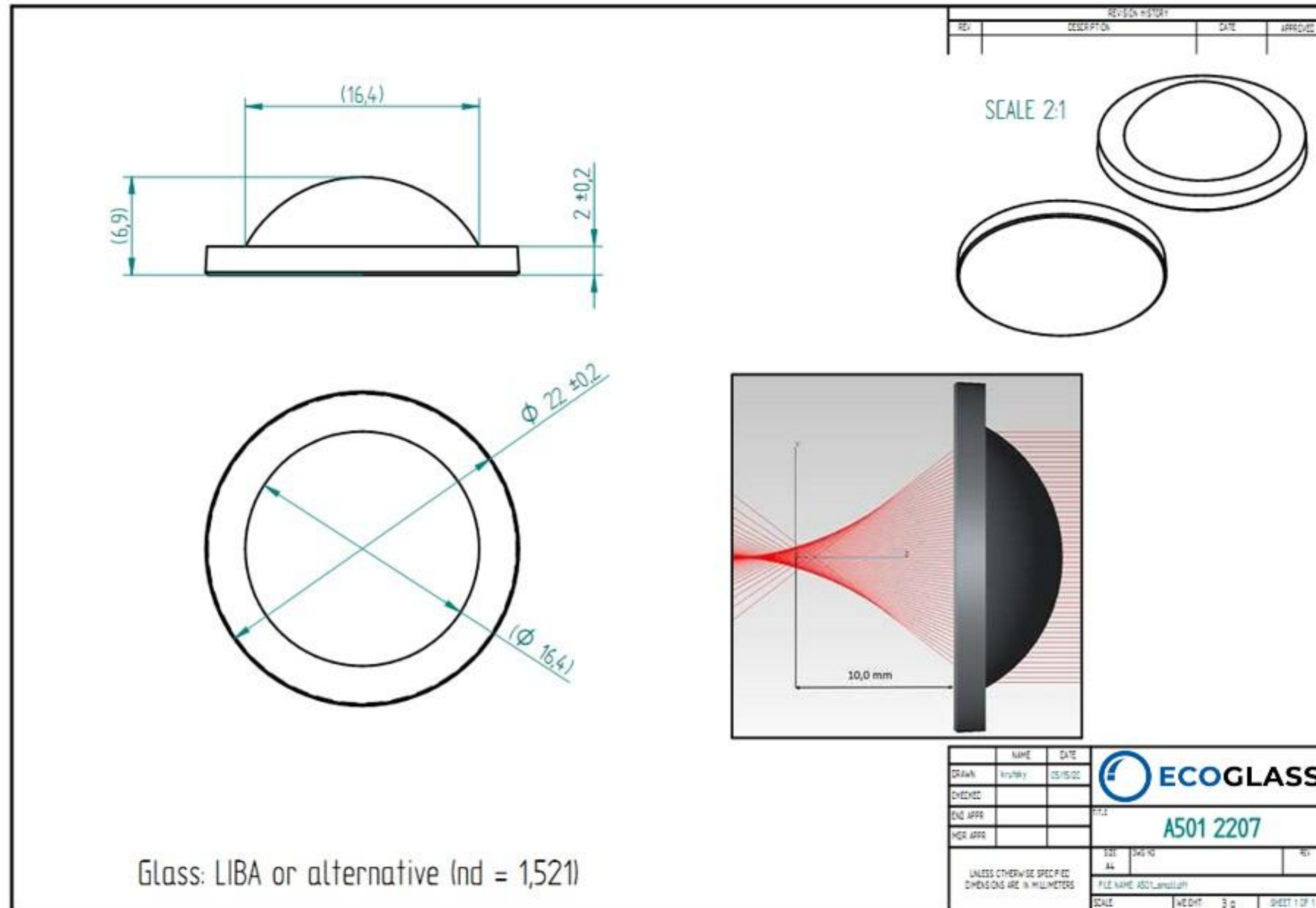
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
FWHM Co [°]	6
FWHM C90 [°]	6

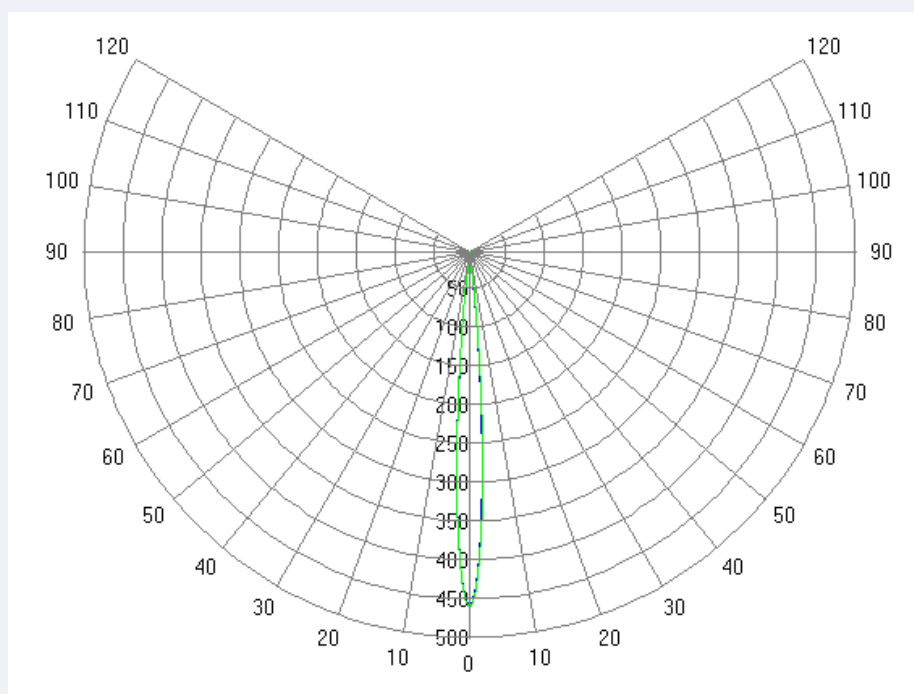
* The ratio between luminous flux on the projection wall (3x3 m at 1m) and luminous flux of LED

A501 2207

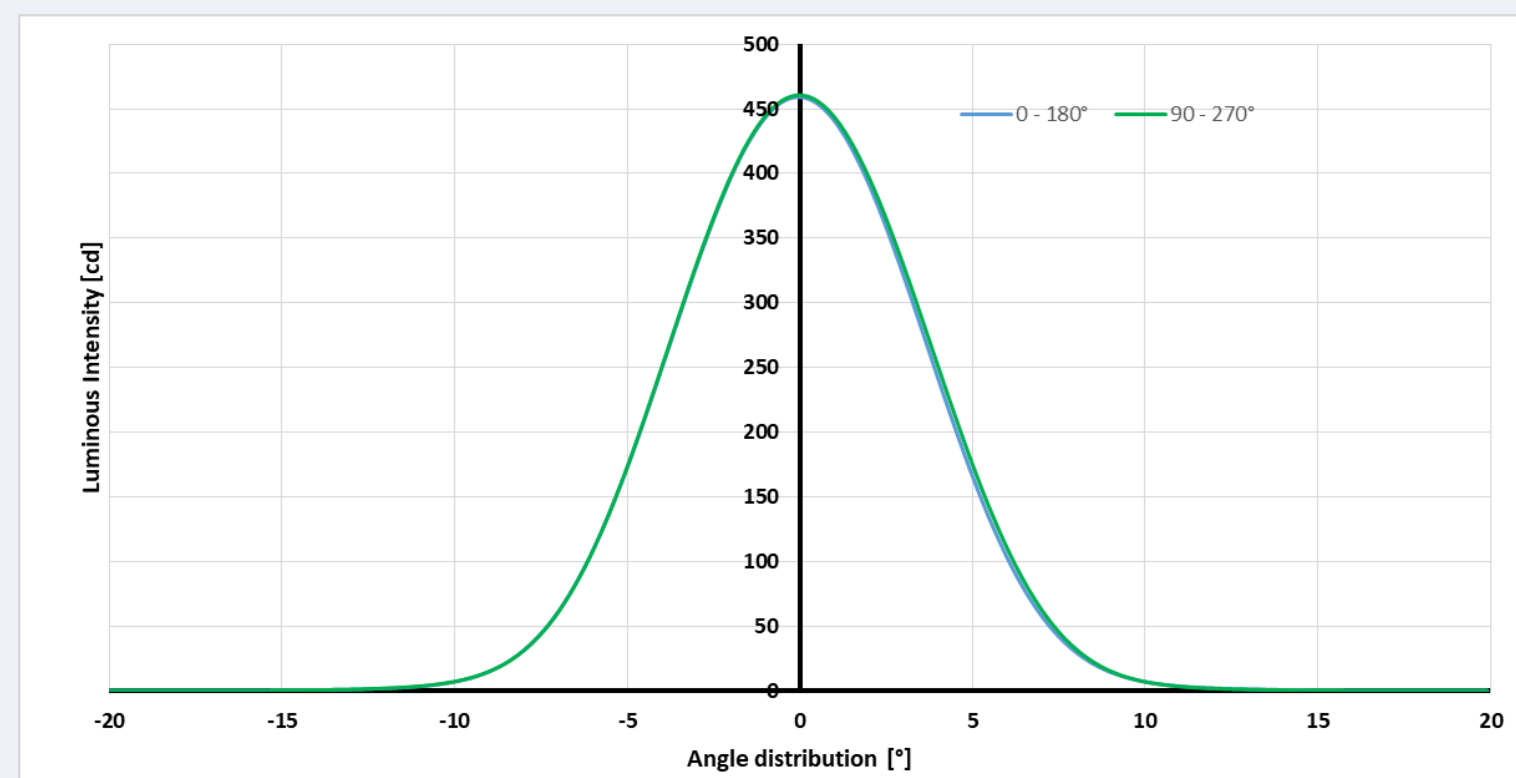


A501 2207 – simulation results

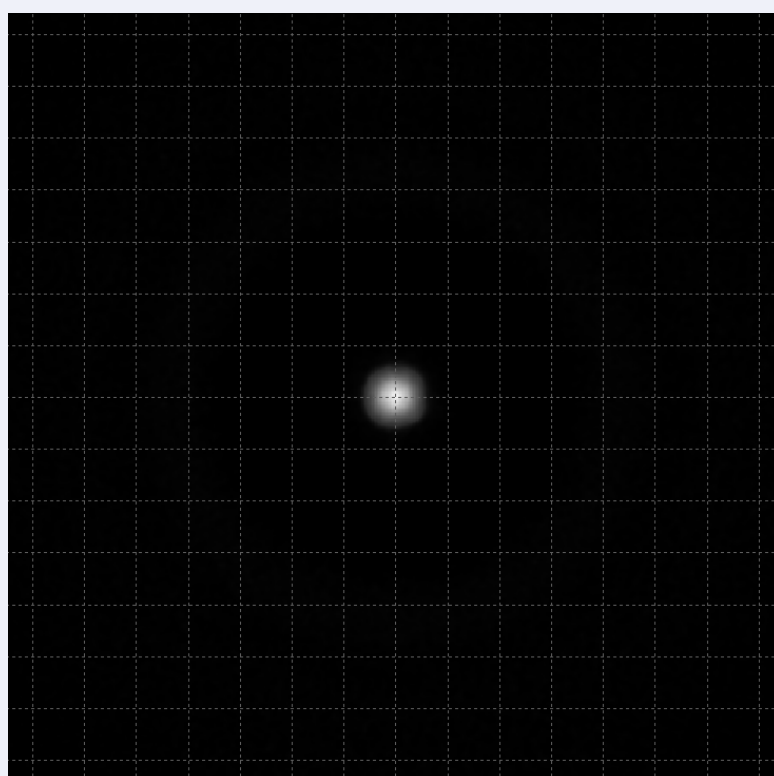
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



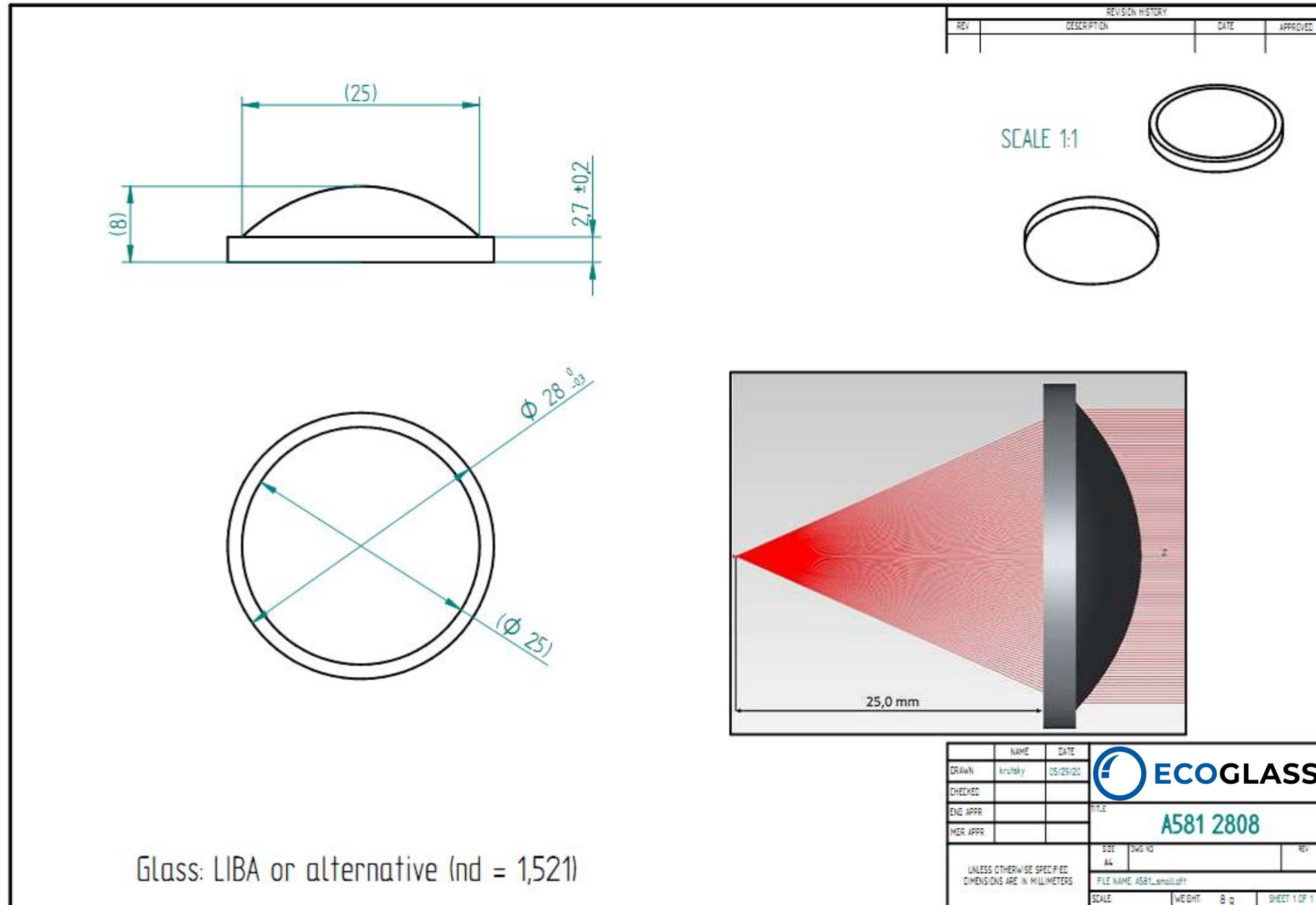
- Projection wall 5x5 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
FWHM Co [°]	8,5
FWHM C90 [°]	8,5

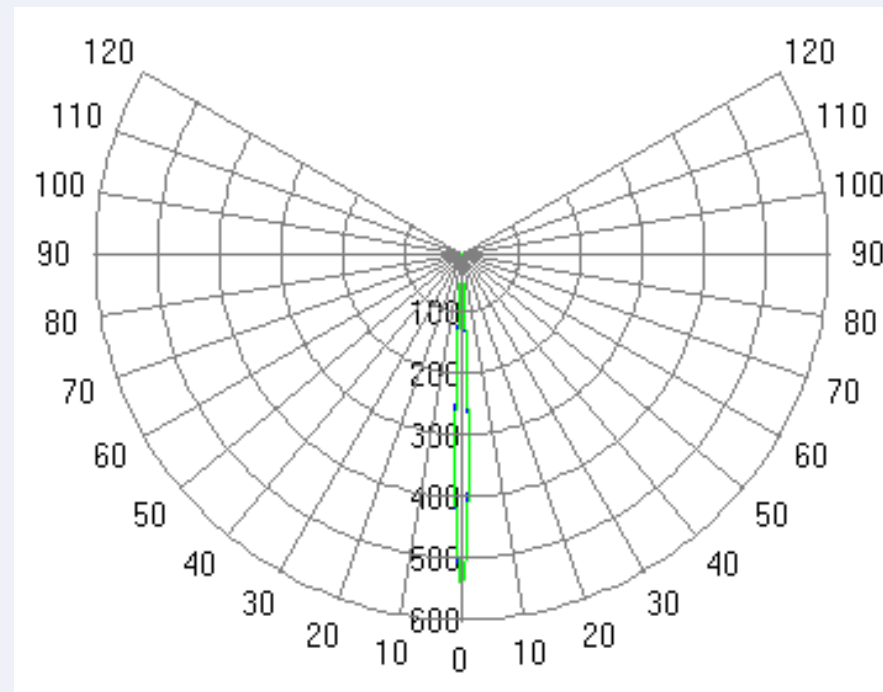
* The ratio between luminous flux on the projection wall (5x5 m at 1 m) and luminous flux of LED

A581 2808

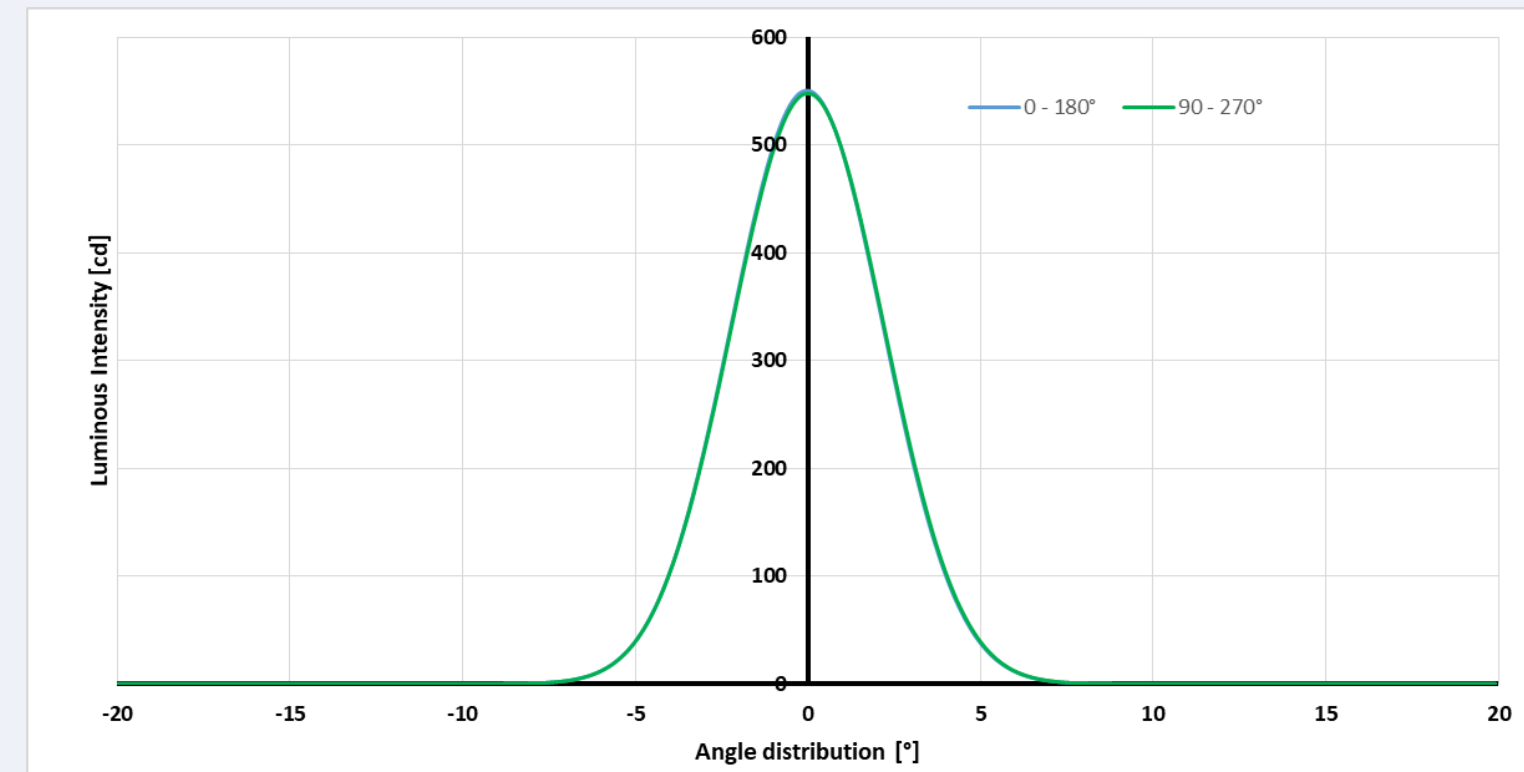


A581 2808 – simulation results

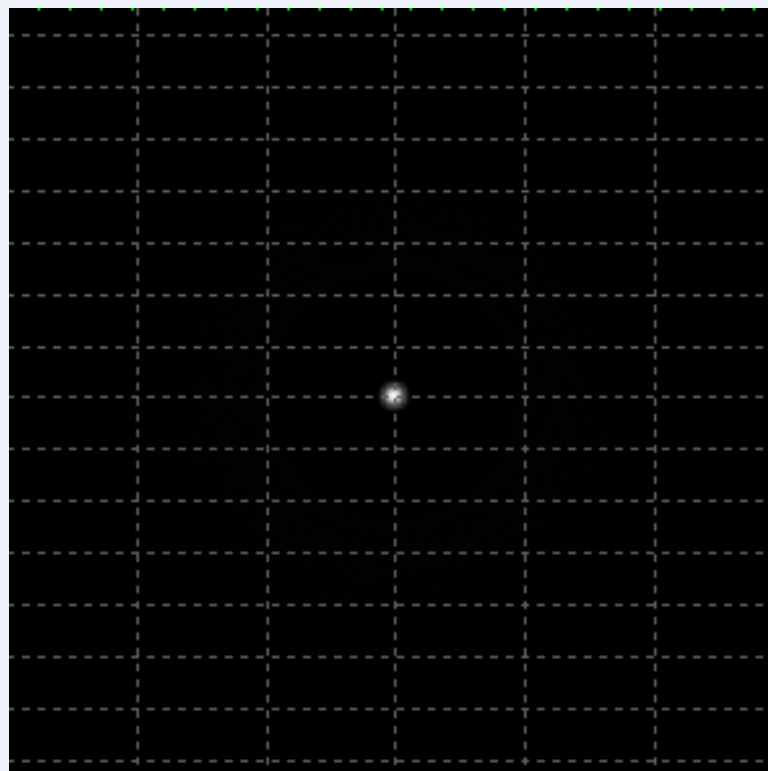
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



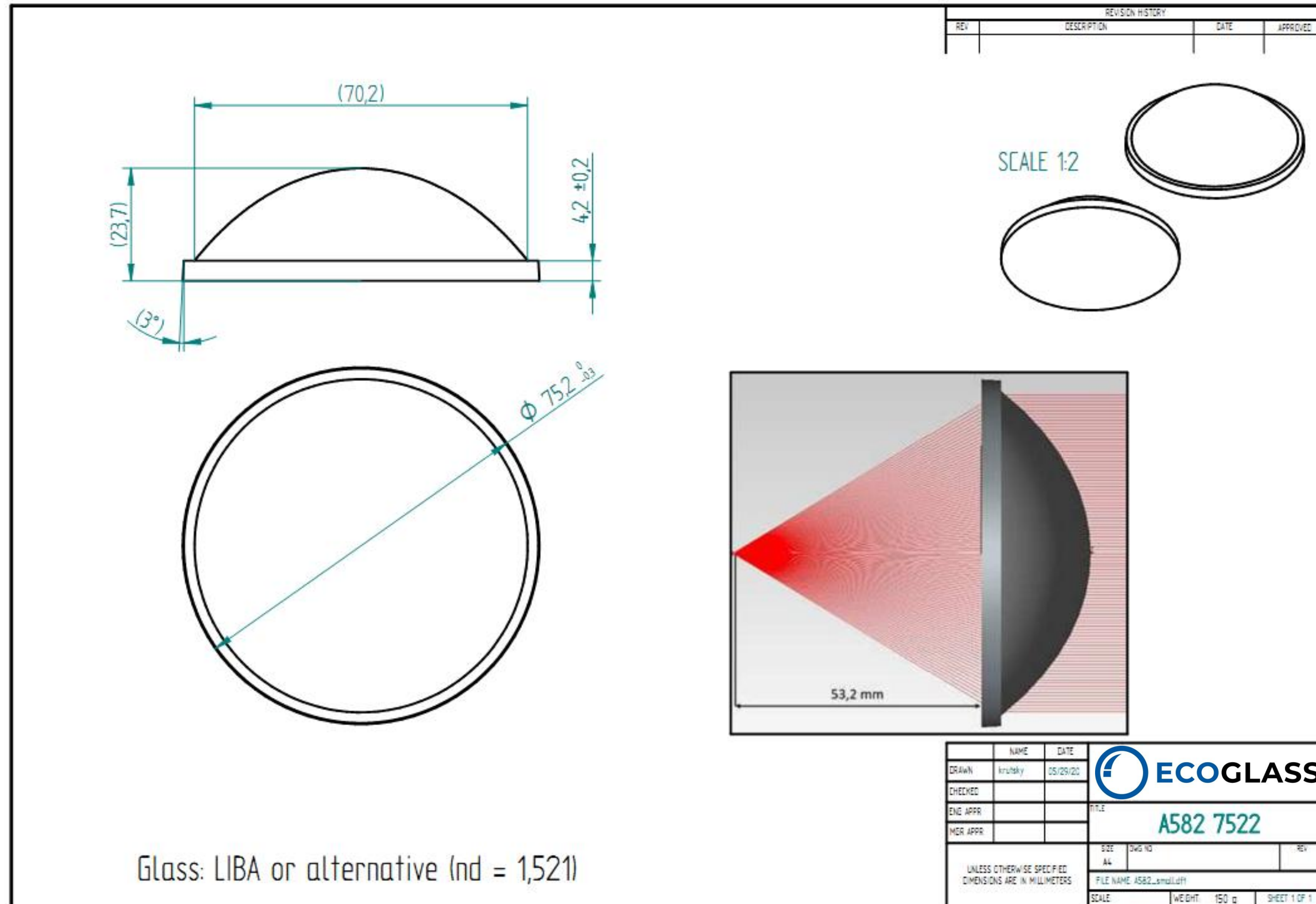
- Projection wall 5x5 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
FWHM Co [°]	5
FWHM C90 [°]	5

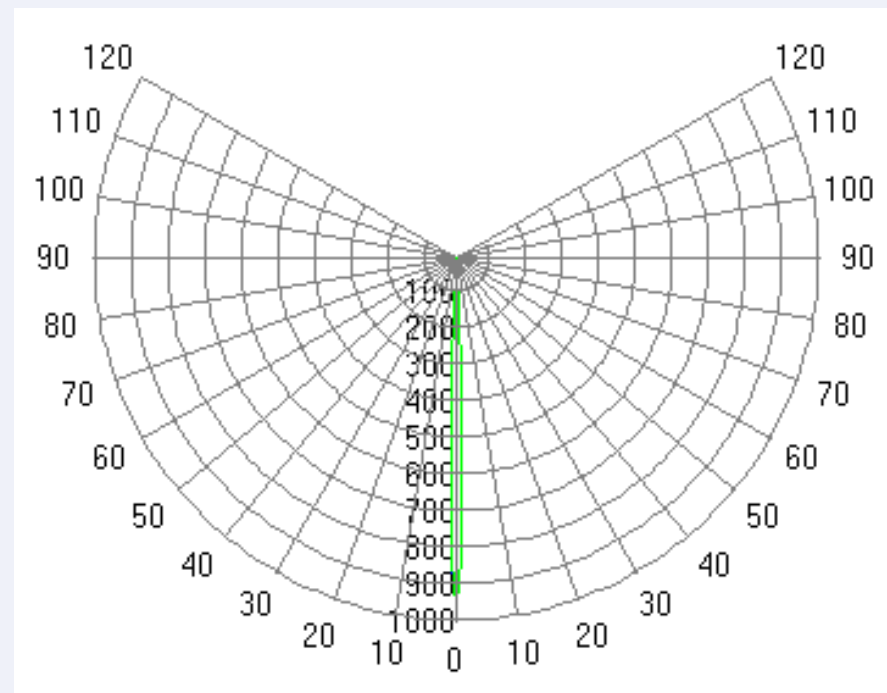
* The ratio between luminous flux on the projection wall (5x5 m at 1 m) and luminous flux of LED

A582 7522

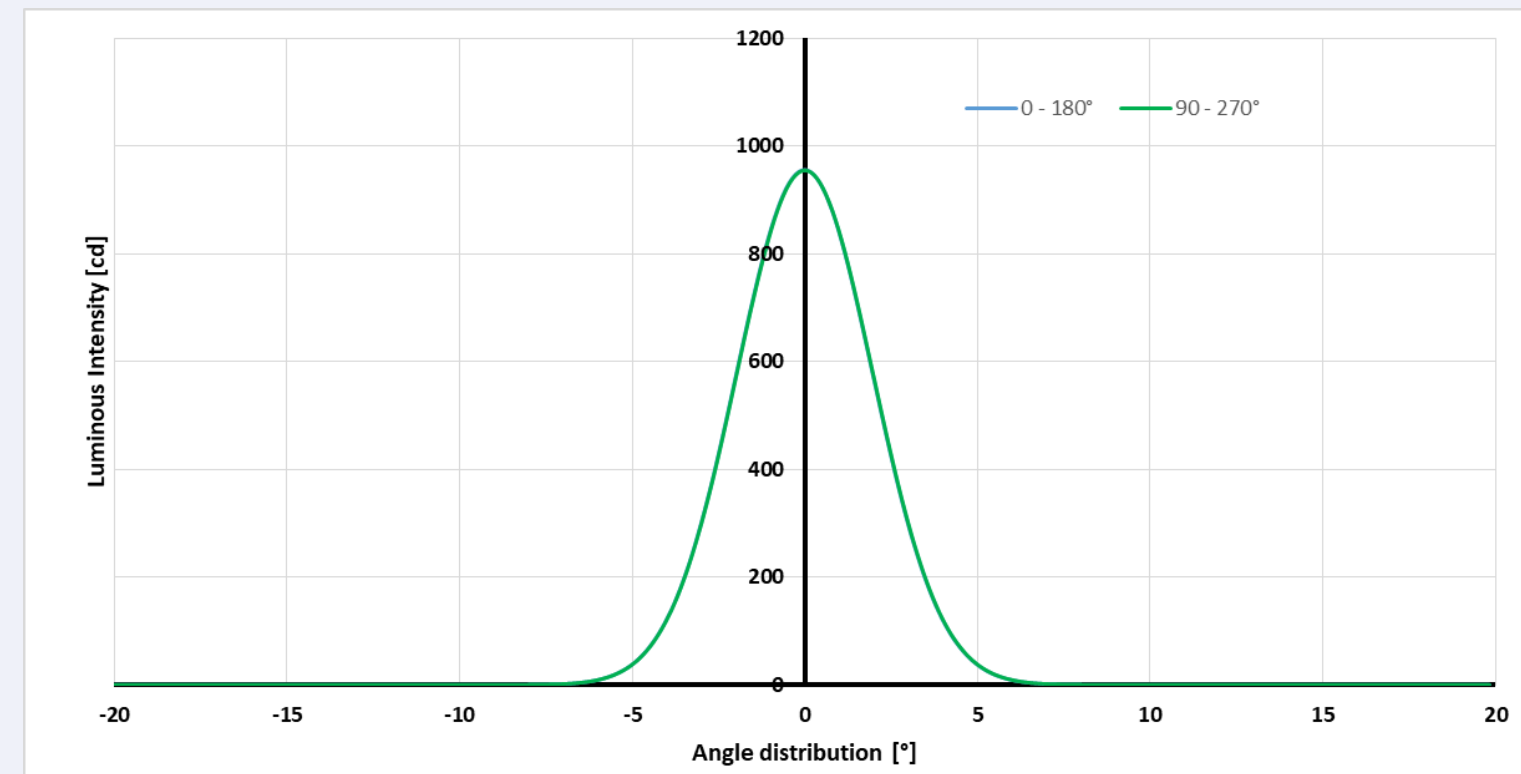


A582 7522 – simulation results

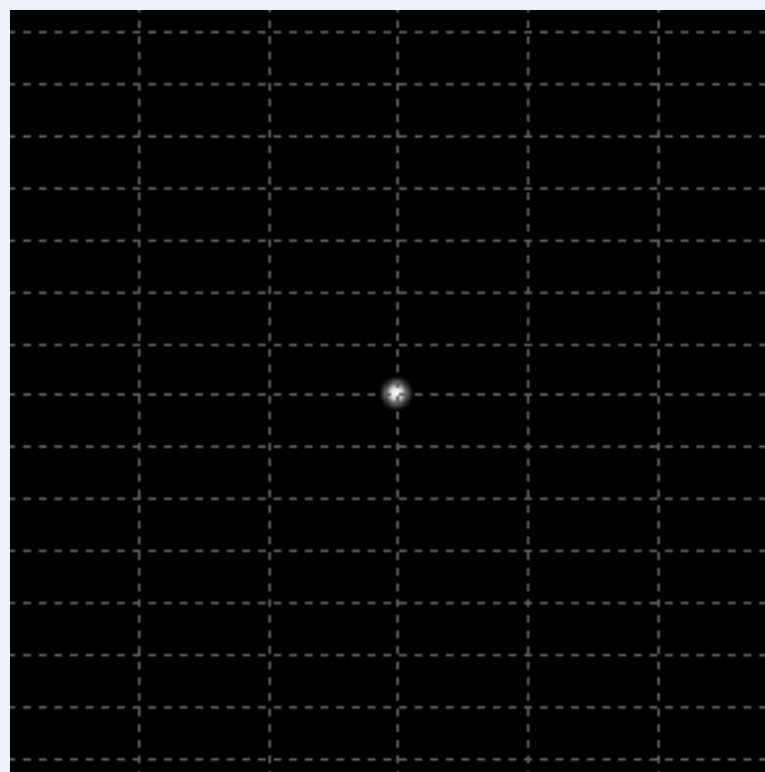
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot

