Easy Round Surface Ø120mm

LedsC4 Team

TC-0158-BLA

Surface-mounted ceiling light Easy Round Surface Ø120mm IP23 LED 4.6W 3000K ON-OFF White 414lm





TECHNICAL FEATURES

IP23

Luminaire total power : 5.6W

Real lumens : 414

Nominal lumens : 580

Real lm/W : 74

Lens / reflector angle : HORIZONTAL 113º

Structure material : Aluminium

Structure finish : White

Diffuser material : Acrylic

Diffuser finish : Opal

Voltage / frequency : 100-240V ~ 50/60Hz

Dimming protocol : ON-OFF

Power Factor : 0.40

Useful life : 36.000h L70B30

Warranty : 5 Years

Easily recyclable luminaire

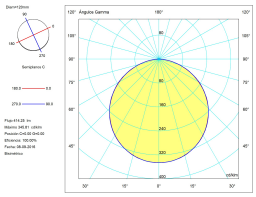
LUMINOTECHNIC FEATURES

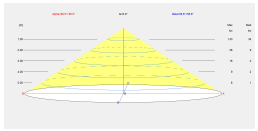
CRI: 80

MacAdam steps: 3

Photobiological risk: RG1

Lampholder	Quantity	Light source power (W)	Correlated Colour Temperature (CCT)
LED	1	4.6W	3000K





LOGISTICS

Net weight (kg): 0.19

Packaged weight (kg): 0.2

Packaging: 125mm x 45mm x 125mm

40 Un

LIGHT APPLICATION

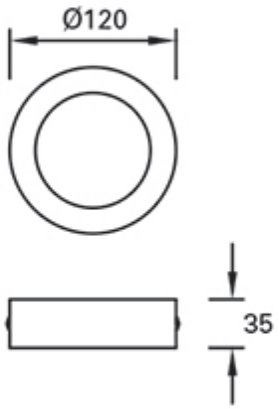


Image may not match reference. LEDS C4 reserves the right to amend any of the product's components. The data related to flux, power and colour temperature are subject to a tolerance of ±10%.

Luminaire
Code TC-0158-BLA
Name Downlight FORLIGHT leds 4.6W
Measurem.
Code TC-0146-BLA
Name Downlight FORLIGHT leds 4.6W

Luminaire Flux	414.25 lm	Luminaire Power	6.00 W	Efficacy	69.04 lm/W	Efficiency	100.00%
Lamps Flux	414.25 lm	Maximum value	345.81 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

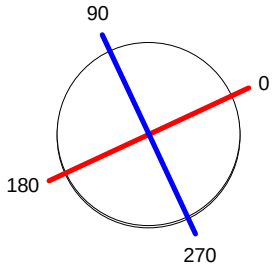
Round Luminaire	Diam. 120 mm	Height	3 mm
Round Luminous Area	Diam. 76 mm	Height	0 mm
Horizontal Luminous Area	0.004536 m2	Emitting area on Plane 180°	0.000000 m2
Emitting area on Plane 0°	0.000000 m2	Emitting area on Plane 270°	0.000000 m2
Emitting area on Plane 90°	0.000000 m2	Glare area at 76°	0.001097 m2
Coordinate system	CG	Symmetry Type	Double Symmetrical
Date	08-09-2016	Maximum Gamma Angle	90
Measurement Distance	0.00	Measurement Flux	414.25 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-0158-BLA	TC-0158-BLA	414.25	6.00	1

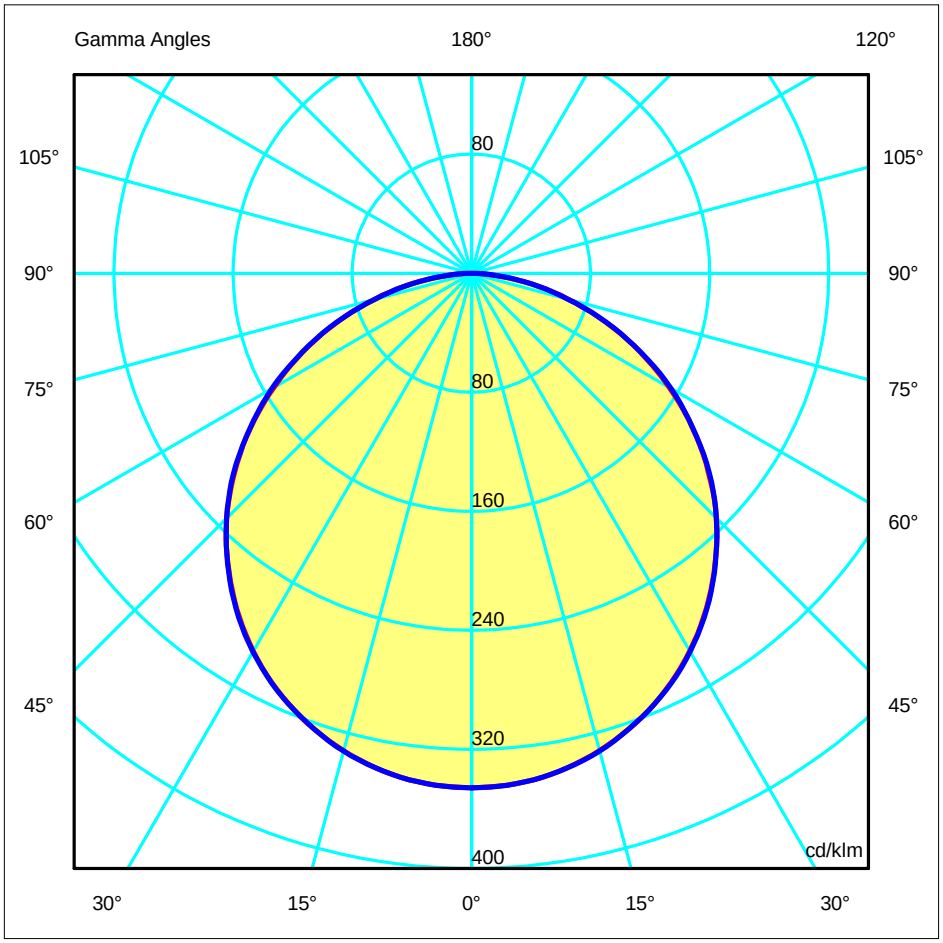
C.I.E. 47 78 95 100 100		D DIN 5040	A30
F UTE 1.00 E		B NBN	BZ 5

Diam=120mm



C Halfplanes

180.0 — 0.0
270.0 — 90.0



ULOR	0.00 %
DLOR	100.00 %
RN	0.00 %

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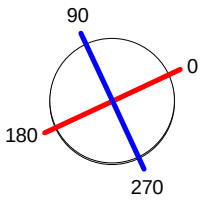
Luminous Intensity Table cd/klm **Table 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	345.81	345.81	345.81	345.81	345.81	345.81	345.81
G 5.0	344.24	344.19	344.26	344.22	344.29	344.27	344.27
G 10.0	339.71	339.78	339.60	339.79	339.79	339.76	339.67
G 15.0	332.07	332.21	332.40	332.31	332.38	332.42	332.39
G 20.0	321.80	322.18	321.91	322.03	321.93	322.17	321.72
G 25.0	308.84	309.03	309.12	309.26	309.05	309.37	309.13
G 30.0	293.11	293.69	293.48	293.74	293.54	293.83	293.53
G 35.0	274.97	275.79	275.40	275.68	275.49	275.81	275.51
G 40.0	254.51	255.25	255.17	255.31	255.08	255.67	254.79
G 45.0	232.62	232.98	232.29	232.72	232.45	232.86	232.51
G 50.0	207.73	208.25	207.82	208.60	208.38	208.33	208.46
G 55.0	181.41	182.58	181.65	182.27	181.82	182.42	181.64
G 60.0	153.24	153.87	154.07	154.49	154.36	154.64	154.81
G 65.0	124.93	125.97	125.23	125.68	125.68	125.88	125.51
G 70.0	96.21	95.99	96.23	96.46	96.43	96.94	96.57
G 75.0	67.42	67.96	67.13	67.80	67.49	68.12	67.15
G 80.0	40.52	40.37	40.41	40.76	40.91	41.19	41.06
G 85.0	16.10	16.45	16.27	16.85	16.72	16.85	16.97
G 90.0	0.68	0.71	0.88	1.33	1.88	2.26	2.38

