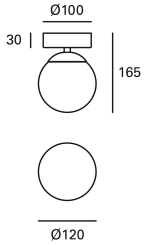
Petit Sphere

DE-0431-CRO

Plafon Petit Sphere LED 7.1W Blanco cálido - 3000K ON-OFF Cromo 650.00





CARACTERÍSTICAS TÉCNICAS

IP44

Potencia total luminaria : 7.1W

Lúmenes reales : 624

Lúmenes nominales : 650

Lm / W reales : 88

UGR : <=22

Material de la estructura : Acero

Acabado estructura : Cromo

Material del difusor : Cristal

Acabado difusor : Opal

Voltaje / Frecuencia : 100-240V ~ 50/60Hz

Protocolo de regulación : ON-OFF

Power Factor : 0.40

Vida útil : 36.000h L70B30

Garantía : 3 Años

Luminaria fácilmente reciclable

CARACTERÍSTICAS LUMINOTÉCNICAS

CRI: 80

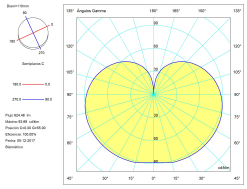
MacAdam steps: 3

Riesgo fotobiológico: RG0

UGR

UGR Transversal: 20.2

UGR Longitudinal: 20.2



Portalámparas	Cantidad	Potencia fuente de luz (W)	Temperatura de color correlacionada (CCT)
LED	1	5.7W	3000K

LOGÍSTICA

Peso neto (Kg): 0.57

Peso embalado (Kg): 0.75

Embalaje: 170mm x 205mm x 170mm

12 Un

La imagen puede no coincidir con la referencia, LEDS C4 se reserva el derecho de modificación de alguno de los componentes que componen el producto. Los datos relativos al flujo, la potencia y la Temperatura de Color están sujetos a una tolerancia de +- 10%.

Luminaire
Code DE-0431-CRO
Name DE-0431-CRO
Measurem.
Code DE-0431-CRO
Name DE-0431-CRO

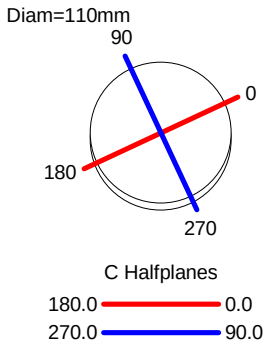
Luminaire Flux	624.48 lm	Luminaire Power	7.10 W	Efficacy	87.95 lm/W	Efficiency	100.00%
Lamps Flux	624.48 lm	Maximum value	93.69 cd/klm	Position	C=0.00 G=55.00	CG	Double Symmetrical

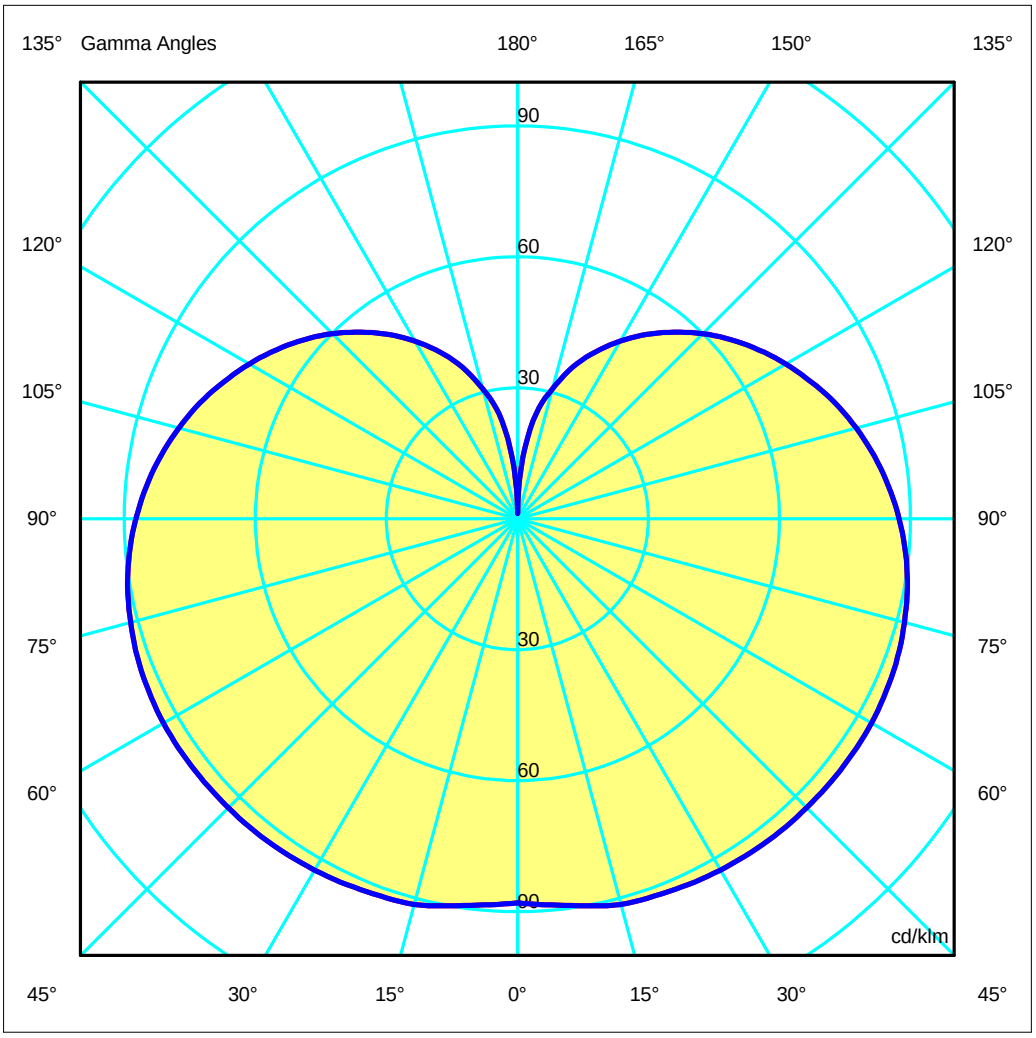
Round Luminaire	Diam. 110 mm	Height	170 mm
Round Luminous Area	Diam. 109 mm	Height	130 mm
Horizontal Luminous Area	0.009331 m2	Emitting area on Plane 180°	0.014170 m2
Emitting area on Plane 0°	0.014170 m2	Emitting area on Plane 270°	0.014170 m2
Emitting area on Plane 90°	0.014170 m2	Glare area at 76°	0.016007 m2
Coordinate system	CG	Symmetry Type	Double Symmetrical
Date	05-12-2017	Maximum Gamma Angle	180
Measurement Distance	0.00	Measurement Flux	624.48 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-0431-CRO	DE-0431-CRO	624.48	7.10	1

C.I.E.	25 50 76 58 100	D DIN 5040	C11
F UTE	0.58 J + 0.42 T	B NBN	BZ 8





ULOR 42.11 %
DLOR 57.89 %
RN 42.11 %

Luminaire
Code DE-0431-CRO
Name DE-0431-CRO
Measurem.
Code DE-0431-CRO
Name DE-0431-CRO

