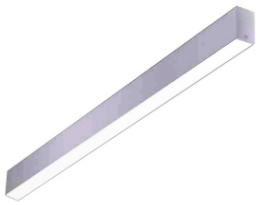
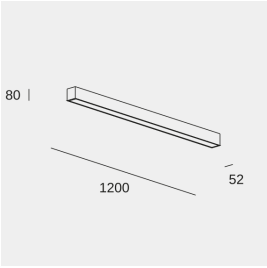
Ilo Surface

TC-0450-GRI

Lineal lighting system Ilo Surface LED 27.9W 3000K ON-OFF Grey IP20 2635.00





TECHNICAL FEATURES

IP20

Luminaire total power : 27.9W

Real lumens : 1773

Nominal lumens : 2635

Real lm/W : 64

Structure material : Aluminium

Structure finish : Grey

Diffuser material : Acrylic

Diffuser finish : Tinted

Voltage / frequency : 100-277V ~ 50/60Hz

Dimming protocol : ON-OFF

Power Factor : 0.90

Useful life : 36.000h L70B30

Warranty : 3 Years

Easily recyclable luminaire

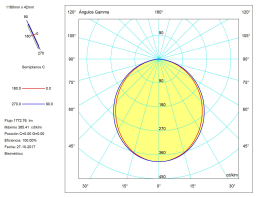
LUMINOTECHNIC FEATURES

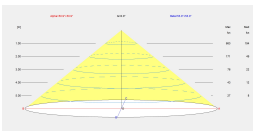
CRI: 80

MacAdam steps: 3

Photobiological risk: RG0

Lampholder	Quantity	Light source power (W)	Correlated Colour Temperature (CCT)
LED	1	25W	3000K





LOGISTICS

Net weight (kg): 2.07

Packaged weight (kg): 2.55

Packaging: 1250mm x 85mm x 110mm

6 Un

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-0450-GRI
Name Colgante ILO leds 28W 3000K
Measurem.
Code TC-0359-BLA
Name Colgante ILO leds 28W 3000K

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	385.41 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

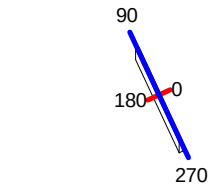
Rectangular Luminaire	Length	1180 mm	Width	42 mm	Height	60 mm
Rectangular Luminous Area	Length	1170 mm	Width	40 mm	Height	0 mm
Horizontal Luminous Area	0.046800 m2		Emitting area on Plane 180°		0.000000 m2	
Emitting area on Plane 0°	0.000000 m2		Emitting area on Plane 270°		0.000000 m2	
Emitting area 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	LEDS		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-0450-GRI	TC-0450-GRI	1772.76	28.40	1

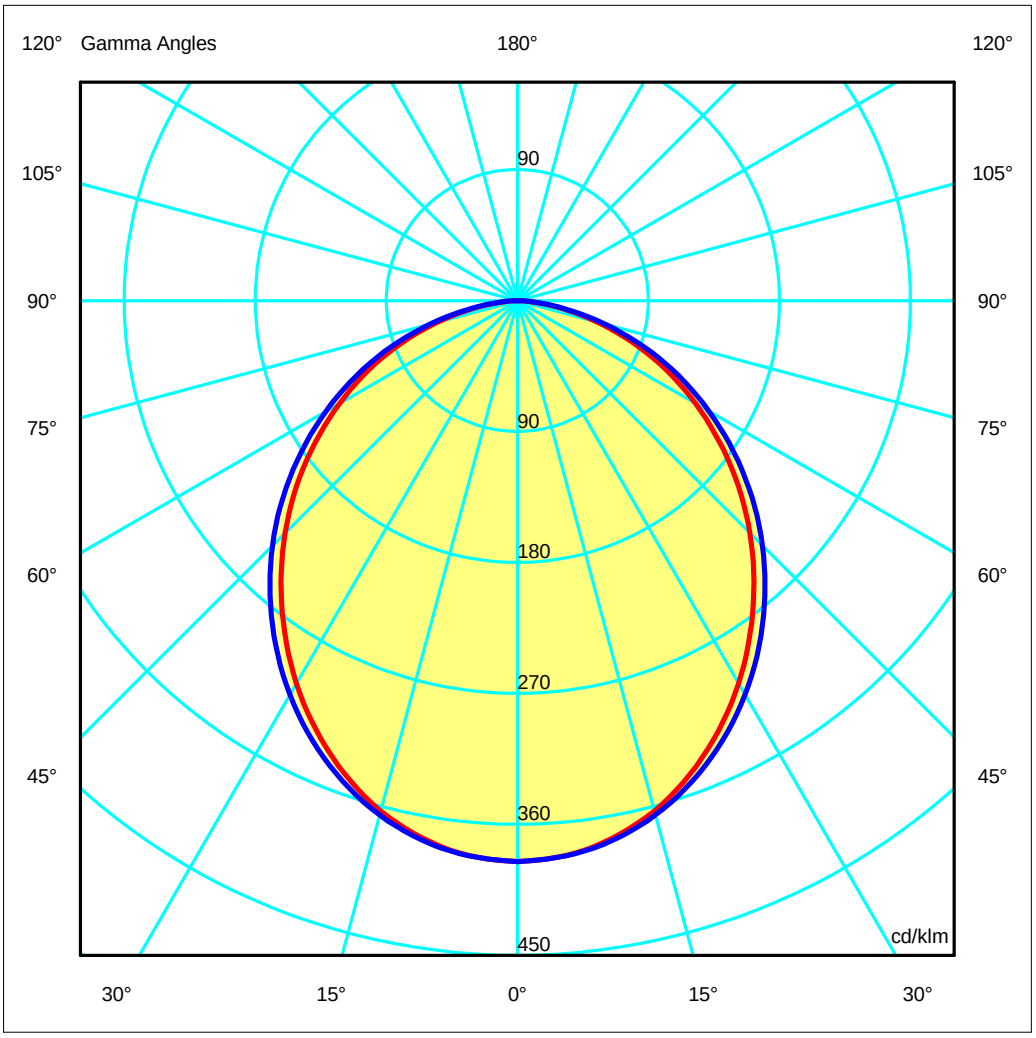
C.I.E.	49 80 96 100 100	D DIN 5040	A30
F UTE	1.00 E	B NBN	BZ 4

1180mm x 42mm



C Halfplanes

180.0 — 0.0
270.0 — 90.0



ULOR 0.00 %
DLOR100.00 %
RN 0.00 %

Luminaire
Code TC-0450-GRI
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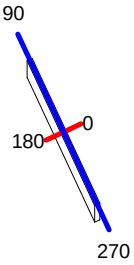
Luminous Intensity Table cd/klm **Table 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	385.41	385.41	385.41	385.41	385.41	385.41	385.41
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	376.31	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	304.40	305.83	308.08	310.52	312.67	312.64
G 35.0	278.69	279.81	281.75	284.87	286.79	288.60	289.42
G 40.0	252.64	253.69	255.54	258.66	261.16	264.54	264.28
G 45.0	225.66	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	176.07	178.02	180.22	181.22
G 60.0	140.99	141.64	143.60	146.39	148.73	152.47	151.86
G 65.0	112.71	113.05	116.07	118.42	119.40	121.34	122.09
G 70.0	84.05	84.52	85.79	87.84	89.57	92.79	92.06
G 75.0	55.93	56.80	59.05	60.33	60.85	62.01	61.83
G 80.0	31.03	31.46	32.01	33.00	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	0.84	0.84	0.85	0.84	0.83	0.84	0.82