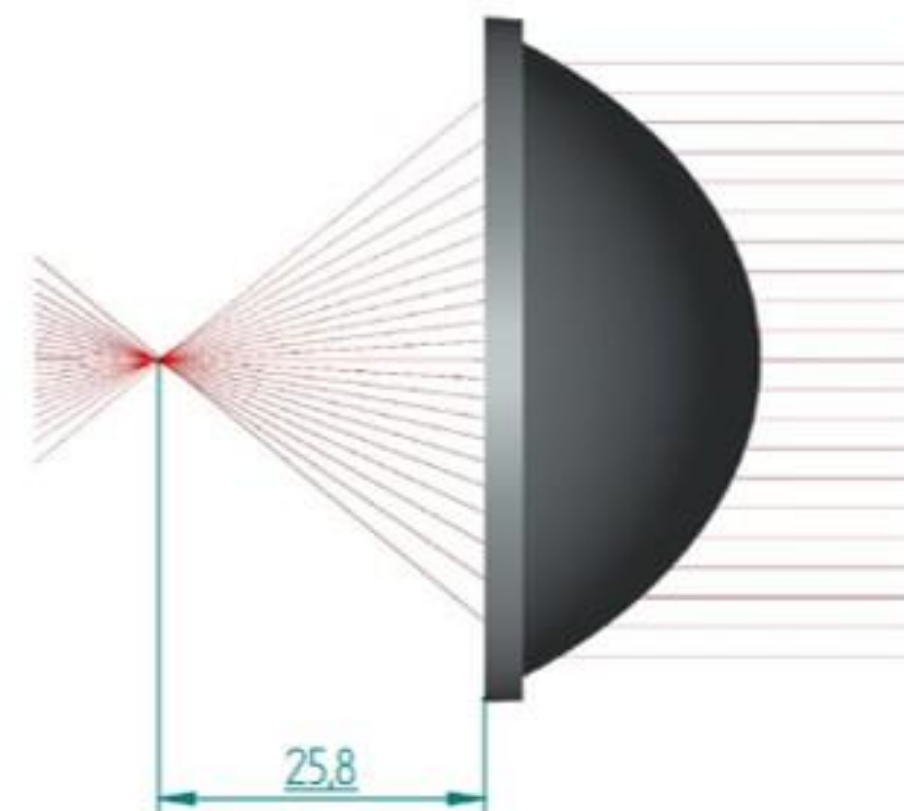
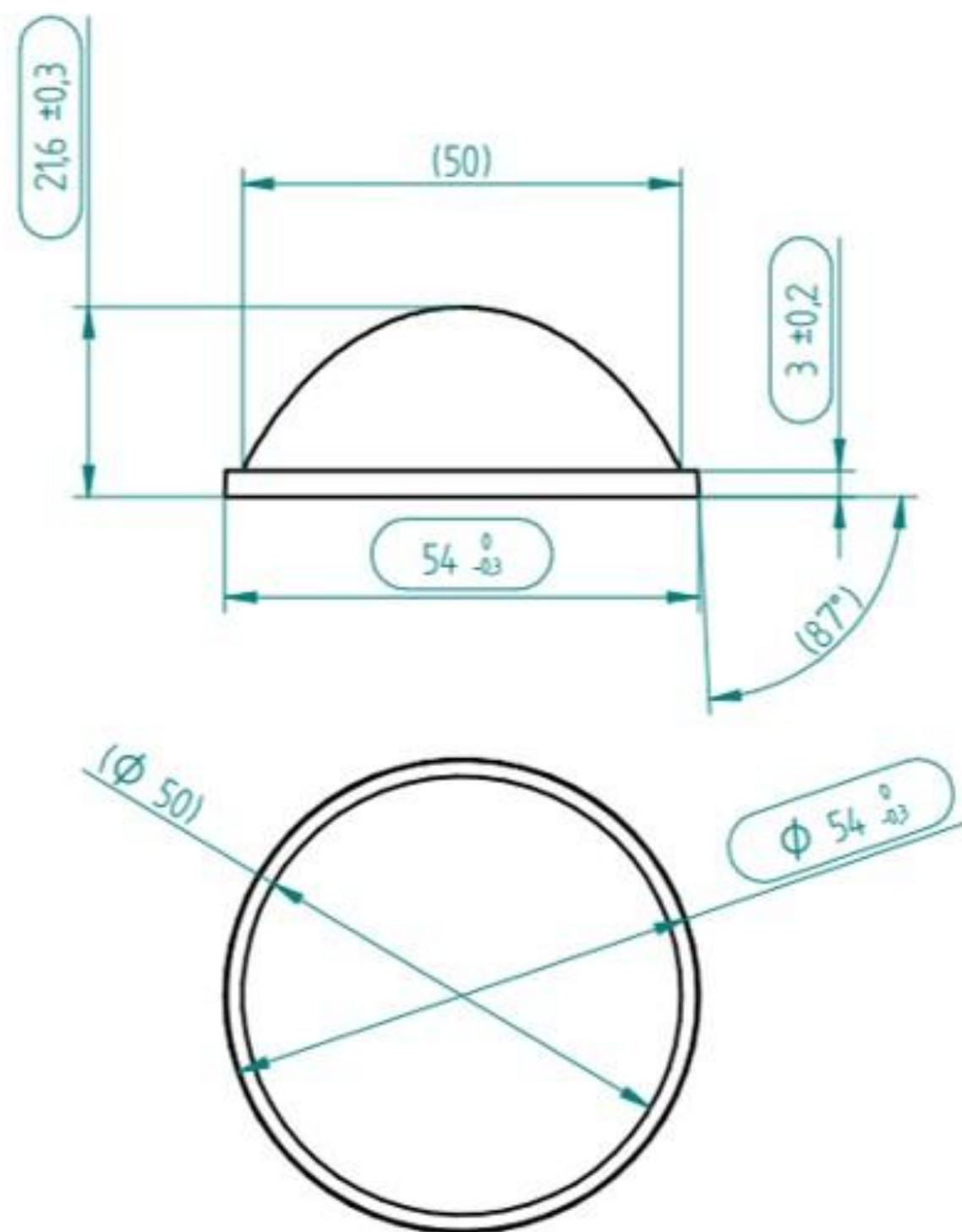


- Projection wall 5x5 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
FWHM Co [°]	5
FWHM C90 [°]	5

* The ratio between luminous flux on the projection wall (5x5 m at 1 m) and luminous flux of LED

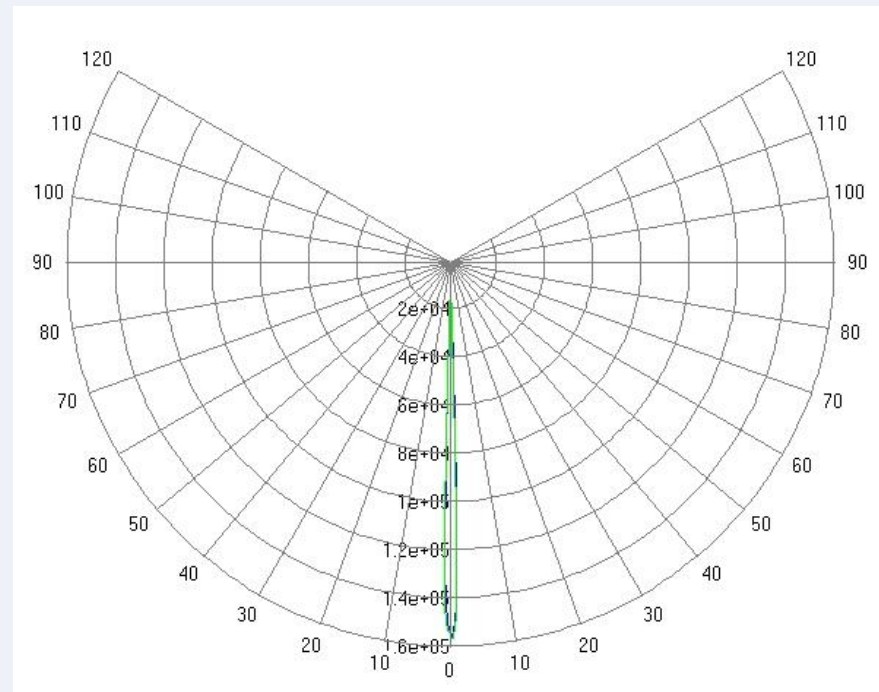


material : GLASS $n_d = 1.520$

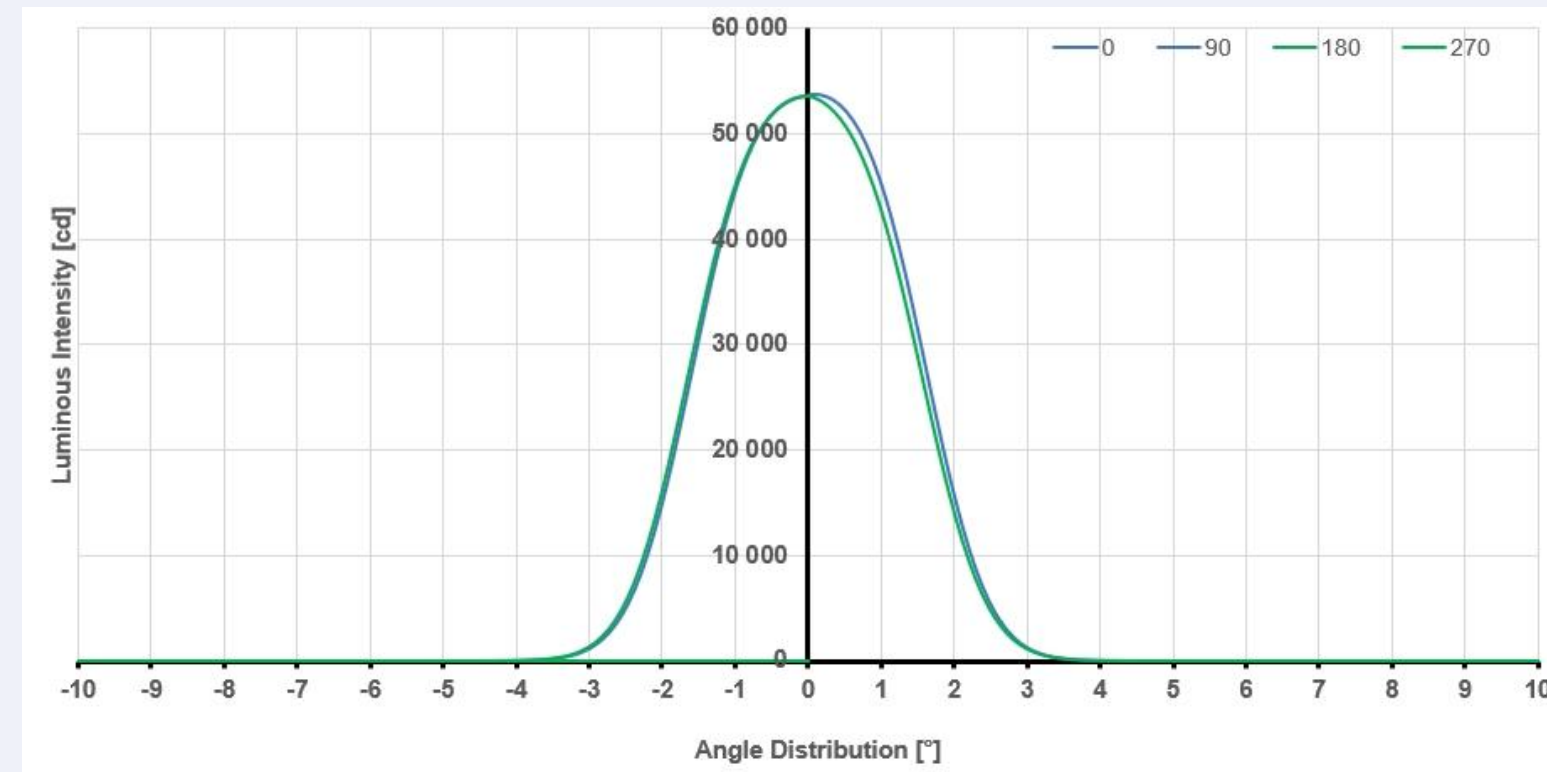
	NAME	DATE		
DRAWN	jkocarek	10/20/23		
CHECKED			TITLE	
ENG APPR				
MGR APPR			aspheric lens	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES ±XX° 2 PL ±XXX 3 PL ±XXXX			SIZE	DWG NO
			A4	A636 5422
			FILE NAME:	A636 5422.dft
			SCALE:	WEIGHT:
			SHEET 1 OF 1	

A636 5422 – simulation results

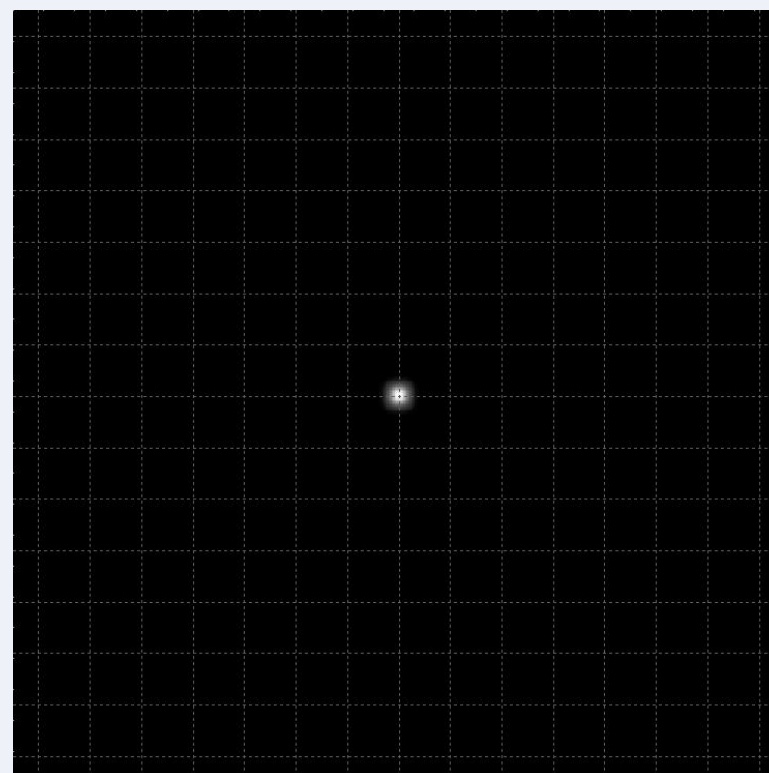
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



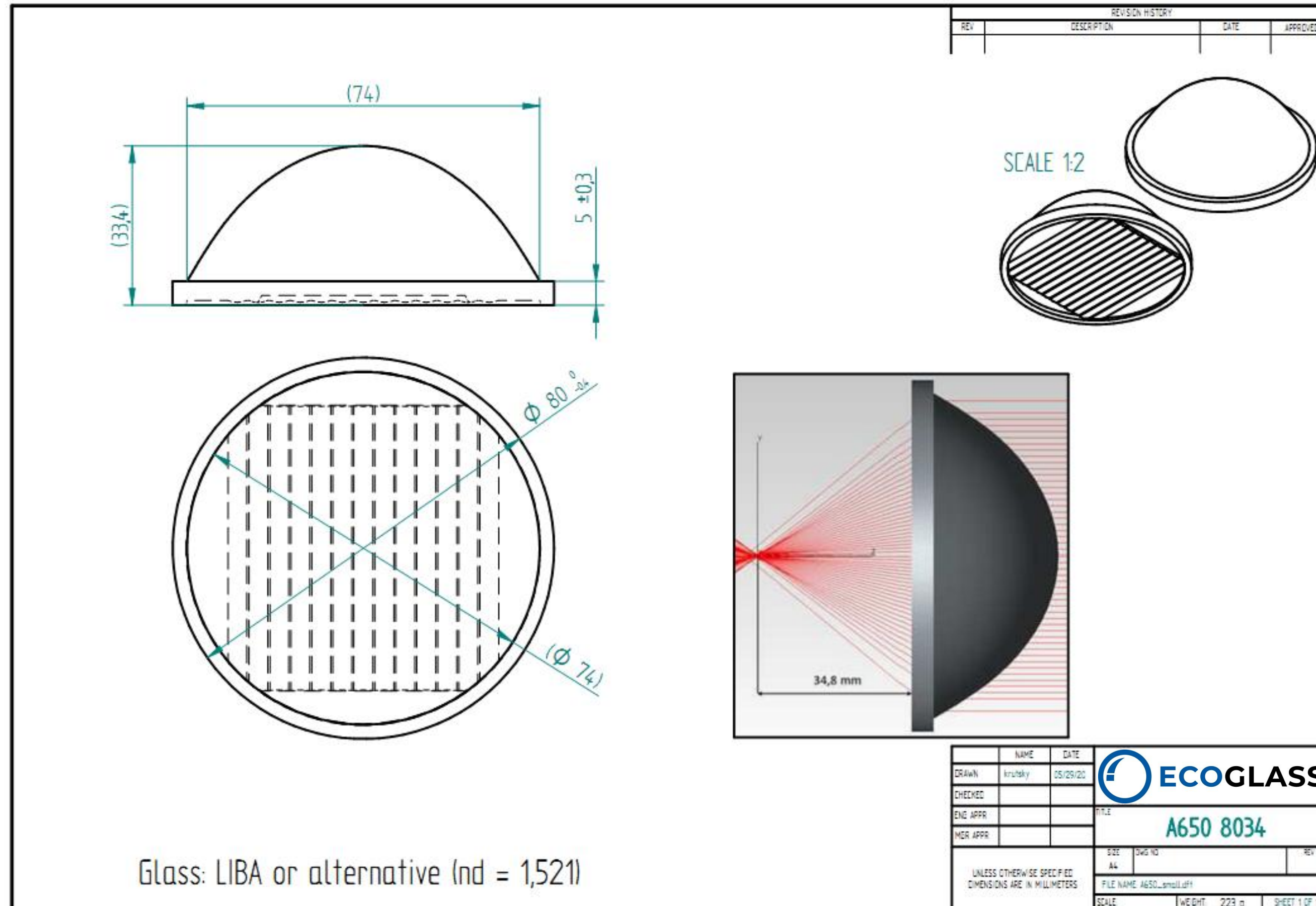
- Projection wall 3x3 m at 1m



LED used for simulation	XP-G4
Luminous flux of LED [lm]	357
FWHM Co [°]	3
FWHM C90 [°]	3

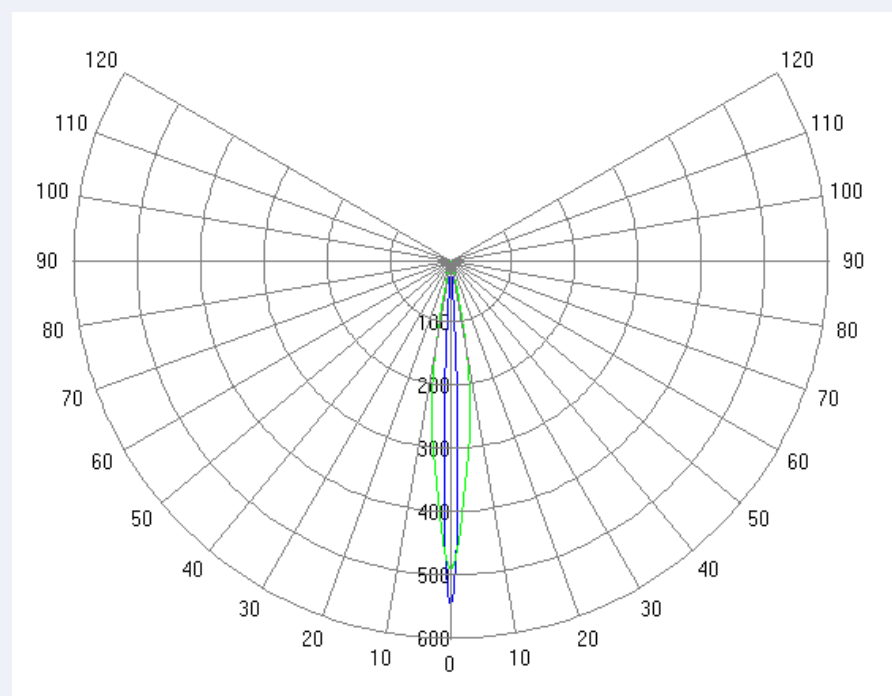
* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A650 8034

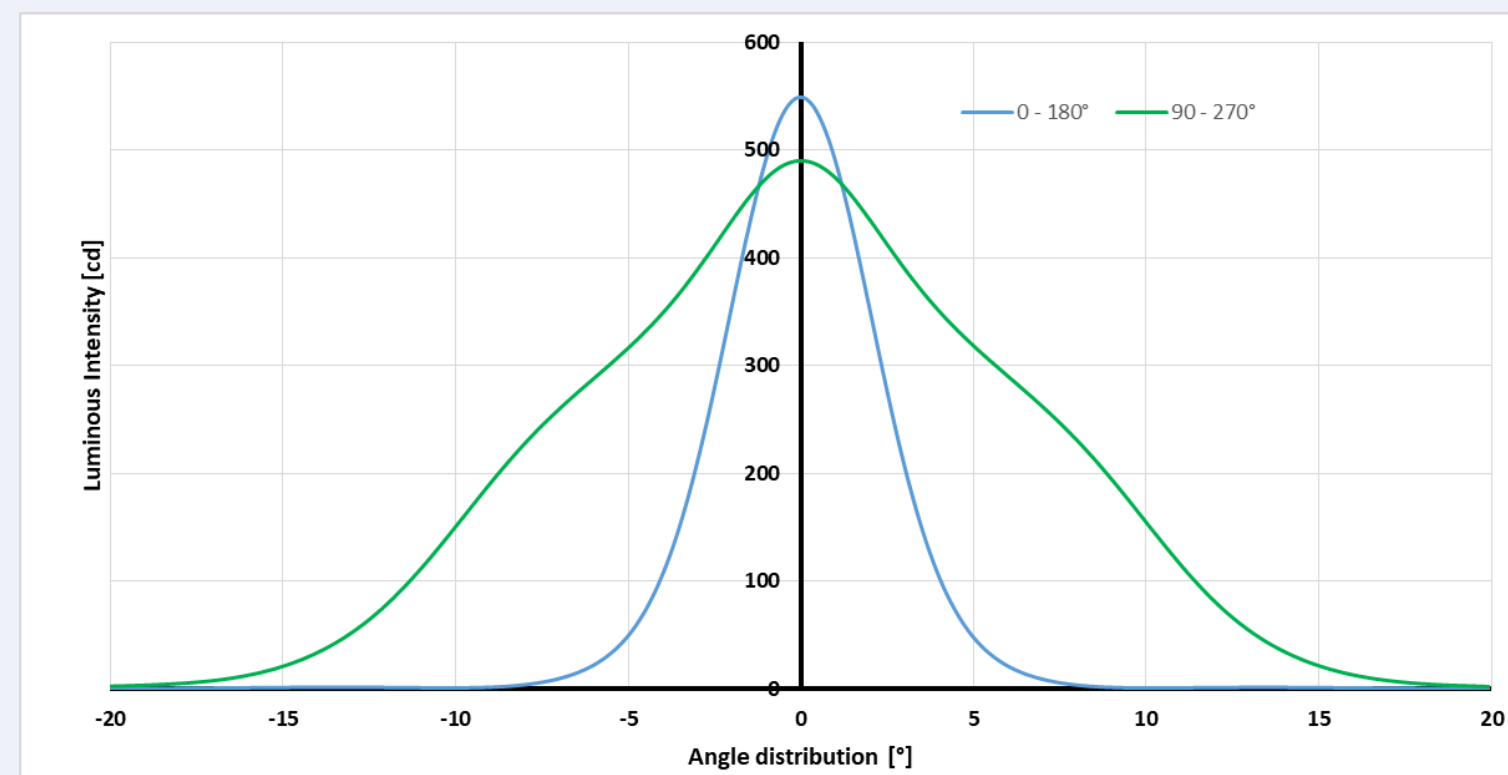


A650 8034 – simulation results

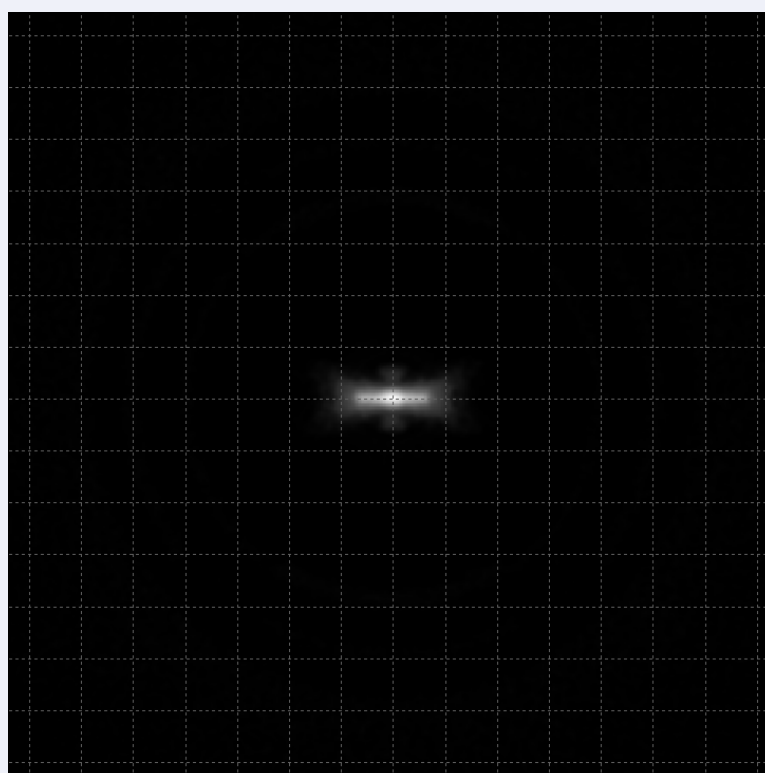
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



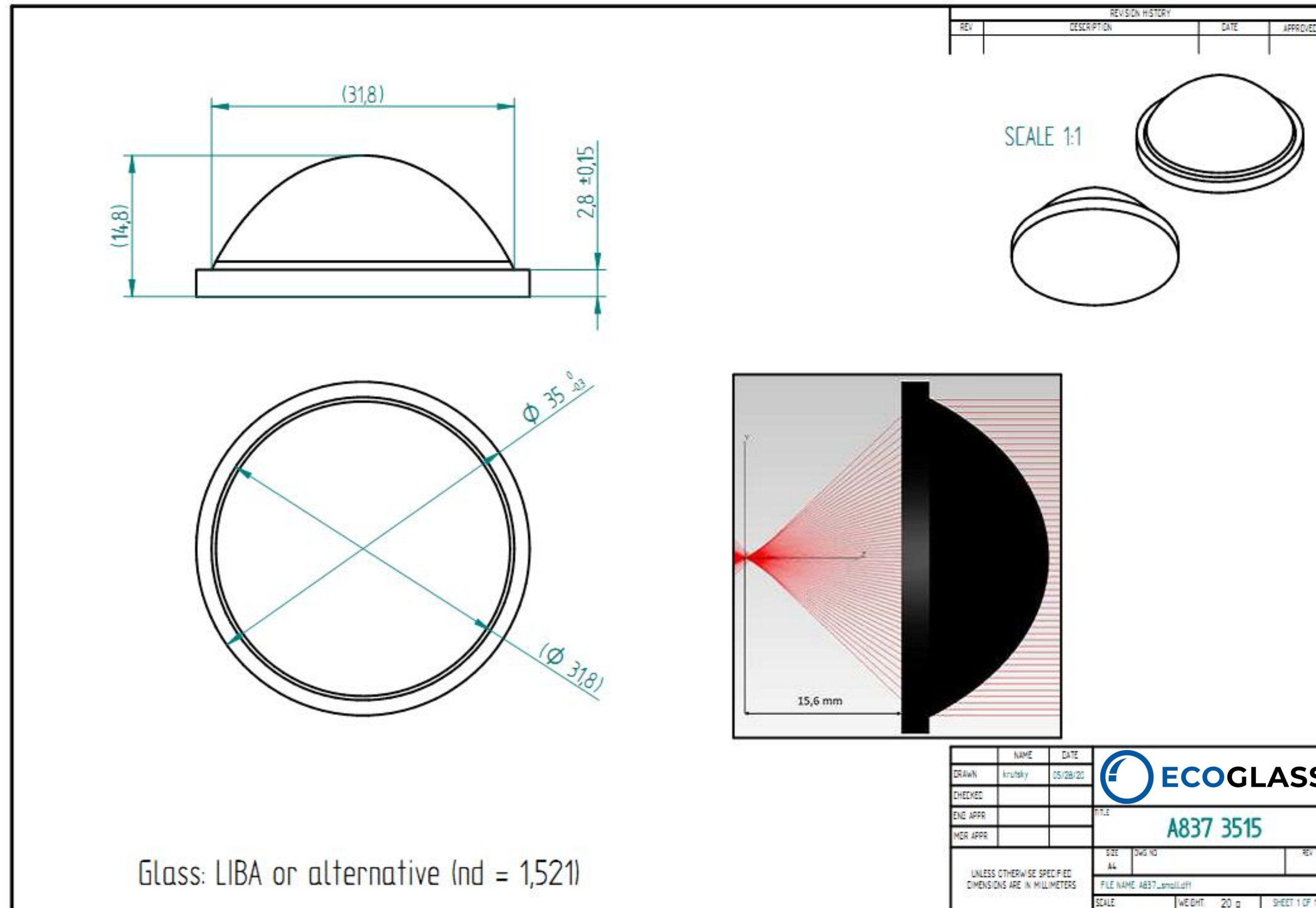
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
FWHM Co [°]	5
FWHM C90 [°]	15

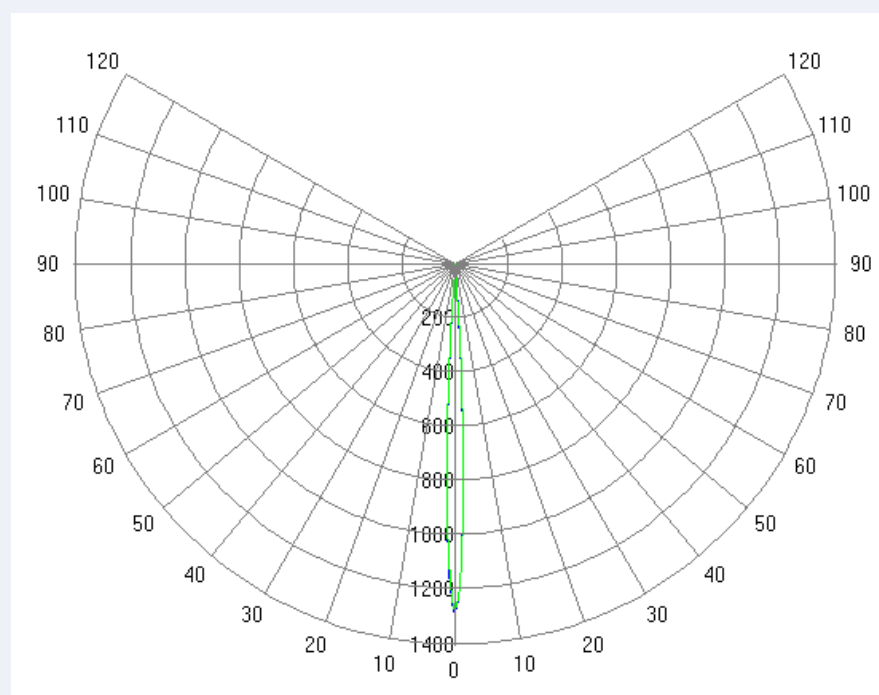
* The ratio between luminous flux on the projection wall (3x3 m at 1m) and luminous flux of LED

