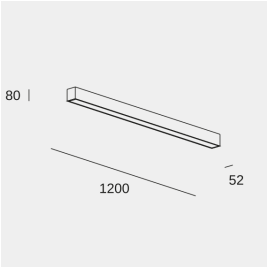
Ilo Surface

TC-0451-GRI

Sistema lineal Ilo Surface LED 27.9W 4000K ON-OFF Gris IP20 2635.00





CARACTERÍSTICAS TÉCNICAS

IP20

Potencia total luminaria : 27.9W

Lúmenes reales : 1773

Lúmenes nominales : 2635

Lm / W reales : 64

Material de la estructura : Aluminio

Acabado estructura : Gris

Material del difusor : Acrílico

Acabado difusor : Matizado

Voltaje / Frecuencia : 100-277V ~ 50/60Hz

Protocolo de regulación : ON-OFF

Power Factor : 0.90

Vida útil : 36.000h L70B30

Garantía : 2 Años

Luminaria fácilmente reciclable

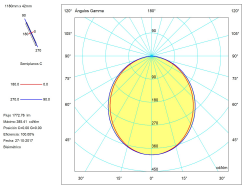
CARACTERÍSTICAS LUMINOTÉCNICAS

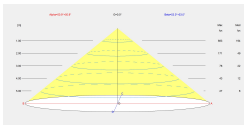
CRI: 80

MacAdam steps: 3

Riesgo fotobiológico: RG0

Portalámparas	Cantidad	Potencia fuente de luz (W)	Temperatura de color correlacionada (CCT)
LED	1	25W	4000K





LOGÍSTICA

Peso neto (Kg): 2.1

Peso embalado (Kg): 2.57

Embalaje: 1250mm x 85mm x 110mm

6 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 TC-0451-GRI
Name Colgante ILO leds 28W 4000K
Measurem.
Code TC-0359-BLA
Name Colgante ILO leds 28W 4000K

Luminaire Flux	1772.76 lm	Luminaire Power	28.40 W	Efficacy	62.42 lm/W	Efficiency	100.00%
Lamps Flux	1772.76 lm	Maximum value	385.42 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Rectangular Luminaire	Length	1170 mm	Width	40 mm	Height	1 mm
Rectangular Luminous Area	Length	1170 mm	Width	40 mm	Height	0 mm
Horizontal Luminous Area	0.046800 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°		0.011322 m2	

Coordinate system	CG	Symmetry Type	Double Symmetrical
Date	27-10-2017	Maximum Gamma Angle	90
Measurement Distance	0.00	Measurement Flux	1772.76 lm

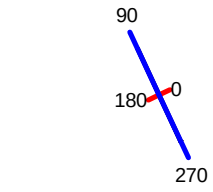
Operator		Source Voltage [V]	
Temperature	25.00 °C	Source current [A]	
Humidity	60.00 %	Photocell	
Notes			

Luminaire Lamps

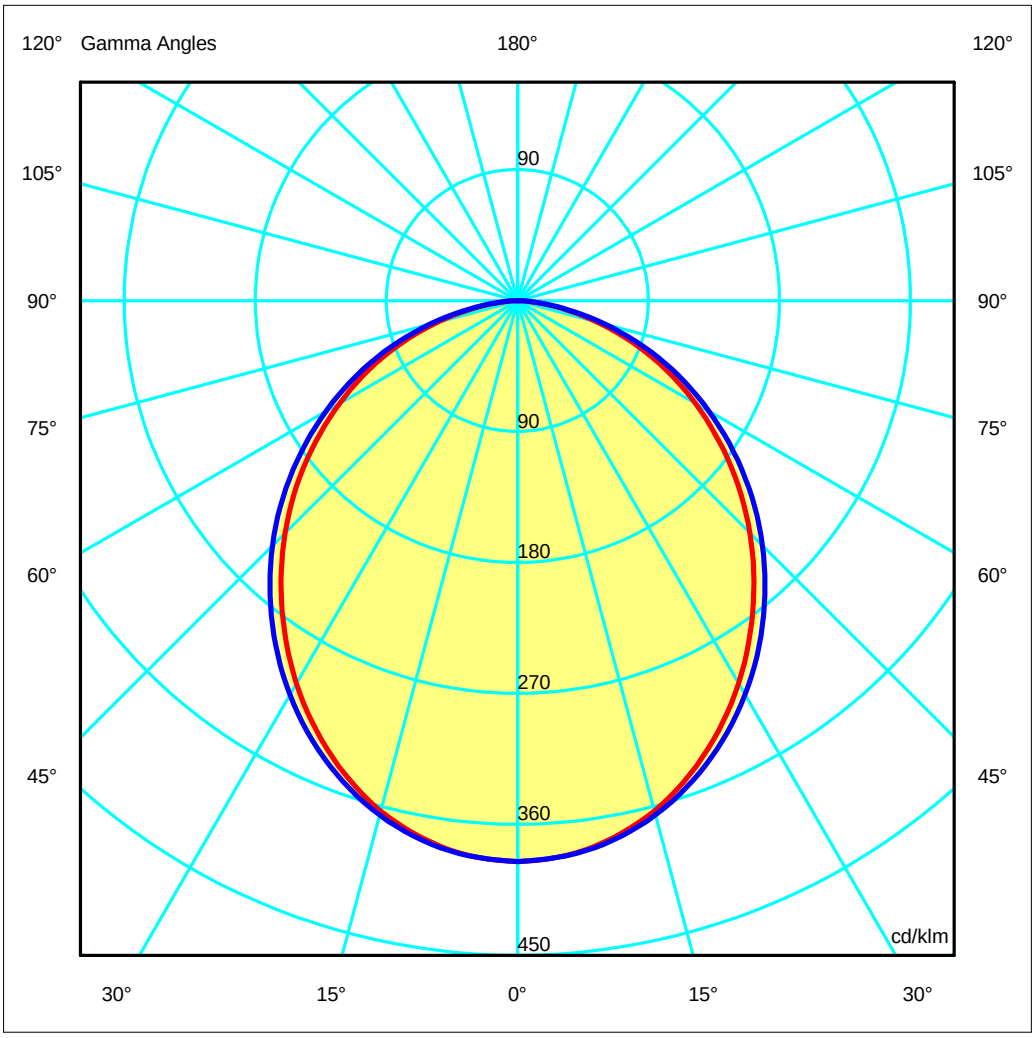
Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
	TC-0451-GRI	TC-0451-GRI	1772.76	28.40	1

C.I.E.	49 80 96 100 100	D DIN 5040	A30
F UTE	1.00 E	B NBN	BZ 4

1170mm x 40mm



C Halfplanes
180.0 — 0.0
270.0 — 90.0



ULOR 0.00 %
DLOR100.00 %
RN 0.00 %

Luminaire
Code TC-0451-GRI
Name Colgante ILO leds 28W 4000K
Measurem.
Code TC-0359-BLA
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Lamps Flux	1772.76 lm	Maximum value	385.42 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

