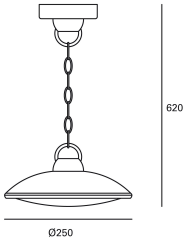
FOR LIGHT

Pergola

PX-0105-BLA

Pendant IP44 Pergola LED 7.5W LED warm-white 3000K ON-OFF White 533lm





TECHNICAL FEATURES

IP44 IK08

Luminaire total power : 7.5W

Real lumens : 533

Nominal lumens : 1020

Real lm/W : 71

Lens / reflector angle : HORIZONTAL 114°

UGR : <=22

Structure material : Aluminium

Structure finish : White

Diffuser material : Polycarbonate

Diffuser finish : Opal

Voltage / frequency : 220-240V/50-60Hz

Dimming protocol : ON-OFF

Useful life : 36.000h L70B30

Warranty : 3 Years

Easily recyclable luminaire

LUMINOTECHNIC FEATURES

CRI: 80

MacAdam steps: 3

Photobiological risk: RG0

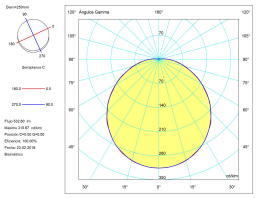
UGR

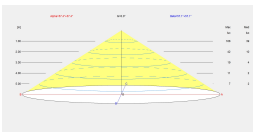
UGR crosswise: 21.0

UGR lengthwise: 21.0

Lampholder	Quantity	Light source power (W)	Correlated Colour Temperature (CCT)
LED	1	7.5W	3000K

UGR	
S=0.250	
Ceiling / cavity	0.7
Walls	0.5
Working Plane	0.2
Room dimensions	X=4H, Y=8H
UGR crosswise	21.0
UGR lengthwise	21.0





LOGISTICS

Net weight (kg): 1.08

Packaged weight (kg): 1.57

Packaging: 260mm x 260mm x 190mm

6 Un

LIGHT APPLICATION



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 PX-0105-BLA
Name Colgante PERGOLA 49 leds 9.8W
Measurem.
Code PX-0105-BLA
Name Colgante PERGOLA 49 leds 9.8W

Luminaire Flux	532.60 lm	Luminaire Power	9.00 W	Efficacy	59.18 lm/W	Efficiency	100.00%
Lamps Flux	532.60 lm	Maximum value	168.13 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

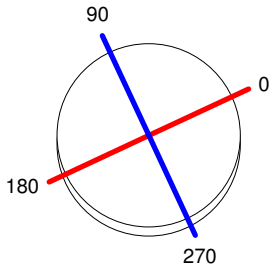
Round Luminaire	Diam. 250 mm	Height	100 mm
Round Luminous Area	Diam. 205 mm	Height	30 mm
Horizontal Luminous Area	0.033006 m2	Emitting area on Plane 180°	0.006150 m2
Emitting area on Plane 0°	0.006150 m2	Emitting area on Plane 270°	0.006150 m2
Emitting area on Plane 90°	0.006150 m2	Glare area at 76°	0.013952 m2
Coordinate system	CG	Symmetry Type	Double Symmetrical
Date	23-02-2016	Maximum Gamma Angle	180
Measurement Distance	0.00	Measurement Flux	532.60 lm
Operator	Asselum T2	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
	PX-0105-BLA	PX-0105-BLA - 9.00 W	532.60	9.00	1

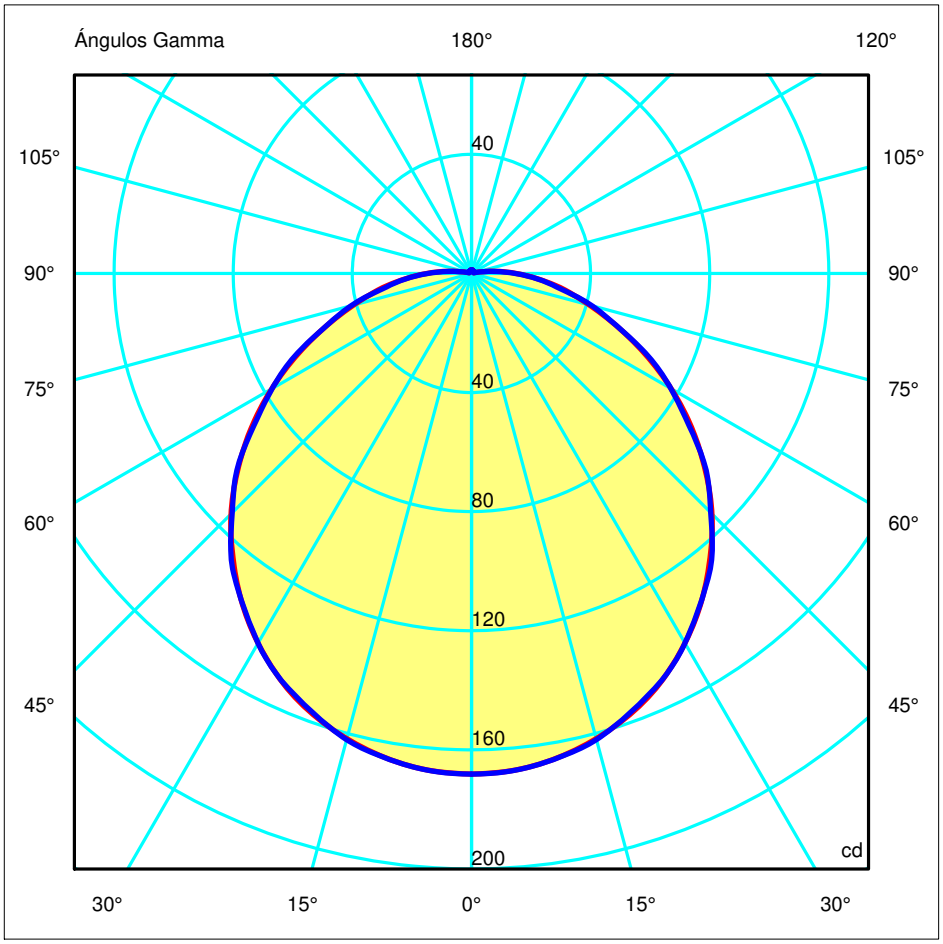
C.I.E.	44 74 92 97 100	D DIN 5040	A31
F UTE	0.97 E + 0.03 T	B NBN	BZ 5