A837 3515

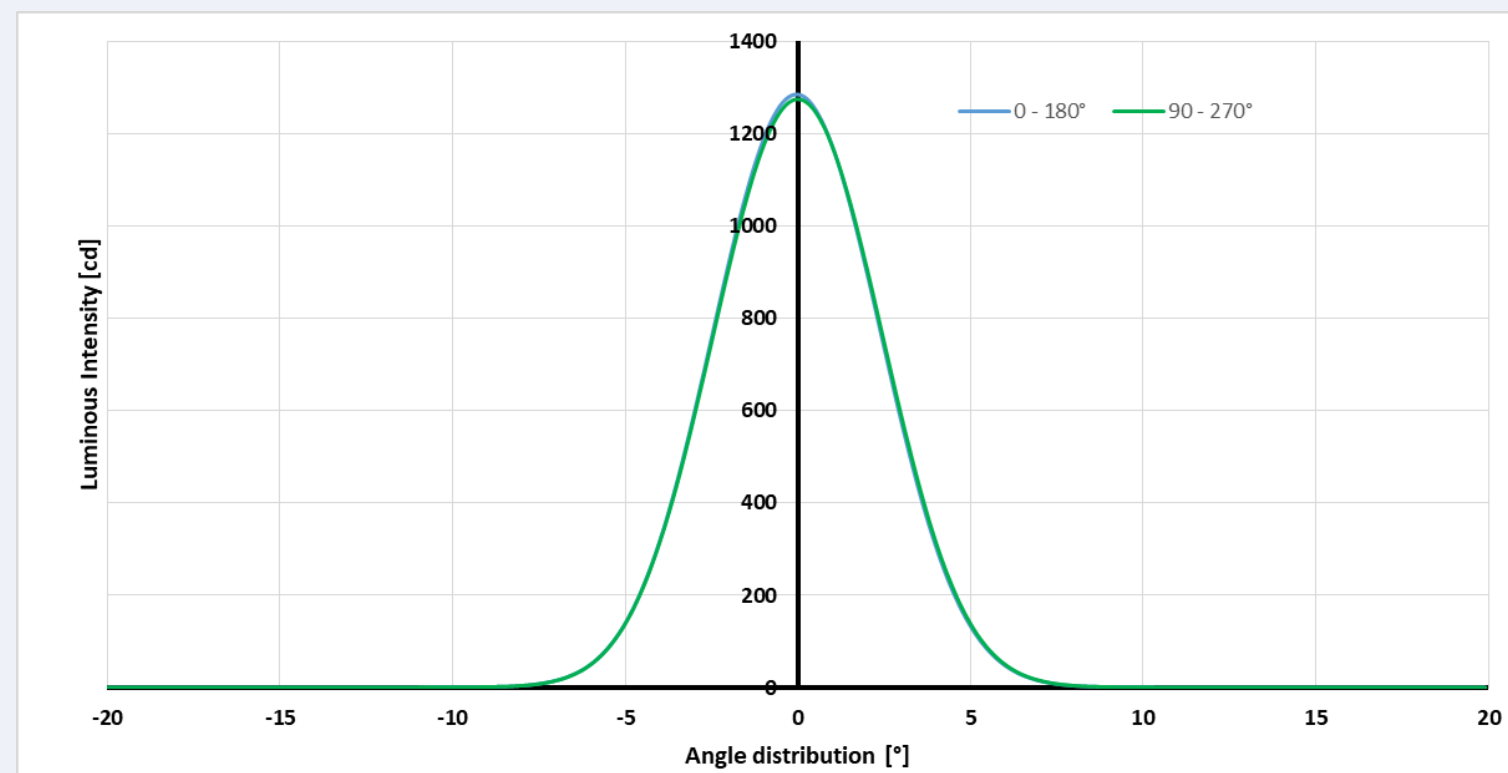


A837 3515 – simulation results

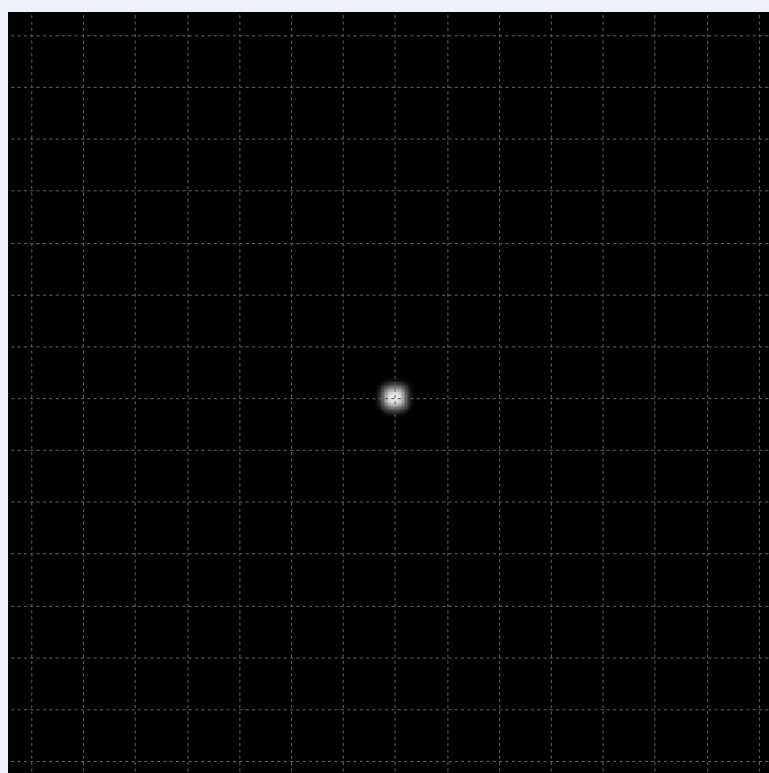
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



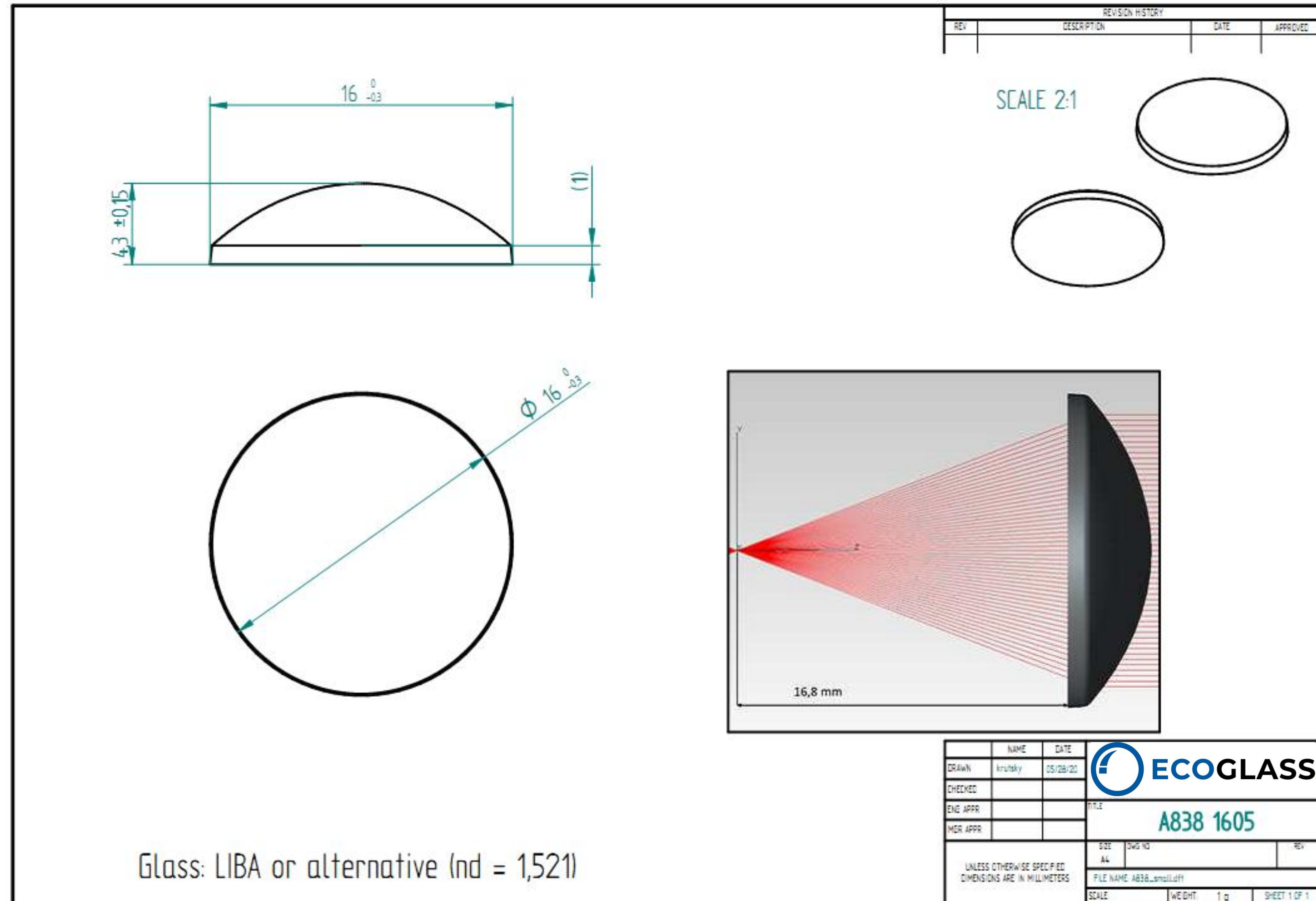
- Projection wall 5x5 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
FWHM Co [°]	6
FWHM C90 [°]	6

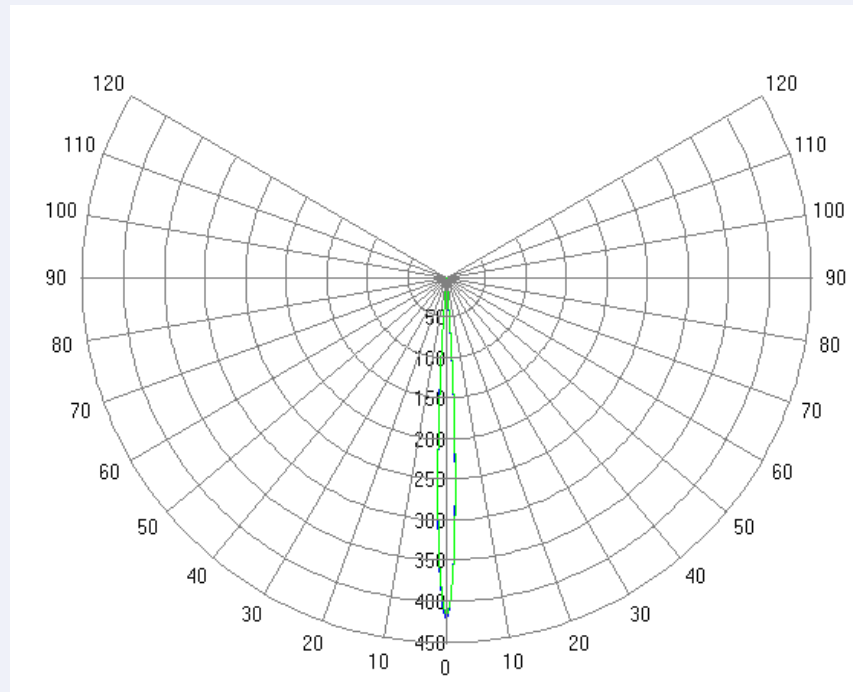
* The ratio between luminous flux on the projection wall (5x5 m at 1 m) and luminous flux of LED

A838 1605

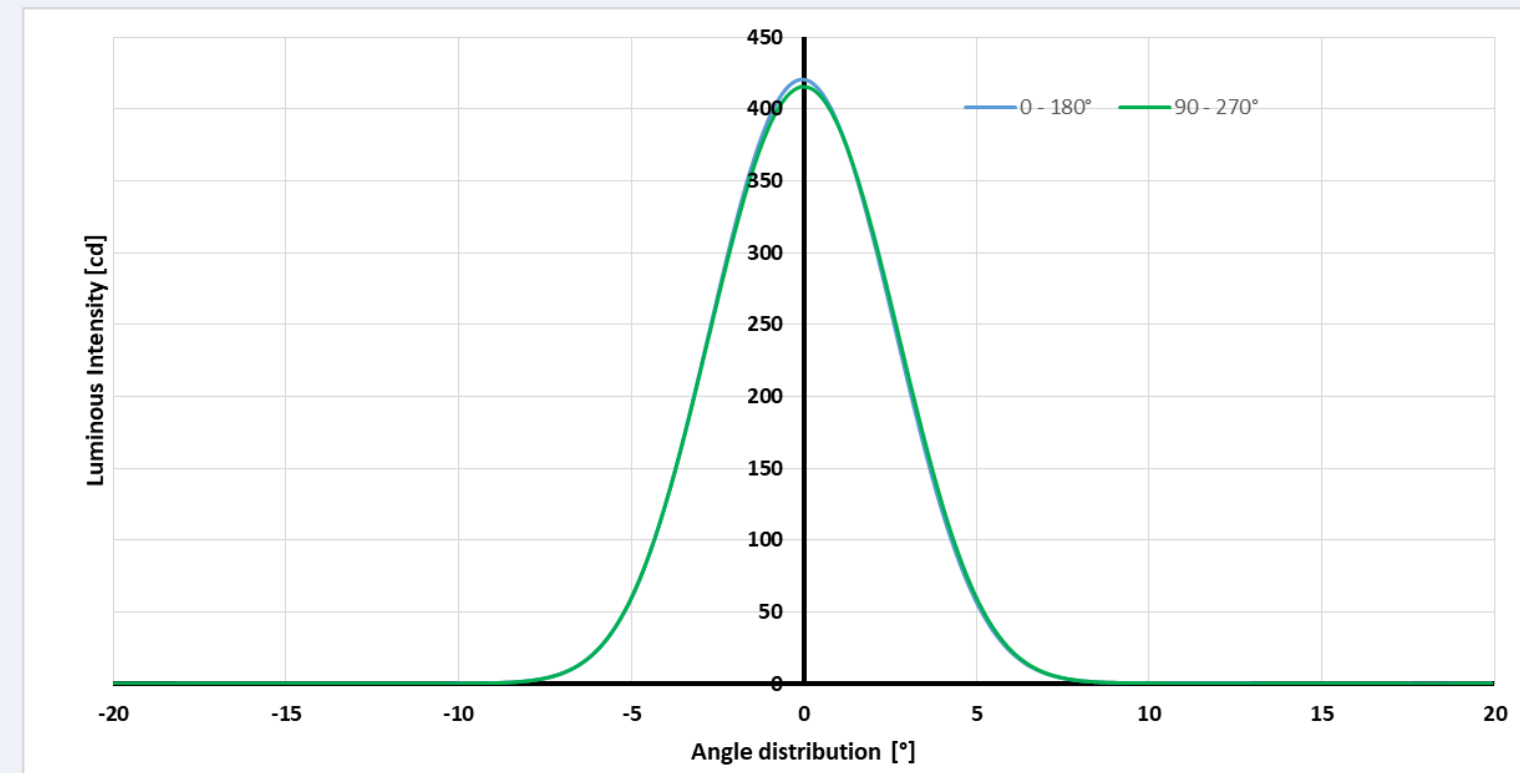


A838 1605 – simulation results

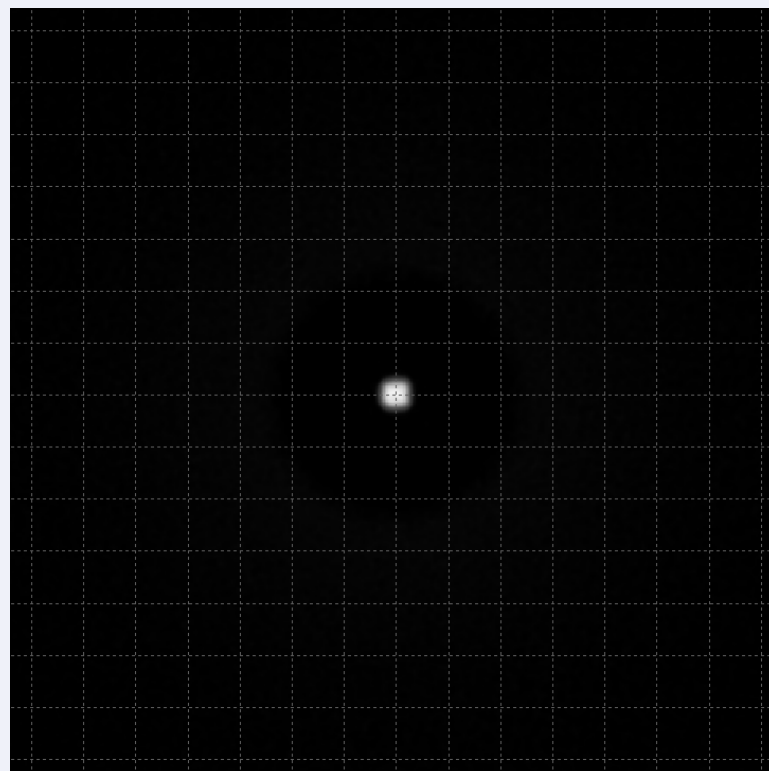
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



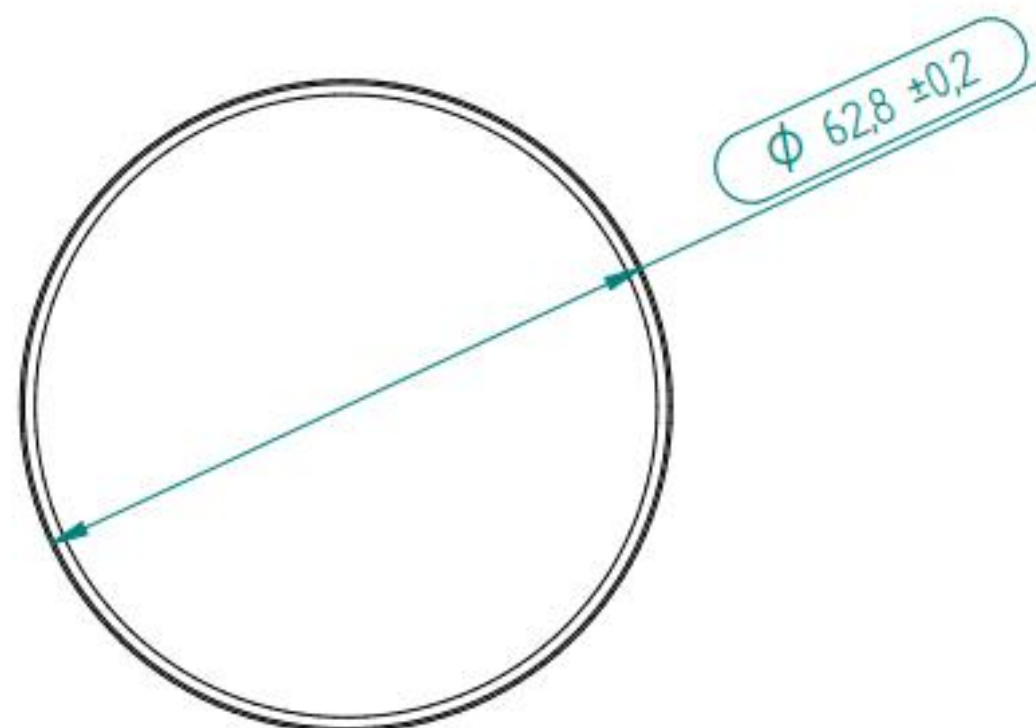
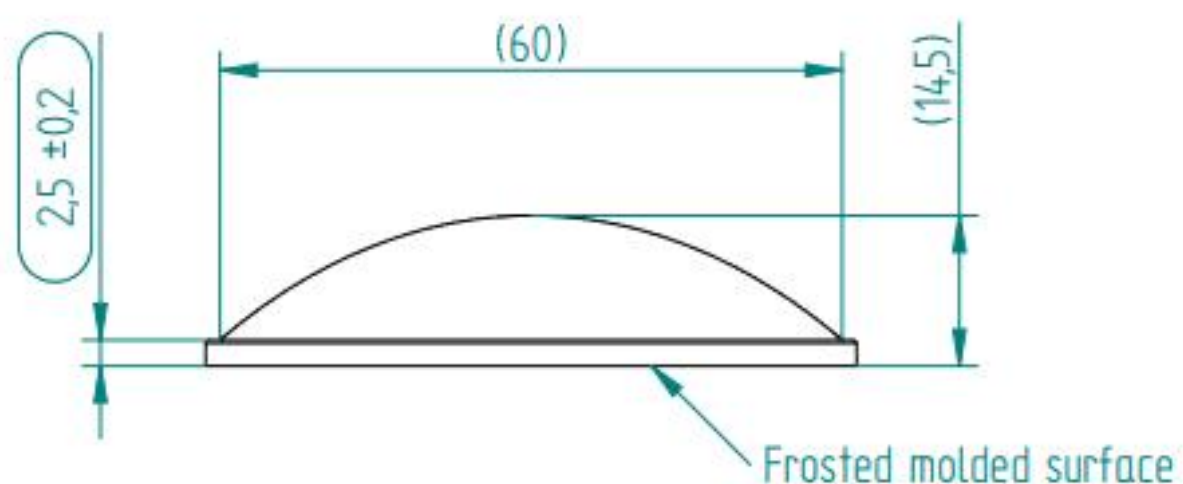
- Projection wall 5x5 m at 1m



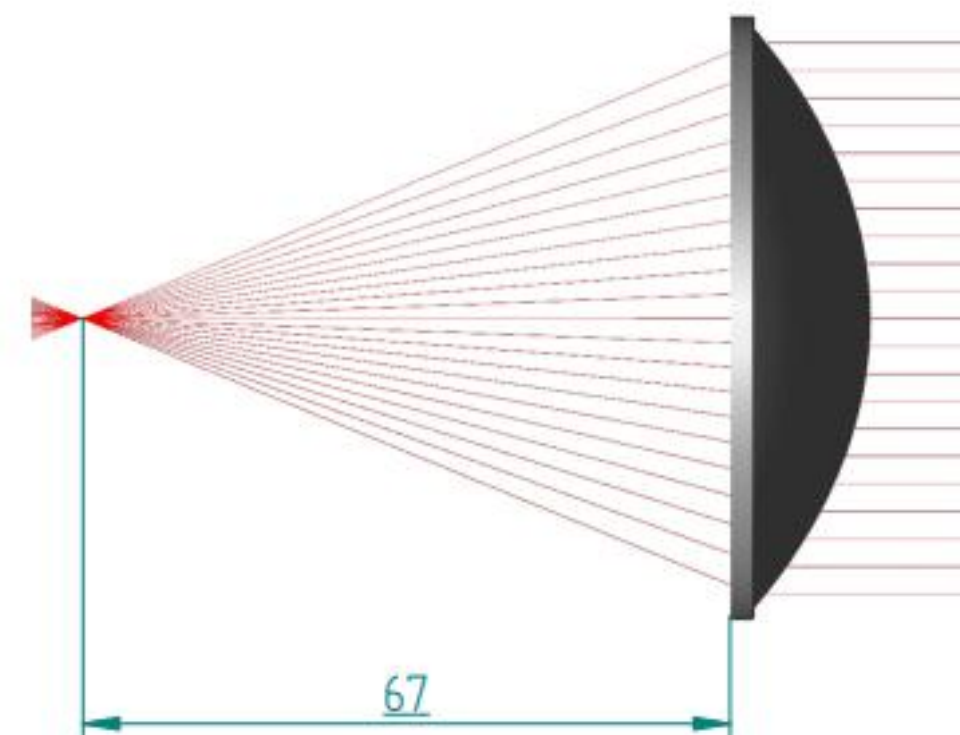
LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
FWHM Co [°]	6
FWHM C90 [°]	6

* The ratio between luminous flux on the projection wall (5x5 m at 1 m) and luminous flux of LED

A850 6315

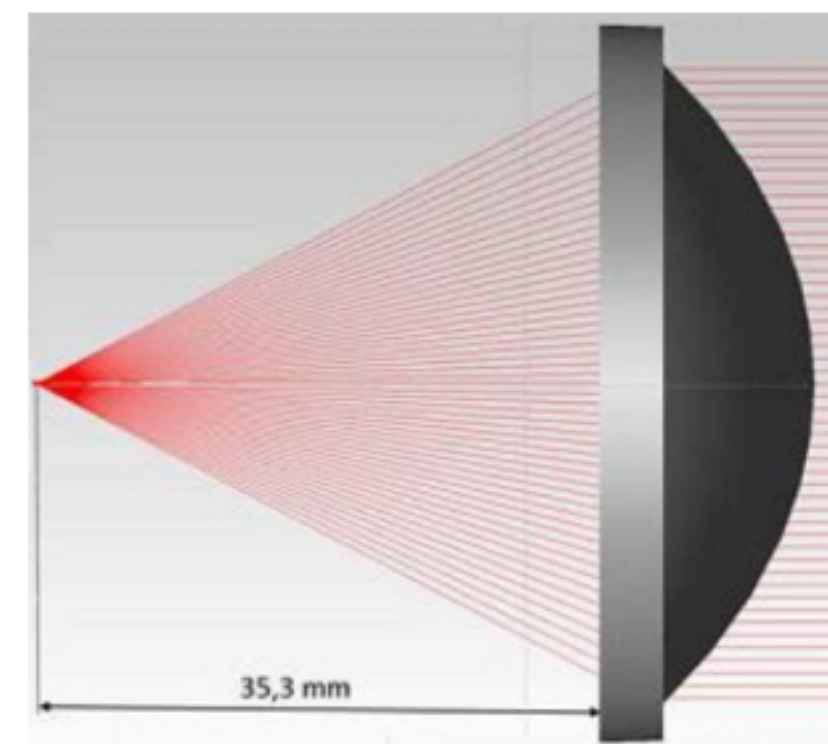
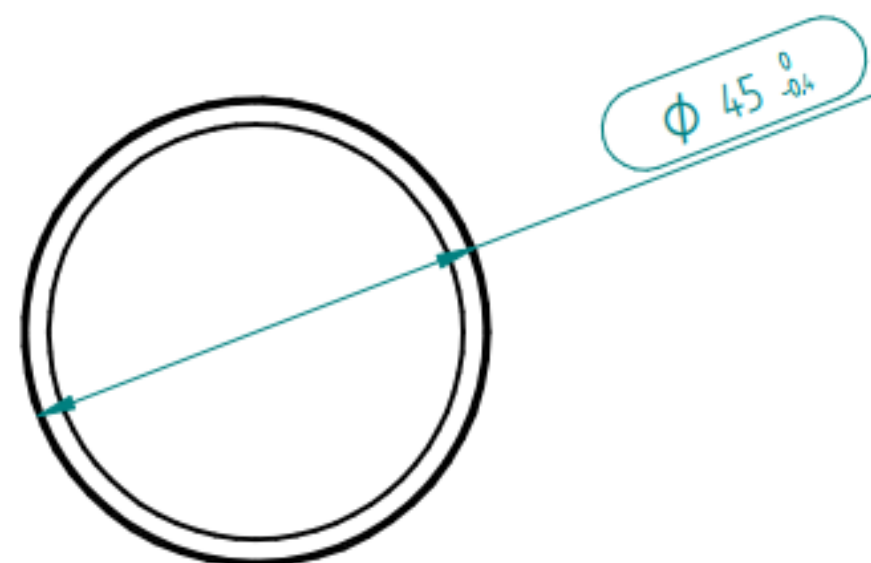
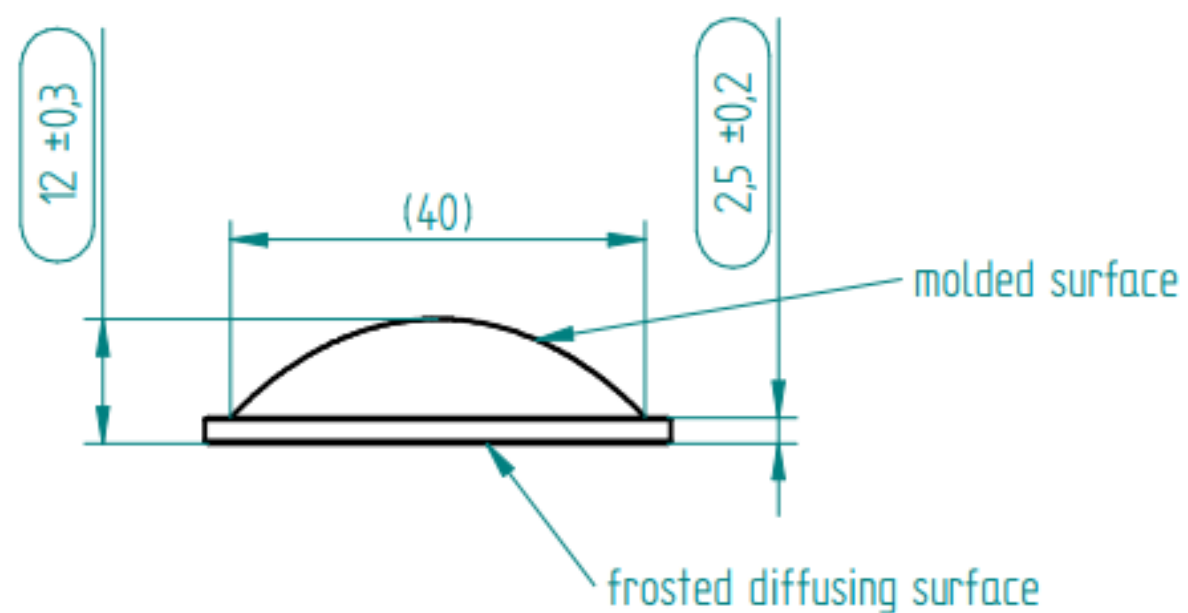


REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED



material : GLASS nd = 1,520

	NAME	DATE		
DRAWN	jkocarek	09/14/23		
CHECKED			TITLE	
ENG APPR				
MGR APPR			Aspheric lens structured flat side	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES ±X.X° 2 PL ±X.XX 3 PL ±X.XXX			SIZE	DWG NO
			A4	A850 6315
			FILE NAME:	A850 6315.dft
			SCALE:	WEIGHT:
			SHEET 1 OF 1	

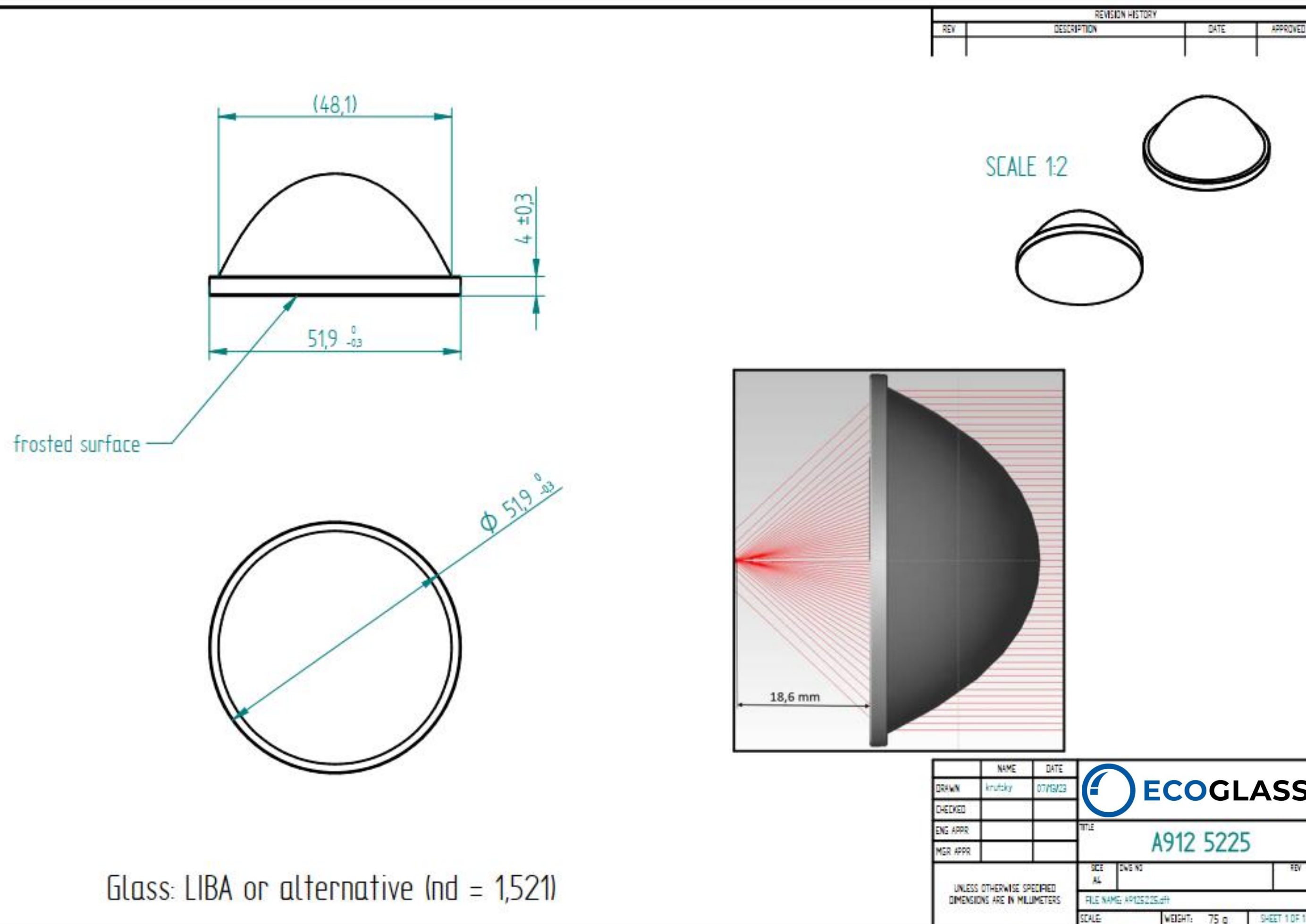


material : GLASS $n_d=1,520$
mass: about 30g

	NAME	DATE		
DRAWN	jkocarek	03/13/23		
CHECKED			TITLE	
ENG APPR				
MGR APPR			Aspheric Lens D45BF35 frosted	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS ANGLES $\pm X.X^\circ$ 2 PL $\pm X.XX$ 3 PL $\pm X.XXX$			SIZE A4	DWG NO A904 4512
			FILE NAME: A904 4512.dft	
			SCALE:	WEIGHT: SHEET 1 OF 1

REV
AP01

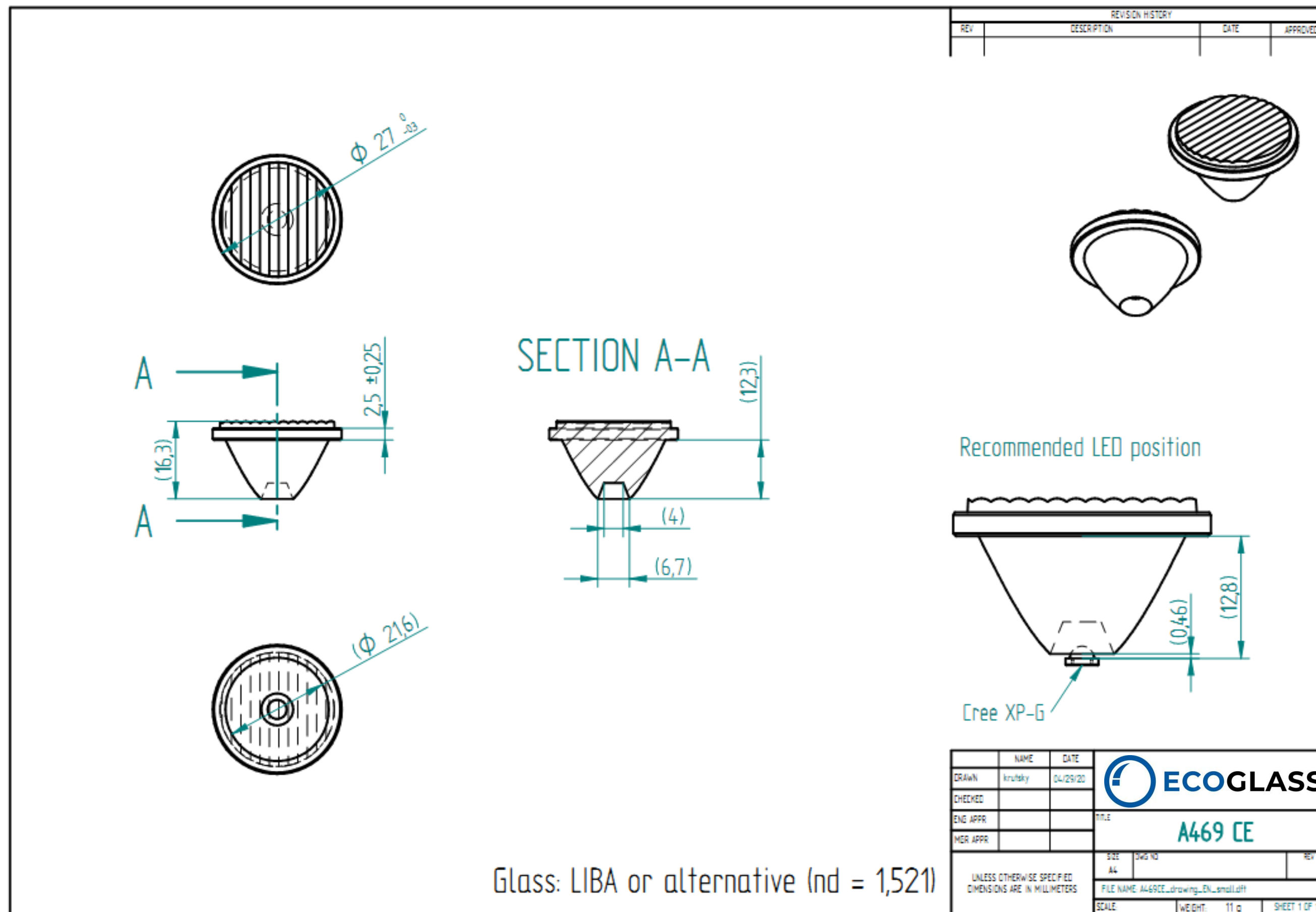
A912 5225



ECOGLOSS TIR Lenses					
ECOGLOSS code	Lens type	Beam angles FWHM (°) *		Diameter (mm)	Thickness (mm)
		Co (0°)	C90 (90°)		
A469 CE	Collimator	20	40	27,0	16,3
A470 C10	Collimator	10	10	27,0	19,3
A471 C40	Collimator	40	40	27,0	14,8
A492 C40	Collimator	40	40	27,0	15,2
A493 C40	Collimator	50	50	27,0	19,8
A559 5631	Collimator	6,5	6,5	56,0	30,8
A561 7041	Collimator	5,6	5,6	70,0	41,0
A562 3929	Collimator	7,8	7,8	39,0	26,0
A643 C20	Collimator	20	20	27,0	16,4

