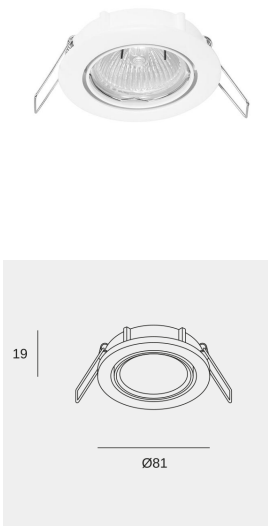




Sound Plus Adjustable TC-0135-BLA

Recessed ceiling lights Sound Plus Adjustable GU10 8W White IP23

TECHNICAL FEATURES



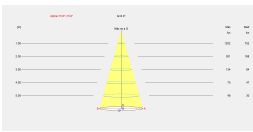
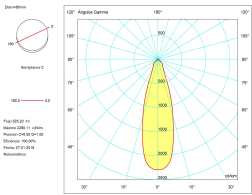
Luminaire total power : 8W
Structure material : Aluminium
Structure finish : White
Max. size of light bulb : 55/50 mm
Recommended light bulb : GU10

Voltage / frequency : 100-240V ~ 50/60Hz
Warranty : 5 Years
Easily recyclable luminaire



LUMINOTECHNIC FEATURES

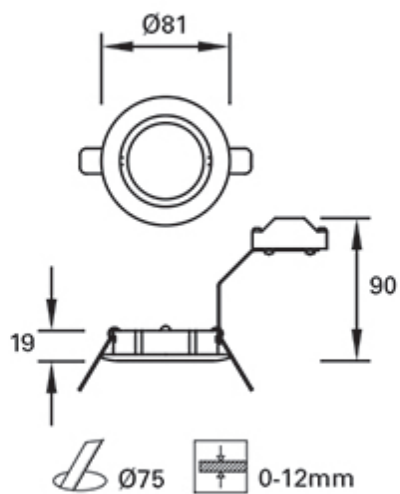
Lampholder	Quantity	Light source power (W)	Correlated Colour Temperature (CCT)
GU10	1	Max. power 8W	-



LOGISTICS

Net weight (kg): 0.12
Packaged weight (kg): 0.15
Packaging: 90mm x 65mm x 90mm





Luminaire

Code TC-0135-BLA
Name GU10 STANDAR SOUND PLUS

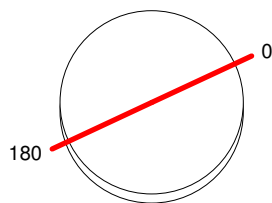
Measurement

Code TC-0135-BLA
Name GU10 STANDAR SOUND PLUS

Luminaire Flux	525.20 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Lamps Flux	525.20 lm	Maximum value	1202.76 cd	Position	C=0.00 G=1.00	CG	Rotosymmetrical
Round Luminaire Round Luminous Area		Diam. Diam.	80 mm 40 mm	Height Height	19 mm 1 mm		
Horizontal Luminous Area		0.001257 m2		Emitting area on Plane 180°		0.000040 m2	
Emitting area on Plane 0°		0.000040 m2		Emitting area on Plane 270°		0.000040 m2	
Emitting area on Plane 90°		0.000040 m2		Glare area at 76°		0.000343 m2	
Coordinate system		CG		Symmetry Type		Rotosymmetrical	
Date		27-01-2016		Maximum Gamma Angle		180	
Measurement Distance		0.00		Measurement Flux		525.20 lm	
Operator				Source Voltage [V]			
Temperature		25.00 °C		Source current [A]			
Humidity		60.00 %		Photocell			
Notes							

Line	Code	Luminaire Lamps	Flux [lm]	Pow. [W]	Q.ty
	HALOPAR 16 50W	Name HALOPAR 16 50W	525.20	50.00	1
C.I.E.	82 94 97 100 100	D DIN 5040	A60		
F UTE	1.00 B	B NBN	BZ 1		

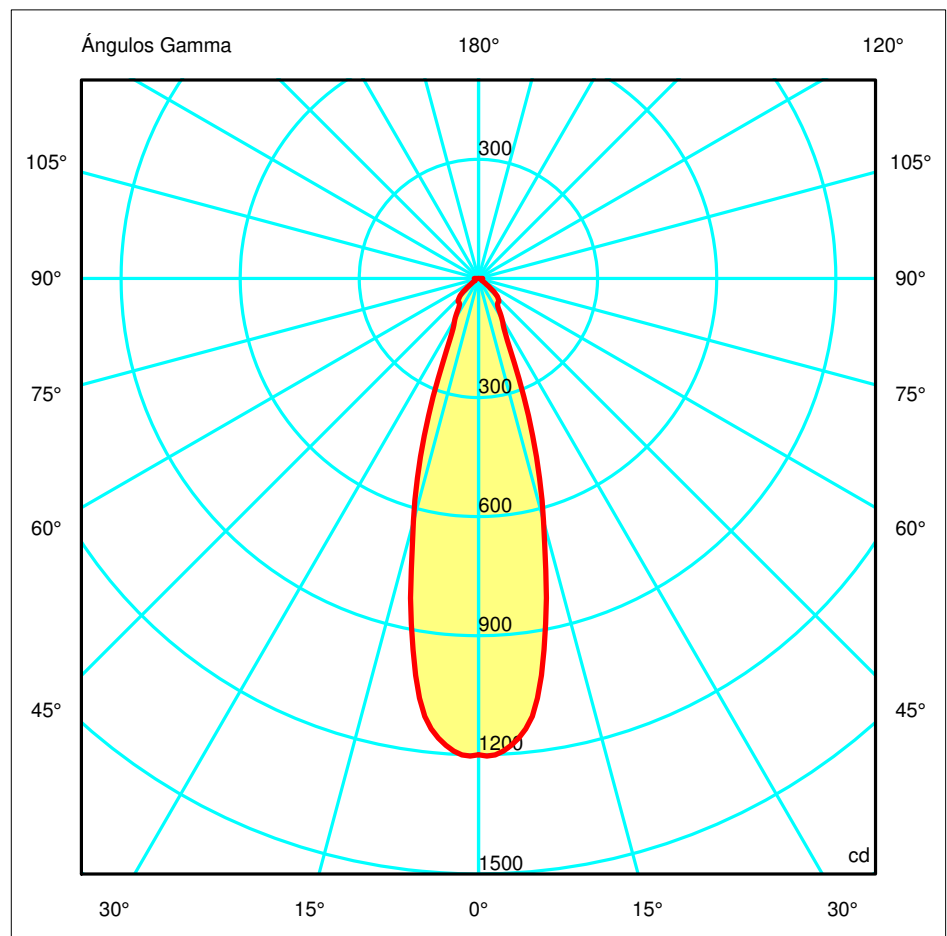
Diam=80mm



Semiplanos C

180.0 — 0.0

ULOR 0.11 %
DLOR 99.89 %
RN 0.11 %



Luminaire

Code TC-0135-BLA
Name GU10 STANDAR SOUND PLUS

Measurem.