Diam=250mm



Semiplanos C

180.0 — 0.0
270.0 — 90.0



ULOR	2.91 %
DLOR	97.09 %
RN	2.91 %

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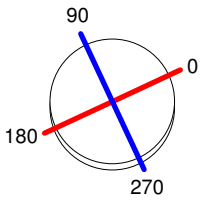
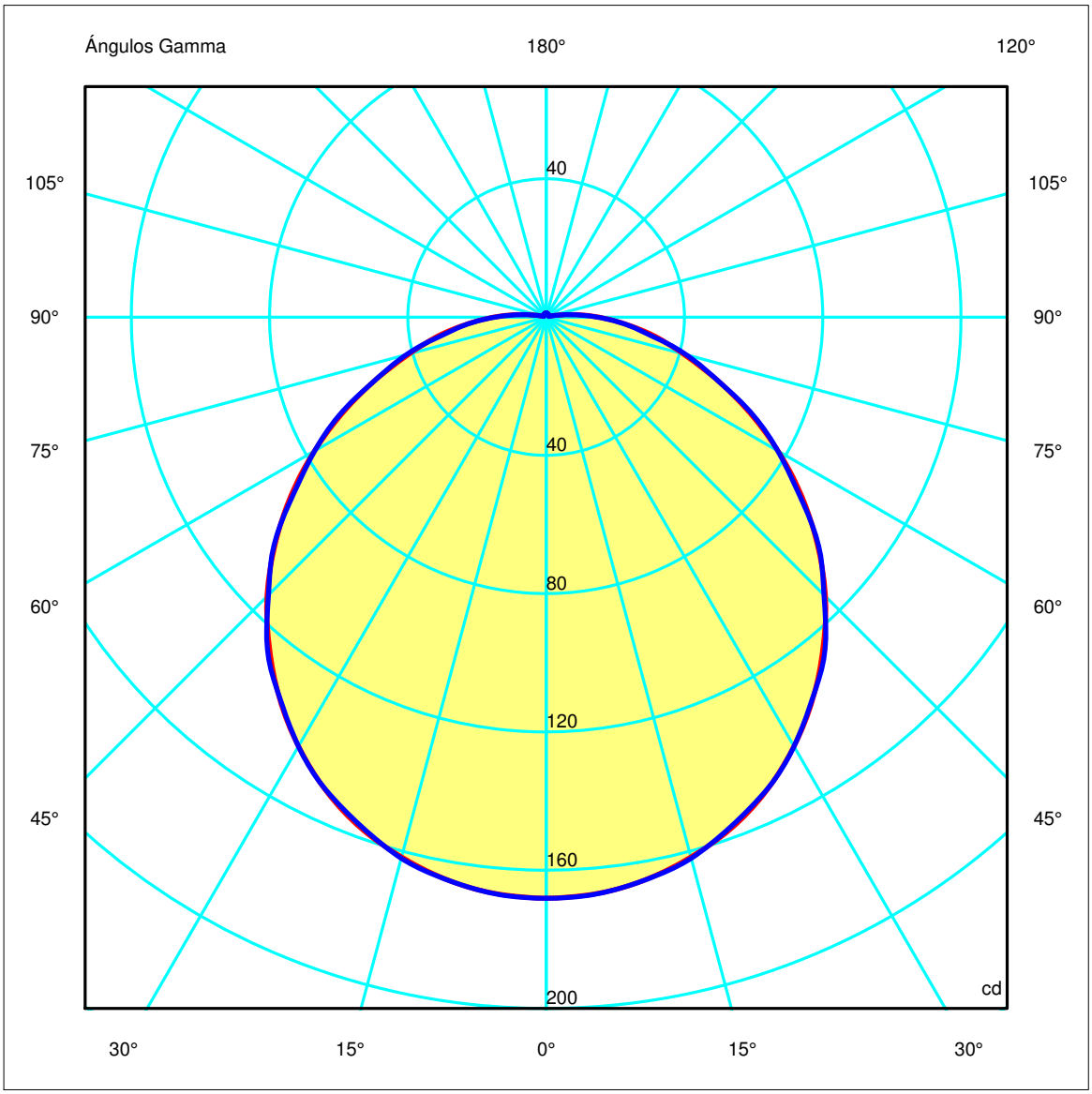
Diam=250mm



