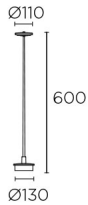


INVISIBLE Beacon

Designer: Francesc Vilaró



Description

Bollard for outdoor use.

For downlighting. Suitable for installation in marine environments. The optical module can easily be rotated 360°. Structure material: High purity aluminium, Fiber glass. Structure finish: Black. Diffuser material: Polycarbonate. Diffuser finish: Opal. UV protection. Warranty: 2 Years.11Product net weight (Kg): 0.4901Product width or diameter (mm): 1301Product height (mm): 60011Class II. IP: IP54. IK: IK04. LED. No. of lampholders or LEDs: 104. LED brand: HANGKE. Driver brand: EAGLERISE. Maximum power of light source: 9W. Colour temperature: Warm White - 3000K. Colour rendering index: 80. MacAdam Steps: 3 STEPS. Hours of life: 50.000h L90B10. UGR: 21.4. Photobiological risk: RG0. Real flux (lm): 469. Nominal flux (lm): 864. Lm/Real W: 38. Voltage and frequency range: 100-240 VAC. Gear included: Yes, electronic. Multi-voltage gear included. Total power: 12.2W. Power factor: 0.59.

Finish
Black
Opal

Material
High purity aluminium
Fiber glass
Polycarbonate



TECHNICAL CHARACTERISTICS

Light source

Light source: LED HANGKE
Output (W): 9W
Total power consumption (W): 12.2W
Color temperature: Warm White - 3000K
CRI: 80
Real Lumen: 469
Nominal Lumen: 864
Qty Leds: 104
Lm/Real W: 38
Life Time: 50.000h L90B10
Bin / Grup: 3000K
MacAdam steps: 3 STEPS
UGR: 21.4
Photobiological risk: RG0

GEAR

Brand: EAGLERISE
Gear included: Yes, electronic
Voltage / Frequency:
100-240VAC/50-60Hz
Power Factor: 0.59

Luminaire

Double cable exit: No
Drainage: No
Seaside: Yes
Uv Protection: Yes
Warranty: 2 Years

Logistics

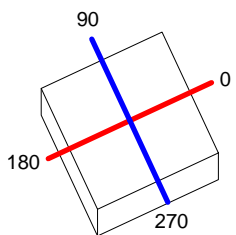
Energy Efficiency: LED A++
EAN Code: 8435381412708
Net Weight (Kg): 0.490
Weight in Kg (packaged): 0.940
Packing: 135 x 135 x 610
Masterbox: 2

The photograph may not match the reference exactly. Please read the product description to identify the finish.

Luminaire		Measur.		Lamp		
Code	55-9733	Code	55-9733	Code		
Name	CHILLOUT	Name	CHILLOUT	Number	27	
Line	INVISIBLE	Date	25-02-2014	Position		
Efficiency	1199.63%	Coordinate system	CG	Total Flux	27.00 lm	
Maximum value	146.88 cd	Position	C=0.00 G=10.00	Asymmetrical		
Rectangular Luminaire	Length	1 mm	Width	1 mm	Height	1 mm
Rectangular Luminous Area	Length	1 mm	Width	1 mm	Height	0 mm
Horizontal Luminous Area	0.000001 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°		0.000000 m2		
Symmetry Type	Asymmetrical	Maximum Gamma Angle		90		
Measurement Distance	0.00	Measurement Flux		27.00 lm		
Operator		Source voltage				
Temperature	25.00 °C	Source current				
Humidity	60.00 %	Photocell				
Notes						

Line	Code	Luminaire Name	Flux [lm]	Pow. [W]	Q.ty
IESNA-2002			1.00	0.00	27
C.I.E.	55 86 98 100 1200	D DIN 5040			
F UTE	12.00 D	B NBN			
		A40			
		BZ 3			

