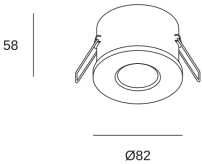


TC-1200-SAT

Wall fixture IP54 Minor Chrome

TECHNICAL FEATURES



70



0-16

IP54



0,5m

Luminaire total power : 8W

Real lumens : 857

Real lm/W : 107

Lens / reflector angle : FLOOD 59°

Structure material : Aluminium

Structure finish : Satin nickel

Diffuser material : Glass

Diffuser finish : Transparent

Max. size of light bulb : 55/50 mm

Recommended light bulb : GU10/G5.3

Equipment necessary but not included :

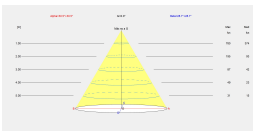
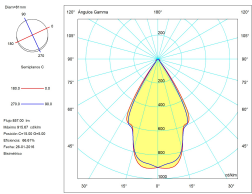
Voltage / frequency : 12V/50-60Hz

Warranty : 3 Years

Easily recyclable luminaire

LUMINOTECHNIC FEATURES

Lampholder	Quantity	Light source power (W)	Correlated Colour Temperature (CCT)
GU10/G5.3	1	Max. power 8W	-



LOGISTICS

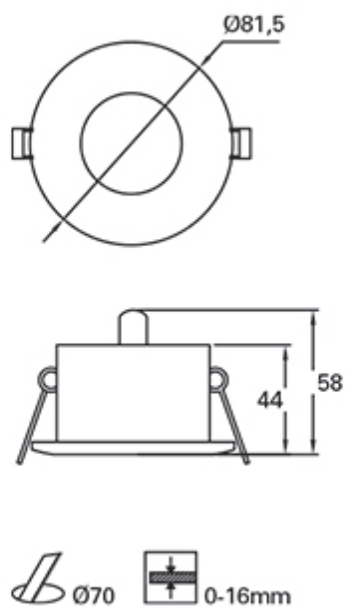
Net weight (kg): 0.2

Packaged weight (kg): 0.24

Packaging: 90mm x 90mm x 70mm



50 Un



Luminaire

Code TC-1200-SAT
Name Downlight minor 1x50W GU5.3

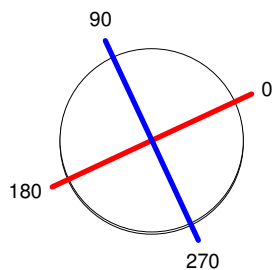
Measurem.

Code TC-1200-SAT
Name Downlight minor 1x50W GU5.3

Luminaire Flux	570.81 lm	Luminaire Power	50.00 W	Efficacy	11.42 lm/W	Efficiency	66.61%
Lamps Flux	857.00 lm	Maximum value	784.73 cd	Position	C=15.00 G=5.00	CG	Double Symmetrical
Round Luminaire		Diam.	40 mm	Height	1 mm		
Round Luminous Area		Diam.	40 mm	Height	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		Double Symmetrical	
Date		26-01-2016		Maximum Gamma Angle		90	
Measurement Distance		0.00		Measurement Flux		857.00 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
		46870VWFL	Name	46870VWFL - 50.00 W	857.00	50.00	1
C.I.E.	95 98 100 100 67		D DIN 5040	A60			
F UTE	0.67 A		B NBN	BZ 1			

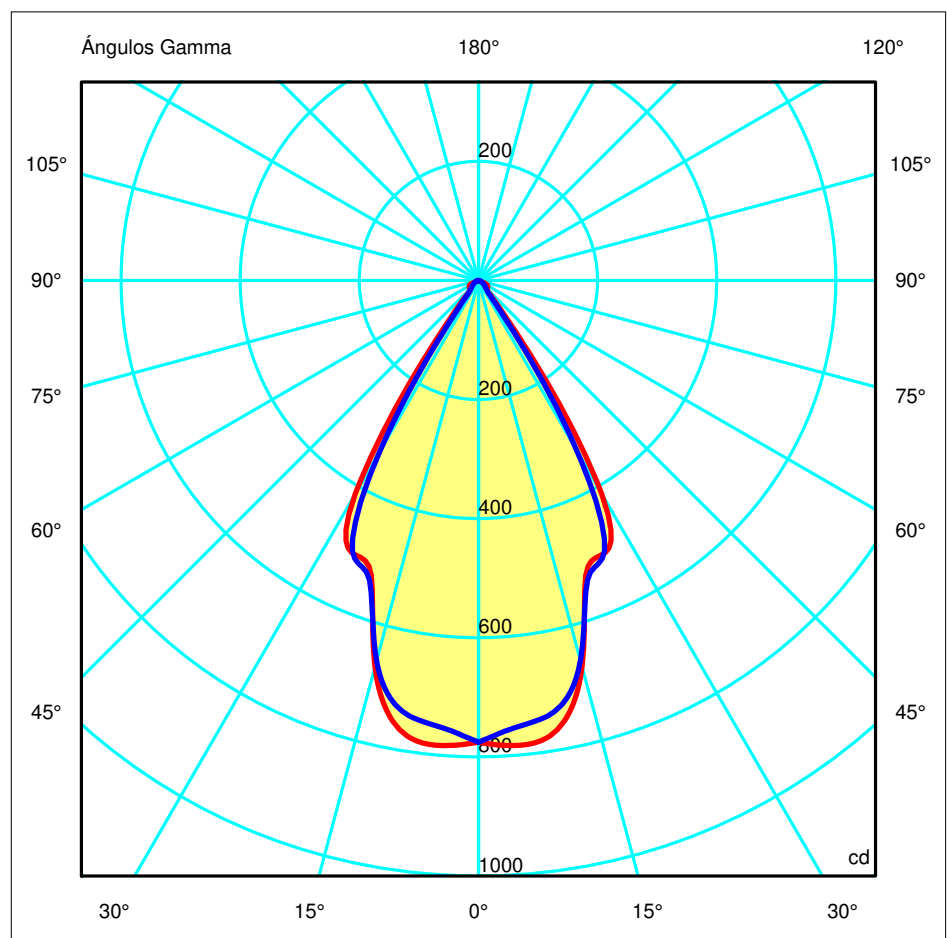
Diam=40mm



Semiplanos C

180.0 — 0.0
270.0 — 90.0

ULOR 0.00 %
DLOR 66.61 %
RN 0.00 %



Luminaire

Code TC-1200-SAT
Name Downlight minor 1x50W GU5.3

Measurem.