Luminaire
Code TC-0158-BLA
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Measurem.
Code TC-0146-BLA
Name Downlight FORLIGHT leds 4.6W

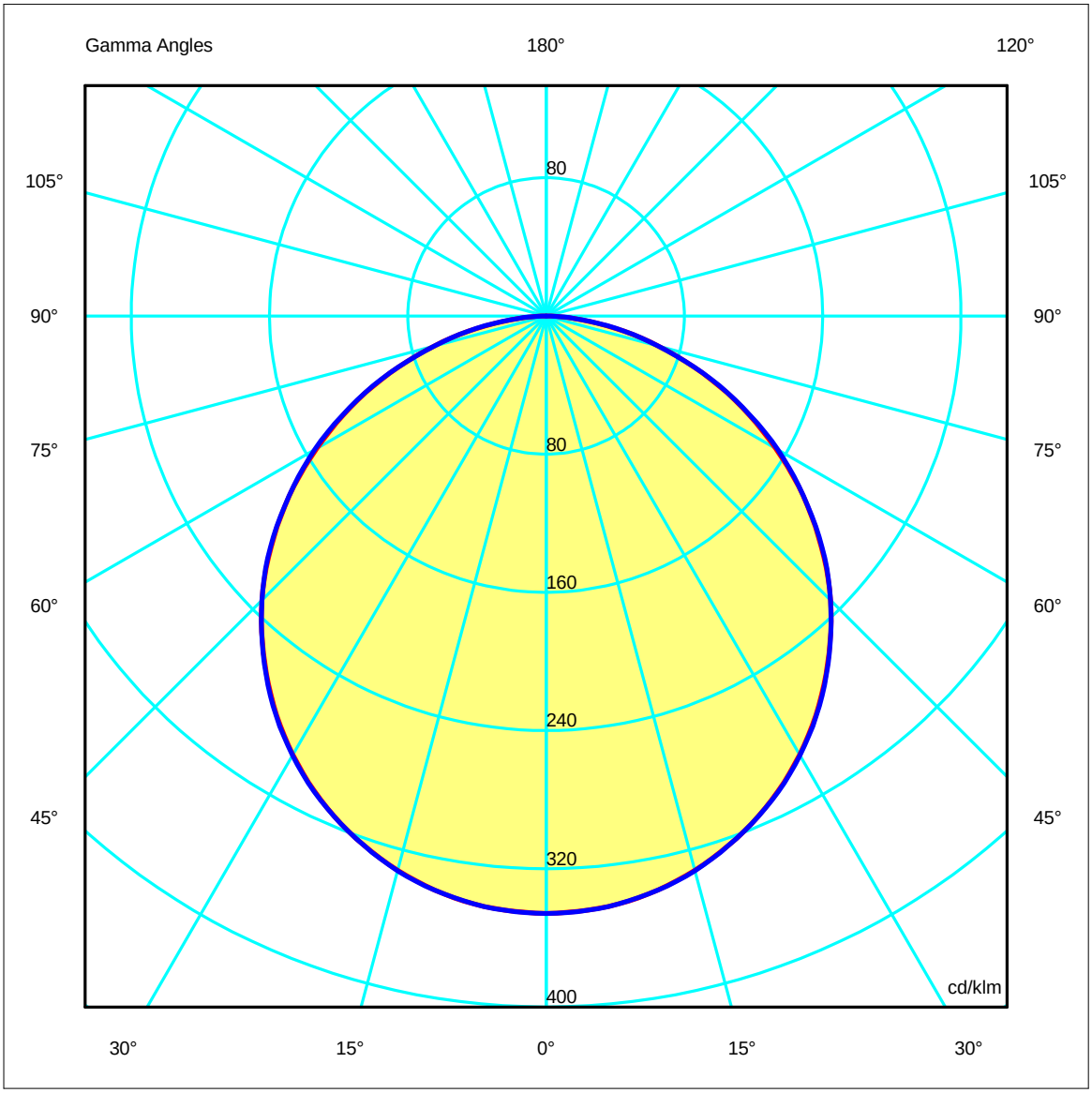
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Lamps Flux	414.25 lm	Maximum value	345.81 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=120mm



C Halfplanes





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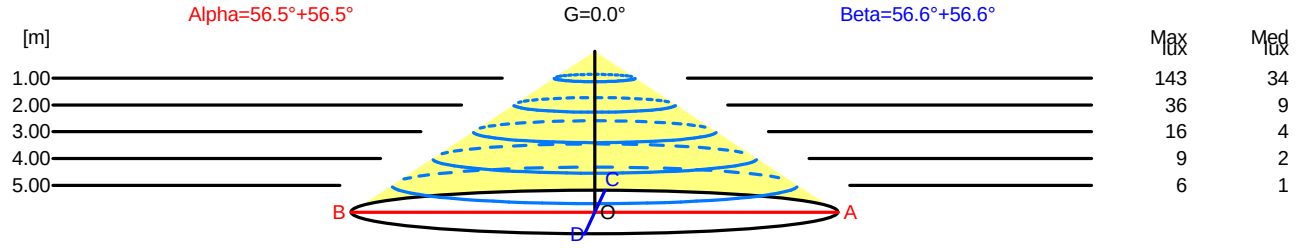
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Lamps Flux	414.25 lm	Maximum value	345.81 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Width at 50.00 % of Max Intensity

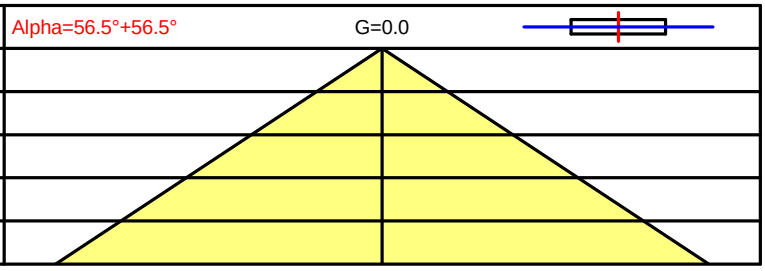
H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	1.51	3.03	4.54	6.05	7.56	OC	1.52	3.04	4.56	6.08	7.60
OB	1.51	3.03	4.54	6.05	7.56	OD	1.52	3.04	4.56	6.08	7.60

Luminous Intensities [cd/klm]