Luminaire Flux	624.48 lm	Luminaire Power	7.10 W	Efficacy	87.95 lm/W	Efficiency	100.00%
Lamps Flux	624.48 lm	Maximum value	93.69 cd/klm	Position	C=0.00 G=55.00	CG	Double Symmetrical

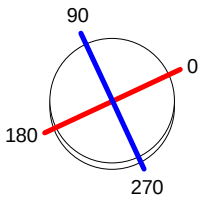
Luminous Intensity Table cd/klm **Table 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	87.98	87.98	87.98	87.98	87.98	87.98	87.98
G 5.0	88.78	88.78	88.78	88.78	88.78	88.78	88.78
G 10.0	89.99	89.99	89.99	89.99	89.99	89.99	89.99
G 15.0	91.43	91.43	91.43	91.43	91.43	91.43	91.43
G 20.0	91.92	91.92	91.92	91.92	91.92	91.92	91.92
G 25.0	92.43	92.43	92.43	92.43	92.43	92.43	92.43
G 30.0	92.90	92.90	92.90	92.90	92.90	92.90	92.90
G 35.0	93.23	93.23	93.23	93.23	93.23	93.23	93.23
G 40.0	93.52	93.52	93.52	93.52	93.52	93.52	93.52
G 45.0	93.60	93.60	93.60	93.60	93.60	93.60	93.60
G 50.0	93.68	93.68	93.68	93.68	93.68	93.68	93.68
G 55.0	93.69	93.69	93.69	93.69	93.69	93.69	93.69
G 60.0	93.58	93.58	93.58	93.58	93.58	93.58	93.58
G 65.0	93.19	93.19	93.19	93.19	93.19	93.19	93.19
G 70.0	92.61	92.61	92.61	92.61	92.61	92.61	92.61
G 75.0	91.70	91.70	91.70	91.70	91.70	91.70	91.70
G 80.0	90.63	90.63	90.63	90.63	90.63	90.63	90.63
G 85.0	89.19	89.19	89.19	89.19	89.19	89.19	89.19
G 90.0	87.39	87.39	87.39	87.39	87.39	87.39	87.39
G 95.0	85.29	85.29	85.29	85.29	85.29	85.29	85.29
G100.0	82.94	82.94	82.94	82.94	82.94	82.94	82.94
G105.0	80.32	80.32	80.32	80.32	80.32	80.32	80.32
G110.0	77.44	77.44	77.44	77.44	77.44	77.44	77.44
G115.0	74.23	74.23	74.23	74.23	74.23	74.23	74.23
G120.0	70.95	70.95	70.95	70.95	70.95	70.95	70.95
G125.0	67.48	67.48	67.48	67.48	67.48	67.48	67.48
G130.0	63.85	63.85	63.85	63.85	63.85	63.85	63.85
G135.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00
G140.0	55.82	55.82	55.82	55.82	55.82	55.82	55.82
G145.0	51.60	51.60	51.60	51.60	51.60	51.60	51.60
G150.0	47.02	47.02	47.02	47.02	47.02	47.02	47.02
G155.0	42.18	42.18	42.18	42.18	42.18	42.18	42.18
G160.0	37.04	37.04	37.04	37.04	37.04	37.04	37.04
G165.0	30.86	30.86	30.86	30.86	30.86	30.86	30.86
G170.0	24.44	24.44	24.44	24.44	24.44	24.44	24.44
G175.0	14.07	14.07	14.07	14.07	14.07	14.07	14.07
G180.0	1.30	1.30	1.30	1.30	1.30	1.30	1.30

Luminaire
Code DE-0431-CRO
Name DE-0431-CRO
Measurem.
Code DE-0431-CRO
Name DE-0431-CRO

Luminaire Flux	624.48 lm	Luminaire Power	7.10 W	Efficacy	87.95 lm/W	Efficiency	100.00%
Lamps Flux	624.48 lm	Maximum value	93.69 cd/klm	Position	C=0.00 G=55.00	CG	Double Symmetrical