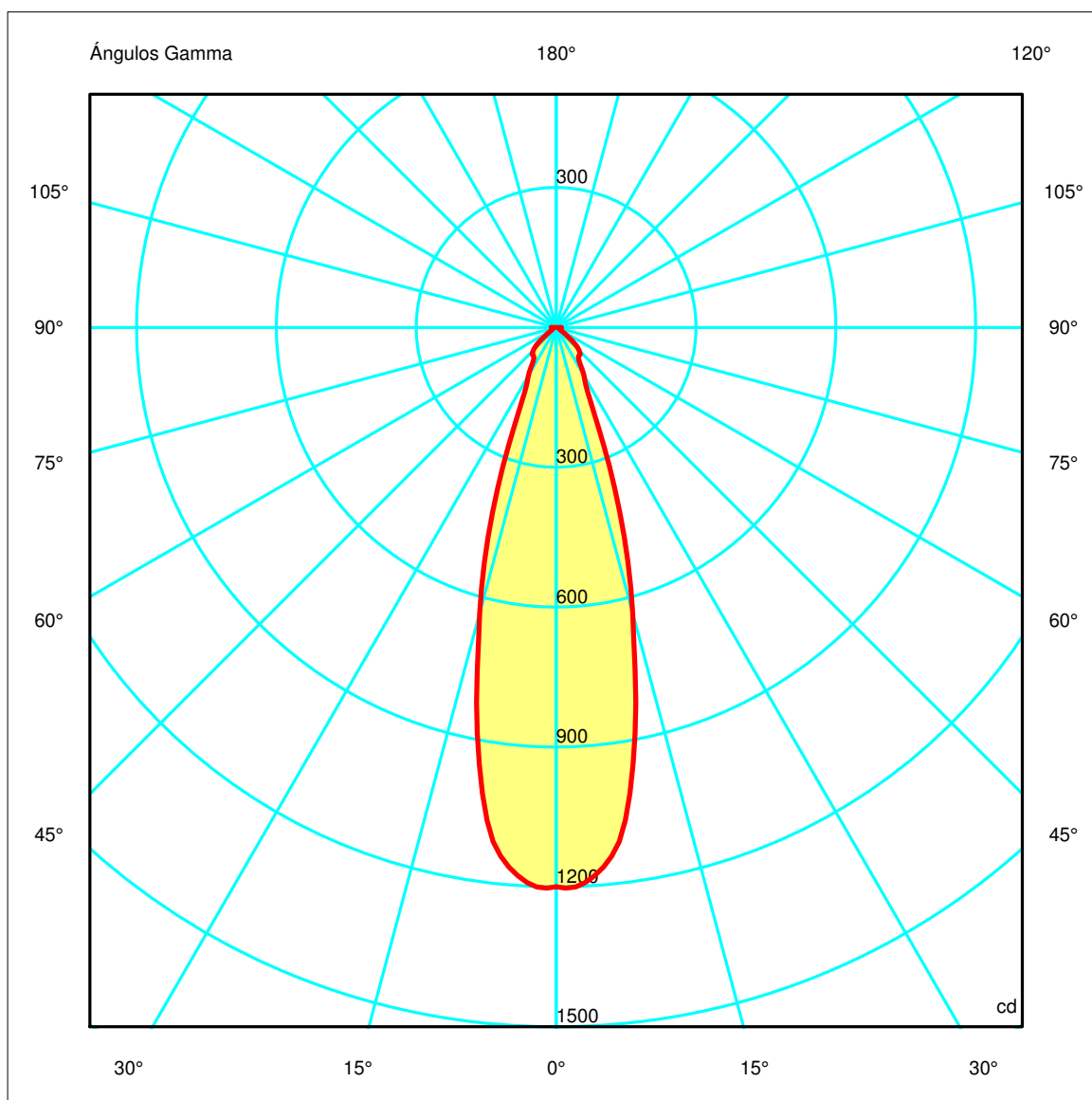
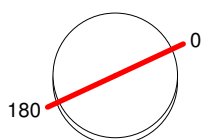
Code TC-0135-BLA
Name GU10 STANDAR SOUND PLUS

Luminaire Flux	525.20 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Lamps Flux	525.20 lm	Maximum value	1202.76 cd	Position	C=0.00 G=1.00	CG	Rotosymmetrical

Diam=80mm

Semiplanos C

180.0  0.0



Luminaire

Code TC-0135-BLA
Name GU10 STANDAR SOUND PLUS

Measurum.

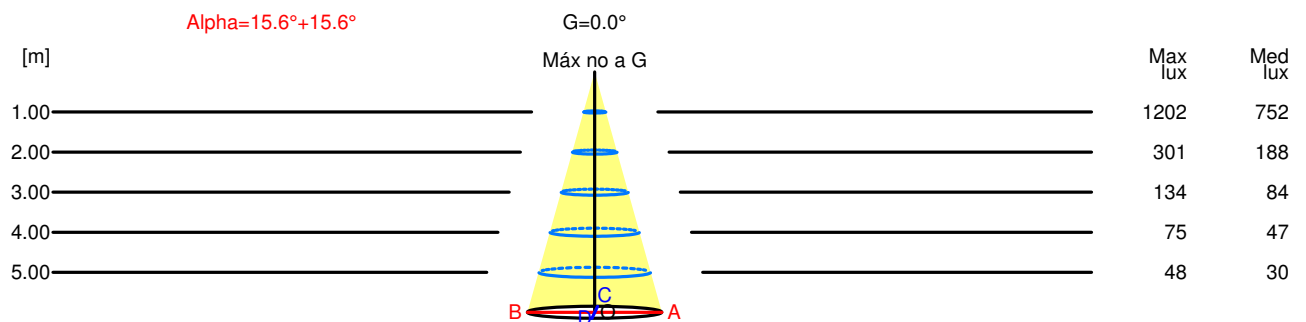
Code TC-0135-BLA
Name GU10 STANDAR SOUND PLUS

Luminaire Flux	525.20 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Lamps Flux	525.20 lm	Maximum value	1202.76 cd	Position	C=0.00 G=1.00	CG	Rotosymmetrical

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	0.28	0.56	0.84	1.12	1.40	OC	0.28	0.56	0.84	1.12	1.40
OB	0.28	0.56	0.84	1.12	1.40	OD	0.28	0.56	0.84	1.12	1.40