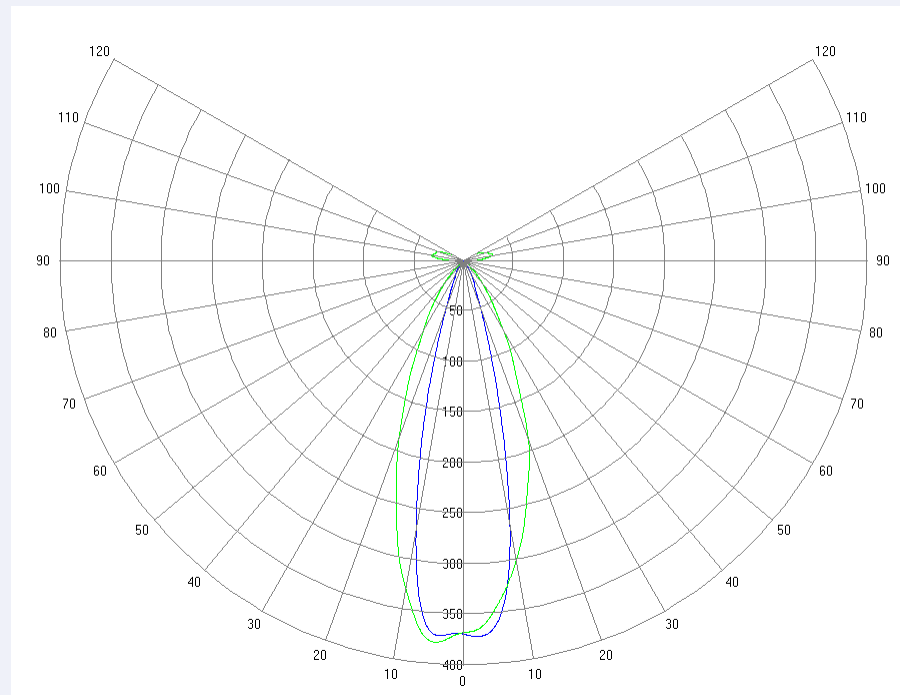


A469 CE

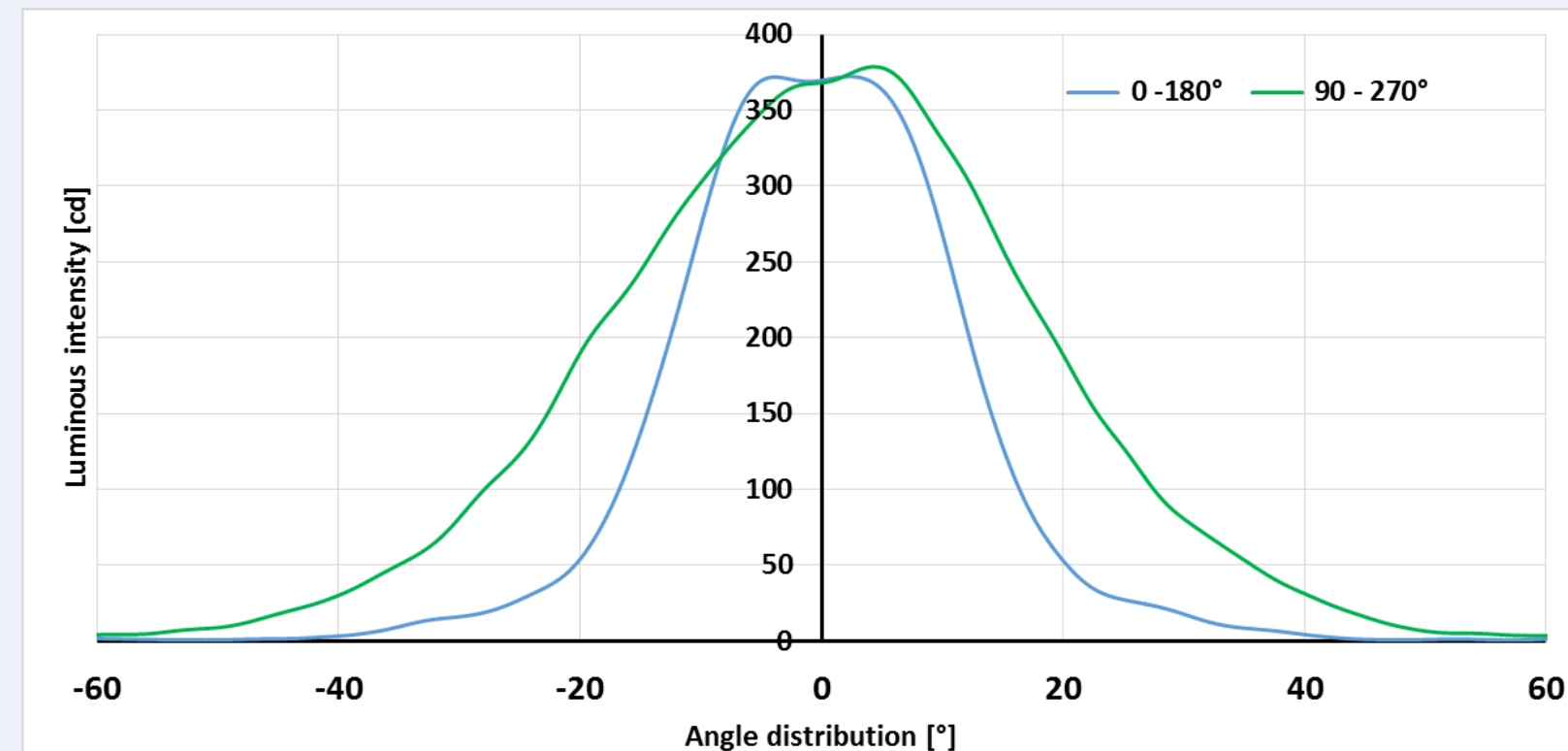


A46g CE– simulation results

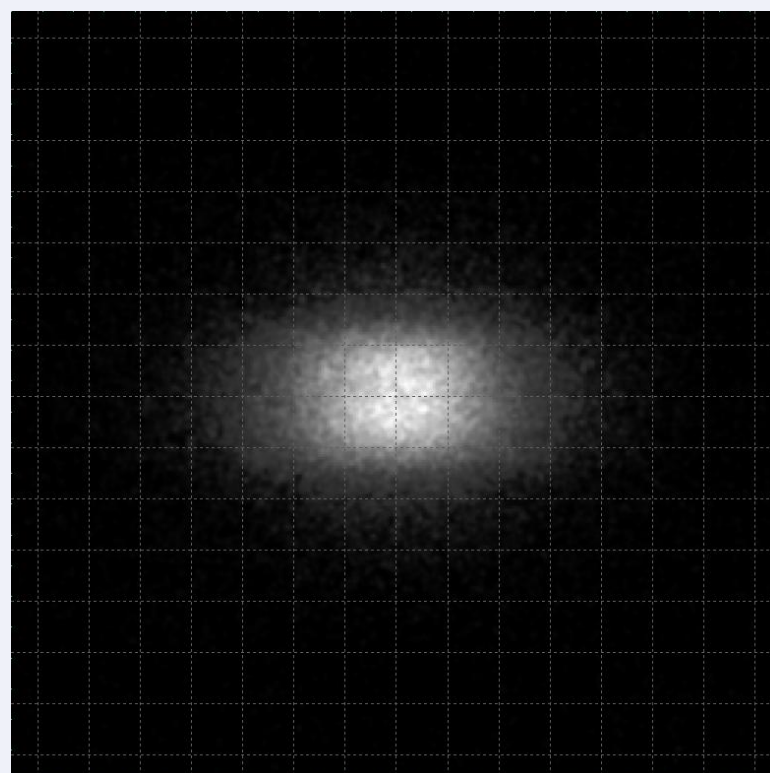
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



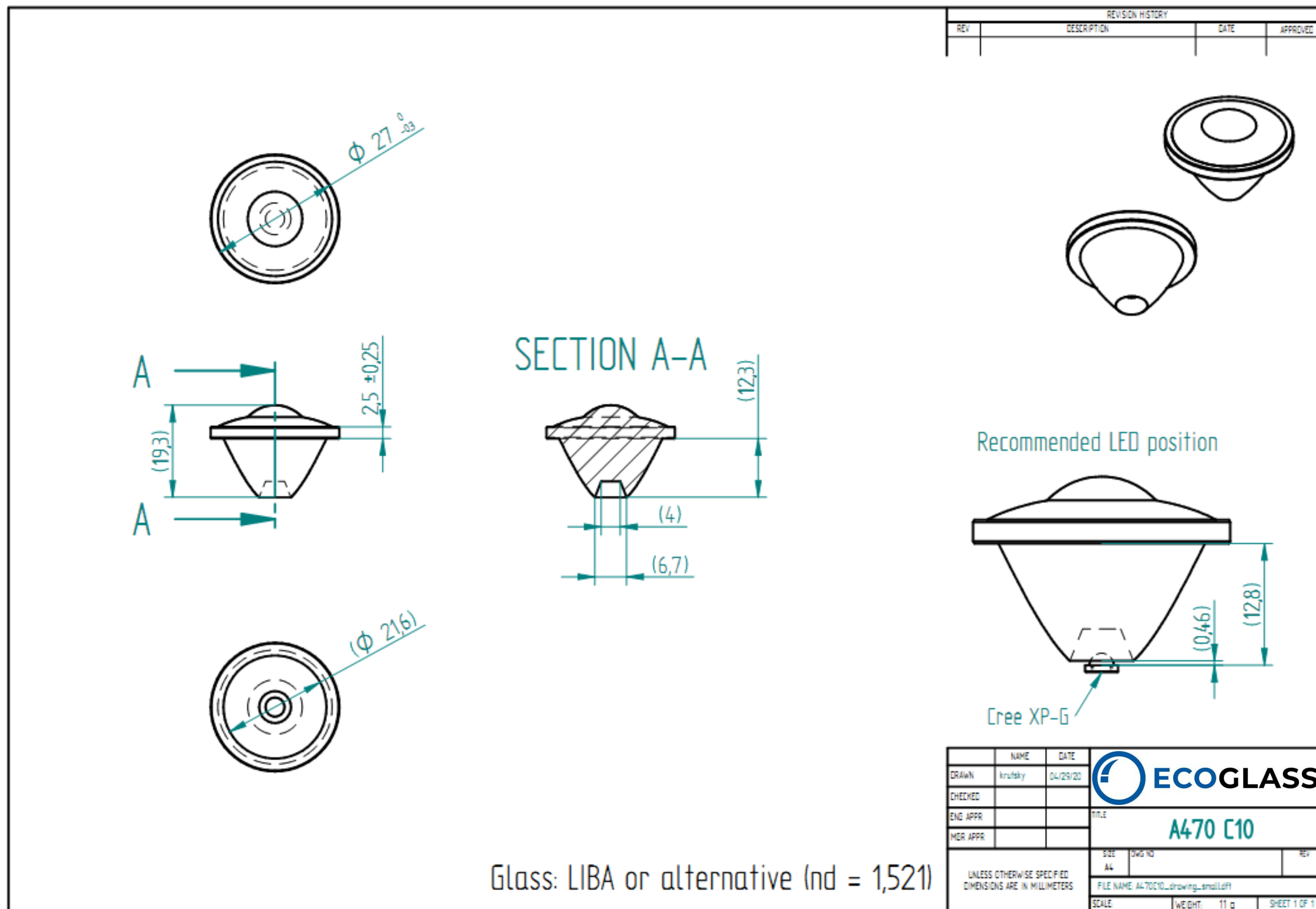
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
Efficiency [%]*	81
FWHM Co [°]	20
FWHM C90 [°]	40

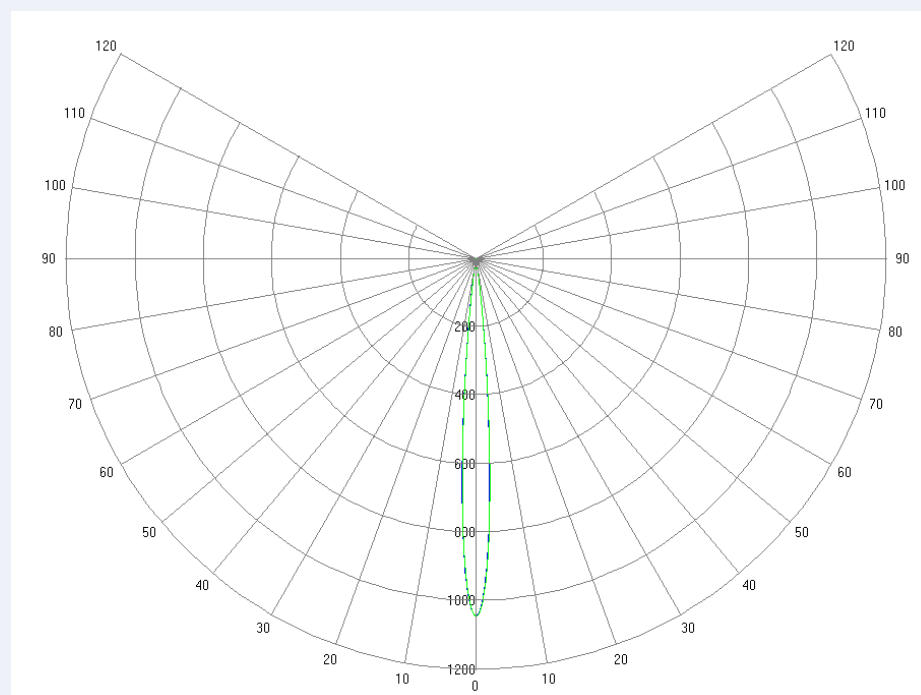
* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A470 C10

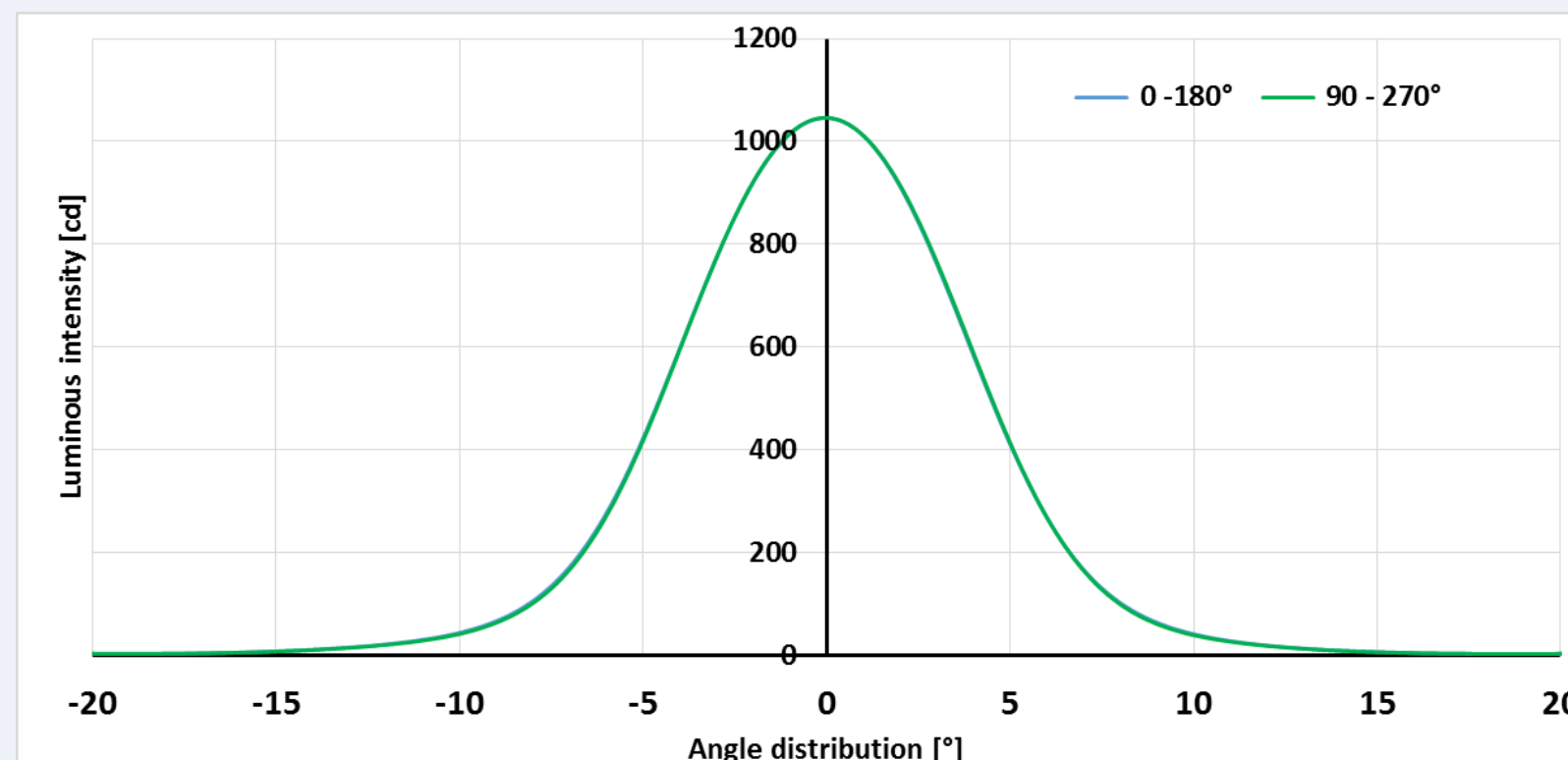


A470 C10– simulation results

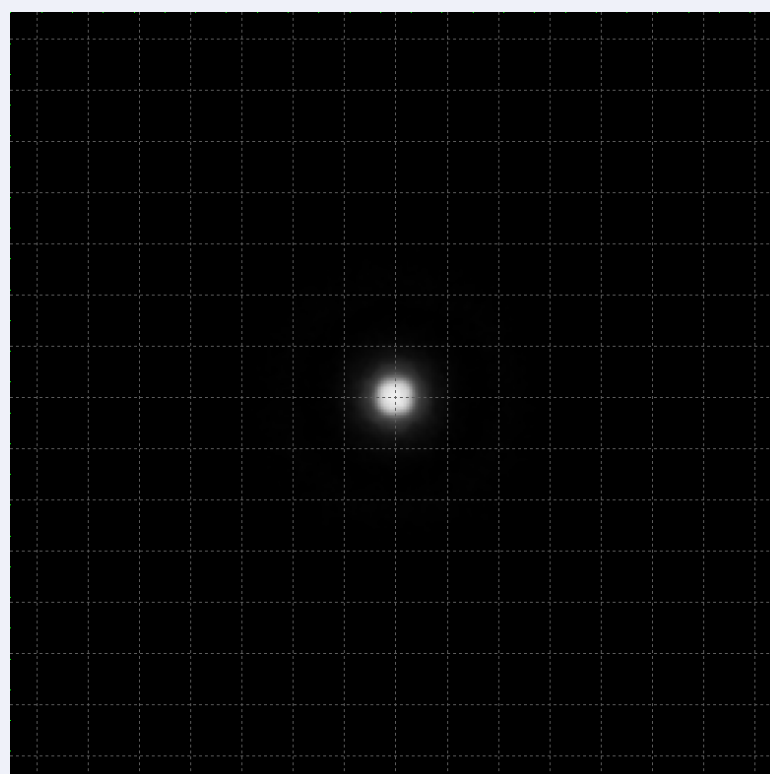
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



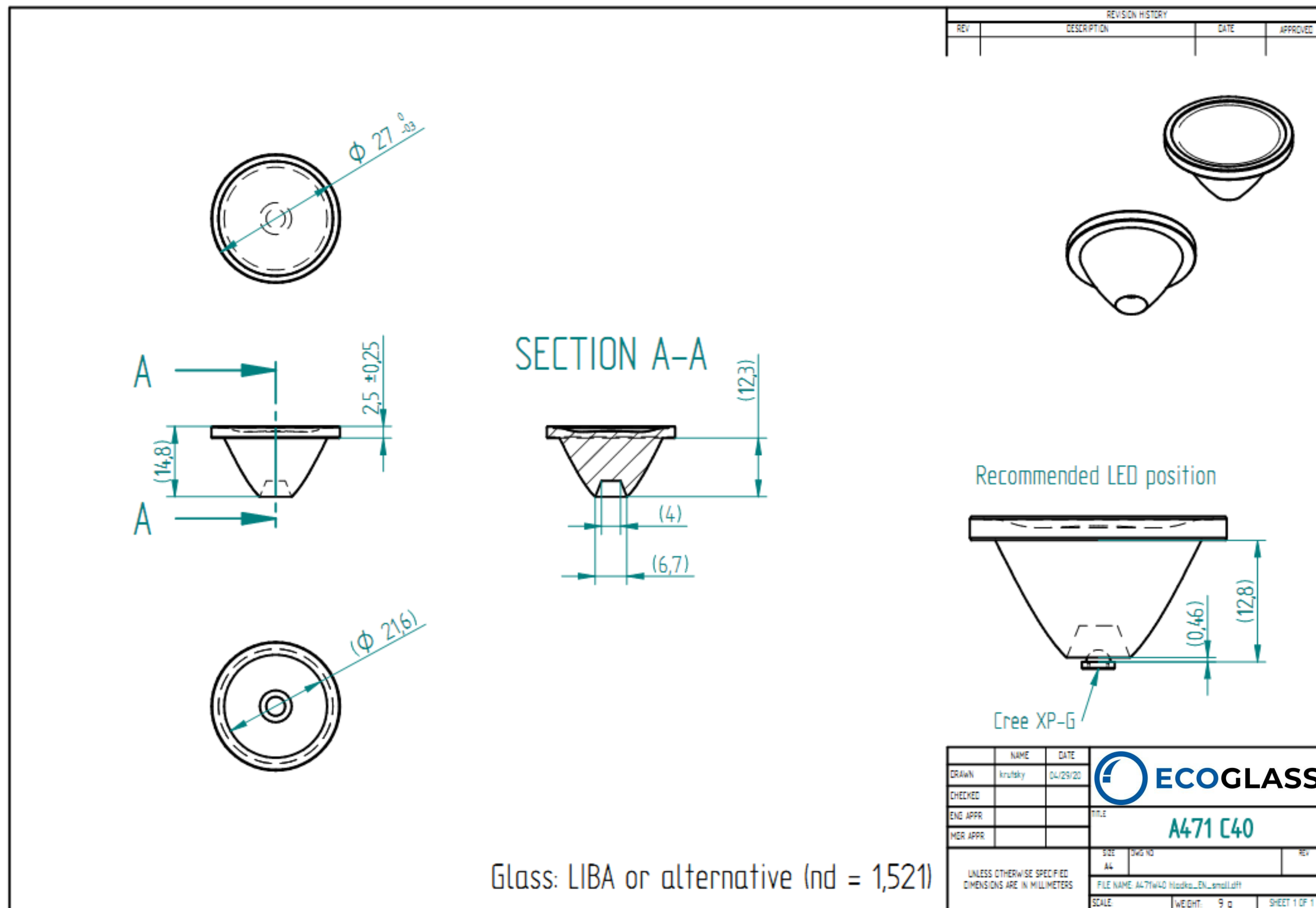
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
Efficiency [%]*	87
FWHM Co [°]	10
FWHM C90 [°]	10

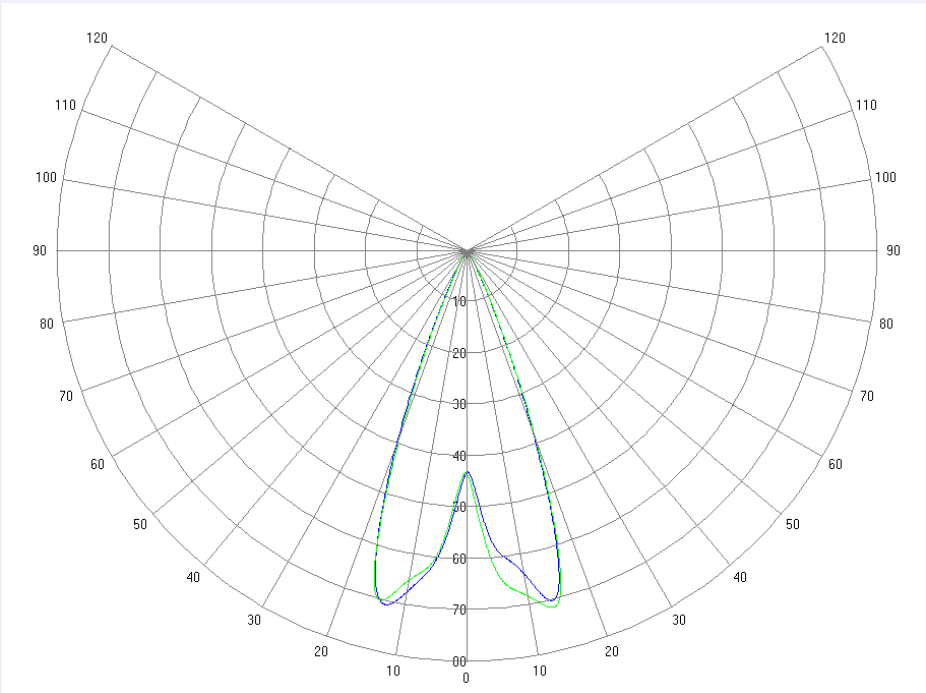
* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A471 C40

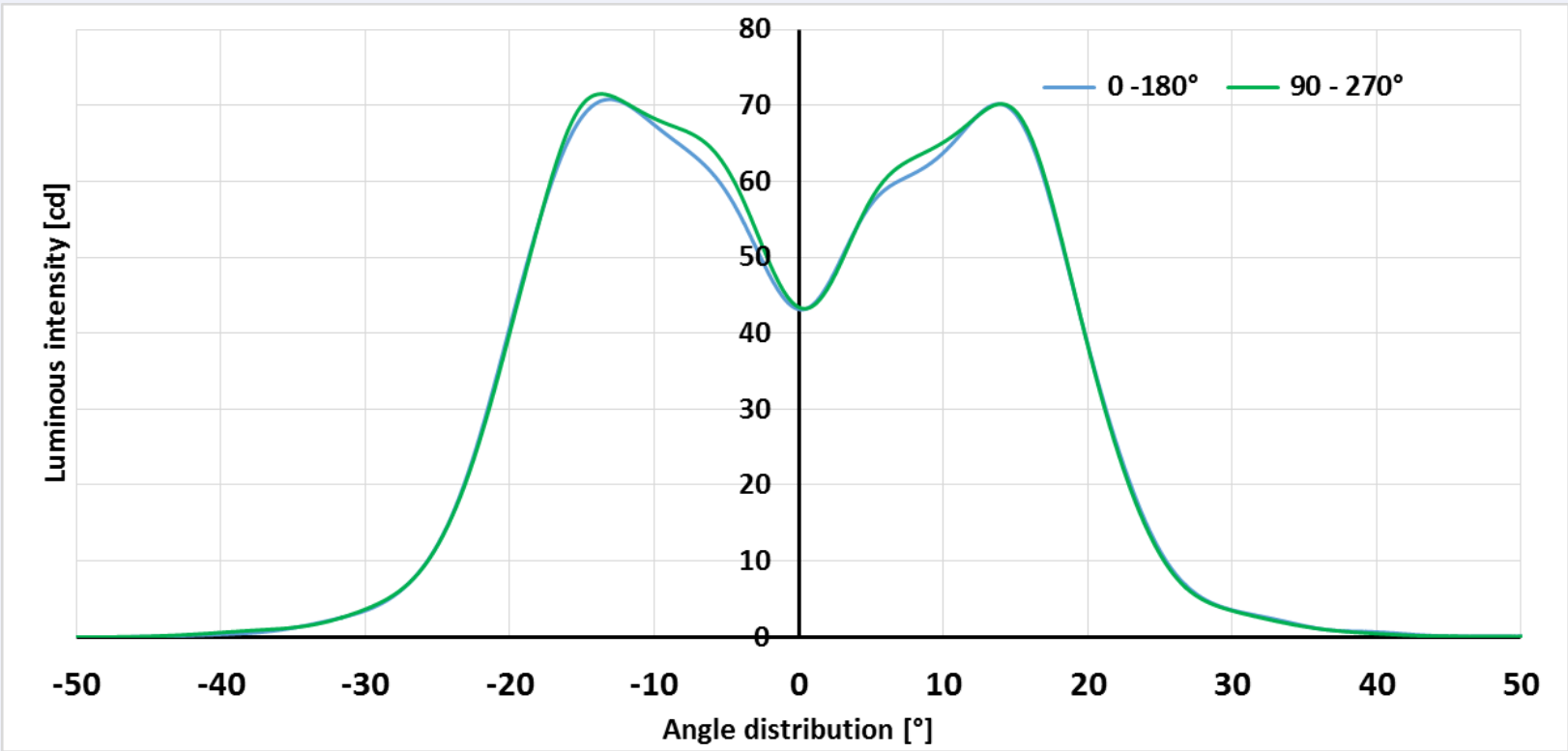


A471 C40– simulation results

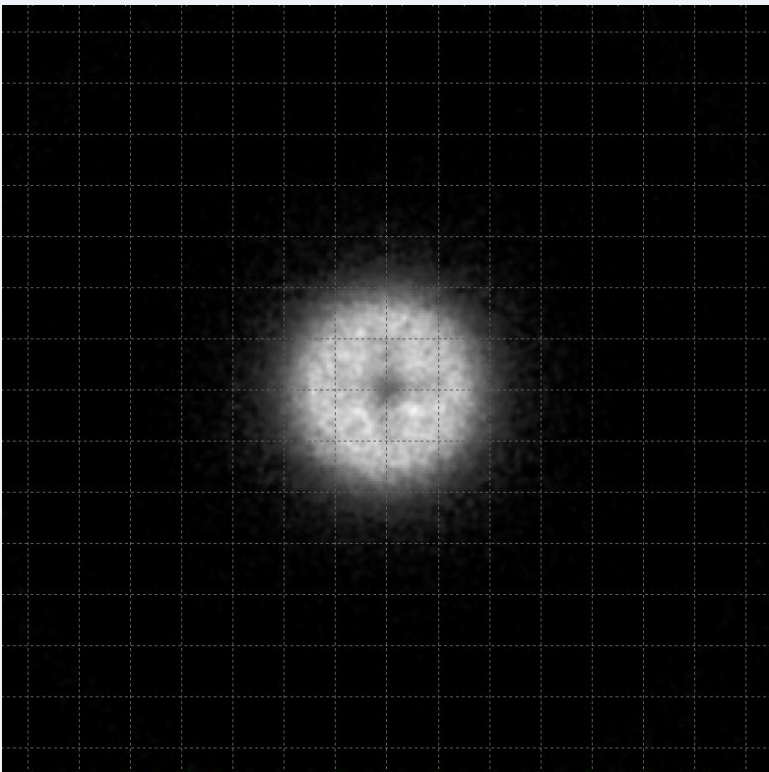
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



