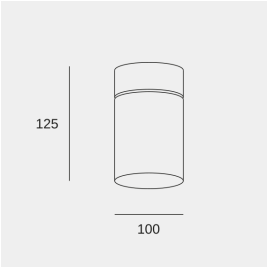
Petit Cylindrical

DE-0430-CRO

Ceiling fixture Petit Cylindrical LED 7.1W LED warm-white 3000K ON-OFF Chrome 650.00





TECHNICAL FEATURES

IP44

Luminaire total power : 7.1W

Real lumens : 463

Nominal lumens : 650

Real lm/W : 65

UGR : <=22

Structure material : Steel

Structure finish : Chrome

Diffuser material : Glass

Diffuser finish : Opal

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

Dimming protocol : ON-OFF

Power Factor : 0.40

Useful life : 36.000h L70B30

Warranty : 2 Years

Easily recyclable luminaire

LUMINOTECHNIC FEATURES

CRI: 80

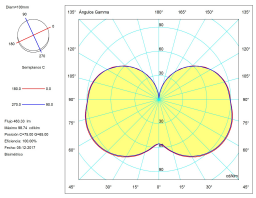
MacAdam steps: 5

Photobiological risk: RG0

UGR

UGR crosswise: 20.8

UGR lengthwise: 20.8



Lampholder	Quantity	Light source power (W)	Correlated Colour Temperature (CCT)
LED	1	5.7W	3000K

LOGISTICS

Net weight (kg): 0.46

Packaged weight (kg): 0.61

Packaging: 150mm x 175mm x 150mm

12 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 DE-0430-CRO
Name DE-0430-CRO
Measurem.
Code DE-0430-CRO
Name DE-0430-CRO

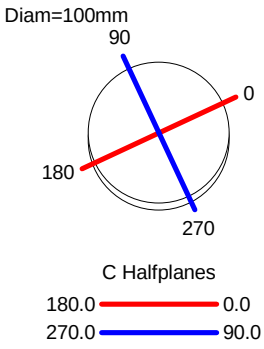
Luminaire Flux	463.33 lm	Luminaire Power	7.10 W	Efficacy	65.26 lm/W	Efficiency	100.00%
Lamps Flux	463.33 lm	Maximum value	98.74 cd/klm	Position	C=75.00 G=65.00	CG	Double Symmetrical

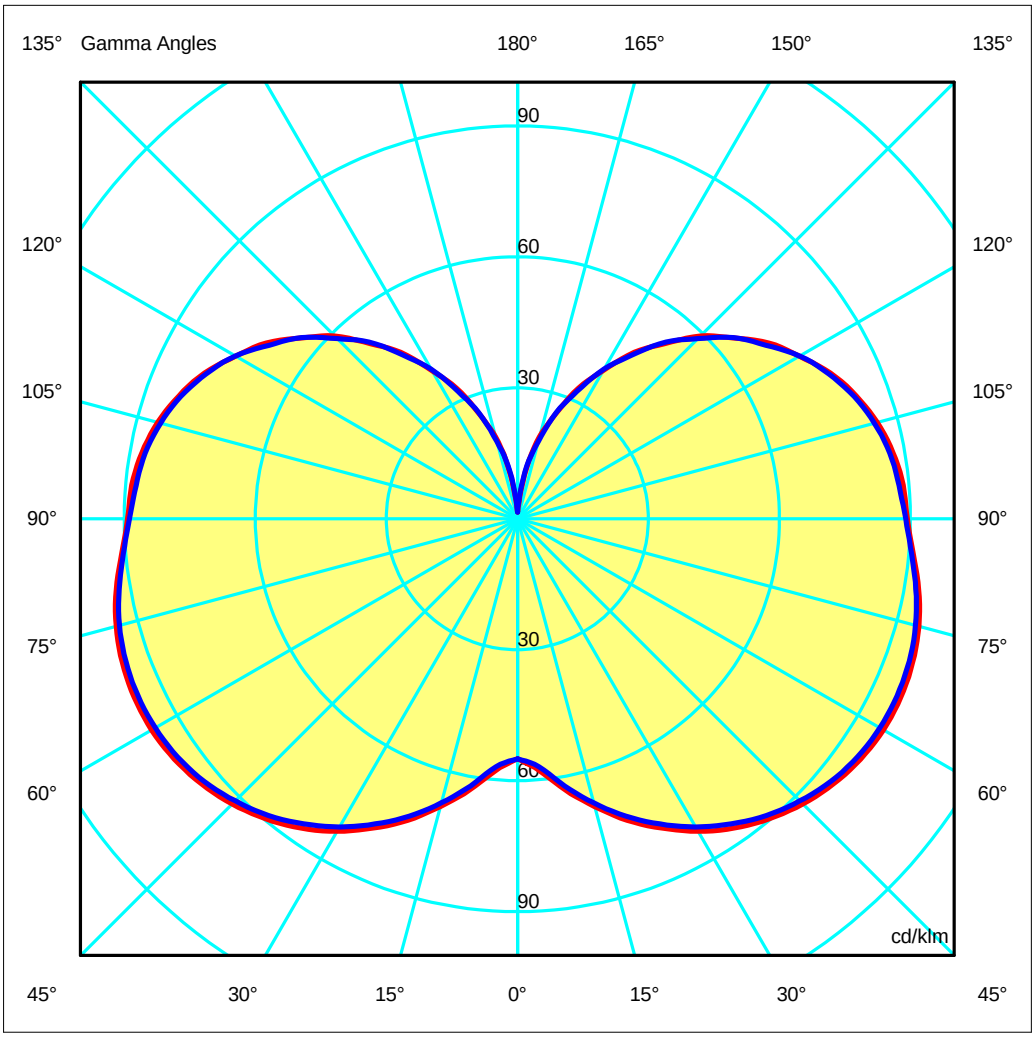
Round Luminaire	Diam. 100 mm	Height	120 mm
Round Luminous Area	Diam. 100 mm	Height	90 mm
Horizontal Luminous Area	0.007854 m2	Emitting area on Plane 180°	0.009000 m2
Emitting area on Plane 0°	0.009000 m2	Emitting area on Plane 270°	0.009000 m2
Emitting area on Plane 90°	0.009000 m2	Glare area at 76°	0.010633 m2
Coordinate system	CG	Symmetry Type	Double Symmetrical
Date	05-12-2017	Maximum Gamma Angle	180
Measurement Distance	0.00	Measurement Flux	463.33 lm
Operator	ASSELUM T2	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
	DE-0430-CRO	DE-0430-CRO	463.33	7.10	1