	Luminous Intensities [cd]									
	0	5	15	25	35	45	55	65	75	85
OA	1199.67	1161.97	633.51	172.30	84.58	68.93	20.11	9.34	9.76	9.40
OB	1199.67	1161.97	633.51	172.30	84.58	68.93	20.11	9.34	9.76	9.40
OC	1199.67	1161.97	633.51	172.30	84.58	68.93	20.11	9.34	9.76	9.40
OD	1199.67	1161.97	633.51	172.30	84.58	68.93	20.11	9.34	9.76	9.40



H[m]	D[m]	Max lux	Med lux	Alpha=15.6°+15.6°	G=0.0 Máx no a G	
1.00	0.56	1202	752			
2.00	1.12	301	188			
3.00	1.68	134	84			
4.00	2.24	75	47			
5.00	2.80	48	30			

Luminaire

Code TC-0135-BLA
Name GU10 STANDAR SOUND PLUS

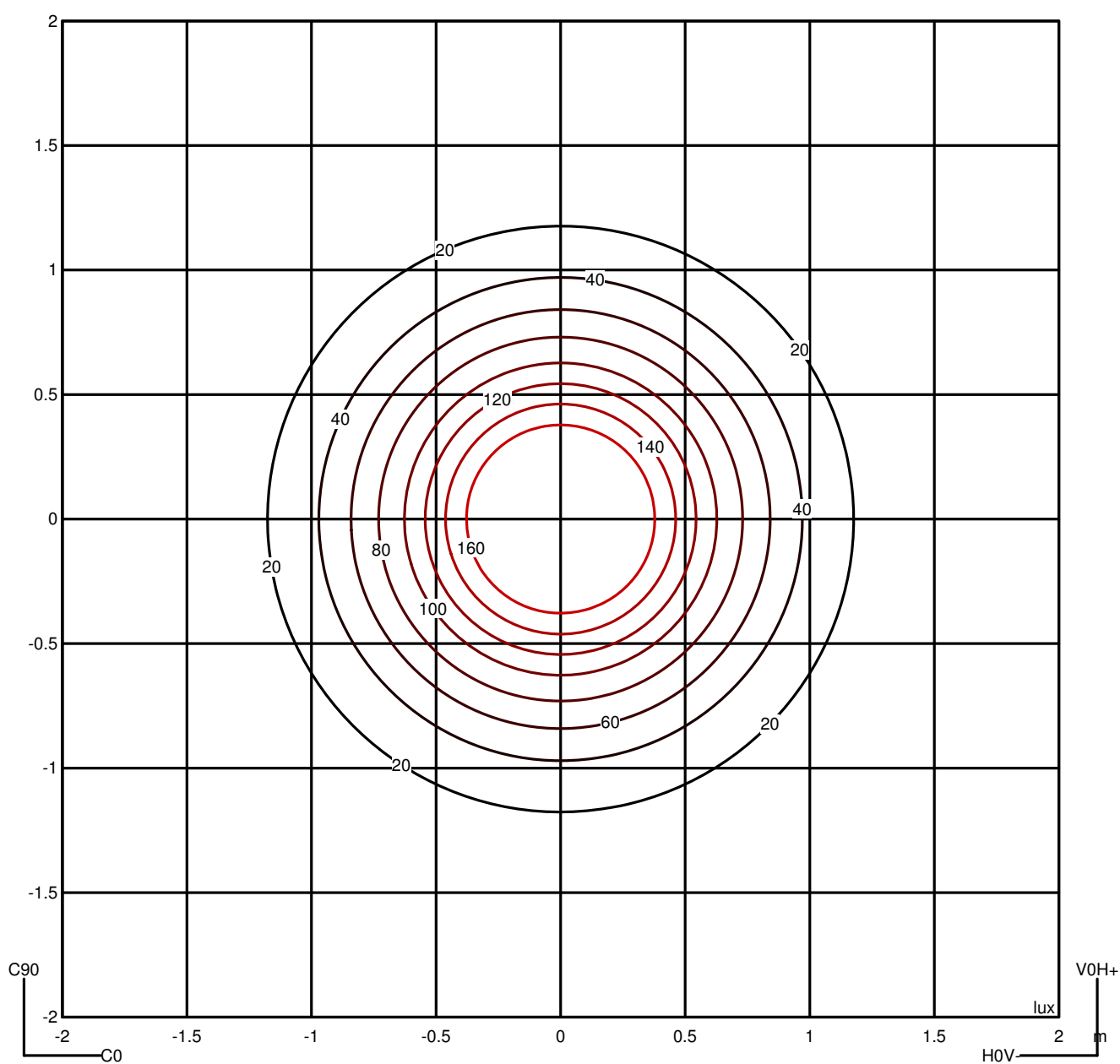
Measurement

Code TC-0135-BLA
Name GU10 STANDAR SOUND PLUS

Luminaire Flux	525.20 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Lamps Flux	525.20 lm	Maximum value	1202.76 cd	Position	C=0.00 G=1.00	CG	Rotosymmetrical

Isolux (Floor)