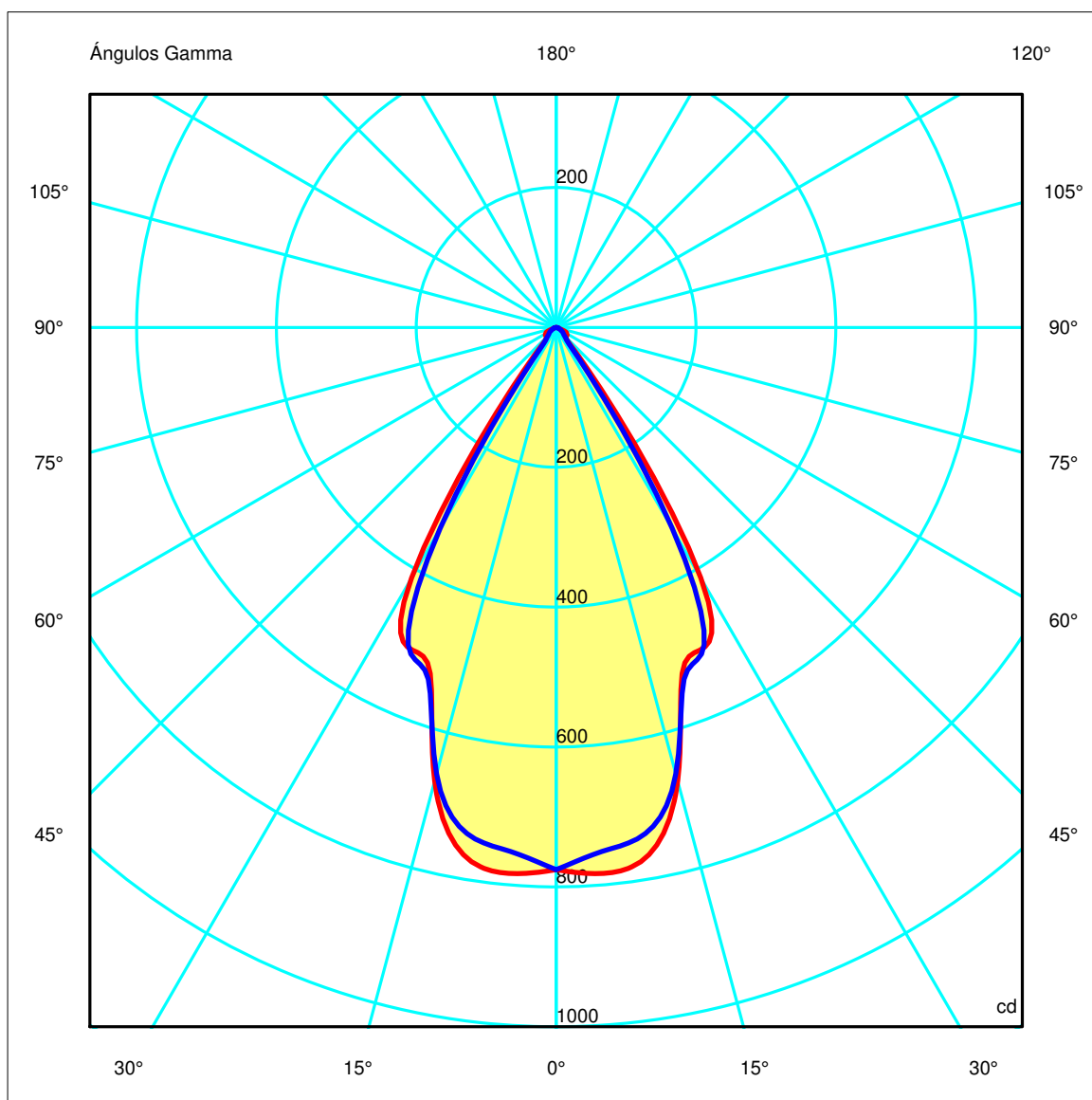
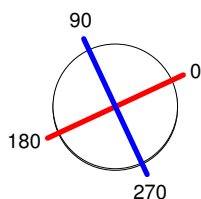
Code TC-1200-SAT
Name Downlight minor 1x50W GU5.3

Luminaire Flux	570.81 lm	Luminaire Power	50.00 W	Efficacy	11.42 lm/W	Efficiency	66.61%
Lamps Flux	857.00 lm	Maximum value	784.73 cd	Position	C=15.00 G=5.00	CG	Double Symmetrical

Diam=40mm

Semiplanos C

180.0 ——— 0.0
270.0 ——— 90.0



Luminaire

Code TC-1200-SAT
Name Downlight minor 1x50W GU5.3

Measur.

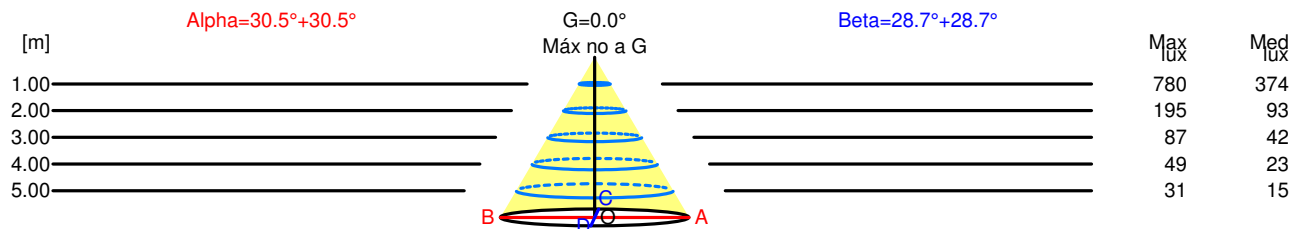
Code TC-1200-SAT
Name Downlight minor 1x50W GU5.3

Luminaire Flux	570.81 lm	Luminaire Power	50.00 W	Efficacy	11.42 lm/W	Efficiency	66.61%
Lamps Flux	857.00 lm	Maximum value	784.73 cd	Position	C=15.00 G=5.00	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	0.59	1.18	1.77	2.35	2.94	OC	0.55	1.10	1.64	2.19	2.74
OB	0.59	1.18	1.77	2.35	2.94	OD	0.55	1.10	1.64	2.19	2.74