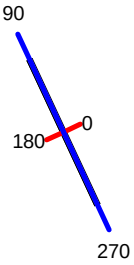
Luminous Intensity Table cd/klm **Table 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	385.42	385.42	385.42	385.42	385.42	385.42	385.42
G 5.0	382.84	382.82	382.77	382.91	383.13	383.23	382.97
G 10.0	375.06	375.23	375.48	375.88	376.32	376.56	376.60
G 15.0	363.08	363.08	363.76	364.69	365.28	365.78	365.96
G 20.0	346.44	346.70	347.64	348.83	350.22	351.76	351.34
G 25.0	326.39	326.78	328.48	330.04	331.77	333.23	333.47
G 30.0	303.70	304.41	305.83	308.08	310.52	312.66	312.64
G 35.0	278.69	279.81	281.75	284.87	286.79	288.59	289.41
G 40.0	252.64	253.69	255.54	258.66	261.16	264.54	264.28
G 45.0	225.65	226.63	229.81	231.60	234.55	236.87	237.91
G 50.0	198.02	198.45	200.79	203.60	206.65	209.95	210.21
G 55.0	169.39	170.32	173.42	176.06	178.02	180.22	181.22
G 60.0	140.99	141.64	143.61	146.39	148.73	152.47	151.86
G 65.0	112.71	113.05	116.07	118.41	119.40	121.34	122.09
G 70.0	84.06	84.52	85.79	87.84	89.57	92.79	92.06
G 75.0	55.94	56.80	59.04	60.33	60.84	62.01	61.84
G 80.0	31.03	31.46	32.01	32.99	33.74	35.42	34.31
G 85.0	10.18	10.93	11.72	12.18	11.65	11.76	11.88
G 90.0	0.83	0.85	0.85	0.84	0.83	0.84	0.82

Luminaire
Code TC-0451-GRI
Name Colgante ILO leds 28W 4000K
Measurem.
Code TC-0359-BLA
Name Colgante ILO leds 28W 4000K

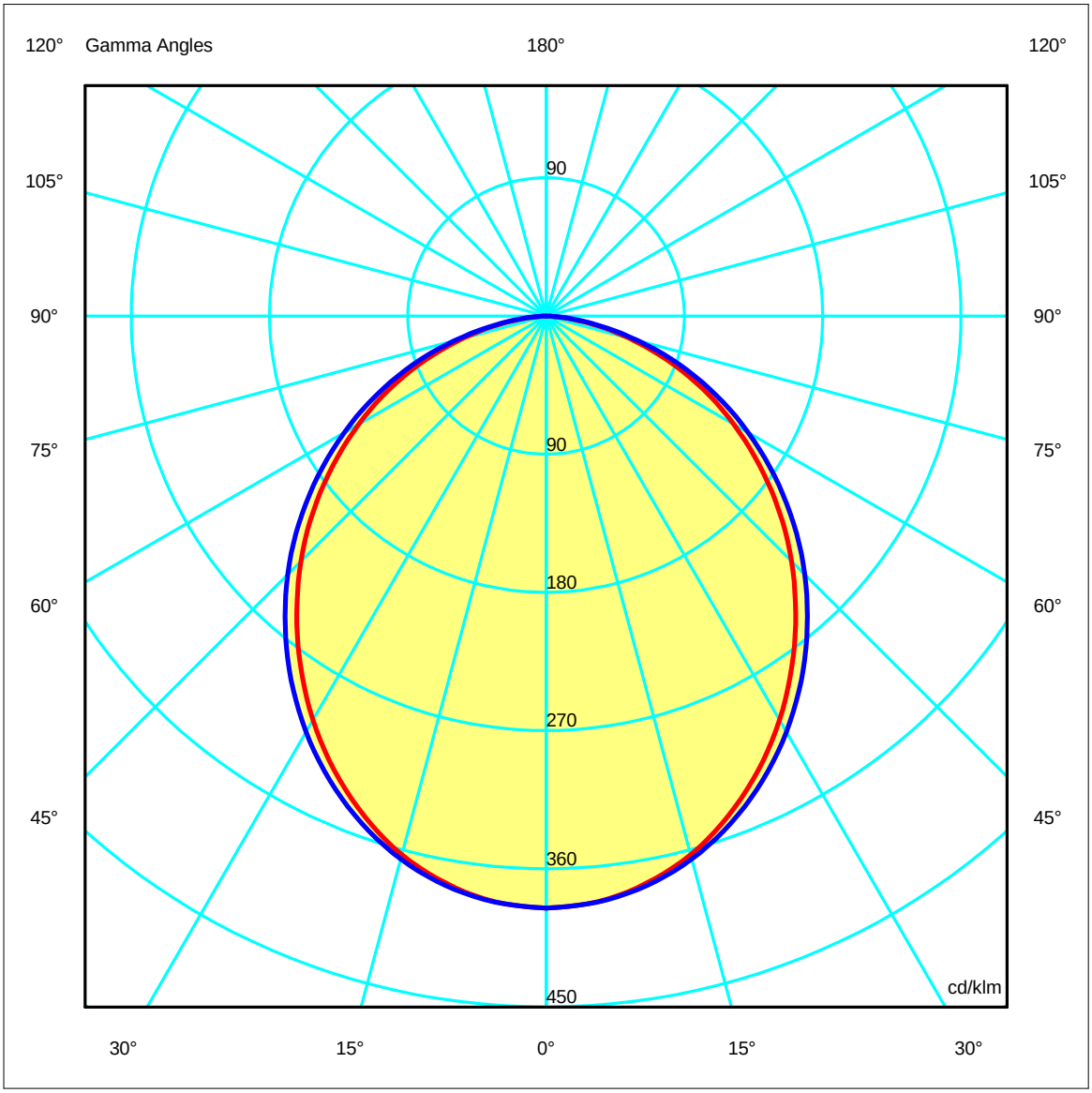
Luminaire Flux	1772.76 lm	Luminaire Power	28.40 W	Efficacy	62.42 lm/W	Efficiency	100.00%
Lamps Flux	1772.76 lm	Maximum value	385.42 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

1170mm x 40mm



C Halfplanes





Luminaire
Code TC-0451-GRI
Name Colgante ILO leds 28W 4000K
Measurem.
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Name Colgante ILO leds 28W 4000K

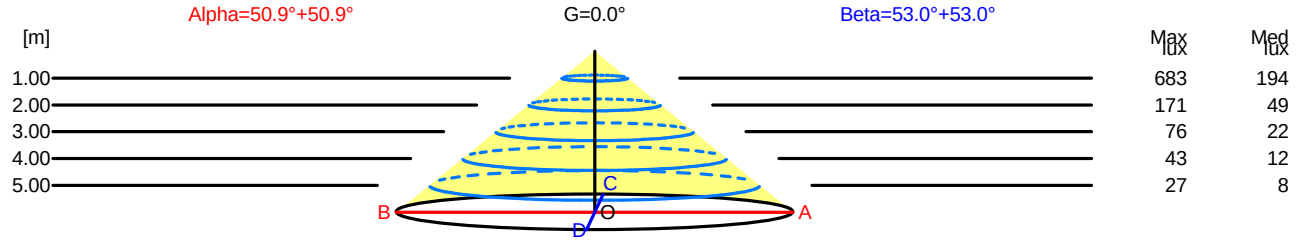
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Lamps Flux	1772.76 lm	Maximum value	385.42 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

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	1.23	2.46	3.70	4.93	6.16	OC	1.33	2.66	3.99	5.31	6.64
OB	1.23	2.46	3.70	4.93	6.16	OD	1.33	2.66	3.99	5.31	6.64

Luminous Intensities [cd/klm]

	0	5	15	25	35	45	55	65	75	85
OA	683.25	678.69	643.66	578.61	494.05	400.03	300.28	199.80	99.16	18.05
OB	683.25	678.69	643.66	578.61	494.05	400.03	300.28	199.80	99.16	18.05
OC	683.25	678.92	648.76	591.16	513.06	421.76	321.26	216.43	109.62	21.06
OD	683.25	678.92	648.76	591.16	513.06	421.76	321.26	216.43	109.62	21.06



H[m]	D[m]	Max lux	Med lux	Alpha=50.9°+50.9° G=0.0
1.00	2.46	683	194	
2.00	4.93	171	49	
3.00	7.39	76	22	
4.00	9.86	43	12	
5.00	12.32	27	8	

H[m]	D[m]	Max lux	Med lux	Beta=53.0°+53.0° G=0.0
1.00	2.66	683	194	
2.00	5.31	171	49	
3.00	7.97	76	22	
4.00	10.63	43	12	
5.00	13.29	27	8	