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



Luminaire

Code TC-0135-BLA
Name GU10 STANDAR SOUND PLUS

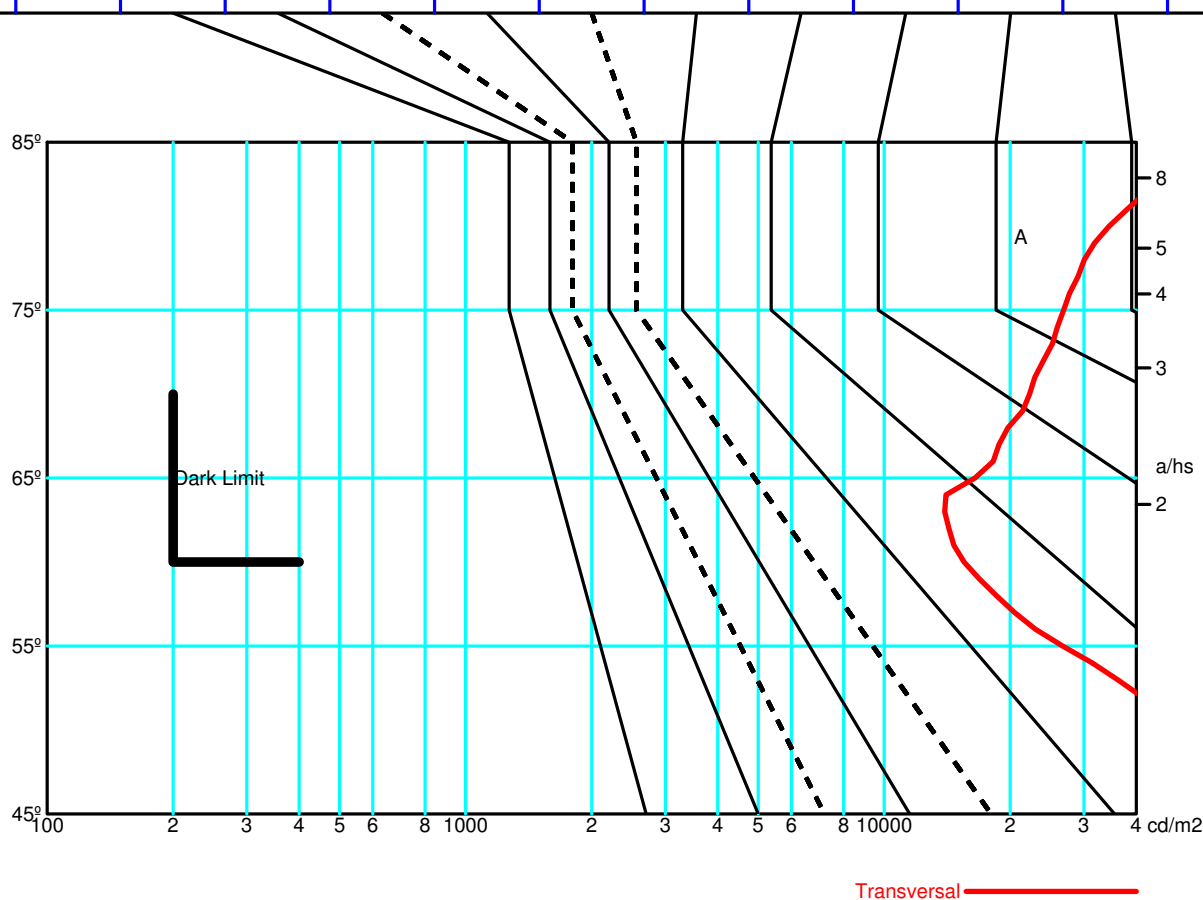
Measurem.

Code TC-0135-BLA
Name GU10 STANDAR SOUND PLUS

Luminaire Flux	525.20 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Lamps Flux	525.20 lm	Maximum value	1202.76 cd	Position	C=0.00 G=1.00	CG	Rotosymmetrical

Average Luminance [cd/m²]										
0.0°	45°	50°	55°	60°	65°	70°	75°	80°	85°	---
	75182	54040	26684	15521	16472	22241	26836	34442	62913	

Flujo montado o vista longitudinal												
		Iluminancia (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



Luminaire

Code TC-0135-BLA
Name GU10 STANDAR SOUND PLUS

Measurem.

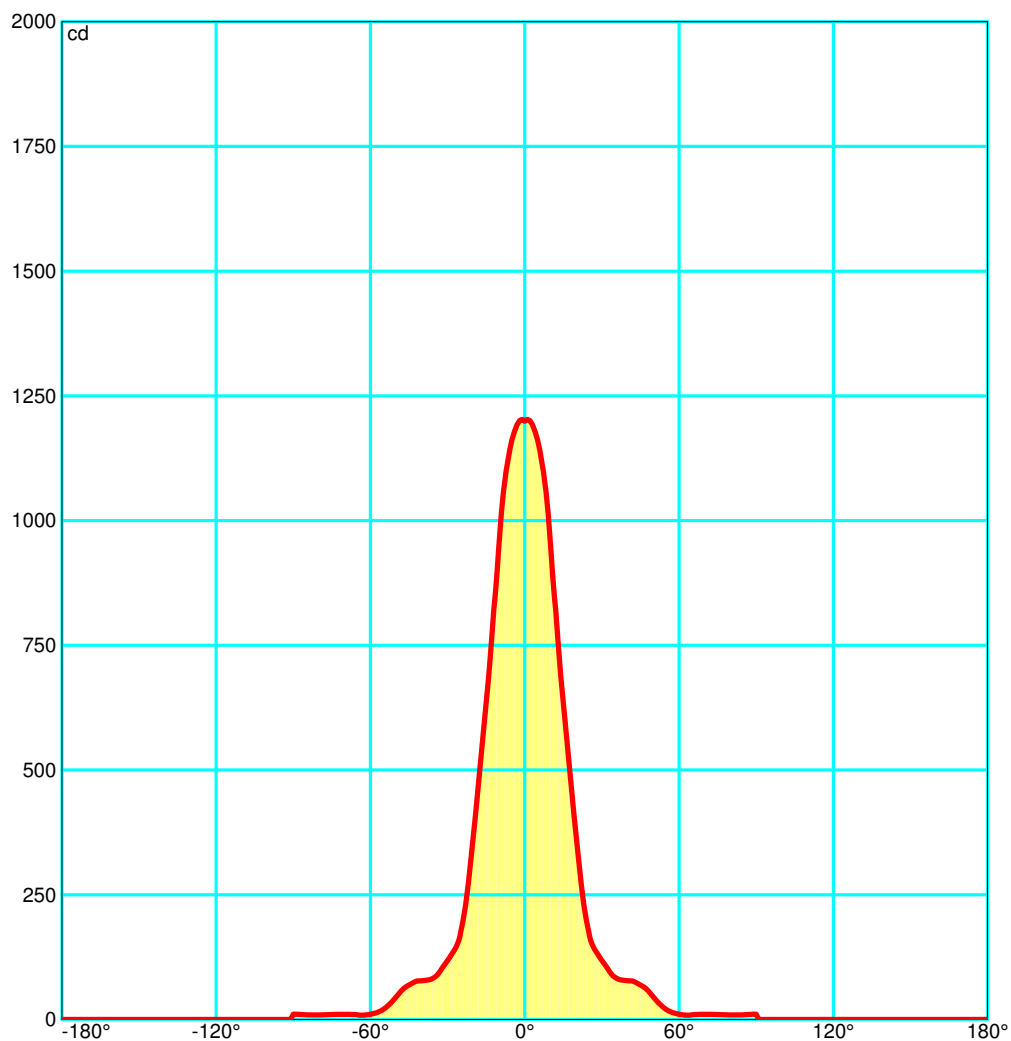
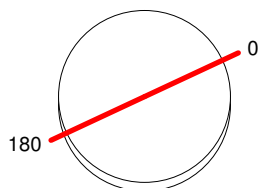
Code TC-0135-BLA
Name GU10 STANDAR SOUND PLUS

Luminaire Flux	525.20 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Lamps Flux	525.20 lm	Maximum value	1202.76 cd	Position	C=0.00 G=1.00	CG	Rotosymmetrical