	Luminous Intensities [cd]									
	0	5	15	25	35	45	55	65	75	85
OA	775.23	783.48	671.32	503.93	149.72	18.99	18.99	14.92	2.93	0.66
OB	775.23	783.48	671.32	503.93	149.72	18.99	18.99	14.92	2.93	0.66
OC	775.23	752.08	661.05	500.63	82.99	16.60	10.83	6.16	2.45	0.35
OD	775.23	752.08	661.05	500.63	82.99	16.60	10.83	6.16	2.45	0.35



H[m]	D[m]	Max lux	Med lux	Alpha=30.5°+30.5°	G=0.0 Máx no a G	
1.00	1.18	780	374			
2.00	2.35	195	93			
3.00	3.53	87	42			
4.00	4.71	49	23			
5.00	5.88	31	15			

H[m]	D[m]	Max lux	Med lux	Beta=28.7°+28.7°	G=0.0 Máx no a G	
1.00	1.10	780	374			
2.00	2.19	195	93			
3.00	3.29	87	42			
4.00	4.38	49	23			
5.00	5.48	31	15			

Luminaire

Code TC-1200-SAT
Name Downlight minor 1x50W GU5.3

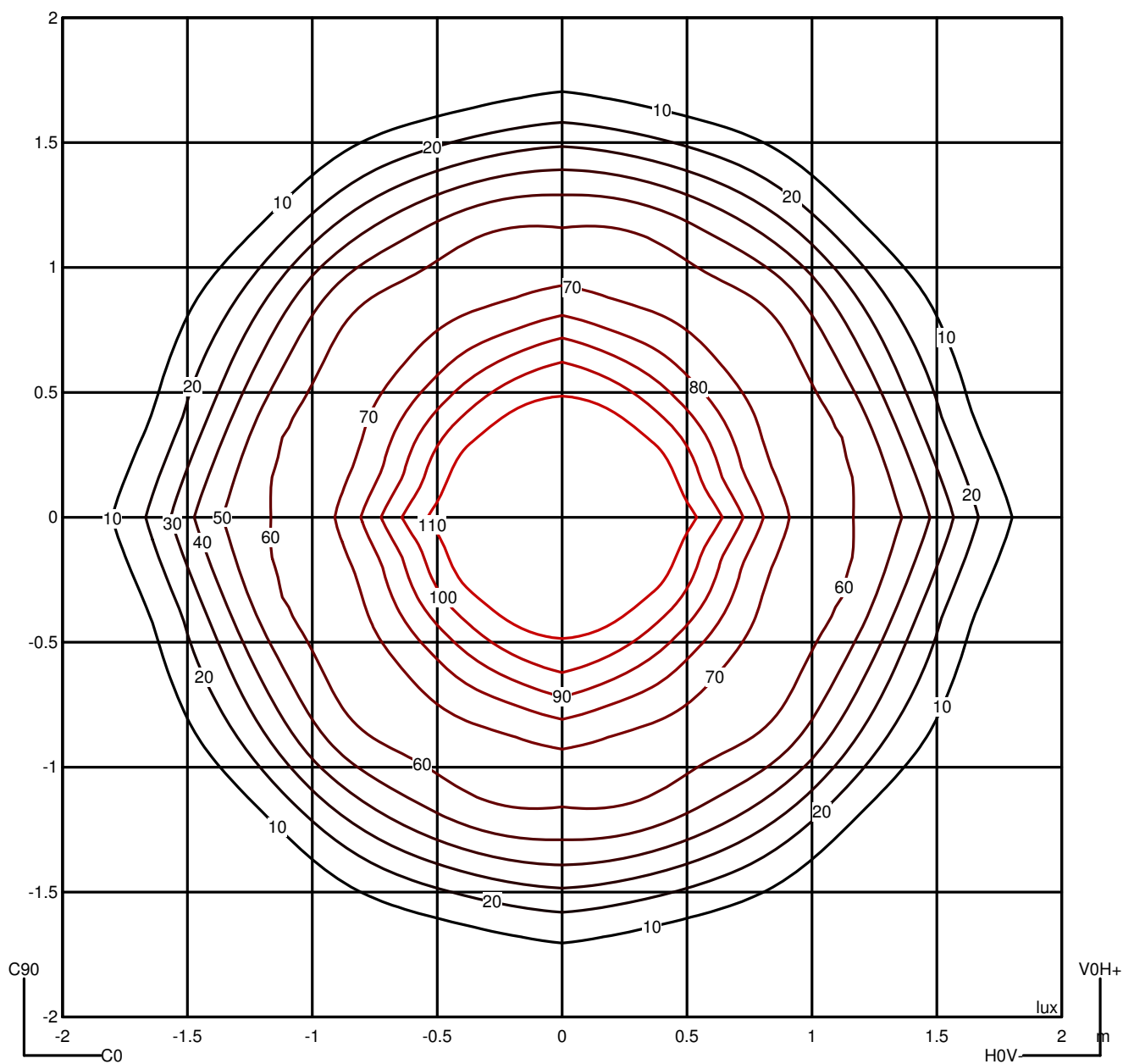
Measurem.

Code TC-1200-SAT
Name Downlight minor 1x50W GU5.3

Luminaire Flux	570.81 lm	Luminaire Power	50.00 W	Efficacy	11.42 lm/W	Efficiency	66.61%
Lamps Flux	857.00 lm	Maximum value	784.73 cd	Position	C=15.00 G=5.00	CG	Double Symmetrical

Isolux (Floor)

