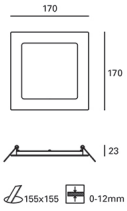
Instruções de montagem
3D File
Dados fotométricos
Revit

Easy Square 170mm

Leds C4 Team

TC-0154-BLA

Downlight IP23 Easy Square 170mm LED 10W 3000K Branco 874lm



155x155 0-12

CARACTERÍSTICAS TÉCNICAS

IP23

Potência (W) : 10W

Consumo total da luminária (W) : 12.2W

Lúmenes reais : 874

Lm/W reais : 72

Temperatura da cor : Branco quente - 3000K

Ângulo Óticas / Refletor : HORIZONTAL 115º

Material da estrutura : Alumínio

Acabamento estrutura : Branco

Material do difusor : Acrílico

Acabamento difusor : Opala

Vida útil : 36.000h L70B30

Equipamento incluído : Sim, eletrónico

Tensão / Frequência : 100-240V/50-60Hz

Garantia : 5 Anos

Temperatura máx. : 25ºC

Eficiência energética : LED A++

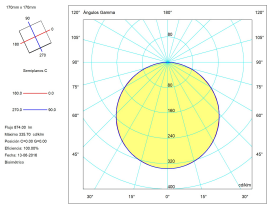
CARACTERÍSTICAS LUMINOTÉCNICAS

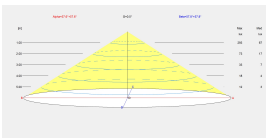
Fonte de luz: LED

CRI: 80

MacAdam steps: 3

Risco fotobiológico: RG1





LOGÍSTICA

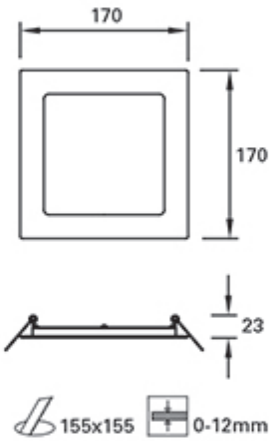
Peso líquido (kg): 0.31

Peso embalado (kg): 0.4

Embalagem: 180mm x 45mm x 200mm

40 Un

APLICAÇÃO DA LUMINÁRIA



Luminaire
Code TC-0154-BLA
Name Downlight FORLIGHT 10W 3000K
Measurem.
Code TC-0154-BLA
Name Downlight FORLIGHT 10W 3000K

Luminaire Flux	873.99 lm	Luminaire Power	12.00 W	Efficacy	72.83 lm/W	Efficiency	100.00%
Lamps Flux	874.00 lm	Maximum value	335.70 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Rectangular Luminaire	Length	170 mm	Width	170 mm	Height	3 mm
Rectangular Luminous Area	Length	125 mm	Width	125 mm	Height	0 mm

Horizontal Luminous Area	0.015625 m2	Emitting area on Plane 180°	0.000000 m2
Emitting area on Plane 0°	0.000000 m2	Emitting area on Plane 270°	0.000000 m2
Emitting area on Plane 90°	0.000000 m2	Glare area at 76°	0.003780 m2

Coordinate system	CG	Symmetry Type	Double Symmetrical
Date	13-06-2016	Maximum Gamma Angle	90
Measurement Distance	0.00	Measurement Flux	874.00 lm

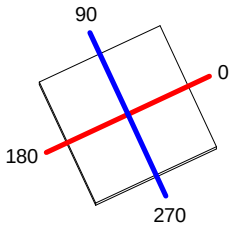
Operator	Asselum T3	Source Voltage [V]	
Temperature	25.00 °C	Source current [A]	
Humidity	60.00 %	Photocell	
Notes			

Luminaire Lamps

Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
	TC-0154-BLA	TC-0154-BLA - 12.00 W	874.00	12.00	1

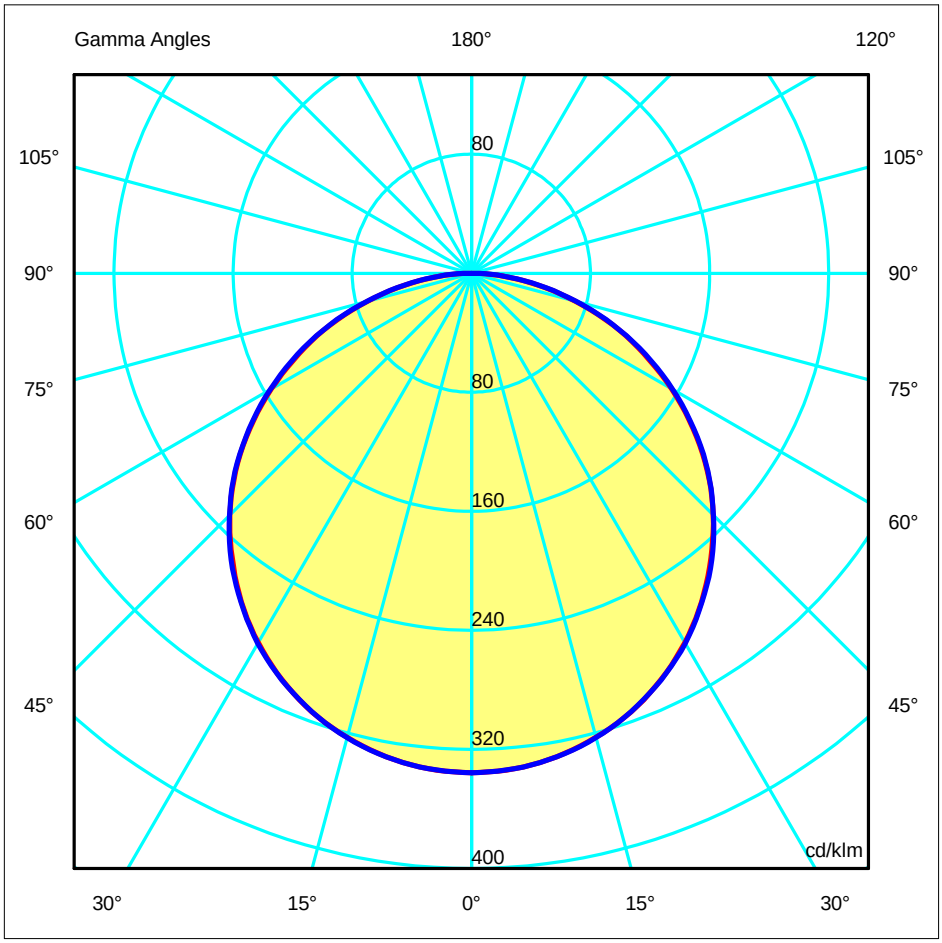
C.I.E.	46 77 95 100 100	D DIN 5040	A30
F UTE	1.00 E	B NBN	BZ 5