C.I.E.	22 48 75 57 100	D DIN 5040	C11
F UTE	0.57 J + 0.43 T	B NBN	BZ 9 / 1.5 / BZ 8





ULOR 42.77 %
DLOR 57.23 %
RN 42.77 %

Luminaire
Code DE-0430-CRO
Name DE-0430-CRO
Measurem.
Code DE-0430-CRO
Name DE-0430-CRO

Luminaire Flux	463.33 lm	Luminaire Power	7.10 W	Efficacy	65.26 lm/W	Efficiency	100.00%
Lamps Flux	463.33 lm	Maximum value	98.74 cd/klm	Position	C=75.00 G=65.00	CG	Double Symmetrical

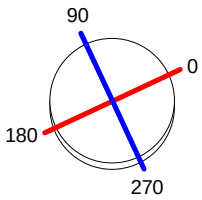
Luminous Intensity Table cd/klm **Table 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	54.98	54.98	54.98	54.98	54.98	54.98	54.98
G 5.0	57.88	58.30	57.37	58.31	57.27	58.23	57.02
G 10.0	63.06	63.67	62.56	63.72	62.54	63.84	62.12
G 15.0	68.19	69.04	67.82	69.14	67.55	69.31	67.33
G 20.0	73.48	74.25	72.84	74.34	72.87	74.72	72.48
G 25.0	78.15	79.09	77.51	79.23	77.45	79.43	77.11
G 30.0	82.65	83.51	81.88	83.76	82.00	84.03	81.47
G 35.0	86.47	87.32	85.78	87.58	85.73	87.89	85.30
G 40.0	89.69	90.91	89.09	91.09	89.16	91.37	88.69
G 45.0	92.35	93.62	91.98	93.85	91.69	94.08	91.37
G 50.0	94.46	95.94	94.04	96.11	93.92	96.34	93.60
G 55.0	95.90	97.33	95.60	97.57	95.37	97.80	95.02
G 60.0	96.72	98.19	96.33	98.40	96.24	98.63	95.77
G 65.0	96.80	98.26	96.39	98.54	96.39	98.74	95.87
G 70.0	96.28	97.81	95.97	98.02	95.83	98.21	95.43
G 75.0	95.12	96.60	94.84	96.83	94.69	97.09	94.34
G 80.0	93.27	94.85	93.04	94.94	92.82	95.16	92.61
G 85.0	90.96	92.37	90.79	92.64	90.74	92.82	90.56
G 90.0	89.25	90.59	89.14	90.81	89.16	91.04	88.88
G 95.0	88.64	89.87	88.17	90.12	88.18	90.32	87.67
G100.0	87.31	88.74	87.04	88.93	86.89	89.08	86.57
G105.0	85.29	86.72	85.02	87.00	85.05	87.14	84.63
G110.0	82.47	83.99	82.43	84.05	82.05	84.19	82.04
G115.0	79.06	80.43	78.86	80.60	78.88	80.91	78.60
G120.0	74.55	76.25	74.99	76.34	74.49	76.36	74.63
G125.0	70.24	71.41	69.92	71.55	70.14	71.94	69.38
G130.0	64.50	66.01	64.94	66.16	64.57	66.05	64.56
G135.0	59.23	60.19	58.88	60.29	59.20	60.66	58.38
G140.0	52.43	53.94	53.10	54.01	52.53	53.83	52.90
G145.0	46.56	47.32	46.28	47.31	46.49	47.68	45.83
G150.0	39.23	40.40	39.82	40.51	39.23	40.22	39.65
G155.0	33.06	33.48	32.58	33.43	32.89	33.74	32.20
G160.0	25.60	26.40	26.00	26.36	25.39	26.11	25.85
G165.0	19.43	19.51	18.79	19.17	19.05	19.61	18.41
G170.0	11.88	12.55	12.19	11.93	11.76	12.12	12.38
G175.0	4.12	5.40	4.36	5.87	5.21	6.42	5.27
G180.0	1.54	1.54	1.54	1.54	1.54	1.54	1.54

Luminaire
Code DE-0430-CRO
Name DE-0430-CRO
Measurem.
Code DE-0430-CRO
Name DE-0430-CRO

Luminaire Flux	463.33 lm	Luminaire Power	7.10 W	Efficacy	65.26 lm/W	Efficiency	100.00%
Lamps Flux	463.33 lm	Maximum value	98.74 cd/klm	Position	C=75.00 G=65.00	CG	Double Symmetrical