Diam=80mm

Semiplanos C

180.0 ————— 0.0



Luminaire

Code TC-0135-BLA
Name GU10 STANDAR SOUND PLUS

Measurement

Code TC-0135-BLA
Name GU10 STANDAR SOUND PLUS

Luminaire Flux	525.20 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Lamps Flux	525.20 lm	Maximum value	1202.76 cd	Position	C=0.00 G=1.00	CG	Rotosymmetrical

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										
RoomDimensions	ViewedCrosswise					ViewedEndwise				
	x=2H	y=2H	x=2H	y=2H	x=2H	y=2H	x=2H	y=2H	x=2H	y=2H
x=2H y=2H	21.4	22.3	21.7	22.5	22.7	21.4	22.3	21.7	22.5	22.7
x=2H y=3H	22.0	22.8	22.3	23.0	23.3	22.0	22.8	22.3	23.0	23.3
x=2H y=4H	22.6	23.3	22.9	23.6	23.8	22.6	23.3	22.9	23.6	23.8
x=2H y=6H	23.4	24.1	23.7	24.4	24.6	23.4	24.1	23.7	24.4	24.6
x=2H y=8H	24.0	24.6	24.3	24.9	25.2	24.0	24.6	24.3	24.9	25.2
x=2H y=12H	24.7	25.4	25.1	25.7	26.0	24.7	25.4	25.1	25.7	26.0
x=4H y=2H	21.5	22.2	21.8	22.5	22.7	21.5	22.2	21.8	22.5	22.7
x=4H y=3H	22.4	23.0	22.7	23.3	23.6	22.4	23.0	22.7	23.3	23.6
x=4H y=4H	23.2	23.8	23.6	24.1	24.5	23.2	23.8	23.6	24.1	24.5
x=4H y=6H	24.3	24.8	24.8	25.2	25.6	24.3	24.8	24.8	25.2	25.6
x=4H y=8H	25.1	25.5	25.5	25.9	26.3	25.1	25.5	25.5	25.9	26.3
x=4H y=12H	26.1	26.5	26.6	26.9	27.3	26.1	26.5	26.6	26.9	27.3
x=8H y=4H	23.7	24.1	24.1	24.5	24.9	23.7	24.1	24.1	24.5	24.9
x=8H y=6H	25.1	25.4	25.5	25.8	26.3	25.1	25.4	25.5	25.8	26.3
x=8H y=8H	26.1	26.4	26.5	26.8	27.3	26.1	26.4	26.5	26.8	27.3
x=8H y=12H	27.3	27.6	27.8	28.0	28.5	27.3	27.6	27.8	28.0	28.5
x=12H y=4H	23.8	24.1	24.2	24.5	25.0	23.8	24.1	24.2	24.5	25.0
x=12H y=6H	25.3	25.6	25.8	26.0	26.5	25.3	25.6	25.8	26.0	26.5
x=12H y=8H	26.4	26.7	26.9	27.1	27.6	26.4	26.7	26.9	27.1	27.6

Luminaire

Code TC-0135-BLA
Name GU10 STANDAR SOUND PLUS

Measurment

Code TC-0135-BLA
Name GU10 STANDAR SOUND PLUS

Luminaire Flux	525.20 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Lamps Flux	525.20 lm	Maximum value	1202.76 cd	Position	C=0.00 G=1.00	CG	Rotosymmetrical

Flujo Total=525.20 Flujo Luminaria=525.20

RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.59	0.65	0.71	0.75	0.79	0.84	0.88	0.90	0.93	0.94	0.97	0.99
RC	-	-	-	-	1	1	1	1	1	1	-	-

Flujo Zonal por 1000 Lúmenes

Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	199	530	699	805	903	942	960	979	999	1000	1000	1000	1000	1000	1000	1000	1000	1000

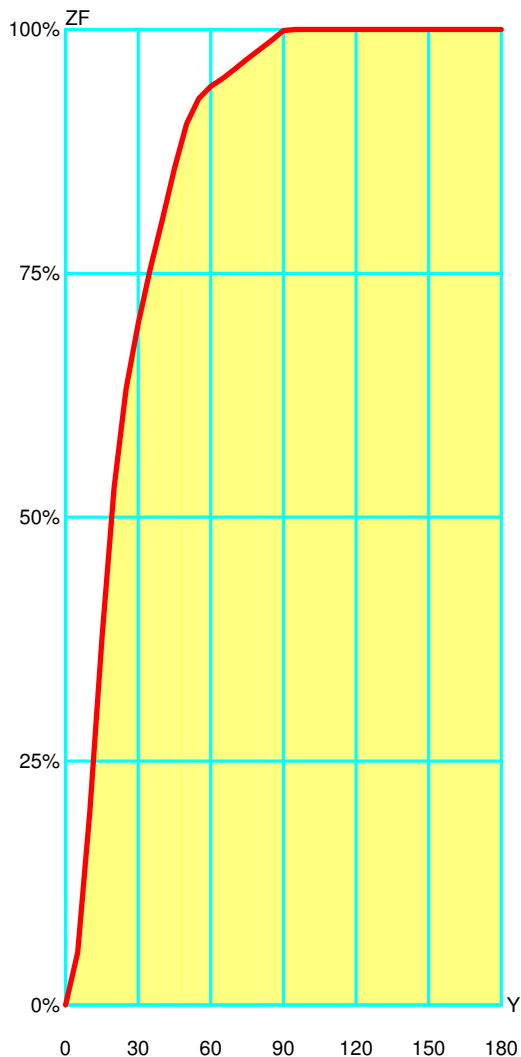
Códigos de Flujo C.I.E.