170mm x 170mm



C Halfplanes

180.0 — 0.0
270.0 — 90.0



ULOR	0.00 %
DLOR	100.00 %
RN	0.00 %

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Luminous Intensity Table cd/klm **Table 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	335.70	335.70	335.70	335.70	335.70	335.70	335.70
G 5.0	334.14	334.31	334.22	334.16	334.28	334.29	334.10
G 10.0	329.82	330.07	329.99	329.96	330.08	330.14	329.90
G 15.0	322.71	323.22	323.09	323.08	323.19	323.31	323.06
G 20.0	313.54	313.61	313.44	313.59	313.47	313.70	313.37
G 25.0	301.22	301.70	301.42	301.46	301.44	301.78	301.37
G 30.0	286.48	287.04	286.82	287.22	287.12	287.41	287.07
G 35.0	269.37	270.42	269.98	270.30	270.38	270.59	269.83
G 40.0	249.98	251.21	250.75	251.43	251.18	251.47	251.12
G 45.0	229.54	230.08	229.71	230.21	229.66	230.44	229.79
G 50.0	206.73	207.00	206.64	207.22	206.77	207.43	207.34
G 55.0	181.56	182.00	181.70	182.15	182.44	182.68	182.31
G 60.0	155.04	155.99	155.59	156.16	156.14	156.77	156.12
G 65.0	127.57	128.39	128.29	128.64	128.55	129.09	128.92
G 70.0	100.74	100.01	99.99	100.51	100.44	101.02	101.23
G 75.0	71.81	72.71	72.25	72.55	72.77	73.79	73.03
G 80.0	45.14	45.52	45.16	46.23	45.88	46.60	45.89
G 85.0	20.97	20.89	20.95	21.46	21.66	21.87	21.81
G 90.0	1.64	1.62	1.73	1.92	2.09	2.35	2.34

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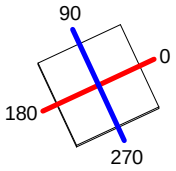
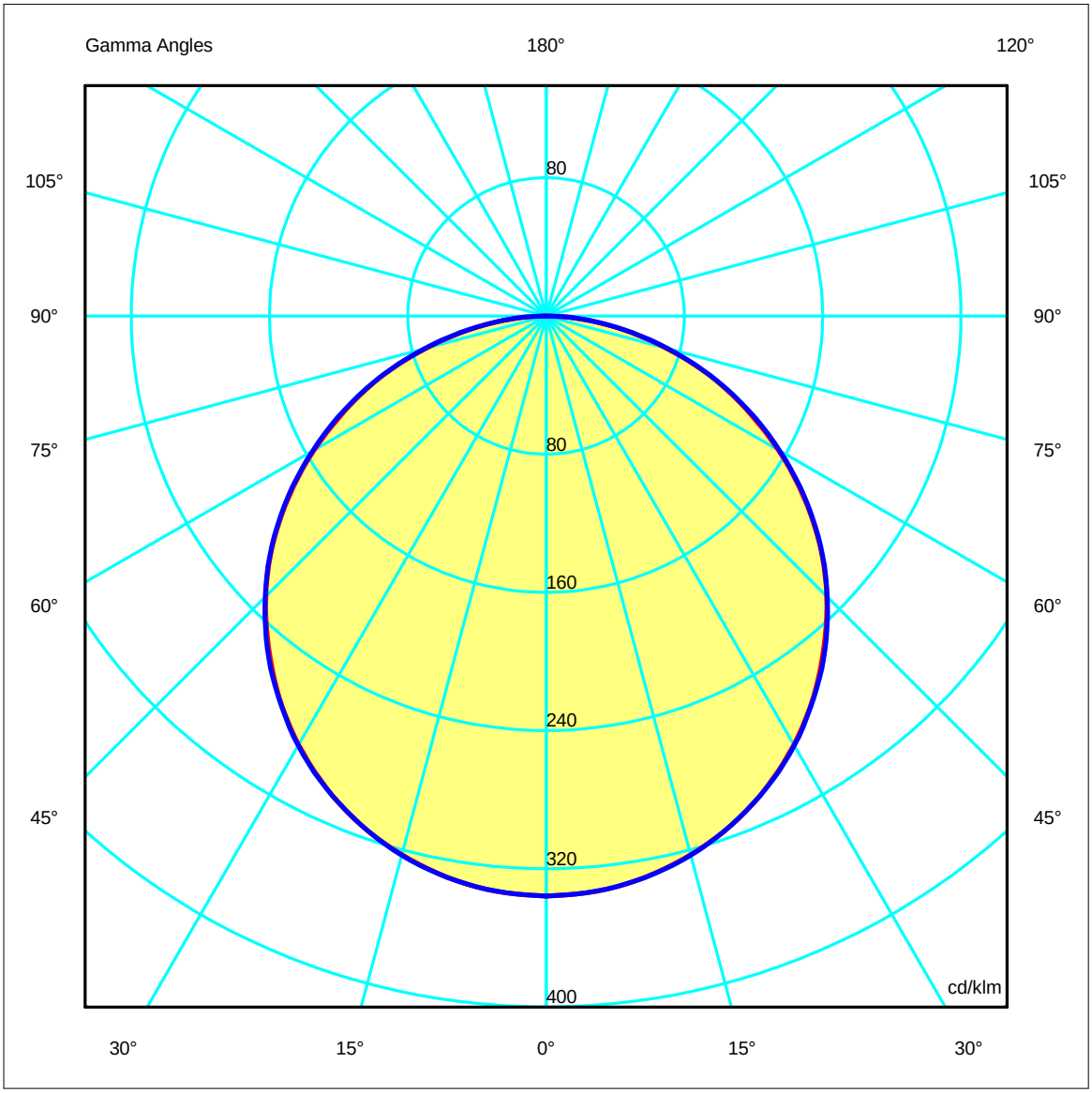
Lamps Flux	874.00 lm	Maximum value	335.70 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

170mm x 170mm



C Halfplanes



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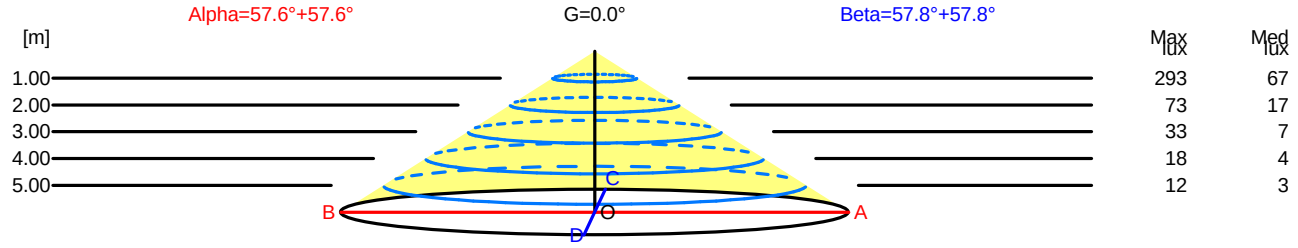
Lamps Flux	874.00 lm	Maximum value	335.70 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Width at 50.00 % of Max Intensity

H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	1.58	3.15	4.73	6.31	7.88	OC	1.59	3.17	4.76	6.35	7.93
OB	1.58	3.15	4.73	6.31	7.88	OD	1.59	3.17	4.76	6.35	7.93

Luminous Intensities [cd/klm]

	0	5	15	25	35	45	55	65	75	85
OA	293.40	292.03	282.05	263.27	235.43	200.61	158.69	111.49	62.76	18.33
OB	293.40	292.03	282.05	263.27	235.43	200.61	158.69	111.49	62.76	18.33
OC	293.40	292.01	282.35	263.40	235.83	200.84	159.34	112.68	63.83	19.06
OD	293.40	292.01	282.35	263.40	235.83	200.84	159.34	112.68	63.83	19.06



H[m]	D[m]	Max lux	Med lux	Alpha=57.6°+57.6° G=0.0
1.00	3.15	293	67	
2.00	6.31	73	17	
3.00	9.46	33	7	
4.00	12.61	18	4	
5.00	15.77	12	3	

H[m]	D[m]	Max lux	Med lux	Beta=57.8°+57.8° G=0.0
1.00	3.17	293	67	
2.00	6.35	73	17	
3.00	9.52	33	7	
4.00	12.70	18	4	
5.00	15.87	12	3	