Luminaire
Code TC-0450-GRI
Name Colgante ILO leds 28W 3000K
Measurem.
Code TC-0359-BLA
Name Colgante ILO leds 28W 3000K

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	385.41 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

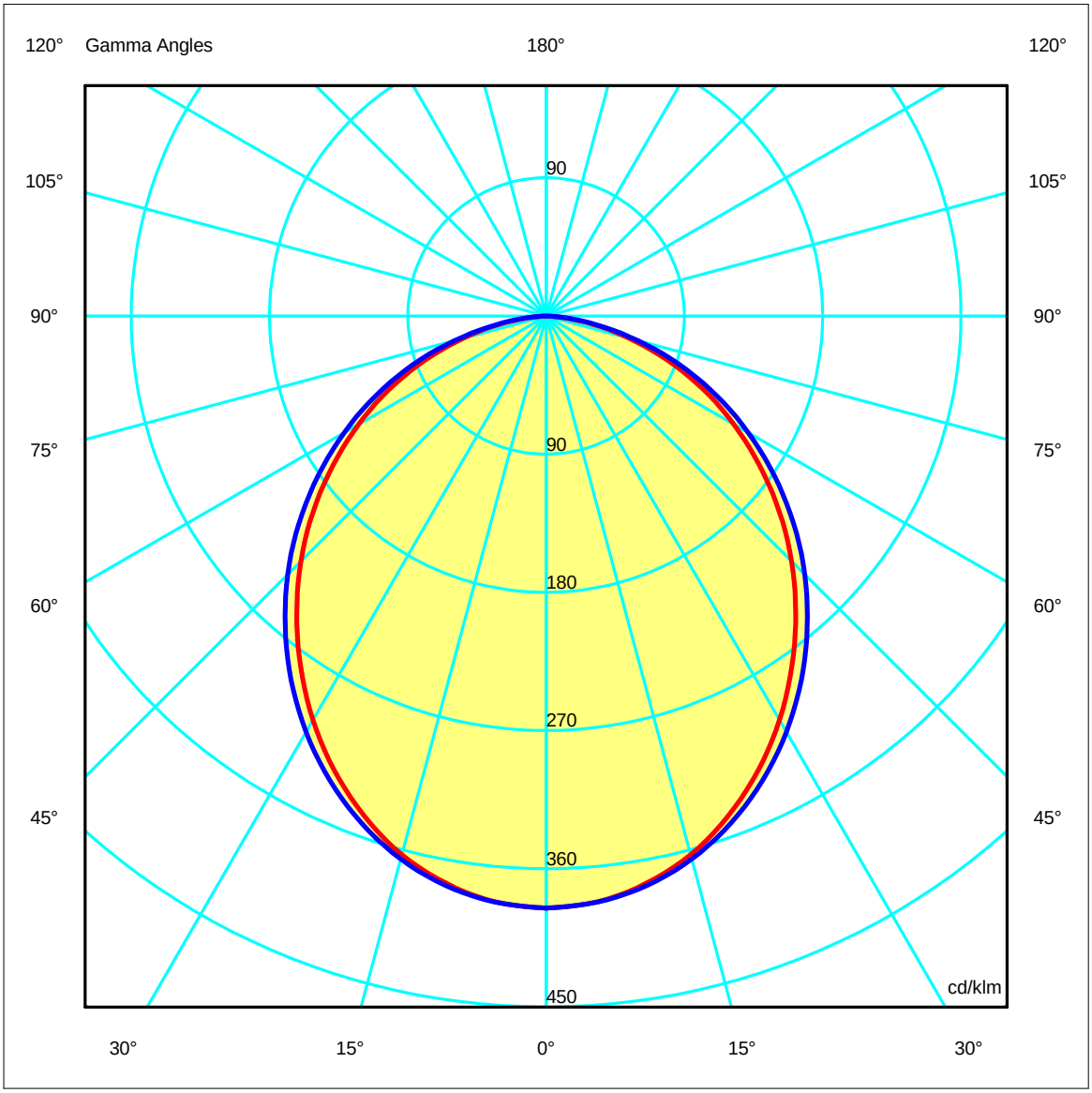
1180mm x 42mm



C Halfplanes

180.0 0.0

270.0 90.0



Luminaire
Code TC-0450-GRI
Name Colgante ILO leds 28W 3000K
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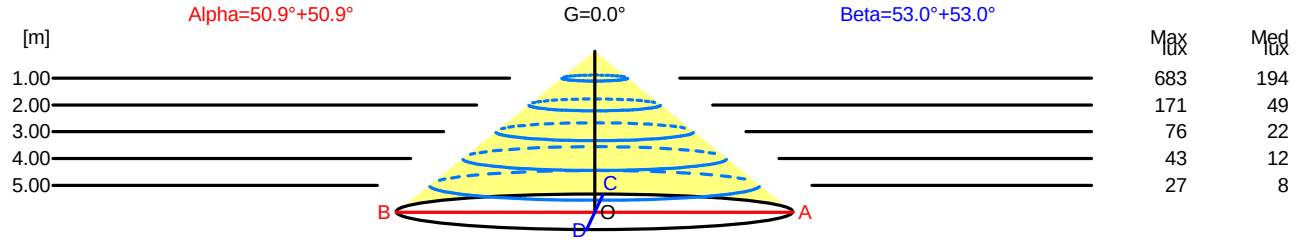
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Lamps Flux	1772.76 lm	Maximum value	385.41 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

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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Measurem.
Code TC-0359-BLA
Name Colgante ILO leds 28W 3000K

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Lamps Flux	1772.76 lm	Maximum value	385.41 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

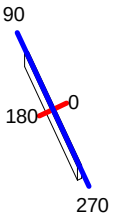
UGR
S = 0.250

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-0450-GRI
Name Colgante ILO leds 28W 3000K
Measurem.
Code TC-0359-BLA
Name Colgante ILO leds 28W 3000K