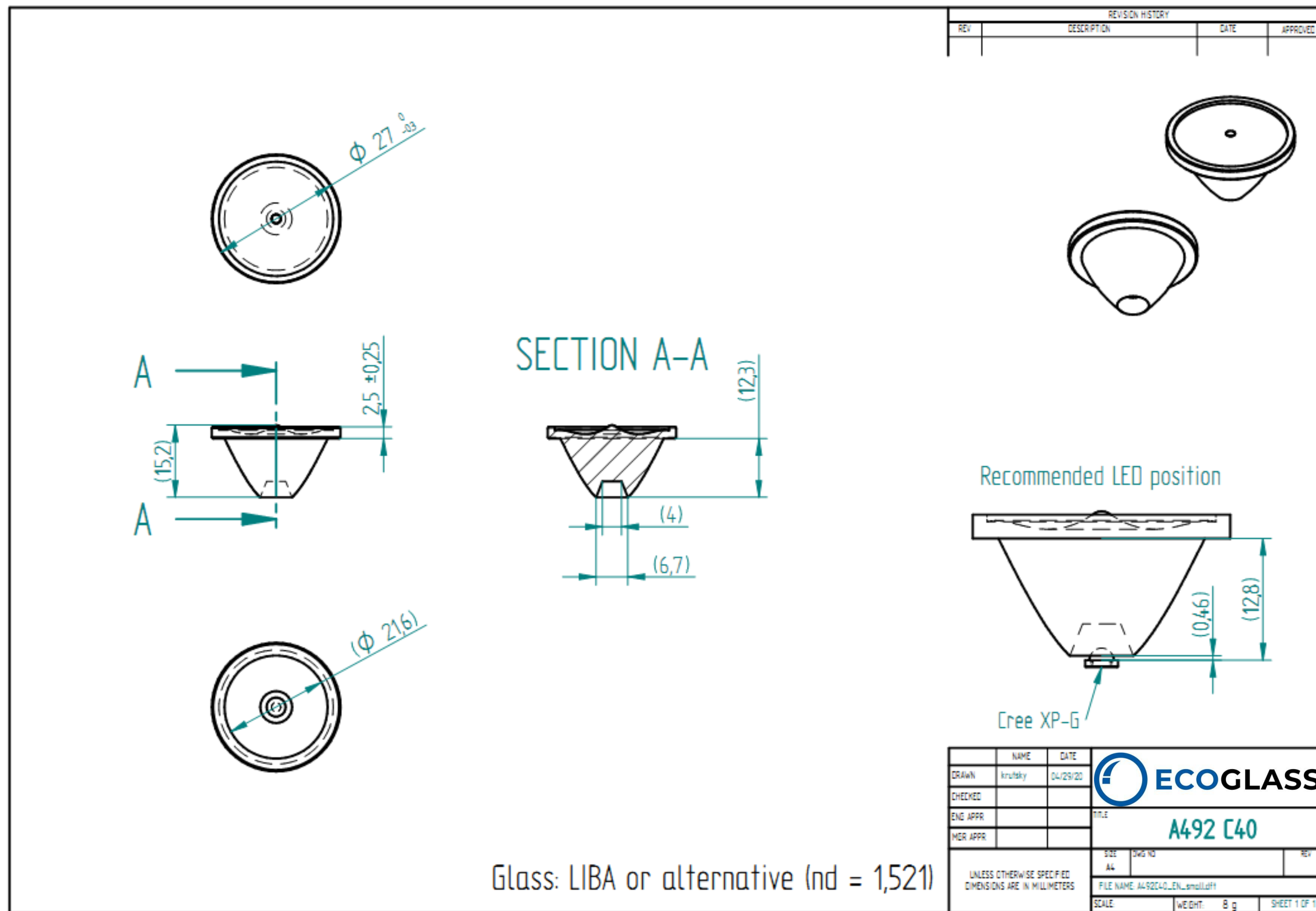
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
Efficiency [%]*	88
FWHM Co [°]	40
FWHM C90 [°]	40

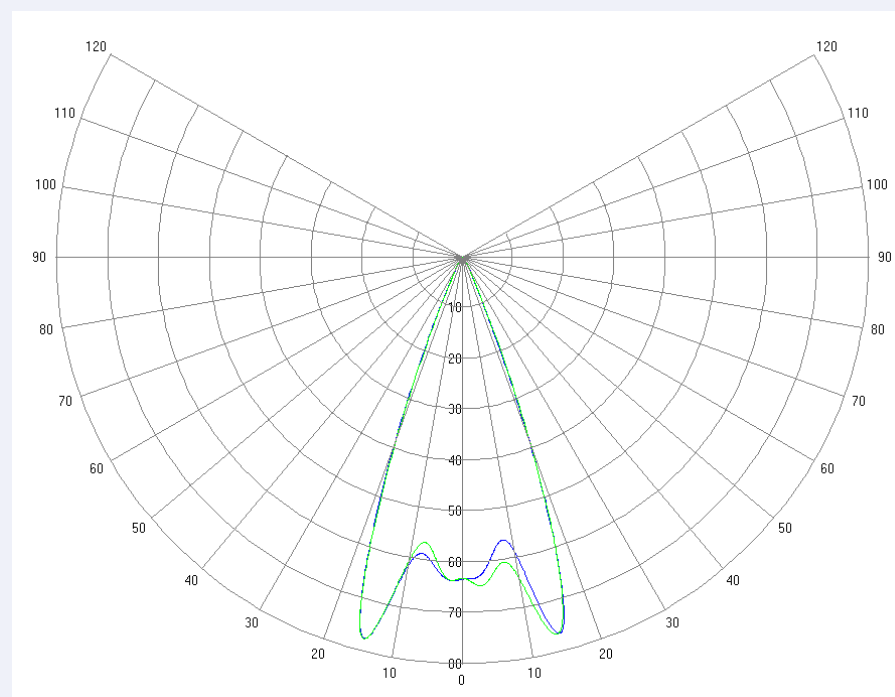
* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A492 C40

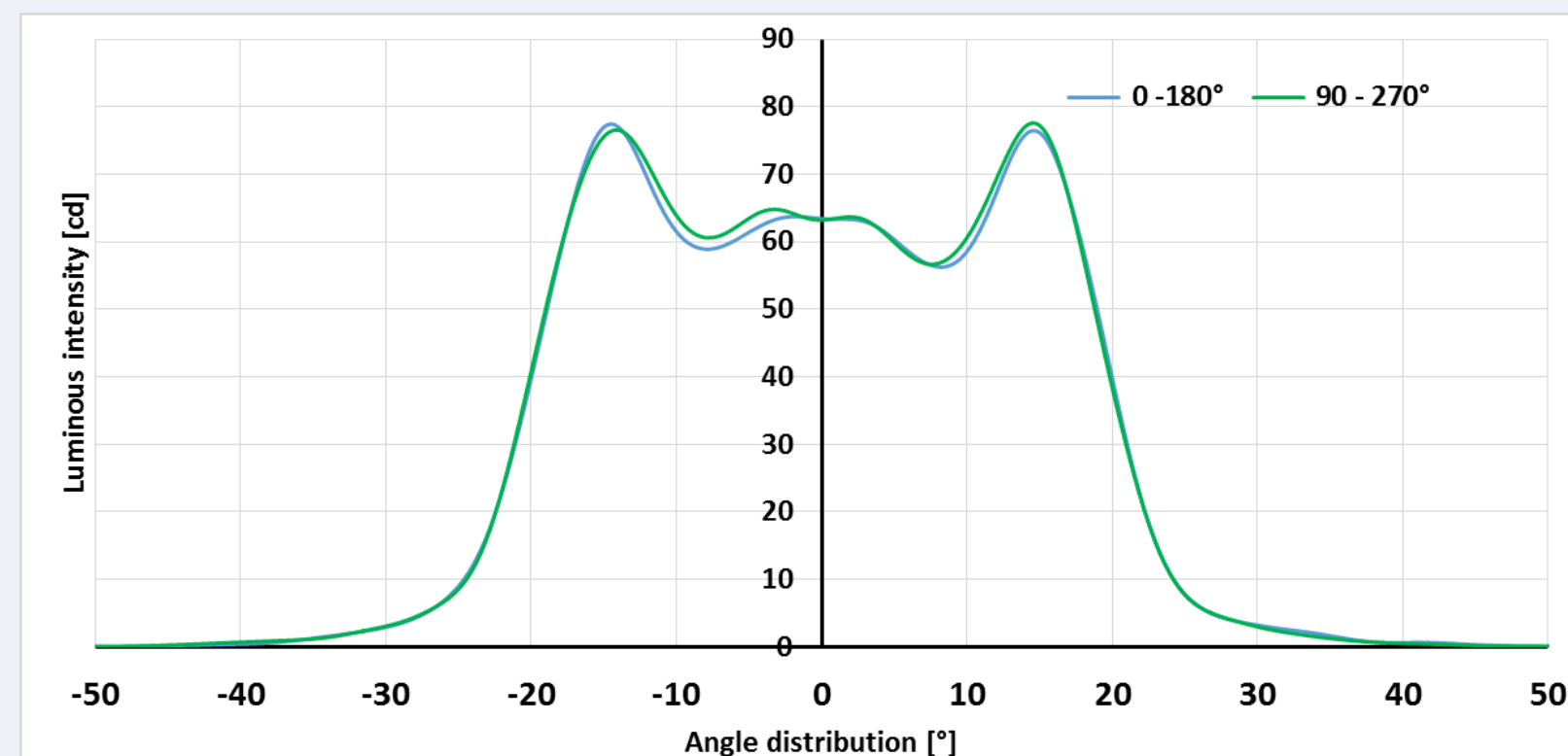
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A492 C40– simulation results

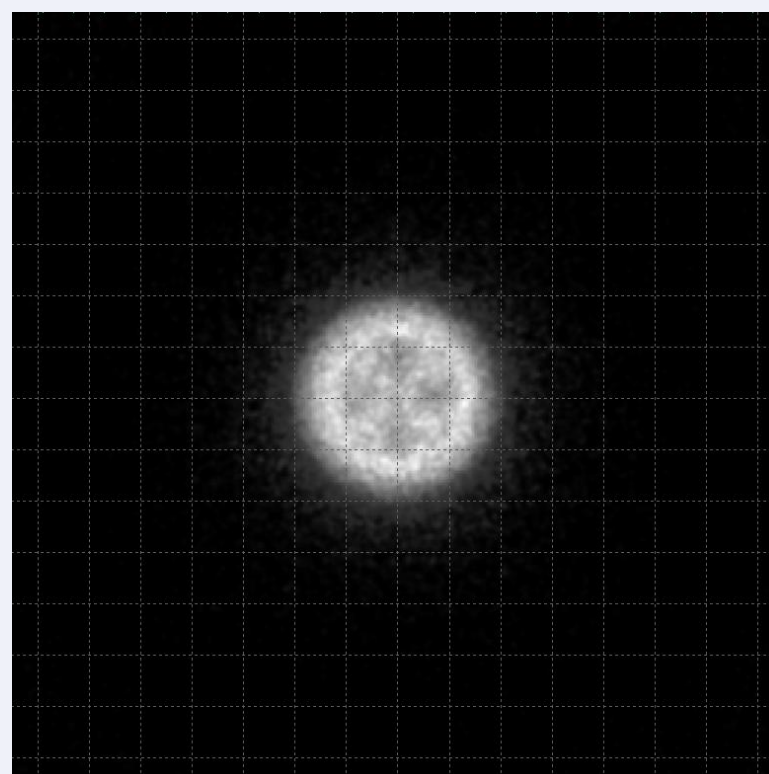
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



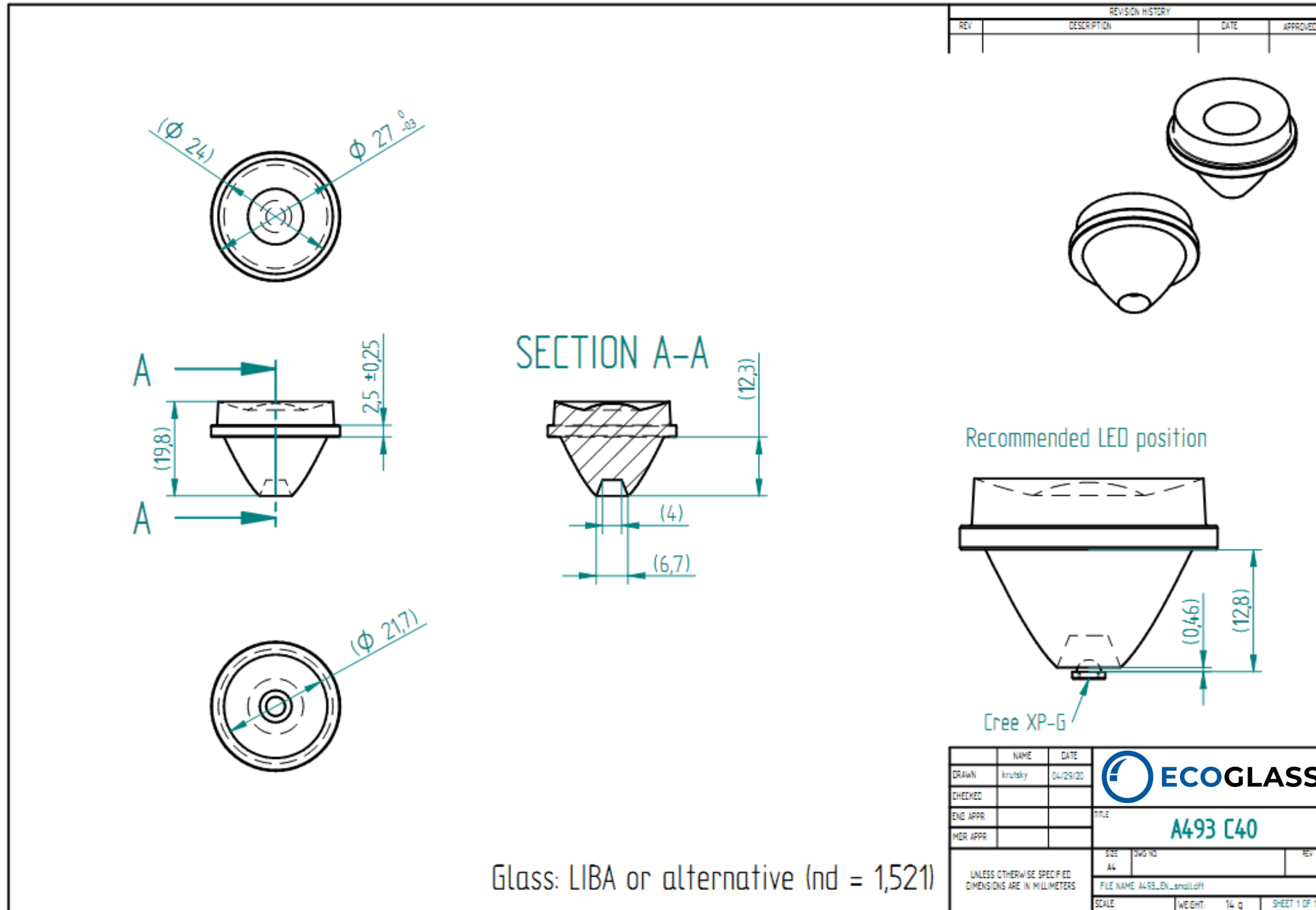
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
Efficiency [%]*	87
FWHM Co [°]	40
FWHM C90 [°]	40

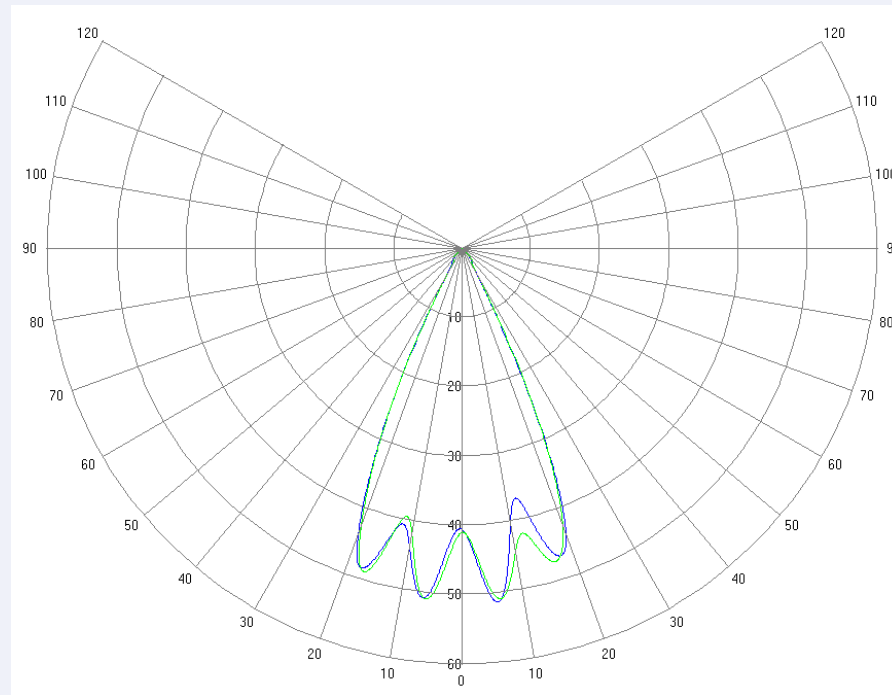
* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A493 C40

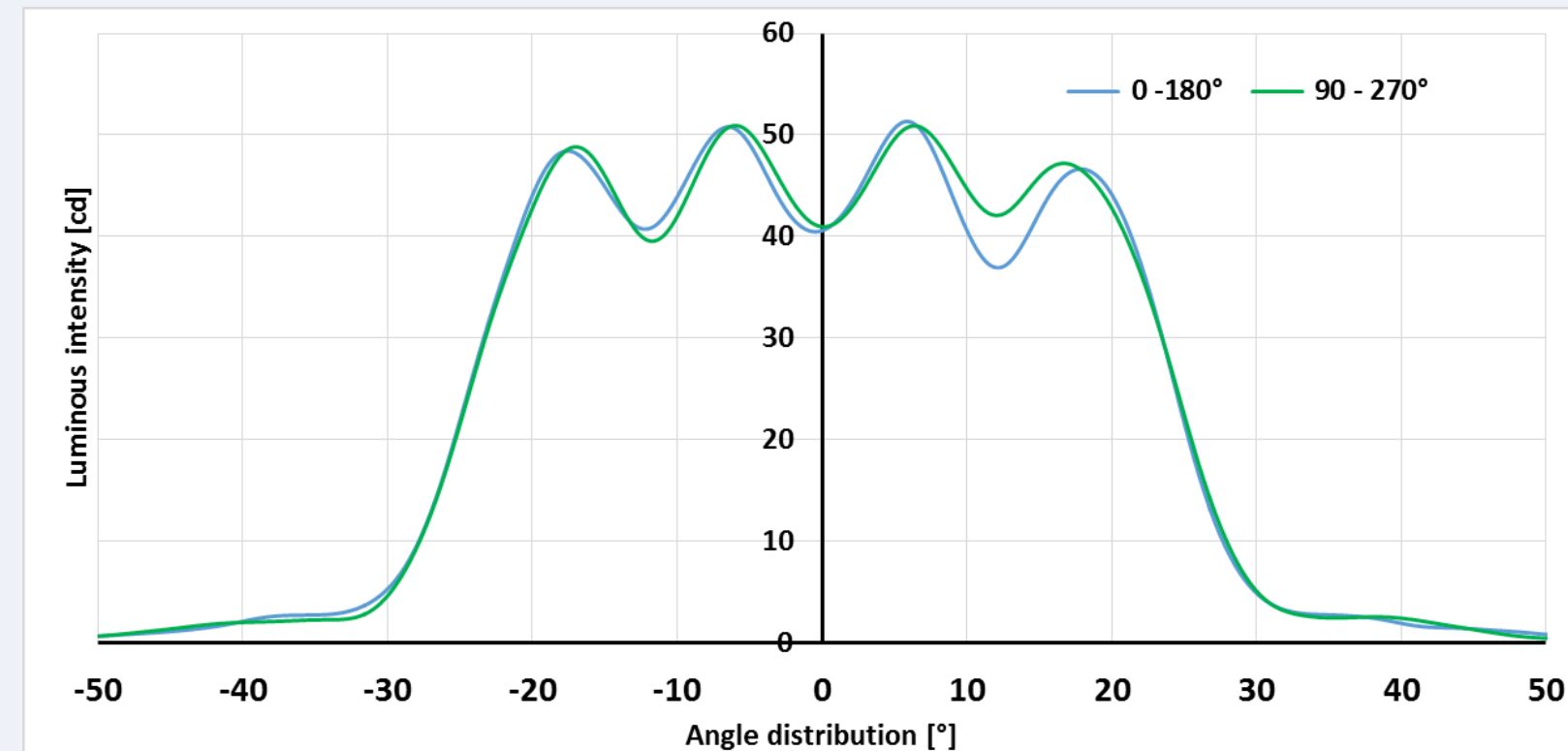


A493 C40– simulation results

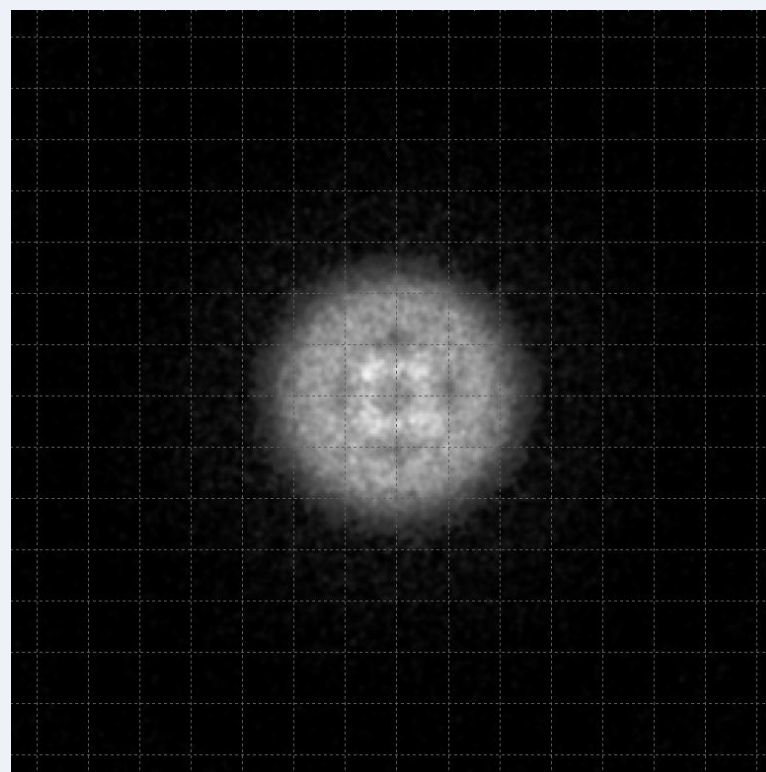
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



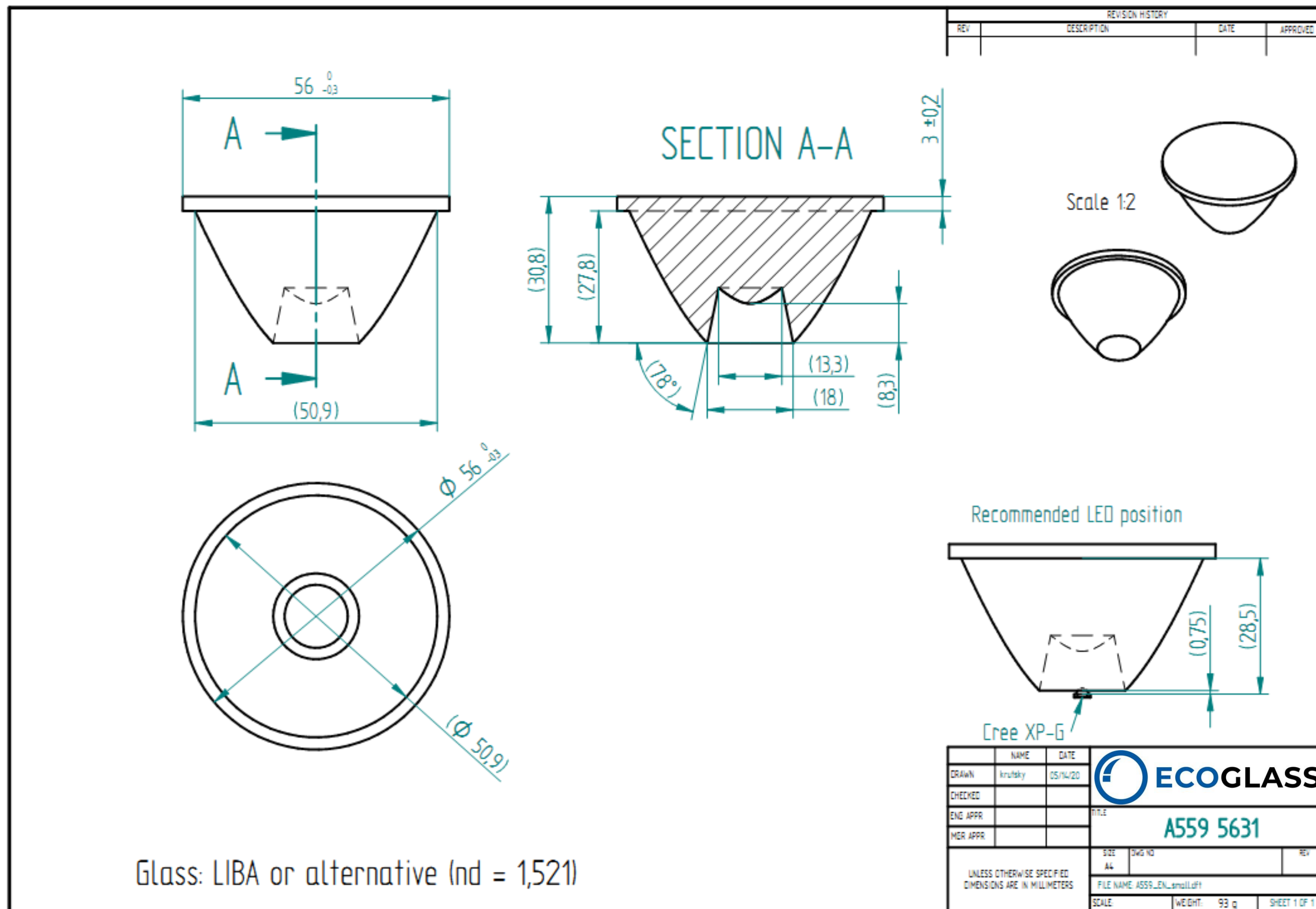
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
Efficiency [%]*	87
FWHM Co [°]	50
FWHM Cgo [°]	50

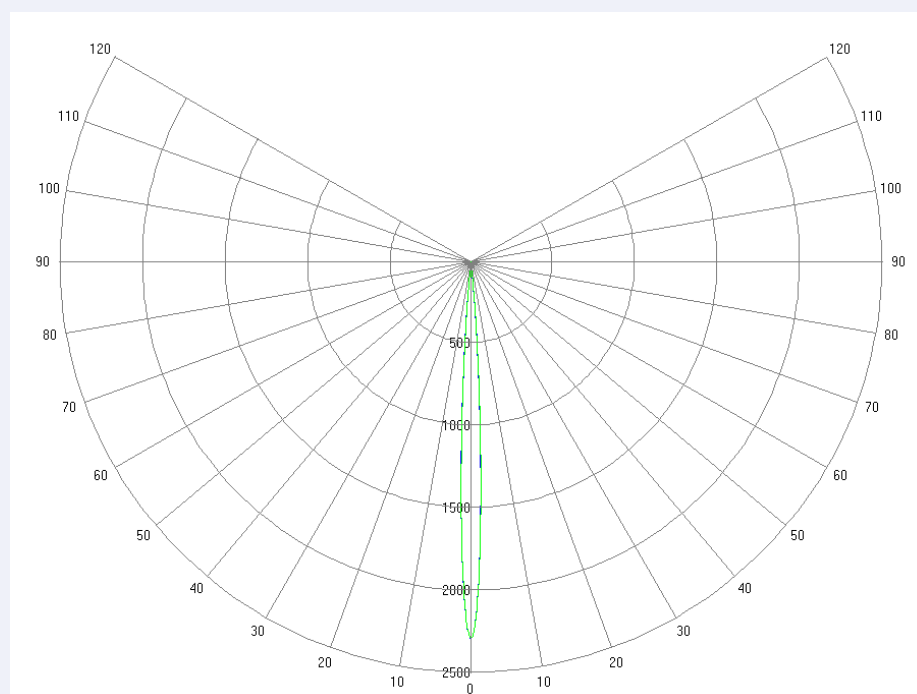
* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A559 5631

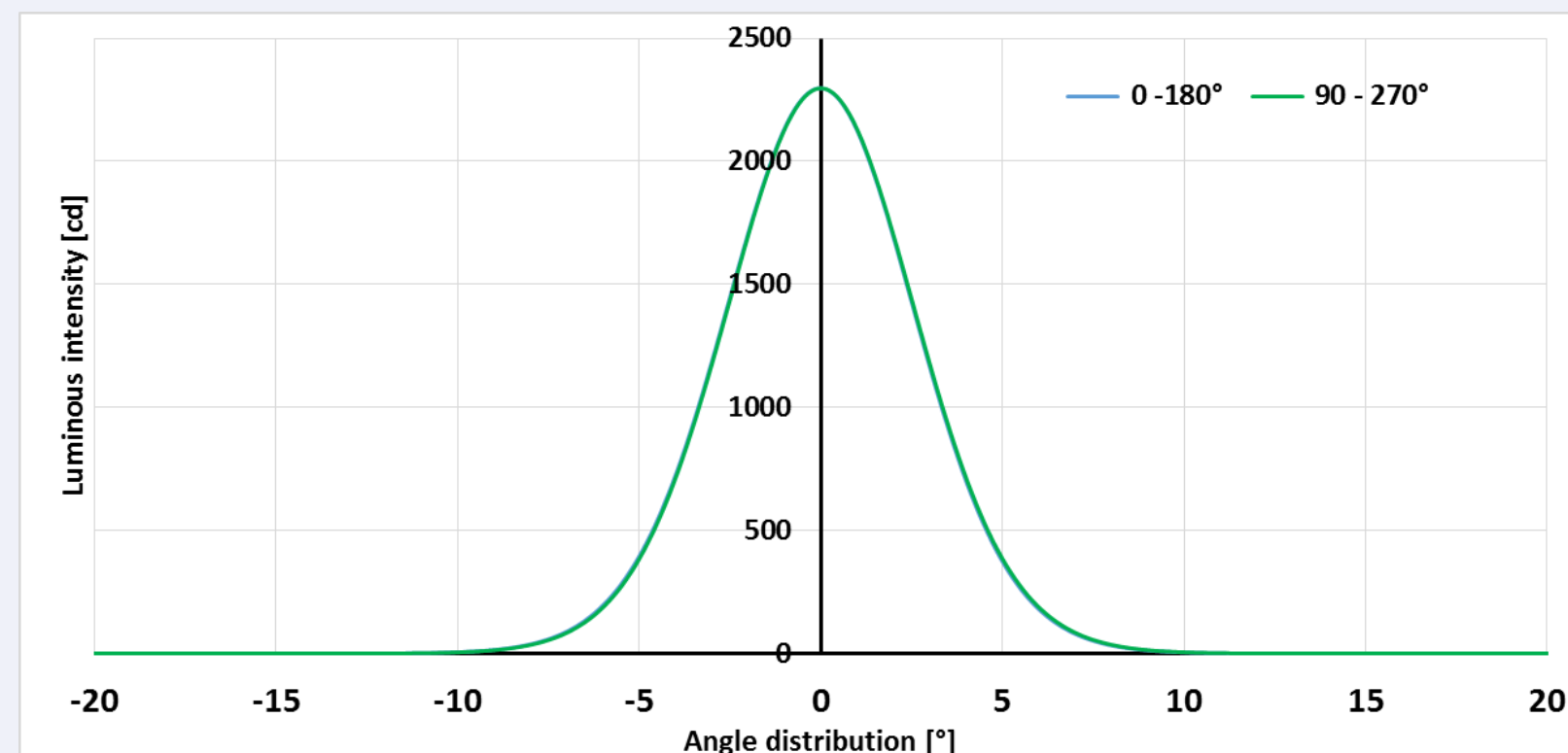


A559 5631– simulation results

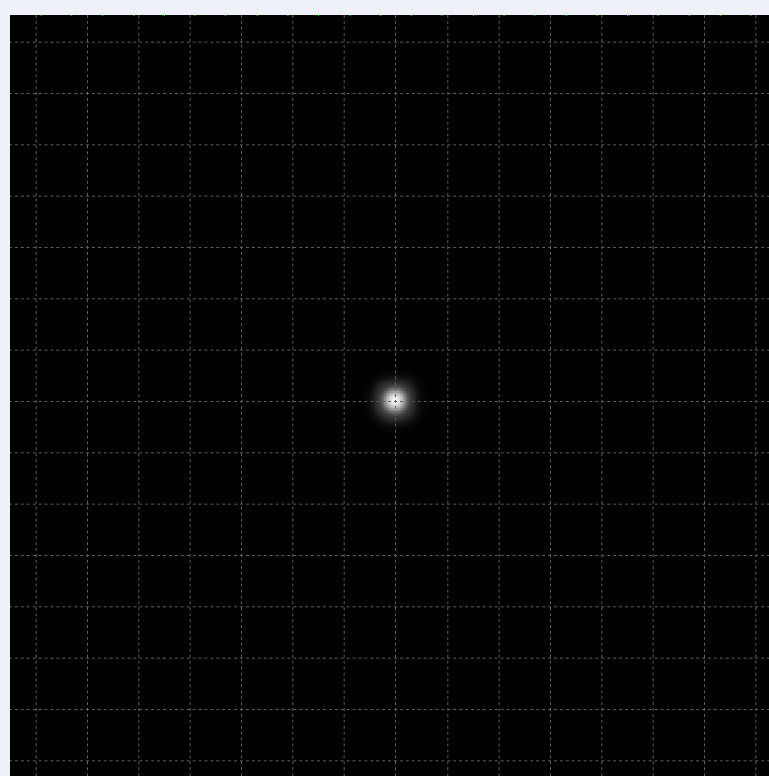
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



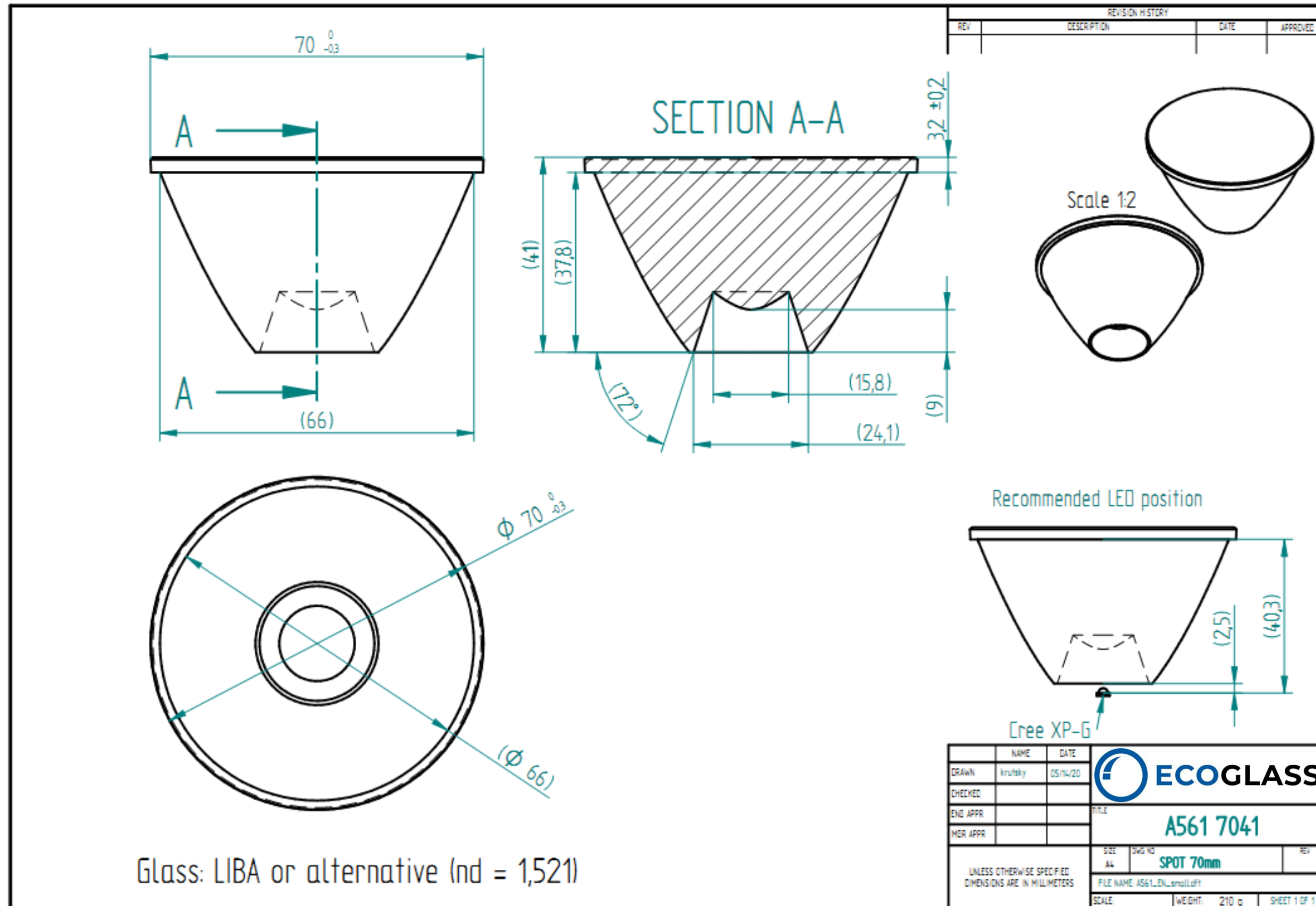
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
Efficiency [%]*	89
FWHM Co [°]	6,5
FWHM C90 [°]	6,5