1mm x 1mm



C Halfplanes

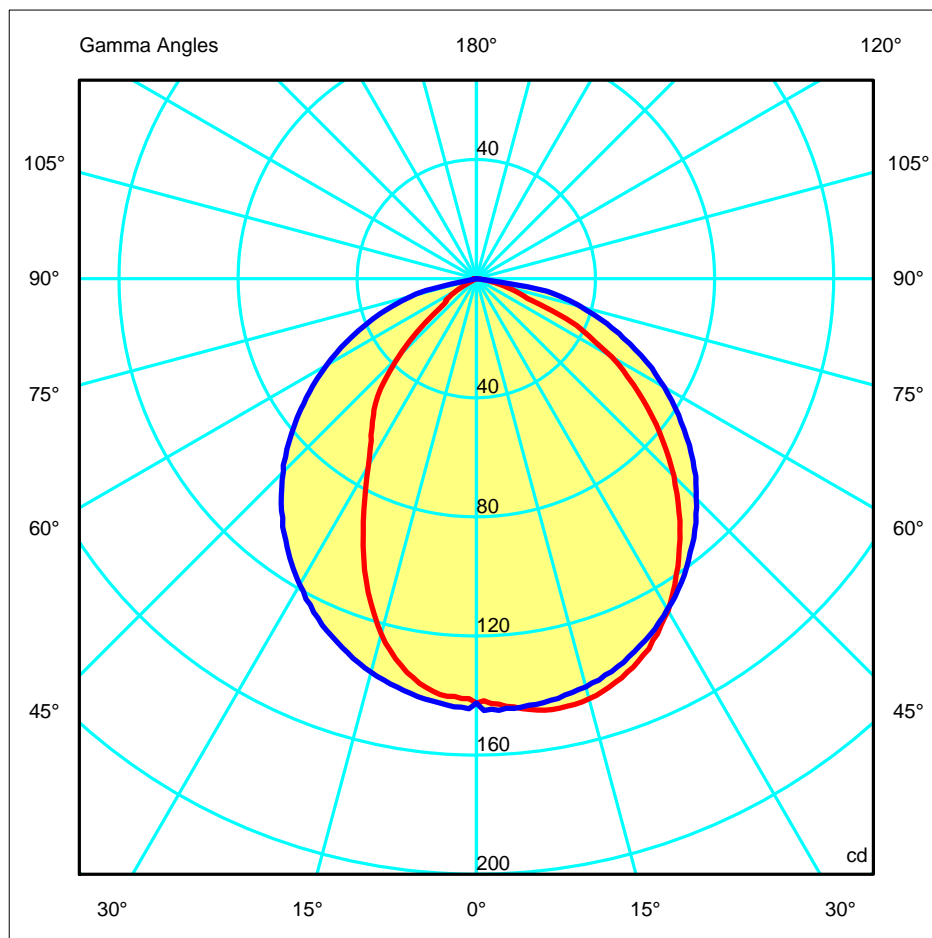
180.0 — 0.0

270.0 — 90.0

ULOR 0.00 %

DLOR 1199.63 %

RN 0.00 %

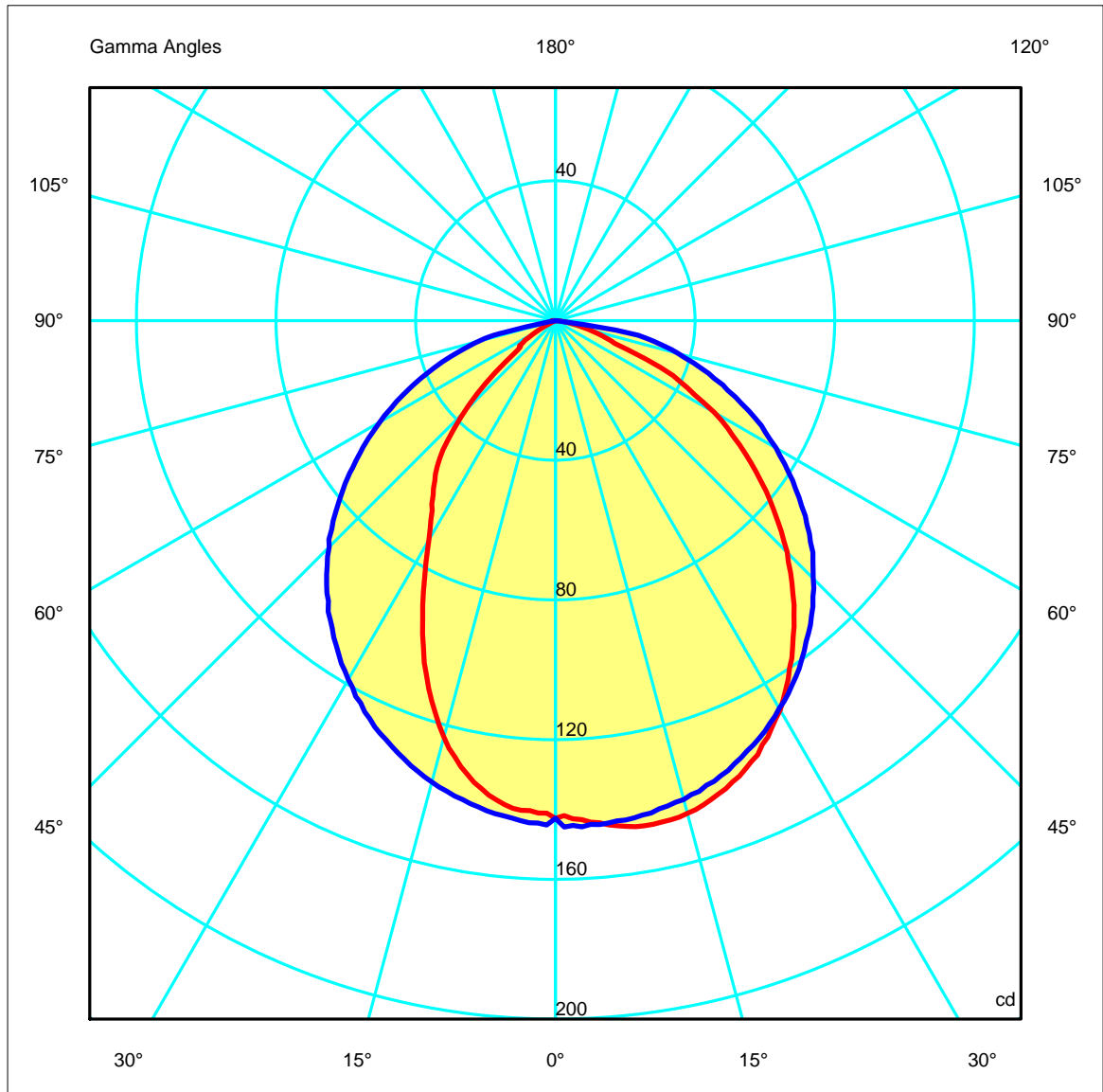
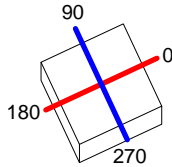


Luminaire		Measur.		Lamp	
Code	55-9733	Code	55-9733	Code	
Name	CHILLOUT	Name	CHILLOUT	Number	27
Line	INVISIBLE	Date	25-02-2014	Position	
Efficiency	1199.63%	Coordinate system	CG	Total Flux	27.00 lm

