

**TECHNICAL FEATURES**



IP65 IK10



Luminaire total power : 15W

Real lumens : 1300

Real lm/W : 87

Lens / reflector angle : HORIZONTAL 119°

Structure material : Polycarbonate + ABS

Structure finish : Black

Diffuser material : Polycarbonate

Diffuser finish : Opal

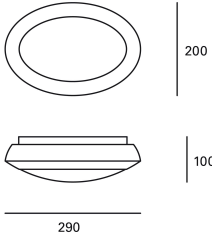
Max. size of light bulb : 150/45 mm

Recommended light bulb : E27

Voltage / frequency : 100-240V ~ 50/60Hz

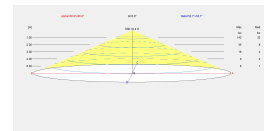
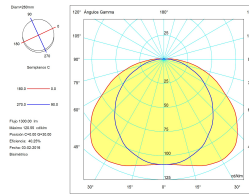
Warranty : 3 Years

Resistant to marine environments : Yes



**LUMINOTECHNIC FEATURES**

Lampholder	Quantity	Light source power (W)	Correlated Colour Temperature (CCT)
E27	1	Max. power 15W	-



**LOGISTICS**

Net weight (kg): 0.71

Packaged weight (kg): 0.93

Packaging: 200mm x 100mm x 290mm



**Luminaire**

Code PX-0142-NEG  
 Name Apliq. FORD1x23W TC-TEL opal

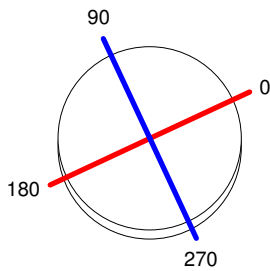
**Measurement**

Code PX-0142-NEG  
 Name Apliq. FORD1x23W TC-TEL opal

Luminaire Flux	523.31 lm	Luminaire Power	23.00 W	Efficacy	22.75 lm/W	Efficiency	40.25%
Lamps Flux	1300.00 lm	Maximum value	156.72 cd	Position	C=0.00 G=30.00	CG	Double Symmetrical
Round Luminaire Round Luminous Area	Diam. 260 mm Diam. 220 mm	Height	95 mm	Height	25 mm		
Horizontal Luminous Area Emitting area on Plane 0° Emitting area on Plane 90°	0.038013 m2 0.005500 m2 0.005500 m2	Emitting area on Plane 180° Emitting area on Plane 270° Glare area at 76°			0.005500 m2 0.005500 m2 0.014533 m2		
Coordinate system Date Measurement Distance	CG 03-02-2016 0.00	Symmetry Type Maximum Gamma Angle Measurement Flux			Double Symmetrical 180 1300.00 lm		
Operator Temperature Humidity Notes	Asselum T2 25.00 °C 60.00 %	Source Voltage [V] Source current [A] Photocell					

Line	Luminaire Lamps					
	Code	Name	Flux [lm]	Pow. [W]	Q.ty	
	PL ELECT pro23W/827	PL ELECT pro23W/827	1300.00	23.00	1	
C.I.E. F UTE	42 74 93 98 40 0.39 E + 0.01 T	D DIN 5040 B NBN	A31 BZ 5			