Semiplanos C

180.0 0.0
270.0 90.0



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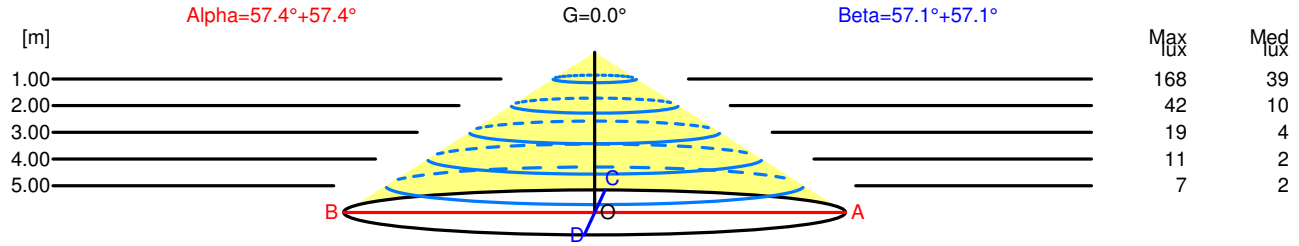
Width at 50.00 % of Max Intensity

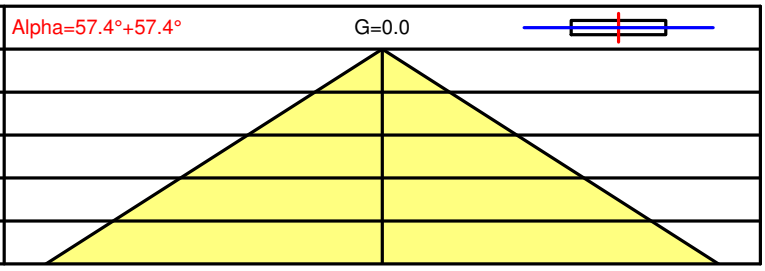
H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	1.57	3.13	4.70	6.26	7.83	OC	1.54	3.09	4.63	6.18	7.72
OB	1.57	3.13	4.70	6.26	7.83	OD	1.54	3.09	4.63	6.18	7.72

Luminous Intensities [cd]

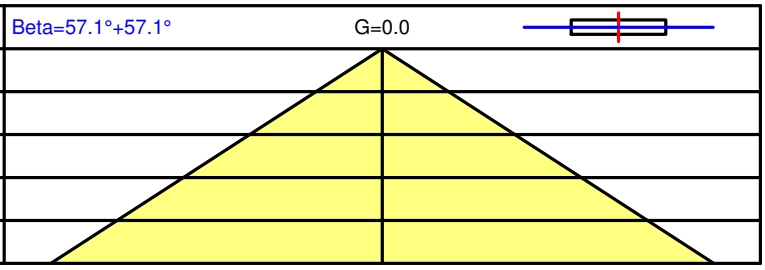
	0	5	15	25	35	45	55	65	75	85
OA	168.13	167.39	161.67	150.99	134.55	114.20	90.23	64.59	40.94	22.99
OB	168.13	167.39	161.67	150.99	134.55	114.20	90.23	64.59	40.94	22.99
OC	168.13	167.48	162.07	150.89	134.42	113.60	89.28	65.34	41.93	22.82
OD	168.13	167.48	162.07	150.89	134.42	113.60	89.28	65.34	41.93	22.82



H[m]	D[m]	Max lux	Med lux
1.00	3.13	168	39
2.00	6.26	42	10
3.00	9.39	19	4
4.00	12.52	11	2
5.00	15.65	7	2



H[m]	D[m]	Max lux	Med lux
1.00	3.09	168	39
2.00	6.18	42	10
3.00	9.27	19	4
4.00	12.35	11	2
5.00	15.44	7	2



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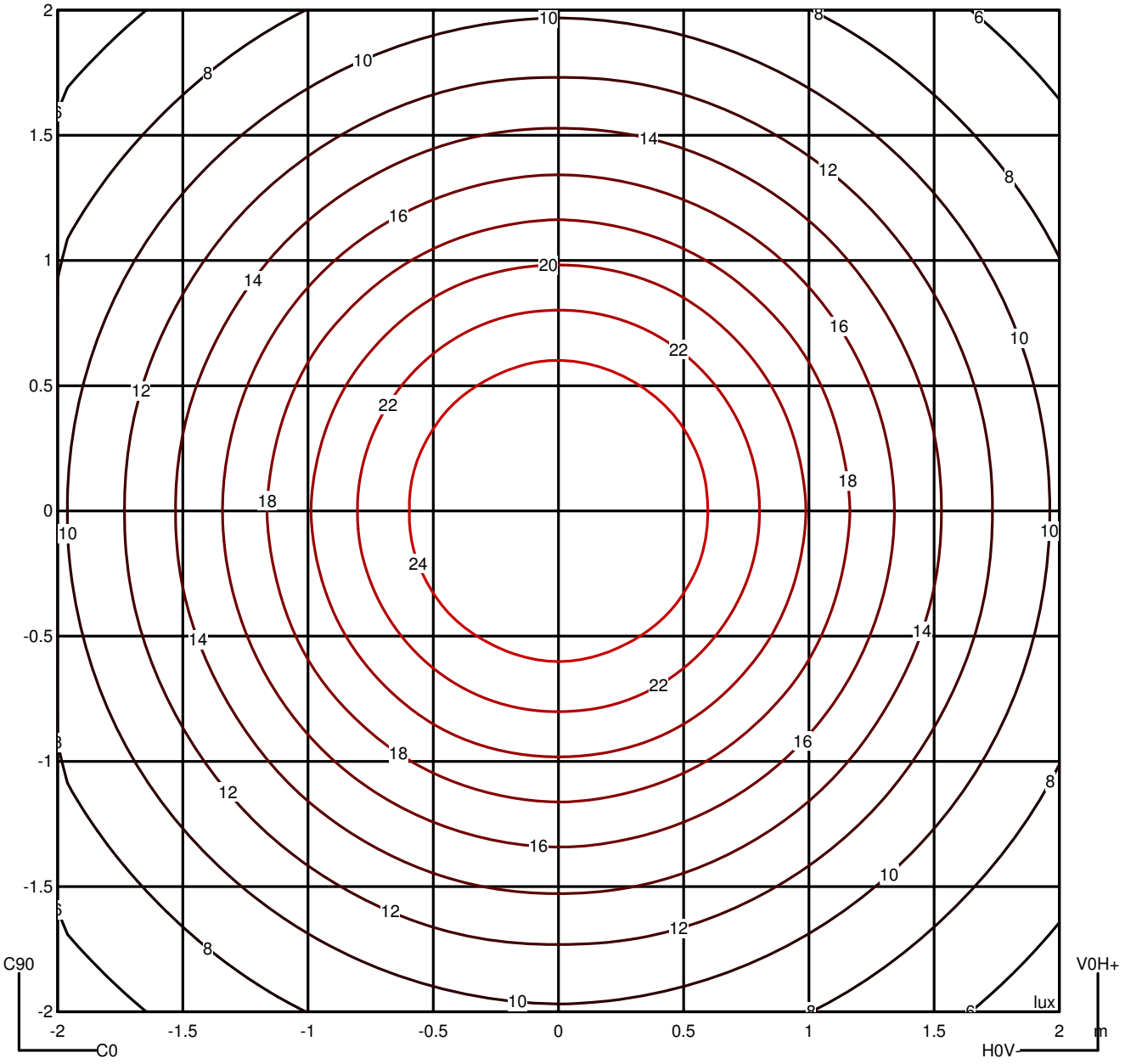
Lamps Flux	532.60 lm	Maximum value	168.13 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Isolux (Floor)