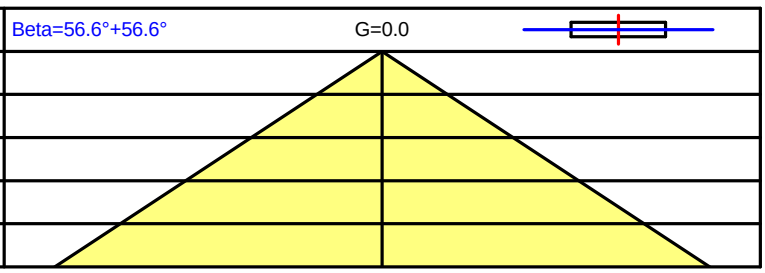
	0	5	15	25	35	45	55	65	75	85
OA	143.25	142.60	137.56	127.94	113.90	96.36	75.15	51.75	27.93	6.67
OB	143.25	142.60	137.56	127.94	113.90	96.36	75.15	51.75	27.93	6.67
OC	143.25	142.61	137.69	128.06	114.13	96.32	75.24	51.99	27.82	7.03
OD	143.25	142.61	137.69	128.06	114.13	96.32	75.24	51.99	27.82	7.03



H[m]	D[m]	Max lux	Med lux
1.00	3.03	143	34
2.00	6.05	36	9
3.00	9.08	16	4
4.00	12.10	9	2
5.00	15.13	6	1



H[m]	D[m]	Max lux	Med lux
1.00	3.04	143	34
2.00	6.08	36	9
3.00	9.12	16	4
4.00	12.15	9	2
5.00	15.19	6	1



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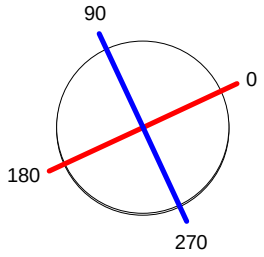
UGR
S = 0.250

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	24.2	25.5	24.5	25.7	26.0	24.2	25.5	24.5	25.7	26.0
x=2H y=3H	25.8	27.0	26.1	27.3	27.6	25.8	27.1	26.2	27.3	27.6
x=2H y=4H	26.5	27.6	26.8	27.9	28.2	26.5	27.7	26.8	27.9	28.2
x=2H y=6H	27.0	28.0	27.3	28.3	28.7	27.0	28.1	27.3	28.3	28.7
x=2H y=8H	27.1	28.1	27.5	28.5	28.8	27.2	28.2	27.5	28.5	28.8
x=2H y=12H	27.2	28.2	27.6	28.5	28.9	27.3	28.2	27.6	28.6	28.9
x=4H y=2H	24.9	26.1	25.3	26.4	26.7	25.0	26.1	25.3	26.4	26.7
x=4H y=3H	26.8	27.7	27.1	28.1	28.4	26.8	27.8	27.2	28.1	28.4
x=4H y=4H	27.6	28.4	28.0	28.8	29.2	27.6	28.4	28.0	28.8	29.2
x=4H y=6H	28.2	28.9	28.6	29.3	29.7	28.2	28.9	28.6	29.3	29.7
x=4H y=8H	28.4	29.1	28.8	29.5	29.9	28.4	29.1	28.8	29.5	29.9
x=4H y=12H	28.5	29.1	29.0	29.5	30.0	28.6	29.2	29.0	29.6	30.0
x=8H y=4H	27.9	28.6	28.3	29.0	29.4	27.9	28.6	28.4	29.0	29.4
x=8H y=6H	28.7	29.2	29.1	29.7	30.1	28.7	29.3	29.2	29.7	30.1
x=8H y=8H	28.9	29.4	29.4	29.9	30.4	29.0	29.5	29.5	29.9	30.4
x=8H y=12H	29.1	29.6	29.6	30.0	30.6	29.2	29.6	29.7	30.1	30.6
x=12H y=4H	28.0	28.6	28.4	29.0	29.4	28.0	28.6	28.4	29.0	29.4
x=12H y=6H	28.7	29.2	29.2	29.7	30.2	28.8	29.3	29.2	29.7	30.2
x=12H y=8H	29.0	29.5	29.5	29.9	30.5	29.1	29.5	29.6	30.0	30.5

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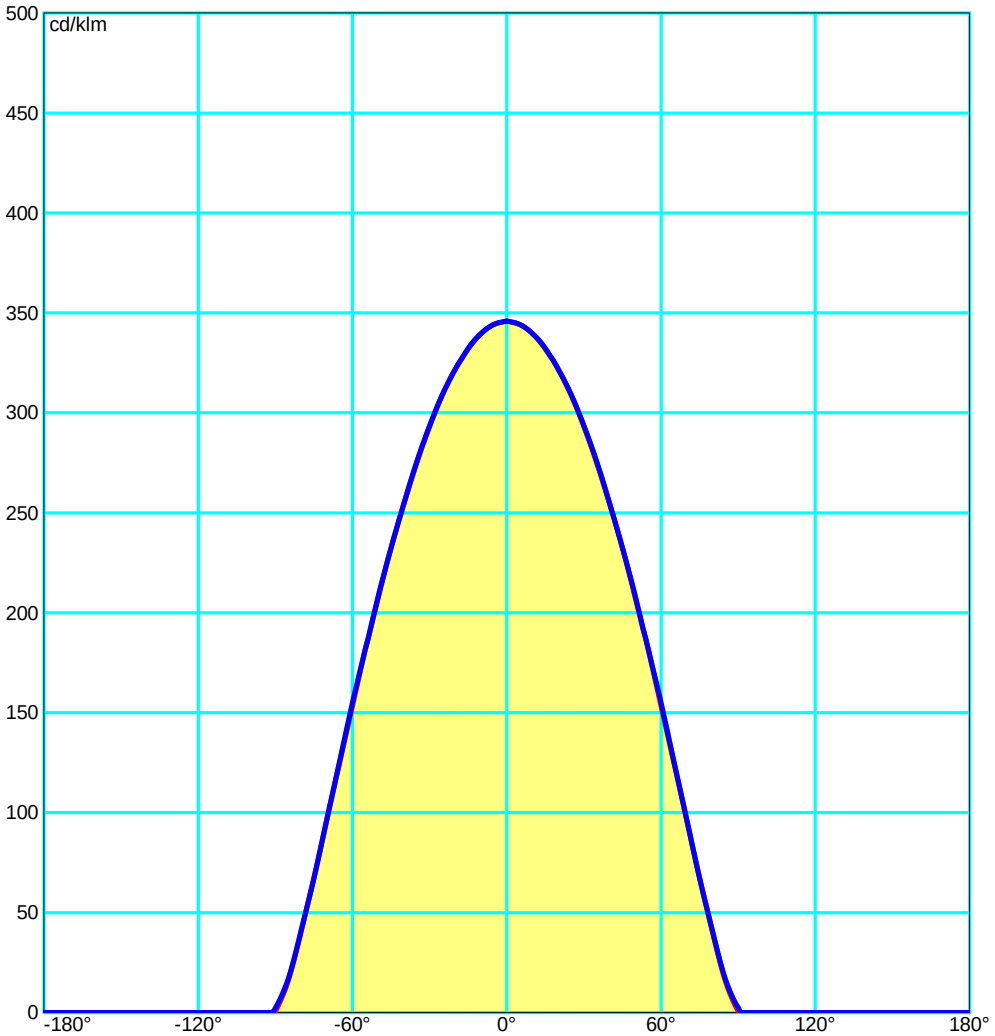
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Lamps Flux	414.25 lm	Maximum value	345.81 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=120mm