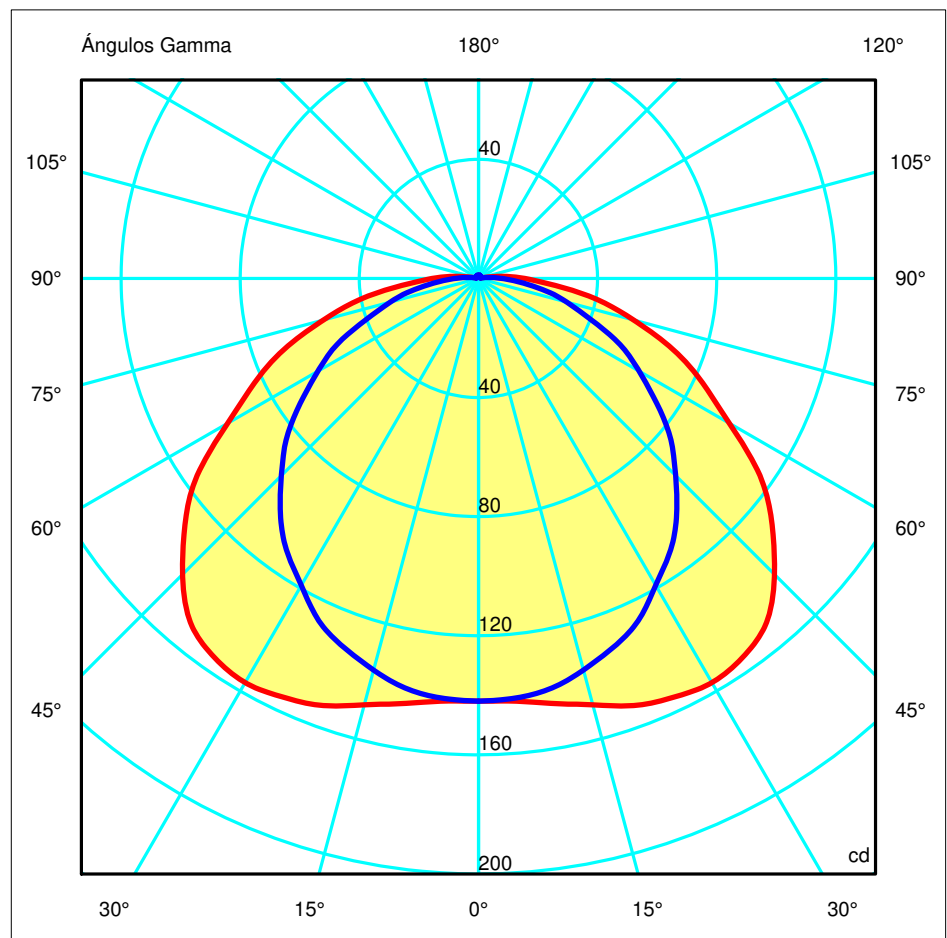
Diam=260mm



Semiplanos C

180.0 — 0.0  
 270.0 — 90.0

ULOR 0.86 %  
 DLOR 39.39 %  
 RN 2.14 %



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**Measuram.**

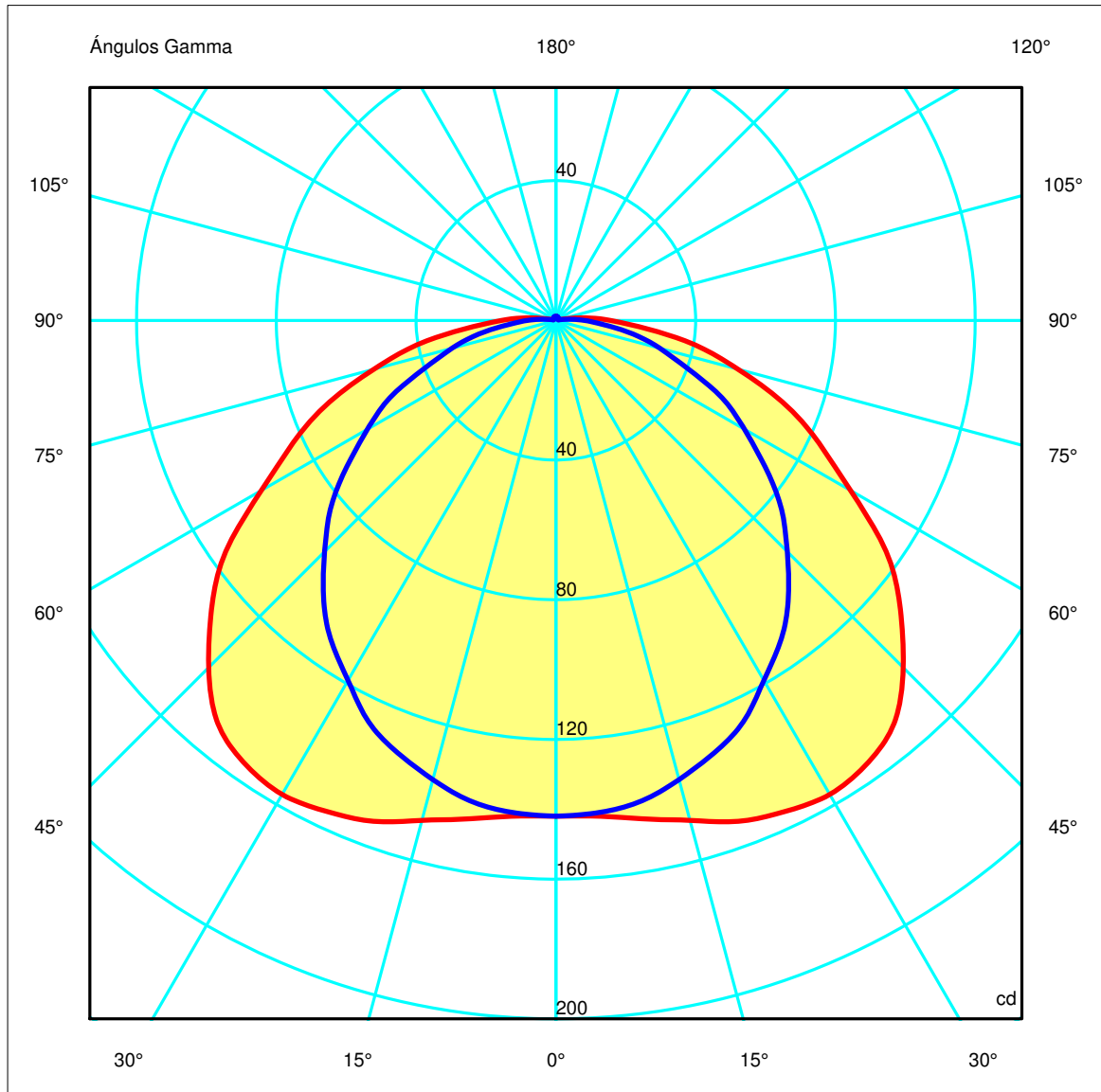
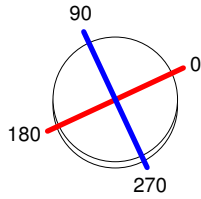
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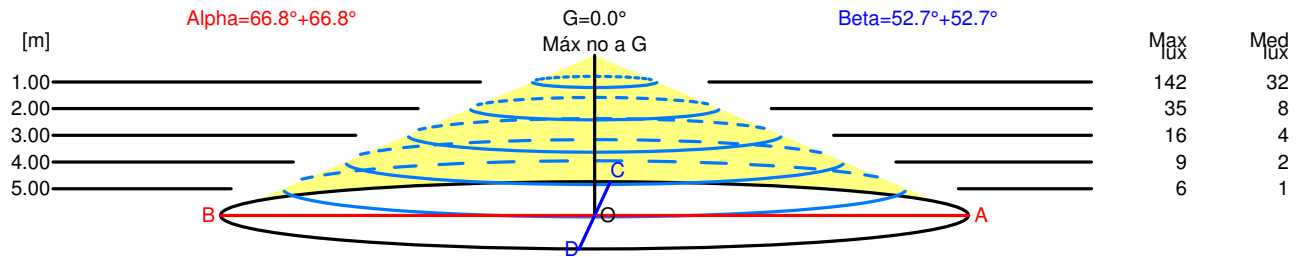
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Width at 50.00 % of Max Intensity