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Lamps Flux	874.00 lm	Maximum value	335.70 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

UGR
S = 0.250

Reflectancies										
Ceiling/Cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
WorkingPlane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
RoomDimensions	ViewedCrosswise					ViewedEndwise				
x=2H y=2H	22.5	23.8	22.8	24.1	24.3	22.5	23.9	22.8	24.1	24.3
x=2H y=3H	24.2	25.4	24.5	25.7	26.0	24.2	25.5	24.6	25.7	26.0
x=2H y=4H	24.9	26.1	25.3	26.4	26.7	25.0	26.2	25.3	26.4	26.7
x=2H y=6H	25.5	26.6	25.9	26.9	27.3	25.6	26.6	25.9	26.9	27.3
x=2H y=8H	25.7	26.8	26.1	27.1	27.5	25.8	26.8	26.1	27.1	27.5
x=2H y=12H	25.8	26.9	26.2	27.2	27.6	25.9	26.9	26.3	27.2	27.6
x=4H y=2H	23.3	24.5	23.6	24.7	25.0	23.3	24.5	23.7	24.8	25.0
x=4H y=3H	25.2	26.2	25.6	26.5	26.9	25.2	26.2	25.6	26.6	26.9
x=4H y=4H	26.1	26.9	26.5	27.3	27.7	26.1	27.0	26.5	27.3	27.7
x=4H y=6H	26.8	27.5	27.2	27.9	28.4	26.8	27.6	27.2	28.0	28.4
x=4H y=8H	27.0	27.7	27.4	28.1	28.6	27.1	27.8	27.5	28.2	28.6
x=4H y=12H	27.2	27.8	27.7	28.3	28.8	27.3	27.9	27.7	28.3	28.8
x=8H y=4H	26.4	27.2	26.9	27.6	28.0	26.5	27.2	26.9	27.6	28.0
x=8H y=6H	27.3	27.9	27.8	28.3	28.8	27.3	27.9	27.8	28.4	28.8
x=8H y=8H	27.6	28.2	28.1	28.6	29.1	27.7	28.2	28.2	28.7	29.1
x=8H y=12H	27.9	28.4	28.4	28.8	29.4	28.0	28.4	28.5	28.9	29.4
x=12H y=4H	26.5	27.1	26.9	27.6	28.0	26.5	27.2	27.0	27.6	28.0
x=12H y=6H	27.4	27.9	27.9	28.4	28.9	27.4	28.0	27.9	28.4	28.9
x=12H y=8H	27.8	28.2	28.3	28.7	29.3	27.8	28.3	28.3	28.8	29.3

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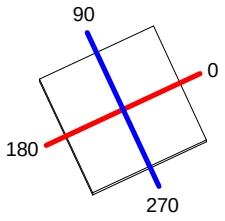
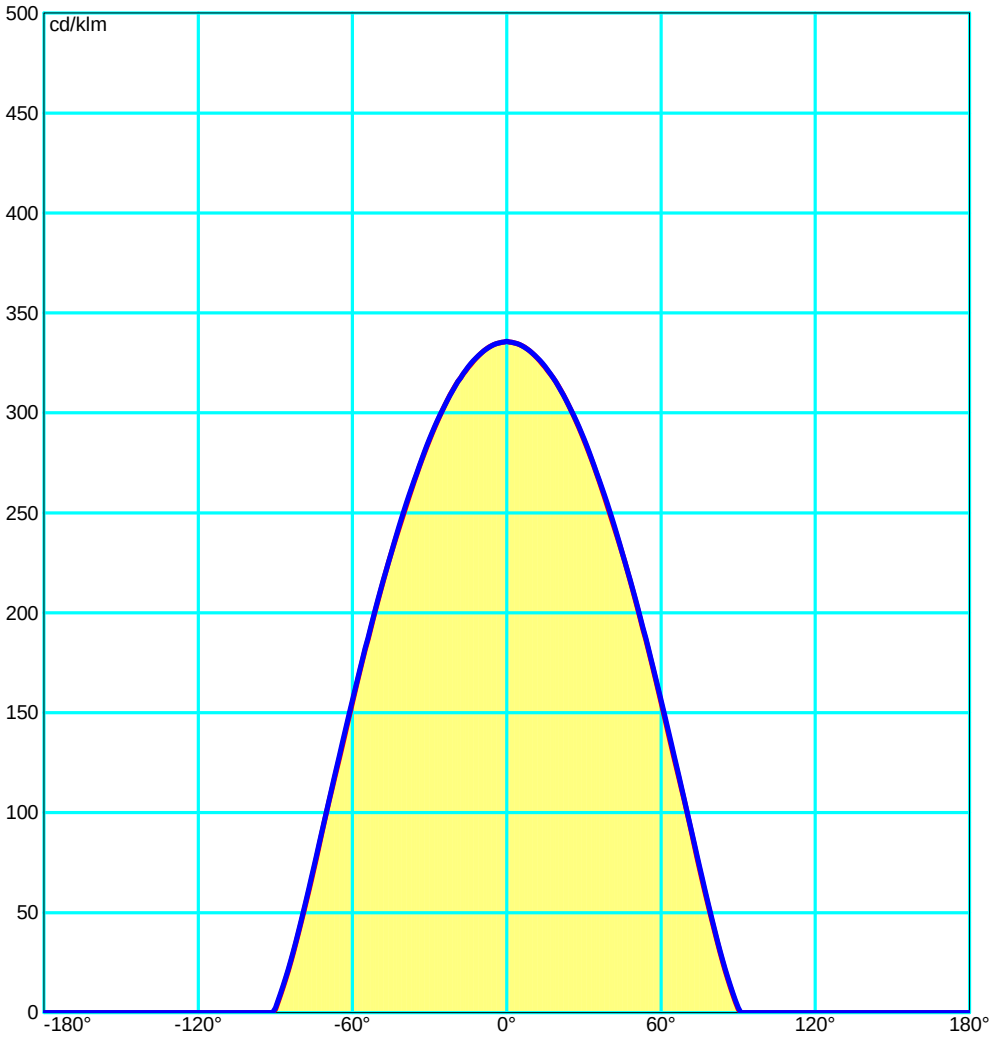
170mm x 170mm