Luminaire
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Lamps Flux	1772.76 lm	Maximum value	385.42 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

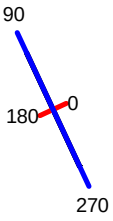
UGR
S = 0.250

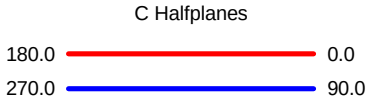
Reflectancies										
Ceiling/Cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
WorkingPlane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
RoomDimensions	ViewedCrosswise					ViewedEndwise				
x=2H y=2H	20.7	22.0	21.0	22.2	22.5	21.1	22.3	21.3	22.6	22.8
x=2H y=3H	22.2	23.4	22.5	23.6	23.9	22.6	23.8	22.9	24.1	24.3
x=2H y=4H	22.8	23.9	23.1	24.1	24.4	23.2	24.3	23.6	24.6	24.9
x=2H y=6H	23.1	24.1	23.5	24.4	24.8	23.6	24.6	24.0	25.0	25.3
x=2H y=8H	23.2	24.2	23.6	24.5	24.8	23.7	24.7	24.1	25.0	25.3
x=2H y=12H	23.2	24.2	23.6	24.5	24.9	23.8	24.7	24.2	25.0	25.4
x=4H y=2H	21.5	22.6	21.8	22.9	23.2	21.8	22.9	22.1	23.1	23.4
x=4H y=3H	23.1	24.1	23.5	24.4	24.8	23.5	24.4	23.9	24.8	25.1
x=4H y=4H	23.8	24.7	24.2	25.0	25.4	24.2	25.0	24.6	25.4	25.8
x=4H y=6H	24.3	25.0	24.7	25.4	25.8	24.7	25.5	25.1	25.8	26.2
x=4H y=8H	24.4	25.1	24.8	25.5	25.9	24.9	25.5	25.3	25.9	26.3
x=4H y=12H	24.5	25.1	24.9	25.5	25.9	25.0	25.6	25.4	26.0	26.4
x=8H y=4H	24.2	24.8	24.6	25.2	25.6	24.5	25.2	24.9	25.6	26.0
x=8H y=6H	24.7	25.3	25.2	25.7	26.2	25.1	25.7	25.6	26.1	26.6
x=8H y=8H	24.9	25.4	25.4	25.9	26.3	25.3	25.8	25.8	26.3	26.7
x=8H y=12H	25.0	25.4	25.5	25.9	26.4	25.5	25.9	26.0	26.3	26.8
x=12H y=4H	24.2	24.8	24.6	25.2	25.6	24.5	25.1	25.0	25.5	26.0
x=12H y=6H	24.8	25.3	25.3	25.7	26.2	25.2	25.7	25.7	26.1	26.6
x=12H y=8H	25.0	25.4	25.5	25.9	26.4	25.4	25.8	25.9	26.3	26.8

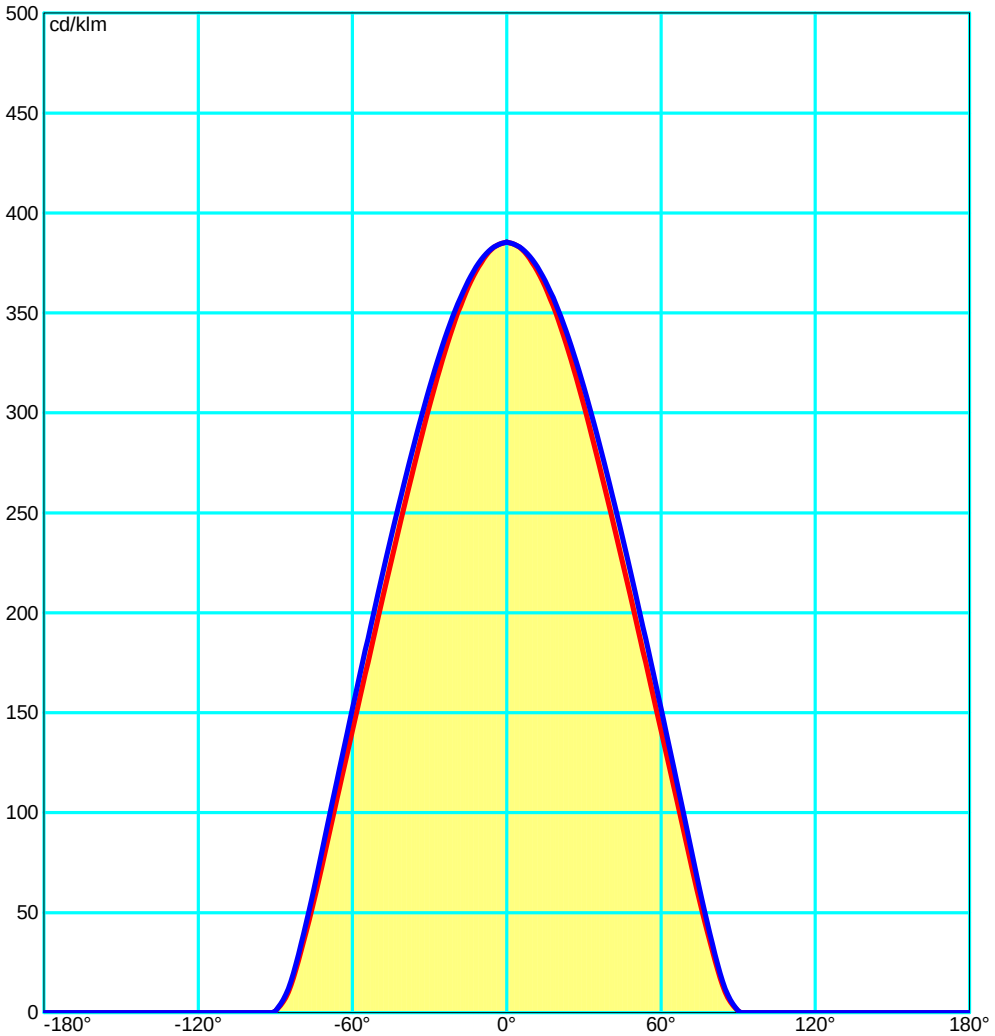
Luminaire
Code TC-0451-GRI
Name Colgante ILO leds 28W 4000K
Measurem.
Code TC-0359-BLA
Name Colgante ILO leds 28W 4000K

Luminaire Flux	1772.76 lm	Luminaire Power	28.40 W	Efficacy	62.42 lm/W	Efficiency	100.00%
Lamps Flux	1772.76 lm	Maximum value	385.42 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