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



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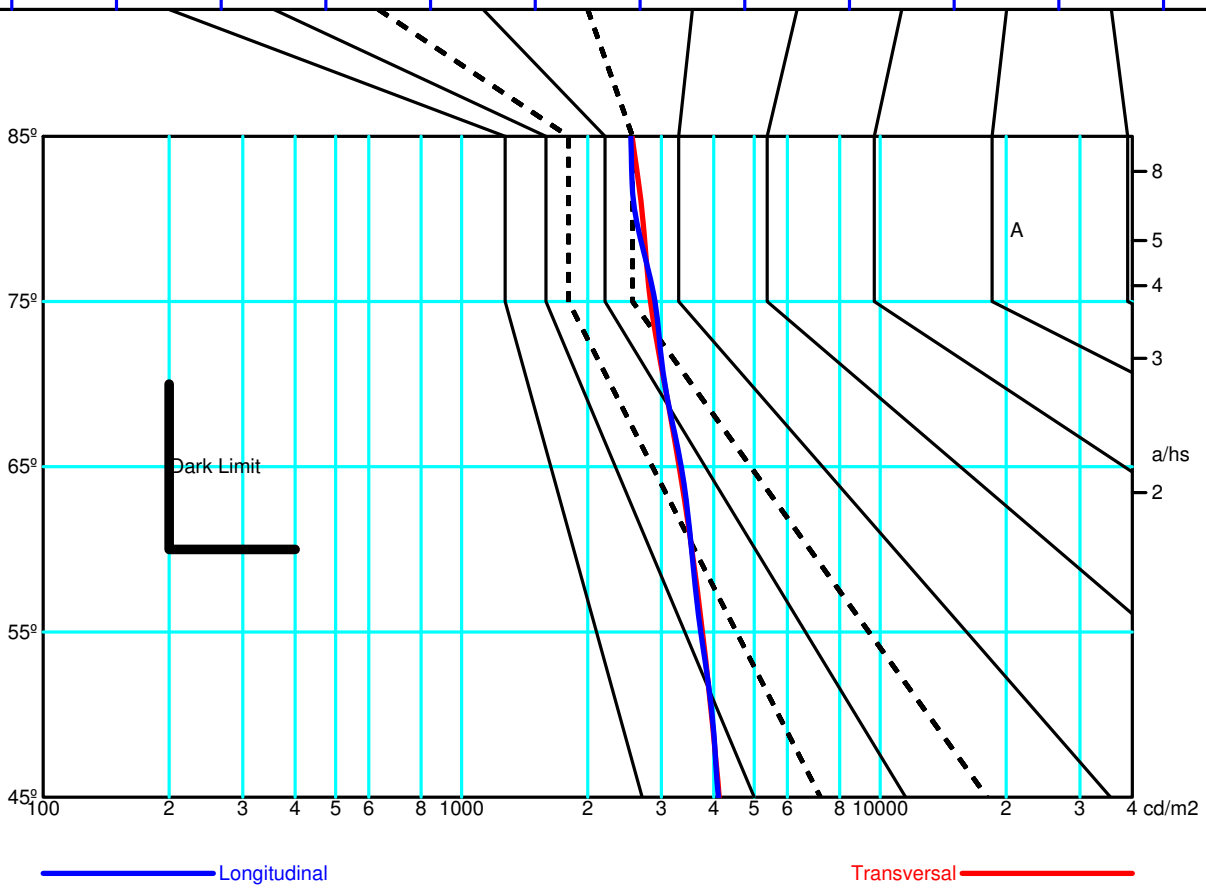
Average Luminance [cd/m²]

	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	4125	3950	3765	3546	3309	3054	2827	2709	2554	---
90.0°	4103	3967	3725	3541	3347	3057	2895	2611	2535	---