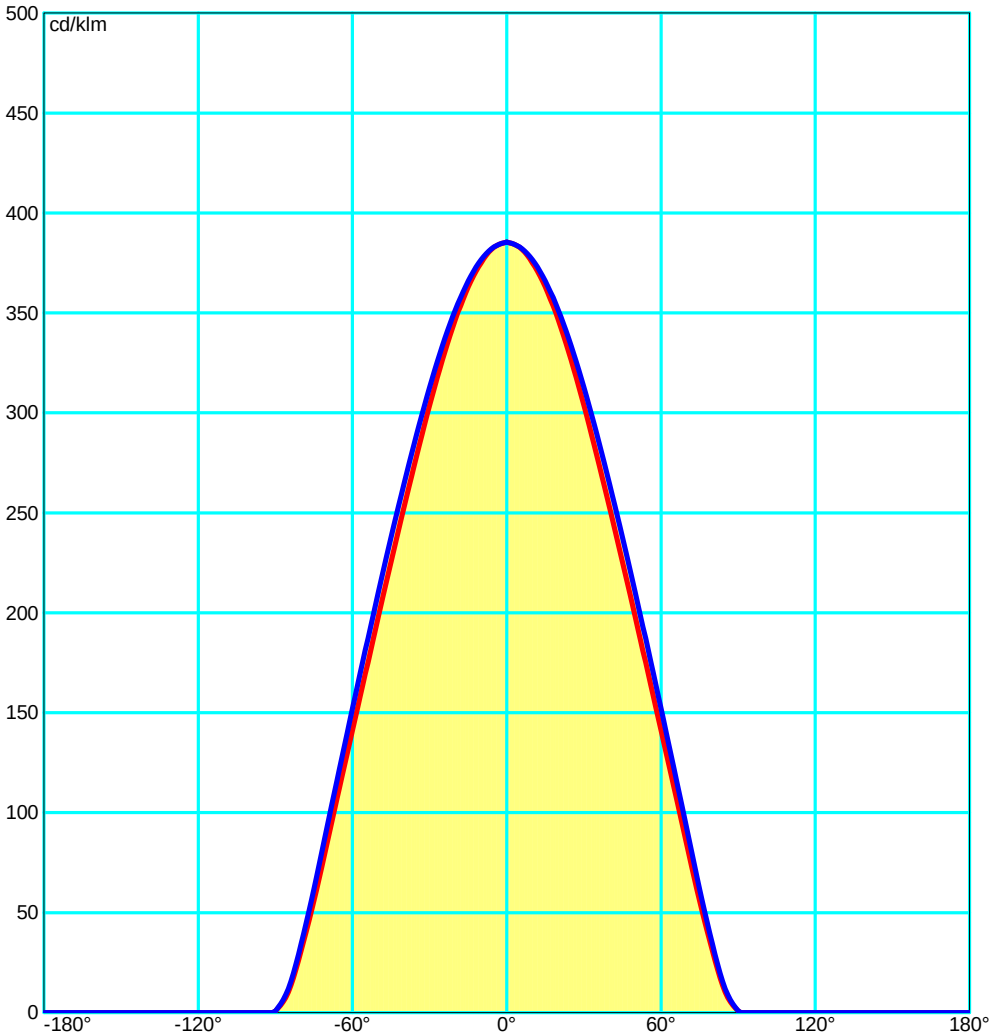
Luminaire Flux	1772.76 lm	Luminaire Power	28.40 W	Efficacy	62.42 lm/W	Efficiency	100.00%
Lamps Flux	1772.76 lm	Maximum value	385.41 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

1180mm x 42mm



C Halfplanes

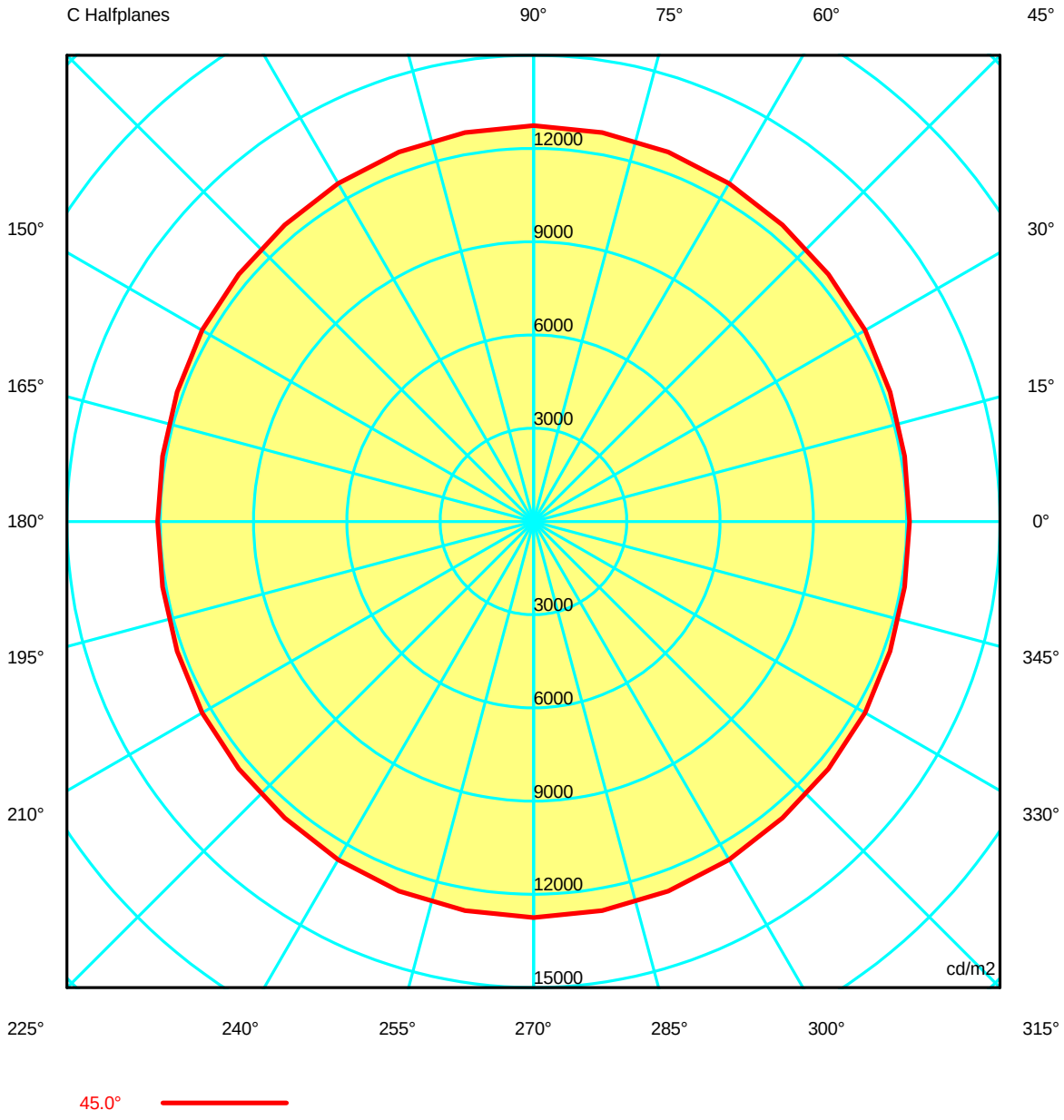
180.0 0.0
270.0 90.0



Luminaire
Code TC-0450-GRI
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Measurem.
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Lamps Flux	1772.76 lm	Maximum value	385.41 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Luminance