1170mm x 40mm



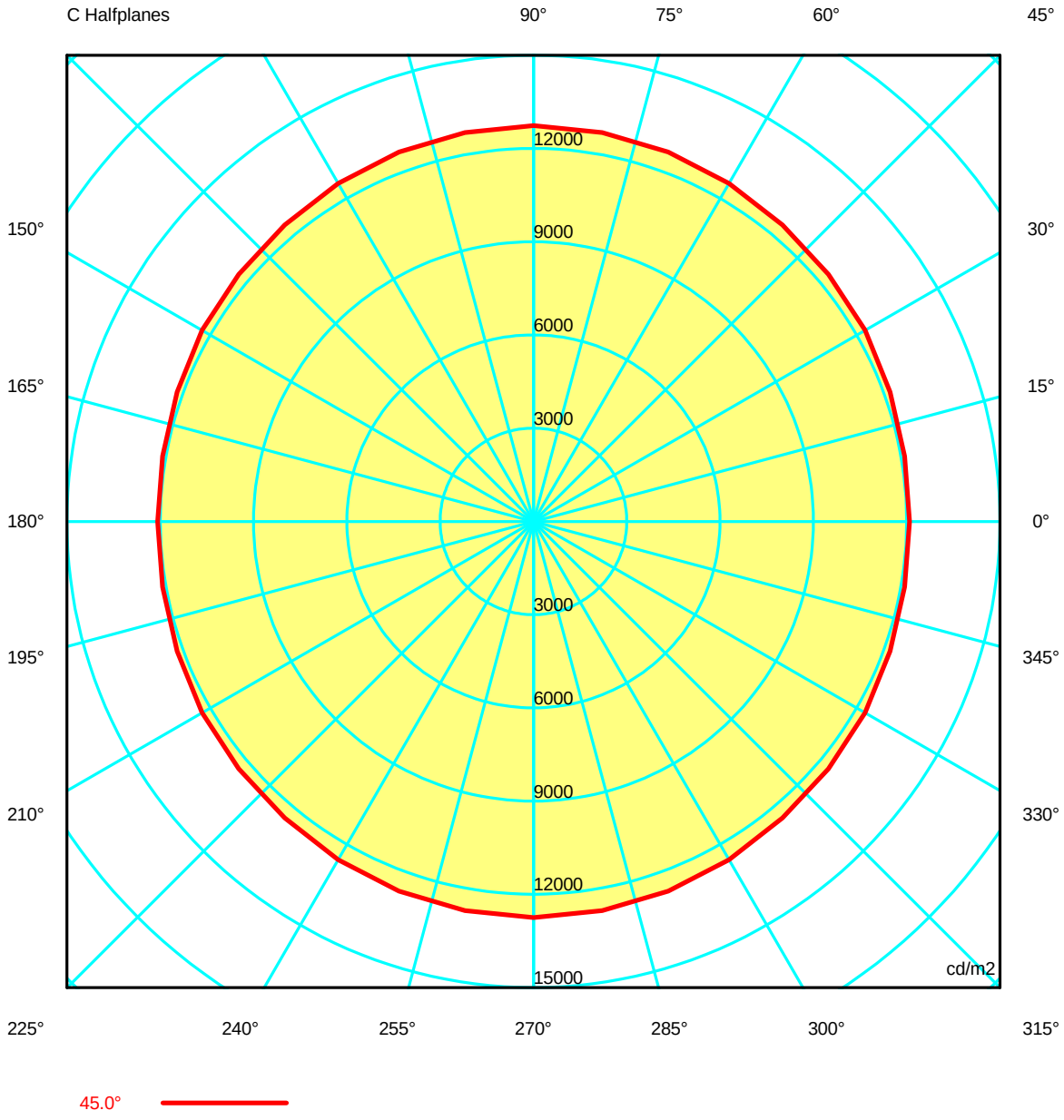




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Lamps Flux	1772.76 lm	Maximum value	385.42 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Luminance



Luminaire
Code TC-0451-GRI
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Measurem.
Code TC-0359-BLA
Name Colgante ILO leds 28W 4000K

Luminaire Flux	1772.76 lm	Luminaire Power	28.40 W	Efficacy	62.42 lm/W	Efficiency	100.00%
Lamps Flux	1772.76 lm	Maximum value	385.42 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	14599.34	14599.34	14599.34	14599.34	14599.34	14599.34	14599.34	14599.34	14599.34	14599.34	14599.34	14599.34	14599.34
G 5.0	14557.30	14557.01	14555.50	14554.51	14557.41	14562.56	14568.02	14572.08	14570.08	14562.23	14570.08	14572.08	14568.02
G 10.0	14426.20	14430.34	14435.44	14442.47	14452.07	14463.56	14474.58	14482.03	14484.56	14485.43	14484.56	14482.03	14474.58
G 15.0	14238.57	14238.57	14244.56	14265.11	14290.36	14310.58	14324.84	14338.78	14347.90	14351.39	14347.90	14338.78	14324.84
G 20.0	13965.27	13969.60	13985.43	14013.47	14045.20	14078.02	14117.39	14164.84	14182.06	14162.87	14182.06	14164.84	14117.39
G 25.0	13641.55	13646.77	13677.65	13728.79	13772.86	13817.11	13866.47	13912.02	13930.84	13937.44	13930.84	13912.02	13866.47
G 30.0	13283.73	13302.11	13330.81	13376.74	13440.33	13510.04	13581.78	13652.60	13684.54	13674.79	13684.54	13652.60	13581.78
G 35.0	12887.24	12919.95	12962.03	13028.88	13127.31	13208.02	13261.82	13320.27	13362.77	13383.12	13362.77	13320.27	13261.82
G 40.0	12492.56	12525.23	12567.45	12636.21	12740.42	12830.17	12914.03	13036.25	13096.09	13068.00	13096.09	13036.25	12914.03
G 45.0	12088.19	12108.85	12193.47	12310.89	12375.05	12452.72	12564.73	12656.47	12713.06	12744.83	12713.06	12656.47	12564.73
G 50.0	11669.58	11686.42	11730.30	11832.46	11942.92	12053.51	12178.18	12320.96	12377.41	12387.60	12377.41	12320.96	12178.18
G 55.0	11186.36	11212.69	11305.85	11452.72	11577.54	11670.87	11756.70	11858.09	11932.13	11967.93	11932.13	11858.09	11756.70
G 60.0	10681.18	10706.27	10767.31	10879.47	11025.17	11142.74	11267.93	11475.34	11571.23	11504.69	11571.23	11475.34	11267.93
G 65.0	10101.85	10122.41	10205.51	10403.69	10563.13	10644.18	10701.99	10819.52	10911.26	10942.66	10911.26	10819.52	10701.99
G 70.0	9309.31	9337.68	9393.64	9501.10	9658.20	9781.35	9920.31	10181.79	10298.19	10195.82	10298.19	10181.79	9920.31
G 75.0	8186.42	8248.64	8412.95	8641.31	8790.29	8851.64	8904.67	9027.34	9089.52	9049.97	9089.52	9027.34	8904.67
G 80.0	6767.78	6831.90	6892.97	6983.12	7133.10	7237.94	7360.88	7638.95	7711.75	7483.93	7711.75	7638.95	7360.88
G 85.0	4425.22	4640.63	4864.93	5094.52	5277.65	5233.22	5062.65	5072.69	5138.80	5163.16	5138.80	5072.69	5062.65
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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Measurem.
Code TC-0359-BLA
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Luminaire Flux	1772.76 lm	Luminaire Power	28.40 W	Efficacy	62.42 lm/W	Efficiency	100.00%
Lamps Flux	1772.76 lm	Maximum value	385.42 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	14599.34	14599.34	14599.34	14599.34	14599.34	14599.34	14599.34	14599.34	14599.34	14599.34	14599.34	14599.34	14599.34
G 5.0	14562.56	14557.41	14554.51	14555.50	14557.01	14557.30	14557.01	14555.50	14554.51	14557.41	14562.56	14568.02	14572.08
G 10.0	14463.56	14452.07	14442.47	14435.44	14430.34	14426.20	14430.34	14435.44	14442.47	14452.07	14463.56	14474.58	14482.03
G 15.0	14310.58	14290.36	14265.11	14244.56	14238.57	14238.57	14238.57	14244.56	14265.11	14290.36	14310.58	14324.84	14338.78
G 20.0	14078.02	14045.20	14013.47	13985.43	13969.60	13965.27	13969.60	13985.43	14013.47	14045.20	14078.02	14117.39	14164.84
G 25.0	13817.11	13772.86	13728.79	13677.65	13646.77	13641.55	13646.77	13677.65	13728.79	13772.86	13817.11	13866.47	13912.02
G 30.0	13510.04	13440.33	13376.74	13330.81	13302.11	13283.73	13302.11	13330.81	13376.74	13440.33	13510.04	13581.78	13652.60
G 35.0	13208.02	13127.31	13028.88	12962.03	12919.95	12887.24	12919.95	12962.03	13028.88	13127.31	13208.02	13261.82	13320.27
G 40.0	12830.17	12740.42	12636.21	12567.45	12525.23	12492.56	12525.23	12567.45	12636.21	12740.42	12830.17	12914.03	13036.25
G 45.0	12452.72	12375.05	12310.89	12193.47	12108.85	12088.19	12108.85	12193.47	12310.89	12375.05	12452.72	12564.73	12656.47
G 50.0	12053.51	11942.92	11832.46	11730.30	11686.42	11669.58	11686.42	11730.30	11832.46	11942.92	12053.51	12178.18	12320.96
G 55.0	11670.87	11577.54	11452.72	11305.85	11212.69	11186.36	11212.69	11305.85	11452.72	11577.54	11670.87	11756.70	11858.09
G 60.0	11142.74	11025.17	10879.47	10767.31	10706.27	10681.18	10706.27	10767.31	10879.47	11025.17	11142.74	11267.93	11475.34
G 65.0	10644.18	10563.13	10403.69	10205.51	10122.41	10101.85	10122.41	10205.51	10403.69	10563.13	10644.18	10701.99	10819.52
G 70.0	9781.35	9658.20	9501.10	9393.64	9337.68	9309.31	9337.68	9393.64	9501.10	9658.20	9781.35	9920.31	10181.79
G 75.0	8851.64	8790.29	8641.31	8412.95	8248.64	8186.42	8248.64	8412.95	8641.31	8790.29	8851.64	8904.67	9027.34
G 80.0	7237.94	7133.10	6983.12	6892.97	6831.90	6767.78	6831.90	6892.97	6983.12	7133.10	7237.94	7360.88	7638.95
G 85.0	5233.22	5277.65	5094.52	4864.93	4640.63	4425.22	4640.63	4864.93	5094.52	5277.65	5233.22	5062.65	5072.69
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-0451-GRI
Name Colgante ILO leds 28W 4000K
Measurem.
Code TC-0359-BLA
Name Colgante ILO leds 28W 4000K