C Halfplanes

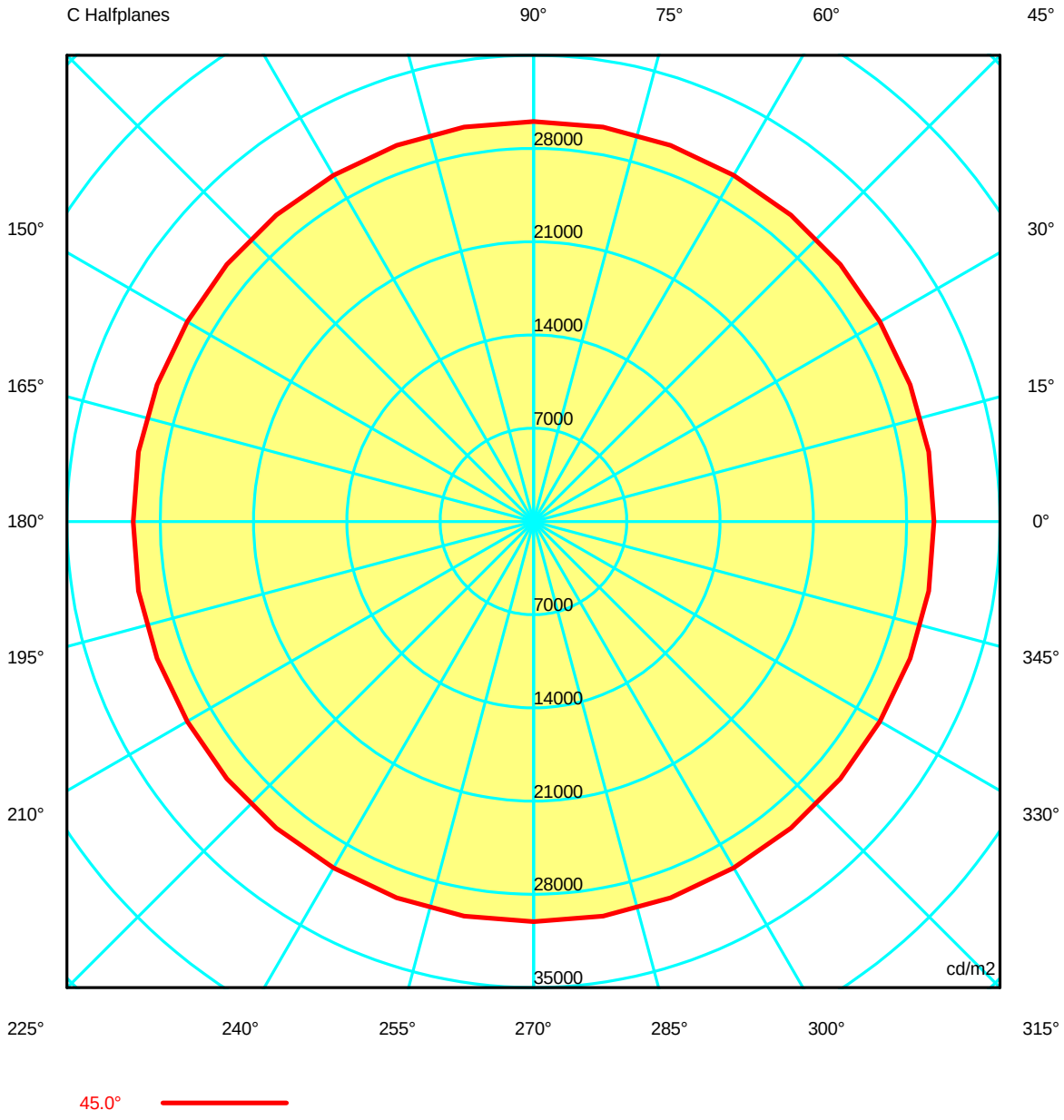
180.0 0.0
270.0 90.0



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Luminance



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Lamps Flux	414.25 lm	Maximum value	345.81 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	31580.64	31580.64	31580.64	31580.64	31580.64	31580.64	31580.64	31580.64	31580.64	31580.64	31580.64	31580.64	31580.64
G 5.0	31557.91	31553.24	31555.16	31559.50	31556.63	31557.11	31562.01	31560.89	31560.32	31560.31	31560.32	31560.89	31562.01
G 10.0	31502.37	31510.57	31503.54	31492.67	31503.32	31509.91	31509.92	31508.50	31505.25	31498.47	31505.25	31508.50	31509.92
G 15.0	31395.76	31403.60	31416.96	31427.54	31421.79	31418.98	31425.51	31429.27	31428.94	31426.41	31428.94	31429.27	31425.51
G 20.0	31274.59	31306.96	31304.85	31284.70	31292.58	31293.89	31287.38	31305.78	31303.88	31266.51	31303.88	31305.78	31287.38
G 25.0	31120.69	31134.82	31142.16	31148.48	31162.25	31155.46	31142.10	31164.26	31173.57	31150.27	31173.57	31164.26	31142.10
G 30.0	30909.38	30960.60	30965.93	30948.16	30968.15	30970.84	30955.03	30975.91	30982.75	30953.99	30982.75	30975.91	30955.03
G 35.0	30655.16	30732.77	30737.81	30703.22	30723.96	30730.29	30713.70	30738.28	30747.29	30716.29	30747.29	30738.28	30713.70
G 40.0	30342.29	30411.39	30431.44	30420.77	30436.05	30425.28	30409.97	30463.32	30465.09	30375.41	30465.09	30463.32	30409.97
G 45.0	30043.30	30093.02	30060.67	30000.40	30037.45	30050.02	30021.72	30056.88	30072.14	30029.74	30072.14	30056.88	30021.72
G 50.0	29512.96	29581.19	29564.82	29526.39	29601.40	29627.01	29605.69	29594.31	29604.34	29617.57	29604.34	29594.31	29605.69
G 55.0	28884.46	29049.40	29028.69	28922.12	28988.29	29005.98	28949.35	29015.87	29030.98	28920.74	29030.98	29015.87	28949.35
G 60.0	27989.50	28075.20	28117.54	28140.05	28198.03	28214.31	28193.64	28223.40	28260.57	28276.86	28260.57	28223.40	28193.64
G 65.0	26997.15	27191.55	27180.41	27061.41	27126.26	27158.97	27159.56	27191.22	27188.95	27121.72	27188.95	27191.22	27159.56
G 70.0	25689.56	25639.93	25642.23	25696.28	25749.05	25753.61	25747.27	25847.79	25879.27	25784.92	25879.27	25847.79	25747.27
G 75.0	23790.67	23981.82	23880.71	23685.90	23846.86	23903.59	23814.06	23979.44	23991.51	23693.77	23991.51	23979.44	23814.06
G 80.0	21312.74	21254.23	21219.23	21252.92	21380.37	21467.82	21512.76	21622.21	21662.98	21592.34	21662.98	21622.21	21512.76
G 85.0	16868.49	17198.50	17158.02	17044.15	17465.53	17608.61	17519.14	17582.17	17714.84	17777.93	17714.84	17582.17	17519.14
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	31580.64	31580.64	31580.64	31580.64	31580.64	31580.64	31580.64	31580.64	31580.64	31580.64	31580.64	31580.64	31580.64
G 5.0	31557.11	31556.63	31559.50	31555.16	31553.24	31557.91	31553.24	31555.16	31559.50	31556.63	31557.11	31562.01	31560.89
G 10.0	31509.91	31503.32	31492.67	31503.54	31510.57	31502.37	31510.57	31503.54	31492.67	31503.32	31509.91	31509.92	31508.50
G 15.0	31418.98	31421.79	31427.54	31416.96	31403.60	31395.76	31403.60	31416.96	31427.54	31421.79	31418.98	31425.51	31429.27
G 20.0	31293.89	31292.58	31284.70	31304.85	31306.96	31274.59	31306.96	31304.85	31284.70	31292.58	31293.89	31287.38	31305.78
G 25.0	31155.46	31162.25	31148.48	31142.16	31134.82	31120.69	31134.82	31142.16	31148.48	31162.25	31155.46	31142.10	31164.26
G 30.0	30970.84	30968.15	30948.16	30965.93	30960.60	30909.38	30960.60	30965.93	30948.16	30968.15	30970.84	30955.03	30975.91
G 35.0	30730.29	30723.96	30703.22	30737.81	30732.77	30655.16	30732.77	30737.81	30703.22	30723.96	30730.29	30713.70	30738.28
G 40.0	30425.28	30436.05	30420.77	30431.44	30411.39	30342.29	30411.39	30431.44	30420.77	30436.05	30425.28	30409.97	30463.32
G 45.0	30050.02	30037.45	30000.40	30060.67	30093.02	30043.30	30093.02	30060.67	30000.40	30037.45	30050.02	30021.72	30056.88
G 50.0	29627.01	29601.40	29526.39	29564.82	29581.19	29512.96	29581.19	29564.82	29526.39	29601.40	29627.01	29605.69	29594.31
G 55.0	29005.98	28988.29	28922.12	29028.69	29049.40	28884.46	29049.40	29028.69	28922.12	28988.29	29005.98	28949.35	29015.87
G 60.0	28214.31	28198.03	28140.05	28117.54	28075.20	27989.50	28075.20	28117.54	28140.05	28198.03	28214.31	28193.64	28223.40
G 65.0	27158.97	27126.26	27061.41	27180.41	27191.55	26997.15	27191.55	27180.41	27061.41	27126.26	27158.97	27159.56	27191.22
G 70.0	25753.61	25749.05	25696.28	25642.23	25639.93	25689.56	25639.93	25642.23	25696.28	25749.05	25753.61	25747.27	25847.79
G 75.0	23903.59	23846.86	23685.90	23880.71	23981.82	23790.67	23981.82	23880.71	23685.90	23846.86	23903.59	23814.06	23979.44
G 80.0	21467.82	21380.37	21252.92	21219.23	21254.23	21312.74	21254.23	21219.23	21252.92	21380.37	21467.82	21512.76	21622.21
G 85.0	17608.61	17465.53	17044.15	17158.02	17198.50	16868.49	17198.50	17158.02	17044.15	17465.53	17608.61	17519.14	17582.17
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-0158-BLA
Name Downlight FORLIGHT leds 4.6W
Measurem.
Code TC-0146-BLA
Name Downlight FORLIGHT leds 4.6W