Luminaire
Code TC-0450-GRI
Name Colgante ILO leds 28W 3000K
Measurem.
Code TC-0359-BLA
Name Colgante ILO leds 28W 3000K

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	385.41 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	14599.29	14599.29	14599.29	14599.29	14599.29	14599.29	14599.29	14599.29	14599.29	14599.29	14599.29	14599.29	14599.29
G 5.0	14557.35	14556.82	14555.56	14554.48	14557.47	14562.67	14568.08	14572.12	14570.11	14562.21	14570.11	14572.12	14568.08
G 10.0	14426.14	14430.38	14435.46	14442.43	14452.06	14463.55	14474.51	14481.98	14484.51	14485.35	14484.51	14481.98	14474.51
G 15.0	14238.63	14236.22	14244.51	14265.16	14290.33	14310.48	14324.77	14338.75	14347.88	14351.37	14347.88	14338.75	14324.77
G 20.0	13965.22	13969.61	13985.40	14013.39	14045.24	14078.15	14117.48	14164.83	14182.00	14162.83	14182.00	14164.83	14117.48
G 25.0	13641.47	13646.71	13677.61	13728.74	13772.80	13817.06	13866.48	13912.11	13930.95	13937.56	13930.95	13912.11	13866.48
G 30.0	13283.68	13302.01	13330.82	13376.87	13440.33	13510.02	13581.90	13652.68	13684.53	13674.76	13684.53	13652.68	13581.90
G 35.0	12887.35	12920.02	12962.03	13028.82	13127.29	13208.10	13261.97	13320.43	13362.91	13383.26	13362.91	13320.43	13261.97
G 40.0	12492.72	12525.38	12567.53	12636.18	12740.35	12830.14	12914.06	13036.31	13096.18	13068.13	13096.18	13036.31	12914.06
G 45.0	12088.32	12108.85	12193.47	12310.97	12375.09	12452.76	12564.84	12656.54	12713.05	12744.74	12713.05	12656.54	12564.84
G 50.0	11669.58	11686.36	11730.22	11832.39	11942.83	12053.41	12178.13	12321.00	12377.52	12387.75	12377.52	12321.00	12178.13
G 55.0	11186.37	11212.78	11305.86	11452.65	11577.62	11670.93	11756.59	11858.03	11932.21	11968.08	11932.21	11858.03	11756.59
G 60.0	10681.02	10706.35	10767.36	10879.33	11024.97	11142.64	11267.96	11475.43	11571.30	11504.65	11571.30	11475.43	11267.96
G 65.0	10101.96	10122.33	10205.31	10403.57	10563.21	10644.18	10701.79	10819.55	10911.41	10942.58	10911.41	10819.55	10701.79
G 70.0	9309.26	9337.88	9393.91	9501.25	9658.19	9781.21	9920.16	10181.85	10298.35	10195.89	10298.35	10181.85	9920.16
G 75.0	8186.04	8248.47	8413.10	8641.72	8790.63	8851.98	8904.98	9027.16	9089.10	9049.78	9089.10	9027.16	8904.98
G 80.0	6767.80	6831.47	6892.52	6983.12	7133.63	7238.13	7360.34	7638.71	7711.96	7484.18	7711.96	7638.71	7360.34
G 85.0	4425.57	4640.10	4863.85	5093.34	5276.63	5232.25	5061.83	5072.55	5138.91	5162.81	5138.91	5072.55	5061.83
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-0450-GRI
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Measurem.
Code TC-0359-BLA
Name Colgante ILO leds 28W 3000K

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Lamps Flux	1772.76 lm	Maximum value	385.41 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	14599.29	14599.29	14599.29	14599.29	14599.29	14599.29	14599.29	14599.29	14599.29	14599.29	14599.29	14599.29	14599.29
G 5.0	14562.67	14557.47	14554.48	14555.56	14556.82	14557.35	14556.82	14555.56	14554.48	14557.47	14562.67	14568.08	14572.12
G 10.0	14463.55	14452.06	14442.43	14435.46	14430.38	14426.14	14430.38	14435.46	14442.43	14452.06	14463.55	14474.51	14481.98
G 15.0	14310.48	14290.33	14265.16	14244.51	14236.22	14238.63	14236.22	14244.51	14265.16	14290.33	14310.48	14324.77	14338.75
G 20.0	14078.15	14045.24	14013.39	13985.40	13969.61	13965.22	13969.61	13985.40	14013.39	14045.24	14078.15	14117.48	14164.83
G 25.0	13817.06	13772.80	13728.74	13677.61	13646.71	13641.47	13646.71	13677.61	13728.74	13772.80	13817.06	13866.48	13912.11
G 30.0	13510.02	13440.33	13376.87	13330.82	13302.01	13283.68	13302.01	13330.82	13376.87	13440.33	13510.02	13581.90	13652.68
G 35.0	13208.10	13127.29	13028.82	12962.03	12920.02	12887.35	12920.02	12962.03	13028.82	13127.29	13208.10	13261.97	13320.43
G 40.0	12830.14	12740.35	12636.18	12567.53	12525.38	12492.72	12525.38	12567.53	12636.18	12740.35	12830.14	12914.06	13036.31
G 45.0	12452.76	12375.09	12310.97	12193.47	12108.85	12088.32	12108.85	12193.47	12310.97	12375.09	12452.76	12564.84	12656.54
G 50.0	12053.41	11942.83	11832.39	11730.22	11686.36	11669.58	11686.36	11730.22	11832.39	11942.83	12053.41	12178.13	12321.00
G 55.0	11670.93	11577.62	11452.65	11305.86	11212.78	11186.37	11212.78	11305.86	11452.65	11577.62	11670.93	11756.59	11858.03
G 60.0	11142.64	11024.97	10879.33	10767.36	10706.35	10681.02	10706.35	10767.36	10879.33	11024.97	11142.64	11267.96	11475.43
G 65.0	10644.18	10563.21	10403.57	10205.31	10122.33	10101.96	10122.33	10205.31	10403.57	10563.21	10644.18	10701.79	10819.55
G 70.0	9781.21	9658.19	9501.25	9393.91	9337.88	9309.26	9337.88	9393.91	9501.25	9658.19	9781.21	9920.16	10181.85
G 75.0	8851.98	8790.63	8641.72	8413.10	8248.47	8186.04	8248.47	8413.10	8641.72	8790.63	8851.98	8904.98	9027.16
G 80.0	7238.13	7133.63	6983.12	6892.52	6831.47	6767.80	6831.47	6892.52	6983.12	7133.63	7238.13	7360.34	7638.71
G 85.0	5232.25	5276.63	5093.34	4863.85	4640.10	4425.57	4640.10	4863.85	5093.34	5276.63	5232.25	5061.83	5072.55
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-0450-GRI
Name Colgante ILO leds 28W 3000K
Measurem.
Code TC-0359-BLA
Name Colgante ILO leds 28W 3000K

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	385.41 cd/klm	Position	C=0.00 G=0.00	CG Double Symmetrical