1mm x 1mm

C Halfplanes

180.0 ——— 0.0
 270.0 ——— 90.0



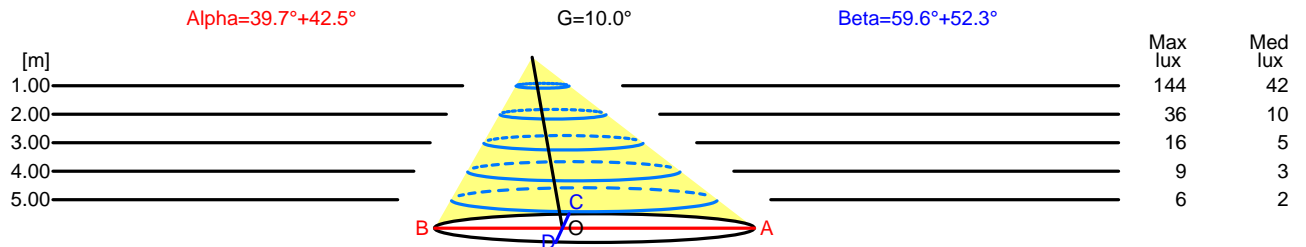
Luminaire		Measuram.		Lamp	
Code	55-9733	Code	55-9733	Code	
Name	CHILLOUT	Name	CHILLOUT	Number	27
Line	INVISIBLE	Date	25-02-2014	Position	
Efficiency	1199.63%	Coordinate system	CG	Total Flux	27.00 lm

Width at 50.00 % of MaxLux

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	1.12	2.25	3.37	4.50	5.62	OC	1.73	3.46	5.19	6.92	8.64
OB	0.75	1.49	2.24	2.99	3.74	OD	1.32	2.63	3.95	5.26	6.58

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	142.51	144.32	146.05	137.15	118.02	93.89	66.37	37.18	9.73	1.09
OB	142.51	140.16	123.46	89.92	61.06	36.74	12.54	0.00	0.00	0.00
OC	142.51	144.83	141.95	134.08	121.66	104.38	83.90	61.06	36.35	0.00
OD	142.51	142.98	136.77	125.76	110.72	91.65	69.70	46.21	22.91	0.00



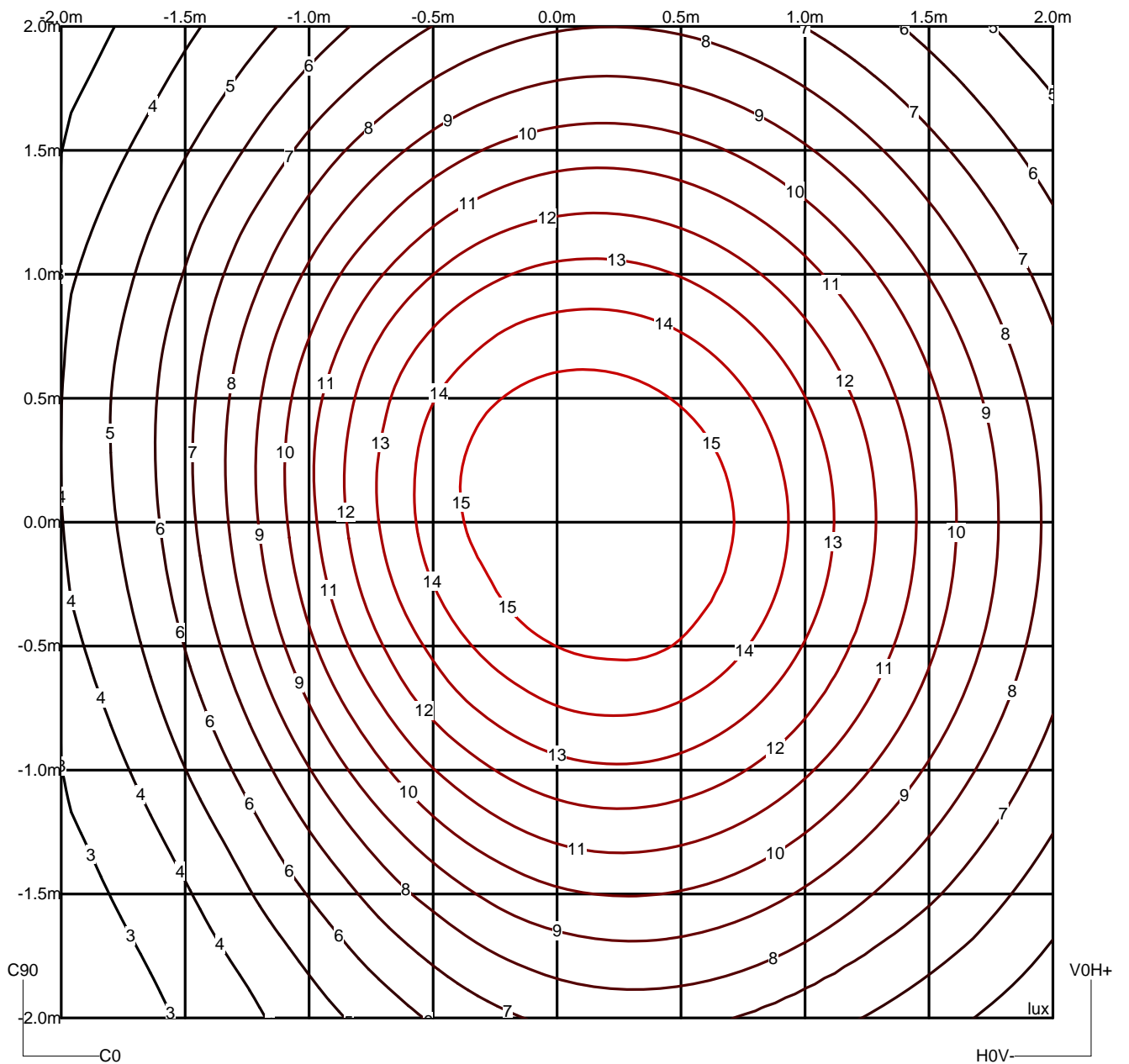
H[m]	D[m]	Max lux	Med lux	Alpha=39.7°+42.5°	G=10.0
1.00	1.87	144	42		
2.00	3.74	36	10		
3.00	5.62	16	5		
4.00	7.49	9	3		
5.00	9.36	6	2		