Luminaire Flux	414.25 lm	Luminaire Power	6.00 W	Efficacy	69.04 lm/W	Efficiency 100.00%
Lamps Flux	414.25 lm	Maximum value	345.81 cd/klm	Position	C=0.00 G=0.00	CG Double Symmetrical

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

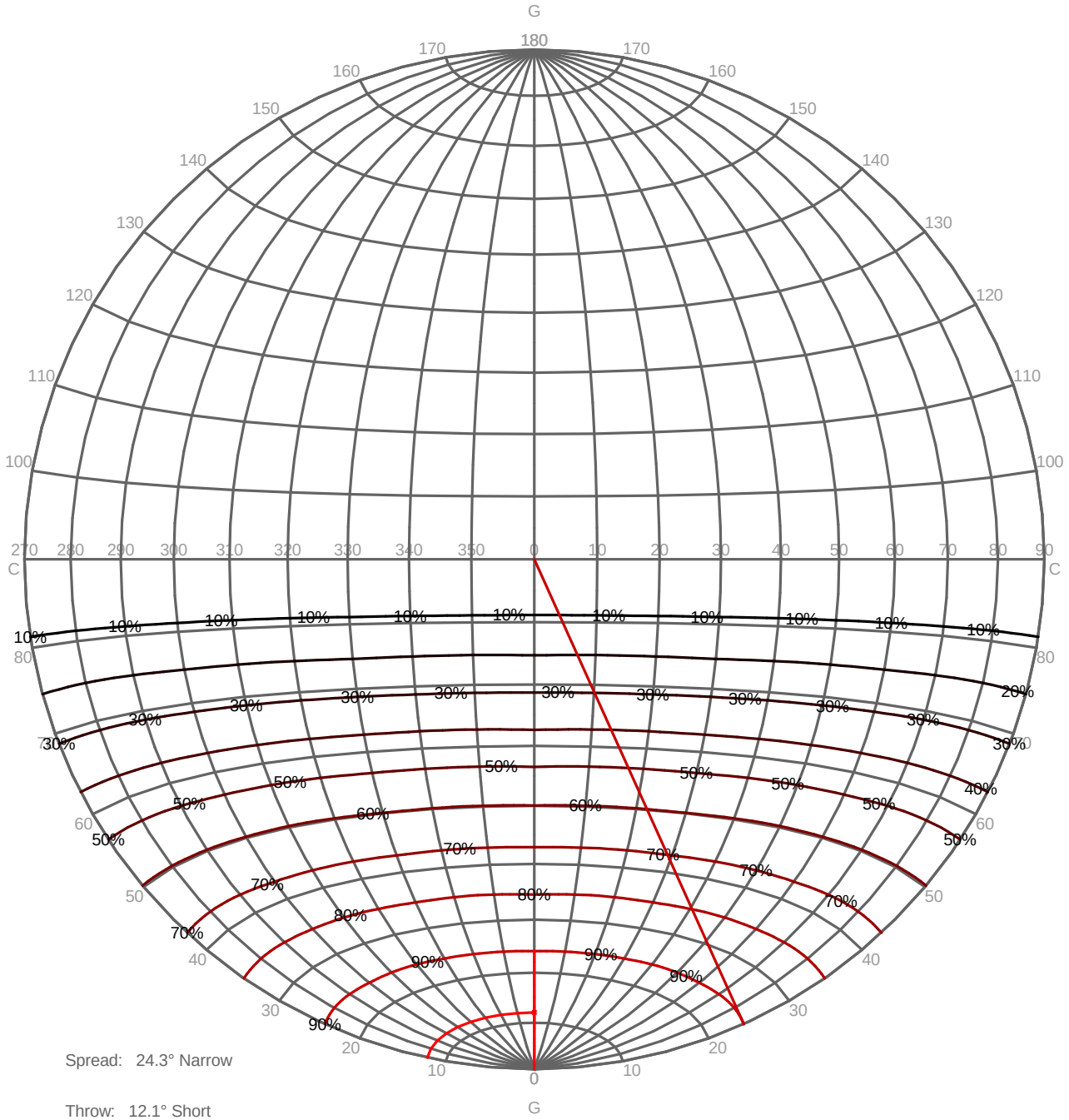
	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	31580.64	31580.64	31580.64	31580.64	31580.64	31580.64	31580.64	31580.64	31580.64	31580.64
G 5.0	31560.32	31560.31	31560.32	31560.89	31562.01	31557.11	31556.63	31559.50	31555.16	31553.24
G 10.0	31505.25	31498.47	31505.25	31508.50	31509.92	31509.91	31503.32	31492.67	31503.54	31510.57
G 15.0	31428.94	31426.41	31428.94	31429.27	31425.51	31418.98	31421.79	31427.54	31416.96	31403.60
G 20.0	31303.88	31266.51	31303.88	31305.78	31287.38	31293.89	31292.58	31284.70	31304.85	31306.96
G 25.0	31173.57	31150.27	31173.57	31164.26	31142.10	31155.46	31162.25	31148.48	31142.16	31134.82
G 30.0	30982.75	30953.99	30982.75	30975.91	30955.03	30970.84	30968.15	30948.16	30965.93	30960.60
G 35.0	30747.29	30716.29	30747.29	30738.28	30713.70	30730.29	30723.96	30703.22	30737.81	30732.77
G 40.0	30465.09	30375.41	30465.09	30463.32	30409.97	30425.28	30436.05	30420.77	30431.44	30411.39
G 45.0	30072.14	30029.74	30072.14	30056.88	30021.72	30050.02	30037.45	30000.40	30060.67	30093.02
G 50.0	29604.34	29617.57	29604.34	29594.31	29605.69	29627.01	29601.40	29526.39	29564.82	29581.19
G 55.0	29030.98	28920.74	29030.98	29015.87	28949.35	29005.98	28988.29	28922.12	29028.69	29049.40
G 60.0	28260.57	28276.86	28260.57	28223.40	28193.64	28214.31	28198.03	28140.05	28117.54	28075.20
G 65.0	27188.95	27121.72	27188.95	27191.22	27159.56	27158.97	27126.26	27061.41	27180.41	27191.55
G 70.0	25879.27	25784.92	25879.27	25847.79	25747.27	25753.61	25749.05	25696.28	25642.23	25639.93
G 75.0	23991.51	23693.77	23991.51	23979.44	23814.06	23903.59	23846.86	23685.90	23880.71	23981.82
G 80.0	21662.98	21592.34	21662.98	21622.21	21512.76	21467.82	21380.37	21252.92	21219.23	21254.23
G 85.0	17714.84	17777.93	17714.84	17582.17	17519.14	17608.61	17465.53	17044.15	17158.02	17198.50
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-0158-BLA
Name Downlight FORLIGHT leds 4.6W
Measurem.
Code TC-0146-BLA
Name Downlight FORLIGHT leds 4.6W