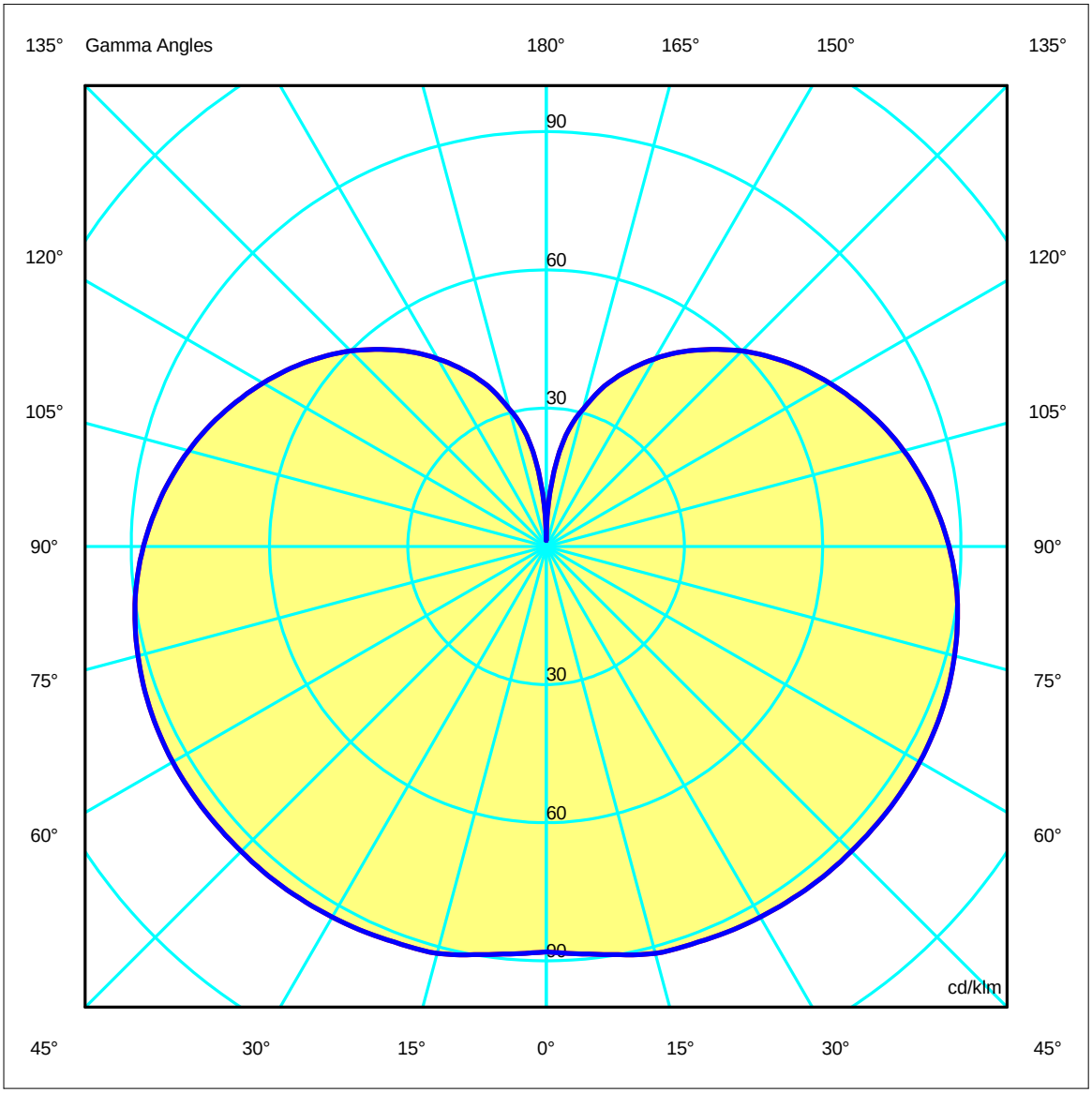
Diam=110mm



C Halfplanes

180.0 0.0

270.0 90.0



Luminaire
Code DE-0431-CRO
Name DE-0431-CRO
Measurem.
Code DE-0431-CRO
Name DE-0431-CRO

Luminaire Flux	624.48 lm	Luminaire Power	7.10 W	Efficacy	87.95 lm/W	Efficiency	100.00%
Lamps Flux	624.48 lm	Maximum value	93.69 cd/klm	Position	C=0.00 G=55.00	CG	Double Symmetrical

Right beam angle not found, gamma = 53

Right beam angle not found, gamma = 53

Right beam angle not found, gamma = 53

Luminaire
Code DE-0431-CRO
Name DE-0431-CRO
Measurem.
Code DE-0431-CRO
Name DE-0431-CRO

Luminaire Flux	624.48 lm	Luminaire Power	7.10 W	Efficacy	87.95 lm/W	Efficiency	100.00%
Lamps Flux	624.48 lm	Maximum value	93.69 cd/klm	Position	C=0.00 G=55.00	CG	Double Symmetrical

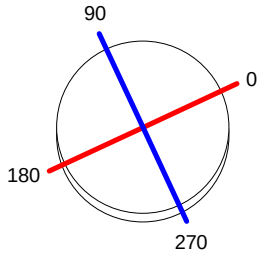
UGR
S = 0.250

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	13.8	14.8	14.6	15.7	16.7	13.8	14.8	14.6	15.7	16.7
x=2H y=3H	16.3	17.3	17.2	18.1	19.2	16.3	17.3	17.2	18.1	19.2
x=2H y=4H	17.6	18.5	18.5	19.4	20.5	17.6	18.5	18.5	19.4	20.5
x=2H y=6H	18.9	19.7	19.8	20.6	21.7	18.9	19.7	19.8	20.6	21.7
x=2H y=8H	19.5	20.3	20.4	21.2	22.3	19.5	20.3	20.4	21.2	22.3
x=2H y=12H	20.2	20.9	21.0	21.8	23.0	20.2	20.9	21.0	21.8	23.0
x=4H y=2H	14.7	15.6	15.6	16.5	17.6	14.7	15.6	15.6	16.5	17.6
x=4H y=3H	17.4	18.2	18.3	19.1	20.2	17.4	18.2	18.3	19.1	20.2
x=4H y=4H	18.8	19.5	19.7	20.4	21.6	18.8	19.5	19.7	20.4	21.6
x=4H y=6H	20.2	20.9	21.2	21.8	23.0	20.2	20.9	21.2	21.8	23.0
x=4H y=8H	21.0	21.5	21.9	22.5	23.7	21.0	21.5	21.9	22.5	23.7
x=4H y=12H	21.7	22.2	22.6	23.1	24.4	21.7	22.2	22.6	23.1	24.4
x=8H y=4H	19.4	20.0	20.3	20.9	22.1	19.4	20.0	20.3	20.9	22.1
x=8H y=6H	21.1	21.6	22.0	22.5	23.7	21.1	21.6	22.0	22.5	23.7
x=8H y=8H	21.9	22.4	22.9	23.3	24.6	21.9	22.4	22.9	23.3	24.6
x=8H y=12H	22.8	23.2	23.8	24.2	25.4	22.8	23.2	23.8	24.2	25.4
x=12H y=4H	19.5	20.0	20.4	21.0	22.2	19.5	20.0	20.4	21.0	22.2
x=12H y=6H	21.3	21.7	22.2	22.7	23.9	21.3	21.7	22.2	22.7	23.9
x=12H y=8H	22.2	22.6	23.2	23.6	24.8	22.2	22.6	23.2	23.6	24.8

Luminaire
Code DE-0431-CRO
Name DE-0431-CRO
Measurem.
Code DE-0431-CRO
Name DE-0431-CRO

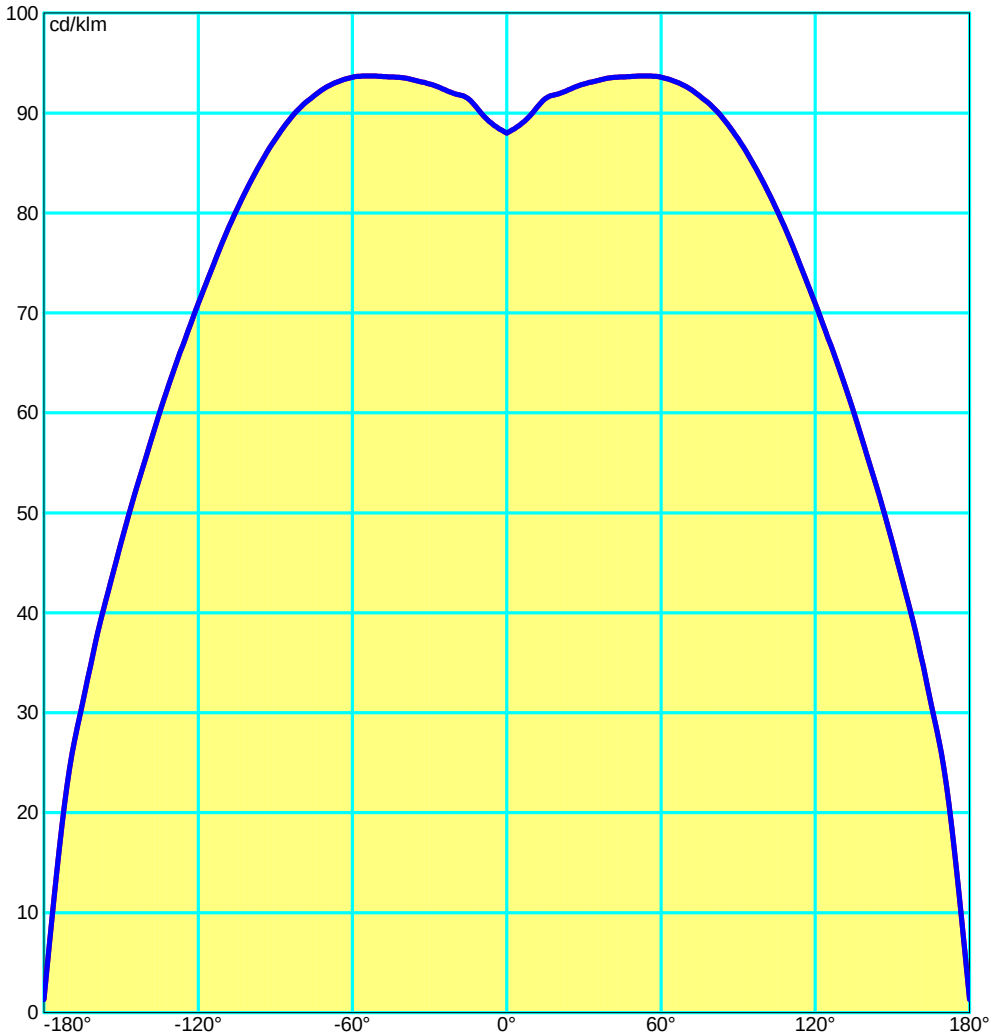
Luminaire Flux	624.48 lm	Luminaire Power	7.10 W	Efficacy	87.95 lm/W	Efficiency	100.00%
Lamps Flux	624.48 lm	Maximum value	93.69 cd/klm	Position	C=0.00 G=55.00	CG	Double Symmetrical