C Halfplanes

180.0 0.0
270.0 90.0



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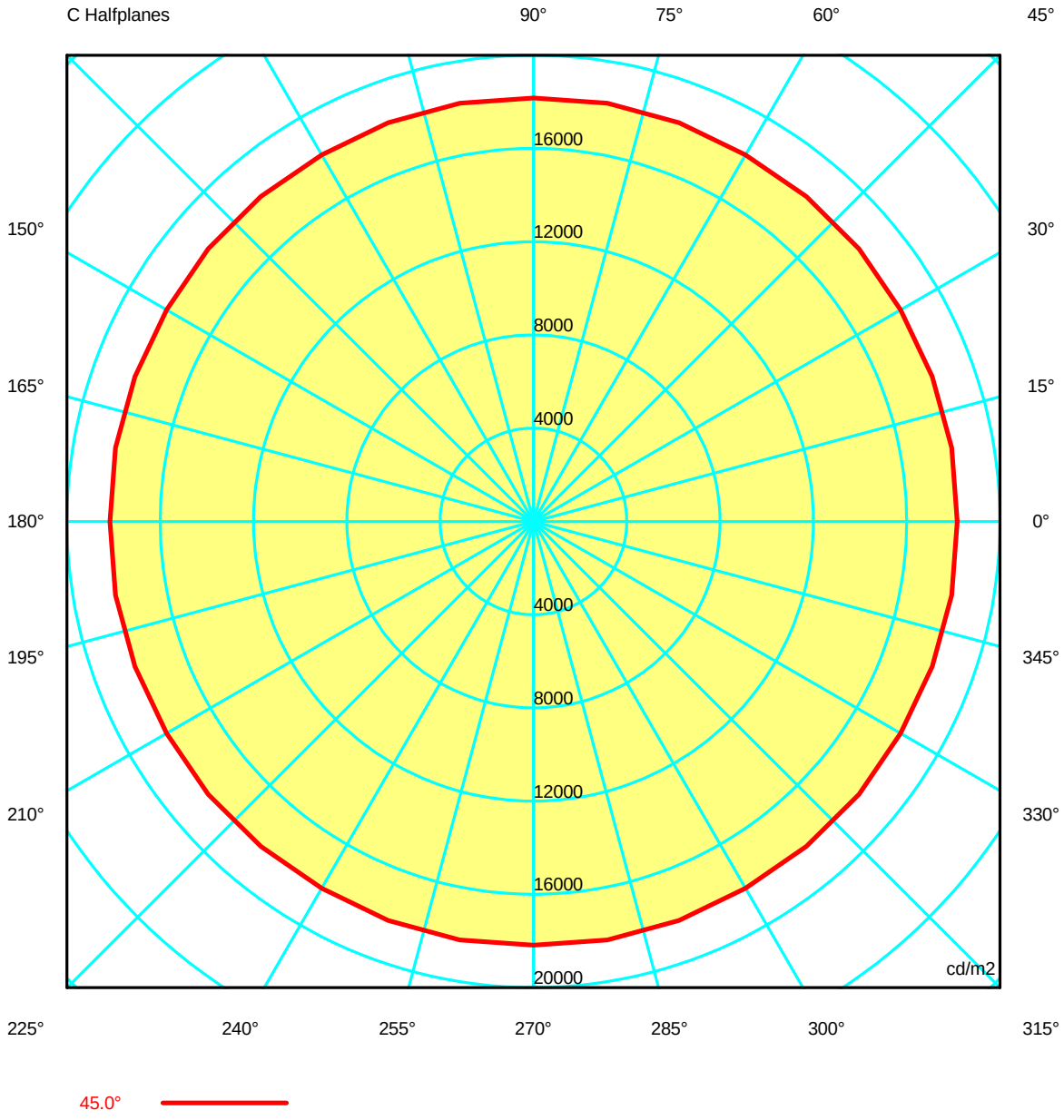
Lamps Flux	874.00 lm	Maximum value	335.70 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Luminance



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Lamps Flux	874.00 lm	Maximum value	335.70 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Luminance cd/m2 **Table 1/3**

	C 0.00	C 10.00	C 20.00	C 30.00	C 40.00	C 50.00	C 60.00	C 70.00	C 80.00	C 90.00	C 100.00	C 110.00	C 120.00
G 0.0	18777.62	18777.62	18777.62	18777.62	18777.62	18777.62	18777.62	18777.62	18777.62	18777.62	18777.62	18777.62	18777.62
G 5.0	18761.60	18769.68	18771.16	18766.50	18762.70	18764.43	18769.64	18771.42	18767.60	18759.75	18767.60	18771.42	18769.64
G 10.0	18733.15	18744.47	18747.39	18743.21	18741.09	18743.16	18748.03	18751.93	18748.47	18737.76	18748.47	18751.93	18748.03
G 15.0	18687.91	18711.15	18714.77	18710.02	18708.43	18710.96	18715.48	18721.96	18719.96	18707.91	18719.96	18721.96	18715.48
G 20.0	18663.94	18668.86	18664.21	18657.59	18664.38	18664.52	18659.45	18669.63	18670.76	18653.83	18670.76	18669.63	18659.45
G 25.0	18590.95	18615.90	18617.16	18603.44	18604.78	18605.02	18604.15	18620.65	18622.57	18600.30	18622.57	18620.65	18604.15
G 30.0	18503.77	18533.88	18535.63	18525.27	18542.99	18550.78	18544.62	18558.21	18561.39	18541.91	18561.39	18558.21	18544.62
G 35.0	18393.90	18453.54	18460.48	18435.90	18447.74	18460.76	18462.74	18476.28	18466.77	18425.25	18466.77	18476.28	18462.74
G 40.0	18253.10	18328.26	18335.62	18309.77	18343.08	18358.31	18340.66	18354.62	18359.89	18336.62	18359.89	18354.62	18340.66
G 45.0	18157.52	18196.14	18190.62	18171.35	18202.86	18197.68	18167.04	18209.44	18226.90	18177.82	18226.90	18209.44	18167.04
G 50.0	17989.76	18014.32	18000.88	17982.13	18020.40	18022.97	17993.59	18029.03	18057.60	18042.89	18057.60	18029.03	17993.59
G 55.0	17706.41	17743.59	17739.85	17719.48	17744.93	17775.58	17792.11	17811.87	17809.34	17779.55	17809.34	17811.87	17792.11
G 60.0	17344.99	17434.26	17439.83	17405.65	17447.77	17471.67	17468.04	17520.31	17530.94	17465.33	17530.94	17520.31	17468.04
G 65.0	16884.24	16970.78	16993.33	16980.42	17013.29	17022.89	17013.81	17062.81	17090.43	17063.54	17090.43	17062.81	17013.81
G 70.0	16476.32	16387.62	16338.49	16352.71	16416.84	16436.88	16427.13	16486.38	16541.86	16555.51	16541.86	16486.38	16427.13
G 75.0	15519.06	15683.58	15693.38	15614.88	15651.24	15686.63	15727.85	15892.73	15935.51	15782.96	15935.51	15892.73	15727.85
G 80.0	14539.72	14661.40	14606.17	14546.58	14796.09	14878.61	14779.23	14939.17	14992.84	14782.63	14992.84	14939.17	14779.23
G 85.0	13458.76	13422.53	13391.13	13445.86	13666.42	13834.26	13899.42	13998.12	14040.68	13995.77	14040.68	13998.12	13899.42
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Luminance cd/m2 **Table 2/3**