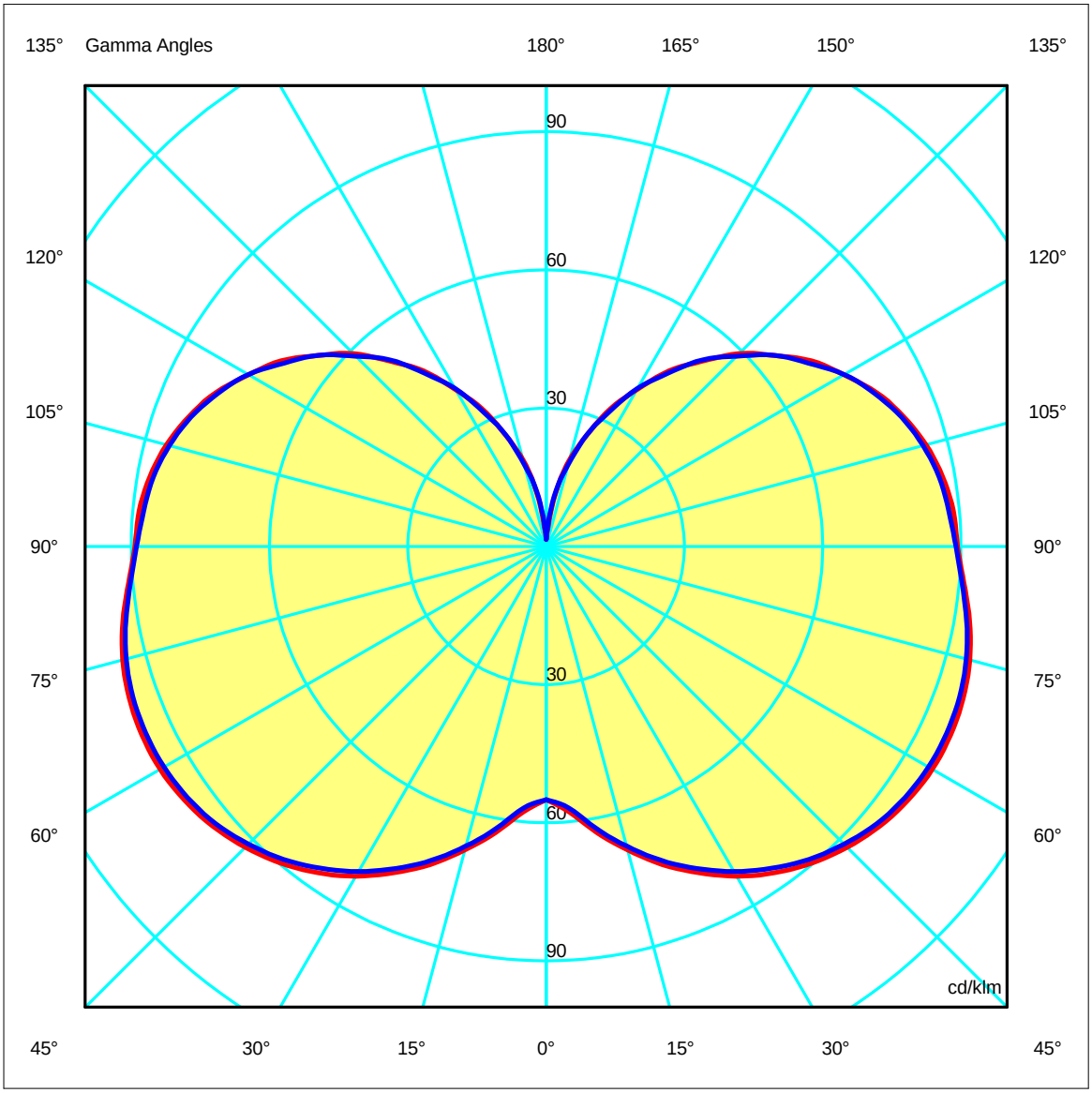
Diam=100mm



C Halfplanes

180.0 0.0

270.0 90.0



Luminaire
Code DE-0430-CRO
Name DE-0430-CRO
Measurem.
Code DE-0430-CRO
Name DE-0430-CRO

Luminaire Flux	463.33 lm	Luminaire Power	7.10 W	Efficacy	65.26 lm/W	Efficiency	100.00%
Lamps Flux	463.33 lm	Maximum value	98.74 cd/klm	Position	C=75.00 G=65.00	CG	Double Symmetrical

Right beam angle not found, gamma = 63

Right beam angle not found, gamma = 63

Right beam angle not found, gamma = 63

Luminaire
Code DE-0430-CRO
Name DE-0430-CRO
Measurem.
Code DE-0430-CRO
Name DE-0430-CRO

Luminaire Flux	463.33 lm	Luminaire Power	7.10 W	Efficacy	65.26 lm/W	Efficiency	100.00%
Lamps Flux	463.33 lm	Maximum value	98.74 cd/klm	Position	C=75.00 G=65.00	CG	Double Symmetrical

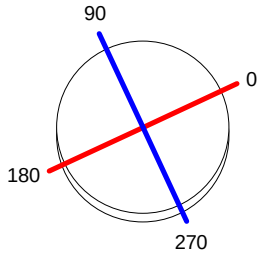
UGR
S = 0.250

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	Viewed Crosswise					Viewed Endwise				
x=2H y=2H	14.2	15.3	15.0	16.1	17.2	14.2	15.3	15.0	16.1	17.2
x=2H y=3H	16.9	17.8	17.7	18.7	19.8	16.9	17.8	17.7	18.7	19.8
x=2H y=4H	18.2	19.1	19.1	20.0	21.1	18.2	19.1	19.1	20.0	21.1
x=2H y=6H	19.5	20.3	20.4	21.3	22.4	19.5	20.3	20.4	21.3	22.4
x=2H y=8H	20.2	21.0	21.0	21.9	23.0	20.1	21.0	21.0	21.9	23.0
x=2H y=12H	20.8	21.5	21.7	22.4	23.6	20.8	21.5	21.7	22.4	23.6
x=4H y=2H	15.2	16.1	16.0	17.0	18.1	15.2	16.1	16.0	17.0	18.1
x=4H y=3H	17.9	18.7	18.8	19.6	20.8	18.0	18.7	18.8	19.6	20.8
x=4H y=4H	19.4	20.1	20.3	21.0	22.2	19.4	20.1	20.3	21.0	22.2
x=4H y=6H	20.9	21.5	21.8	22.5	23.7	20.9	21.5	21.8	22.5	23.7
x=4H y=8H	21.6	22.2	22.5	23.1	24.4	21.6	22.2	22.5	23.1	24.4
x=4H y=12H	22.3	22.8	23.3	23.8	25.0	22.3	22.8	23.3	23.8	25.0
x=8H y=4H	20.0	20.6	20.9	21.5	22.8	20.0	20.6	20.9	21.5	22.8
x=8H y=6H	21.7	22.2	22.6	23.1	24.4	21.7	22.2	22.6	23.1	24.4
x=8H y=8H	22.6	23.0	23.5	24.0	25.2	22.6	23.0	23.5	24.0	25.2
x=8H y=12H	23.4	23.8	24.4	24.8	26.1	23.4	23.8	24.4	24.8	26.1
x=12H y=4H	20.1	20.7	21.1	21.6	22.8	20.1	20.7	21.1	21.6	22.8
x=12H y=6H	21.9	22.3	22.9	23.3	24.6	21.9	22.3	22.9	23.3	24.6
x=12H y=8H	22.9	23.2	23.8	24.2	25.5	22.9	23.2	23.8	24.2	25.5

Luminaire
Code DE-0430-CRO
Name DE-0430-CRO
Measurem.
Code DE-0430-CRO
Name DE-0430-CRO

Luminaire Flux	463.33 lm	Luminaire Power	7.10 W	Efficacy	65.26 lm/W	Efficiency	100.00%
Lamps Flux	463.33 lm	Maximum value	98.74 cd/klm	Position	C=75.00 G=65.00	CG	Double Symmetrical