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



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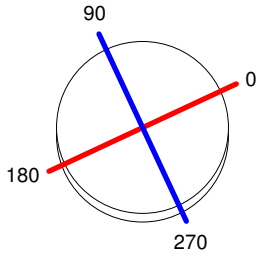
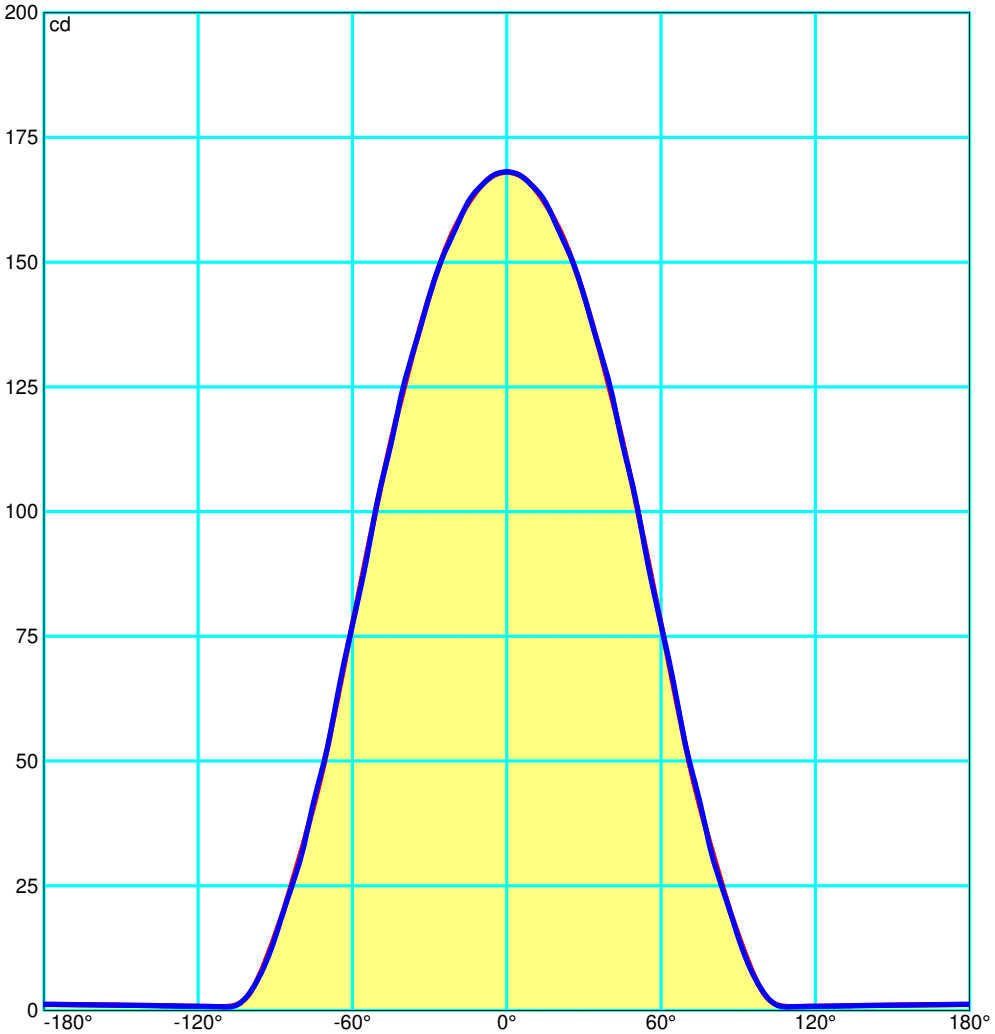
Diam=250mm



Semiplanos C





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Lamps Flux	532.60 lm	Maximum value	168.13 cd	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	16.8	18.1	17.1	18.4	18.7	16.8	18.1	17.1	18.4	18.7
x=2H y=3H	18.4	19.6	18.8	19.9	20.3	18.4	19.6	18.8	19.9	20.3
x=2H y=4H	19.1	20.3	19.5	20.6	21.0	19.1	20.3	19.5	20.6	21.0
x=2H y=6H	19.8	20.8	20.2	21.2	21.6	19.8	20.8	20.2	21.2	21.6
x=2H y=8H	20.1	21.1	20.5	21.5	21.8	20.0	21.1	20.5	21.5	21.8
x=2H y=12H	20.3	21.3	20.7	21.7	22.1	20.3	21.3	20.7	21.7	22.1
x=4H y=2H	17.5	18.7	17.9	19.0	19.3	17.5	18.6	17.9	19.0	19.3
x=4H y=3H	19.3	20.3	19.7	20.7	21.1	19.3	20.3	19.8	20.7	21.1
x=4H y=4H	20.2	21.1	20.6	21.5	21.9	20.2	21.1	20.6	21.5	21.9
x=4H y=6H	21.0	21.8	21.5	22.2	22.7	21.0	21.8	21.5	22.2	22.7
x=4H y=8H	21.4	22.1	21.8	22.5	23.0	21.3	22.1	21.8	22.5	23.0
x=4H y=12H	21.7	22.4	22.2	22.8	23.3	21.7	22.3	22.2	22.8	23.3
x=8H y=4H	20.6	21.3	21.1	21.8	22.2	20.6	21.3	21.1	21.8	22.2
x=8H y=6H	21.6	22.2	22.1	22.7	23.2	21.6	22.2	22.1	22.7	23.2
x=8H y=8H	22.1	22.6	22.6	23.1	23.6	22.1	22.6	22.6	23.1	23.6
x=8H y=12H	22.5	23.0	23.1	23.5	24.1	22.5	23.0	23.0	23.5	24.1
x=12H y=4H	20.6	21.3	21.1	21.8	22.3	20.6	21.3	21.1	21.8	22.3
x=12H y=6H	21.7	22.2	22.2	22.7	23.3	21.7	22.2	22.2	22.7	23.3
x=12H y=8H	22.2	22.7	22.8	23.2	23.8	22.2	22.7	22.8	23.2	23.8

