



Mix

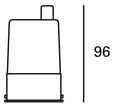
3D File
Photometry
Revit



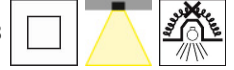
TC-0422-BLA

Downlight IP23 Mix LED 10.4 LED warm-white 3000K White Black 836

TECHNICAL FEATURES



IP23



Power (W) : 10.4W

Total power consumption of light (W) : 11.8W

Raw lumens : 836

Raw lm/W : 71

Colour temperature : LED warm-white 3000K

Lens / reflector angle : FLOOD 56°

Structure material : Aluminium

Structure finish : Blanco

Diffuser material : Glass

Diffuser finish : Transparent

Useful life : 36.000h L70B30

Equipment included : Yes, electronic

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

Warranty : 5 Years

Max. temperature : 25°C

Energy efficiency : LED A++

LUMINOTECHNIC FEATURES

Light source: LED

CRI: 80

MacAdam steps: 3

Photobiological risk: RG1

LOGISTICS

Net weight (kg): 0.3

Packaged weight (kg): 0.35

Packaging: 100mm x 65mm x 85mm





TC-1900-BLA

Structure material: Aluminium
 Dimensions: 81 x NA x 35
 Net weight (kg): 0.04



TC-1901-BLA

Structure material: Aluminium
 Dimensions: 95 x NA x 34
 Net weight (kg): 0.09



TC-0200-BLA

Structure material: Aluminium
 Dimensions: 80 x NA x 38
 Net weight (kg): 0.32



TC-0201-BLA

Structure material: Aluminium
 Dimensions: 105 x NA x 52
 Net weight (kg): 0.08



TC-0220-BLA

Structure material: Aluminium
 Dimensions: 96 x 37 x NA
 Net weight (kg): 0.12



TC-0302-BLA

Structure material: Aluminium
 Dimensions: 95 x 42 x 95
 Net weight (kg): 0.1



TC-0303-BLA

Structure material: Aluminium
 Dimensions: 94 x 53 x NA
 Net weight (kg): 0.1



TC-0476-BLA

Structure material: Aluminium
 Dimensions: \varnothing 91 x NA x 42
 Net weight (kg): 0.11

Luminaire

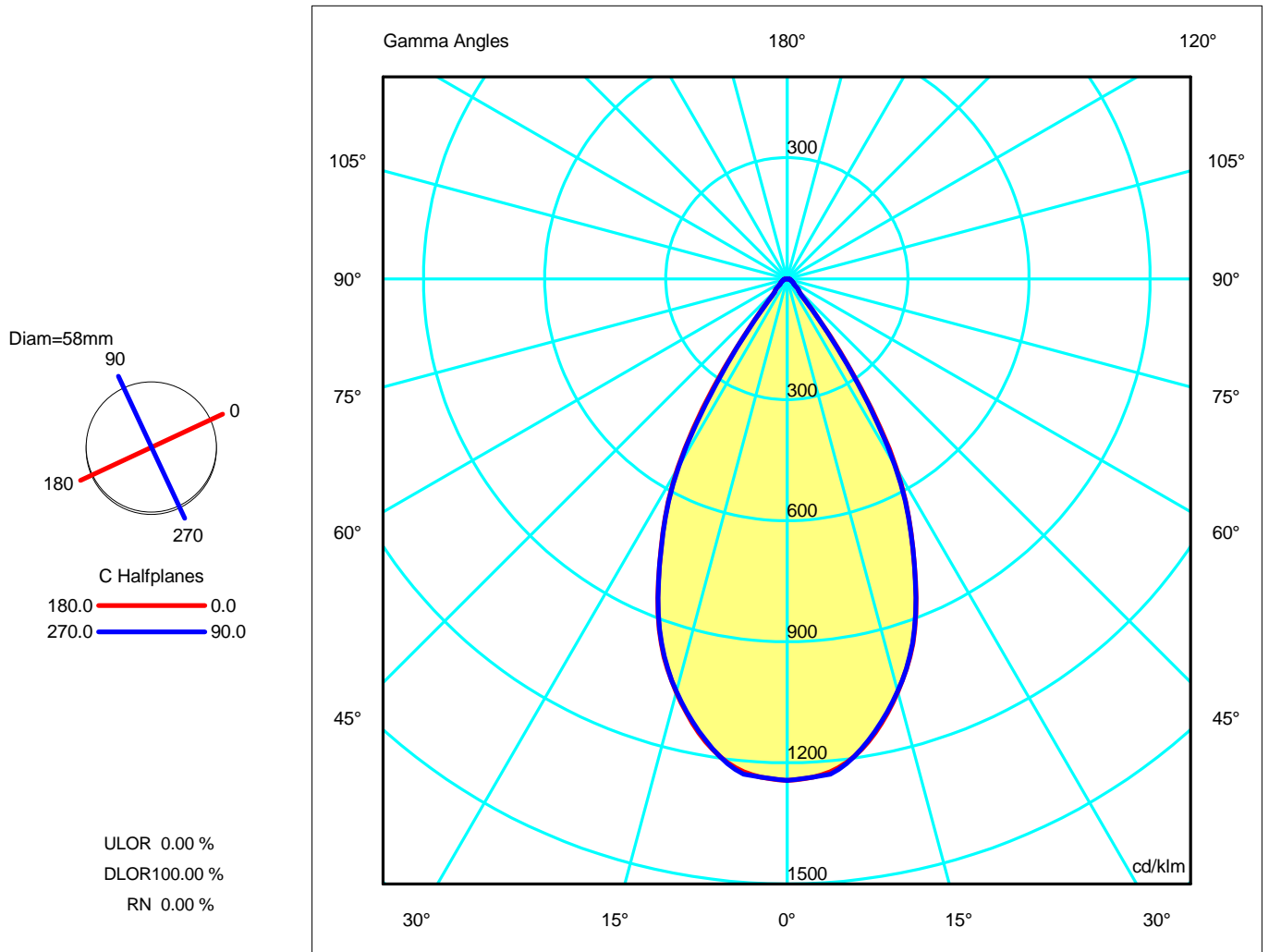
Code TC-0422-BLA
Name DOWNLIGHT LED

Measur.