Diam=100mm



C Halfplanes

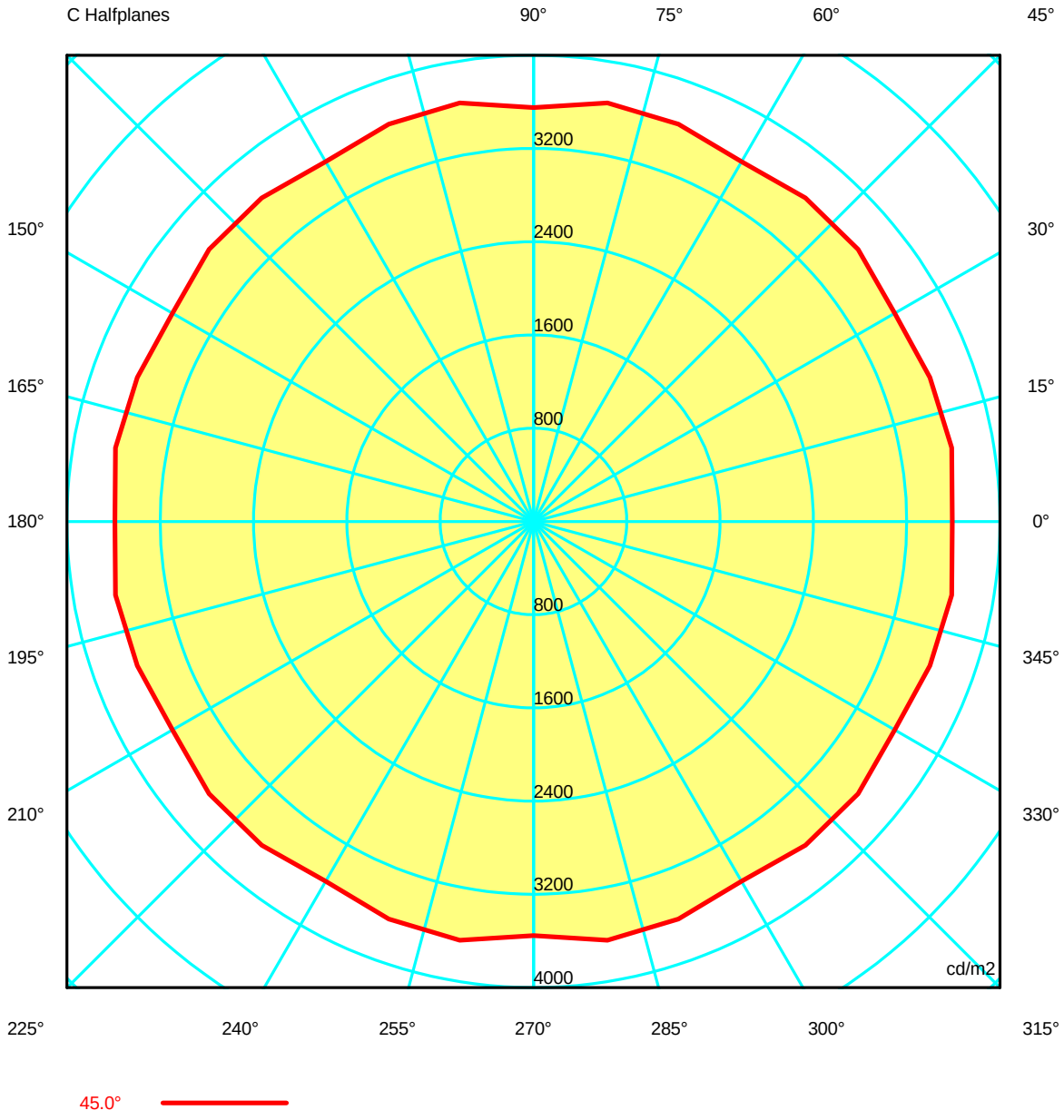
180.0 0.0
270.0 90.0



Luminaire
Code DE-0430-CRO
Name DE-0430-CRO
Measurem.
Code DE-0430-CRO
Name DE-0430-CRO

Luminaire Flux	463.33 lm	Luminaire Power	7.10 W	Efficacy	65.26 lm/W	Efficiency	100.00%
Lamps Flux	463.33 lm	Maximum value	98.74 cd/klm	Position	C=75.00 G=65.00	CG	Double Symmetrical

Luminance



Luminaire
Code DE-0430-CRO
Name DE-0430-CRO
Measurem.
Code DE-0430-CRO
Name DE-0430-CRO

Luminaire Flux	463.33 lm	Luminaire Power	7.10 W	Efficacy	65.26 lm/W	Efficiency	100.00%
Lamps Flux	463.33 lm	Maximum value	98.74 cd/klm	Position	C=75.00 G=65.00	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	3243.60	3243.60	3243.60	3243.60	3243.60	3243.60	3243.60	3243.60	3243.60	3243.60	3243.60	3243.60	3243.60
G 5.0	3115.19	3141.24	3118.64	3087.63	3126.82	3123.80	3082.61	3117.49	3127.70	3068.96	3127.70	3117.49	3082.61
G 10.0	3142.49	3175.31	3151.82	3117.38	3161.95	3159.67	3116.70	3161.83	3171.93	3095.45	3171.93	3161.83	3116.70
G 15.0	3186.16	3226.66	3204.56	3169.19	3218.19	3209.31	3156.32	3212.96	3230.67	3146.32	3230.67	3212.96	3156.32
G 20.0	3255.08	3292.47	3265.89	3226.98	3278.00	3275.37	3228.33	3285.78	3300.32	3211.04	3300.32	3285.78	3228.33
G 25.0	3315.34	3357.62	3329.69	3288.02	3344.32	3340.57	3285.75	3343.51	3360.52	3271.37	3360.52	3343.51	3285.75
G 30.0	3388.14	3427.22	3397.73	3356.83	3415.74	3414.74	3361.66	3419.66	3434.12	3340.04	3434.12	3419.66	3361.66
G 35.0	3455.09	3492.20	3465.06	3427.55	3483.48	3478.85	3425.56	3485.55	3501.69	3408.15	3501.69	3485.55	3425.56
G 40.0	3521.09	3570.62	3542.67	3497.67	3557.63	3556.12	3500.35	3560.41	3576.80	3481.88	3576.80	3560.41	3500.35
G 45.0	3590.51	3639.72	3615.95	3576.01	3633.27	3624.69	3564.84	3628.65	3648.31	3552.45	3648.31	3628.65	3564.84
G 50.0	3664.71	3721.46	3695.06	3648.49	3710.37	3705.31	3643.53	3708.01	3728.38	3631.44	3728.38	3708.01	3643.53
G 55.0	3741.22	3796.03	3772.06	3729.34	3789.43	3782.10	3720.57	3785.70	3805.52	3706.77	3805.52	3785.70	3720.57
G 60.0	3823.40	3880.95	3854.45	3807.72	3870.91	3866.28	3804.16	3869.56	3888.10	3785.66	3888.10	3869.56	3804.16
G 65.0	3908.13	3966.67	3939.26	3891.83	3958.24	3955.20	3891.83	3957.20	3975.20	3870.77	3975.20	3957.20	3891.83
G 70.0	4003.36	4065.47	4038.78	3990.11	4056.29	4050.65	3984.35	4052.46	4072.97	3967.90	4072.97	4052.46	3984.35
G 75.0	4109.00	4171.48	4144.92	4096.55	4163.57	4157.09	4090.08	4161.51	4183.23	4075.00	4183.23	4161.51	4090.08
G 80.0	4225.60	4294.67	4267.76	4214.88	4281.95	4274.78	4205.29	4277.55	4301.60	4195.53	4301.60	4277.55	4205.29
G 85.0	4367.38	4432.78	4407.34	4359.06	4427.61	4423.50	4356.79	4424.69	4447.71	4347.83	4447.71	4424.69	4356.79
G 90.0	4594.95	4661.08	4636.92	4588.78	4654.73	4652.26	4590.07	4656.78	4676.92	4575.46	4676.92	4656.78	4590.07