Diam=110mm



C Halfplanes

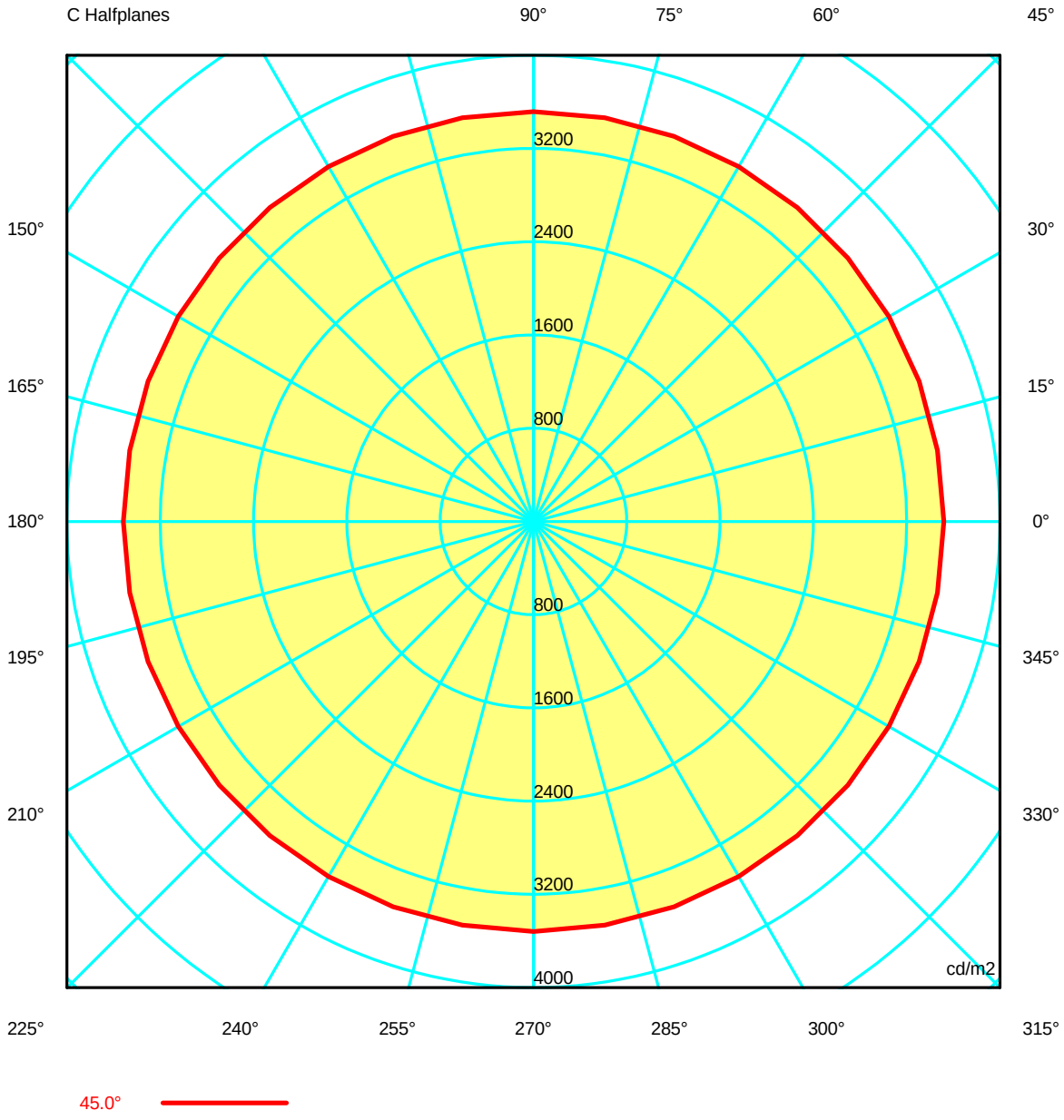
180.0 0.0
270.0 90.0



Luminaire
Code DE-0431-CRO
Name DE-0431-CRO
Measurem.
Code DE-0431-CRO
Name DE-0431-CRO

Luminaire Flux	624.48 lm	Luminaire Power	7.10 W	Efficacy	87.95 lm/W	Efficiency	100.00%
Lamps Flux	624.48 lm	Maximum value	93.69 cd/klm	Position	C=0.00 G=55.00	CG	Double Symmetrical

Luminance



Luminaire
Code DE-0431-CRO
Name DE-0431-CRO
Measurem.
Code DE-0431-CRO
Name DE-0431-CRO