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



Luminaire

Code TC-1200-SAT
Name Downlight minor 1x50W GU5.3

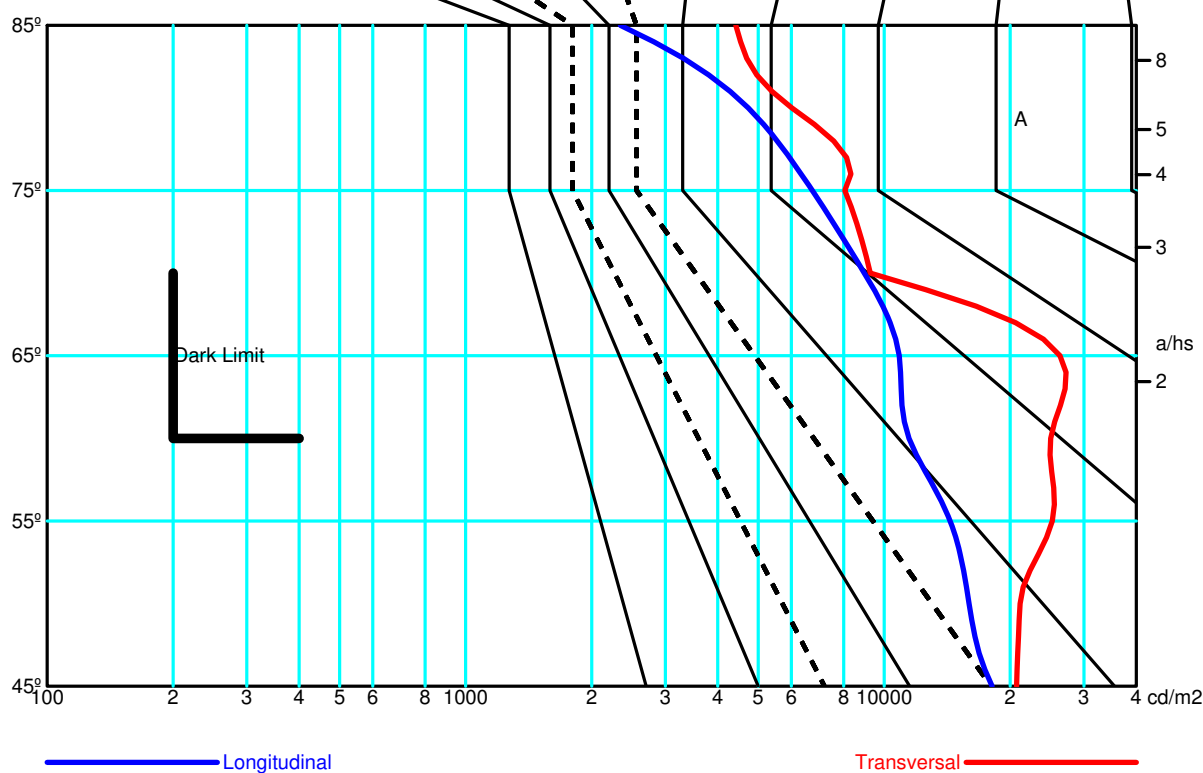
Measurement

Code TC-1200-SAT
Name Downlight minor 1x50W GU5.3

Luminaire Flux	570.81 lm	Luminaire Power	50.00 W	Efficacy	11.42 lm/W	Efficiency	66.61%
Lamps Flux	857.00 lm	Maximum value	784.73 cd	Position	C=15.00 G=5.00	CG	Double Symmetrical

Average Luminance [cd/m²]										
0.0°	45°	50°	55°	60°	65°	70°	75°	80°	85°	
20712	21112	25201	24979	26299	9264	8052	6017	4419	---	
18105	15947	14372	11464	10858	8965	6733	4736	2343	---	

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

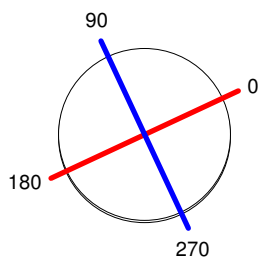
Code TC-1200-SAT
Name Downlight minor 1x50W GU5.3

Measurem.

Code TC-1200-SAT
Name Downlight minor 1x50W GU5.3

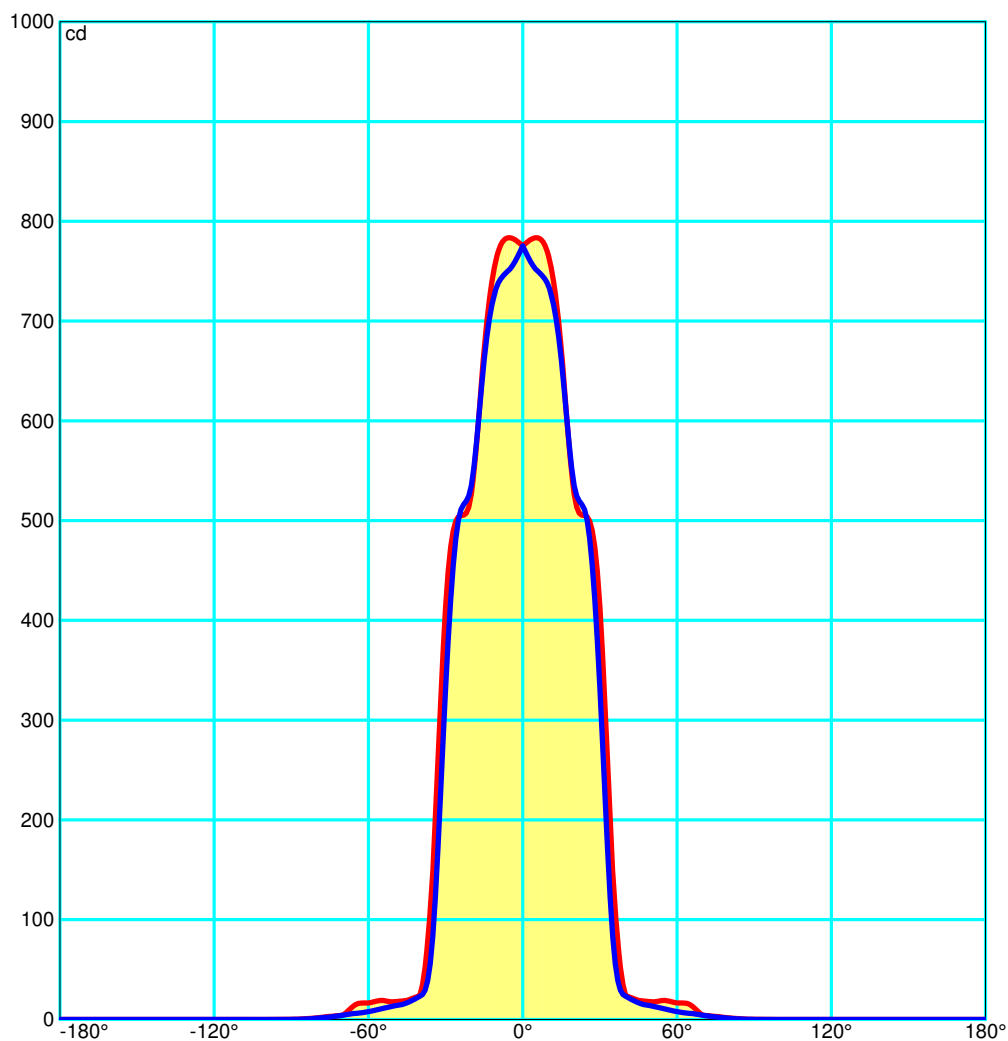
Luminaire Flux	570.81 lm	Luminaire Power	50.00 W	Efficacy	11.42 lm/W	Efficiency	66.61%
Lamps Flux	857.00 lm	Maximum value	784.73 cd	Position	C=15.00 G=5.00	CG	Double Symmetrical