Luminaire Flux	414.25 lm	Luminaire Power	6.00 W	Efficacy	69.04 lm/W	Efficiency	100.00%
Lamps Flux	414.25 lm	Maximum value	345.81 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

PERCENTAGE ISOCANDLES

Projection: Equal Area SLI (glare) 7.1 Tight Tilting Angle:0°



Spread: 24.3° Narrow

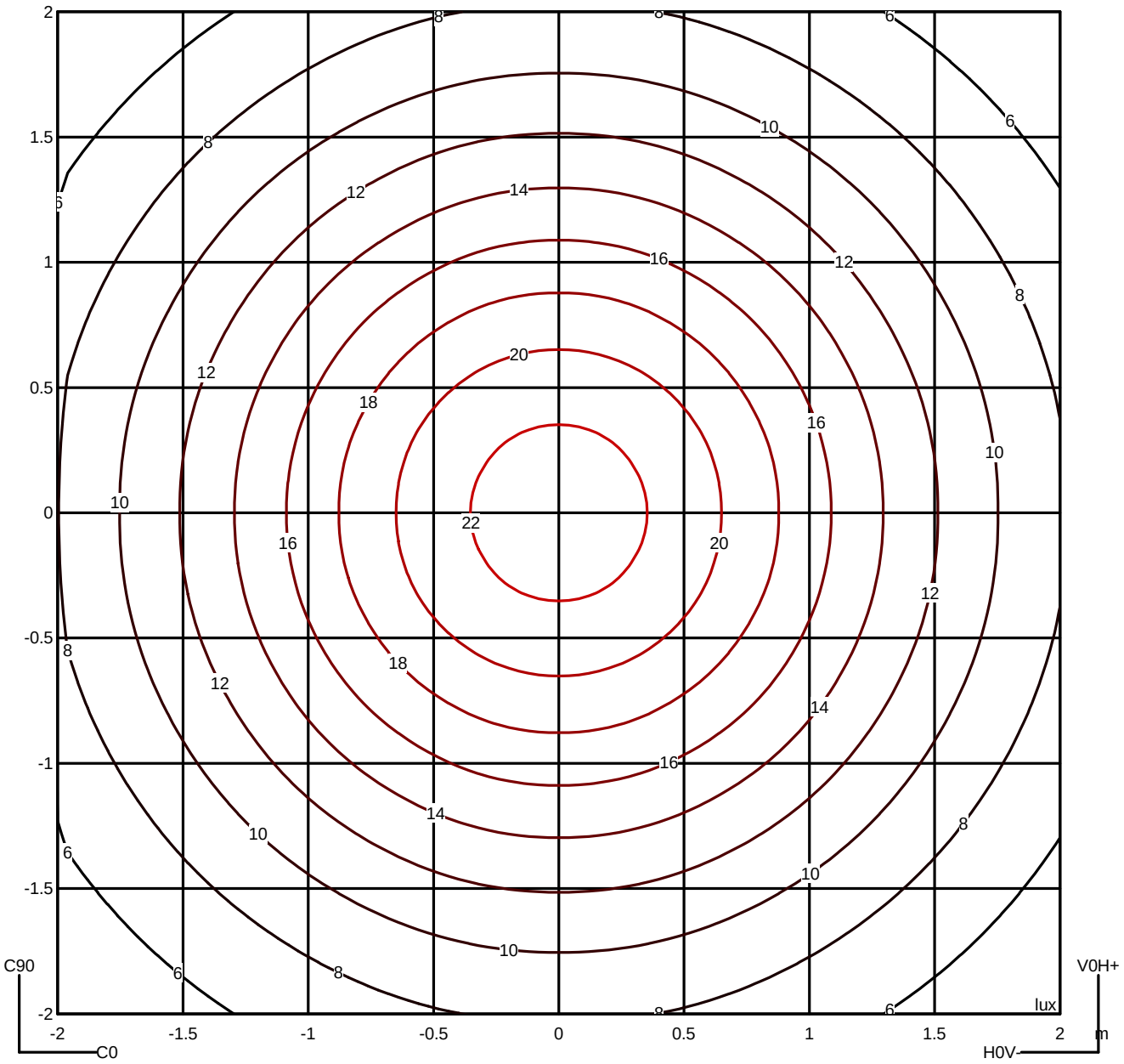
Throw: 12.1° Short

Luminaire
Code TC-0158-BLA
Name Downlight FORLIGHT leds 4.6W
Measurem.
Code TC-0146-BLA
Name Downlight FORLIGHT leds 4.6W

Luminaire Flux	414.25 lm	Luminaire Power	6.00 W	Efficacy	69.04 lm/W	Efficiency	100.00%
Lamps Flux	414.25 lm	Maximum value	345.81 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-0158-BLA
Name Downlight FORLIGHT leds 4.6W
Measurem.
Code TC-0146-BLA
Name Downlight FORLIGHT leds 4.6W