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Lamps Flux	532.60 lm	Maximum value	168.13 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Flujo Total=532.60 Flujo Luminaria=532.60

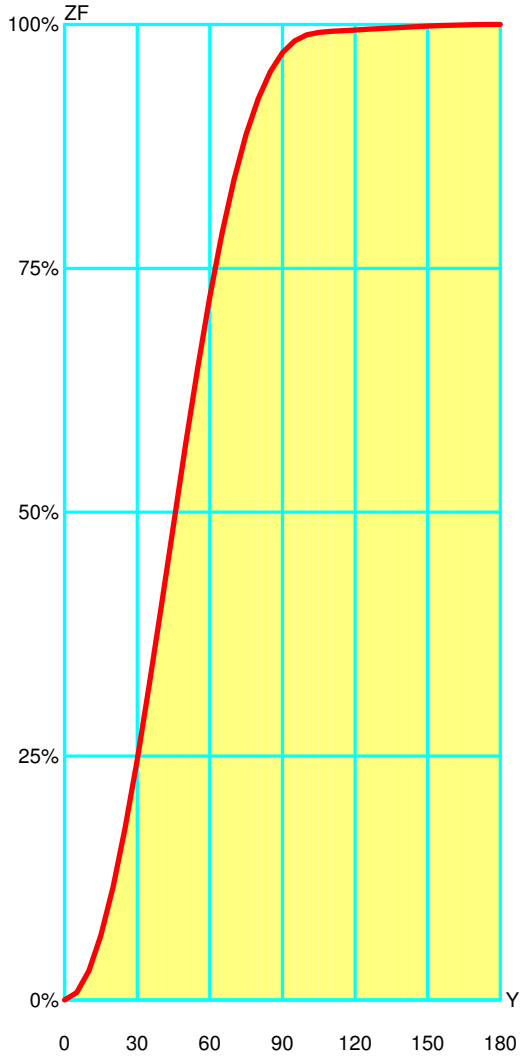
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.28	0.37	0.44	0.51	0.56	0.64	0.70	0.74	0.80	0.83	0.90	0.95
RC	5	5	6	6	6	6	6	6	6	6	6	6

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)	30	116	246	404	569	721	841	924	971	989	993	994	996	997	998	999	1000	1000

Códigos de Flujo C.I.E.
44 74 92 97 100

C.I.E.	5/5/6/6/6/6/6/6/6/6/6	LOR	99.99944 %
D DIN 5040	A31	ULOR	2.91390 %
F UTE	0.97 E + 0.03 T	DLOR	97.08554 %
B NBN	BZ 5	UFF	2.91392 %
RN	2.91392 %	DFF	97.08608 %
BLF	1.0	FFR	3.00137 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	7.53	7.53	0.75 %	0.75 %
10°	22.36	29.89	2.24 %	2.99 %
15°	36.44	66.33	3.64 %	6.63 %
20°	49.33	115.66	4.93 %	11.57 %
25°	60.58	176.25	6.06 %	17.63 %
30°	69.86	246.11	6.99 %	24.61 %
35°	76.87	322.97	7.69 %	32.30 %
40°	81.28	404.25	8.13 %	40.43 %
45°	83.08	487.33	8.31 %	48.73 %
50°	82.12	569.45	8.21 %	56.94 %
55°	78.52	647.97	7.85 %	64.80 %
60°	72.61	720.58	7.26 %	72.06 %
65°	64.78	785.36	6.48 %	78.54 %
70°	55.77	841.13	5.58 %	84.11 %
75°	46.10	887.23	4.61 %	88.72 %
80°	36.61	923.84	3.66 %	92.38 %
85°	27.63	951.48	2.76 %	95.15 %
90°	19.38	970.86	1.94 %	97.09 %
95°	12.15	983.00	1.21 %	98.30 %
100°	6.26	989.26	0.63 %	98.93 %
105°	2.55	991.81	0.25 %	99.18 %
110°	1.02	992.82	0.10 %	99.28 %
115°	0.71	993.54	0.07 %	99.35 %
120°	0.72	994.26	0.07 %	99.43 %
125°	0.72	994.98	0.07 %	99.50 %
130°	0.71	995.69	0.07 %	99.57 %
135°	0.69	996.38	0.07 %	99.64 %
140°	0.66	997.05	0.07 %	99.71 %
145°	0.62	997.67	0.06 %	99.77 %
150°	0.57	998.24	0.06 %	99.82 %
155°	0.51	998.74	0.05 %	99.88 %
160°	0.43	999.18	0.04 %	99.92 %
165°	0.35	999.52	0.03 %	99.95 %
170°	0.26	999.78	0.03 %	99.98 %
175°	0.16	999.94	0.02 %	99.99 %
180°	0.05	999.99	0.01 %	100.00 %