Diam=40mm



Semiplanos C

180.0 — 0.0
270.0 — 90.0



Luminaire

Code TC-1200-SAT
Name Downlight minor 1x50W GU5.3

Measurement

Code TC-1200-SAT
Name Downlight minor 1x50W GU5.3

Luminaire Flux	570.81 lm	Luminaire Power	50.00 W	Efficacy	11.42 lm/W	Efficiency	66.61%
Lamps Flux	857.00 lm	Maximum value	784.73 cd	Position	C=15.00 G=5.00	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										
RoomDimensions	ViewedCrosswise					ViewedEndwise				
	x=2H y=2H	x=2H y=3H	x=2H y=4H	x=2H y=6H	x=2H y=8H	x=2H y=12H	x=4H y=2H	x=4H y=3H	x=4H y=4H	x=4H y=6H
x=2H y=2H	18.9	19.6	19.1	19.8	19.2	18.1	18.8	18.3	19.0	19.2
x=2H y=3H	19.2	19.8	19.5	20.1	19.4	18.4	19.0	18.6	19.2	19.4
x=2H y=4H	19.2	19.8	19.5	20.1	19.5	18.4	19.0	18.7	19.3	19.5
x=2H y=6H	19.3	19.8	19.6	20.1	19.5	18.5	19.0	18.8	19.3	19.5
x=2H y=8H	19.2	19.8	19.6	20.1	19.5	18.4	18.9	18.8	19.2	19.5
x=2H y=12H	19.3	19.7	19.6	20.0	19.5	18.4	18.9	18.8	19.2	19.5
x=4H y=2H	18.9	19.4	19.1	19.7	19.2	18.1	18.7	18.4	18.9	19.2
x=4H y=3H	19.3	19.7	19.6	20.1	19.6	18.5	19.0	18.9	19.3	19.6
x=4H y=4H	19.3	19.8	19.7	20.1	19.7	18.6	19.0	19.0	19.4	19.7
x=4H y=6H	19.4	19.8	19.8	20.1	19.8	18.7	19.0	19.1	19.4	19.8
x=4H y=8H	19.4	19.7	19.8	20.1	19.8	18.7	19.0	19.1	19.4	19.8
x=4H y=12H	19.4	19.7	19.8	20.0	19.7	18.7	18.9	19.1	19.3	19.7
x=8H y=4H	19.3	19.6	19.7	20.0	19.7	18.6	18.9	19.0	19.3	19.7
x=8H y=6H	19.4	19.6	19.9	20.1	19.8	18.7	19.0	19.2	19.4	19.8
x=8H y=8H	19.4	19.6	19.9	20.1	19.8	18.7	18.9	19.2	19.4	19.8
x=8H y=12H	19.4	19.5	19.9	20.0	19.8	18.7	18.9	19.2	19.3	19.8
x=12H y=4H	19.3	19.6	19.7	20.0	19.7	18.6	18.9	19.0	19.3	19.7
x=12H y=6H	19.4	19.6	19.8	20.0	19.8	18.7	18.9	19.1	19.3	19.8
x=12H y=8H	19.4	19.5	19.9	20.0	19.8	18.7	18.9	19.2	19.3	19.8

Luminaire

Code TC-1200-SAT
Name Downlight minor 1x50W GU5.3

Measur.

Code TC-1200-SAT
Name Downlight minor 1x50W GU5.3

Luminaire Flux	570.81 lm	Luminaire Power	50.00 W	Efficacy	11.42 lm/W	Efficiency	66.61%
Lamps Flux	857.00 lm	Maximum value	784.73 cd	Position	C=15.00 G=5.00	CG	Double Symmetrical

Flujo Total=857.00 Flujo Luminaria=570.81

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	0.70	0.75	0.80	0.83	0.86	0.91	0.94	0.96	0.98	0.99	1.01	1.02
RC	-	-	-	-	-	-	-	-	-	-	-	-

Flujo Zonal por 1000 Lúmenes

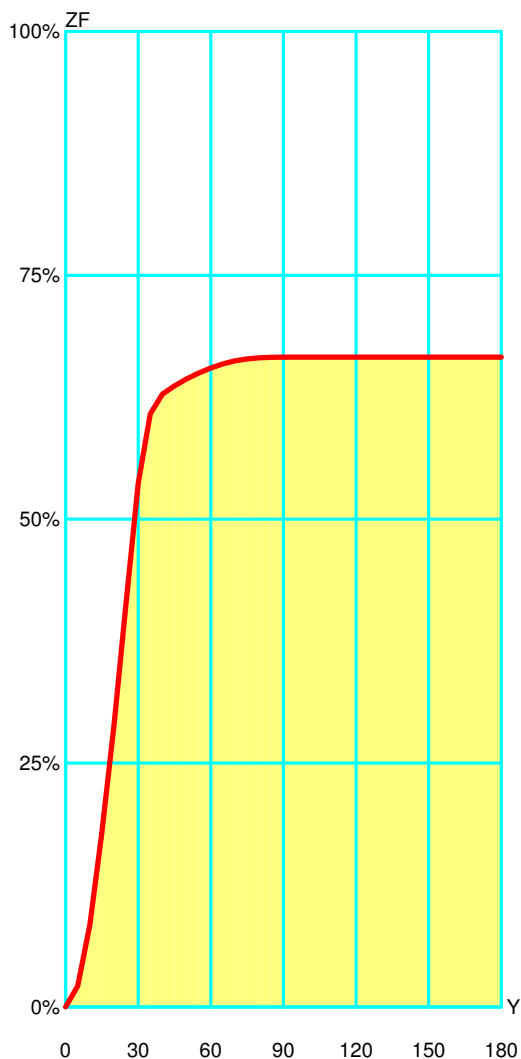
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	84	289	537	628	644	655	662	665	666	666	666	666	666	666	666	666	666	666

Códigos de Flujo C.I.E.