Code CL116A17F312G
Name DOWNLIGHT LED

Luminaire Flux	835.55 lm	Luminaire Power	11.93 W	Efficacy	70.04 lm/W	Efficiency	100.00%
Lamps Flux	835.55 lm	Maximum value	1243.18 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical
Round Luminaire Round Luminous Area		Diam. Diam.	58 mm 43 mm	Height Height	2 mm 0 mm		
Horizontal Luminous Area Emitting area on Plane 0° Emitting area on Plane 90°		0.001452 m2 0.000000 m2 0.000000 m2		Emitting area on Plane 180° Emitting area on Plane 270° Glare area at 76°		0.000000 m2 0.000000 m2 0.000351 m2	
Coordinate system Date Measurement Distance		CG 24-08-2017 0.00		Symmetry Type Maximum Gamma Angle Measurement Flux		Double Symmetrical 90 835.55 lm	
Operator Temperature Humidity Notes		Asselum T3 25.00 °C 60.00 %		Source Voltage [V] Source current [A] Photocell			

Line	Code	Luminaire Lamps Name	Flux [lm]	Pow. [W]	Q.ty
	TC-0422-BLA	TC-0422-BLA	835.55	11.93	1
C.I.E. F UTE	93 97 99 100 100 1.00 A	D DIN 5040 B NBN	A60 BZ 1		





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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	1243.18	1243.18	1243.18	1243.18	1243.18	1243.18	1243.18
G 5.0	1226.55	1226.36	1228.76	1227.92	1230.69	1230.60	1232.44
G 10.0	1164.74	1165.30	1163.28	1163.65	1161.74	1161.44	1161.37
G 15.0	1060.01	1059.96	1061.20	1058.31	1059.46	1056.69	1058.72
G 20.0	925.61	926.89	923.88	925.73	919.72	925.10	923.26
G 25.0	738.53	734.14	737.24	737.19	736.98	737.44	737.30
G 30.0	542.01	543.41	536.11	541.93	535.56	542.22	534.76
G 35.0	274.54	263.73	265.47	267.30	263.95	264.34	259.46
G 40.0	75.77	75.53	74.26	74.50	73.51	73.92	73.36
G 45.0	42.69	42.71	41.64	41.61	40.93	41.24	40.67
G 50.0	26.27	26.14	25.98	25.76	25.52	25.60	25.63
G 55.0	20.22	20.09	19.93	19.87	19.75	19.84	19.75
G 60.0	16.11	16.12	16.07	15.94	15.88	15.96	15.91
G 65.0	13.10	13.06	13.00	12.91	12.85	12.83	12.84
G 70.0	10.13	10.08	10.02	9.92	9.85	9.82	9.85
G 75.0	8.00	7.99	7.95	7.89	7.81	7.77	7.71
G 80.0	6.12	6.10	6.07	6.02	5.96	5.94	5.93
G 85.0	4.53	4.50	4.48	4.46	4.43	4.43	4.39
G 90.0	0.02	0.02	0.02	0.02	0.02	0.02	0.02