Luminaire
Code DE-0430-CRO
Name DE-0430-CRO
Measurem.
Code DE-0430-CRO
Name DE-0430-CRO

Luminaire Flux	463.33 lm	Luminaire Power	7.10 W	Efficacy	65.26 lm/W	Efficiency 100.00%
Lamps Flux	463.33 lm	Maximum value	98.74 cd/klm	Position	C=75.00 G=65.00	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	3243.60	3243.60	3243.60	3243.60	3243.60	3243.60	3243.60	3243.60	3243.60	3243.60	3243.60	3243.60	3243.60
G 5.0	3123.80	3126.82	3087.63	3118.64	3141.24	3115.19	3141.24	3118.64	3087.63	3126.82	3123.80	3082.61	3117.49
G 10.0	3159.67	3161.95	3117.38	3151.82	3175.31	3142.49	3175.31	3151.82	3117.38	3161.95	3159.67	3116.70	3161.83
G 15.0	3209.31	3218.19	3169.19	3204.56	3226.66	3186.16	3226.66	3204.56	3169.19	3218.19	3209.31	3156.32	3212.96
G 20.0	3275.37	3278.00	3226.98	3265.89	3292.47	3255.08	3292.47	3265.89	3226.98	3278.00	3275.37	3228.33	3285.78
G 25.0	3340.57	3344.32	3288.02	3329.69	3357.62	3315.34	3357.62	3329.69	3288.02	3344.32	3340.57	3285.75	3343.51
G 30.0	3414.74	3415.74	3356.83	3397.73	3427.22	3388.14	3427.22	3397.73	3356.83	3415.74	3414.74	3361.66	3419.66
G 35.0	3478.85	3483.48	3427.55	3465.06	3492.20	3455.09	3492.20	3465.06	3427.55	3483.48	3478.85	3425.56	3485.55
G 40.0	3556.12	3557.63	3497.67	3542.67	3570.62	3521.09	3570.62	3542.67	3497.67	3557.63	3556.12	3500.35	3560.41
G 45.0	3624.69	3633.27	3576.01	3615.95	3639.72	3590.51	3639.72	3615.95	3576.01	3633.27	3624.69	3564.84	3628.65
G 50.0	3705.31	3710.37	3648.49	3695.06	3721.46	3664.71	3721.46	3695.06	3648.49	3710.37	3705.31	3643.53	3708.01
G 55.0	3782.10	3789.43	3729.34	3772.06	3796.03	3741.22	3796.03	3772.06	3729.34	3789.43	3782.10	3720.57	3785.70
G 60.0	3866.28	3870.91	3807.72	3854.45	3880.95	3823.40	3880.95	3854.45	3807.72	3870.91	3866.28	3804.16	3869.56
G 65.0	3955.20	3958.24	3891.83	3939.26	3966.67	3908.13	3966.67	3939.26	3891.83	3958.24	3955.20	3891.83	3957.20
G 70.0	4050.65	4056.29	3990.11	4038.78	4065.47	4003.36	4065.47	4038.78	3990.11	4056.29	4050.65	3984.35	4052.46
G 75.0	4157.09	4163.57	4096.55	4144.92	4171.48	4109.00	4171.48	4144.92	4096.55	4163.57	4157.09	4090.08	4161.51
G 80.0	4274.78	4281.95	4214.88	4267.76	4294.67	4225.60	4294.67	4267.76	4214.88	4281.95	4274.78	4205.29	4277.55
G 85.0	4423.50	4427.61	4359.06	4407.34	4432.78	4367.38	4432.78	4407.34	4359.06	4427.61	4423.50	4356.79	4424.69
G 90.0	4652.26	4654.73	4588.78	4636.92	4661.08	4594.95	4661.08	4636.92	4588.78	4654.73	4652.26	4590.07	4656.78

Luminaire
Code DE-0430-CRO
Name DE-0430-CRO
Measurem.
Code DE-0430-CRO
Name DE-0430-CRO

Luminaire Flux	463.33 lm	Luminaire Power	7.10 W	Efficacy	65.26 lm/W	Efficiency 100.00%
Lamps Flux	463.33 lm	Maximum value	98.74 cd/klm	Position	C=75.00 G=65.00	CG Double Symmetrical