Luminaire Flux	624.48 lm	Luminaire Power	7.10 W	Efficacy	87.95 lm/W	Efficiency	100.00%
Lamps Flux	624.48 lm	Maximum value	93.69 cd/klm	Position	C=0.00 G=55.00	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	5888.20	5888.20	5888.20	5888.20	5888.20	5888.20	5888.20	5888.20	5888.20	5888.20	5888.20	5888.20	5888.20
G 5.0	5264.62	5264.62	5264.62	5264.62	5264.62	5264.62	5264.62	5264.62	5264.62	5264.62	5264.62	5264.62	5264.62
G 10.0	4823.87	4823.87	4823.87	4823.87	4823.87	4823.87	4823.87	4823.87	4823.87	4823.87	4823.87	4823.87	4823.87
G 15.0	4502.51	4502.51	4502.51	4502.51	4502.51	4502.51	4502.51	4502.51	4502.51	4502.51	4502.51	4502.51	4502.51
G 20.0	4216.20	4216.20	4216.20	4216.20	4216.20	4216.20	4216.20	4216.20	4216.20	4216.20	4216.20	4216.20	4216.20
G 25.0	3995.61	3995.61	3995.61	3995.61	3995.61	3995.61	3995.61	3995.61	3995.61	3995.61	3995.61	3995.61	3995.61
G 30.0	3825.39	3825.39	3825.39	3825.39	3825.39	3825.39	3825.39	3825.39	3825.39	3825.39	3825.39	3825.39	3825.39
G 35.0	3691.53	3691.53	3691.53	3691.53	3691.53	3691.53	3691.53	3691.53	3691.53	3691.53	3691.53	3691.53	3691.53
G 40.0	3592.51	3592.51	3592.51	3592.51	3592.51	3592.51	3592.51	3592.51	3592.51	3592.51	3592.51	3592.51	3592.51
G 45.0	3517.36	3517.36	3517.36	3517.36	3517.36	3517.36	3517.36	3517.36	3517.36	3517.36	3517.36	3517.36	3517.36
G 50.0	3471.37	3471.37	3471.37	3471.37	3471.37	3471.37	3471.37	3471.37	3471.37	3471.37	3471.37	3471.37	3471.37
G 55.0	3450.00	3450.00	3450.00	3450.00	3450.00	3450.00	3450.00	3450.00	3450.00	3450.00	3450.00	3450.00	3450.00
G 60.0	3450.23	3450.23	3450.23	3450.23	3450.23	3450.23	3450.23	3450.23	3450.23	3450.23	3450.23	3450.23	3450.23
G 65.0	3466.73	3466.73	3466.73	3466.73	3466.73	3466.73	3466.73	3466.73	3466.73	3466.73	3466.73	3466.73	3466.73
G 70.0	3503.71	3503.71	3503.71	3503.71	3503.71	3503.71	3503.71	3503.71	3503.71	3503.71	3503.71	3503.71	3503.71
G 75.0	3556.51	3556.51	3556.51	3556.51	3556.51	3556.51	3556.51	3556.51	3556.51	3556.51	3556.51	3556.51	3556.51
G 80.0	3633.86	3633.86	3633.86	3633.86	3633.86	3633.86	3633.86	3633.86	3633.86	3633.86	3633.86	3633.86	3633.86
G 85.0	3730.92	3730.92	3730.92	3730.92	3730.92	3730.92	3730.92	3730.92	3730.92	3730.92	3730.92	3730.92	3730.92
G 90.0	3851.26	3851.26	3851.26	3851.26	3851.26	3851.26	3851.26	3851.26	3851.26	3851.26	3851.26	3851.26	3851.26

Luminaire
Code DE-0431-CRO
Name DE-0431-CRO
Measurem.
Code DE-0431-CRO
Name DE-0431-CRO

Luminaire Flux	624.48 lm	Luminaire Power	7.10 W	Efficacy	87.95 lm/W	Efficiency	100.00%
Lamps Flux	624.48 lm	Maximum value	93.69 cd/klm	Position	C=0.00 G=55.00	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	5888.20	5888.20	5888.20	5888.20	5888.20	5888.20	5888.20	5888.20	5888.20	5888.20	5888.20	5888.20	5888.20
G 5.0	5264.62	5264.62	5264.62	5264.62	5264.62	5264.62	5264.62	5264.62	5264.62	5264.62	5264.62	5264.62	5264.62
G 10.0	4823.87	4823.87	4823.87	4823.87	4823.87	4823.87	4823.87	4823.87	4823.87	4823.87	4823.87	4823.87	4823.87
G 15.0	4502.51	4502.51	4502.51	4502.51	4502.51	4502.51	4502.51	4502.51	4502.51	4502.51	4502.51	4502.51	4502.51
G 20.0	4216.20	4216.20	4216.20	4216.20	4216.20	4216.20	4216.20	4216.20	4216.20	4216.20	4216.20	4216.20	4216.20
G 25.0	3995.61	3995.61	3995.61	3995.61	3995.61	3995.61	3995.61	3995.61	3995.61	3995.61	3995.61	3995.61	3995.61
G 30.0	3825.39	3825.39	3825.39	3825.39	3825.39	3825.39	3825.39	3825.39	3825.39	3825.39	3825.39	3825.39	3825.39
G 35.0	3691.53	3691.53	3691.53	3691.53	3691.53	3691.53	3691.53	3691.53	3691.53	3691.53	3691.53	3691.53	3691.53
G 40.0	3592.51	3592.51	3592.51	3592.51	3592.51	3592.51	3592.51	3592.51	3592.51	3592.51	3592.51	3592.51	3592.51
G 45.0	3517.36	3517.36	3517.36	3517.36	3517.36	3517.36	3517.36	3517.36	3517.36	3517.36	3517.36	3517.36	3517.36
G 50.0	3471.37	3471.37	3471.37	3471.37	3471.37	3471.37	3471.37	3471.37	3471.37	3471.37	3471.37	3471.37	3471.37
G 55.0	3450.00	3450.00	3450.00	3450.00	3450.00	3450.00	3450.00	3450.00	3450.00	3450.00	3450.00	3450.00	3450.00
G 60.0	3450.23	3450.23	3450.23	3450.23	3450.23	3450.23	3450.23	3450.23	3450.23	3450.23	3450.23	3450.23	3450.23
G 65.0	3466.73	3466.73	3466.73	3466.73	3466.73	3466.73	3466.73	3466.73	3466.73	3466.73	3466.73	3466.73	3466.73
G 70.0	3503.71	3503.71	3503.71	3503.71	3503.71	3503.71	3503.71	3503.71	3503.71	3503.71	3503.71	3503.71	3503.71
G 75.0	3556.51	3556.51	3556.51	3556.51	3556.51	3556.51	3556.51	3556.51	3556.51	3556.51	3556.51	3556.51	3556.51
G 80.0	3633.86	3633.86	3633.86	3633.86	3633.86	3633.86	3633.86	3633.86	3633.86	3633.86	3633.86	3633.86	3633.86
G 85.0	3730.92	3730.92	3730.92	3730.92	3730.92	3730.92	3730.92	3730.92	3730.92	3730.92	3730.92	3730.92	3730.92
G 90.0	3851.26	3851.26	3851.26	3851.26	3851.26	3851.26	3851.26	3851.26	3851.26	3851.26	3851.26	3851.26	3851.26

Luminaire
Code DE-0431-CRO
Name DE-0431-CRO
Measurem.
Code DE-0431-CRO
Name DE-0431-CRO

Luminaire Flux	624.48 lm	Luminaire Power	7.10 W	Efficacy	87.95 lm/W	Efficiency 100.00%
Lamps Flux	624.48 lm	Maximum value	93.69 cd/klm	Position	C=0.00 G=55.00	CG Double Symmetrical