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

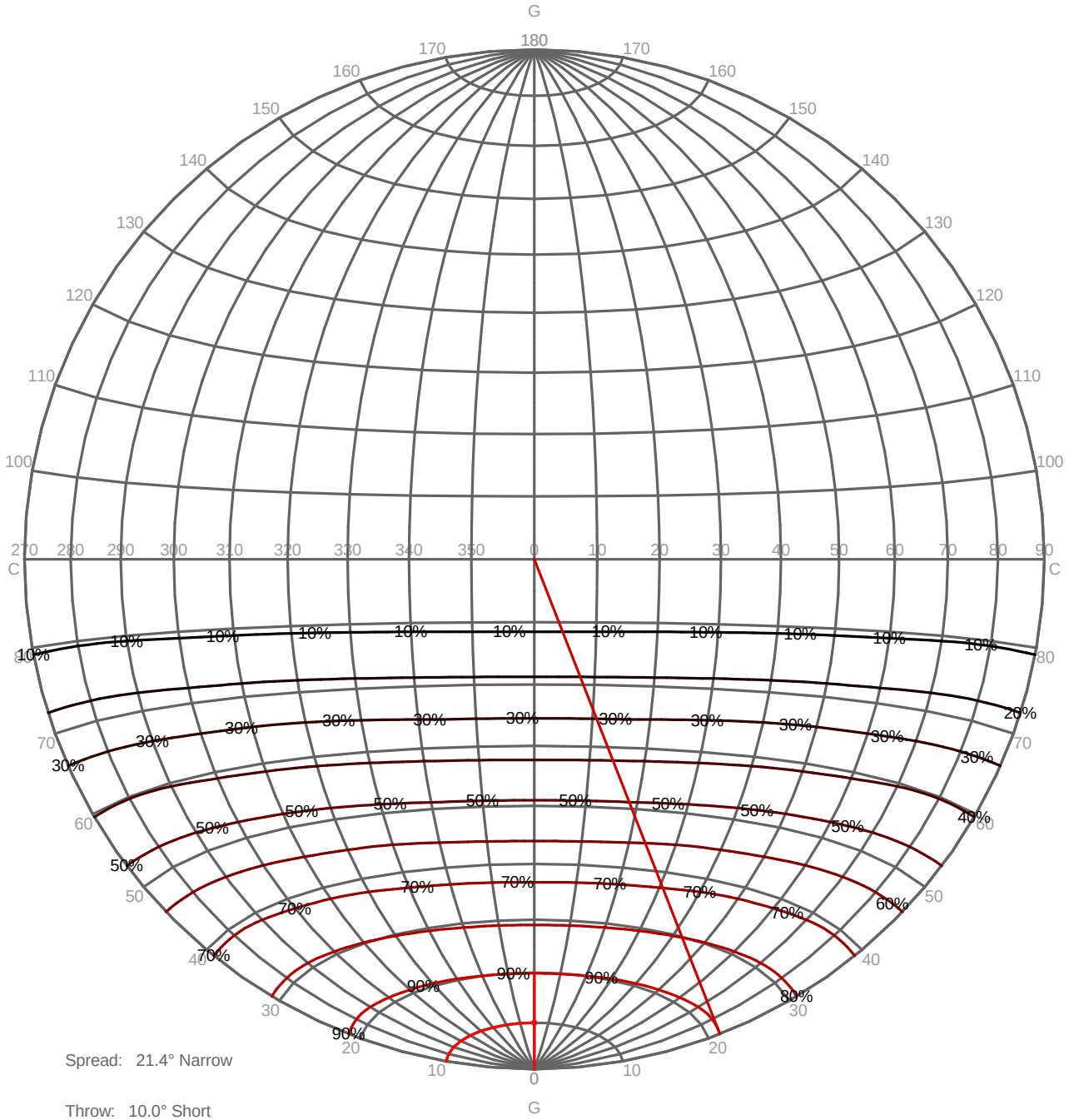
	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	14599.29	14599.29	14599.29	14599.29	14599.29	14599.29	14599.29	14599.29	14599.29	14599.29
G 5.0	14570.11	14562.21	14570.11	14572.12	14568.08	14562.67	14557.47	14554.48	14555.56	14556.82
G 10.0	14484.51	14485.35	14484.51	14481.98	14474.51	14463.55	14452.06	14442.43	14435.46	14430.38
G 15.0	14347.88	14351.37	14347.88	14338.75	14324.77	14310.48	14290.33	14265.16	14244.51	14236.22
G 20.0	14182.00	14162.83	14182.00	14164.83	14117.48	14078.15	14045.24	14013.39	13985.40	13969.61
G 25.0	13930.95	13937.56	13930.95	13912.11	13866.48	13817.06	13772.80	13728.74	13677.61	13646.71
G 30.0	13684.53	13674.76	13684.53	13652.68	13581.90	13510.02	13440.33	13376.87	13330.82	13302.01
G 35.0	13362.91	13383.26	13362.91	13320.43	13261.97	13208.10	13127.29	13028.82	12962.03	12920.02
G 40.0	13096.18	13068.13	13096.18	13036.31	12914.06	12830.14	12740.35	12636.18	12567.53	12525.38
G 45.0	12713.05	12744.74	12713.05	12656.54	12564.84	12452.76	12375.09	12310.97	12193.47	12108.85
G 50.0	12377.52	12387.75	12377.52	12321.00	12178.13	12053.41	11942.83	11832.39	11730.22	11686.36
G 55.0	11932.21	11968.08	11932.21	11858.03	11756.59	11670.93	11577.62	11452.65	11305.86	11212.78
G 60.0	11571.30	11504.65	11571.30	11475.43	11267.96	11142.64	11024.97	10879.33	10767.36	10706.35
G 65.0	10911.41	10942.58	10911.41	10819.55	10701.79	10644.18	10563.21	10403.57	10205.31	10122.33
G 70.0	10298.35	10195.89	10298.35	10181.85	9920.16	9781.21	9658.19	9501.25	9393.91	9337.88
G 75.0	9089.10	9049.78	9089.10	9027.16	8904.98	8851.98	8790.63	8641.72	8413.10	8248.47
G 80.0	7711.96	7484.18	7711.96	7638.71	7360.34	7238.13	7133.63	6983.12	6892.52	6831.47
G 85.0	5138.91	5162.81	5138.91	5072.55	5061.83	5232.25	5276.63	5093.34	4863.85	4640.10
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-0450-GRI
Name Colgante ILO leds 28W 3000K
Measurem.
Code TC-0359-BLA
Name Colgante ILO leds 28W 3000K

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	385.41 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