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	2.33	4.67	7.00	9.33	11.66	OC	1.31	2.63	3.94	5.26	6.57
OB	2.33	4.67	7.00	9.33	11.66	OD	1.31	2.63	3.94	5.26	6.57

		Luminous Intensities [ cd ]									
	0	5	15	25	35	45	55	65	75	85	
OA	141.94	142.48	148.20	155.15	155.04	140.51	115.34	83.03	53.90	25.39	
OB	141.94	142.48	148.20	155.15	155.04	140.51	115.34	83.03	53.90	25.39	
OC	141.94	141.43	136.12	126.84	112.08	93.58	73.08	52.44	30.78	13.56	
OD	141.94	141.43	136.12	126.84	112.08	93.58	73.08	52.44	30.78	13.56	



H[m]	D[m]	Max lux	Med lux	Alpha=66.8°+66.8°	G=0.0 Máx no a G	
1.00	4.67	142	32			
2.00	9.33	35	8			
3.00	14.00	16	4			
4.00	18.66	9	2			
5.00	23.33	6	1			

H[m]	D[m]	Max lux	Med lux	Beta=52.7°+52.7°	G=0.0 Máx no a G	
1.00	2.63	142	32			
2.00	5.26	35	8			
3.00	7.88	16	4			
4.00	10.51	9	2			
5.00	13.14	6	1			

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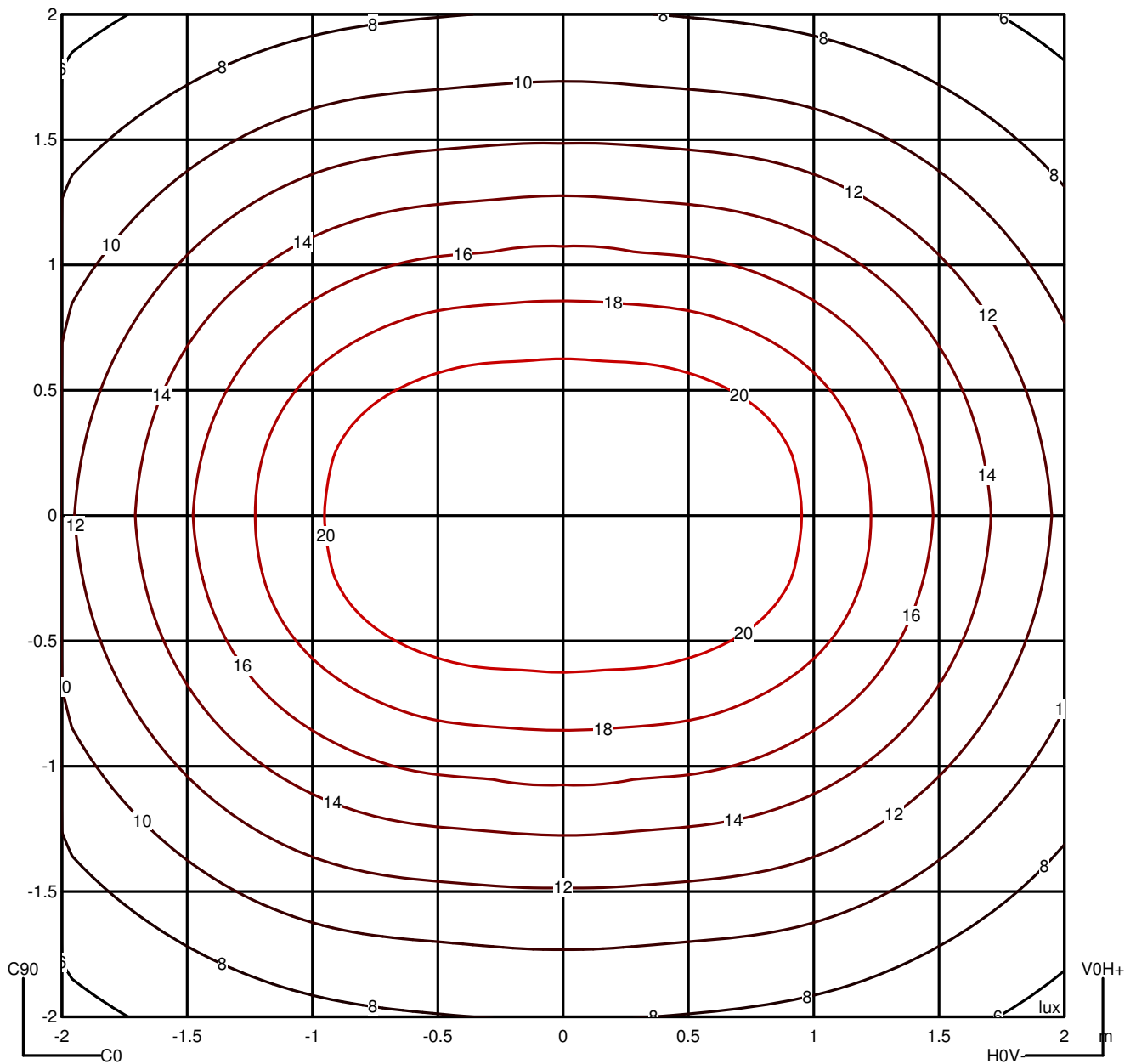
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Isolux (Floor)