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

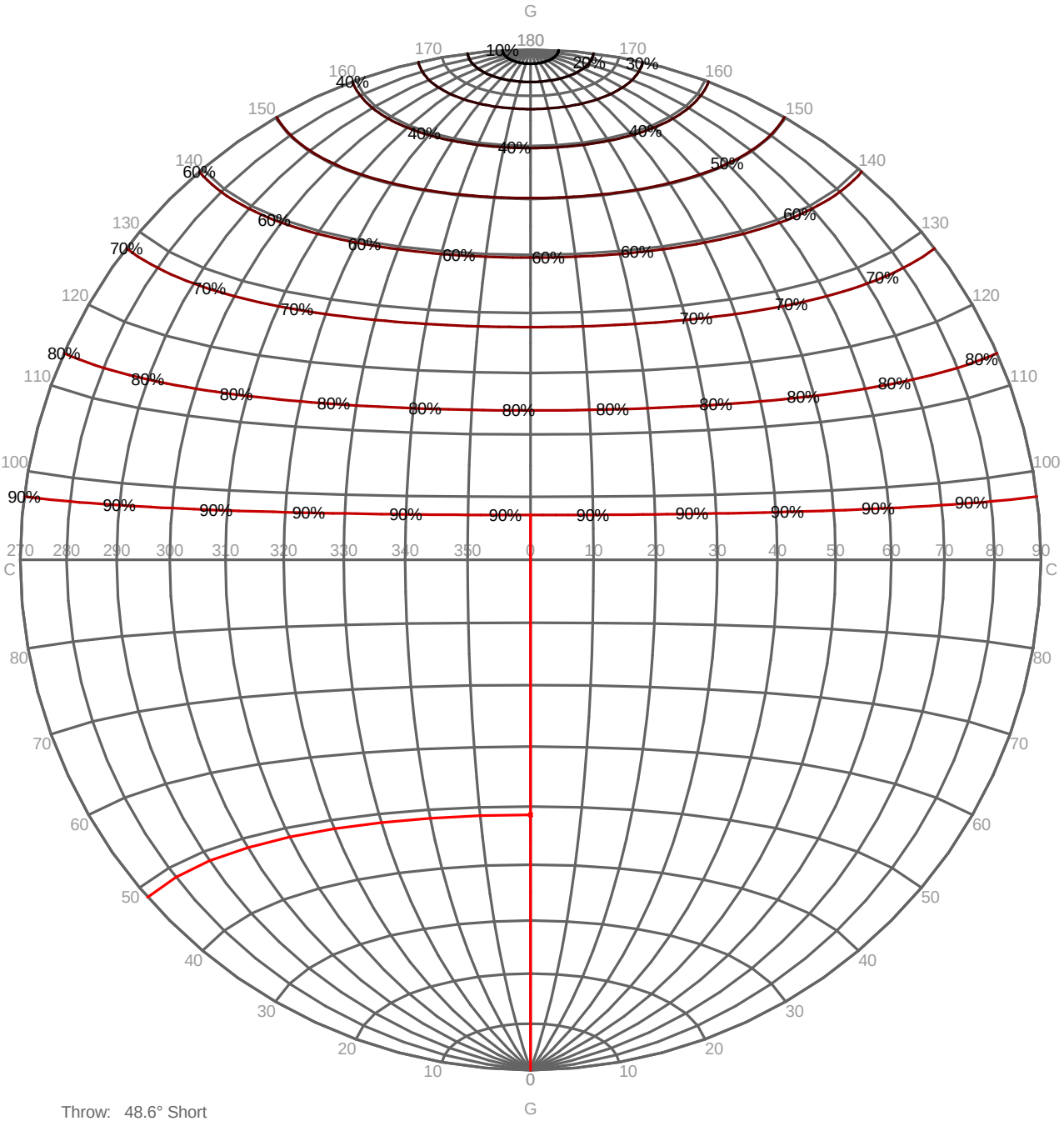
	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	5888.20	5888.20	5888.20	5888.20	5888.20	5888.20	5888.20	5888.20	5888.20	5888.20
G 5.0	5264.62	5264.62	5264.62	5264.62	5264.62	5264.62	5264.62	5264.62	5264.62	5264.62
G 10.0	4823.87	4823.87	4823.87	4823.87	4823.87	4823.87	4823.87	4823.87	4823.87	4823.87
G 15.0	4502.51	4502.51	4502.51	4502.51	4502.51	4502.51	4502.51	4502.51	4502.51	4502.51
G 20.0	4216.20	4216.20	4216.20	4216.20	4216.20	4216.20	4216.20	4216.20	4216.20	4216.20
G 25.0	3995.61	3995.61	3995.61	3995.61	3995.61	3995.61	3995.61	3995.61	3995.61	3995.61
G 30.0	3825.39	3825.39	3825.39	3825.39	3825.39	3825.39	3825.39	3825.39	3825.39	3825.39
G 35.0	3691.53	3691.53	3691.53	3691.53	3691.53	3691.53	3691.53	3691.53	3691.53	3691.53
G 40.0	3592.51	3592.51	3592.51	3592.51	3592.51	3592.51	3592.51	3592.51	3592.51	3592.51
G 45.0	3517.36	3517.36	3517.36	3517.36	3517.36	3517.36	3517.36	3517.36	3517.36	3517.36
G 50.0	3471.37	3471.37	3471.37	3471.37	3471.37	3471.37	3471.37	3471.37	3471.37	3471.37
G 55.0	3450.00	3450.00	3450.00	3450.00	3450.00	3450.00	3450.00	3450.00	3450.00	3450.00
G 60.0	3450.23	3450.23	3450.23	3450.23	3450.23	3450.23	3450.23	3450.23	3450.23	3450.23
G 65.0	3466.73	3466.73	3466.73	3466.73	3466.73	3466.73	3466.73	3466.73	3466.73	3466.73
G 70.0	3503.71	3503.71	3503.71	3503.71	3503.71	3503.71	3503.71	3503.71	3503.71	3503.71
G 75.0	3556.51	3556.51	3556.51	3556.51	3556.51	3556.51	3556.51	3556.51	3556.51	3556.51
G 80.0	3633.86	3633.86	3633.86	3633.86	3633.86	3633.86	3633.86	3633.86	3633.86	3633.86
G 85.0	3730.92	3730.92	3730.92	3730.92	3730.92	3730.92	3730.92	3730.92	3730.92	3730.92
G 90.0	3851.26	3851.26	3851.26	3851.26	3851.26	3851.26	3851.26	3851.26	3851.26	3851.26

Luminaire
Code DE-0431-CRO
Name DE-0431-CRO
Measurem.
Code DE-0431-CRO
Name DE-0431-CRO

Luminaire Flux	624.48 lm	Luminaire Power	7.10 W	Efficacy	87.95 lm/W	Efficiency	100.00%
Lamps Flux	624.48 lm	Maximum value	93.69 cd/klm	Position	C=0.00 G=55.00	CG	Double Symmetrical