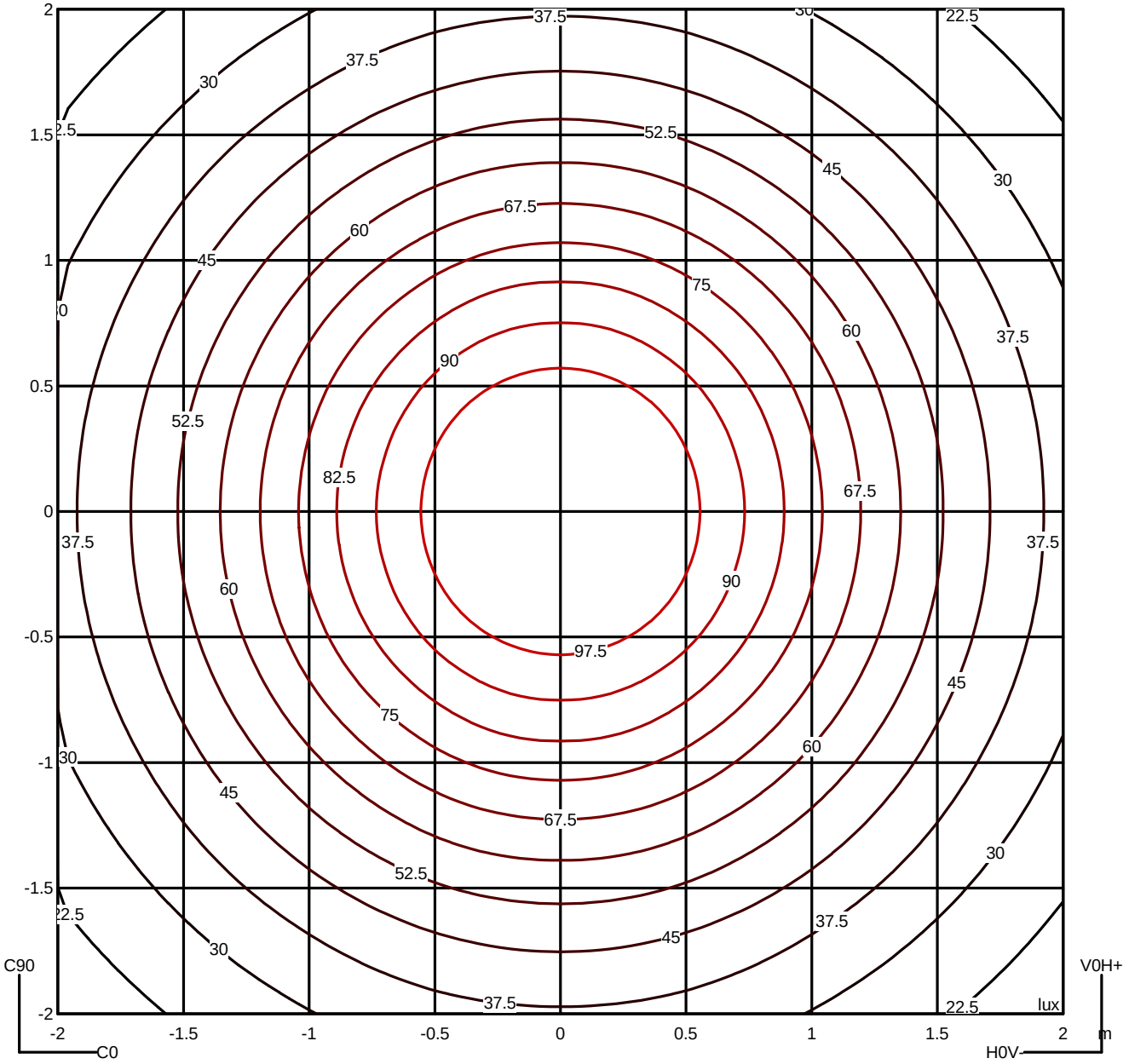
Throw: 10.0° Short

Luminaire
Code TC-0450-GRI
Name Colgante ILO leds 28W 3000K
Measurem.
Code TC-0359-BLA
Name Colgante ILO leds 28W 3000K

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	385.41 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-0450-GRI
Name Colgante ILO leds 28W 3000K
Measurem.
Code TC-0359-BLA
Name Colgante ILO leds 28W 3000K

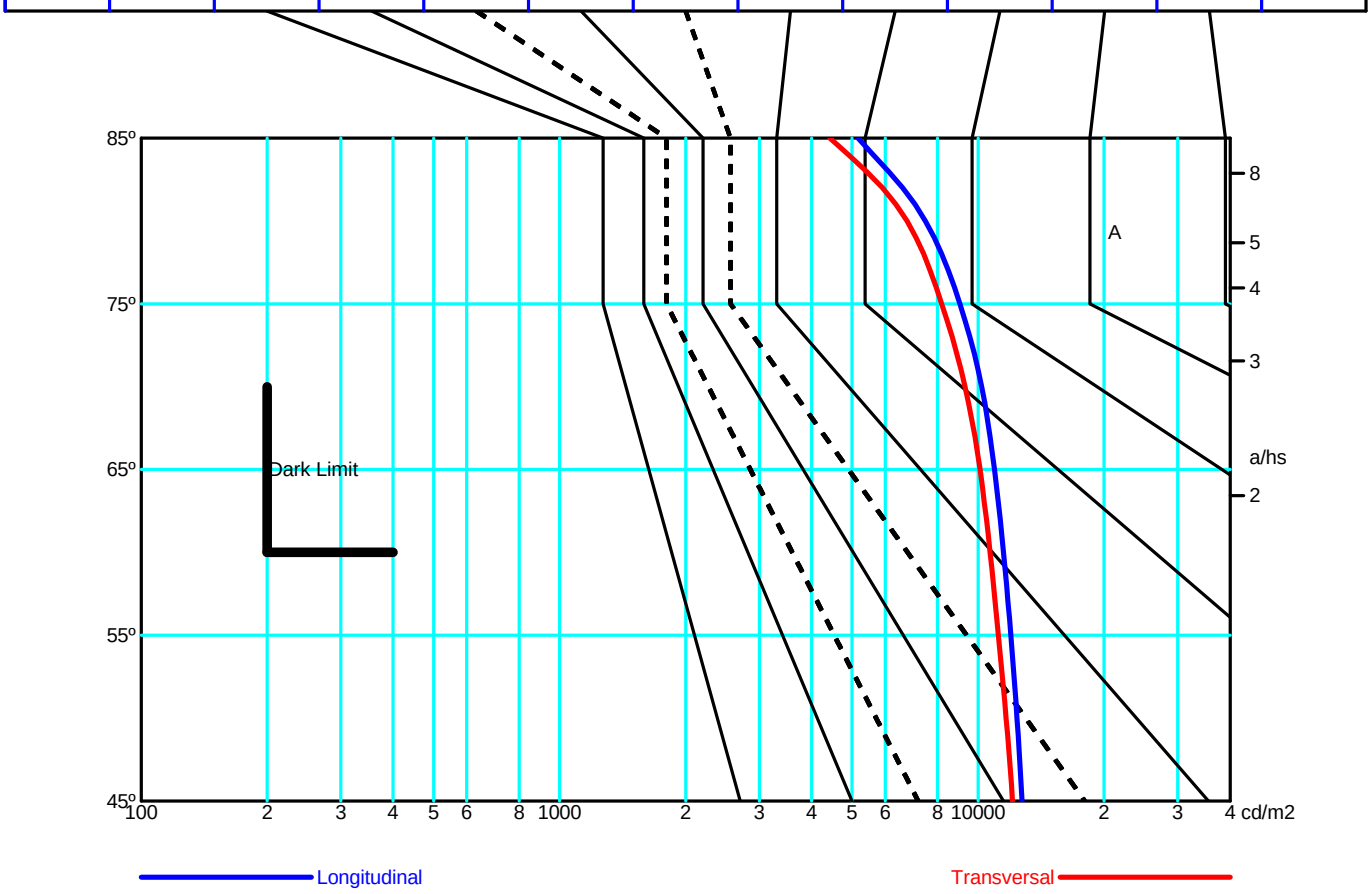
Luminaire Flux	1772.76 lm	Luminaire Power	28.40 W	Efficacy	62.42 lm/W	Efficiency	100.00%
Lamps Flux	1772.76 lm	Maximum value	385.41 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