H[m]	D[m]	Max lux	Med lux	Beta=52.3°+59.6°	G=0.0
1.00	3.04	144	42		
2.00	6.09	36	10		
3.00	9.13	16	5		
4.00	12.18	9	3		
5.00	15.22	6	2		

Luminaire		Measur.		Lamp	
Code	55-9733	Code	55-9733	Code	
Name	CHILLOUT	Name	CHILLOUT	Number	27
Line	INVISIBLE	Date	25-02-2014	Position	
Efficiency	1199.63%	Coordinate system	CG	Total Flux	27.00 lm

Isolux (Floor)

Luminaire position X=0.00m Y=0.00m Z=3.00m



Luminaire
 Code 55-9733
 Name CHILLOUT
 Line INVISIBLE

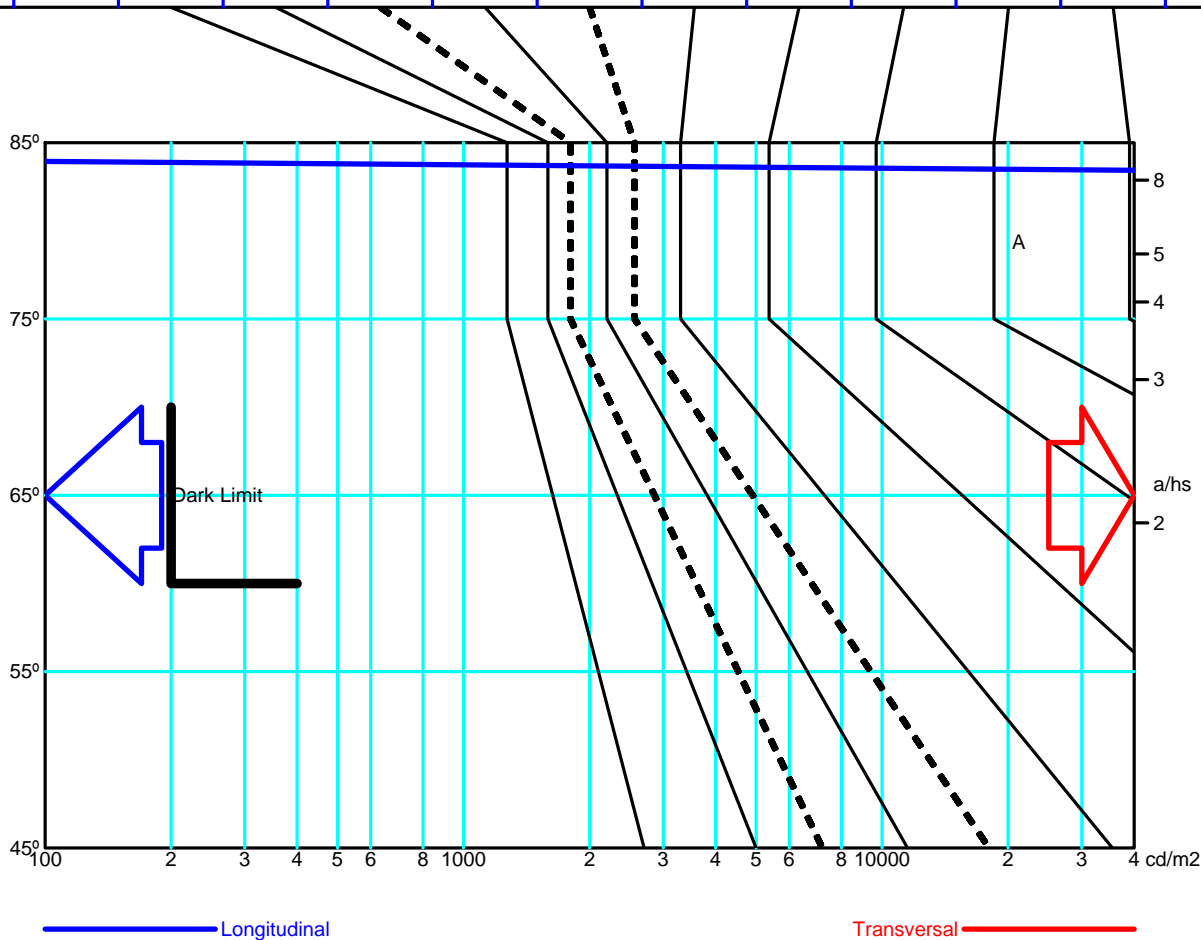
Measur.
 Code 55-9733
 Name CHILLOUT
 Date 25-02-2014

Lamp
 Code
 Number 27
 Position

Efficiency 1199.63% Coordinate system CG Total Flux 27.00 lm

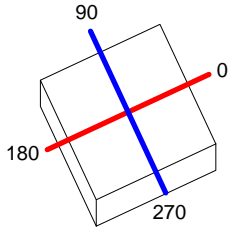
Average Luminance [cd/m ²]											
	45°	50°	55°	60°	65°	70°	75°	80°	85°		
0.0°	132780511	124862394	115712564	105080000	87975375	49587723	37593833	25799292	12506347	---	
90.0°	147615612	147762649	146275186	145920000	144480269	141453657	140445615	138210492	0	---	