Luminaire Flux	1772.76 lm	Luminaire Power	28.40 W	Efficacy	62.42 lm/W	Efficiency 100.00%
Lamps Flux	1772.76 lm	Maximum value	385.42 cd/klm	Position	C=0.00 G=0.00	CG Double Symmetrical

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

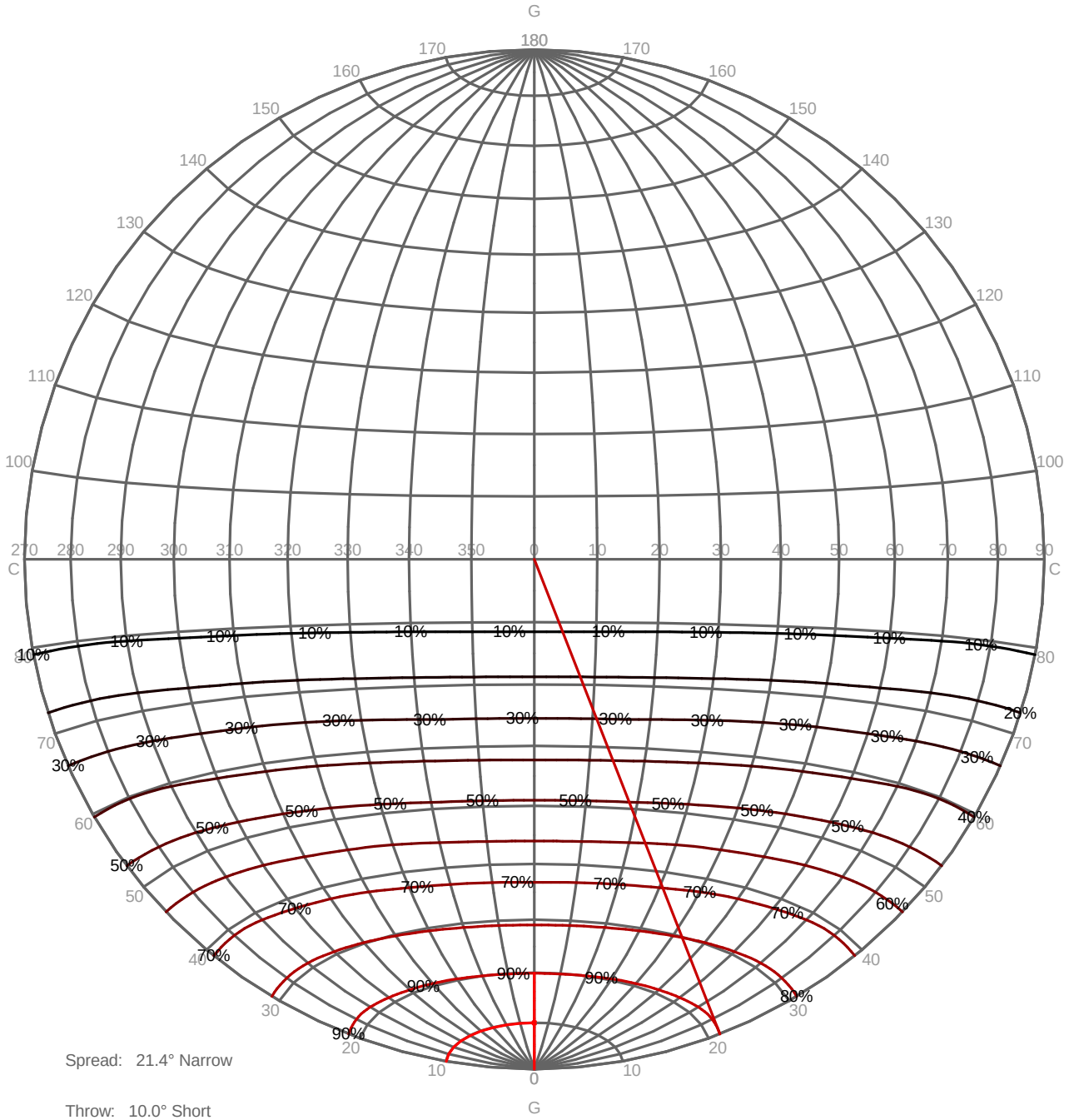
	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	14599.34	14599.34	14599.34	14599.34	14599.34	14599.34	14599.34	14599.34	14599.34	14599.34
G 5.0	14570.08	14562.23	14570.08	14572.08	14568.02	14562.56	14557.41	14554.51	14555.50	14557.01
G 10.0	14484.56	14485.43	14484.56	14482.03	14474.58	14463.56	14452.07	14442.47	14435.44	14430.34
G 15.0	14347.90	14351.39	14347.90	14338.78	14324.84	14310.58	14290.36	14265.11	14244.56	14238.57
G 20.0	14182.06	14162.87	14182.06	14164.84	14117.39	14078.02	14045.20	14013.47	13985.43	13969.60
G 25.0	13930.84	13937.44	13930.84	13912.02	13866.47	13817.11	13772.86	13728.79	13677.65	13646.77
G 30.0	13684.54	13674.79	13684.54	13652.60	13581.78	13510.04	13440.33	13376.74	13330.81	13302.11
G 35.0	13362.77	13383.12	13362.77	13320.27	13261.82	13208.02	13127.31	13028.88	12962.03	12919.95
G 40.0	13096.09	13068.00	13096.09	13036.25	12914.03	12830.17	12740.42	12636.21	12567.45	12525.23
G 45.0	12713.06	12744.83	12713.06	12656.47	12564.73	12452.72	12375.05	12310.89	12193.47	12108.85
G 50.0	12377.41	12387.60	12377.41	12320.96	12178.18	12053.51	11942.92	11832.46	11730.30	11686.42
G 55.0	11932.13	11967.93	11932.13	11858.09	11756.70	11670.87	11577.54	11452.72	11305.85	11212.69
G 60.0	11571.23	11504.69	11571.23	11475.34	11267.93	11142.74	11025.17	10879.47	10767.31	10706.27
G 65.0	10911.26	10942.66	10911.26	10819.52	10701.99	10644.18	10563.13	10403.69	10205.51	10122.41
G 70.0	10298.19	10195.82	10298.19	10181.79	9920.31	9781.35	9658.20	9501.10	9393.64	9337.68
G 75.0	9089.52	9049.97	9089.52	9027.34	8904.67	8851.64	8790.29	8641.31	8412.95	8248.64
G 80.0	7711.75	7483.93	7711.75	7638.95	7360.88	7237.94	7133.10	6983.12	6892.97	6831.90
G 85.0	5138.80	5163.16	5138.80	5072.69	5062.65	5233.22	5277.65	5094.52	4864.93	4640.63
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-0451-GRI
Name Colgante ILO leds 28W 4000K
Measurem.
Code TC-0359-BLA
Name Colgante ILO leds 28W 4000K