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



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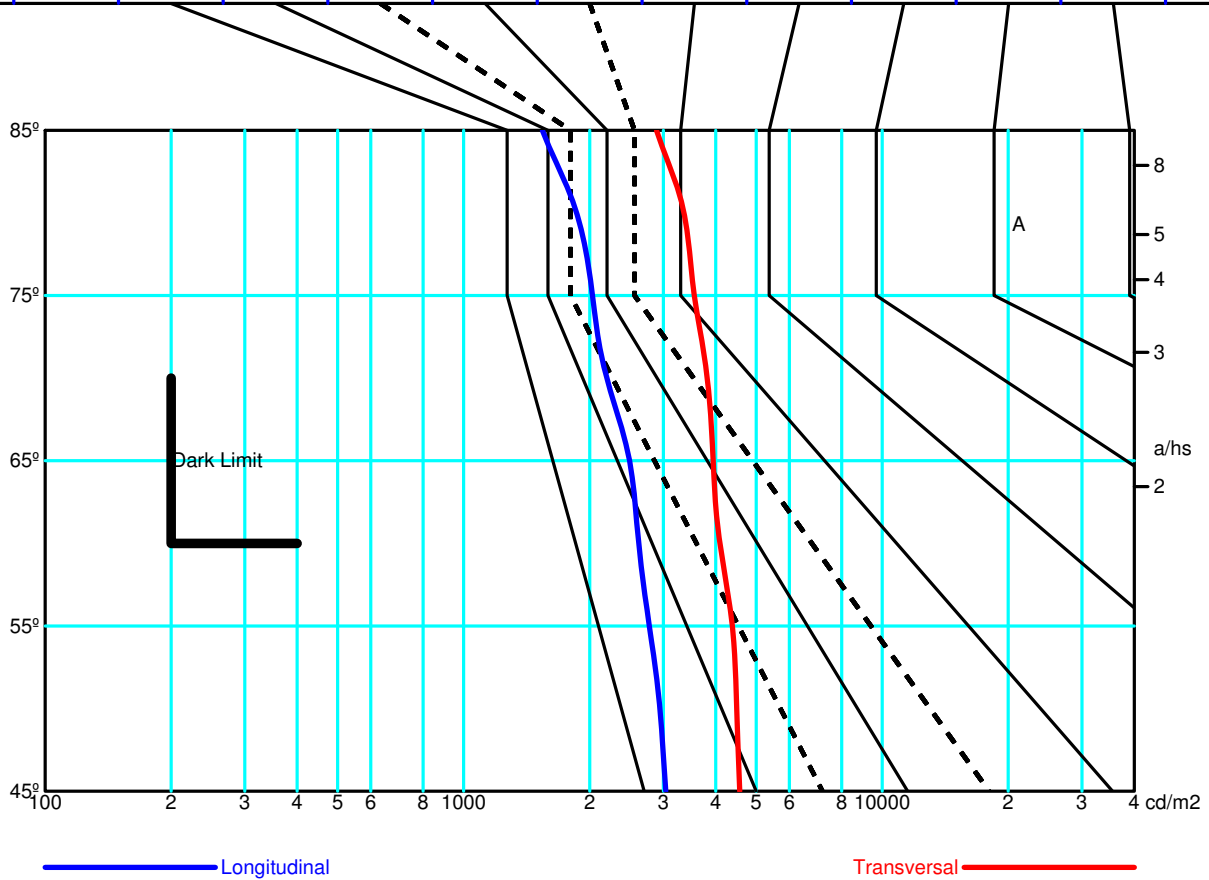
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		Average Luminance [cd/m <sup>2</sup> ]									
		45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°		4567	4492	4384	4093	3944	3820	3557	3361	2888	---
90.0°		3041	2943	2778	2619	2491	2197	2032	1862	1542	---

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**

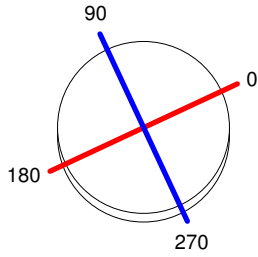
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**Measurem.**