PERCENTAGE ISOCANDLES

Projection: Equal Area SLI 5.9 Tight Tilting Angle:0°



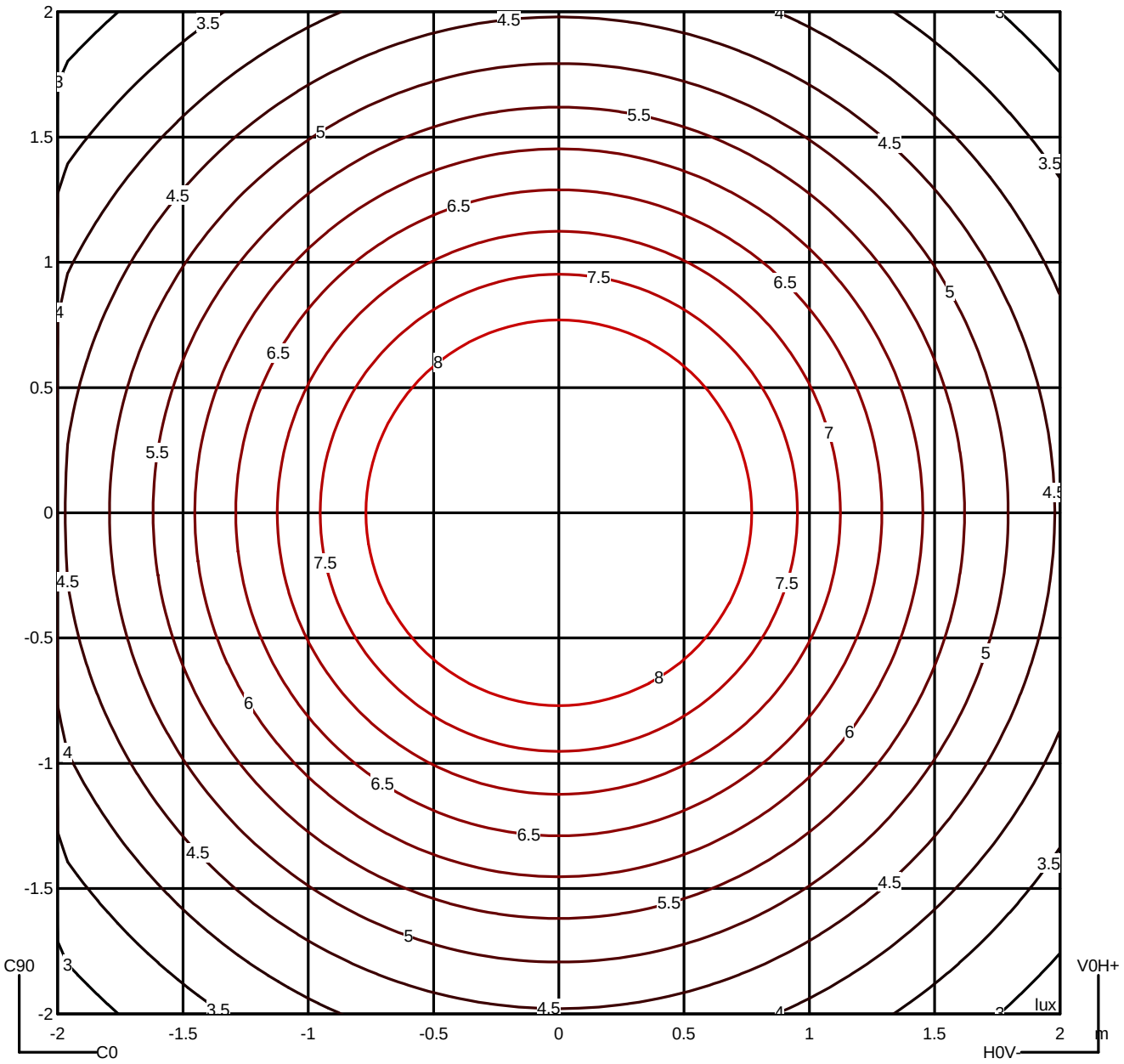
Throw: 48.6° Short

Luminaire
Code DE-0431-CRO
Name DE-0431-CRO
Measurem.
Code DE-0431-CRO
Name DE-0431-CRO

Luminaire Flux	624.48 lm	Luminaire Power	7.10 W	Efficacy	87.95 lm/W	Efficiency	100.00%
Lamps Flux	624.48 lm	Maximum value	93.69 cd/klm	Position	C=0.00 G=55.00	CG	Double Symmetrical

Isolux (Floor)

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



Luminaire
Code DE-0431-CRO
Name DE-0431-CRO
Measurem.
Code DE-0431-CRO
Name DE-0431-CRO

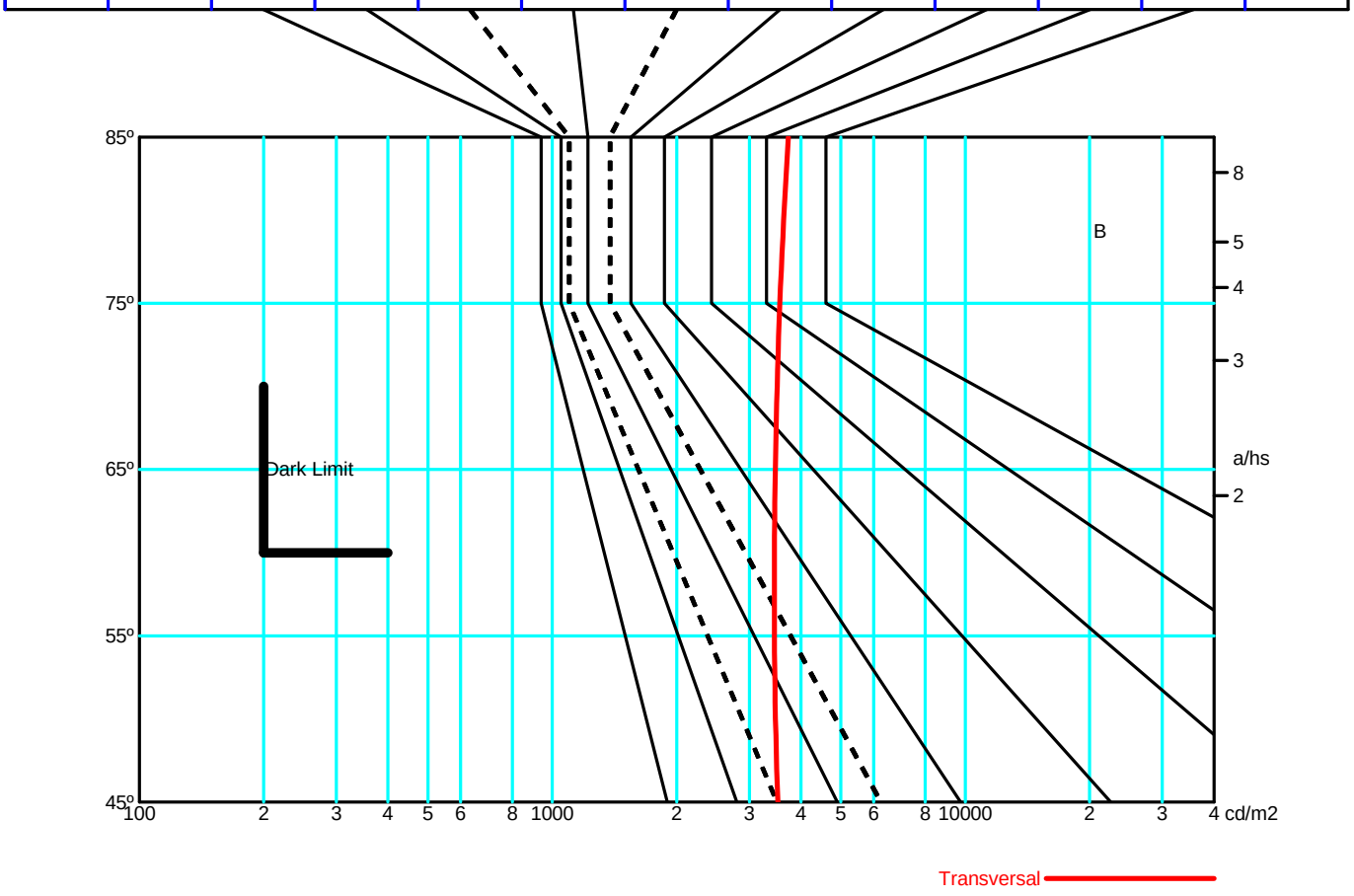
Luminaire Flux	624.48 lm	Luminaire Power	7.10 W	Efficacy	87.95 lm/W	Efficiency	100.00%
Lamps Flux	624.48 lm	Maximum value	93.69 cd/klm	Position	C=0.00 G=55.00	CG	Double Symmetrical