Luminaire Flux	1772.76 lm	Luminaire Power	28.40 W	Efficacy	62.42 lm/W	Efficiency	100.00%
Lamps Flux	1772.76 lm	Maximum value	385.42 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

PERCENTAGE ISOCANDLES

Projection: SLI 6.8 Tight Tilting Angle:0°



Spread: 21.4° Narrow

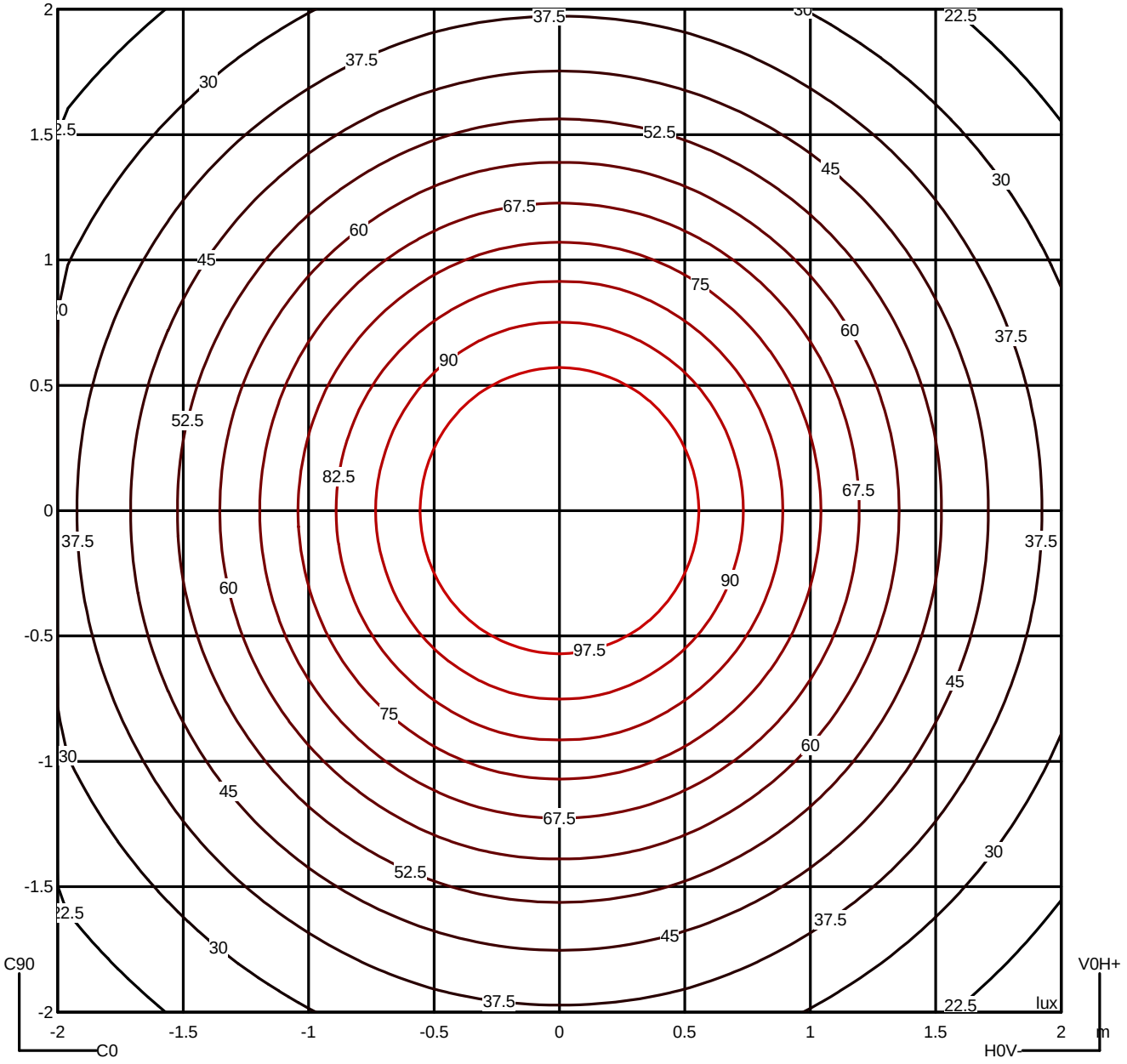
Throw: 10.0° Short

Luminaire
Code TC-0451-GRI
Name Colgante ILO leds 28W 4000K
Measurem.
Code TC-0359-BLA
Name Colgante ILO leds 28W 4000K

Luminaire Flux	1772.76 lm	Luminaire Power	28.40 W	Efficacy	62.42 lm/W	Efficiency	100.00%
Lamps Flux	1772.76 lm	Maximum value	385.42 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-0451-GRI
Name Colgante ILO leds 28W 4000K
Measurem.
Code TC-0359-BLA
Name Colgante ILO leds 28W 4000K