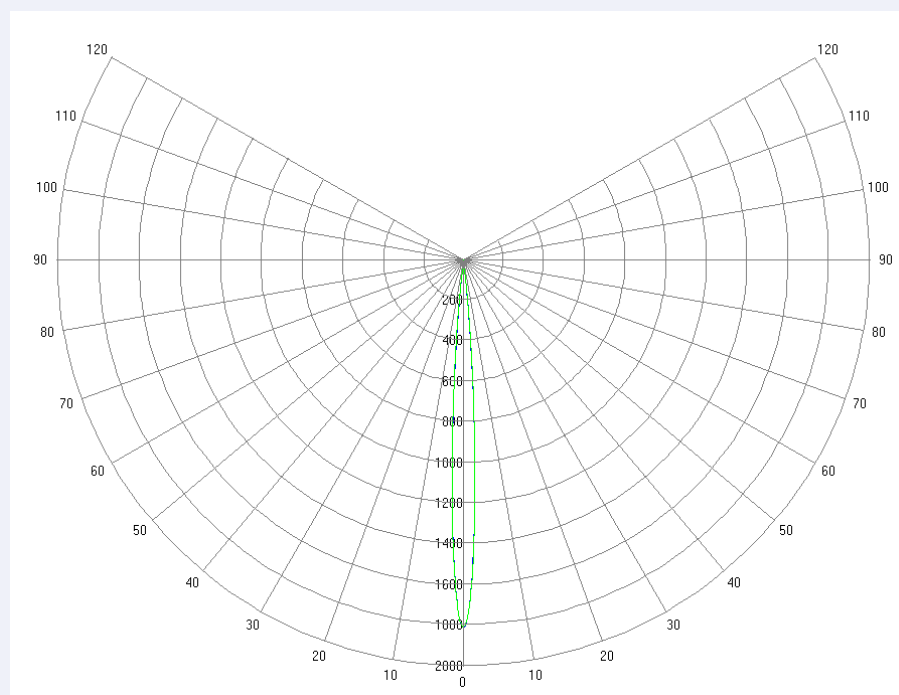
* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A561 7041

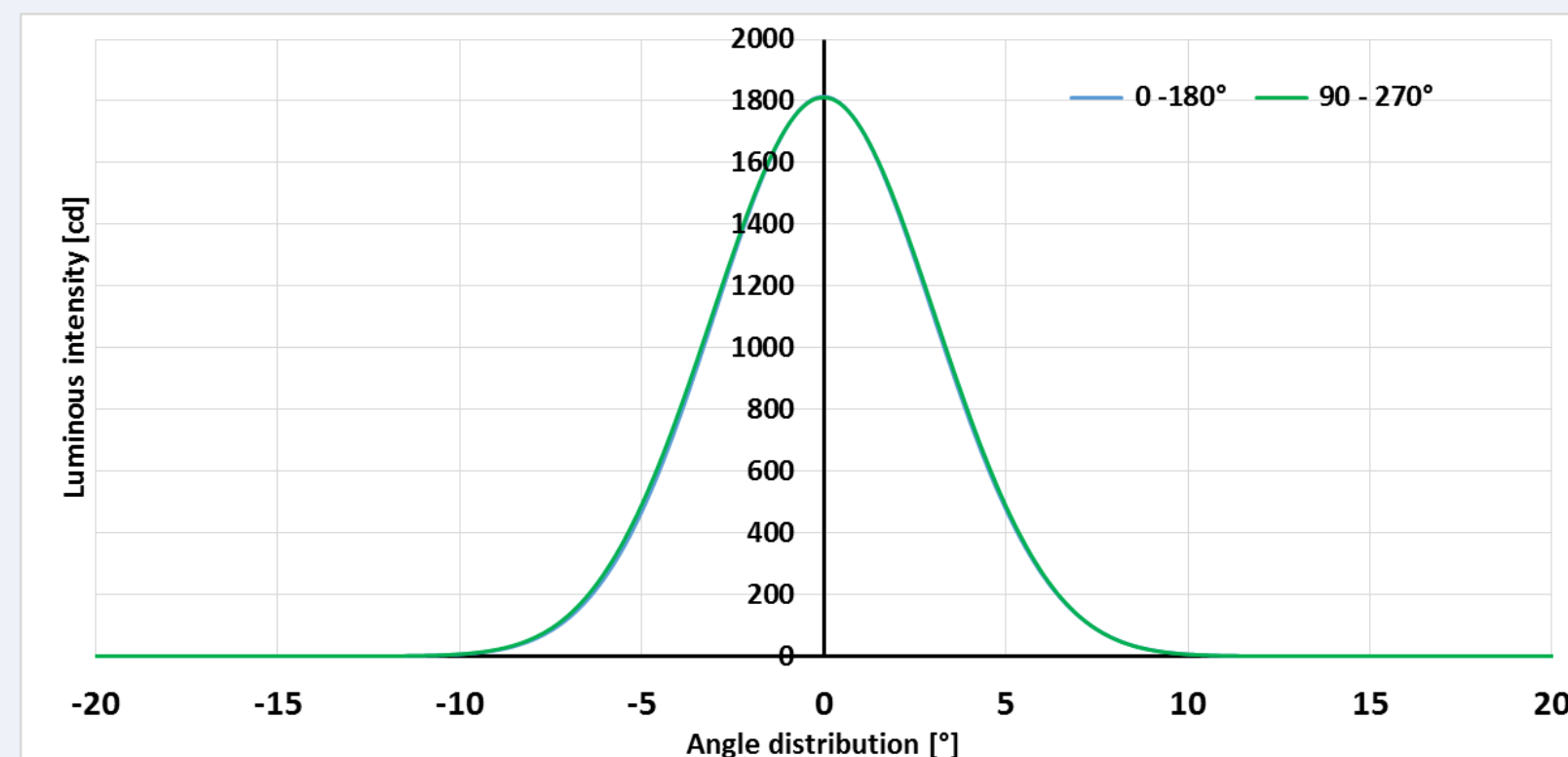


A561 7041– simulation results

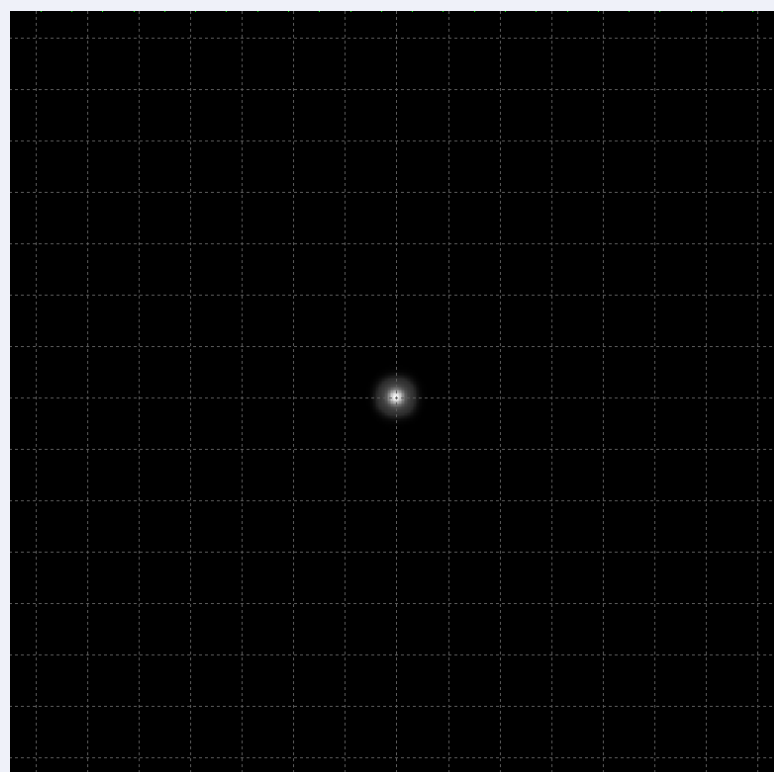
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



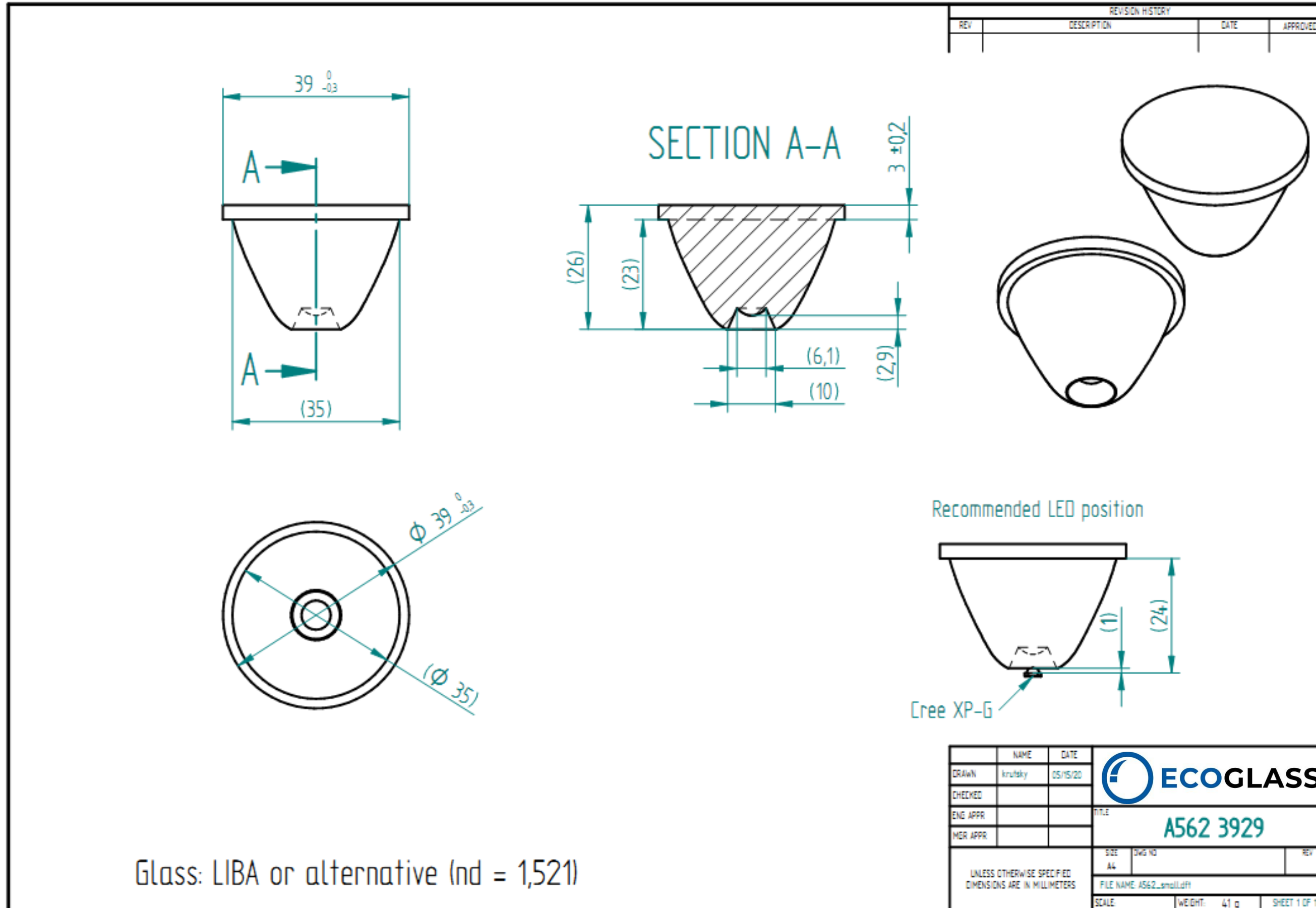
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
Efficiency [%]*	87
FWHM Co [°]	5,6
FWHM C90 [°]	5,6

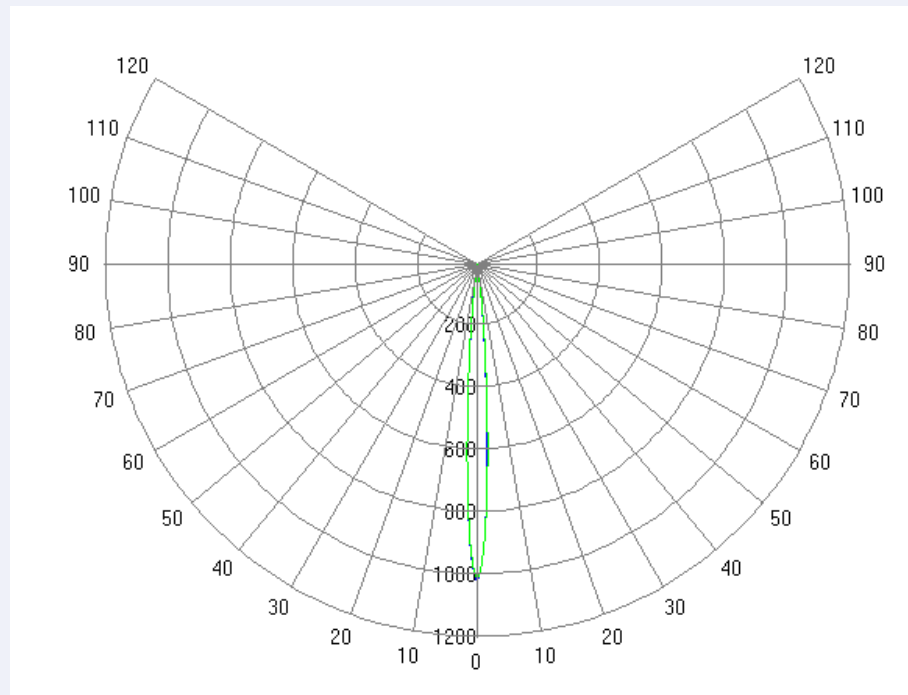
* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A562 3929

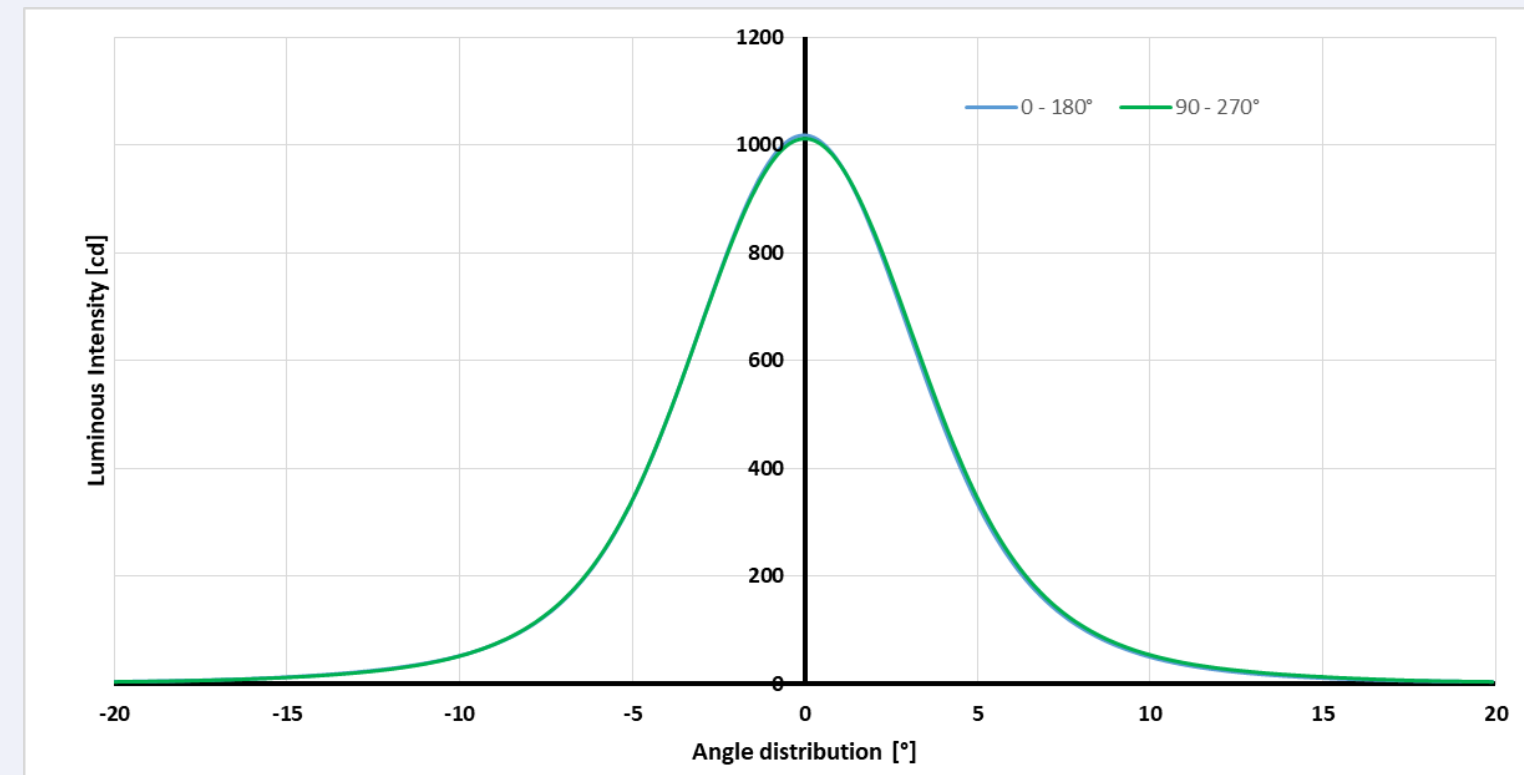


A562 3929– simulation results

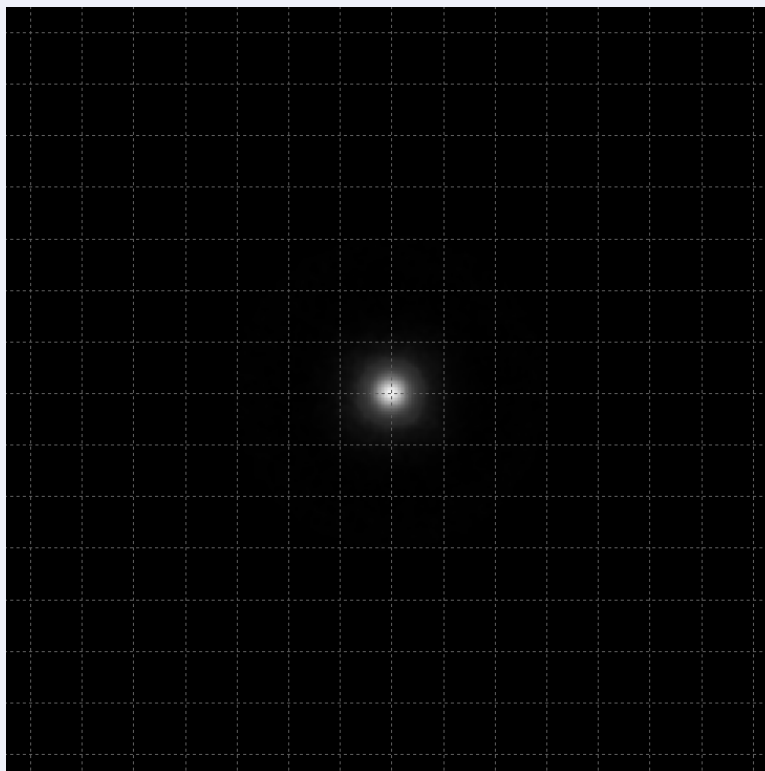
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



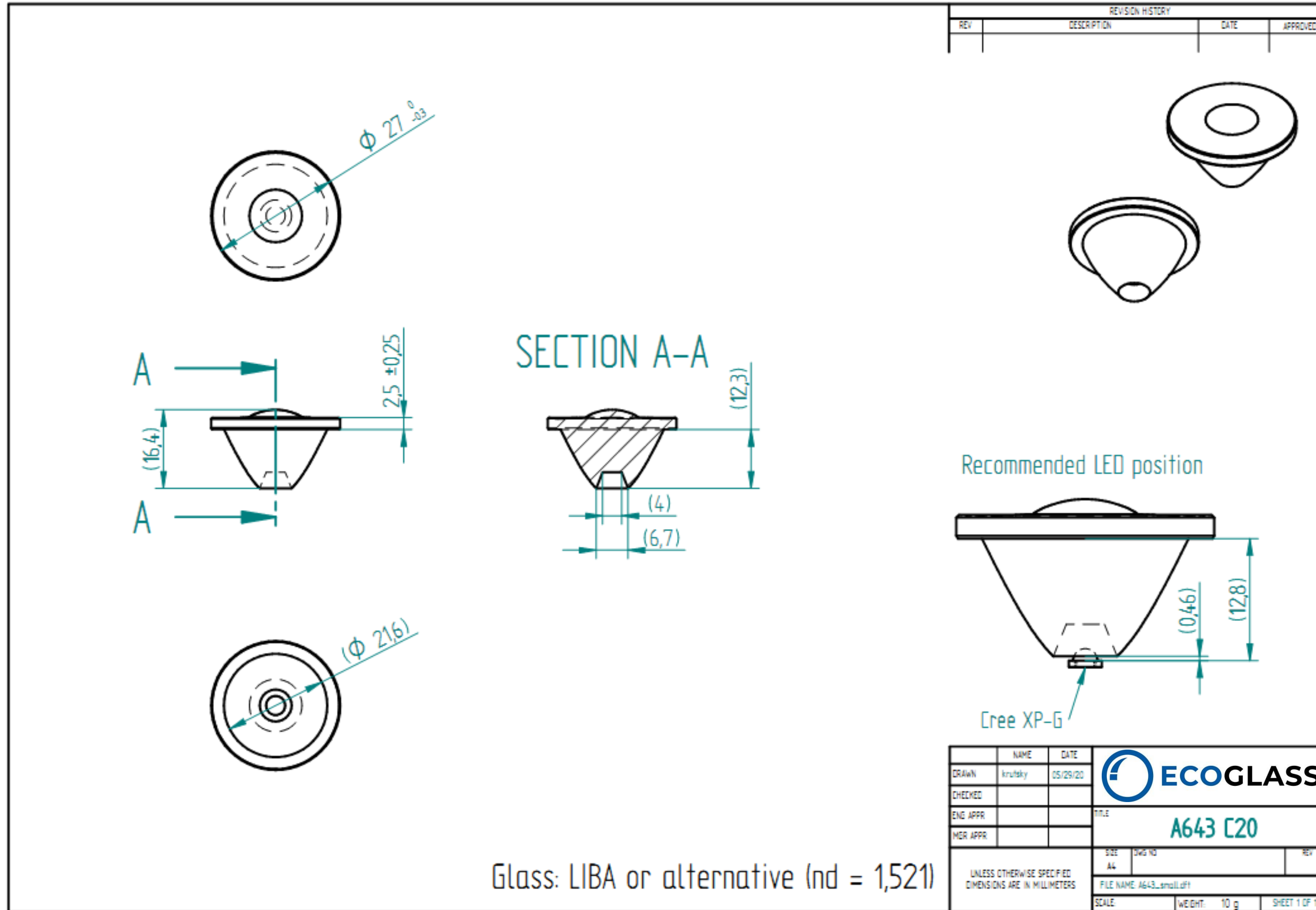
- Projection wall 3x3 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
Efficiency [%]*	88
FWHM Co [°]	7,8
FWHM C90 [°]	7,8

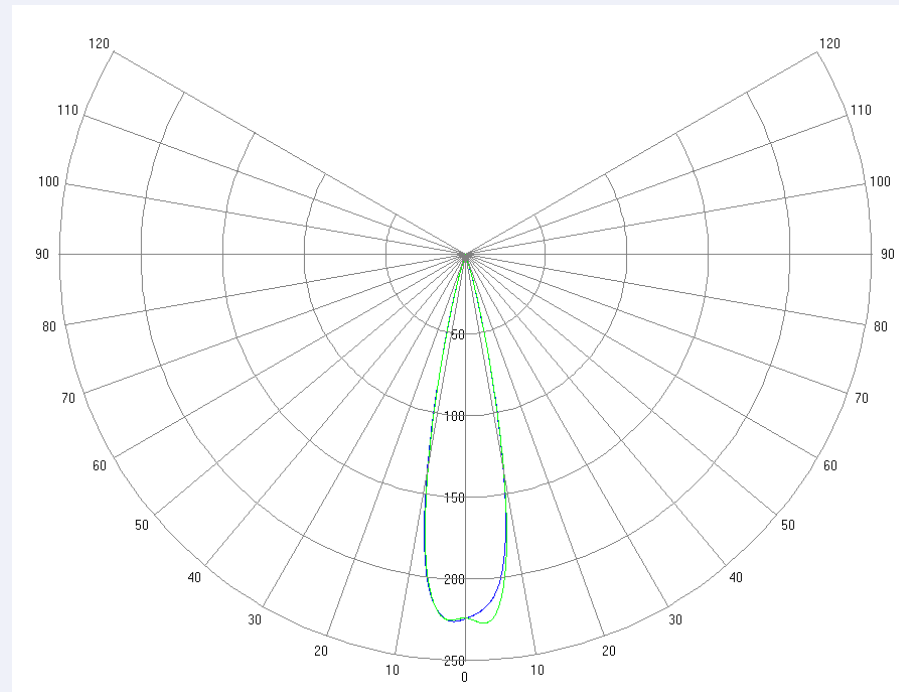
* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

A643 C20

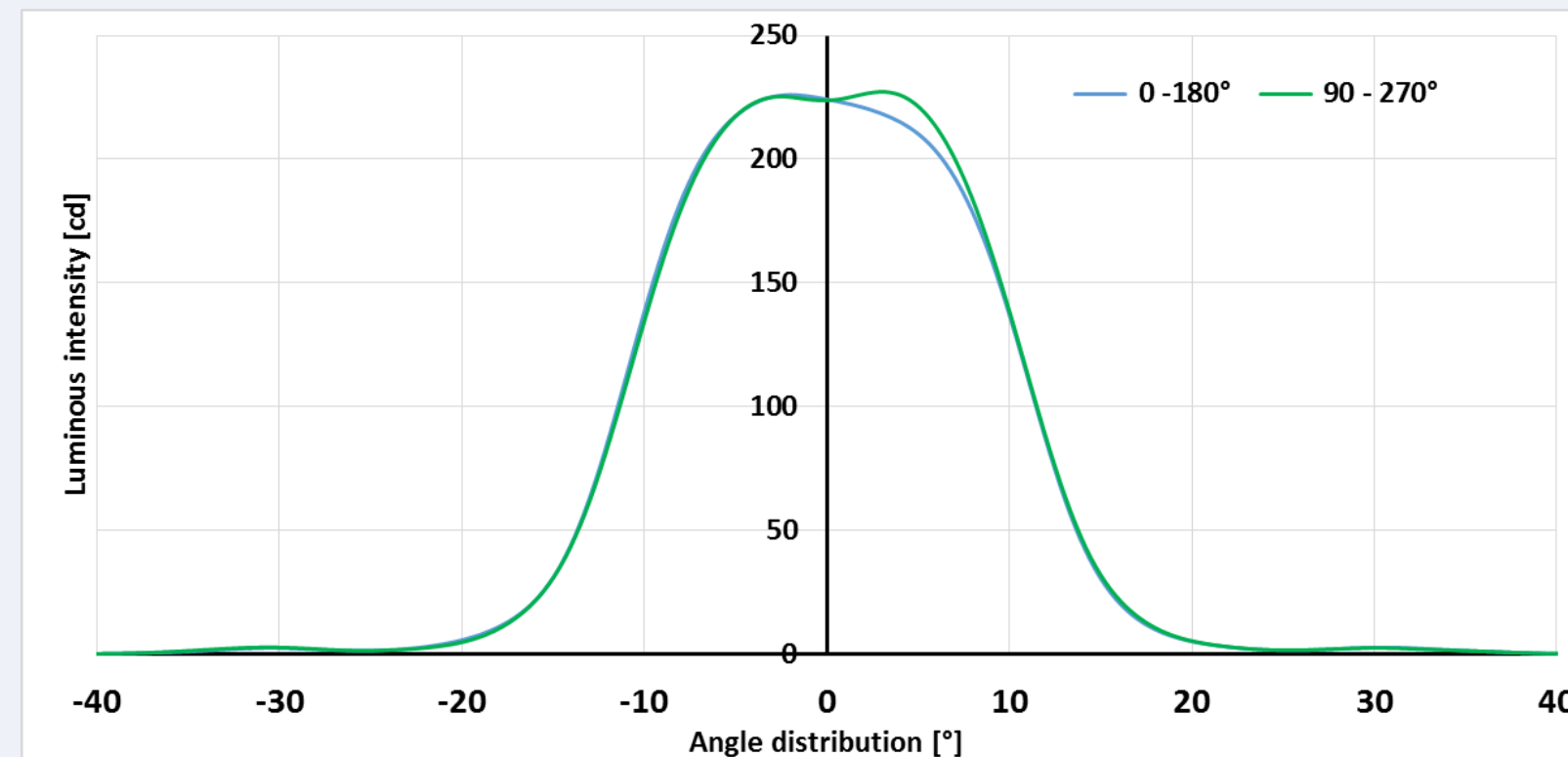


A643 C20– simulation results

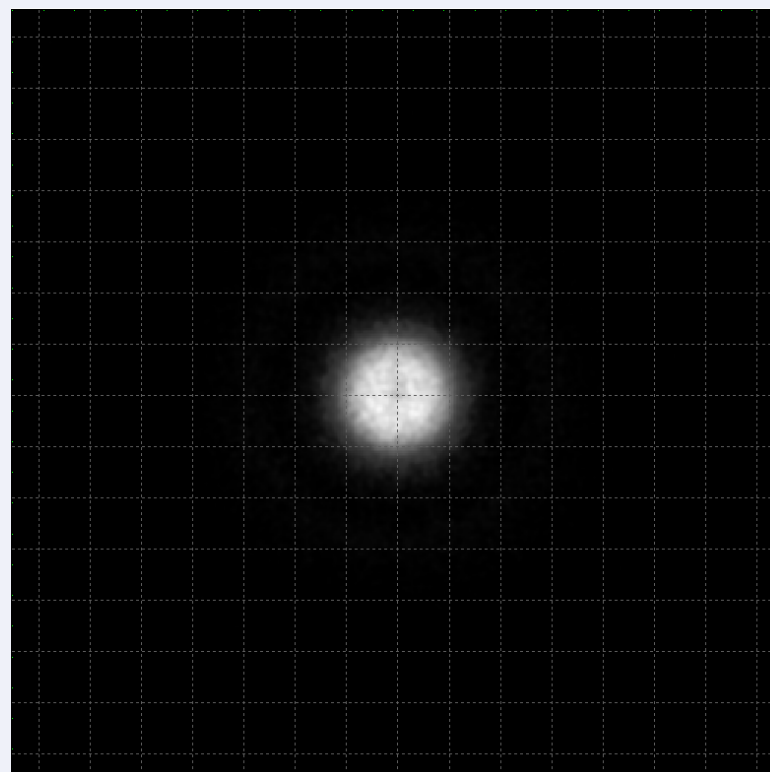
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