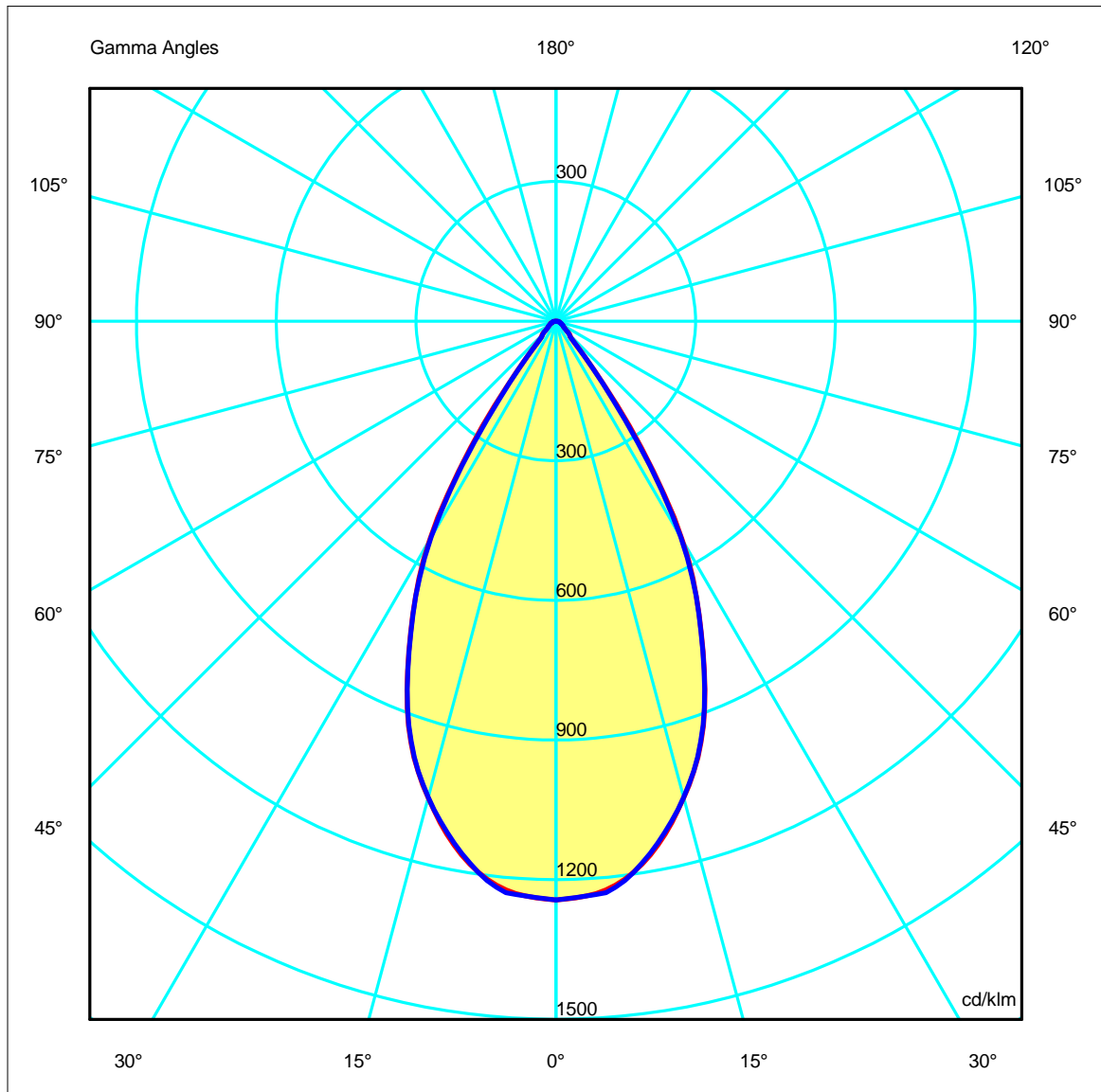
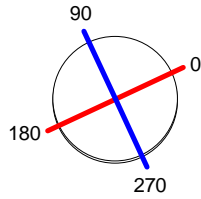
Luminaire
 Code TC-0422-BLA
 Name DOWNLIGHT LED
Measurem.
 Code CL116A17F312G
 Name DOWNLIGHT LED

Luminaire Flux	835.55 lm	Luminaire Power	11.93 W	Efficacy	70.04 lm/W	Efficiency	100.00%
Lamps Flux	835.55 lm	Maximum value	1243.18 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=58mm

C Halfplanes

180.0 ——— 0.0
 270.0 ——— 90.0



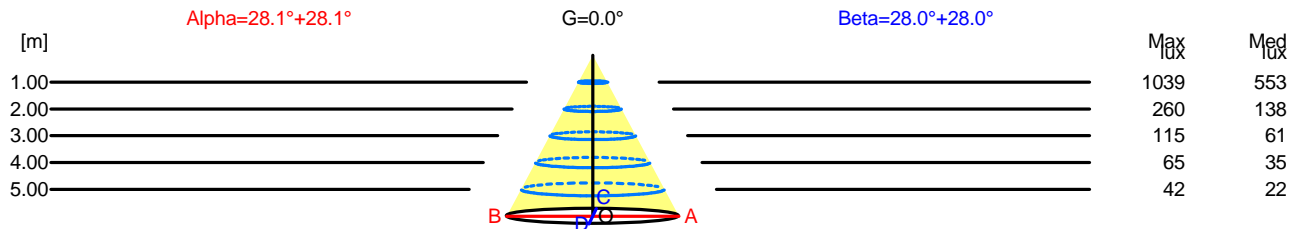
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Width at 50.00 % of Max Intensity

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	0.53	1.07	1.60	2.14	2.67	OC	0.53	1.07	1.60	2.13	2.66
OB	0.53	1.07	1.60	2.14	2.67	OD	0.53	1.07	1.60	2.13	2.66

	Luminous Intensities [cd/klm]									
	0	5	15	25	35	45	55	65	75	85
OA	1038.74	1024.85	885.69	617.08	229.39	35.67	16.90	10.94	6.68	3.78
OB	1038.74	1024.85	885.69	617.08	229.39	35.67	16.90	10.94	6.68	3.78
OC	1038.74	1029.77	884.61	616.05	216.80	33.98	16.50	10.73	6.45	3.67
OD	1038.74	1029.77	884.61	616.05	216.80	33.98	16.50	10.73	6.45	3.67



H[m]	D[m]	Max lux	Med lux	Alpha=28.1°+28.1°	G=0.0
1.00	1.07	1039	553		
2.00	2.14	260	138		
3.00	3.21	115	61		
4.00	4.28	65	35		
5.00	5.35	42	22		

H[m]	D[m]	Max lux	Med lux	Beta=28.0°+28.0°	G=0.0
1.00	1.07	1039	553		
2.00	2.13	260	138		
3.00	3.20	115	61		
4.00	4.26	65	35		
5.00	5.33	42	22		



Luminaire

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Name DOWNLIGHT LED

Measurement

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Name DOWNLIGHT LED

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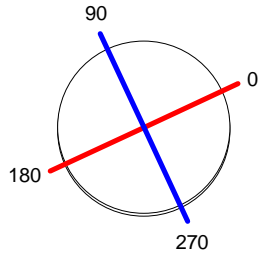
UGR
S = 0.250