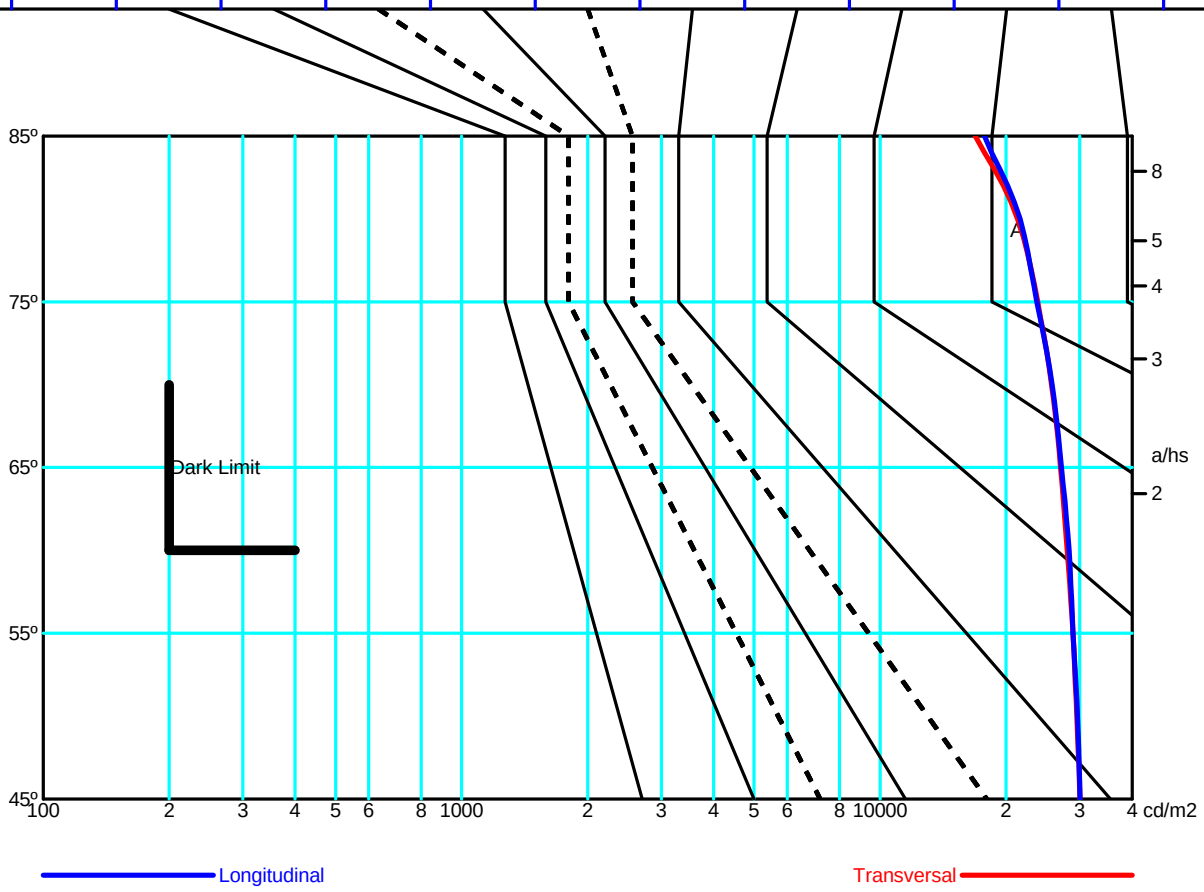
Luminaire Flux	414.25 lm	Luminaire Power	6.00 W	Efficacy	69.04 lm/W	Efficiency	100.00%
Lamps Flux	414.25 lm	Maximum value	345.81 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

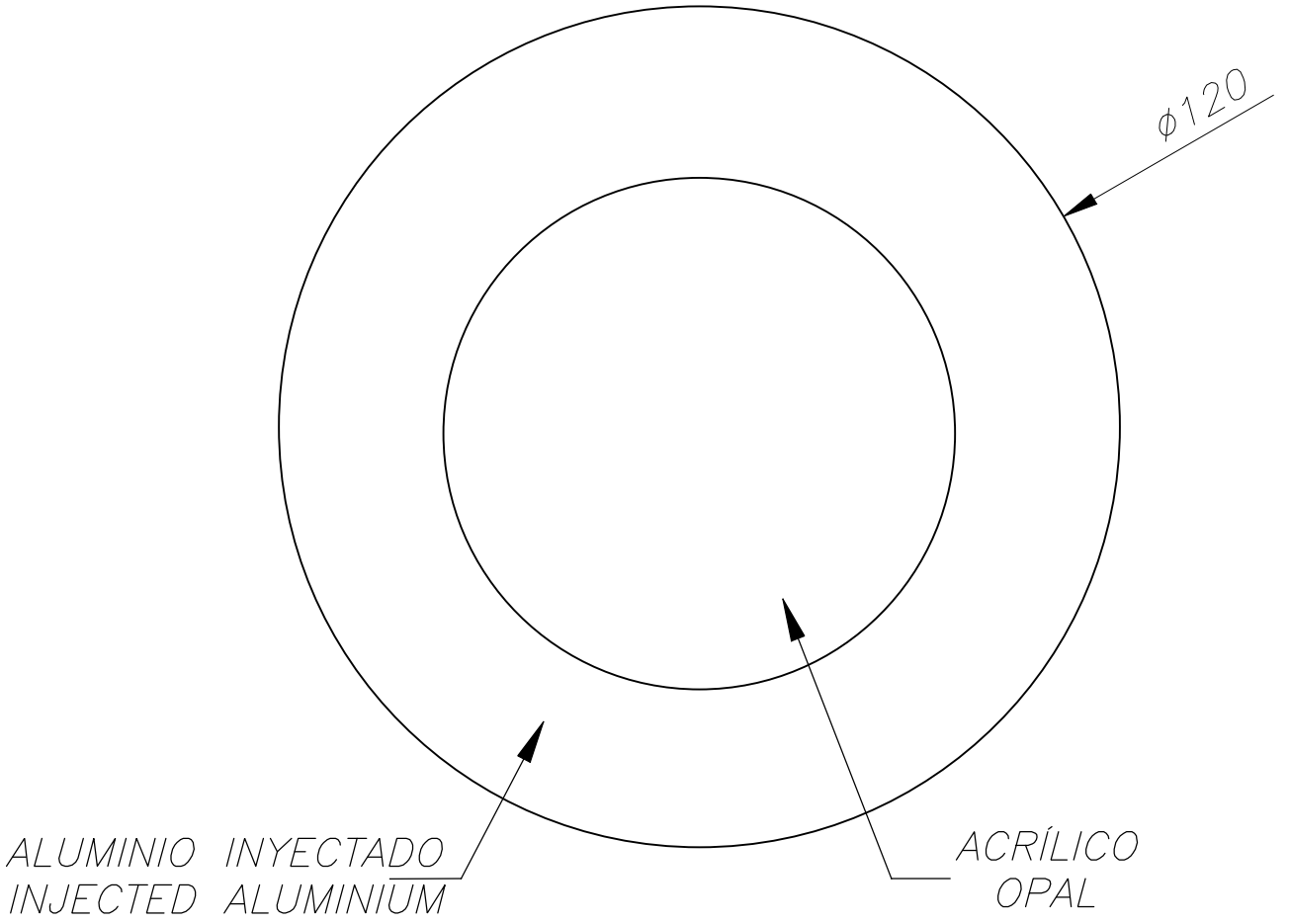
Average Luminance [cd/m²]

	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	30043	29513	28884	27989	26997	25690	23791	21313	16868	---
90.0°	30030	29618	28921	28277	27122	25785	23694	21592	17778	---