95 98 100 100 67

C.I.E. -/-/-/-/-/-/-/-/-/-
D DIN 5040 A60
F UTE 0.67 A
B NBN BZ 1
RN 0.00000 %
BLF 1.0

LOR 66.60523 %
ULOR 0.00000 %
DLOR 66.60523 %
UFF 0.00000 %
DFF 100.00000 %
FFR 0.00000 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00 %	0.00 %
5°	21.51	21.51	3.23 %	3.23 %
10°	62.88	84.38	9.44 %	12.67 %
15°	94.72	179.11	14.22 %	26.89 %
20°	110.33	289.44	16.56 %	43.46 %
25°	124.69	414.12	18.72 %	62.18 %
30°	122.76	536.88	18.43 %	80.61 %
35°	71.00	607.88	10.66 %	91.27 %
40°	20.38	628.26	3.06 %	94.33 %
45°	8.39	636.65	1.26 %	95.59 %
50°	7.08	643.73	1.06 %	96.65 %
55°	6.19	649.93	0.93 %	97.58 %
60°	5.06	654.98	0.76 %	98.34 %
65°	4.20	659.19	0.63 %	98.97 %
70°	3.18	662.36	0.48 %	99.45 %
75°	1.97	664.33	0.30 %	99.74 %
80°	1.14	665.47	0.17 %	99.91 %
85°	0.48	665.95	0.07 %	99.99 %
90°	0.10	666.05	0.01 %	100.00 %
95°	0.00	666.05	0.00 %	100.00 %
100°	0.00	666.05	0.00 %	100.00 %
105°	0.00	666.05	0.00 %	100.00 %
110°	0.00	666.05	0.00 %	100.00 %
115°	0.00	666.05	0.00 %	100.00 %
120°	0.00	666.05	0.00 %	100.00 %
125°	0.00	666.05	0.00 %	100.00 %
130°	0.00	666.05	0.00 %	100.00 %
135°	0.00	666.05	0.00 %	100.00 %
140°	0.00	666.05	0.00 %	100.00 %
145°	0.00	666.05	0.00 %	100.00 %
150°	0.00	666.05	0.00 %	100.00 %
155°	0.00	666.05	0.00 %	100.00 %
160°	0.00	666.05	0.00 %	100.00 %
165°	0.00	666.05	0.00 %	100.00 %
170°	0.00	666.05	0.00 %	100.00 %
175°	0.00	666.05	0.00 %	100.00 %
180°	0.00	666.05	0.00 %	100.00 %

Luminaire

Code TC-1200-SAT
Name Downlight minor 1x50W GU5.3

Measurement

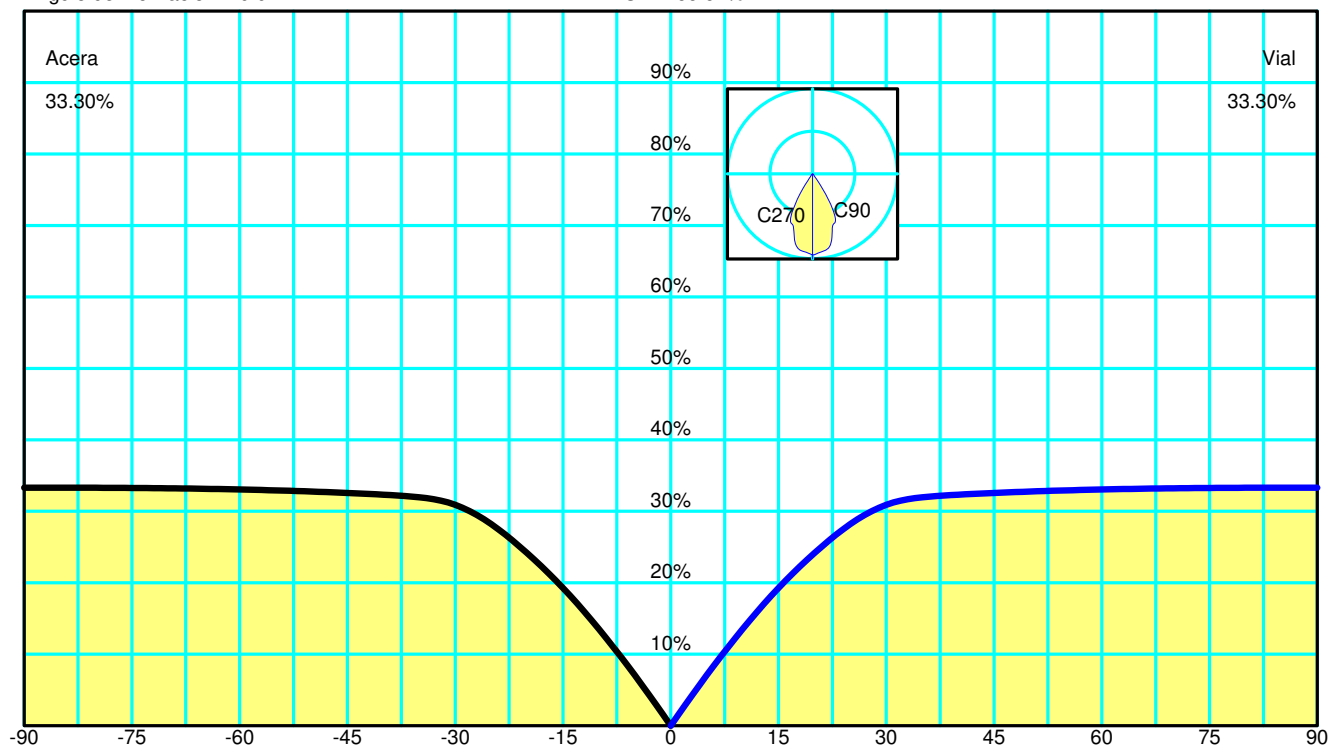
Code TC-1200-SAT
Name Downlight minor 1x50W GU5.3

Luminaire Flux	570.81 lm	Luminaire Power	50.00 W	Efficacy	11.42 lm/W	Efficiency	66.61%
Lamps Flux	857.00 lm	Maximum value	784.73 cd	Position	C=15.00 G=5.00	CG	Double Symmetrical