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	21.2	21.9	21.4	22.1	22.2	21.1	21.8	21.3	22.0	22.2
x=2H y=3H	21.4	22.1	21.7	22.3	22.5	21.3	22.0	21.6	22.2	22.5
x=2H y=4H	21.6	22.2	21.9	22.4	22.6	21.5	22.1	21.8	22.4	22.6
x=2H y=6H	21.8	22.4	22.1	22.7	22.9	21.7	22.3	22.1	22.6	22.9
x=2H y=8H	22.0	22.5	22.3	22.8	23.0	21.9	22.4	22.2	22.7	23.0
x=2H y=12H	22.2	22.7	22.5	23.0	23.2	22.1	22.6	22.4	22.9	23.2
x=4H y=2H	21.1	21.7	21.4	22.0	22.2	21.1	21.7	21.4	21.9	22.2
x=4H y=3H	21.5	22.1	21.9	22.4	22.6	21.5	22.0	21.8	22.3	22.6
x=4H y=4H	21.9	22.3	22.2	22.6	22.9	21.8	22.2	22.1	22.5	22.9
x=4H y=6H	22.2	22.6	22.6	23.0	23.3	22.1	22.5	22.5	22.9	23.3
x=4H y=8H	22.5	22.8	22.9	23.2	23.5	22.4	22.7	22.8	23.1	23.5
x=4H y=12H	22.8	23.1	23.2	23.5	23.8	22.7	23.0	23.1	23.4	23.8
x=8H y=4H	22.0	22.3	22.4	22.7	23.0	21.9	22.2	22.3	22.6	23.0
x=8H y=6H	22.5	22.8	23.0	23.2	23.5	22.4	22.7	22.9	23.1	23.5
x=8H y=8H	22.9	23.1	23.3	23.5	23.9	22.8	23.0	23.2	23.4	23.9
x=8H y=12H	23.3	23.5	23.8	24.0	24.4	23.2	23.4	23.7	23.9	24.4
x=12H y=4H	22.0	22.3	22.4	22.7	23.0	21.9	22.2	22.3	22.6	23.0
x=12H y=6H	22.6	22.8	23.0	23.2	23.6	22.5	22.7	22.9	23.1	23.6
x=12H y=8H	23.0	23.2	23.5	23.7	24.1	22.9	23.1	23.4	23.6	24.1

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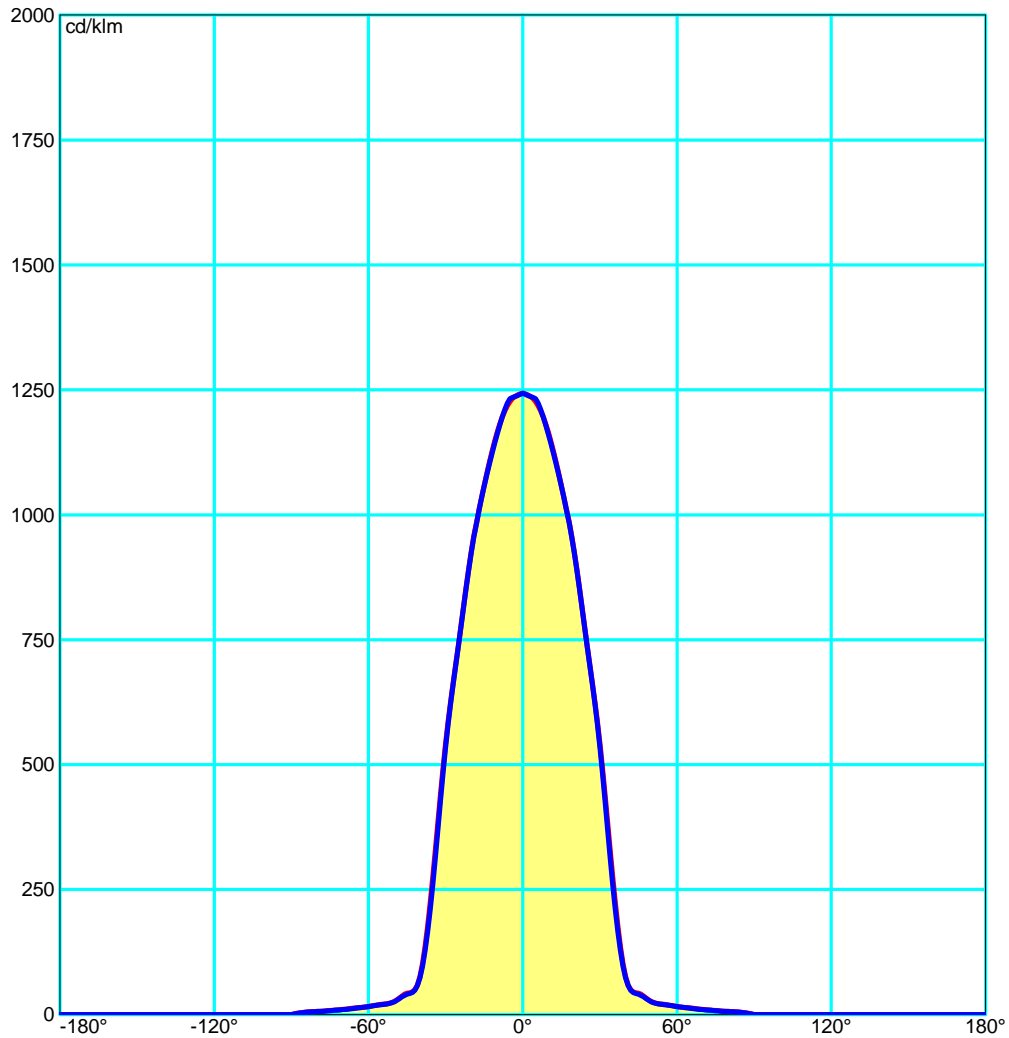
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Lamps Flux	835.55 lm	Maximum value	1243.18 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=58mm