	C 130.00	C 140.00	C 150.00	C 160.00	C 170.00	C 180.00	C 190.00	C 200.00	C 210.00	C 220.00	C 230.00	C 240.00	C 250.00
G 0.0	18777.62	18777.62	18777.62	18777.62	18777.62	18777.62	18777.62	18777.62	18777.62	18777.62	18777.62	18777.62	18777.62
G 5.0	18764.43	18762.70	18766.50	18771.16	18769.68	18761.60	18769.68	18771.16	18766.50	18762.70	18764.43	18769.64	18771.42
G 10.0	18743.16	18741.09	18743.21	18747.39	18744.47	18733.15	18744.47	18747.39	18743.21	18741.09	18743.16	18748.03	18751.93
G 15.0	18710.96	18708.43	18710.02	18714.77	18711.15	18687.91	18711.15	18714.77	18710.02	18708.43	18710.96	18715.48	18721.96
G 20.0	18664.52	18664.38	18657.59	18664.21	18668.86	18663.94	18668.86	18664.21	18657.59	18664.38	18664.52	18659.45	18669.63
G 25.0	18605.02	18604.78	18603.44	18617.16	18615.90	18590.95	18615.90	18617.16	18603.44	18604.78	18605.02	18604.15	18620.65
G 30.0	18550.78	18542.99	18525.27	18535.63	18533.88	18503.77	18533.88	18535.63	18525.27	18542.99	18550.78	18544.62	18558.21
G 35.0	18460.76	18447.74	18435.90	18460.48	18453.54	18393.90	18453.54	18460.48	18435.90	18447.74	18460.76	18462.74	18476.28
G 40.0	18358.31	18343.08	18309.77	18335.62	18328.26	18253.10	18328.26	18335.62	18309.77	18343.08	18358.31	18340.66	18354.62
G 45.0	18197.68	18202.86	18171.35	18190.62	18196.14	18157.52	18196.14	18190.62	18171.35	18202.86	18197.68	18167.04	18209.44
G 50.0	18022.97	18020.40	17982.13	18000.88	18014.32	17989.76	18014.32	18000.88	17982.13	18020.40	18022.97	17993.59	18029.03
G 55.0	17775.58	17744.93	17719.48	17739.85	17743.59	17706.41	17743.59	17739.85	17719.48	17744.93	17775.58	17792.11	17811.87
G 60.0	17471.67	17447.77	17405.65	17439.83	17434.26	17344.99	17434.26	17439.83	17405.65	17447.77	17471.67	17468.04	17520.31
G 65.0	17022.89	17013.29	16980.42	16993.33	16970.78	16884.24	16970.78	16993.33	16980.42	17013.29	17022.89	17013.81	17062.81
G 70.0	16436.88	16416.84	16352.71	16338.49	16387.62	16476.32	16387.62	16338.49	16352.71	16416.84	16436.88	16427.13	16486.38
G 75.0	15686.63	15651.24	15614.88	15693.38	15683.58	15519.06	15683.58	15693.38	15614.88	15651.24	15686.63	15727.85	15892.73
G 80.0	14878.61	14796.09	14546.58	14606.17	14661.40	14539.72	14661.40	14606.17	14546.58	14796.09	14878.61	14779.23	14939.17
G 85.0	13834.26	13666.42	13445.86	13391.13	13422.53	13458.76	13422.53	13391.13	13445.86	13666.42	13834.26	13899.42	13998.12
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Luminaire
Code TC-0154-BLA
Name Downlight FORLIGHT 10W 3000K
Measurem.
Code TC-0154-BLA
Name Downlight FORLIGHT 10W 3000K

Luminaire Flux	873.99 lm	Luminaire Power	12.00 W	Efficacy	72.83 lm/W	Efficiency 100.00%
Lamps Flux	874.00 lm	Maximum value	335.70 cd/klm	Position	C=0.00 G=0.00	CG Double Symmetrical

Luminance cd/m2 **Table 3/3**

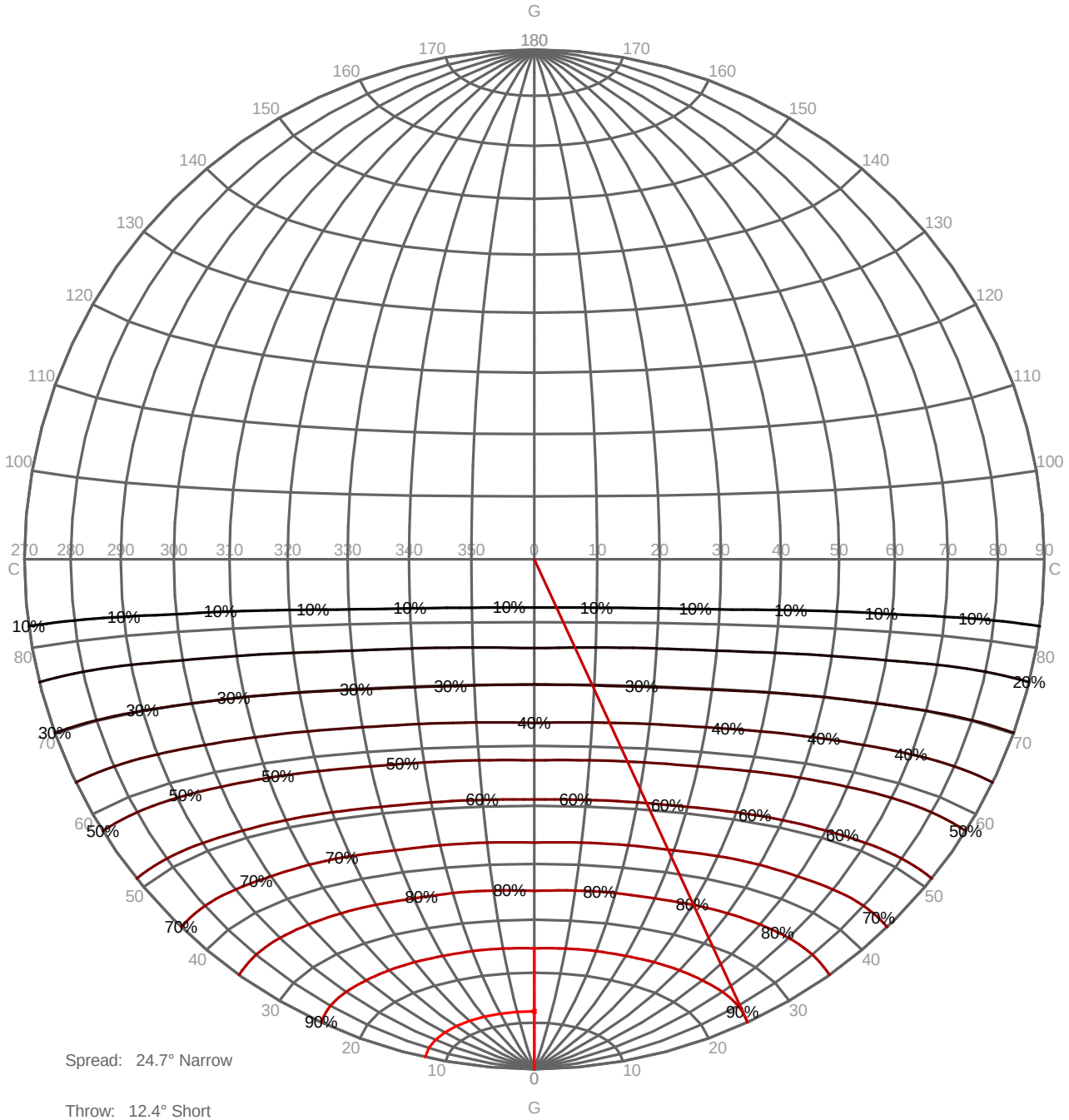
	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	18777.62	18777.62	18777.62	18777.62	18777.62	18777.62	18777.62	18777.62	18777.62	18777.62
G 5.0	18767.60	18759.75	18767.60	18771.42	18769.64	18764.43	18762.70	18766.50	18771.16	18769.68
G 10.0	18748.47	18737.76	18748.47	18751.93	18748.03	18743.16	18741.09	18743.21	18747.39	18744.47
G 15.0	18719.96	18707.91	18719.96	18721.96	18715.48	18710.96	18708.43	18710.02	18714.77	18711.15
G 20.0	18670.76	18653.83	18670.76	18669.63	18659.45	18664.52	18664.38	18657.59	18664.21	18668.86
G 25.0	18622.57	18600.30	18622.57	18620.65	18604.15	18605.02	18604.78	18603.44	18617.16	18615.90
G 30.0	18561.39	18541.91	18561.39	18558.21	18544.62	18550.78	18542.99	18525.27	18535.63	18533.88
G 35.0	18466.77	18425.25	18466.77	18476.28	18462.74	18460.76	18447.74	18435.90	18460.48	18453.54
G 40.0	18359.89	18336.62	18359.89	18354.62	18340.66	18358.31	18343.08	18309.77	18335.62	18328.26
G 45.0	18226.90	18177.82	18226.90	18209.44	18167.04	18197.68	18202.86	18171.35	18190.62	18196.14
G 50.0	18057.60	18042.89	18057.60	18029.03	17993.59	18022.97	18020.40	17982.13	18000.88	18014.32
G 55.0	17809.34	17779.55	17809.34	17811.87	17792.11	17775.58	17744.93	17719.48	17739.85	17743.59
G 60.0	17530.94	17465.33	17530.94	17520.31	17468.04	17471.67	17447.77	17405.65	17439.83	17434.26
G 65.0	17090.43	17063.54	17090.43	17062.81	17013.81	17022.89	17013.29	16980.42	16993.33	16970.78
G 70.0	16541.86	16555.51	16541.86	16486.38	16427.13	16436.88	16416.84	16352.71	16338.49	16387.62
G 75.0	15935.51	15782.96	15935.51	15892.73	15727.85	15686.63	15651.24	15614.88	15693.38	15683.58
G 80.0	14992.84	14782.63	14992.84	14939.17	14779.23	14878.61	14796.09	14546.58	14606.17	14661.40
G 85.0	14040.68	13995.77	14040.68	13998.12	13899.42	13834.26	13666.42	13445.86	13391.13	13422.53
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Luminaire
Code TC-0154-BLA
Name Downlight FORLIGHT 10W 3000K
Measurem.
Code TC-0154-BLA
Name Downlight FORLIGHT 10W 3000K