Pavement			Road		
Piano	0	0.00%	Piano	0	0.00%
Piano	-5	7.04%	Piano	5	7.04%
Piano	-10	13.52%	Piano	10	13.52%
Piano	-15	19.26%	Piano	15	19.26%
Piano	-20	24.17%	Piano	20	24.17%
Piano	-25	28.21%	Piano	25	28.21%
Piano	-30	30.91%	Piano	30	30.91%
Piano	-35	31.96%	Piano	35	31.96%
Piano	-40	32.33%	Piano	40	32.33%
Piano	-45	32.57%	Piano	45	32.57%
Piano	-50	32.77%	Piano	50	32.77%
Piano	-55	32.93%	Piano	55	32.93%
Piano	-60	33.05%	Piano	60	33.05%
Piano	-65	33.15%	Piano	65	33.15%
Piano	-70	33.22%	Piano	70	33.22%
Piano	-75	33.27%	Piano	75	33.27%
Piano	-80	33.29%	Piano	80	33.29%
Piano	-85	33.30%	Piano	85	33.30%
Piano	-90	33.30%	Piano	90	33.30%

Ángulo de Inclinación = 0.0

DLOR = 66.61%



Spread	12.6° Estrecho	DLOR	66.60523 %
Throw	5.9° Corto	ULOR	0.00000 %
SLI (deslumbramiento)	Concentrado	Rendimiento	66.60523 %
Cutoff CIE	Cutoff - Max: C=15.0° Gamma=5.0°	RN	0.00000 %
Cutoff lesna	Cutoff	Clase de Intensidad Luminosa	G5
DIN5044	KB1	Índice de Deslumbramiento	D6
IESNA Type VS Very Short Quadrilateral Symmetry			

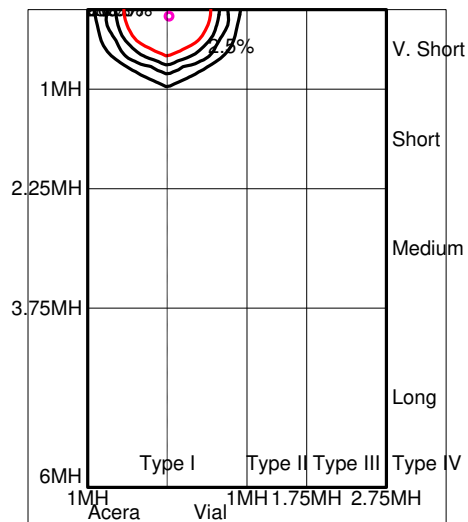
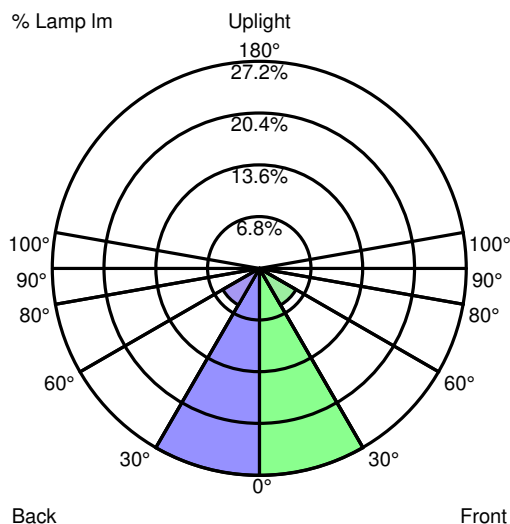
Luminaire

Code TC-1200-SAT
Name Downlight minor 1x50W GU5.3

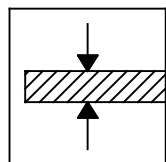
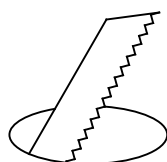
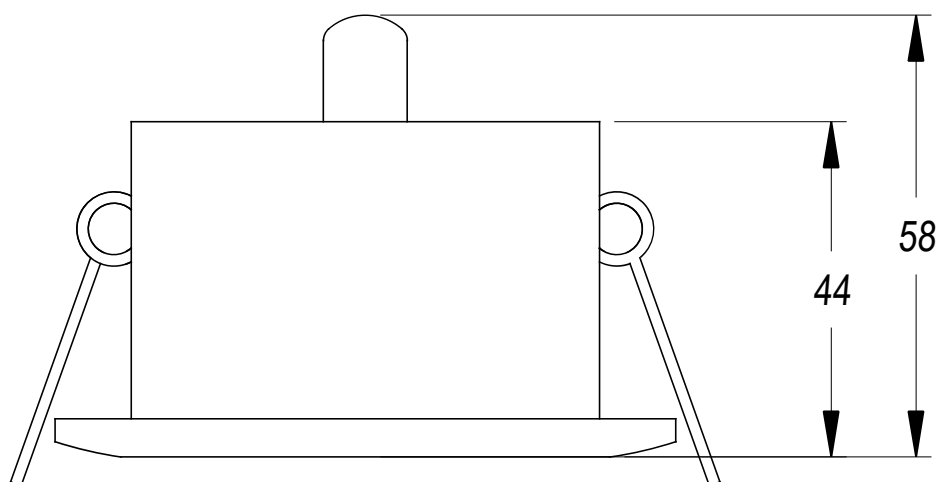
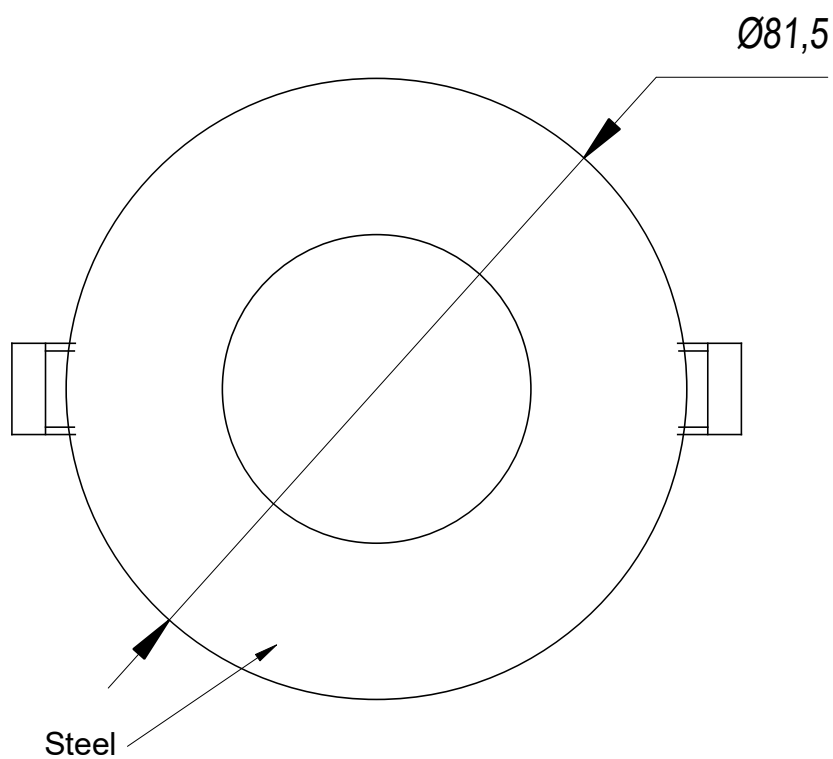
Measurement