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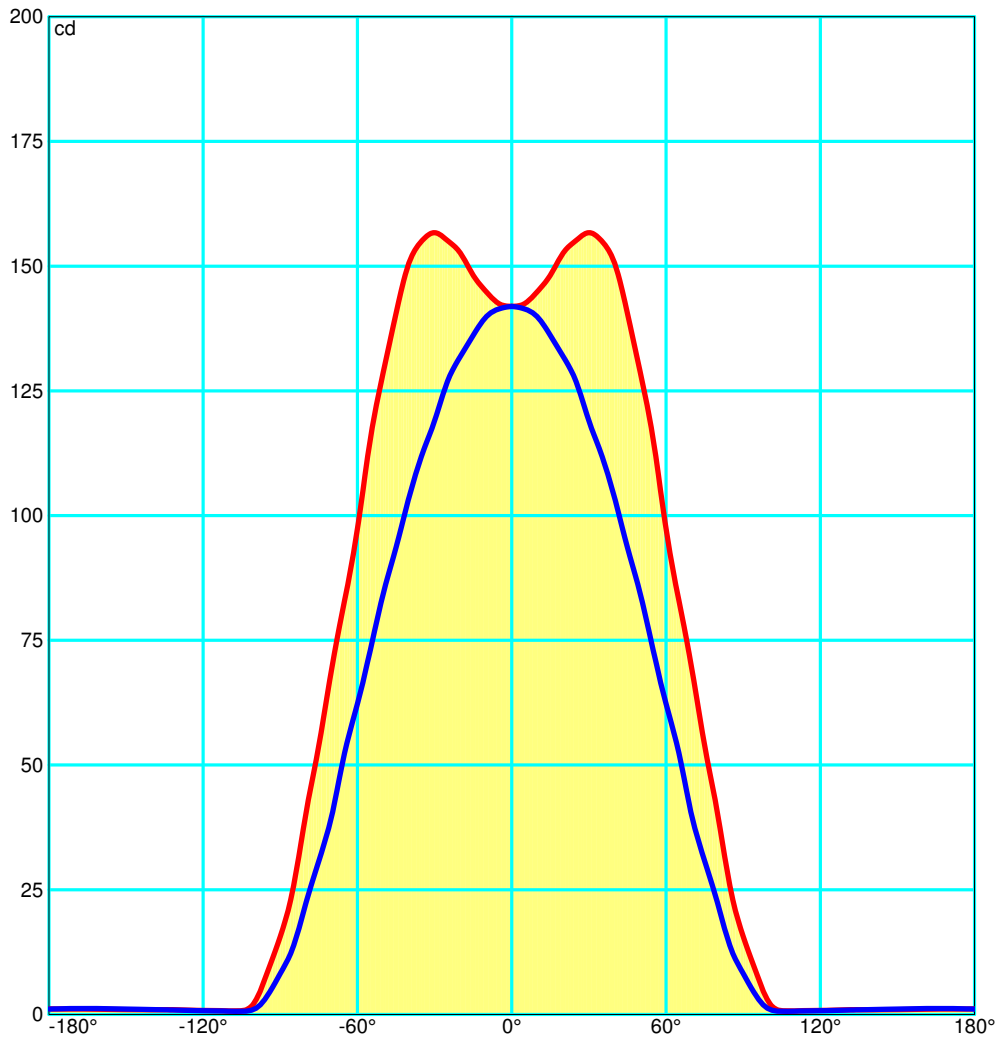
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Diam=260mm



Semiplanos C

180.0 ——— 0.0  
 270.0 ——— 90.0





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**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	17.6	19.0	18.0	19.3	17.7	15.7	17.1	16.1	17.4	17.7
x=2H y=3H	19.5	20.7	19.8	21.0	19.1	17.2	18.4	17.6	18.8	19.1
x=2H y=4H	20.2	21.4	20.6	21.7	19.6	17.8	18.9	18.1	19.3	19.6
x=2H y=6H	21.0	22.0	21.3	22.4	20.1	18.3	19.4	18.7	19.7	20.1
x=2H y=8H	21.2	22.3	21.6	22.6	20.3	18.5	19.5	18.9	19.9	20.3
x=2H y=12H	21.5	22.5	21.9	22.8	20.4	18.6	19.6	19.1	20.0	20.4
x=4H y=2H	18.2	19.4	18.6	19.7	18.7	16.8	18.0	17.2	18.3	18.7
x=4H y=3H	20.2	21.2	20.7	21.6	20.2	18.4	19.4	18.9	19.8	20.2
x=4H y=4H	21.2	22.1	21.6	22.5	20.9	19.1	20.0	19.6	20.4	20.9
x=4H y=6H	22.0	22.8	22.4	23.2	21.4	19.7	20.5	20.2	20.9	21.4
x=4H y=8H	22.3	23.1	22.8	23.5	21.6	20.0	20.7	20.4	21.1	21.6
x=4H y=12H	22.6	23.3	23.1	23.8	21.8	20.2	20.9	20.7	21.3	21.8
x=8H y=4H	21.4	22.1	21.9	22.6	21.3	19.7	20.4	20.1	20.8	21.3
x=8H y=6H	22.4	23.0	22.9	23.5	22.1	20.5	21.1	21.0	21.6	22.1
x=8H y=8H	22.9	23.4	23.4	23.9	22.4	20.8	21.4	21.3	21.8	22.4
x=8H y=12H	23.3	23.7	23.8	24.2	22.6	21.1	21.6	21.6	22.1	22.6
x=12H y=4H	21.4	22.1	21.9	22.6	21.4	19.8	20.5	20.3	20.9	21.4
x=12H y=6H	22.5	23.0	23.0	23.5	22.2	20.6	21.2	21.1	21.6	22.2
x=12H y=8H	23.0	23.4	23.5	23.9	22.5	21.0	21.5	21.5	22.0	22.5

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Flujo Total=1300.00 Flujo Luminaria=523.31

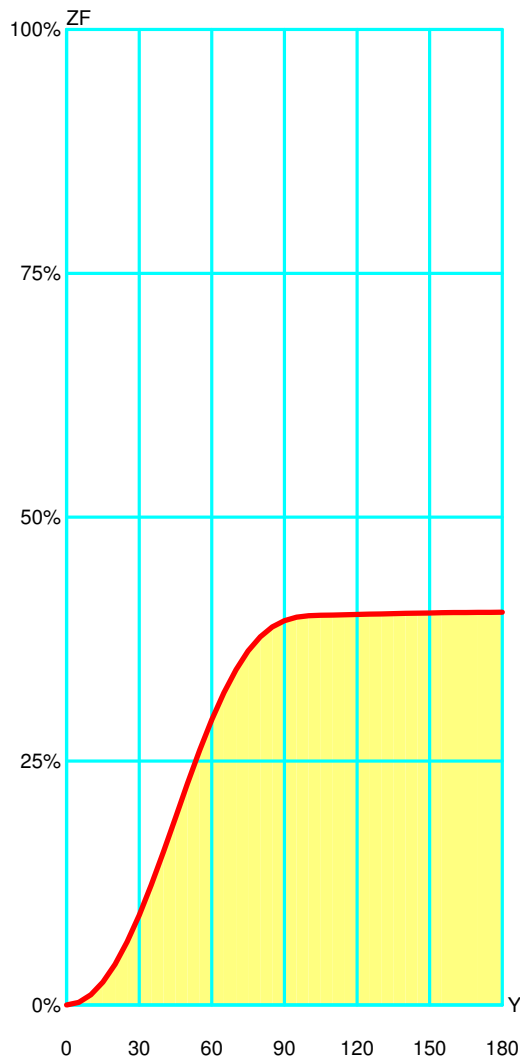
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.27	0.35	0.43	0.50	0.55	0.64	0.70	0.74	0.80	0.83	0.91	0.95
RC	6	6	6	6	6	6	6	6	6	6	6	6