Luminaire Flux	873.99 lm	Luminaire Power	12.00 W	Efficacy	72.83 lm/W	Efficiency	100.00%
Lamps Flux	874.00 lm	Maximum value	335.70 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

PERCENTAGE ISOCANDLES

Projection: Equal Area SLI (glare) 6.5 Tight Tilting Angle:0°



Spread: 24.7° Narrow

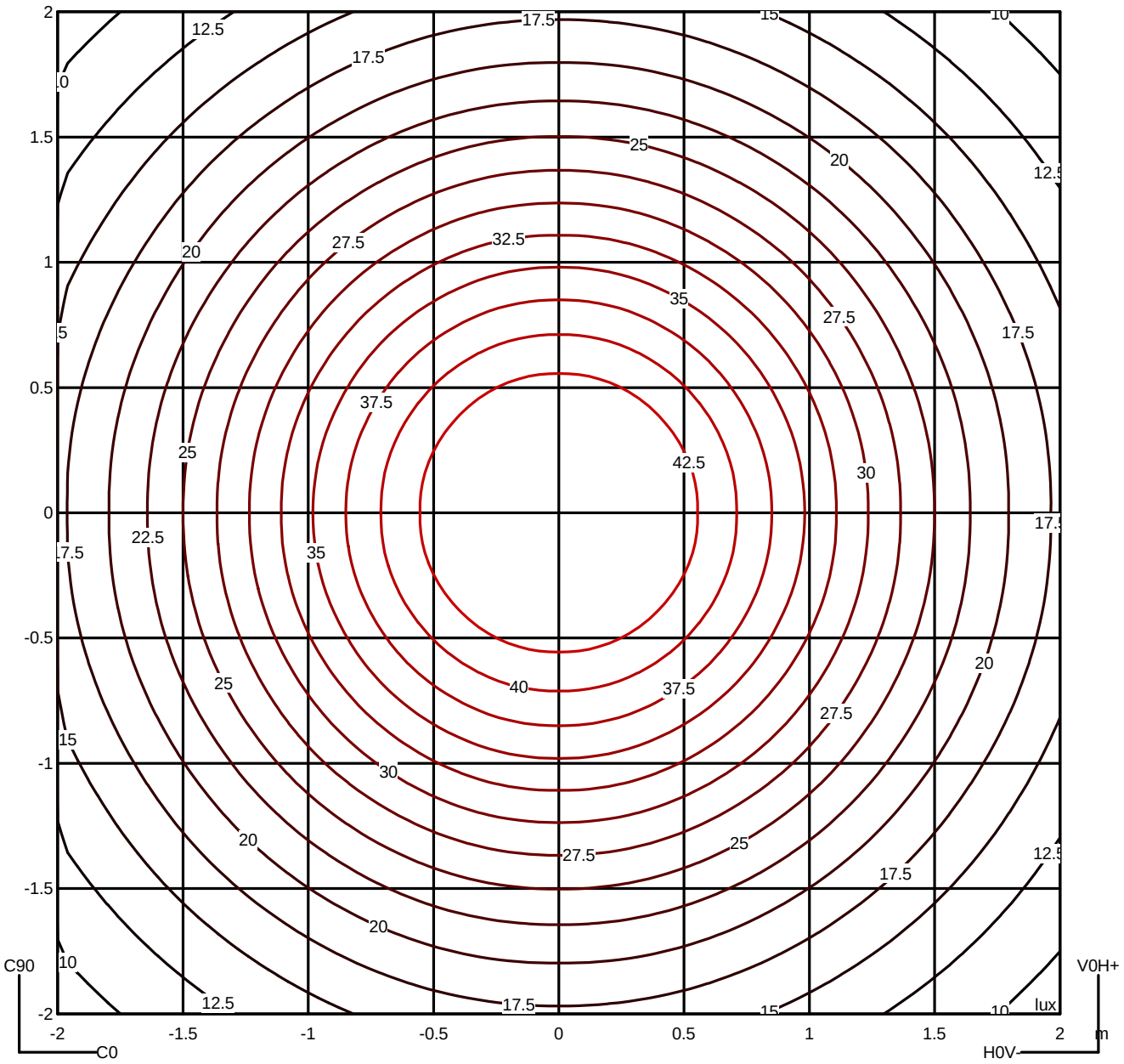
Throw: 12.4° Short

Luminaire
Code TC-0154-BLA
Name Downlight FORLIGHT 10W 3000K
Measurem.
Code TC-0154-BLA
Name Downlight FORLIGHT 10W 3000K

Luminaire Flux	873.99 lm	Luminaire Power	12.00 W	Efficacy	72.83 lm/W	Efficiency	100.00%
Lamps Flux	874.00 lm	Maximum value	335.70 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Isolux (Floor)

Luminaire position X=0.00m Y=0.00m Z=2.50m



Luminaire
Code TC-0154-BLA
Name Downlight FORLIGHT 10W 3000K
Measurem.
Code TC-0154-BLA
Name Downlight FORLIGHT 10W 3000K