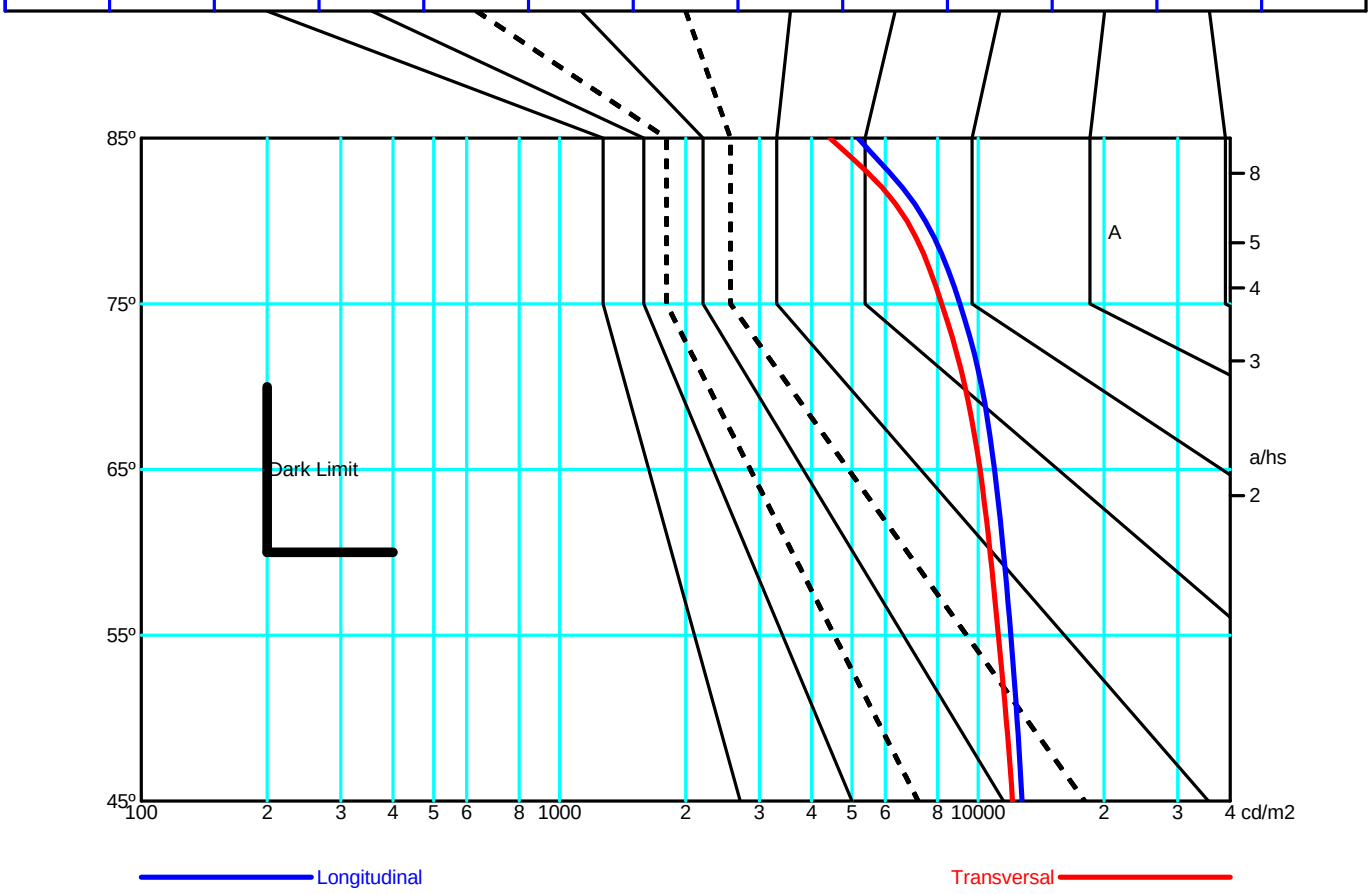
Luminaire Flux	1772.76 lm	Luminaire Power	28.40 W	Efficacy	62.42 lm/W	Efficiency	100.00%
Lamps Flux	1772.76 lm	Maximum value	385.42 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

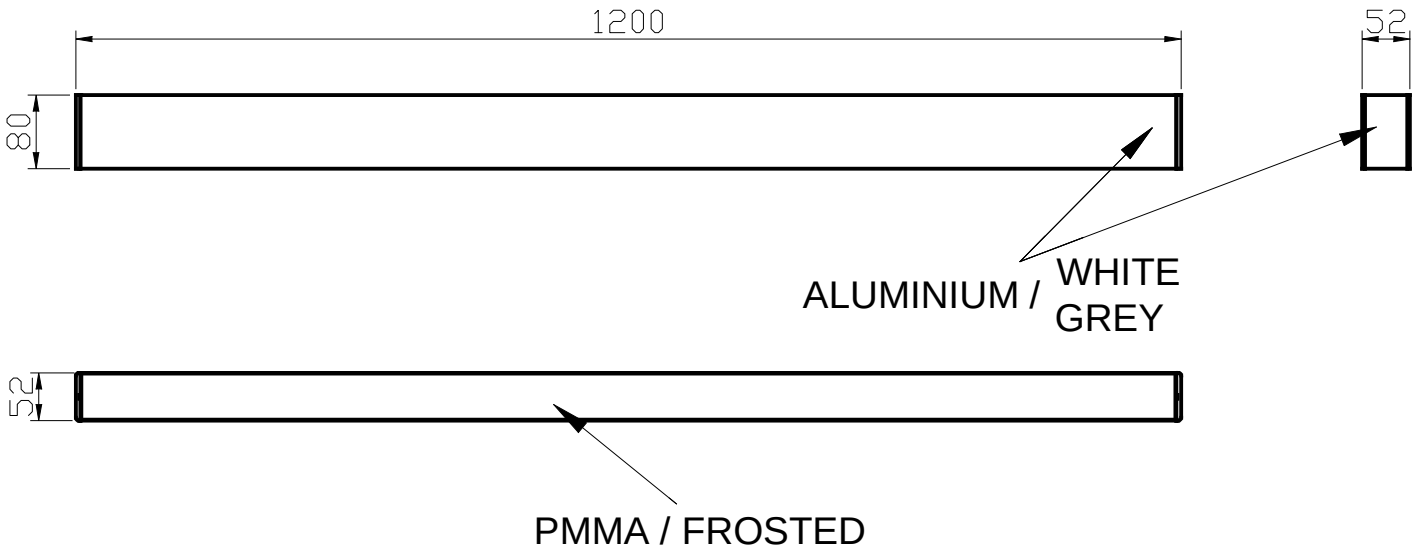
Average Luminance [cd/m²]

	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	12088	11670	11186	10681	10102	9309	8186	6768	4425	---
90.0°	12745	12388	11968	11505	10943	10196	9050	7484	5163	---