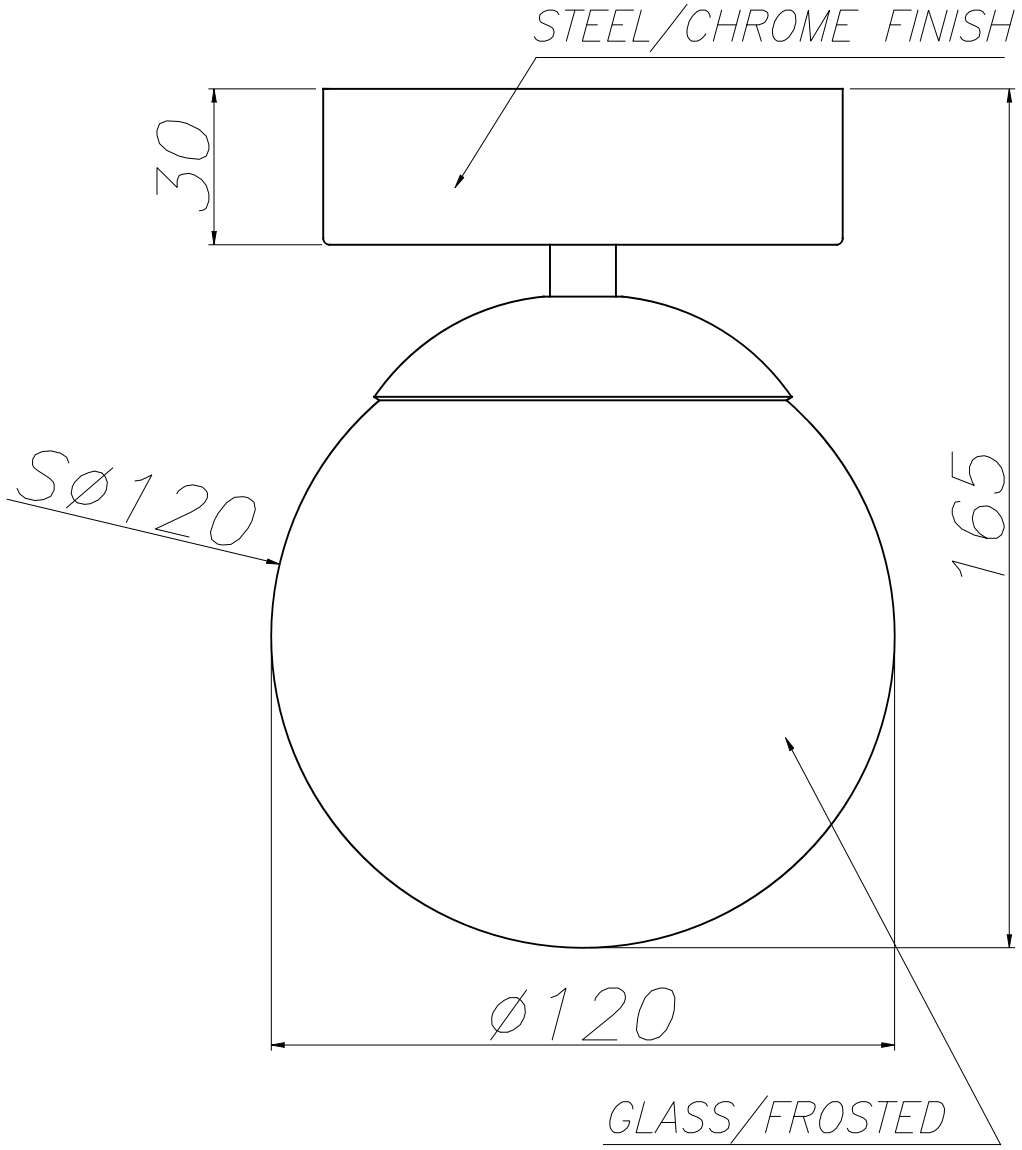
Average Luminance [cd/m²]

0.0°	45°	50°	55°	60°	65°	70°	75°	80°	85°	
	3517	3471	3450	3450	3467	3504	3557	3634	3731	---

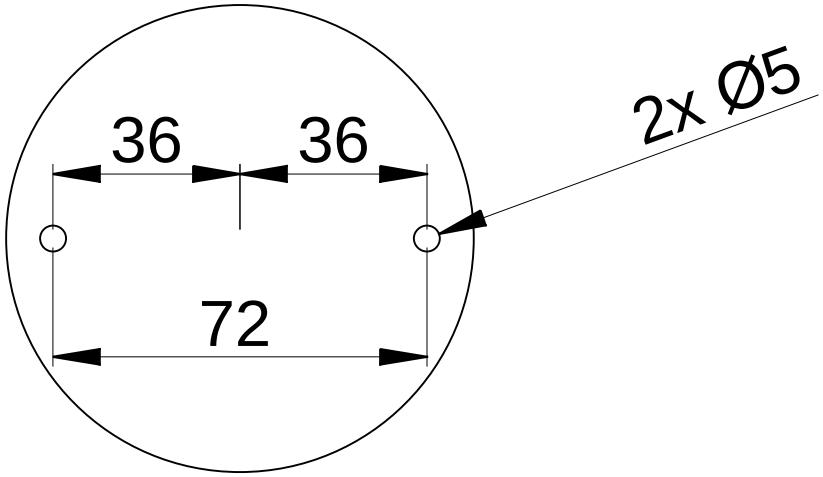
Flush mounted or transveral view

		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