- Projection wall 3x3 m at 1m



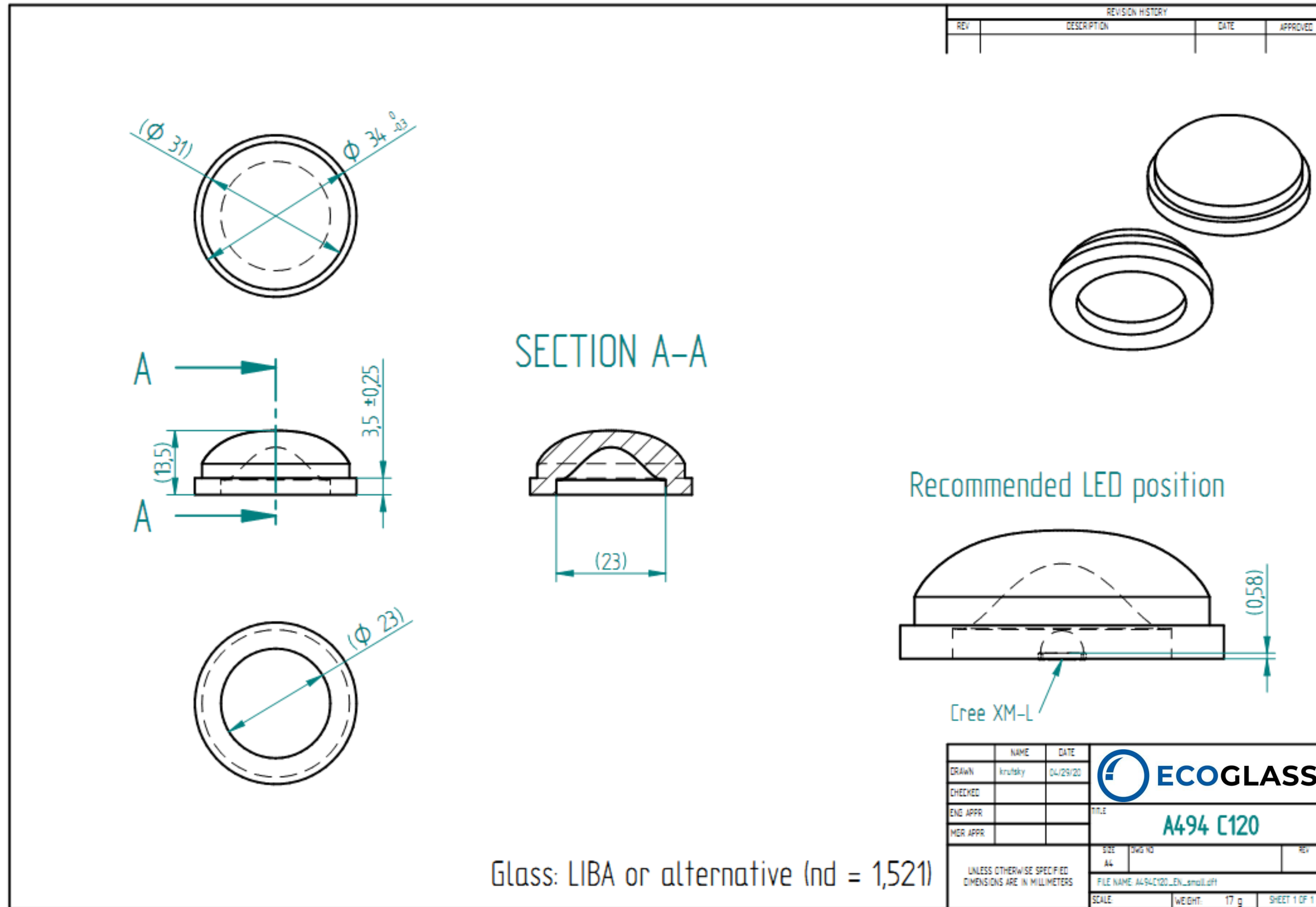
LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
Efficiency [%]*	87
FWHM Co [°]	20
FWHM C90 [°]	20

* The ratio between luminous flux on the projection wall (3x3 m at 1 m) and luminous flux of LED

ECOGLOSS Cavity Lenses					
ECOGLOSS code	Lens type	Beam angles FWHM (°) *		Diameter (mm)	Thickness (mm)
		Co (0°)	C90 (90°)		
A494 C120	Cavity lens	120	120	34,0	13,5
A508 4018	Cavity lens	110	110	40,0	13,5
A569 7624	Cavity lens	20	120	76,0	24,0
A886 6629	Cavity lens	60	60	66	28,7
A892 6624	Cavity lens	90	90	66	25,9
A893 6624	Cavity lens	120	120	66	21,4

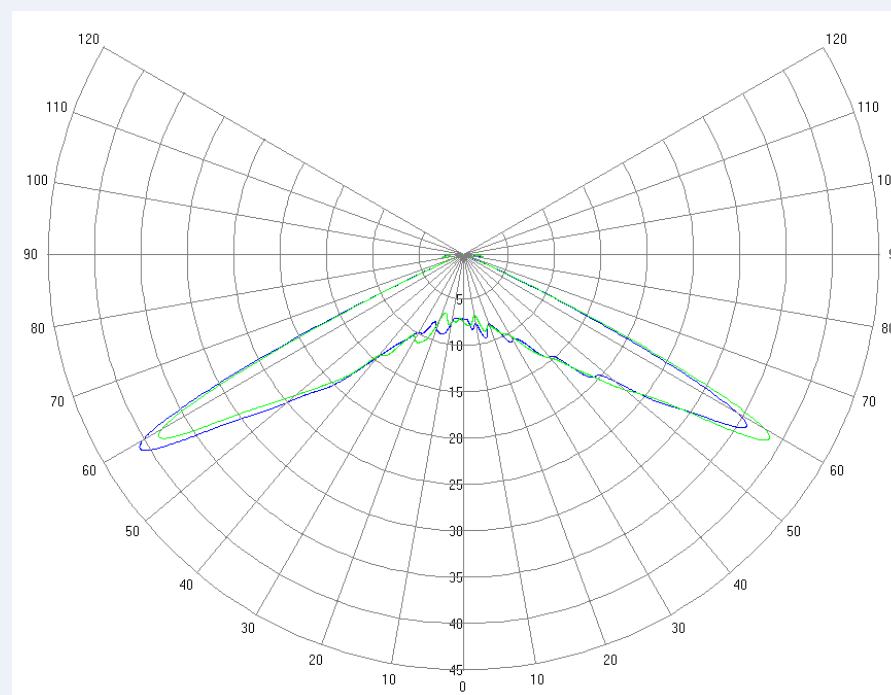
* FWHM = full width at half maximum

A494 C120

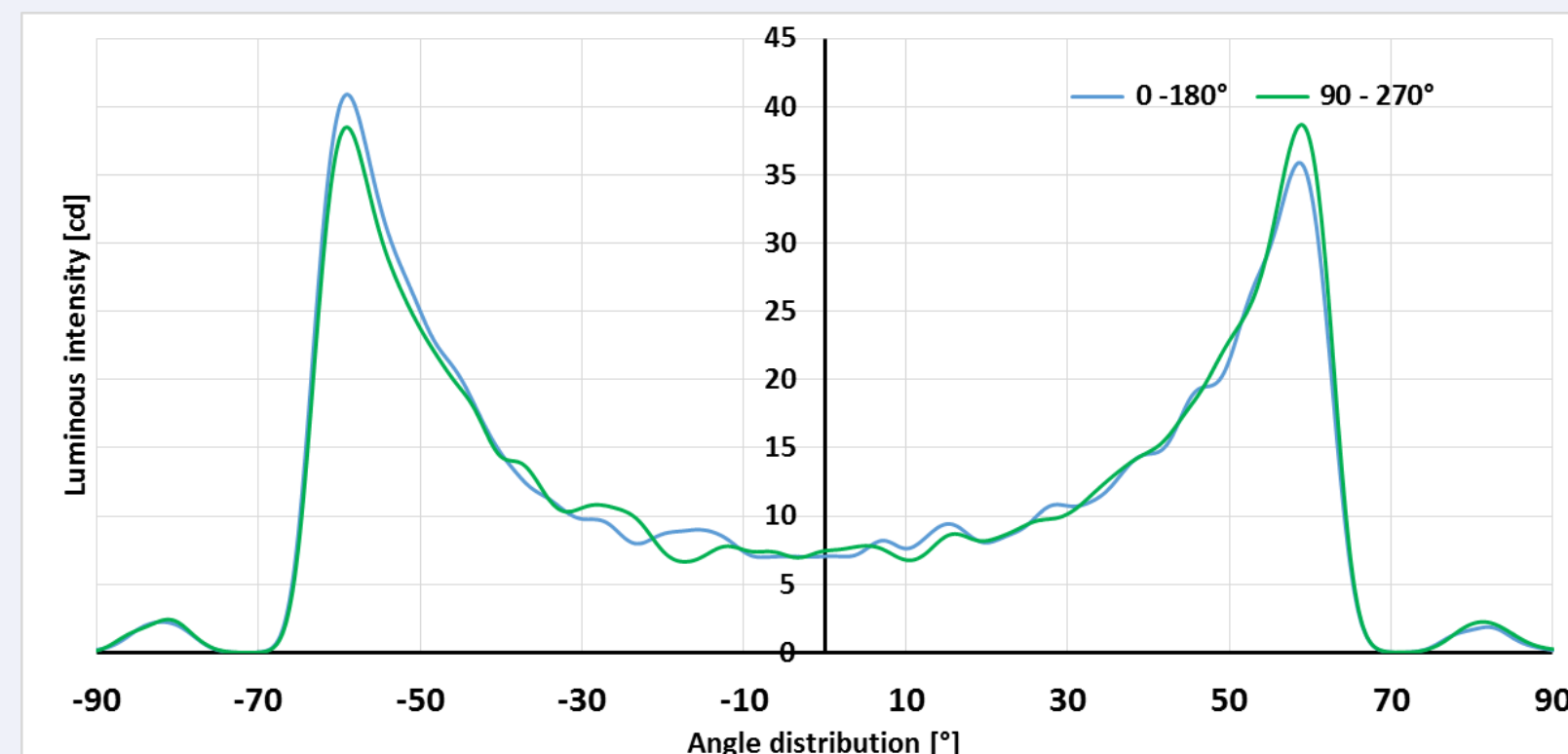


A494 C120– simulation results

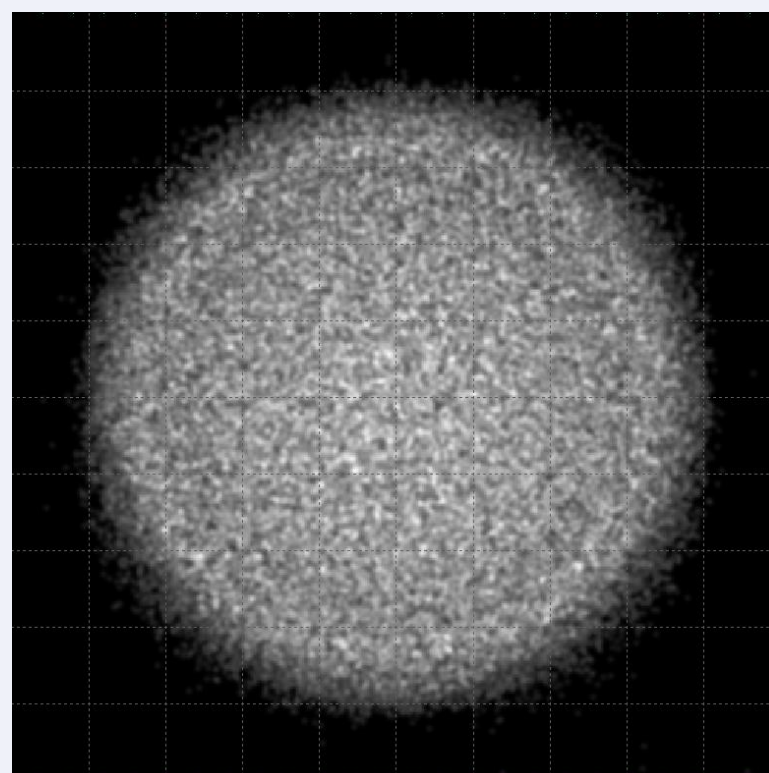
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



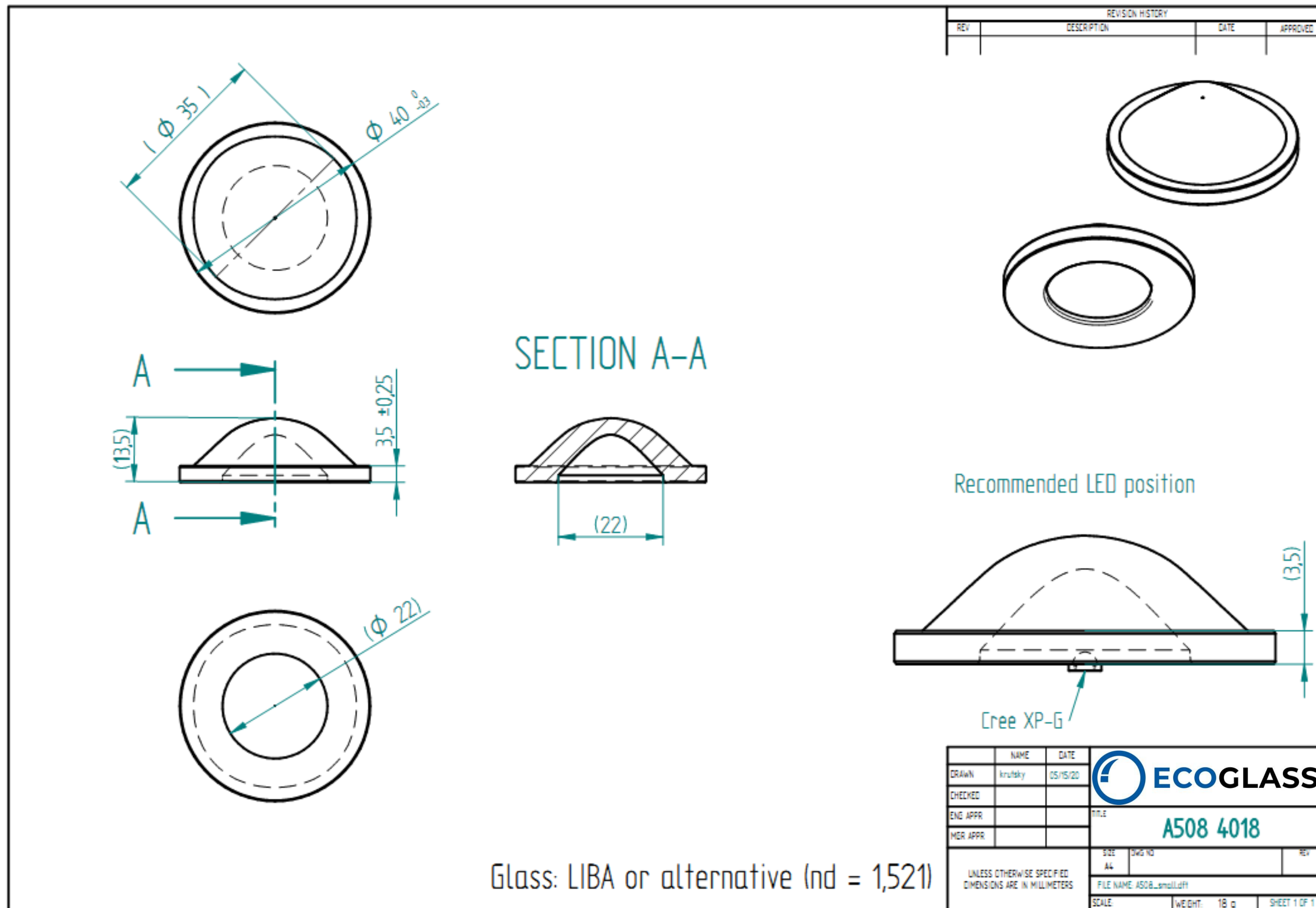
- Projection wall 5x5 m at 1m



LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	79
Efficiency [%]*	89
FWHM Co [°]	120
FWHM C90 [°]	120

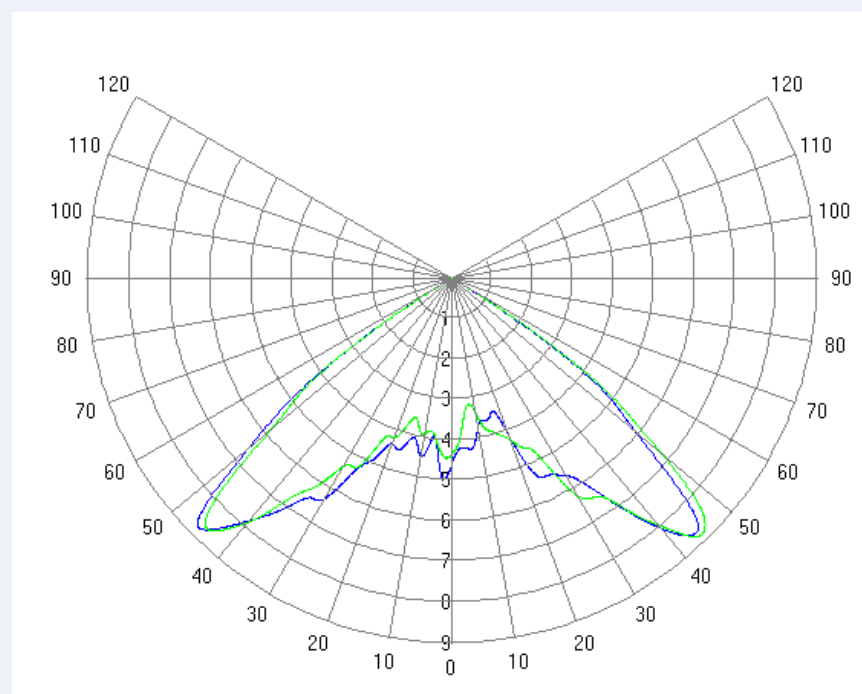
* The ratio between luminous flux on the projection wall (5x5 m at 1 m) and luminous flux of LED

A508 4018

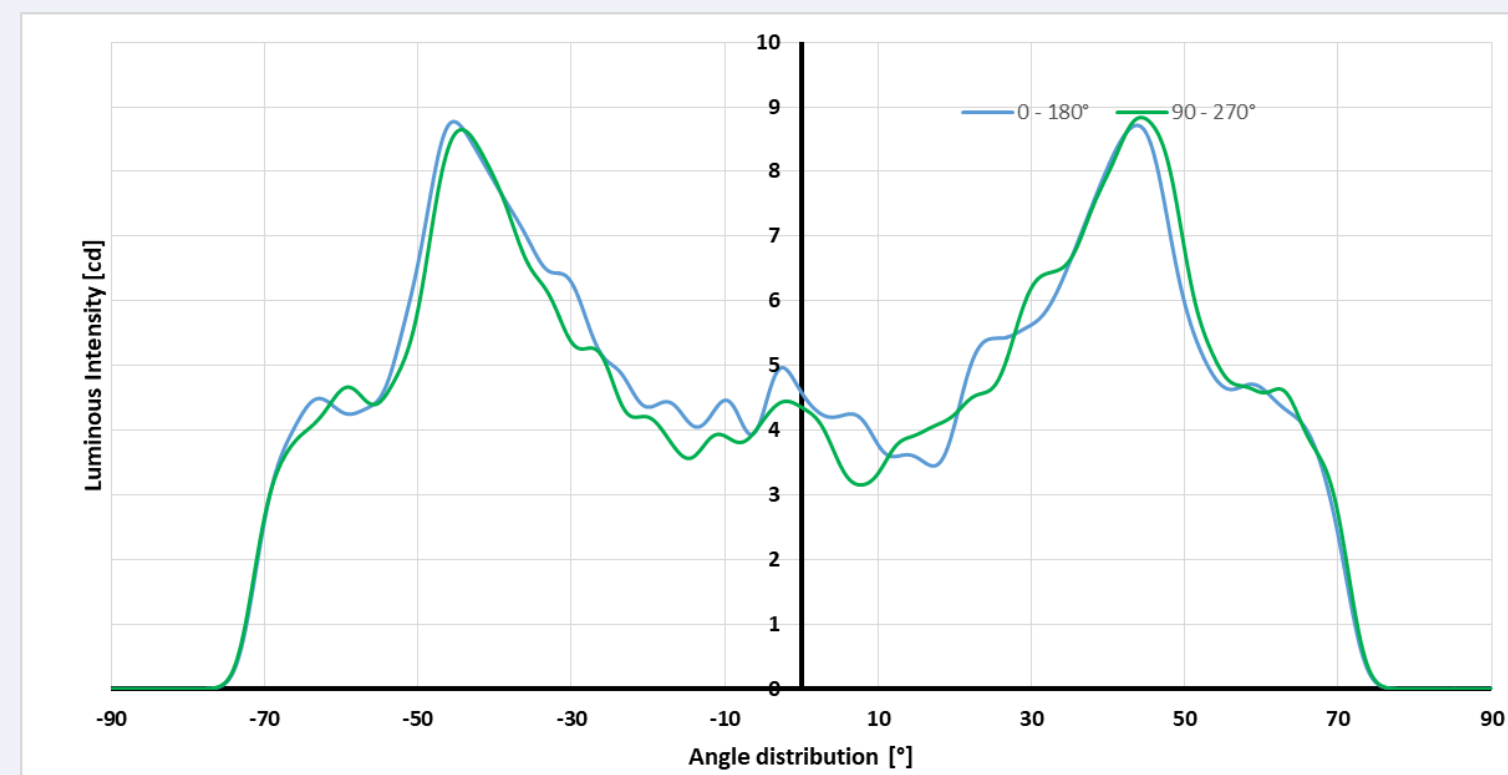


A508 4018– simulation results

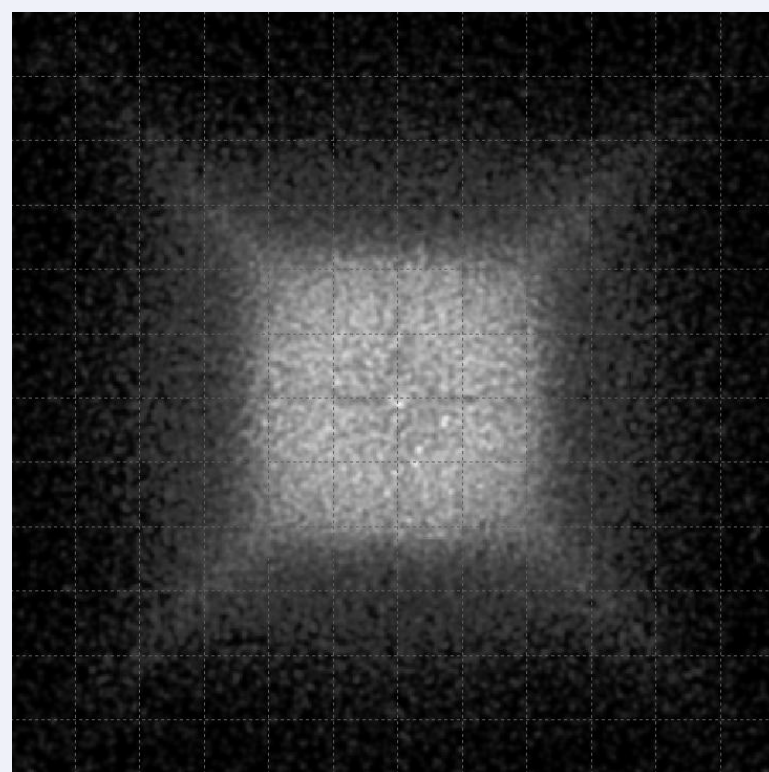
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



- Projection wall 5x5 m at 1m

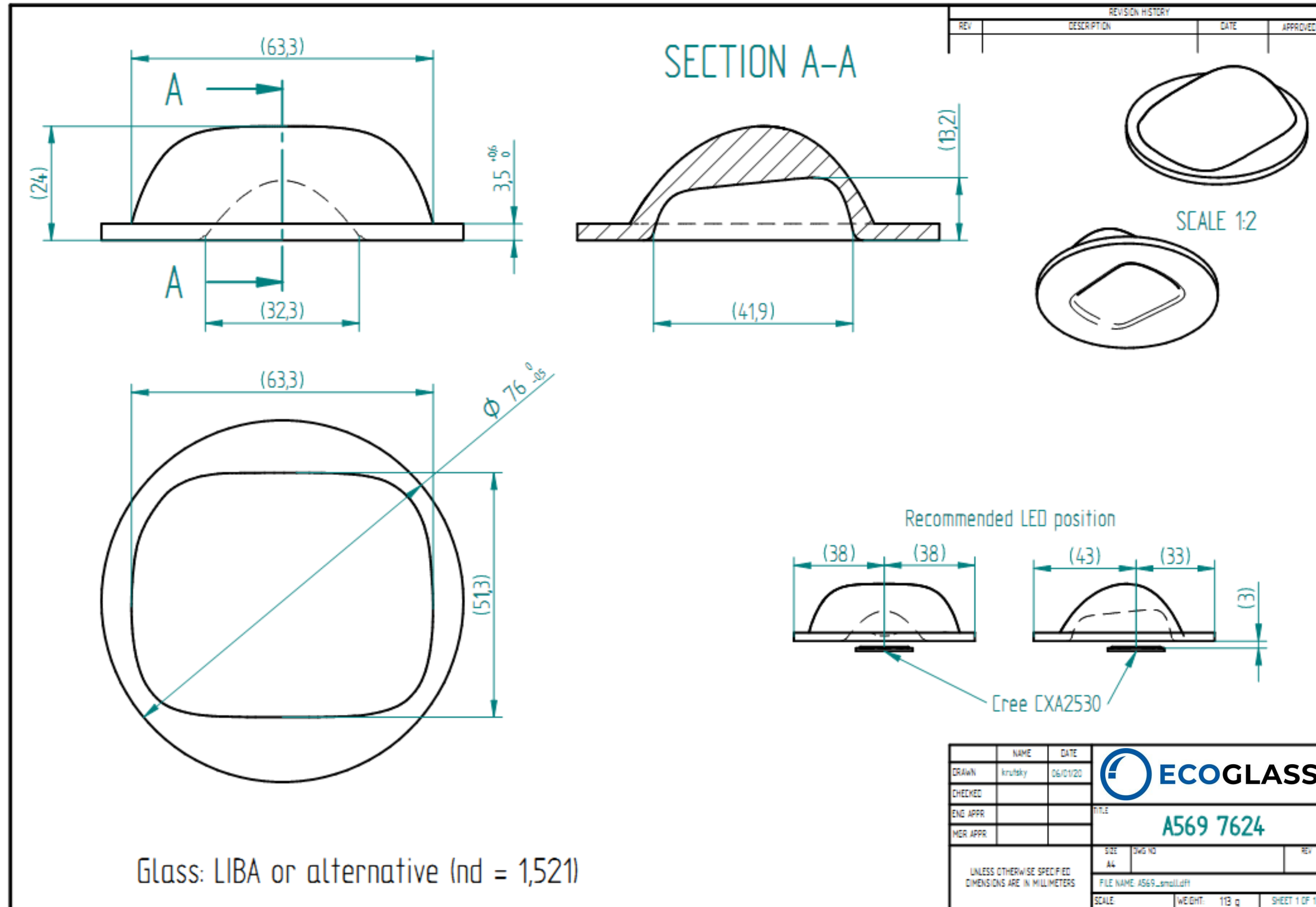


LED used for simulation	Cree XP-G
Luminous flux of LED [lm]	36
Efficiency [%]*	62
FWHM C ₀ [°]	110
FWHM C ₉₀ [°]	110

* The ratio between luminous flux on the projection wall (5x5 m at 1 m) and luminous flux of LED

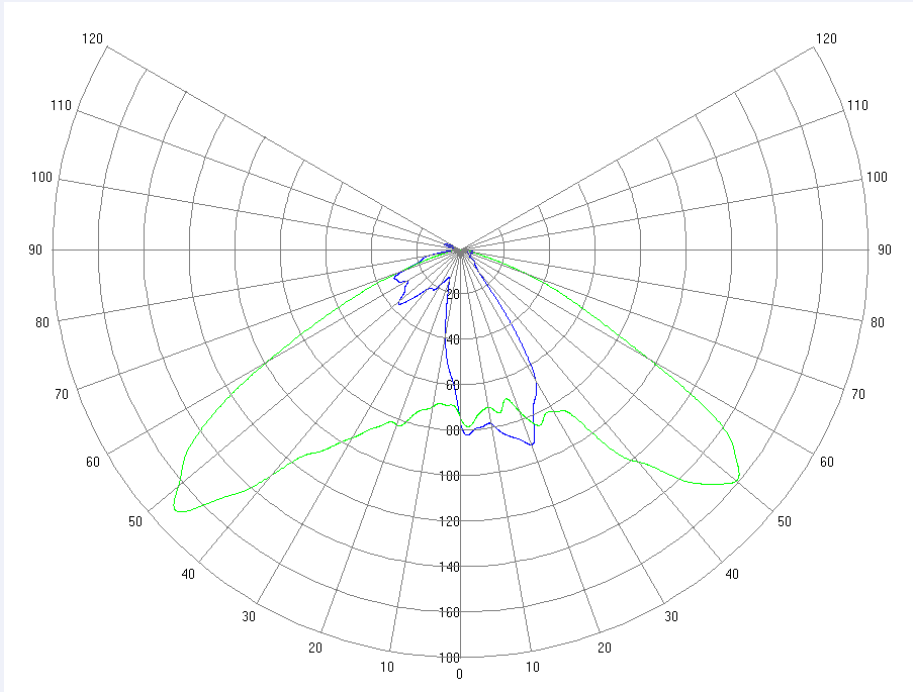
A569 7624

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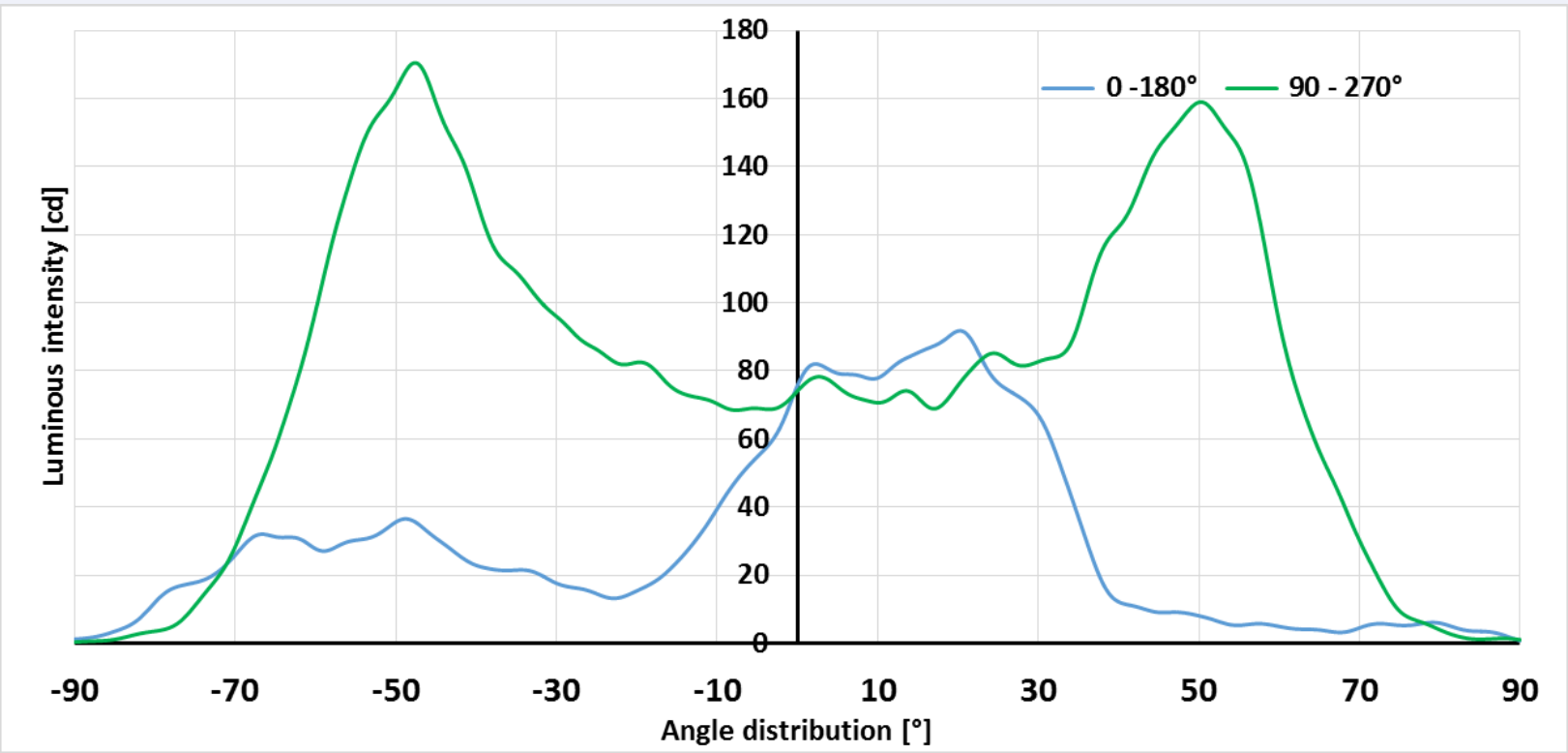


A569 7624– simulation results

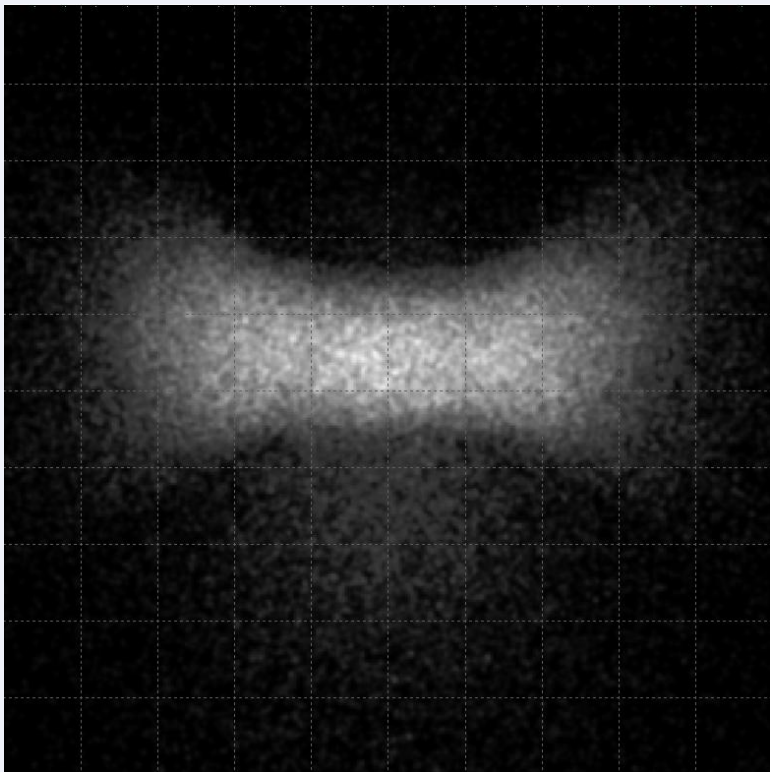
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