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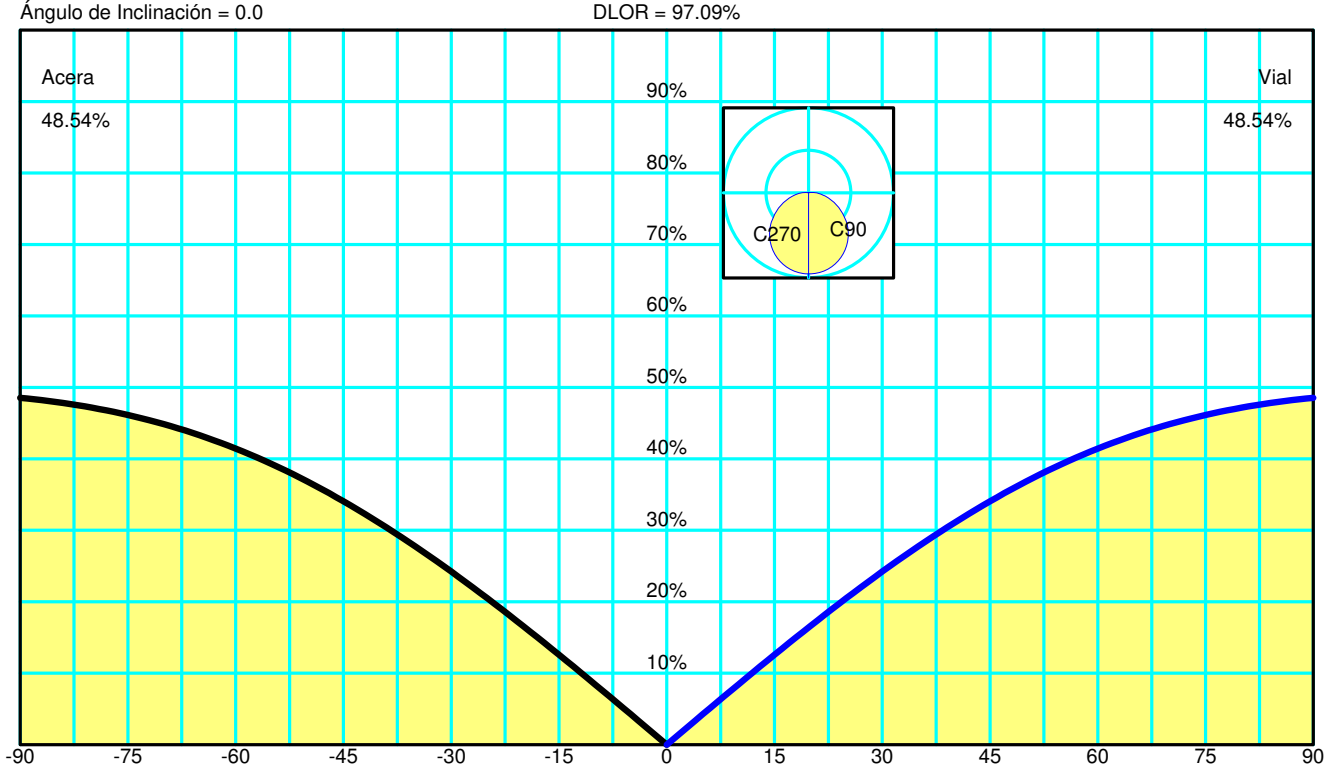
Pavement		
Piano	0	0.00%
Piano	-5	4.24%
Piano	-10	8.45%
Piano	-15	12.58%
Piano	-20	16.61%
Piano	-25	20.50%
Piano	-30	24.22%
Piano	-35	27.74%
Piano	-40	31.03%
Piano	-45	34.06%
Piano	-50	36.82%
Piano	-55	39.28%
Piano	-60	41.44%
Piano	-65	43.29%
Piano	-70	44.86%
Piano	-75	46.13%
Piano	-80	47.16%
Piano	-85	47.96%
Piano	-90	48.54%

Road		
Piano	0	0.00%
Piano	5	4.24%
Piano	10	8.45%
Piano	15	12.58%
Piano	20	16.61%
Piano	25	20.50%
Piano	30	24.22%
Piano	35	27.74%
Piano	40	31.03%
Piano	45	34.06%
Piano	50	36.82%
Piano	55	39.28%
Piano	60	41.44%
Piano	65	43.29%
Piano	70	44.86%
Piano	75	46.13%
Piano	80	47.16%
Piano	85	47.96%
Piano	90	48.54%

Ángulo de Inclinación = 0.0

DLOR = 97.09%



Spread	24.6°	Estrecho		DLOR	97.08554 %
Throw	12.4°	Corto		ULOR	2.91390 %
SLI (deslumbramiento)	7.1	Concentrado		Rendimiento	99.99944 %
Cutoff CIE	Semi Cutoff	-	Max: C=0.0° Gamma=0.0°	RN	2.91392 %
Cutoff Iesna	Semi Cutoff			Clase de Intensidad Luminosa	G2
DIN5044	KB2			Índice de Deslumbramiento	D6

IESNA Type V Very Short Quadrilateral Symmetry

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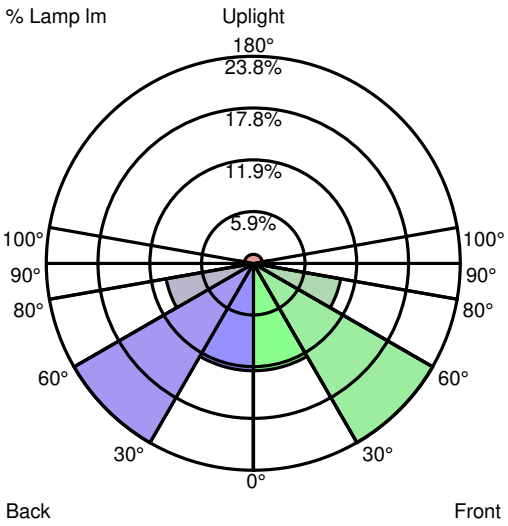
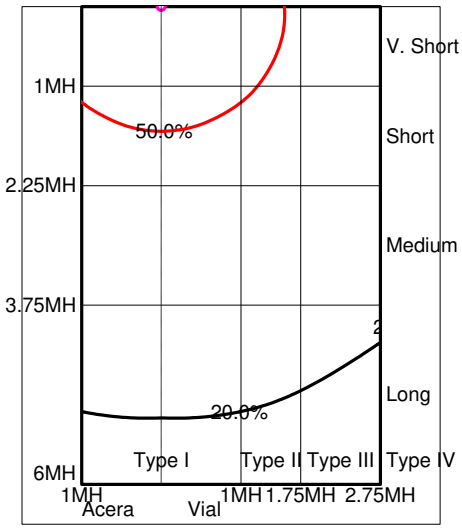
Code PX-0105-BLA
Name Colgante PERGOLA 49 leds 9.8W