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



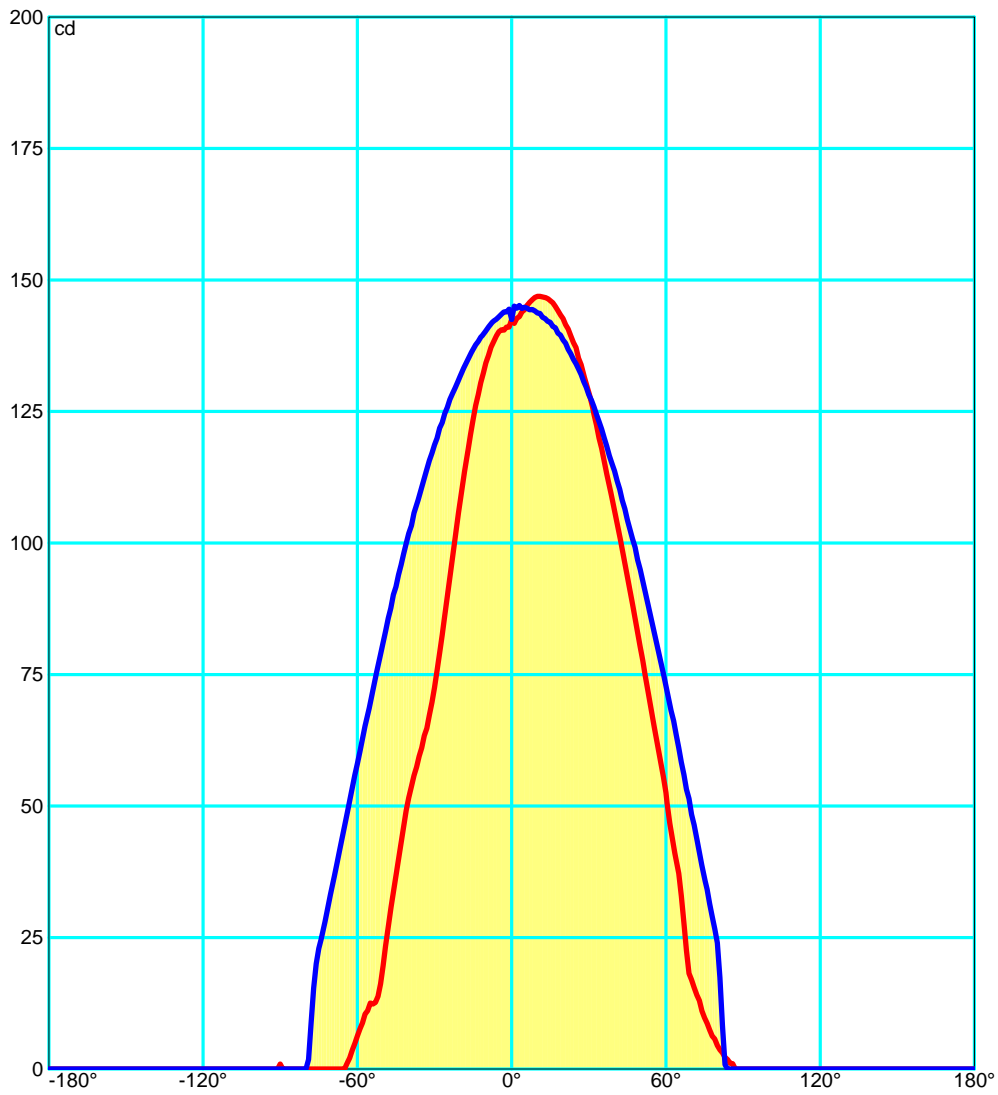
Luminaire		Measur.		Lamp	
Code	55-9733	Code	55-9733	Code	
Name	CHILLOUT	Name	CHILLOUT	Number	27
Line	INVISIBLE	Date	25-02-2014	Position	
Efficiency	1199.63%	Coordinate system	CG	Total Flux	27.00 lm

1mm x 1mm



C Halfplanes

180.0 ——— 0.0
 270.0 ——— 90.0



Luminaire		Measur.		Lamp
Code	55-9733	Code	55-9733	Code
Name	CHILLOUT	Name	CHILLOUT	Number
Line	INVISIBLE	Date	25-02-2014	Position
Efficiency	1199.63%	Coordinate system	CG	Total Flux
				27.00 lm