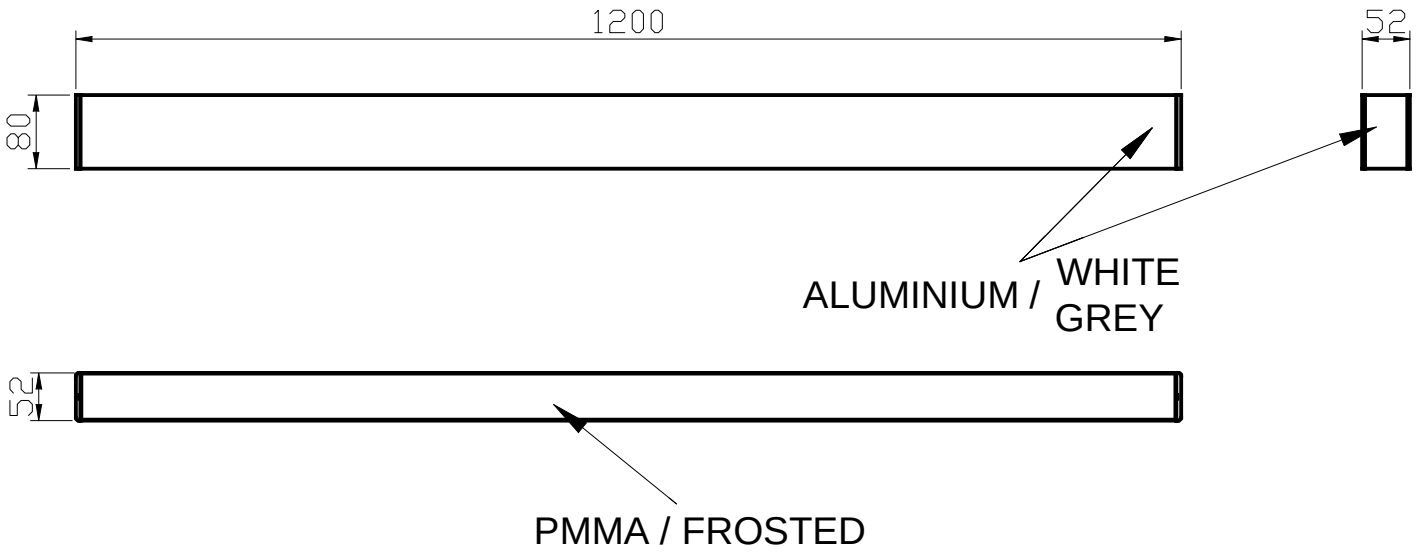
Average Luminance [cd/m²]

	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	12088	11670	11186	10681	10102	9309	8186	6768	4426	---
90.0°	12745	12388	11968	11505	10943	10196	9050	7484	5163	---