C Halfplanes

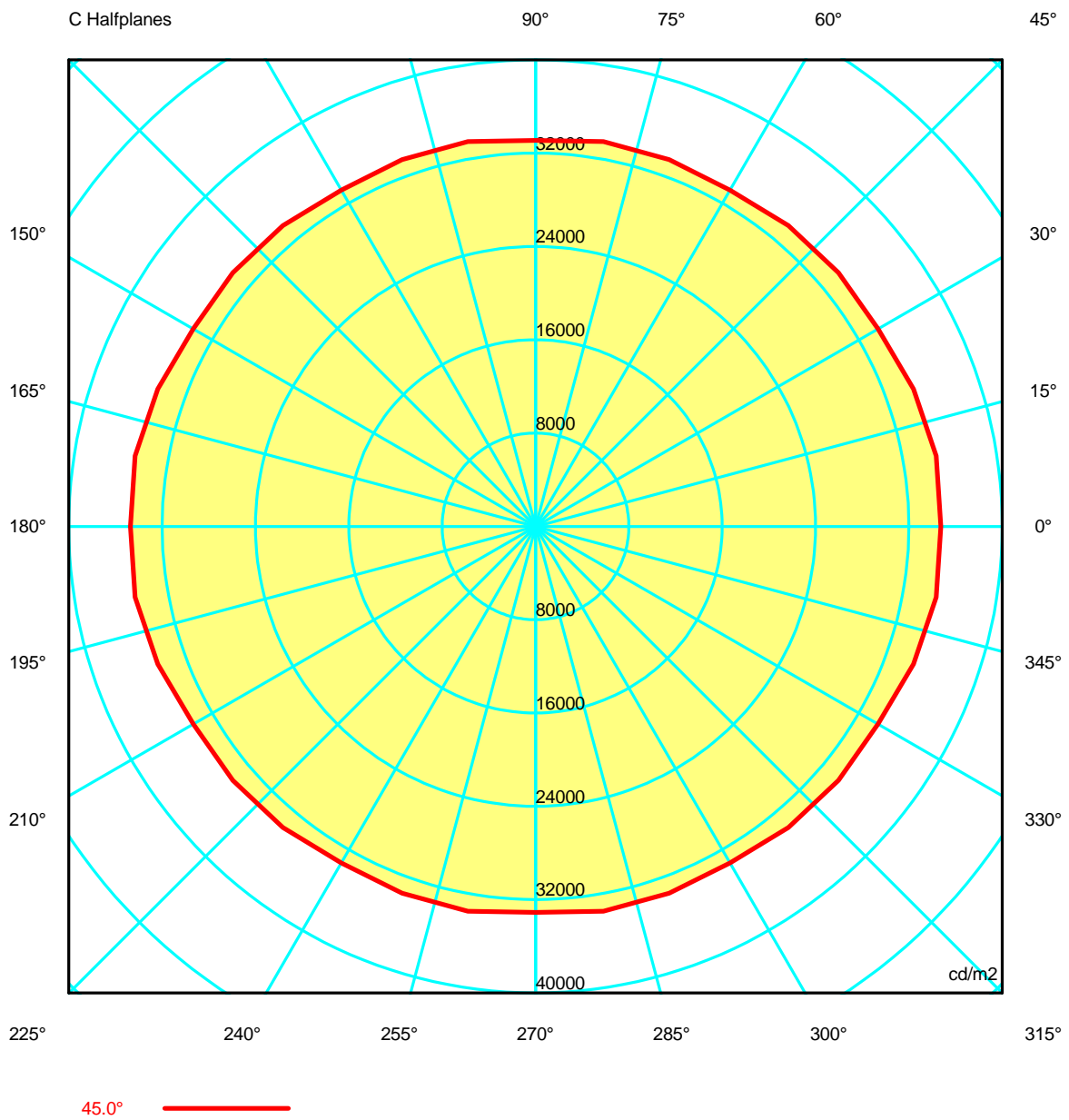
180.0 ———— 0.0
 270.0 ———— 90.0



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Lamps Flux	835.55 lm	Maximum value	1243.18 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Luminance





Luminaire

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Name DOWNLIGHT LED

Measuram.