UGR
S = 0.250

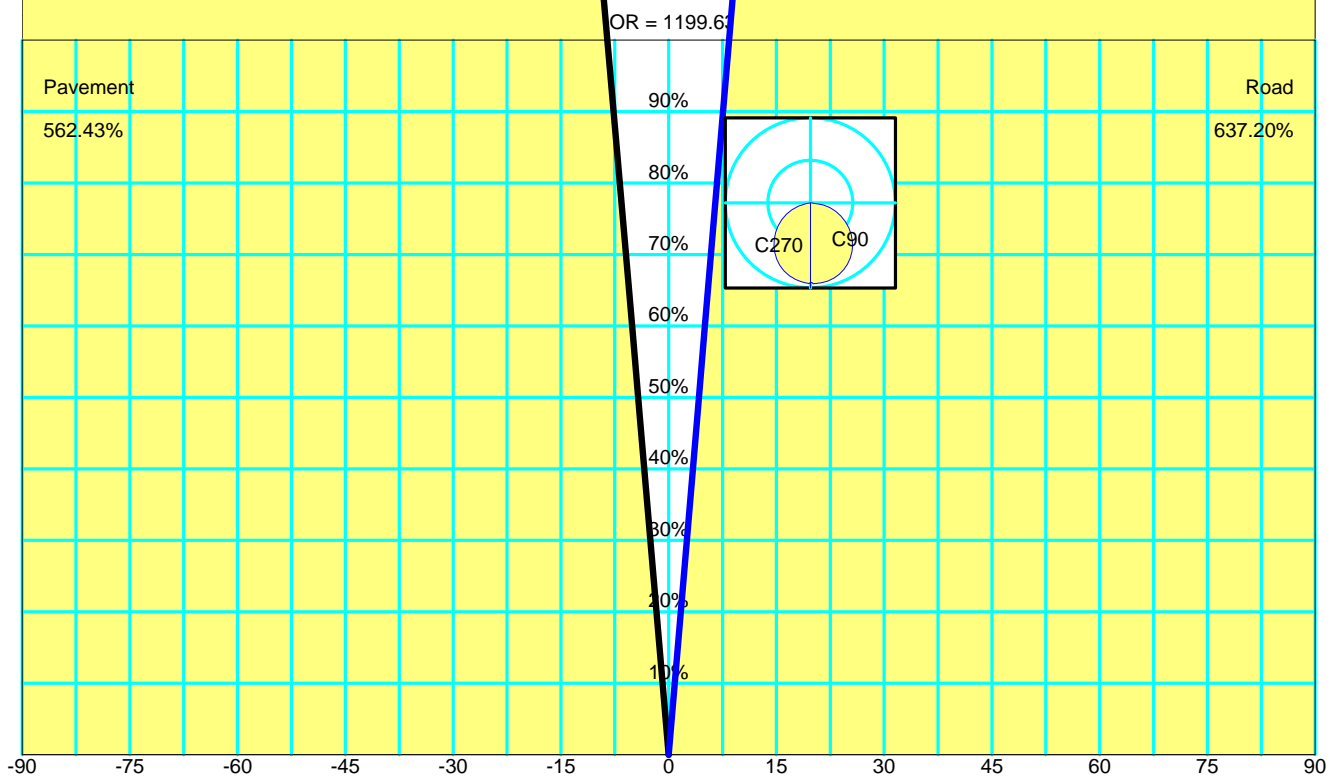
Reflectancies										
Ceiling/Cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
WorkingPlane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
RoomDimensions	ViewedCrosswise					ViewedEndwise				
x=2H y=2H	44.7	46.0	45.0	46.2	54.5	52.8	54.0	53.1	54.2	54.5
x=2H y=3H	44.6	45.7	44.9	45.9	56.0	54.4	55.5	54.8	55.8	56.0
x=2H y=4H	44.5	45.5	44.8	45.8	56.7	55.1	56.1	55.4	56.4	56.7
x=2H y=6H	44.4	45.4	44.8	45.7	56.7	55.2	56.1	55.5	56.4	56.7
x=2H y=8H	44.4	45.3	44.8	45.6	56.7	55.2	56.1	55.5	56.4	56.7
x=2H y=12H	44.4	45.2	44.7	45.5	56.6	55.1	56.0	55.5	56.3	56.6
x=4H y=2H	45.7	46.8	46.1	47.0	54.7	53.1	54.1	53.4	54.4	54.7
x=4H y=3H	45.6	46.5	46.0	46.8	56.4	54.9	55.8	55.3	56.1	56.4
x=4H y=4H	45.5	46.3	45.9	46.6	57.1	55.7	56.4	56.1	56.8	57.1
x=4H y=6H	45.5	46.1	45.9	46.5	57.2	55.8	56.5	56.2	56.8	57.2
x=4H y=8H	45.4	46.0	45.9	46.4	57.2	55.8	56.4	56.2	56.8	57.2
x=4H y=12H	45.4	46.0	45.9	46.4	57.1	55.7	56.3	56.2	56.7	57.1
x=8H y=4H	46.5	47.1	47.0	47.5	57.1	55.7	56.3	56.2	56.7	57.1
x=8H y=6H	46.5	47.0	47.0	47.5	57.3	55.9	56.4	56.3	56.8	57.3
x=8H y=8H	46.6	47.0	47.1	47.5	57.2	55.9	56.3	56.3	56.7	57.2
x=8H y=12H	46.6	47.0	47.1	47.4	57.2	55.8	56.2	56.3	56.7	57.2
x=12H y=4H	46.9	47.4	47.3	47.9	57.1	55.7	56.2	56.2	56.7	57.1
x=12H y=6H	47.0	47.4	47.5	47.9	57.2	55.9	56.3	56.4	56.8	57.2
x=12H y=8H	47.1	47.5	47.6	48.0	57.2	55.8	56.2	56.3	56.7	57.2



Lu
Co
Na
Lir
Ef

Measurement.
Code 55-9733
Name CHILLOUT
Date 25-02-2014

Coordinate system CG



Spread 28.7° Narrow
Throw 13.9° Short

CIE Cutoff Non Cutoff - Max: C=0.0° Gamma=10.0°
IESNA Cutoff Non Cutoff
DIN5044 --

IESNA Type II Very Short Asymmetrical

DLOR 1199.62895 %
ULOR 0.00000 %
Efficiency 1199.62895 %
RN 0.00000 %
Luminous Intensity Class GU
Glare Index D0

Luminaire	Measurement	Lamp
Code 55-9733	Code 55-9733	Code
Name CHILLO	Name CHILLOUT	Number 27
Line INVISIB	Date 25-02-2014	Position
Efficiency	Coordinate system CG	Total Flux 27.00 lm

Flux= 27.00 Luminaire Flux=323.90

RI	0.6	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.3	0.65	0.73	0.79	0.82	0.86	0.89	0.94	0.97
RC	4	4	3	3	3	3	3	3	3