82 94 97 100 100

C.I.E.
D DIN 5040
F UTE
B NBN
RN
BLF

-/-/-/1/1/1/1/1/1/-/
A60
1.00 B
BZ 1
0.11126 %
1.0

LOR 100.00000 %
ULOR 0.11126 %
DLOR 99.88874 %
UFF 0.11126 %
DFF 99.88874 %
FFR 0.11138 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00 %	0.00 %
5°	53.93	53.93	5.39 %	5.39 %
10°	145.22	199.16	14.52 %	19.92 %
15°	175.79	374.94	17.58 %	37.49 %
20°	155.04	529.98	15.50 %	53.00 %
25°	101.45	631.43	10.15 %	63.14 %
30°	67.07	698.50	6.71 %	69.85 %
35°	56.09	754.59	5.61 %	75.46 %
40°	50.62	805.21	5.06 %	80.52 %
45°	52.70	857.91	5.27 %	85.79 %
50°	45.22	903.14	4.52 %	90.31 %
55°	25.92	929.06	2.59 %	92.91 %
60°	12.51	941.57	1.25 %	94.16 %
65°	8.31	949.87	0.83 %	94.99 %
70°	9.69	959.56	0.97 %	95.96 %
75°	10.11	969.67	1.01 %	96.97 %
80°	9.39	979.06	0.94 %	97.91 %
85°	9.43	988.49	0.94 %	98.85 %
90°	10.40	998.89	1.04 %	99.89 %
95°	1.11	1000.00	0.11 %	100.00 %
100°	0.00	1000.00	0.00 %	100.00 %
105°	0.00	1000.00	0.00 %	100.00 %
110°	0.00	1000.00	0.00 %	100.00 %
115°	0.00	1000.00	0.00 %	100.00 %
120°	0.00	1000.00	0.00 %	100.00 %
125°	0.00	1000.00	0.00 %	100.00 %
130°	0.00	1000.00	0.00 %	100.00 %
135°	0.00	1000.00	0.00 %	100.00 %
140°	0.00	1000.00	0.00 %	100.00 %
145°	0.00	1000.00	0.00 %	100.00 %
150°	0.00	1000.00	0.00 %	100.00 %
155°	0.00	1000.00	0.00 %	100.00 %
160°	0.00	1000.00	0.00 %	100.00 %
165°	0.00	1000.00	0.00 %	100.00 %
170°	0.00	1000.00	0.00 %	100.00 %
175°	0.00	1000.00	0.00 %	100.00 %
180°	0.00	1000.00	0.00 %	100.00 %

Luminaire

Code TC-0135-BLA
Name GU10 STANDAR SOUND PLUS

Measurement

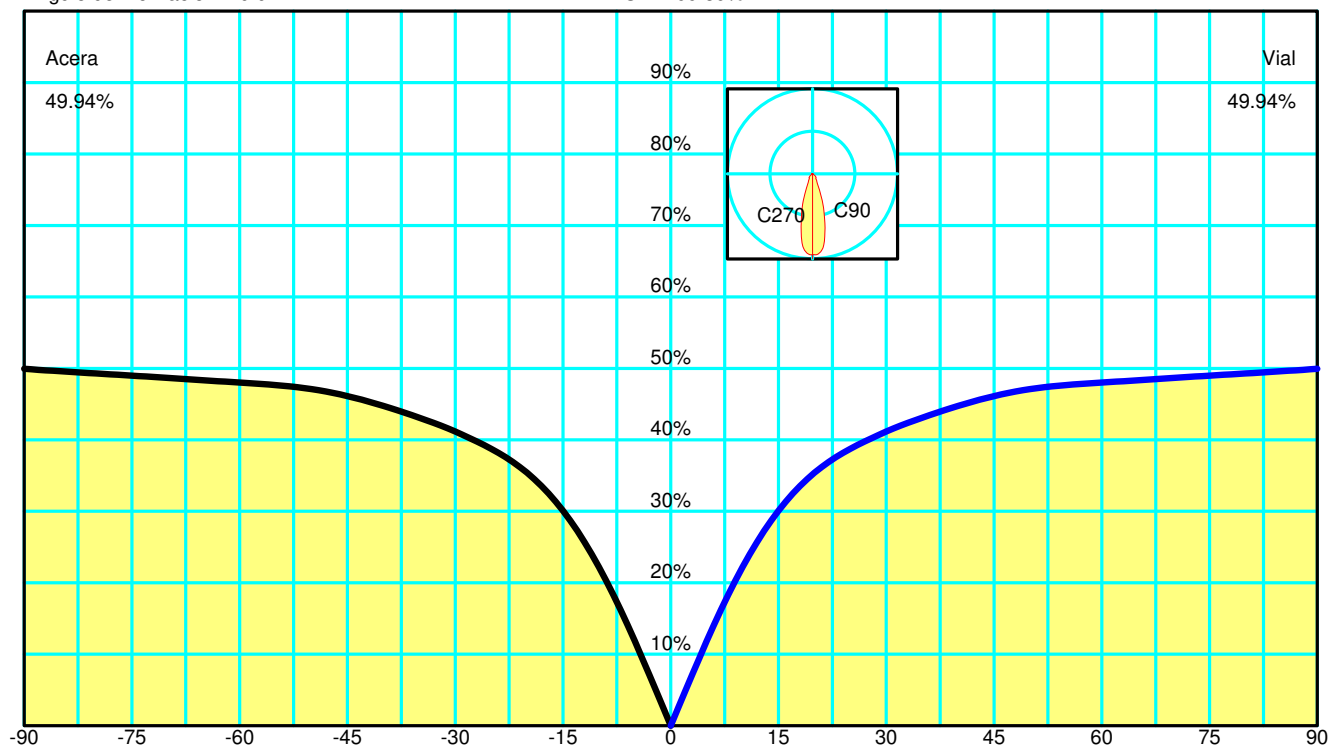
Code TC-0135-BLA
Name GU10 STANDAR SOUND PLUS

Luminaire Flux	525.20 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Lamps Flux	525.20 lm	Maximum value	1202.76 cd	Position	C=0.00 G=1.00	CG	Rotosymmetrical

Pavement			Road		
Piano	0	0.00%	Piano	0	0.00%
Piano	-5	11.82%	Piano	5	11.82%
Piano	-10	22.22%	Piano	10	22.22%
Piano	-15	30.08%	Piano	15	30.08%
Piano	-20	35.40%	Piano	20	35.40%
Piano	-25	38.74%	Piano	25	38.74%
Piano	-30	41.16%	Piano	30	41.16%
Piano	-35	43.10%	Piano	35	43.10%
Piano	-40	44.74%	Piano	40	44.74%
Piano	-45	46.12%	Piano	45	46.12%
Piano	-50	47.10%	Piano	50	47.10%
Piano	-55	47.66%	Piano	55	47.66%
Piano	-60	48.02%	Piano	60	48.02%
Piano	-65	48.33%	Piano	65	48.33%
Piano	-70	48.66%	Piano	70	48.66%
Piano	-75	48.99%	Piano	75	48.99%
Piano	-80	49.29%	Piano	80	49.29%
Piano	-85	49.60%	Piano	85	49.60%
Piano	-90	49.94%	Piano	90	49.94%