Code CL116A17F312G
Name DOWNLIGHT LED

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Lamps Flux	835.55 lm	Maximum value	1243.18 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	715288.27	715288.27	715288.27	715288.27	715288.27	715288.27	715288.27	715288.27	715288.27	715288.27	715288.27	715288.27	715288.27
G 5.0	708415.76	708122.36	708796.06	709687.20	709275.37	709622.11	710802.36	710819.79	710933.21	711817.35	710933.21	710819.79	710802.36
G 10.0	680493.63	680907.82	680436.47	679639.75	679816.75	679583.91	678737.43	678621.17	678548.90	678520.61	678548.90	678621.17	678737.43
G 15.0	631408.16	631225.92	631626.98	632118.86	630851.99	630536.85	631080.27	629944.56	629468.17	630640.22	629468.17	629944.56	631080.27
G 20.0	566746.61	567659.89	566837.32	565684.67	566821.06	565620.17	563136.59	565181.75	566724.54	565304.61	566724.54	565181.75	563136.59
G 25.0	468854.70	466474.83	466466.29	468033.03	468011.77	467863.89	467867.56	468082.76	468178.67	468071.44	468178.67	468082.76	467867.56
G 30.0	360096.51	361604.90	359182.26	356178.90	359109.98	358922.53	355814.46	358820.05	359826.18	355284.64	359826.18	358820.05	355814.46
G 35.0	192834.90	186933.73	184887.34	186464.38	187829.89	187024.59	185397.67	185667.87	184990.15	182246.67	184990.15	185667.87	185397.67
G 40.0	56909.55	56789.75	56387.41	55779.56	55930.02	55749.47	55215.52	55393.01	55488.25	55100.26	55488.25	55393.01	55215.52
G 45.0	34735.48	34864.12	34471.66	33884.49	33867.80	33687.40	33305.52	33469.59	33501.20	33093.24	33501.20	33469.59	33305.52
G 50.0	23514.29	23435.94	23350.37	23252.77	23134.77	22969.19	22839.56	22875.42	22922.06	22938.92	22922.06	22875.42	22839.56
G 55.0	20283.89	20205.24	20093.02	19987.84	19957.02	19889.44	19814.54	19870.35	19893.08	19812.71	19893.08	19870.35	19814.54
G 60.0	18537.51	18544.68	18539.61	18497.25	18399.15	18303.42	18277.29	18340.03	18365.02	18310.06	18365.02	18340.03	18277.29
G 65.0	17828.37	17798.47	17755.69	17693.53	17615.85	17542.52	17491.00	17469.09	17471.45	17487.13	17471.45	17469.09	17491.00
G 70.0	17034.93	16979.18	16925.72	16856.04	16748.25	16647.20	16574.20	16521.28	16523.29	16577.43	16523.29	16521.28	16574.20
G 75.0	17784.50	17768.20	17729.02	17663.27	17580.58	17469.63	17361.03	17305.08	17243.72	17149.99	17243.72	17305.08	17361.03
G 80.0	20276.95	20239.09	20192.81	20118.57	19998.75	19867.25	19760.89	19698.26	19665.37	19644.95	19665.37	19698.26	19760.89
G 85.0	29875.37	29763.27	29659.29	29573.09	29501.03	29385.60	29275.62	29270.14	29197.74	28999.93	29197.74	29270.14	29275.62
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

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Lamps Flux	835.55 lm	Maximum value	1243.18 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

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	715288.27	715288.27	715288.27	715288.27	715288.27	715288.27	715288.27	715288.27	715288.27	715288.27	715288.27	715288.27	715288.27
G 5.0	709622.11	709275.37	709687.20	708796.06	708122.36	708415.76	708122.36	708796.06	709687.20	709275.37	709622.11	710802.36	710819.79
G 10.0	679583.91	679816.75	679639.75	680436.47	680907.82	680493.63	680907.82	680436.47	679639.75	679816.75	679583.91	678737.43	678621.17
G 15.0	630536.85	630851.99	632118.86	631626.98	631225.92	631408.16	631225.92	631626.98	632118.86	630851.99	630536.85	631080.27	629944.56
G 20.0	565620.17	566821.06	565684.67	566837.32	567659.89	566746.61	567659.89	566837.32	565684.67	566821.06	565620.17	563136.59	565181.75
G 25.0	467863.89	468011.77	468033.03	466466.29	466474.83	468854.70	466474.83	466466.29	468033.03	468011.77	467863.89	467867.56	468082.76
G 30.0	358922.53	359109.98	356178.90	359182.26	361604.90	360096.51	361604.90	359182.26	356178.90	359109.98	358922.53	355814.46	358820.05
G 35.0	187024.59	187829.89	186464.38	184887.34	186933.73	192834.90	186933.73	184887.34	186464.38	187829.89	187024.59	185397.67	185667.87
G 40.0	55749.47	55930.02	55779.56	56387.41	56789.75	56909.55	56789.75	56387.41	55779.56	55930.02	55749.47	55215.52	55393.01
G 45.0	33687.40	33867.80	33884.49	34471.66	34864.12	34735.48	34864.12	34471.66	33884.49	33867.80	33687.40	33305.52	33469.59
G 50.0	22969.19	23134.77	23252.77	23350.37	23435.94	23514.29	23435.94	23350.37	23252.77	23134.77	22969.19	22839.56	22875.42
G 55.0	19889.44	19957.02	19987.84	20093.02	20205.24	20283.89	20205.24	20093.02	19987.84	19957.02	19889.44	19814.54	19870.35
G 60.0	18303.42	18399.15	18497.25	18539.61	18544.68	18537.51	18544.68	18539.61	18497.25	18399.15	18303.42	18277.29	18340.03
G 65.0	17542.52	17615.85	17693.53	17755.69	17798.47	17828.37	17798.47	17755.69	17693.53	17615.85	17542.52	17491.00	17469.09
G 70.0	16647.20	16748.25	16856.04	16925.72	16979.18	17034.93	16979.18	16925.72	16856.04	16748.25	16647.20	16574.20	16521.28
G 75.0	17469.63	17580.58	17663.27	17729.02	17768.20	17784.50	17768.20	17729.02	17663.27	17580.58	17469.63	17361.03	17305.08
G 80.0	19867.25	19998.75	20118.57	20192.81	20239.09	20276.95	20239.09	20192.81	20118.57	19998.75	19867.25	19760.89	19698.26
G 85.0	29385.60	29501.03	29573.09	29659.29	29763.27	29875.37	29763.27	29659.29	29573.09	29501.03	29385.60	29275.62	29270.14
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



Luminaire

Code TC-0422-BLA
Name DOWNLIGHT LED

Measur.