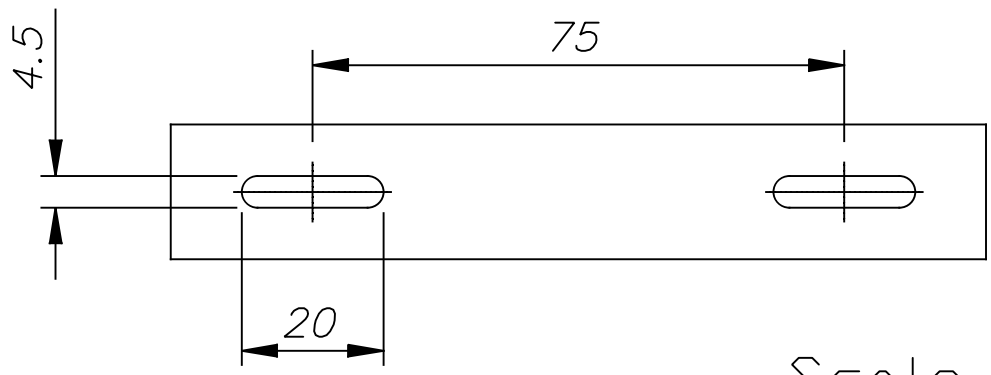
Flush mounted or longitudinal view

		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





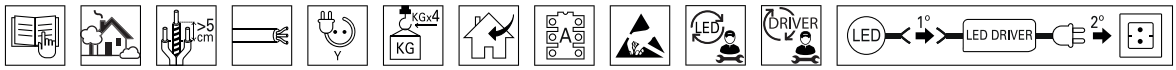
PLANTILLA DE INSTALACIÓN
INSTALLATION TEMPLATE

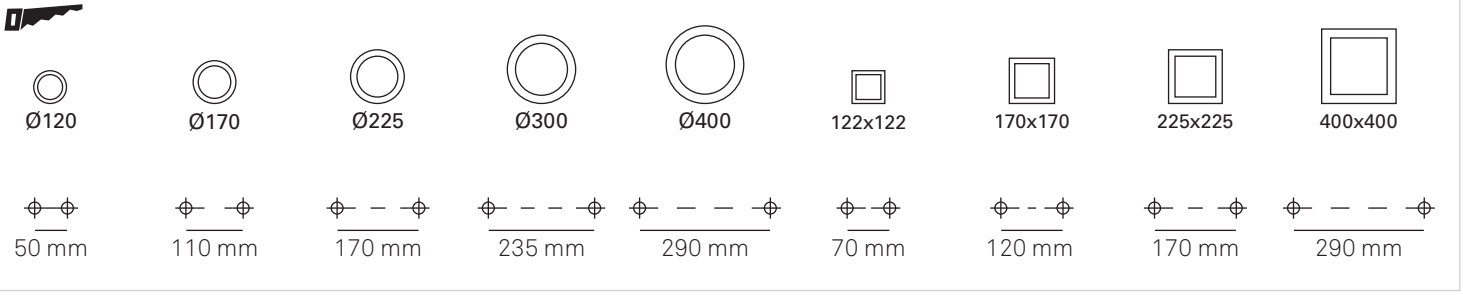


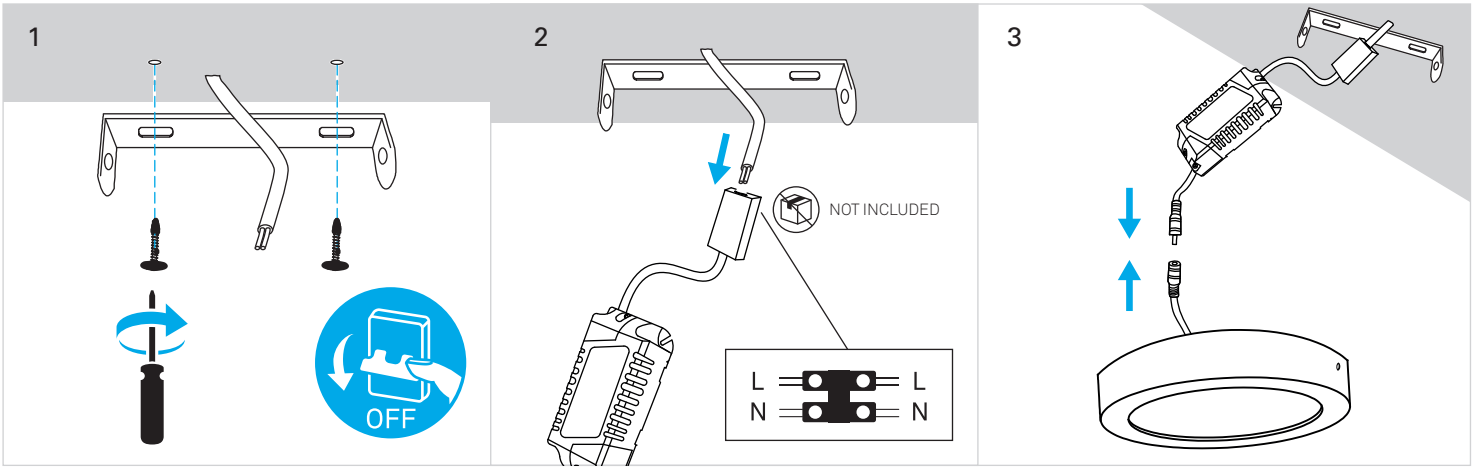
Scale 1:1

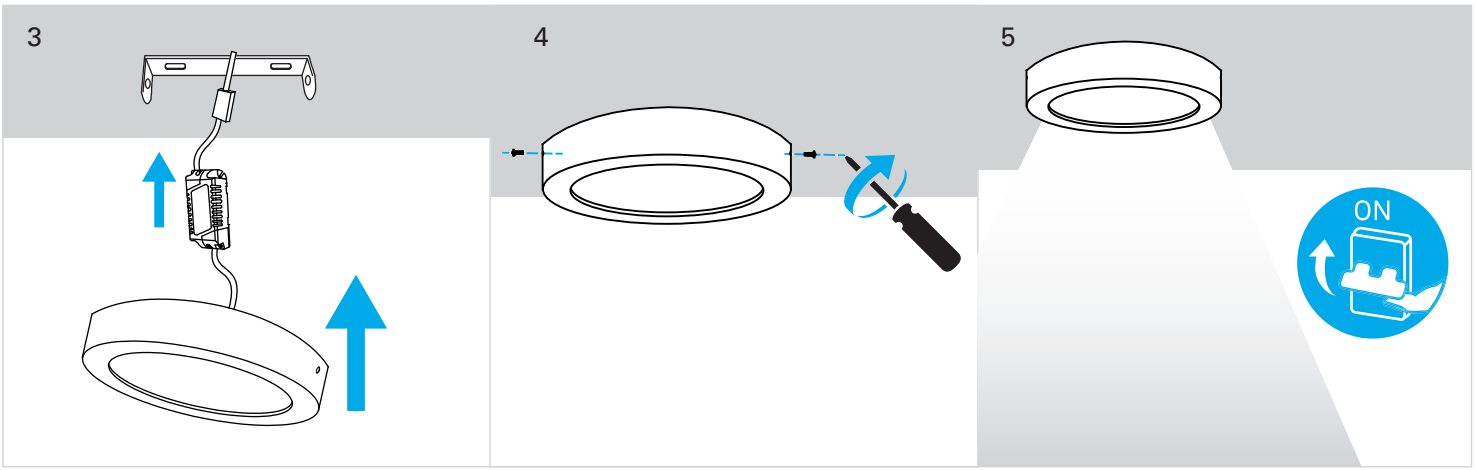
11-02-16

Easy


>5 cm
KGx4
KG
Y
A
LED
DRIVER
LED
1°
LED DRIVER
2°


Ø120
Ø170
Ø225
Ø300
Ø400
122x122
170x170
225x225
400x400
50 mm
110 mm
170 mm
235 mm
290 mm
70 mm
120 mm
170 mm
290 mm


1
OFF
2
NOT INCLUDED
L
N
L
N
3


3
4
5
ON