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)	10	42	92	157	227	292	344	377	394	399	400	400	401	401	402	402	402	403

Códigos de Flujo C.I.E.  
42 74 93 98 40

C.I.E.	6	LOR	40.25434 %
D DIN 5040	A31	ULOR	0.86082 %
F UTE	0.39 E + 0.01 T	DLOR	39.39352 %
B NBN	BZ 5	UFF	2.13844 %
RN	2.13844 %	DFF	97.86156 %
BLF	1.0	FFR	2.18517 %



Gamma °	Flujo Zonal			
	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	2.61	2.61	0.65%	0.65 %
10°	7.84	10.45	1.95%	2.60 %
15°	13.04	23.50	3.24%	5.84 %
20°	18.15	41.65	4.51%	10.35 %
25°	23.00	64.65	5.71%	16.06 %
30°	27.38	92.02	6.80%	22.86 %
35°	31.06	123.08	7.72%	30.58 %
40°	33.80	156.89	8.40%	38.97 %
45°	35.25	192.13	8.76%	47.73 %
50°	35.27	227.41	8.76%	56.49 %
55°	33.87	261.28	8.41%	64.91 %
60°	31.16	292.44	7.74%	72.65 %
65°	27.64	320.07	6.87%	79.51 %
70°	23.61	343.69	5.87%	85.38 %
75°	19.16	362.84	4.76%	90.14 %
80°	14.56	377.40	3.62%	93.75 %
85°	10.14	387.54	2.52%	96.27 %
90°	6.39	393.94	1.59%	97.86 %
95°	3.53	397.47	0.88%	98.74 %
100°	1.50	398.97	0.37%	99.11 %
105°	0.49	399.45	0.12%	99.23 %
110°	0.27	399.72	0.07%	99.30 %
115°	0.28	400.00	0.07%	99.37 %
120°	0.28	400.28	0.07%	99.44 %
125°	0.28	400.57	0.07%	99.51 %
130°	0.28	400.85	0.07%	99.58 %
135°	0.27	401.12	0.07%	99.65 %
140°	0.26	401.38	0.06%	99.71 %
145°	0.24	401.62	0.06%	99.77 %
150°	0.23	401.85	0.06%	99.83 %
155°	0.20	402.05	0.05%	99.88 %
160°	0.17	402.22	0.04%	99.92 %
165°	0.14	402.36	0.03%	99.95 %
170°	0.10	402.46	0.03%	99.98 %
175°	0.06	402.52	0.02%	99.99 %
180°	0.02	402.54	0.01%	100.00 %



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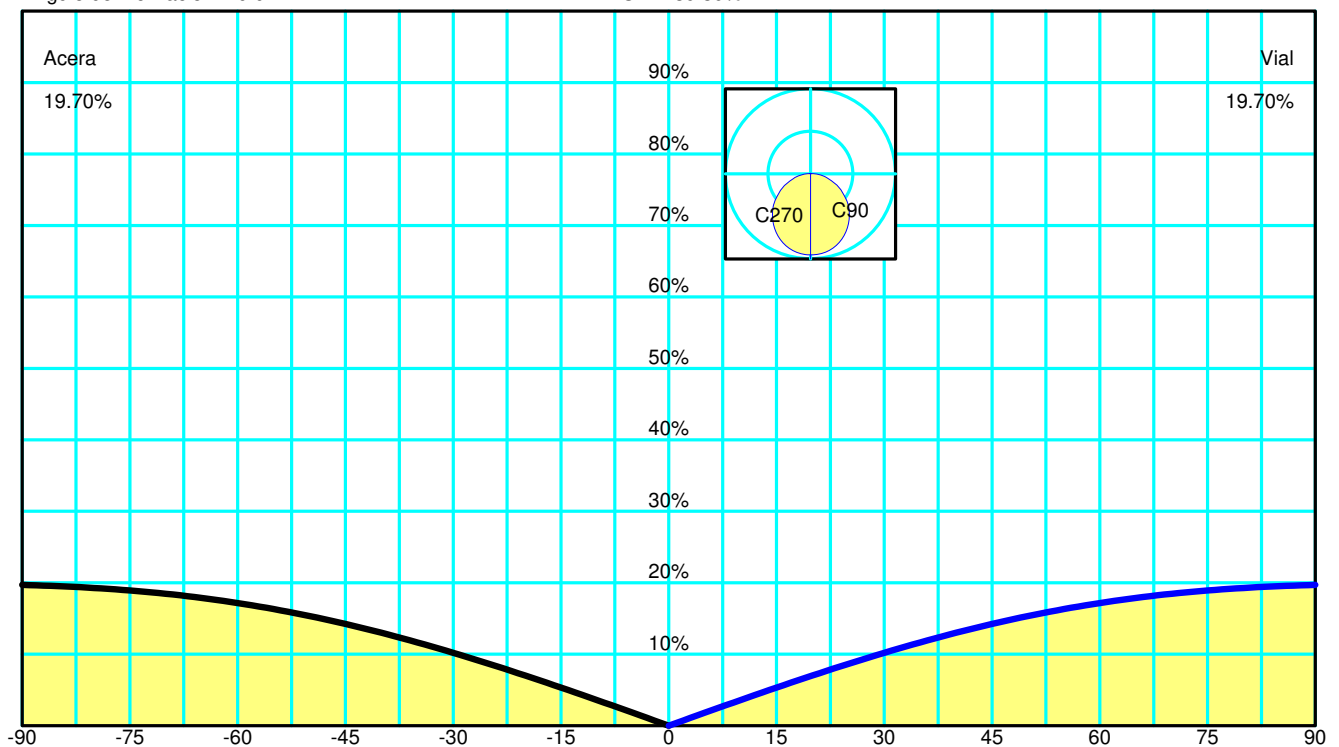
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Pavement			Road		
Piano	0	0.00%	Piano	0	0.00%
Piano	-5	1.80%	Piano	5	1.80%
Piano	-10	3.58%	Piano	10	3.58%
Piano	-15	5.33%	Piano	15	5.33%
Piano	-20	7.02%	Piano	20	7.02%
Piano	-25	8.65%	Piano	25	8.65%
Piano	-30	10.20%	Piano	30	10.20%
Piano	-35	11.65%	Piano	35	11.65%
Piano	-40	13.00%	Piano	40	13.00%
Piano	-45	14.24%	Piano	45	14.24%
Piano	-50	15.34%	Piano	50	15.34%
Piano	-55	16.32%	Piano	55	16.32%
Piano	-60	17.16%	Piano	60	17.16%
Piano	-65	17.88%	Piano	65	17.88%
Piano	-70	18.46%	Piano	70	18.46%
Piano	-75	18.92%	Piano	75	18.92%
Piano	-80	19.27%	Piano	80	19.27%
Piano	-85	19.52%	Piano	85	19.52%
Piano	-90	19.70%	Piano	90	19.70%