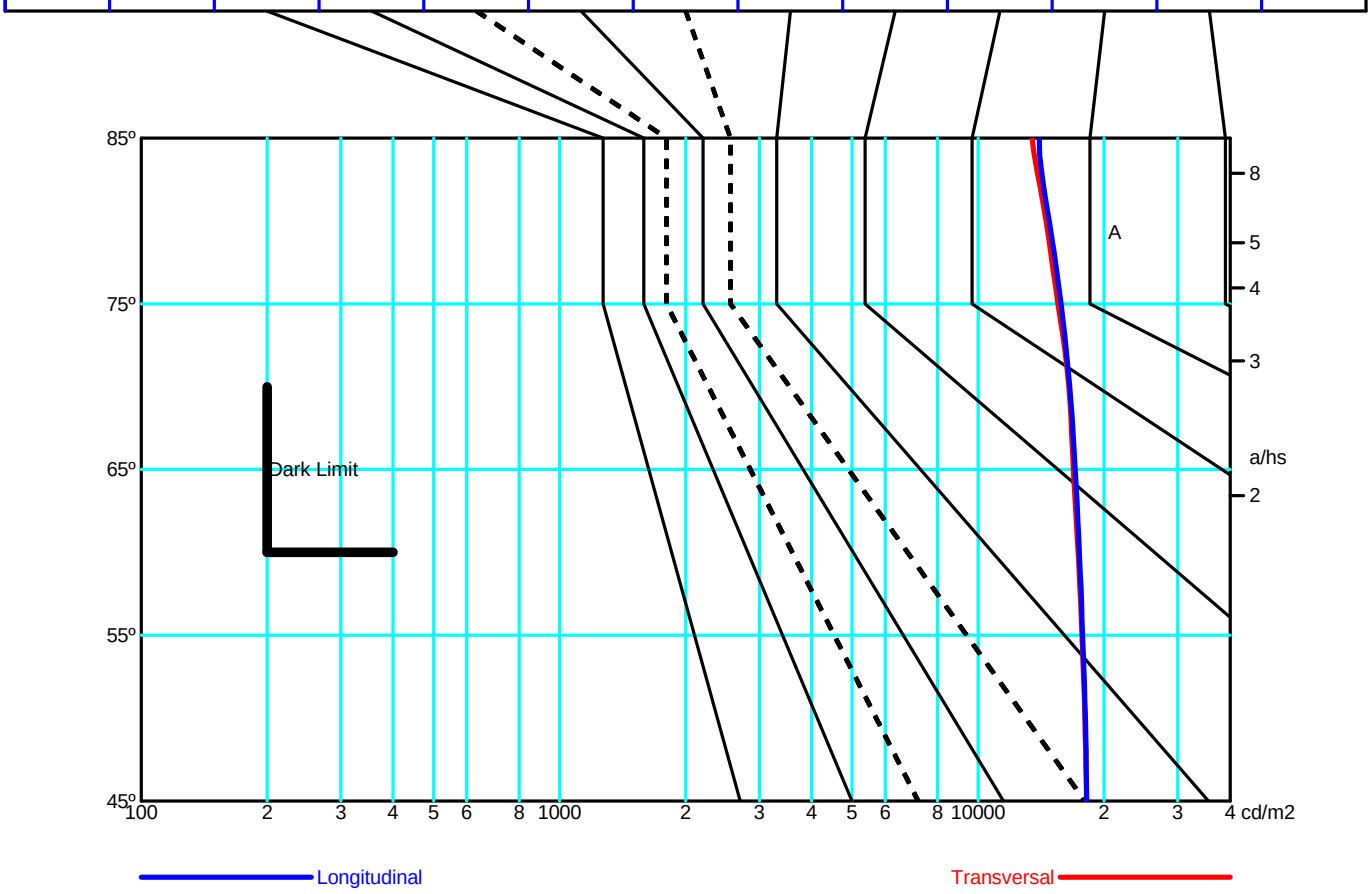
Luminaire Flux	873.99 lm	Luminaire Power	12.00 W	Efficacy	72.83 lm/W	Efficiency	100.00%
Lamps Flux	874.00 lm	Maximum value	335.70 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

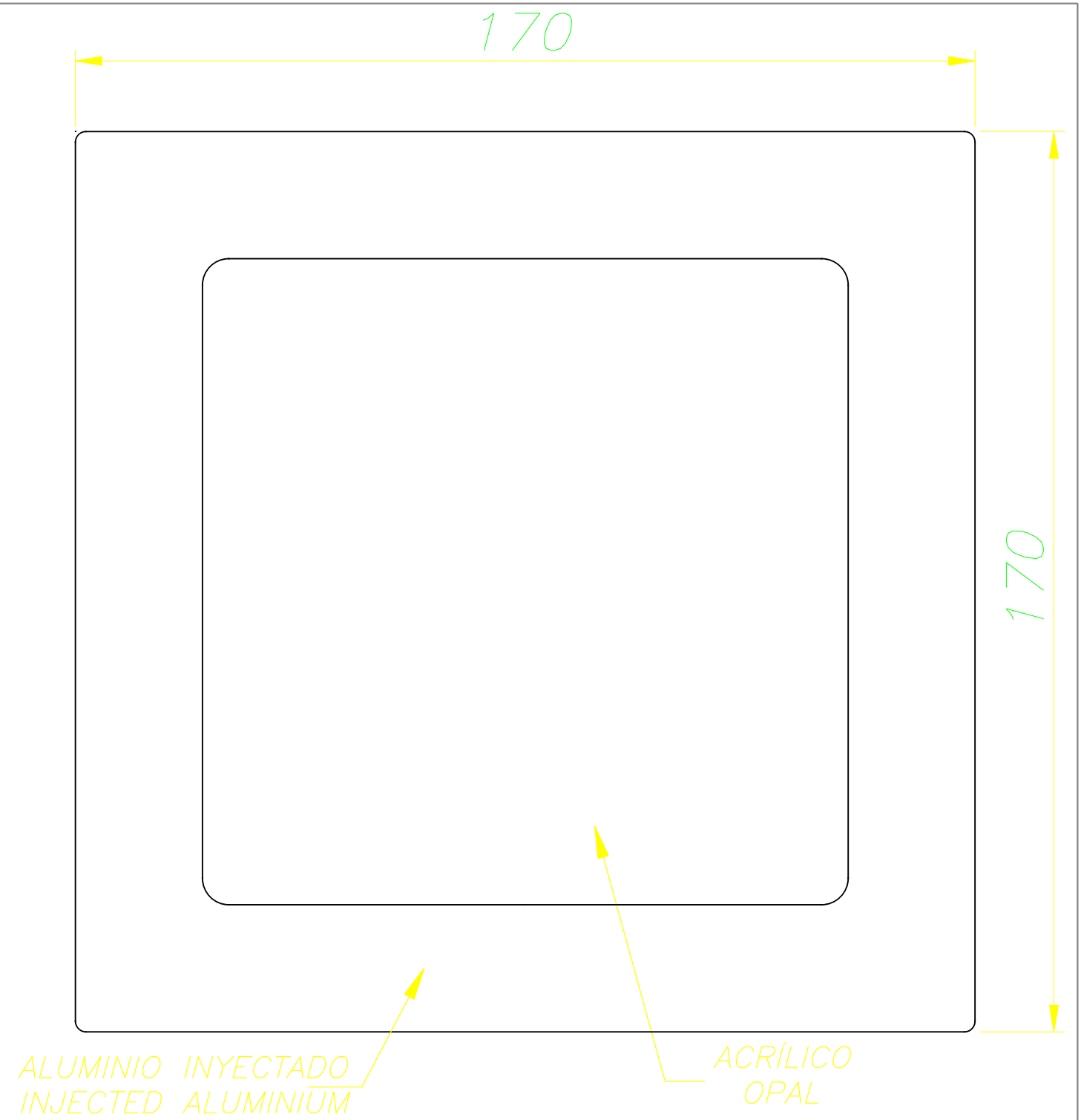
Average Luminance [cd/m²]

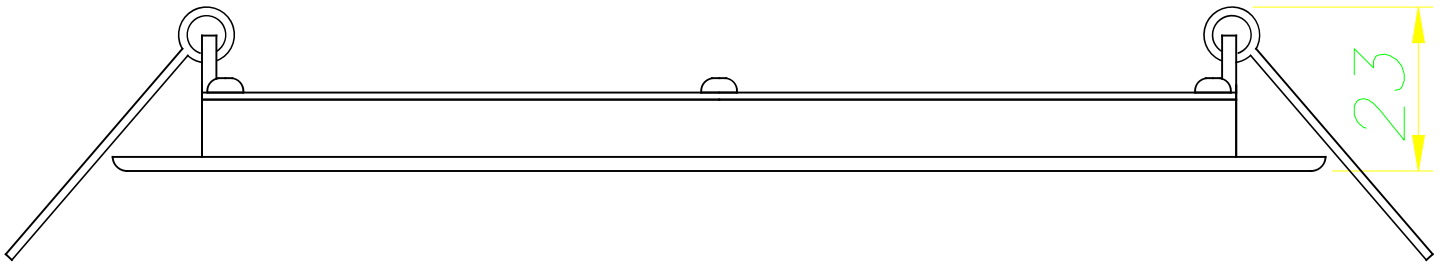
	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	18158	17990	17706	17345	16884	16476	15519	14540	13459	---
90.0°	18178	18043	17780	17465	17064	16556	15783	14783	13996	---