Code TC-1200-SAT
Name Downlight minor 1x50W GU5.3

Luminaire Flux	570.81 lm	Luminaire Power	50.00 W	Efficacy	11.42 lm/W	Efficiency	66.61%
Lamps Flux	857.00 lm	Maximum value	784.73 cd	Position	C=15.00 G=5.00	CG	Double Symmetrical

US ROAD STANDARDS


Luminaire Classification System (LCS)				
LCS Zone		Lumens	%Lamp	%Lum
FL	0° -- 30°	233.1 lm	27.2 %	40.8 %
FM	30° -- 60°	47.6 lm	5.6 %	8.3 %
FH	60° -- 80°	4.5 lm	0.5 %	0.8 %
FVH	80° -- 90°	0.2 lm	0.0 %	0.0 %
BL	0° -- 30°	233.1 lm	27.2 %	40.8 %
BM	30° -- 60°	47.6 lm	5.6 %	8.3 %
BH	60° -- 80°	4.5 lm	0.5 %	0.8 %
BVH	80° -- 90°	0.2 lm	0.0 %	0.0 %
UL	90° -- 100°	0.0 lm	0.0 %	0.0 %
UH	100° -- 180°	0.0 lm	0.0 %	0.0 %
TOTALS		570.8 lm	66.6 %	100.0 %
BUG B1 U0 G0 Type VS Very Short Quadrilateral Symmetry				



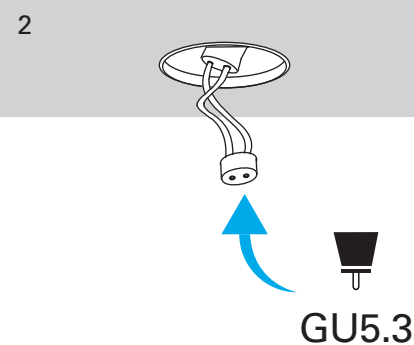
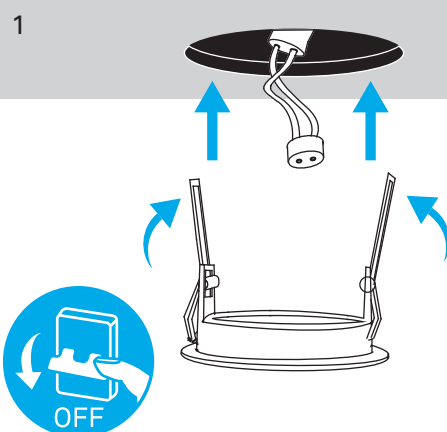
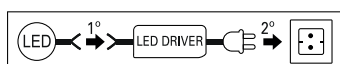
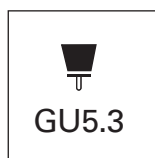
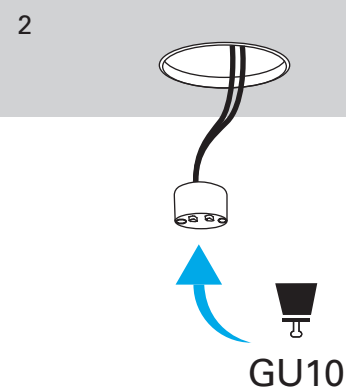
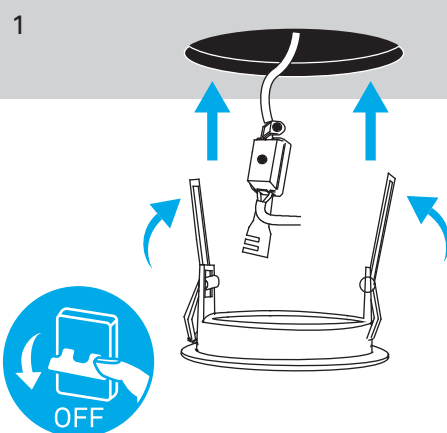
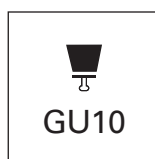
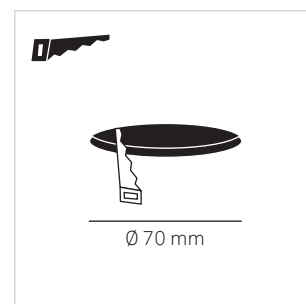
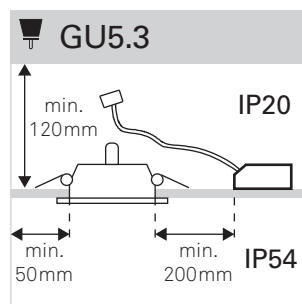
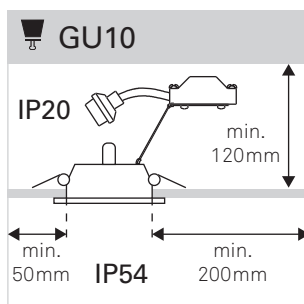
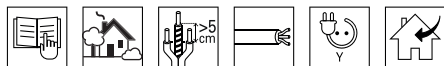
Scale 1:1

02-03-2015

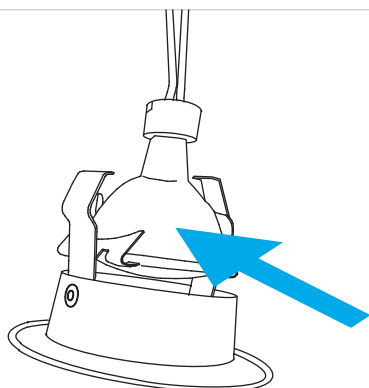


Minor
TC-1200

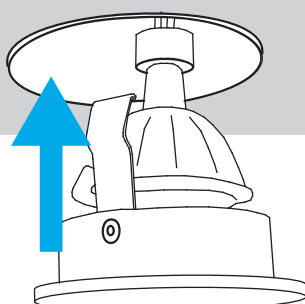
FOR
LIGHT



3



4



5