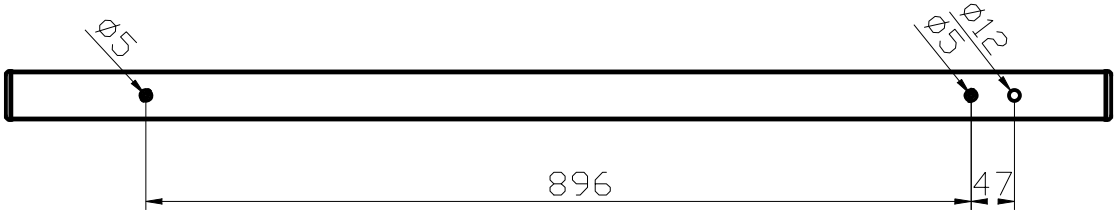
Flush mounted or longitudinal view

		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





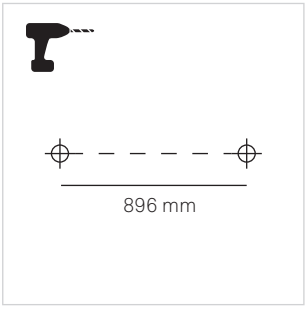
Installation template



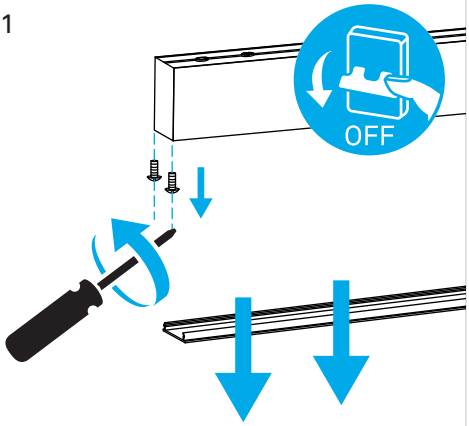
Ilo

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

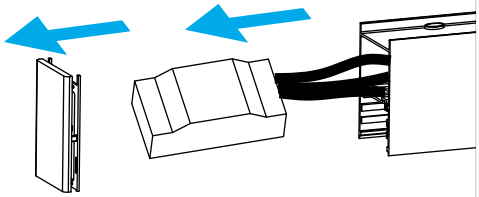




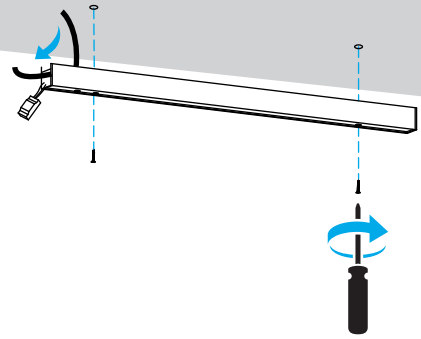
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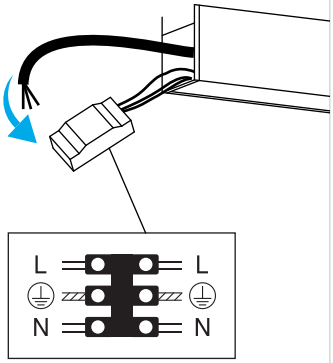
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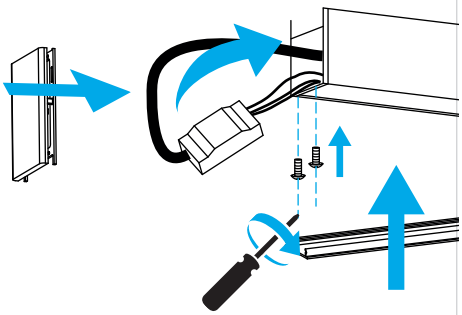
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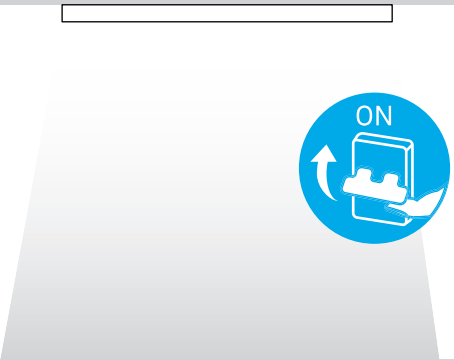
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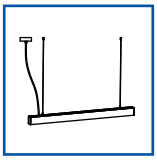
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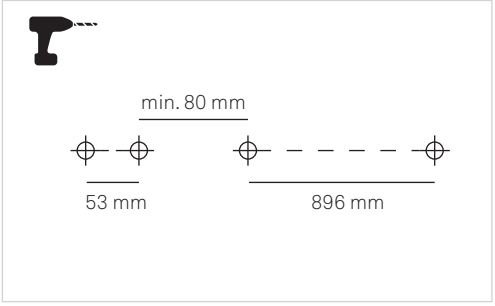


7-4-2021

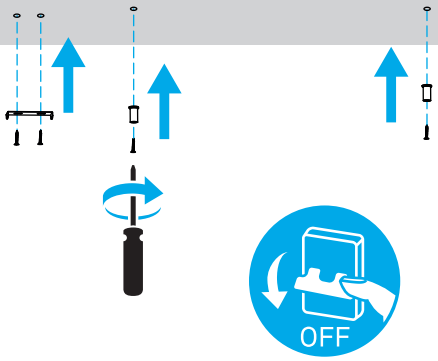


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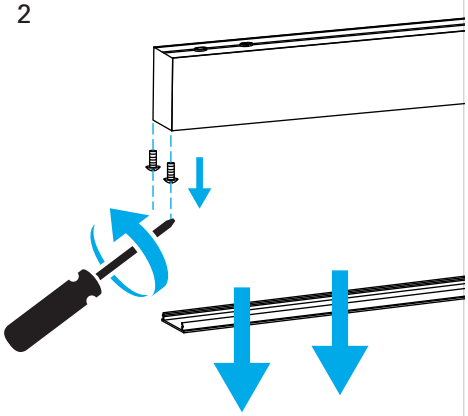
TC-0452
TC-0453



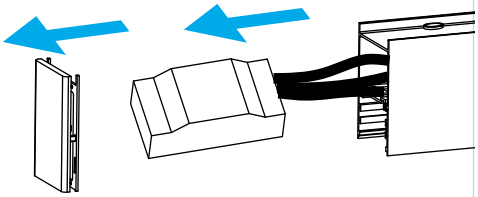
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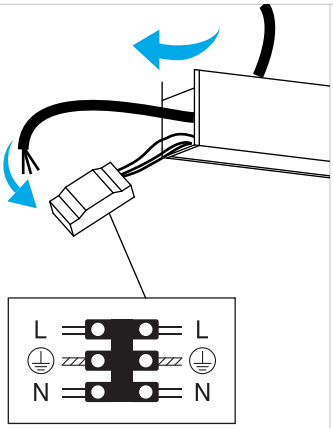
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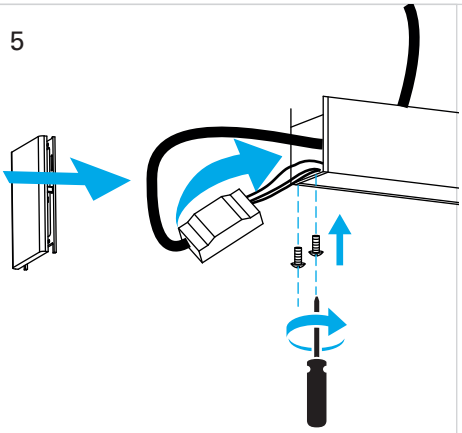
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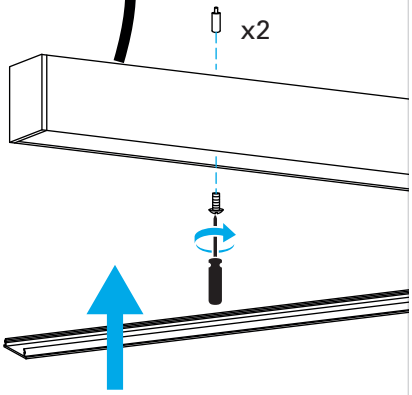
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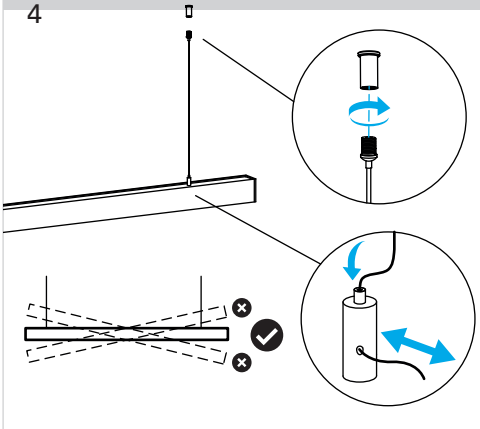
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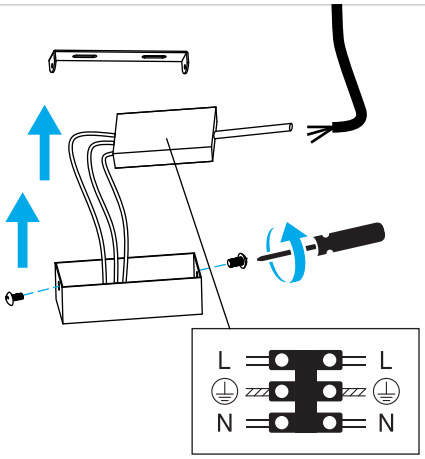
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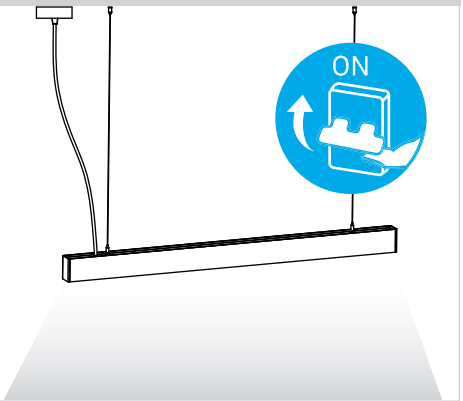
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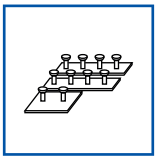


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6





NOT INCLUDED

TC-0454