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

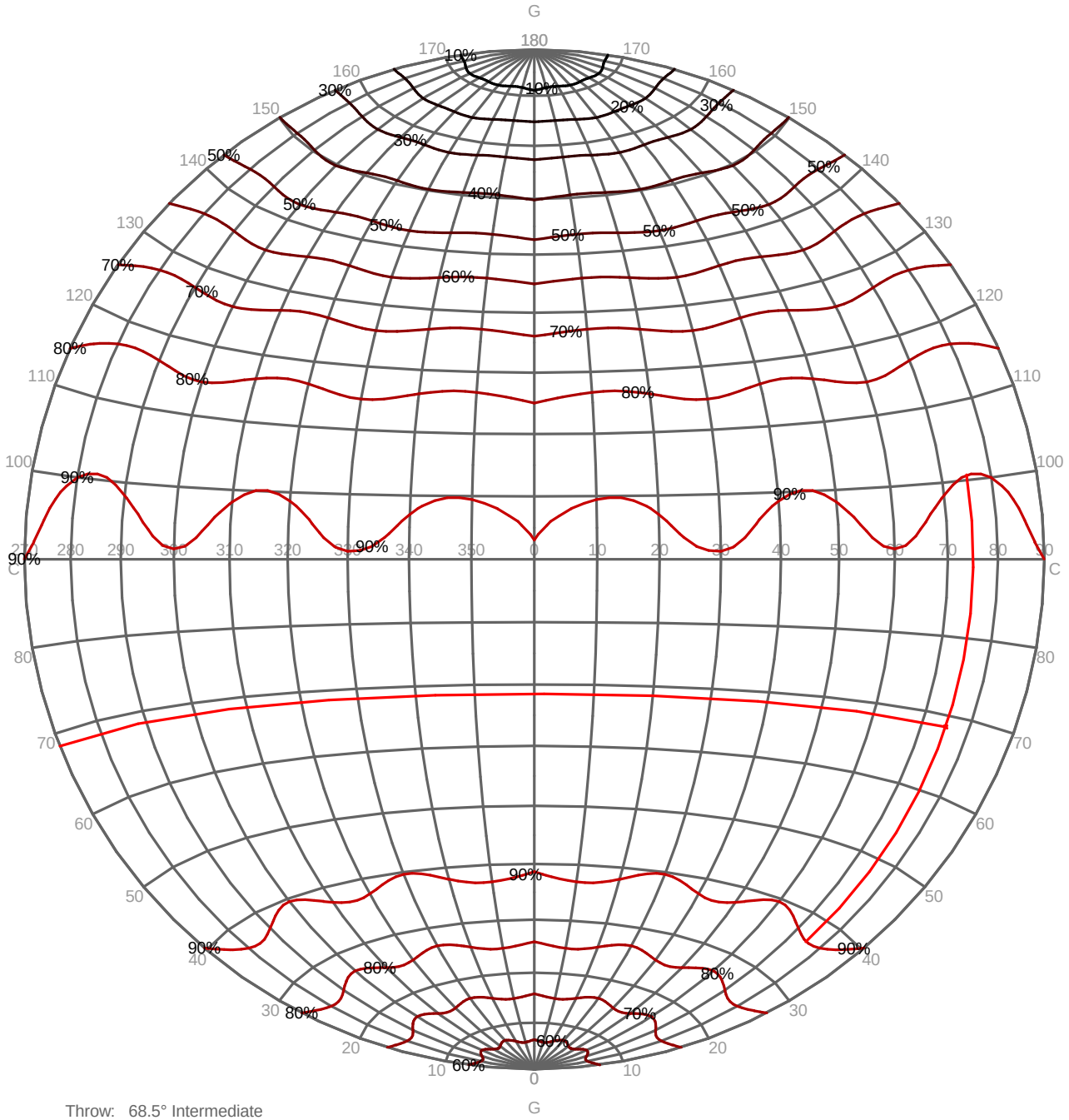
	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	3243.60	3243.60	3243.60	3243.60	3243.60	3243.60	3243.60	3243.60	3243.60	3243.60
G 5.0	3127.70	3068.96	3127.70	3117.49	3082.61	3123.80	3126.82	3087.63	3118.64	3141.24
G 10.0	3171.93	3095.45	3171.93	3161.83	3116.70	3159.67	3161.95	3117.38	3151.82	3175.31
G 15.0	3230.67	3146.32	3230.67	3212.96	3156.32	3209.31	3218.19	3169.19	3204.56	3226.66
G 20.0	3300.32	3211.04	3300.32	3285.78	3228.33	3275.37	3278.00	3226.98	3265.89	3292.47
G 25.0	3360.52	3271.37	3360.52	3343.51	3285.75	3340.57	3344.32	3288.02	3329.69	3357.62
G 30.0	3434.12	3340.04	3434.12	3419.66	3361.66	3414.74	3415.74	3356.83	3397.73	3427.22
G 35.0	3501.69	3408.15	3501.69	3485.55	3425.56	3478.85	3483.48	3427.55	3465.06	3492.20
G 40.0	3576.80	3481.88	3576.80	3560.41	3500.35	3556.12	3557.63	3497.67	3542.67	3570.62
G 45.0	3648.31	3552.45	3648.31	3628.65	3564.84	3624.69	3633.27	3576.01	3615.95	3639.72
G 50.0	3728.38	3631.44	3728.38	3708.01	3643.53	3705.31	3710.37	3648.49	3695.06	3721.46
G 55.0	3805.52	3706.77	3805.52	3785.70	3720.57	3782.10	3789.43	3729.34	3772.06	3796.03
G 60.0	3888.10	3785.66	3888.10	3869.56	3804.16	3866.28	3870.91	3807.72	3854.45	3880.95
G 65.0	3975.20	3870.77	3975.20	3957.20	3891.83	3955.20	3958.24	3891.83	3939.26	3966.67
G 70.0	4072.97	3967.90	4072.97	4052.46	3984.35	4050.65	4056.29	3990.11	4038.78	4065.47
G 75.0	4183.23	4075.00	4183.23	4161.51	4090.08	4157.09	4163.57	4096.55	4144.92	4171.48
G 80.0	4301.60	4195.53	4301.60	4277.55	4205.29	4274.78	4281.95	4214.88	4267.76	4294.67
G 85.0	4447.71	4347.83	4447.71	4424.69	4356.79	4423.50	4427.61	4359.06	4407.34	4432.78
G 90.0	4676.92	4575.46	4676.92	4656.78	4590.07	4652.26	4654.73	4588.78	4636.92	4661.08

Luminaire
Code DE-0430-CRO
Name DE-0430-CRO
Measurem.
Code DE-0430-CRO
Name DE-0430-CRO

Luminaire Flux	463.33 lm	Luminaire Power	7.10 W	Efficacy	65.26 lm/W	Efficiency	100.00%
Lamps Flux	463.33 lm	Maximum value	98.74 cd/klm	Position	C=75.00 G=65.00	CG	Double Symmetrical