Ángulo de Inclinación = 0.0

DLOR = 39.39%



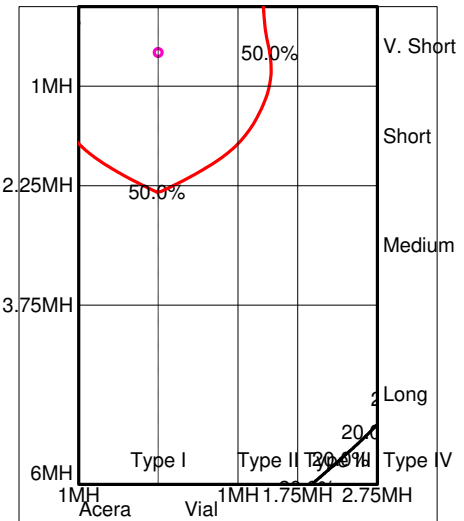
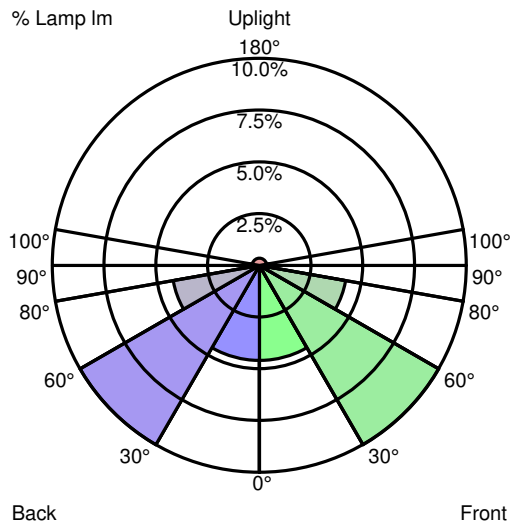
Spread	23.8° Estrecho	DLOR	39.39352 %
Throw	22.4° Corto	ULOR	0.86082 %
SLI (deslumbramiento)	Concentrado	Rendimiento	40.25434 %
Cutoff CIE	Semi Cutoff - Max: C=0.0° Gamma=30.0°	RN	2.13844 %
Cutoff lesna	Cutoff	Clase de Intensidad Luminosa	G3
DIN5044	KB2	Índice de Deslumbramiento	D6