Code CL116A17F312G
Name DOWNLIGHT LED

Luminaire Flux	835.55 lm	Luminaire Power	11.93 W	Efficacy	70.04 lm/W	Efficiency	100.00%
Lamps Flux	835.55 lm	Maximum value	1243.18 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Luminance cd/m2 Table 3/3

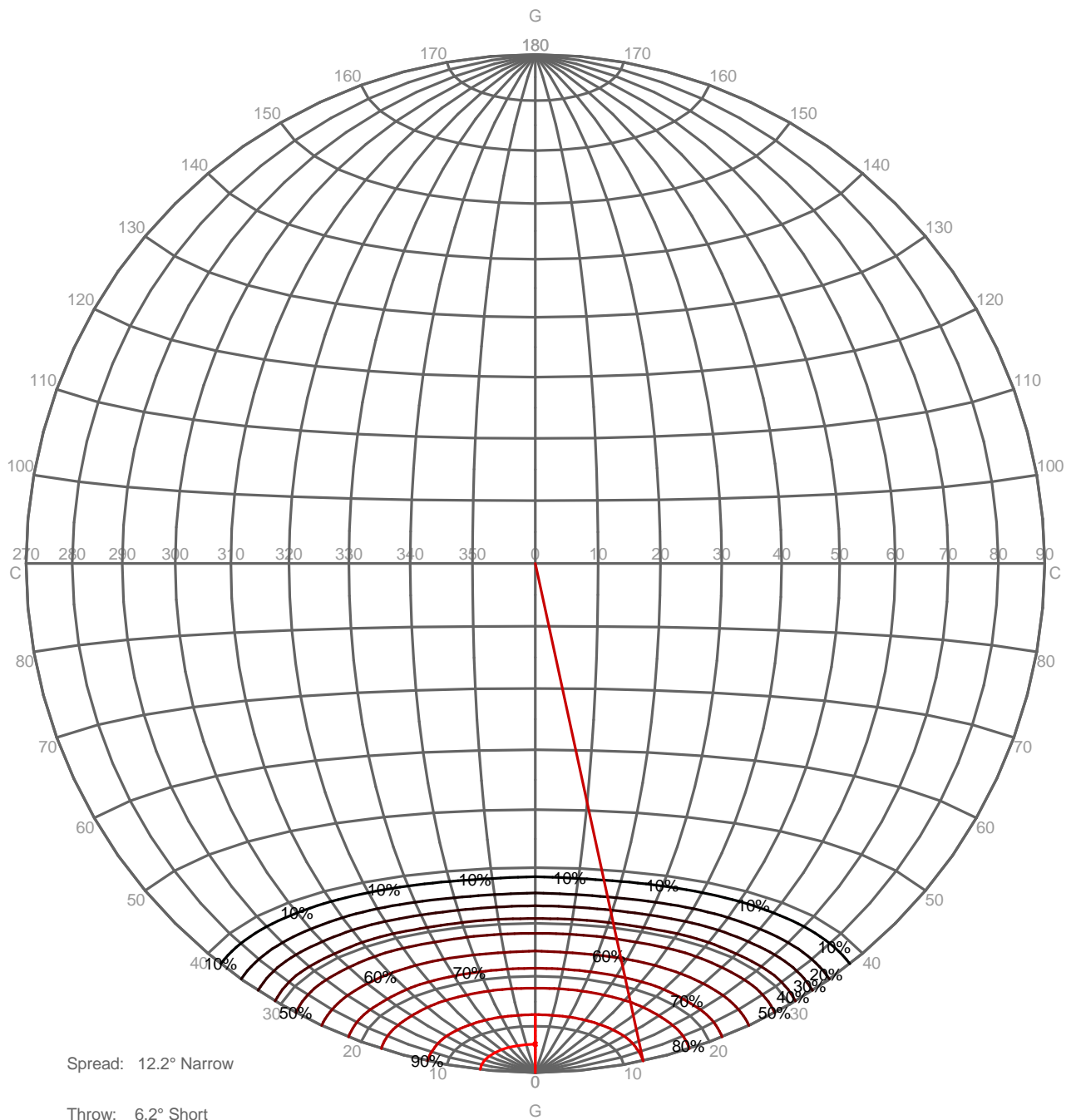
	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	715288.27	715288.27	715288.27	715288.27	715288.27	715288.27	715288.27	715288.27	715288.27	715288.27
G 5.0	710933.21	711817.35	710933.21	710819.79	710802.36	709622.11	709275.37	709687.20	708796.06	708122.36
G 10.0	678548.90	678520.61	678548.90	678621.17	678737.43	679583.91	679816.75	679639.75	680436.47	680907.82
G 15.0	629468.17	630640.22	629468.17	629944.56	631080.27	630536.85	630851.99	632118.86	631626.98	631225.92
G 20.0	566724.54	565304.61	566724.54	565181.75	563136.59	565620.17	566821.06	565684.67	566837.32	567659.89
G 25.0	468178.67	468071.44	468178.67	468082.76	467867.56	467863.89	468011.77	468033.03	466466.29	466474.83
G 30.0	359826.18	355284.64	359826.18	358820.05	355814.46	358922.53	359109.98	356178.90	359182.26	361604.90
G 35.0	184990.15	182246.67	184990.15	185667.87	185397.67	187024.59	187829.89	186464.38	184887.34	186933.73
G 40.0	55488.25	55100.26	55488.25	55393.01	55215.52	55749.47	55930.02	55779.56	56387.41	56789.75
G 45.0	33501.20	33093.24	33501.20	33469.59	33305.52	33687.40	33867.80	33884.49	34471.66	34864.12
G 50.0	22922.06	22938.92	22922.06	22875.42	22839.56	22969.19	23134.77	23252.77	23350.37	23435.94
G 55.0	19893.08	19812.71	19893.08	19870.35	19814.54	19889.44	19957.02	19987.84	20093.02	20205.24
G 60.0	18365.02	18310.06	18365.02	18340.03	18277.29	18303.42	18399.15	18497.25	18539.61	18544.68
G 65.0	17471.45	17487.13	17471.45	17469.09	17491.00	17542.52	17615.85	17693.53	17755.69	17798.47
G 70.0	16523.29	16577.43	16523.29	16521.28	16574.20	16647.20	16748.25	16856.04	16925.72	16979.18
G 75.0	17243.72	17149.99	17243.72	17305.08	17361.03	17469.63	17580.58	17663.27	17729.02	17768.20
G 80.0	19665.37	19644.95	19665.37	19698.26	19760.89	19867.25	19998.75	20118.57	20192.81	20239.09
G 85.0	29197.74	28999.93	29197.74	29270.14	29275.62	29385.60	29501.03	29573.09	29659.29	29763.27
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-0422-BLA
 Name DOWNLIGHT LED
Measur.
 Code CL116A17F312G
 Name DOWNLIGHT LED