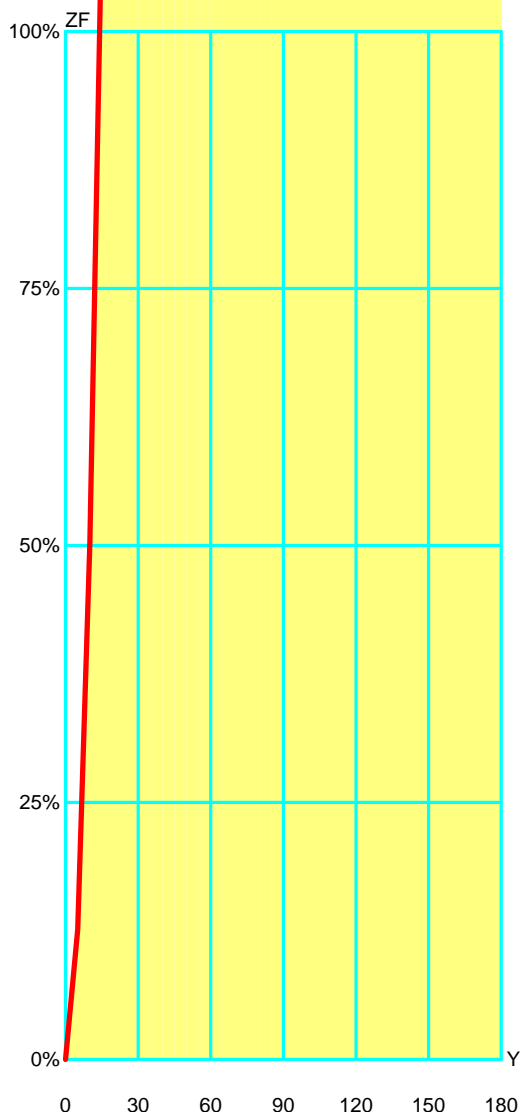
Zonal Flux per 1000 Lumen

Y°	1	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	5	63	11914	11996	11996	11996	11996	11996	11996	11996	11996	11996

CIE Flux Codes

55 86 98 100 1200

C.I.	3/3	LOR	1199.62895 %
D		ULOR	0.00000 %
F		DLOR	1199.62895 %
B		UFF	0.00000 %
RN		DFF	100.00000 %
BL		FFR	0.00000 %



Zonal Flux				
Gamma °	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00%	0.00 %
5°	126.28	126.28	1.05 %	1.05 %
10°	376.65	502.93	3.14 %	4.19 %
15°	612.20	1115.13	5.10 %	9.30 %
20°	817.30	1932.42	6.81 %	16.11 %
25°	977.78	2910.20	8.15 %	24.26 %
30°	1086.83	3997.04	9.06 %	33.32 %
35°	1148.28	5145.32	9.57 %	42.89 %
40°	1167.19	6312.51	9.73 %	52.62 %
45°	1142.54	7455.05	9.52 %	62.14 %
50°	1066.76	8521.80	8.89 %	71.04 %
55°	941.06	9462.87	7.84 %	78.88 %
60°	796.65	10259.52	6.64 %	85.52 %
65°	632.15	10891.67	5.27 %	90.79 %
70°	471.39	11363.07	3.93 %	94.72 %
75°	342.24	11705.31	2.85 %	97.57 %
80°	209.14	11914.44	1.74 %	99.32 %
85°	70.22	11984.66	0.59 %	99.90 %
90°	11.63	11996.29	0.10 %	100.00 %
95°	0.00	11996.29	0.00 %	100.00 %
100°	0.00	11996.29	0.00 %	100.00 %
105°	0.00	11996.29	0.00 %	100.00 %
110°	0.00	11996.29	0.00 %	100.00 %
115°	0.00	11996.29	0.00 %	100.00 %
120°	0.00	11996.29	0.00 %	100.00 %
125°	0.00	11996.29	0.00 %	100.00 %
130°	0.00	11996.29	0.00 %	100.00 %
135°	0.00	11996.29	0.00 %	100.00 %
140°	0.00	11996.29	0.00 %	100.00 %
145°	0.00	11996.29	0.00 %	100.00 %
150°	0.00	11996.29	0.00 %	100.00 %
155°	0.00	11996.29	0.00 %	100.00 %
160°	0.00	11996.29	0.00 %	100.00 %
165°	0.00	11996.29	0.00 %	100.00 %
170°	0.00	11996.29	0.00 %	100.00 %
175°	0.00	11996.29	0.00 %	100.00 %
180°	0.00	11996.29	0.00 %	100.00 %

Luminaire
 Code 55-9733
 Name CHILLOUT
 Line INVISIBLE

Measur.
 Code 55-9733
 Name CHILLOUT
 Date 25-02-2014

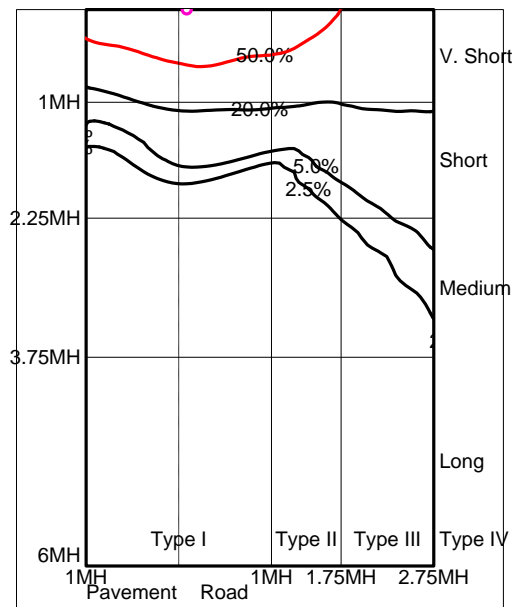
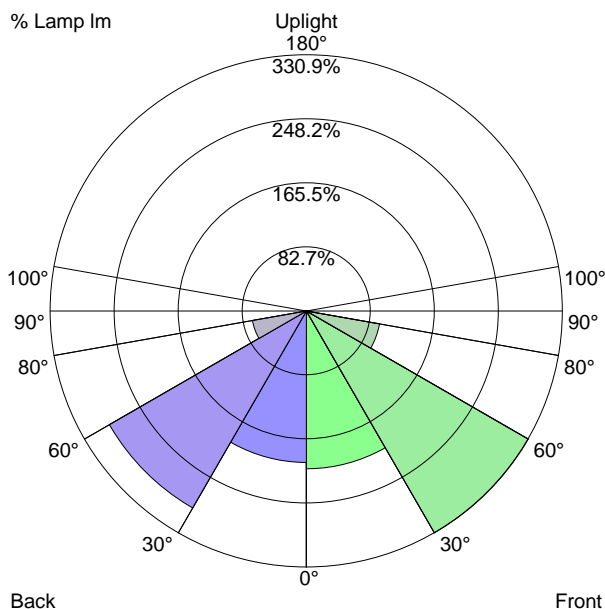
Lamp
 Code
 Number 27
 Position