Ángulo de Inclinación = 0.0

DLOR = 99.89%



Spread 7.6° Estrecho

Throw 3.8° Corto

Cutoff CIE Semi Cutoff - Max: C=0.0° Gamma=1.0°

Cutoff Iesna Cutoff

DIN5044 KB2

IESNA Type V Very Short Quadrilateral Symmetry

DLOR 99.88874 %

ULOR 0.11126 %

Rendimiento 100.00000 %

RN 0.11126 %

Clase de Intensidad Luminosa G2

Índice de Deslumbramiento D5

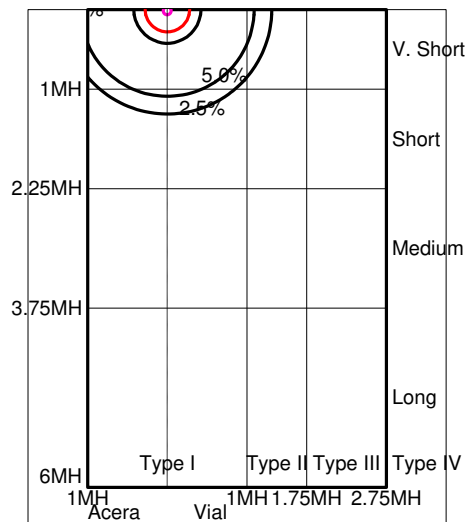
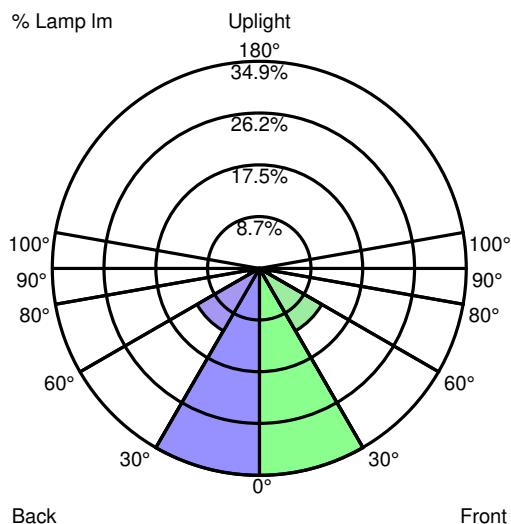
Luminaire

Code TC-0135-BLA
Name GU10 STANDAR SOUND PLUS

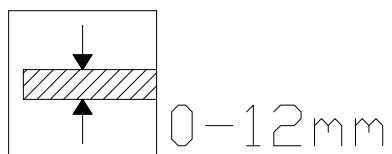
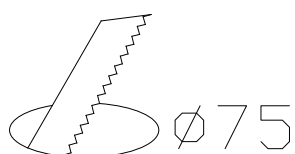
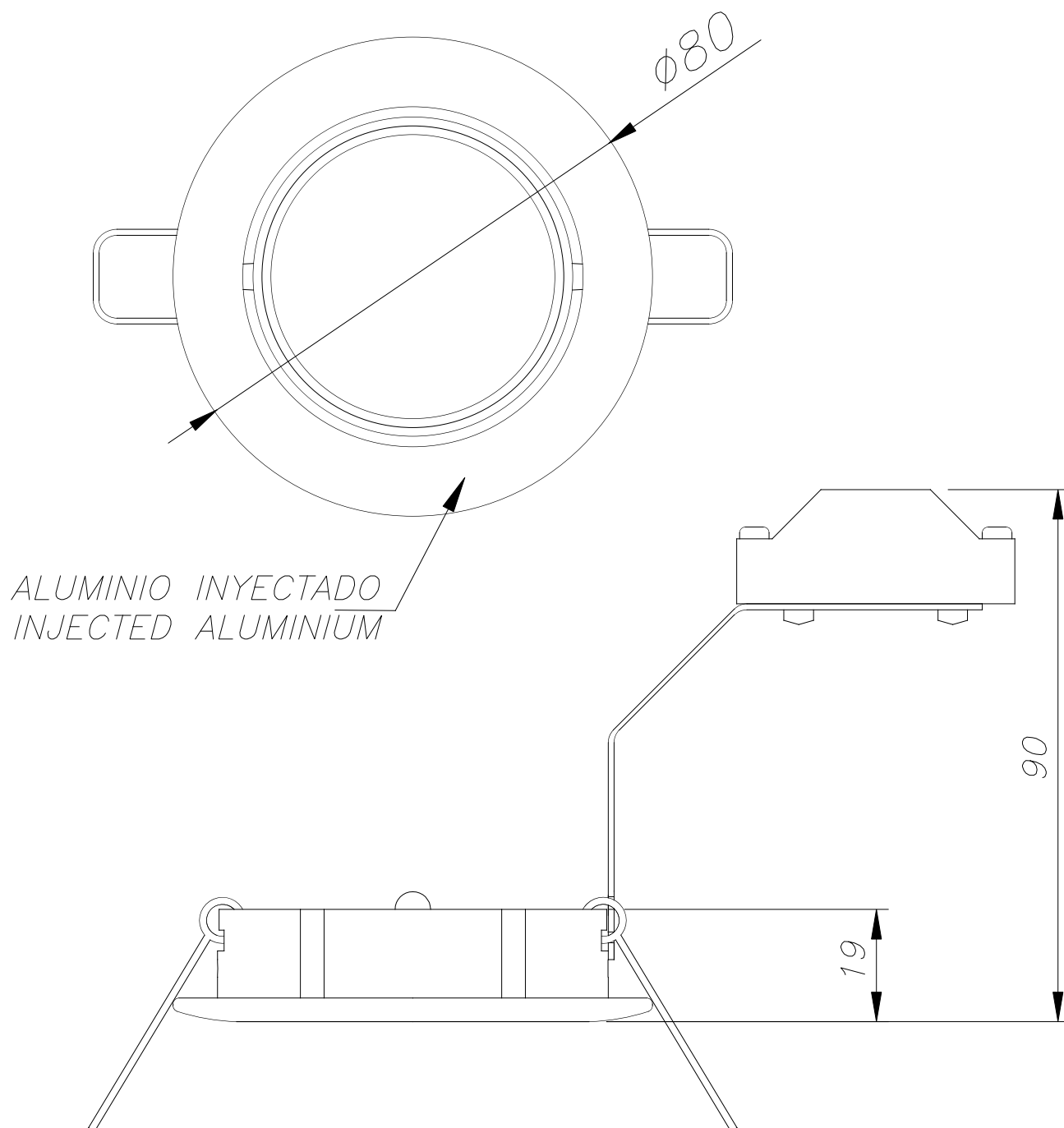
Measurem.