Luminaire Flux	835.55 lm	Luminaire Power	11.93 W	Efficacy	70.04 lm/W	Efficiency	100.00%
Lamps Flux	835.55 lm	Maximum value	1243.18 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

PERCENTAGE ISOCANDLES

Projection: Equal Area SLI 7.9 Tight Tilting Angle:0°

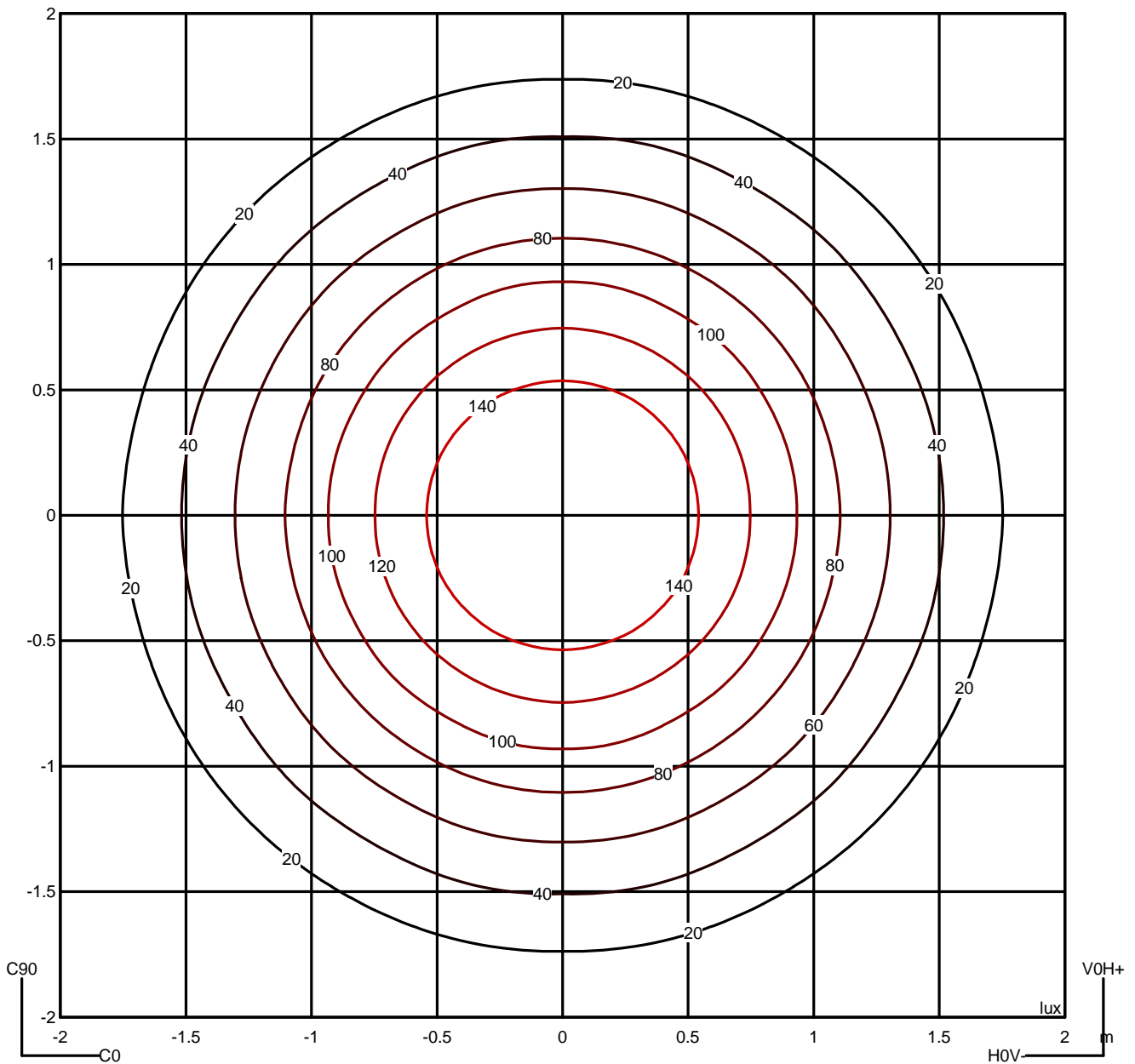


Luminaire
 Code TC-0422-BLA
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Luminaire Flux	835.55 lm	Luminaire Power	11.93 W	Efficacy	70.04 lm/W	Efficiency	100.00%
Lamps Flux	835.55 lm	Maximum value	1243.18 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Isolux (Floor)

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



Luminaire
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 Name DOWNLIGHT LED

Luminaire Flux	835.55 lm	Luminaire Power	11.93 W	Efficacy	70.04 lm/W	Efficiency	100.00%
Lamps Flux	835.55 lm	Maximum value	1243.18 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

		Average Luminance [cd/m ²]									
		45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°		34735	23514	20284	18538	17828	17035	17784	20277	29875	---
90.0°		33093	22939	19813	18310	17487	16577	17150	19645	29000	---

Flush mounted or longitudinal view												
		Illumination(Ix)										
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