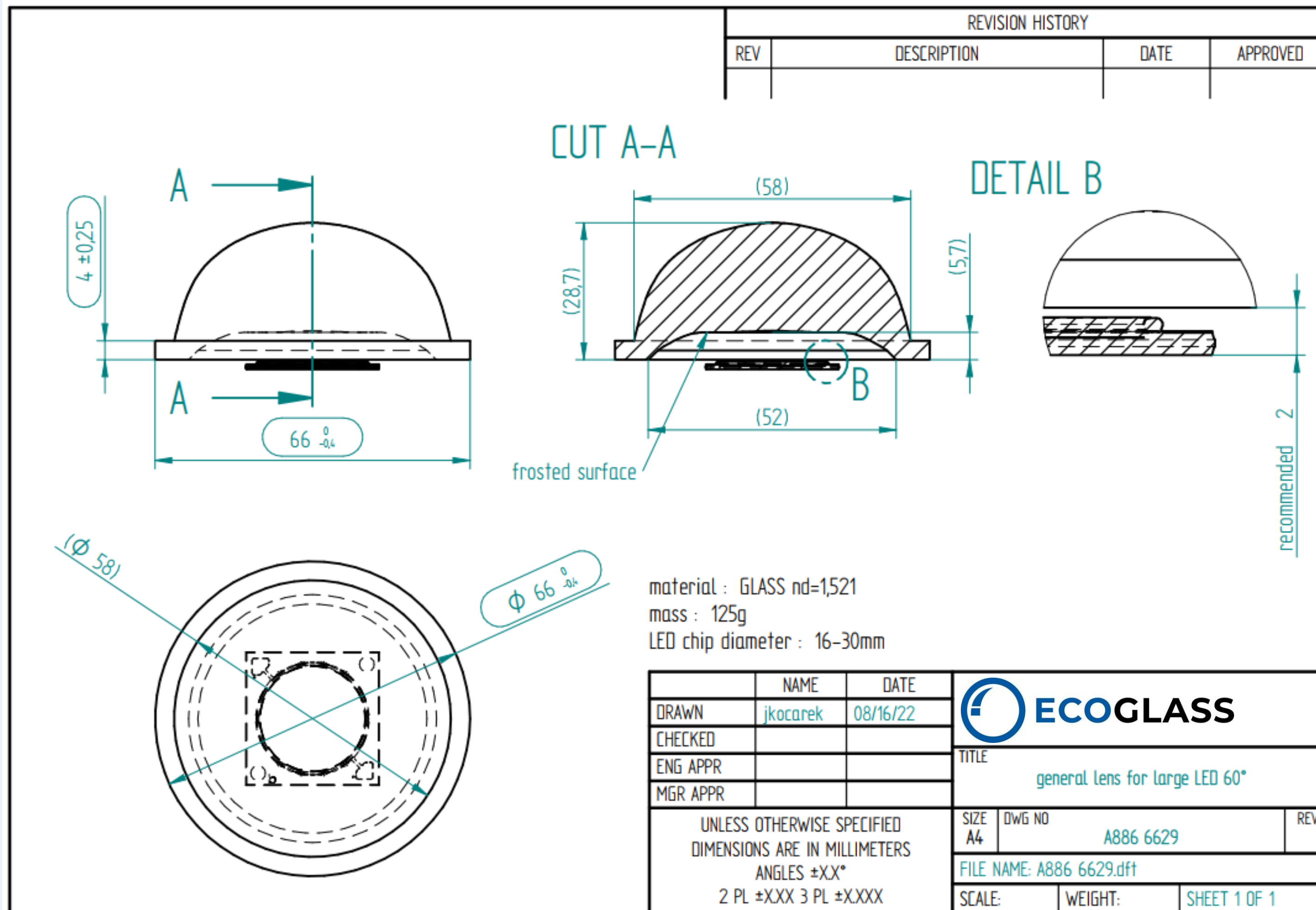
- Projection wall 5x5 m at 1m



LED used for simulation	Cree CXA 2530
Luminous flux of LED [lm]	267
Efficiency [%]*	84
FWHM Co [°]	20
FWHM C90 [°]	120

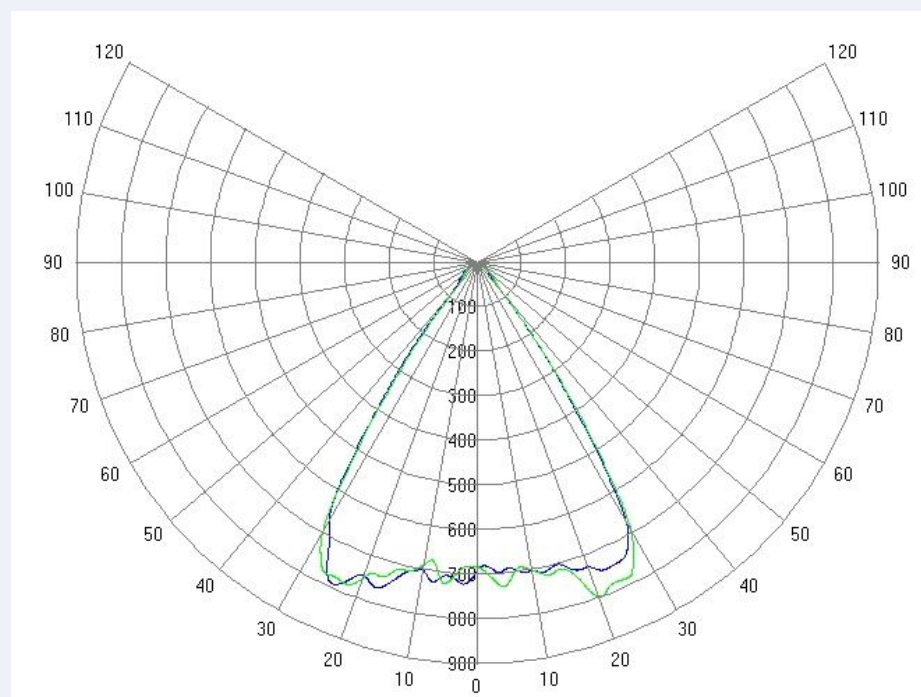
* The ratio between luminous flux on the projection wall (5x5 m at 1 m) and luminous flux of LED

A886 6629

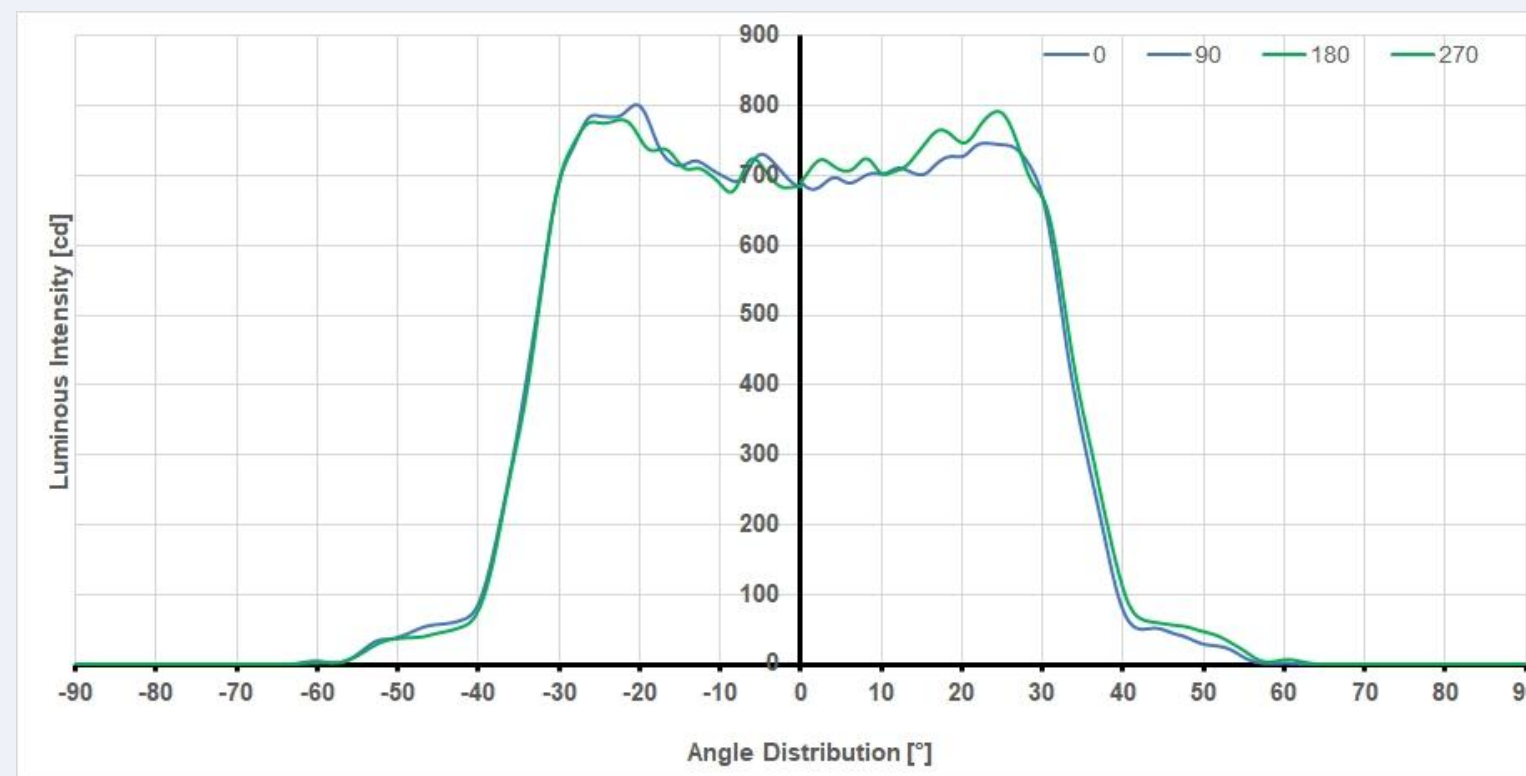


A886 6629– simulation results

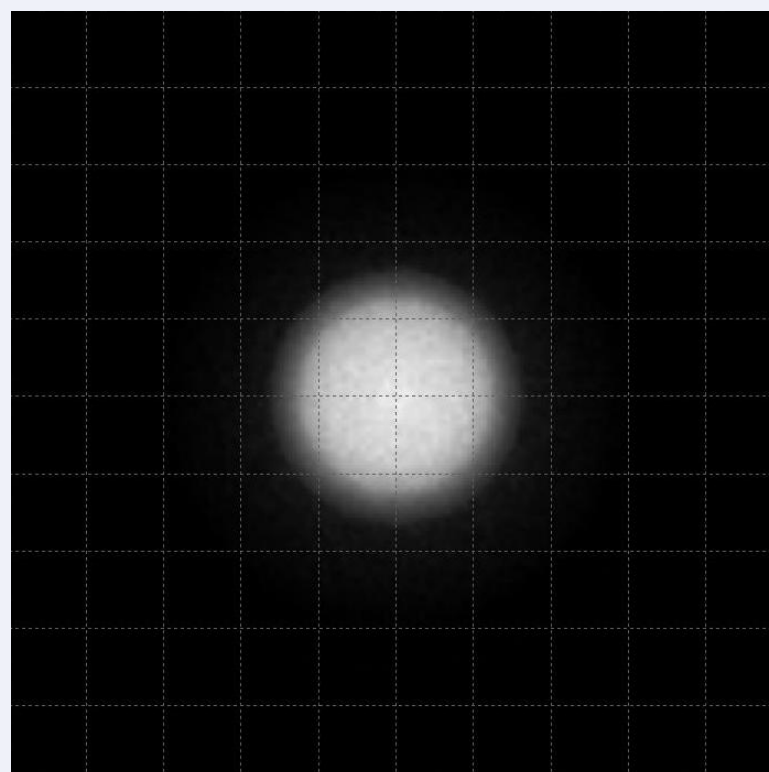
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



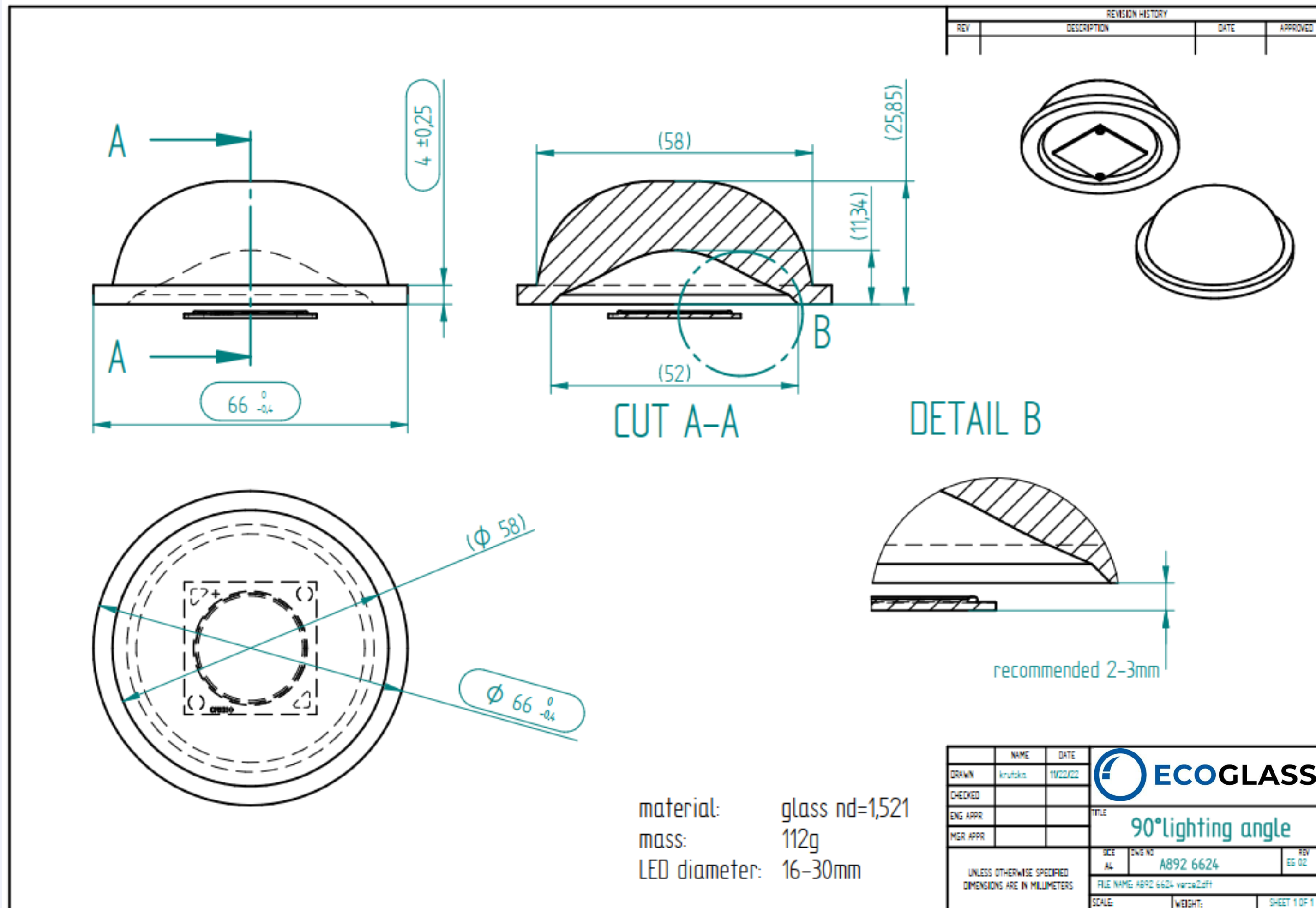
- Projection wall 5x5 m at 1m



LED used for simulation	CXA2530
Luminous flux of LED [lm]	3600
Efficiency [%]*	90
FWHM Co [°]	60
FWHM C90 [°]	60

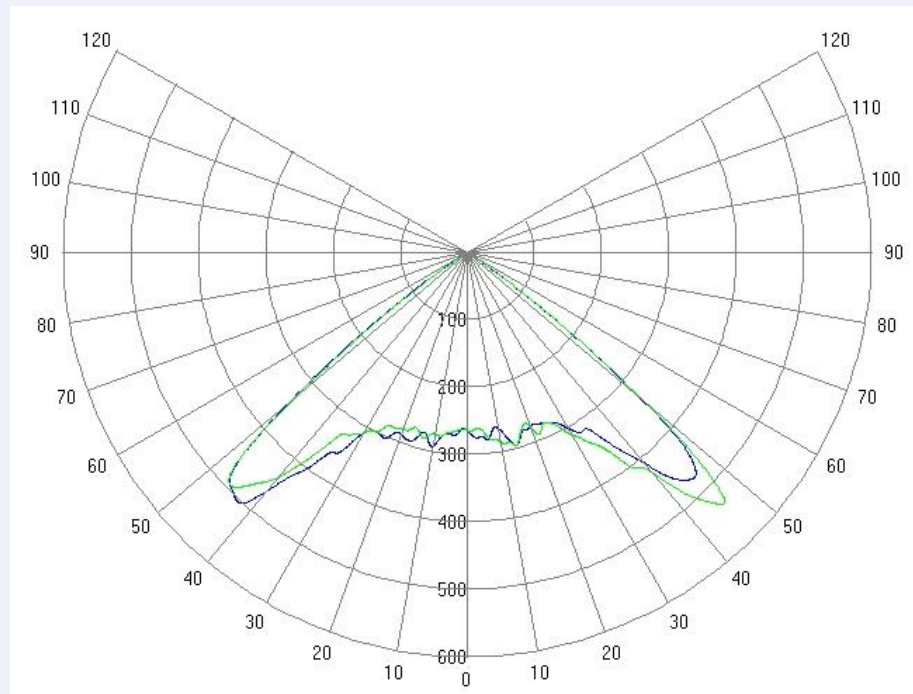
* The ratio between luminous flux on the projection wall (5x5 m at 1 m) and luminous flux of LED

A892 6624

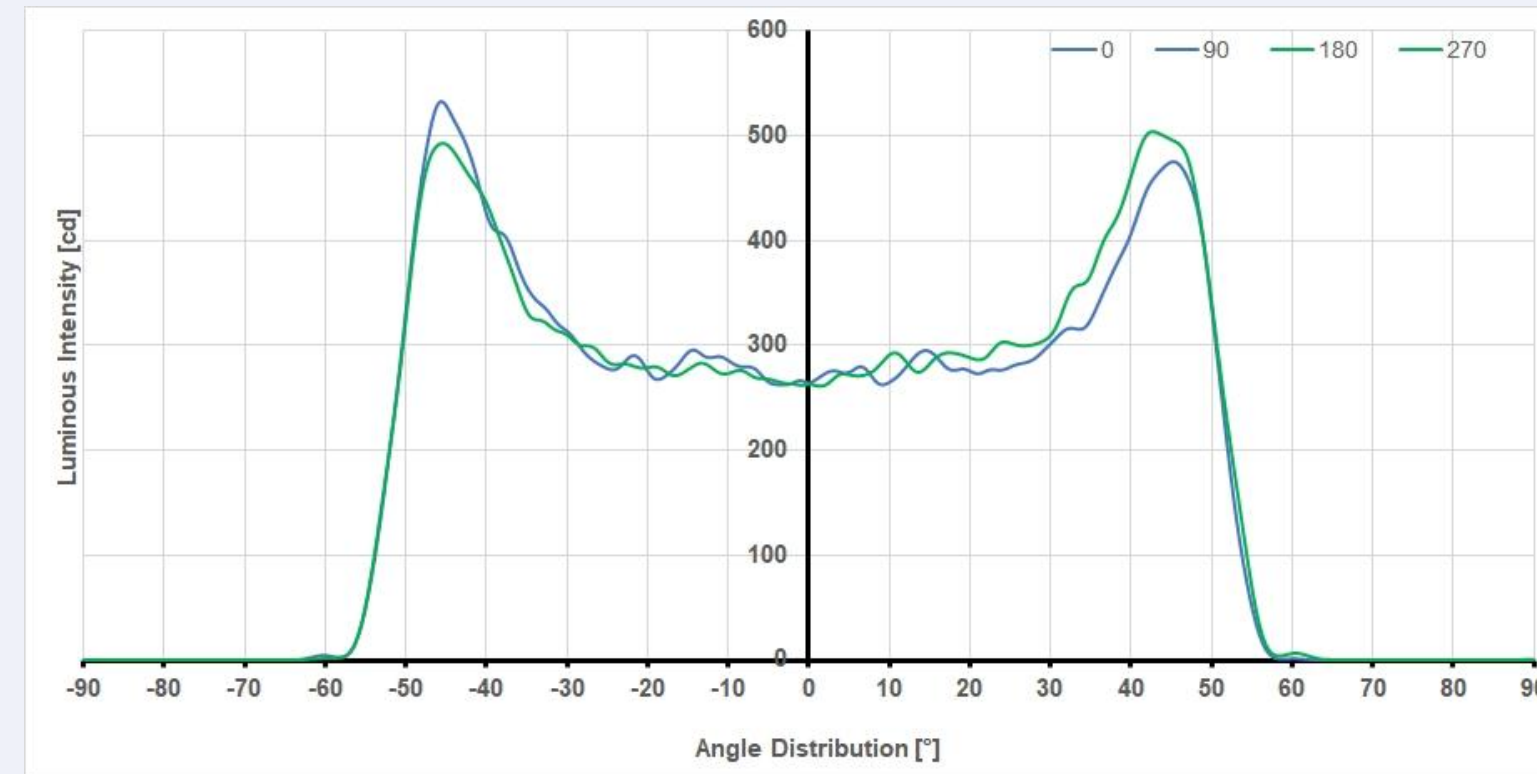


A8g2 6624– simulation results

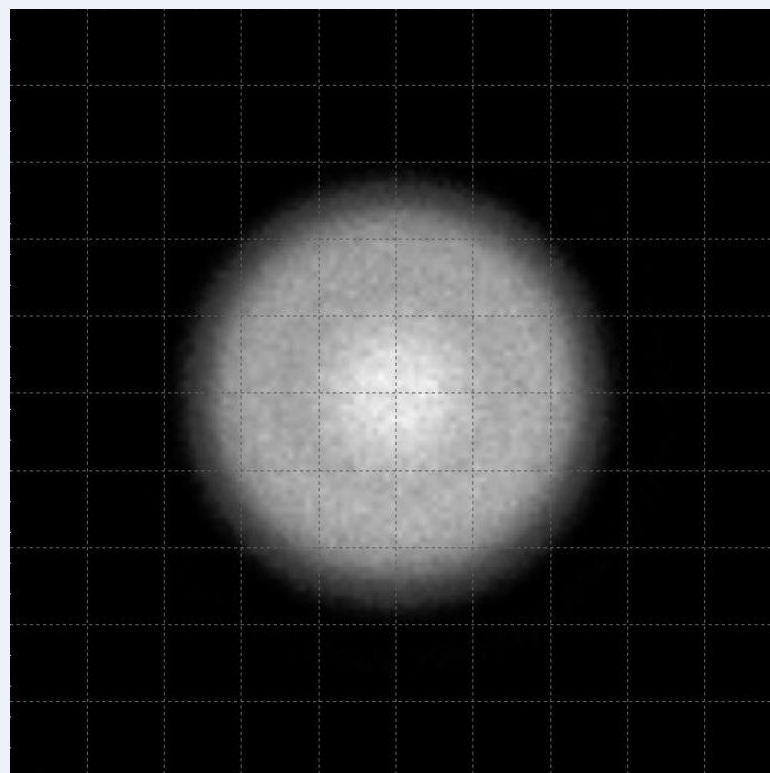
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot

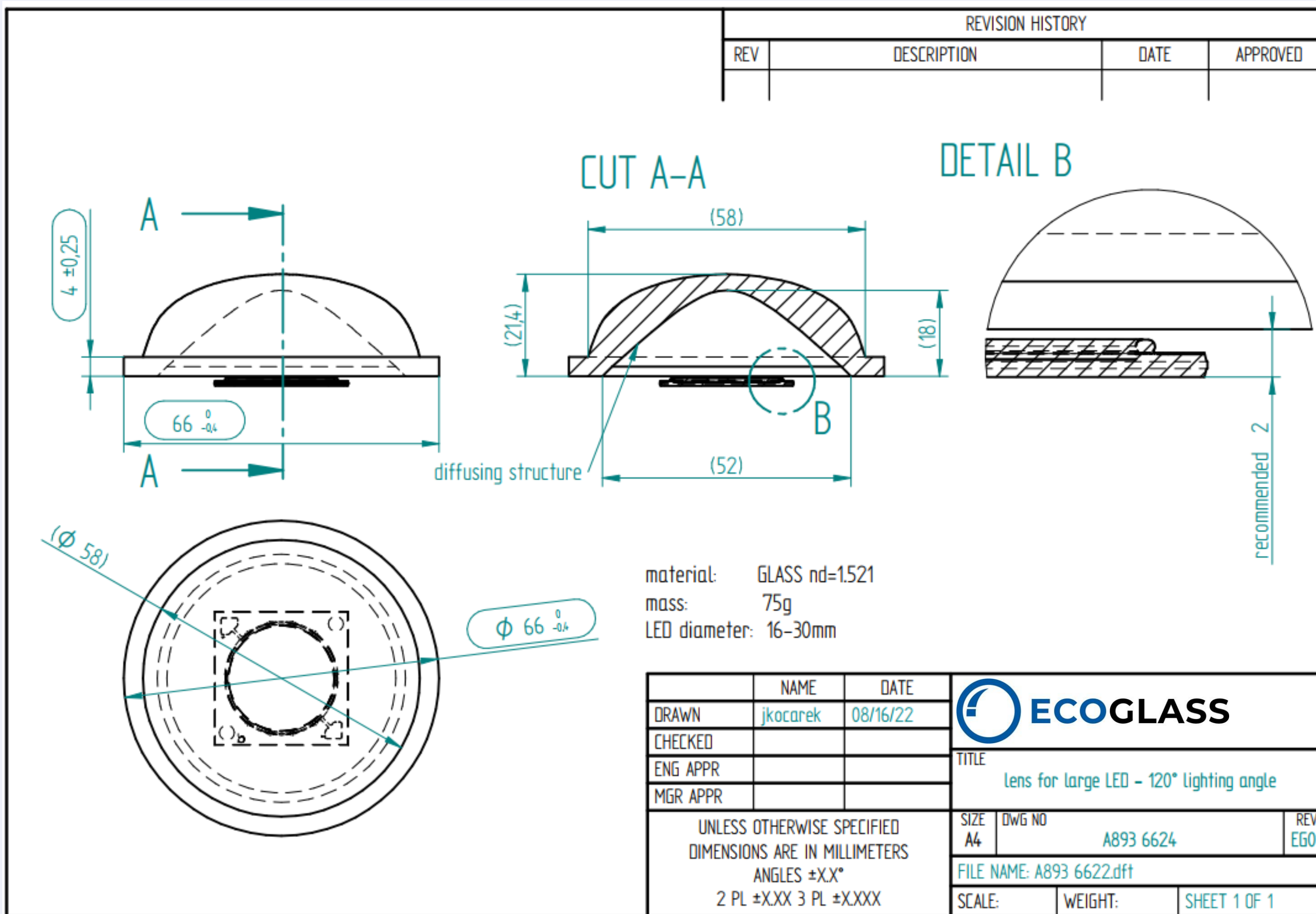


- Projection wall 5x5 m at 1m



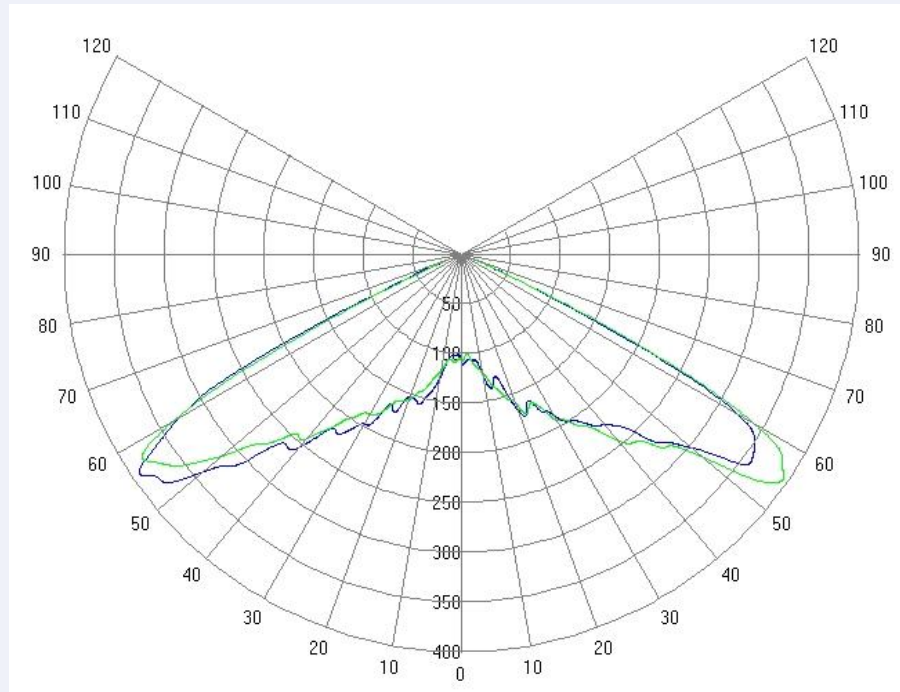
LED used for simulation	CXA2530
Luminous flux of LED [lm]	3600
Efficiency [%]*	90
FWHM Co [°]	90
FWHM C90 [°]	90

* The ratio between luminous flux on the projection wall (5x5 m at 1 m) and luminous flux of LED

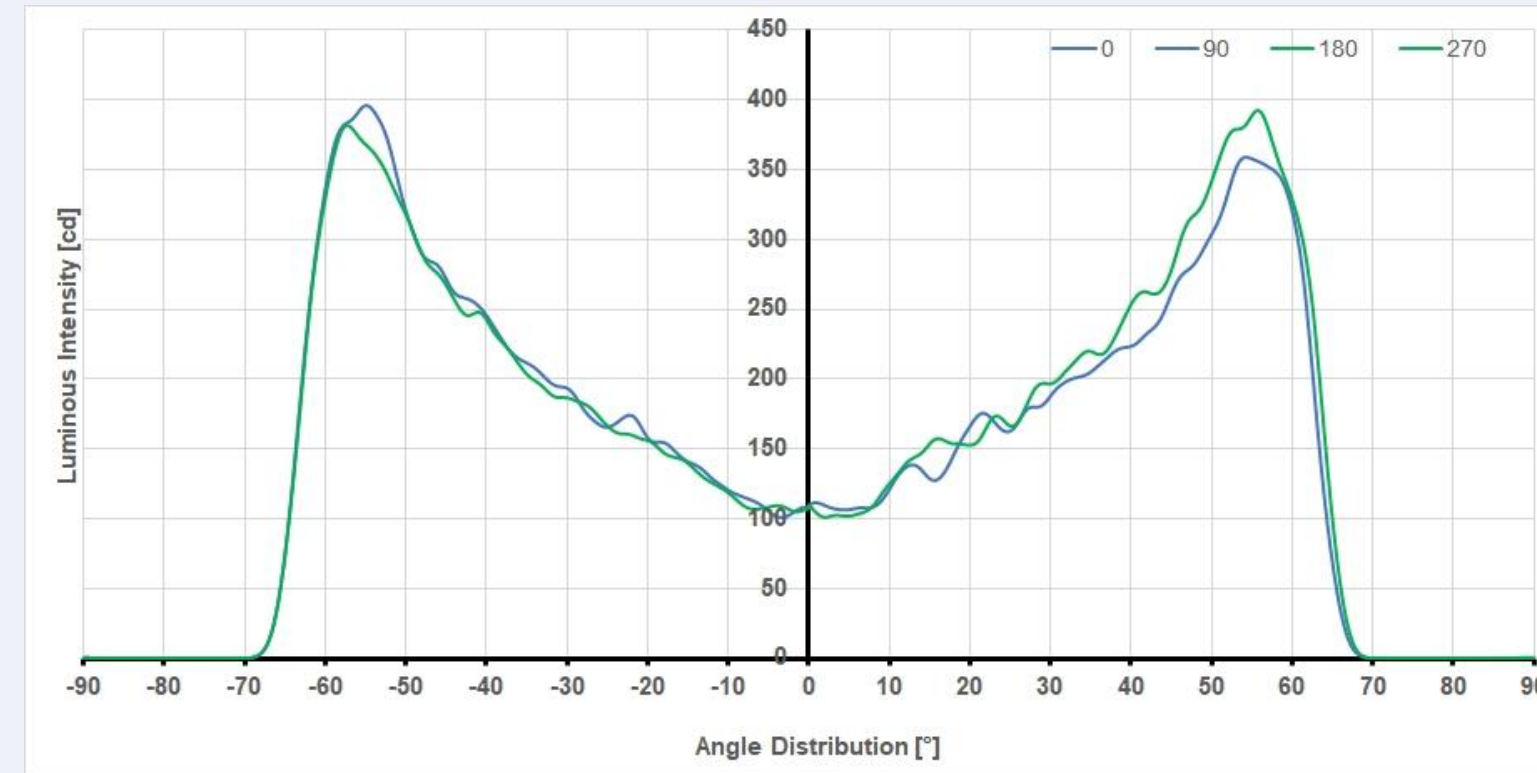


A893 6624– simulation results

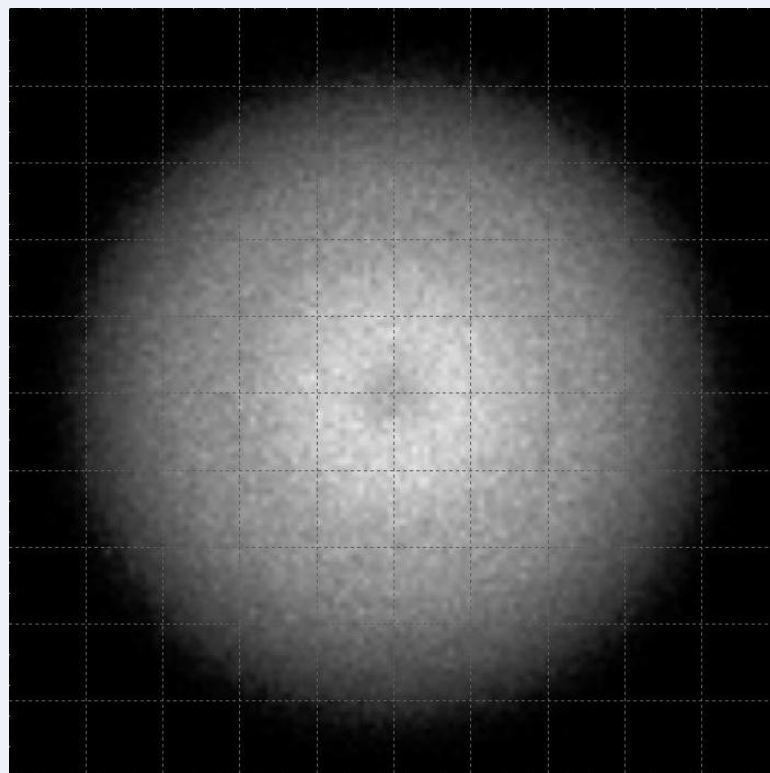
- Polar Candela Distribution Plot



- Rectangular Candela Distribution Plot



- Projection wall 5x5 m at 1m



LED used for simulation	CXA2530
Luminous flux of LED [lm]	3600
Efficiency [%]*	90
FWHM Co [°]	120
FWHM C90 [°]	120

* The ratio between luminous flux on the projection wall (5x5 m at 1 m) and luminous flux of LED



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