Code TC-0135-BLA
Name GU10 STANDAR SOUND PLUS

Luminaire Flux	525.20 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Lamps Flux	525.20 lm	Maximum value	1202.76 cd	Position	C=0.00 G=1.00	CG	Rotosymmetrical

US ROAD STANDARDS


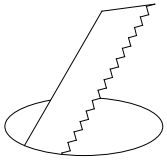
Luminaire Classification System (LCS)				
LCS Zone		Lumens	%Lamp	%Lum
FL	0° -- 30°	183.4 lm	34.9 %	34.9 %
FM	30° -- 60°	63.9 lm	12.2 %	12.2 %
FH	60° -- 80°	9.8 lm	1.9 %	1.9 %
FVH	80° -- 90°	5.2 lm	1.0 %	1.0 %
BL	0° -- 30°	183.4 lm	34.9 %	34.9 %
BM	30° -- 60°	63.9 lm	12.2 %	12.2 %
BH	60° -- 80°	9.8 lm	1.9 %	1.9 %
BVH	80° -- 90°	5.2 lm	1.0 %	1.0 %
UL	90° -- 100°	0.6 lm	0.1 %	0.1 %
UH	100° -- 180°	0.0 lm	0.0 %	0.0 %
TOTALS		525.2 lm	100.0 %	100.0 %
BUG B1 U1 G0 Type V Very Short Quadrilateral Symmetry				



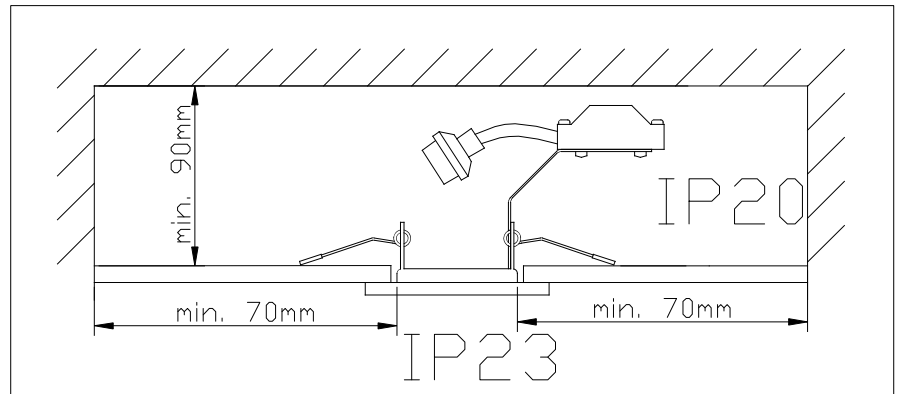
Scale 1:1

①

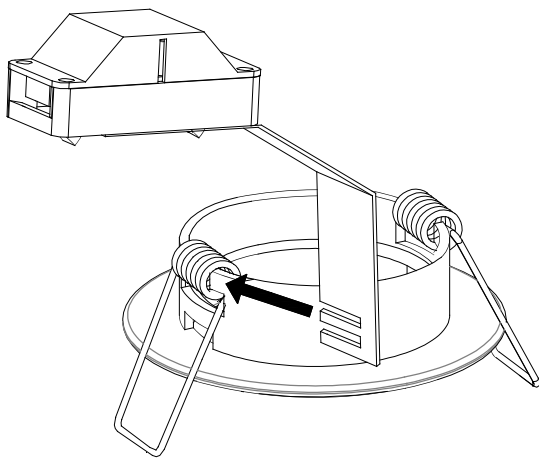
GU 10



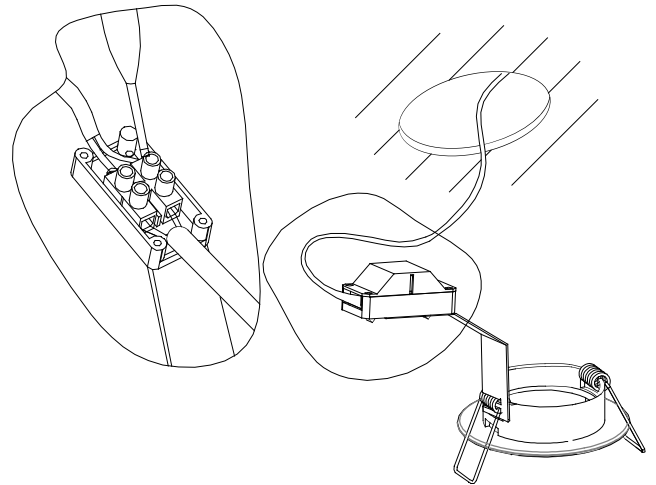
Ø75mm



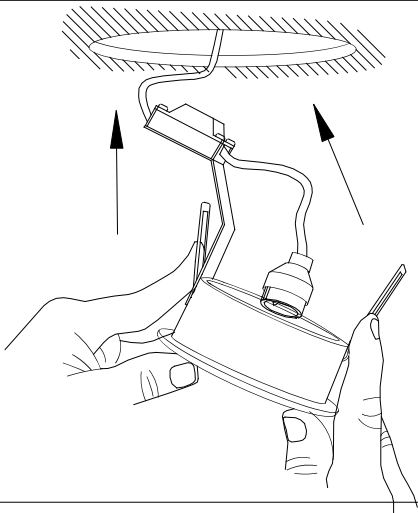
②



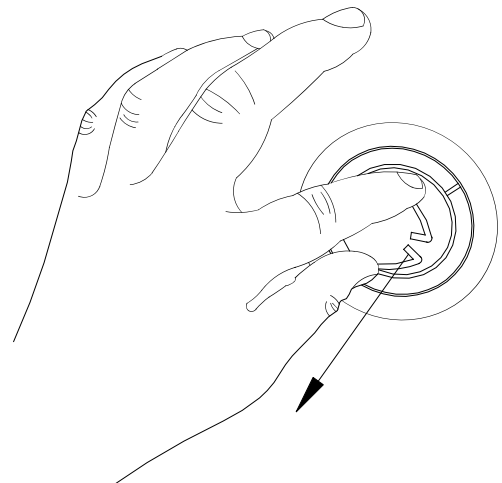
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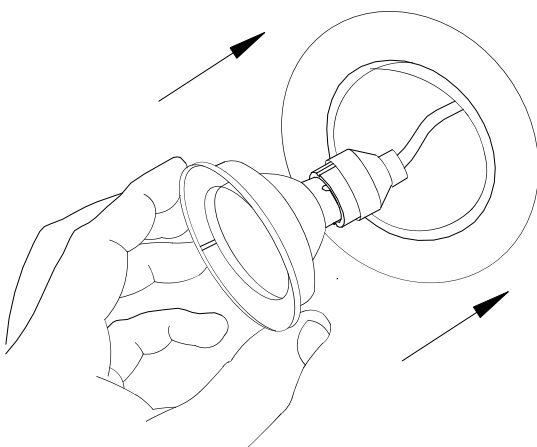
④



⑤



⑥



⑦