Luminaire Flux	532.60 lm	Luminaire Power	9.00 W	Efficacy	59.18 lm/W	Efficiency	100.00%
Lamps Flux	532.60 lm	Maximum value	168.13 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

US ROAD STANDARDS





Luminaire Classification System (LCS)				
LCS Zone		Lumens	%Lamp	%Lum
FL	0° -- 30°	65.6 lm	12.3 %	12.3 %
FM	30° -- 60°	126.5 lm	23.8 %	23.8 %
FH	60° -- 80°	54.1 lm	10.2 %	10.2 %
FVH	80° -- 90°	12.5 lm	2.3 %	2.3 %
BL	0° -- 30°	65.6 lm	12.3 %	12.3 %
BM	30° -- 60°	126.5 lm	23.8 %	23.8 %
BH	60° -- 80°	54.1 lm	10.2 %	10.2 %
BVH	80° -- 90°	12.5 lm	2.3 %	2.3 %
UL	90° -- 100°	9.7 lm	1.8 %	1.8 %
UH	100° -- 180°	5.6 lm	1.0 %	1.0 %
TOTALS		532.6 lm	100.0 %	100.0 %
BUG B0 U1 G1 Type V Very Short Quadrilateral Symmetry				

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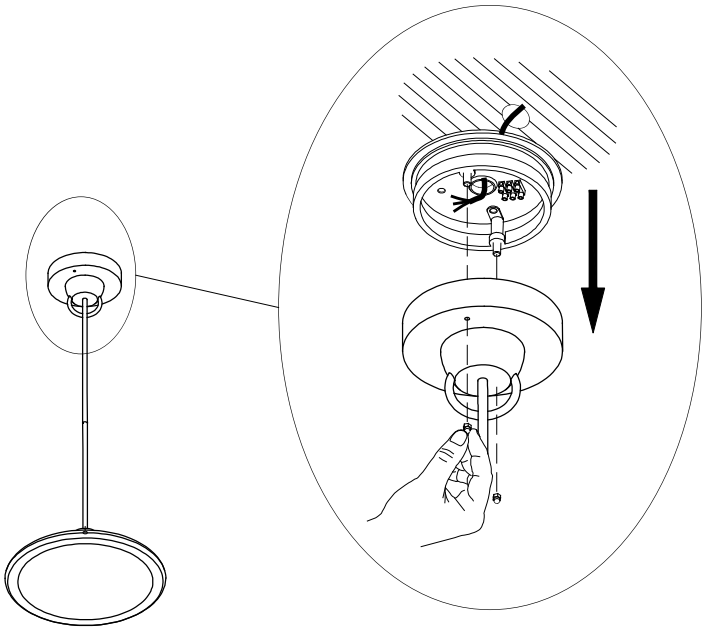

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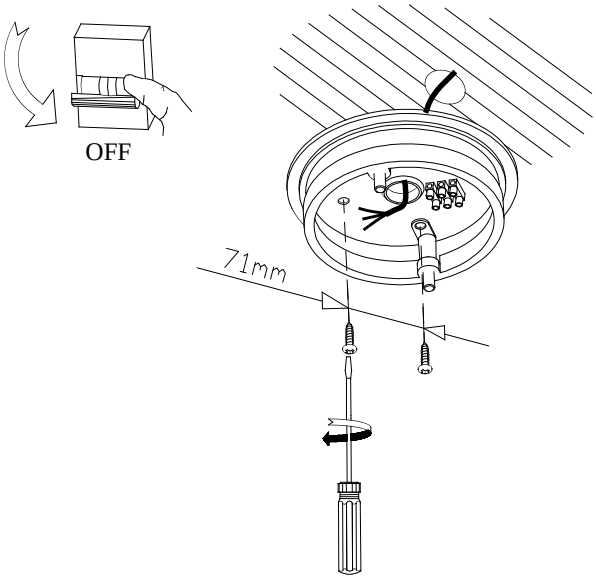

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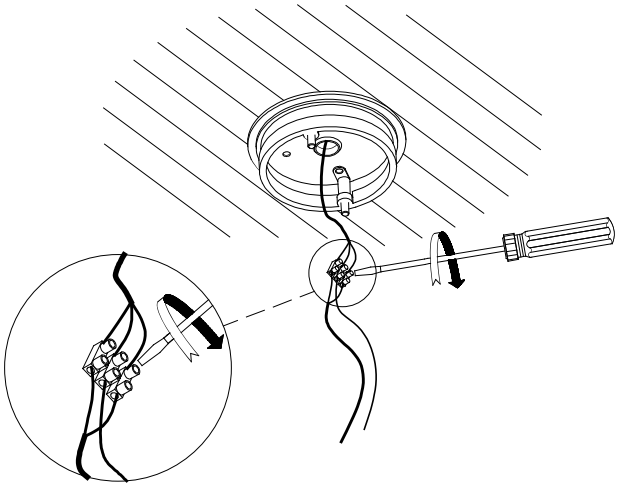

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