PERCENTAGE ISOCANDLES

Projection: Equal Area SLI 6.0 Tight Tilting Angle:0°



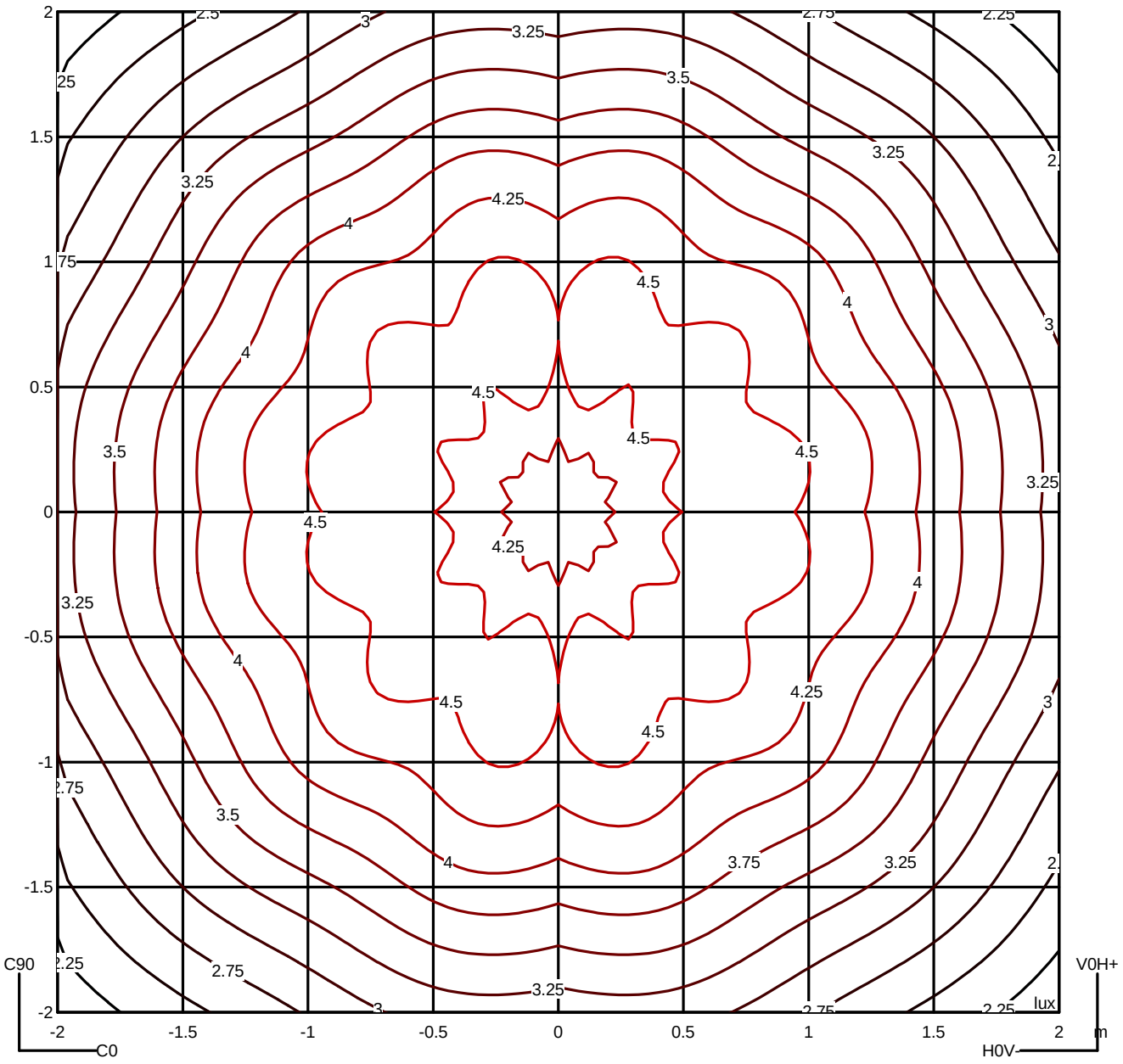
Throw: 68.5° Intermediate

Luminaire
Code DE-0430-CRO
Name DE-0430-CRO
Measurem.
Code DE-0430-CRO
Name DE-0430-CRO

Luminaire Flux	463.33 lm	Luminaire Power	7.10 W	Efficacy	65.26 lm/W	Efficiency	100.00%
Lamps Flux	463.33 lm	Maximum value	98.74 cd/klm	Position	C=75.00 G=65.00	CG	Double Symmetrical

Isolux (Floor)

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



Luminaire
Code DE-0430-CRO
Name DE-0430-CRO
Measurem.
Code DE-0430-CRO
Name DE-0430-CRO

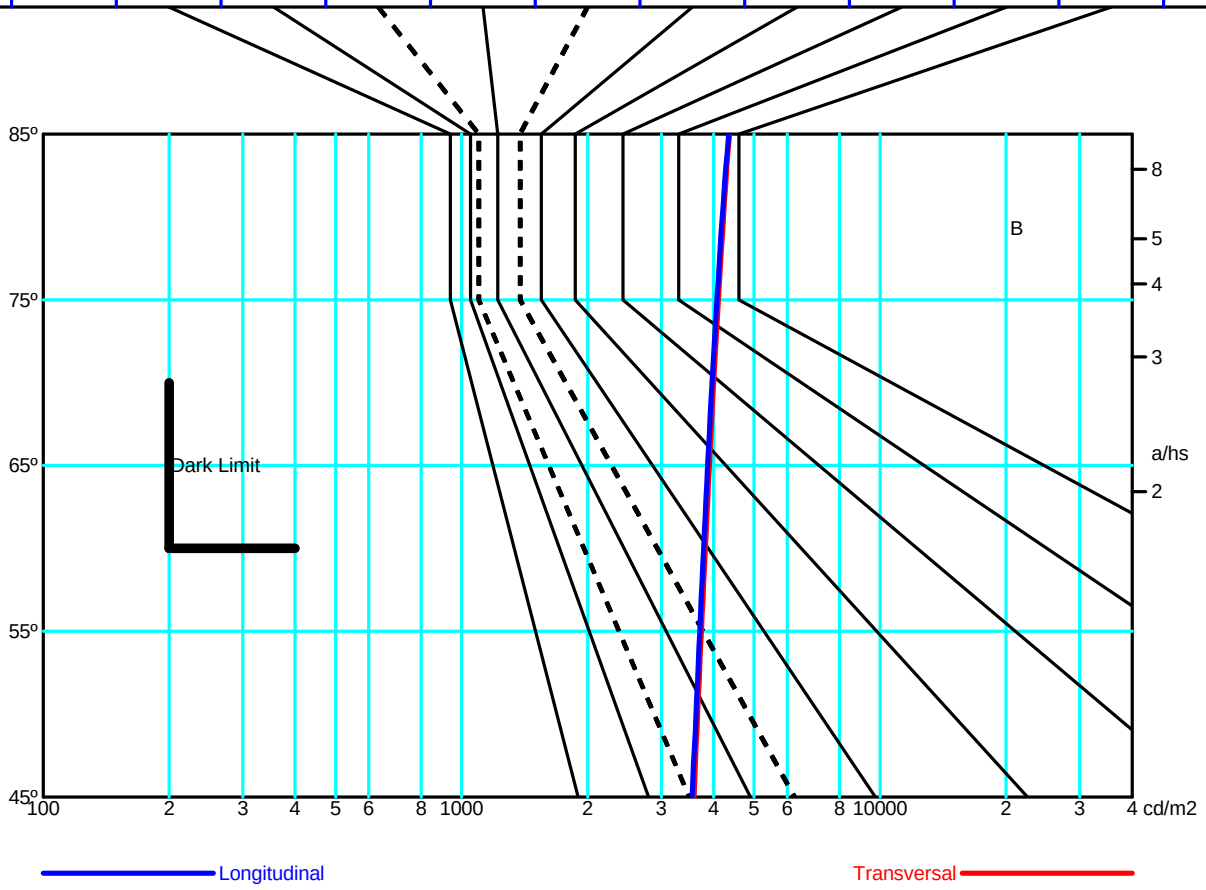
Luminaire Flux	463.33 lm	Luminaire Power	7.10 W	Efficacy	65.26 lm/W	Efficiency	100.00%
Lamps Flux	463.33 lm	Maximum value	98.74 cd/klm	Position	C=75.00 G=65.00	CG	Double Symmetrical