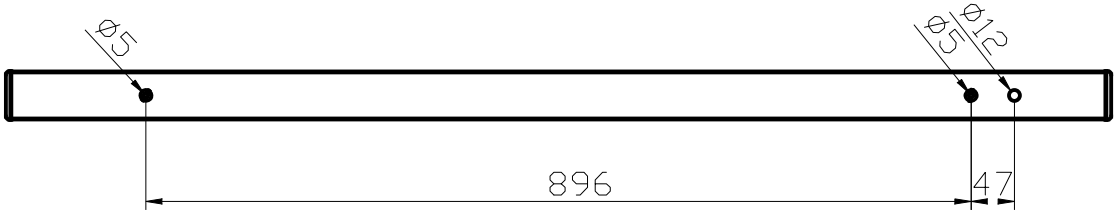
Flush mounted or longitudinal view

		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





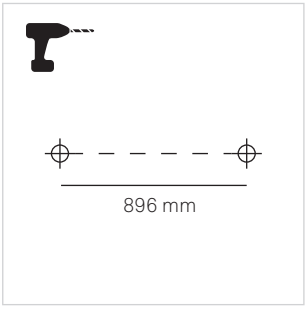
Installation template



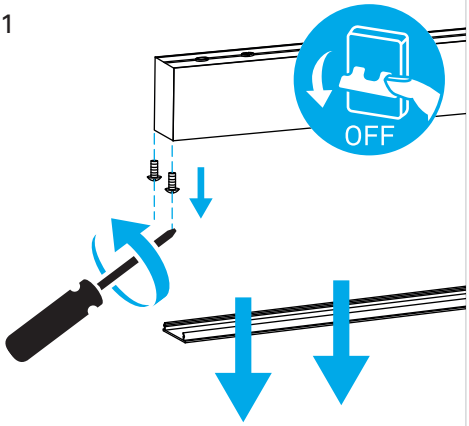
Ilo

TC-0450 TC-0451 TC-0452 TC-0453 TC-0454

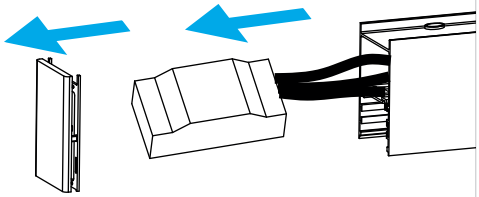




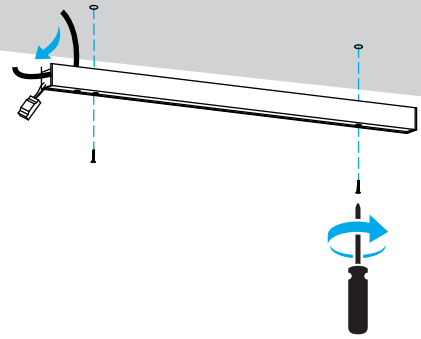
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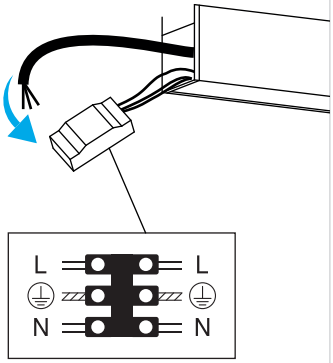
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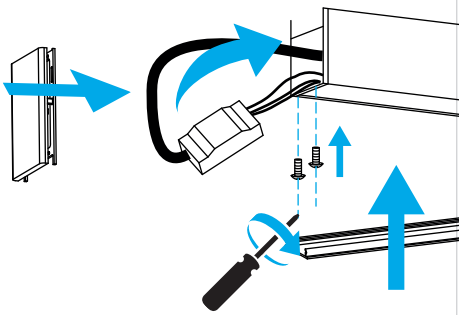
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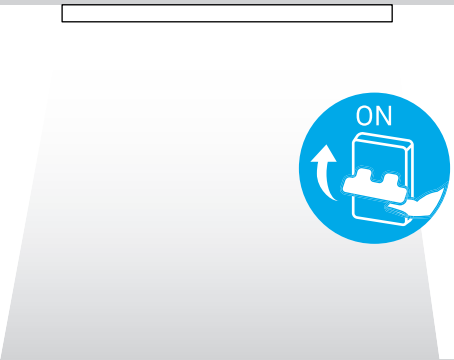
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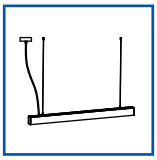
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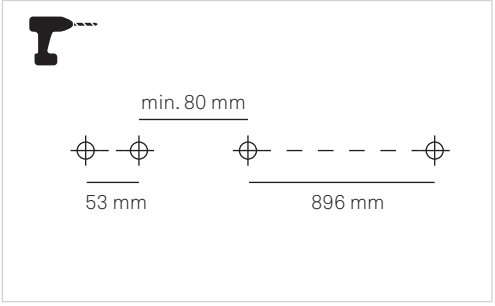


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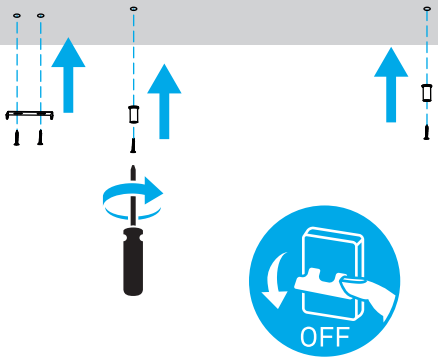


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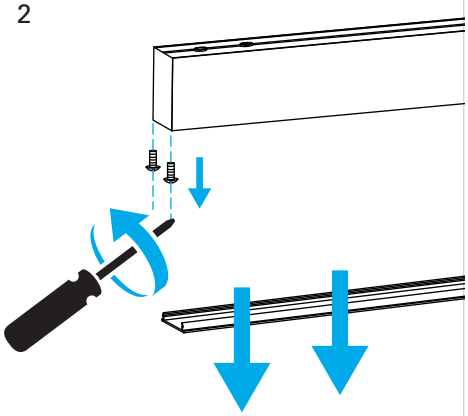
TC-0452
TC-0453



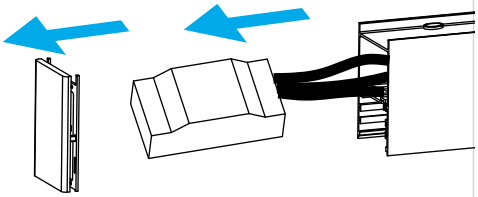
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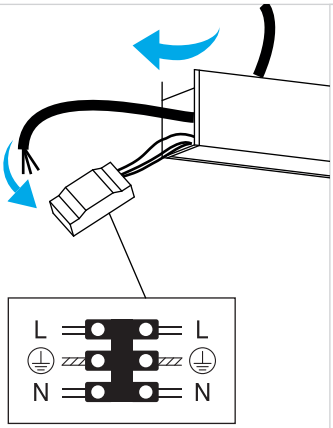
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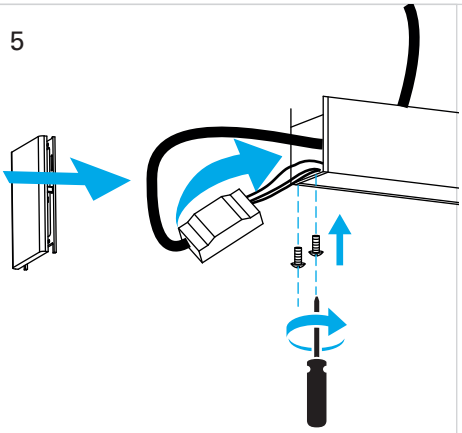
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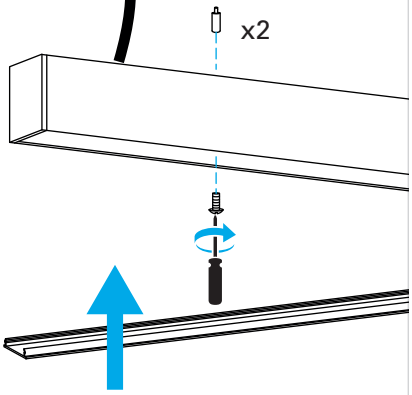
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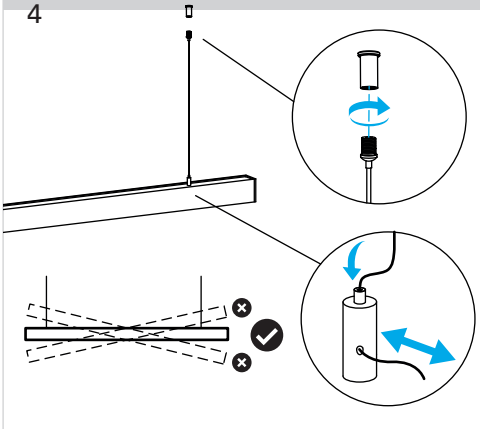
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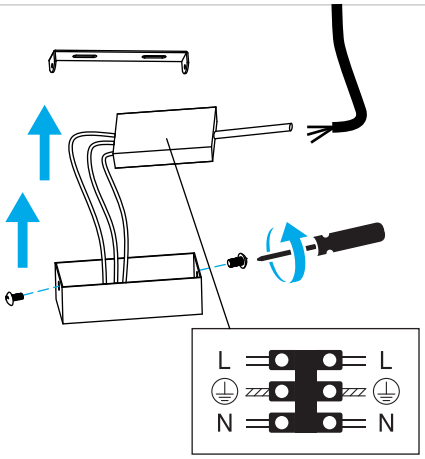
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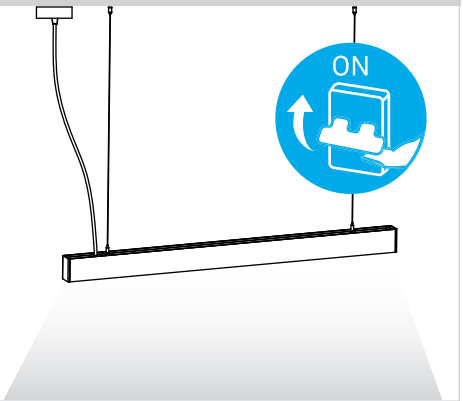
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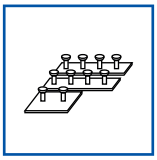


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6





NOT INCLUDED

TC-0454