Efficiency 1199.63%

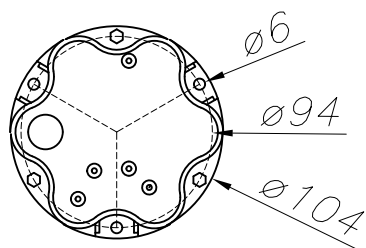
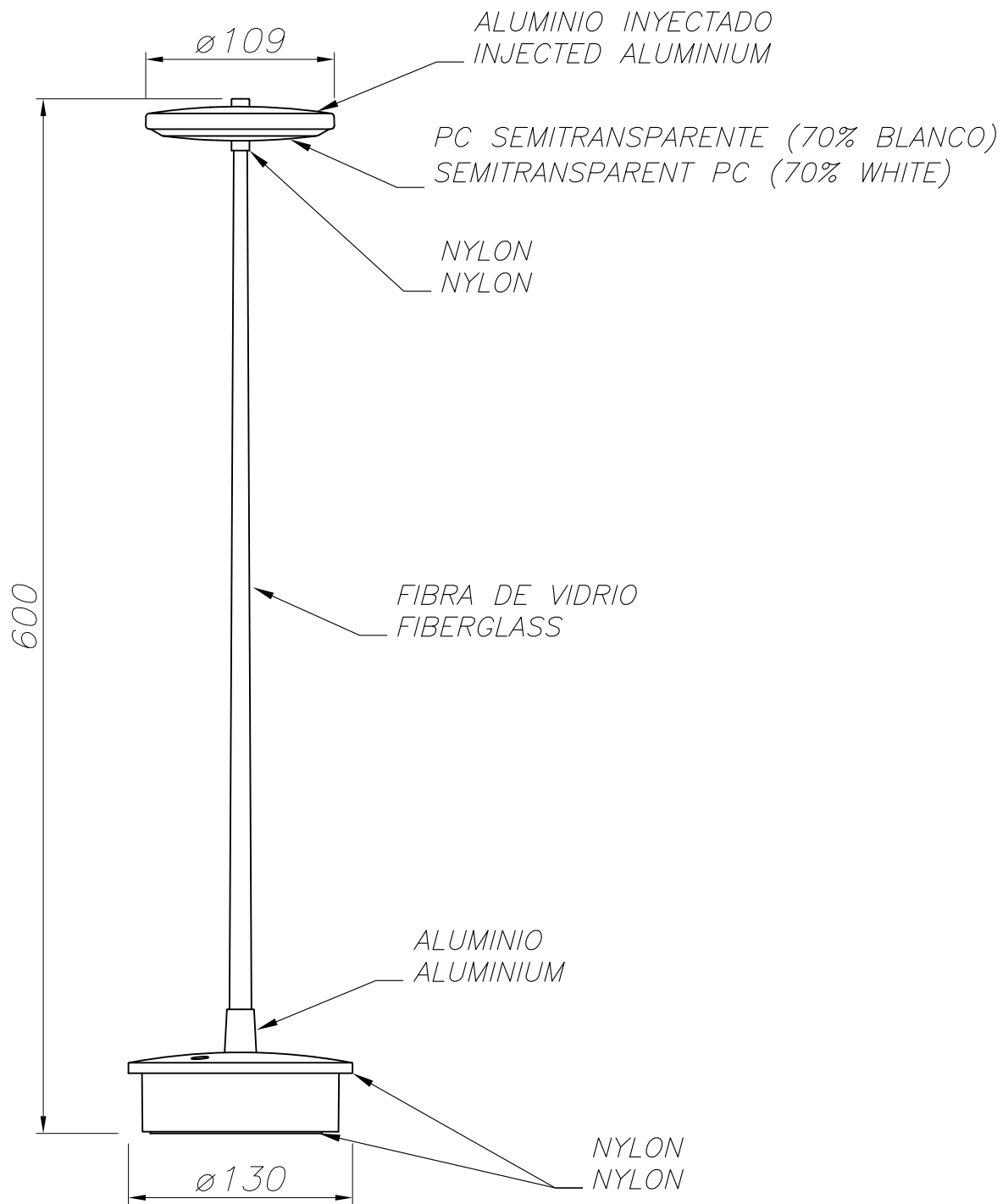
Coordinate system CG

Total Flux 27.00 lm

US ROAD STANDARDS



Luminaire Classification System (LCS)			
LCS Zone		Lumens	%Lamp
FL	0° -- 30°	55.0 lm	203.9 %
FM	30° -- 60°	89.4 lm	330.9 %
FH	60° -- 80°	25.9 lm	95.9 %
FVH	80° -- 90°	1.7 lm	6.5 %
BL	0° -- 30°	52.8 lm	195.7 %
BM	30° -- 60°	79.3 lm	293.9 %
BH	60° -- 80°	19.1 lm	70.7 %
BVH	80° -- 90°	0.6 lm	2.1 %
UL	90° -- 100°	0.0 lm	0.0 %
UH	100° -- 180°	0.0 lm	0.0 %
TOTALS		323.9 lm	1199.6 %
BUG B0 U0 G0 Type II Very Short Asymmetrical			



PLANTILLA DE INSTALACION
INSTALLATION TEMPLATE