IESNA Type II Very Short Asymmetrical

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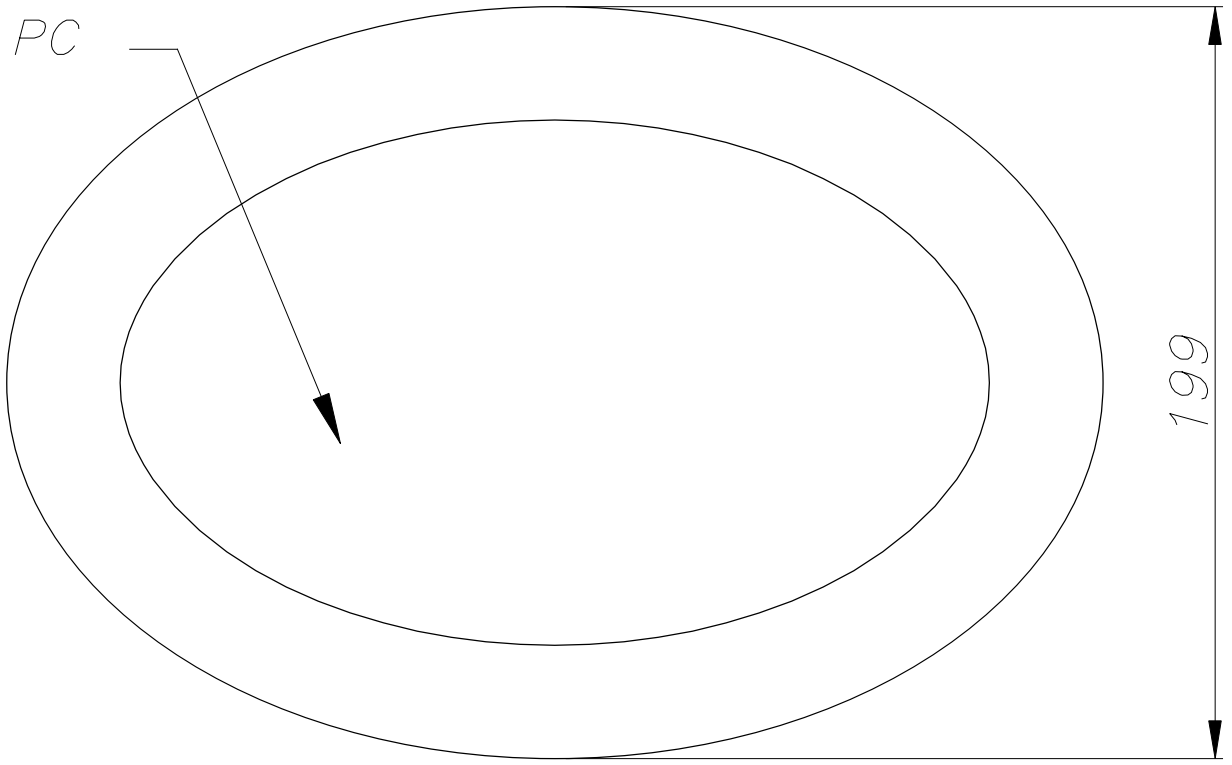
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US ROAD STANDARDS

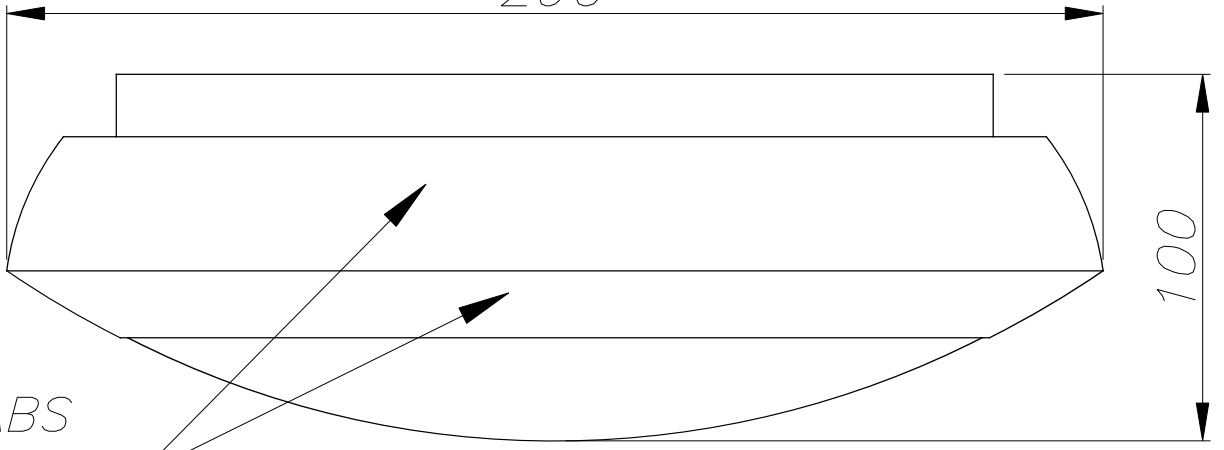


Luminaire Classification System (LCS)			
LCS Zone		Lumens	%Lamp %Lum
FL	0° -- 30°	59.9 lm	4.6 % 11.4 %
FM	30° -- 60°	130.5 lm	10.0 % 24.9 %
FH	60° -- 80°	55.2 lm	4.2 % 10.5 %
FVH	80° -- 90°	10.6 lm	0.8 % 2.0 %
BL	0° -- 30°	59.9 lm	4.6 % 11.4 %
BM	30° -- 60°	130.5 lm	10.0 % 24.9 %
BH	60° -- 80°	55.2 lm	4.2 % 10.5 %
BVH	80° -- 90°	10.6 lm	0.8 % 2.0 %
UL	90° -- 100°	6.3 lm	0.5 % 1.2 %
UH	100° -- 180°	4.6 lm	0.4 % 0.9 %
<b>TOTALS</b>		<b>523.3 lm</b>	<b>40.3 % 100.0 %</b>
BUG B0 U1 G1 Type II Very Short Asymmetrical			

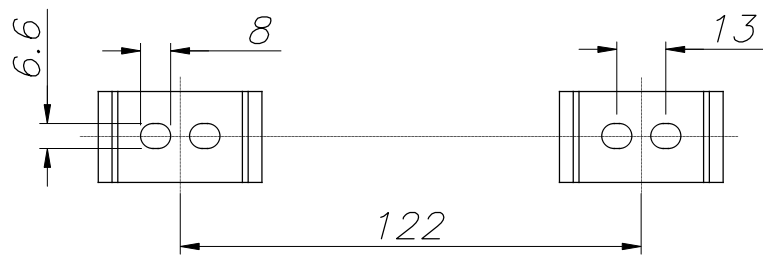
PC OPAL  
OPAL PC



290



PC+ABS  
PC+ABS



PLANTILLA DE INSTALACIÓN  
INSTALLATION TEMPLATE