Flush mounted or longitudinal view

		Illumination(lx)										
A	A	2000	1000	750	500		<300					1.15
B	1		2000	1500	1000	750	500	<300				1.5
C					2000		1000	500	<300			1.85
D	2						2000	1000	500	<300		2.2
E	3							2000	1000	500	<300	2.55




170
170
ALUMINIO INYECTADO
INJECTED ALUMINIUM
ACRÍLICO
OPAL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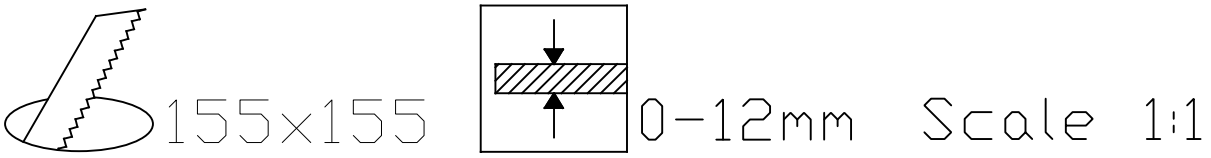
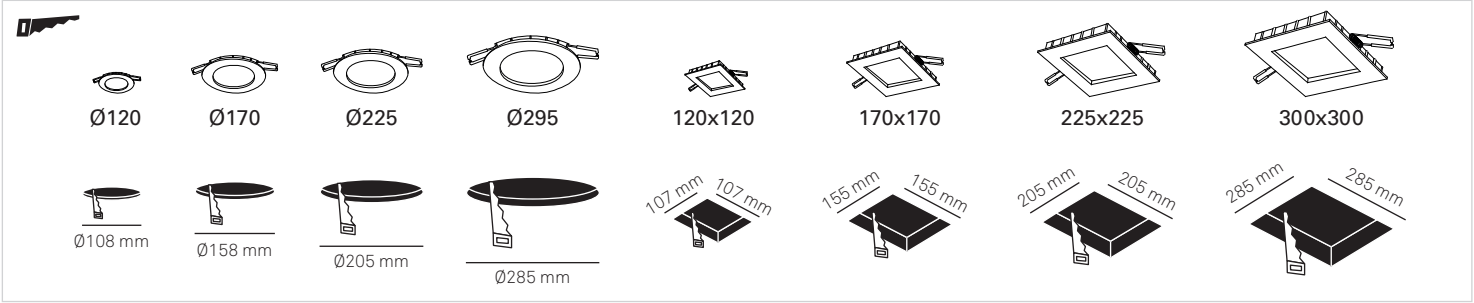
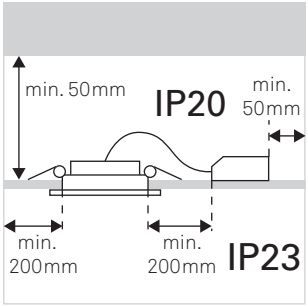
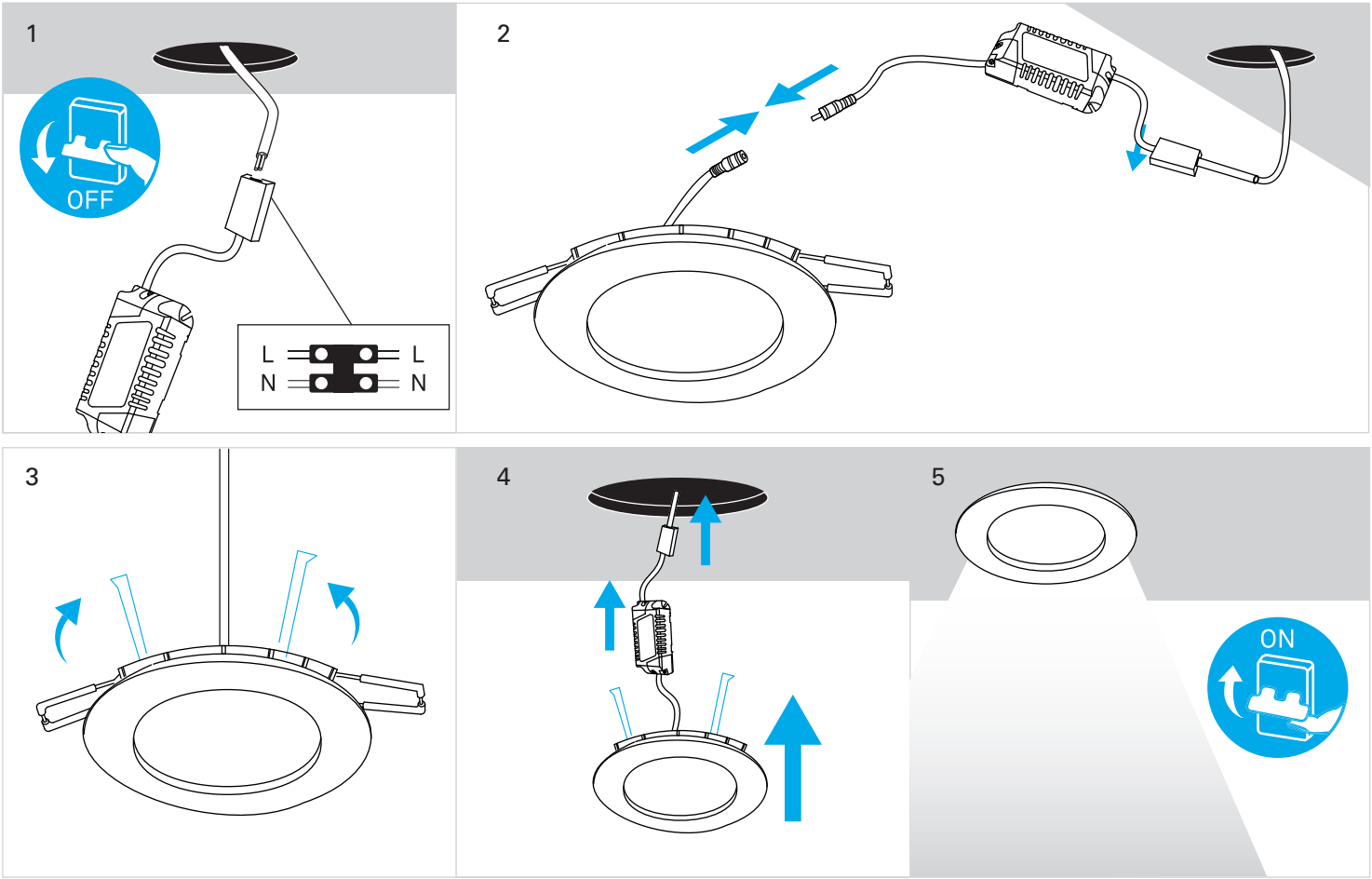

155x155
0-12mm
Scale 1:1

11-02-16

Easy







18-12-2020