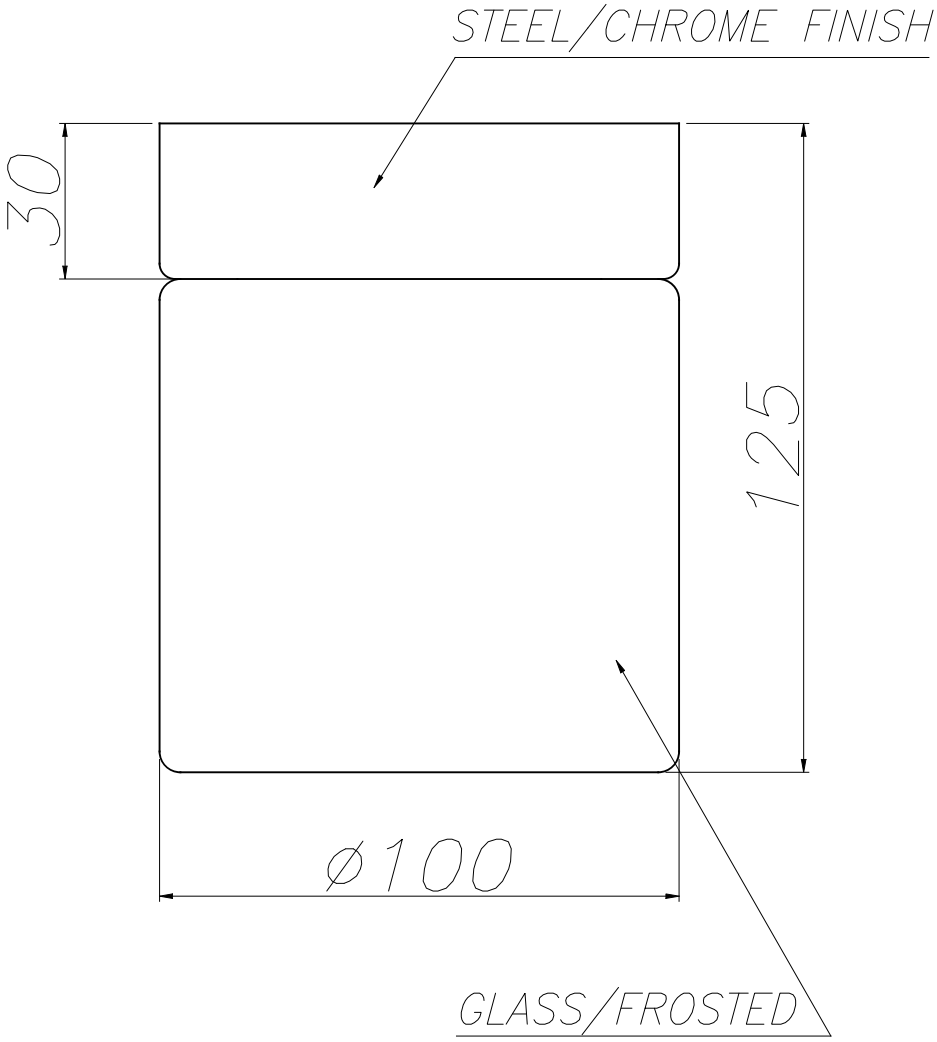
Average Luminance [cd/m²]

	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	3591	3665	3741	3823	3908	4003	4109	4226	4367	---
90.0°	3552	3631	3707	3786	3871	3968	4075	4196	4348	---

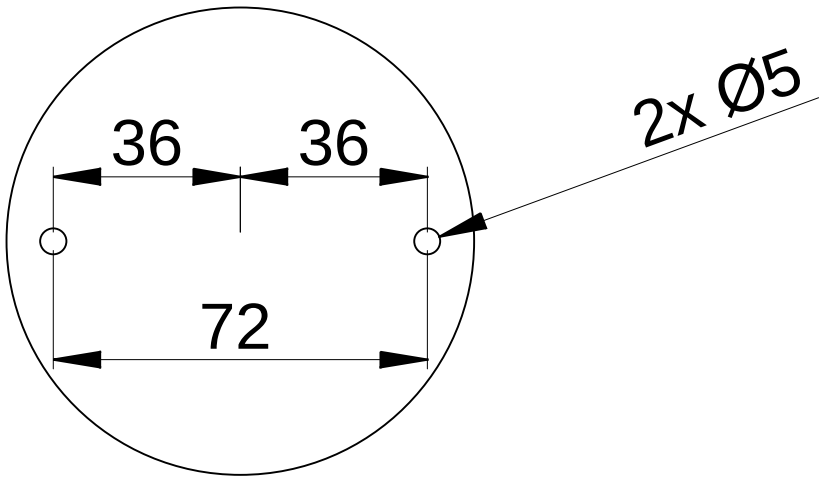
Flush mounted or transveral view

		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





INSTALLATION TEMPLATE
PLANTILLA DE INSTALACIÓN



Petit

DE-0430 DE-0431

