

Luminaire

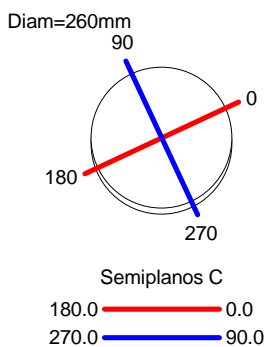
Code A686-014 (A686-205 + A686-113)
Name COPERCICA P190

Measurem.

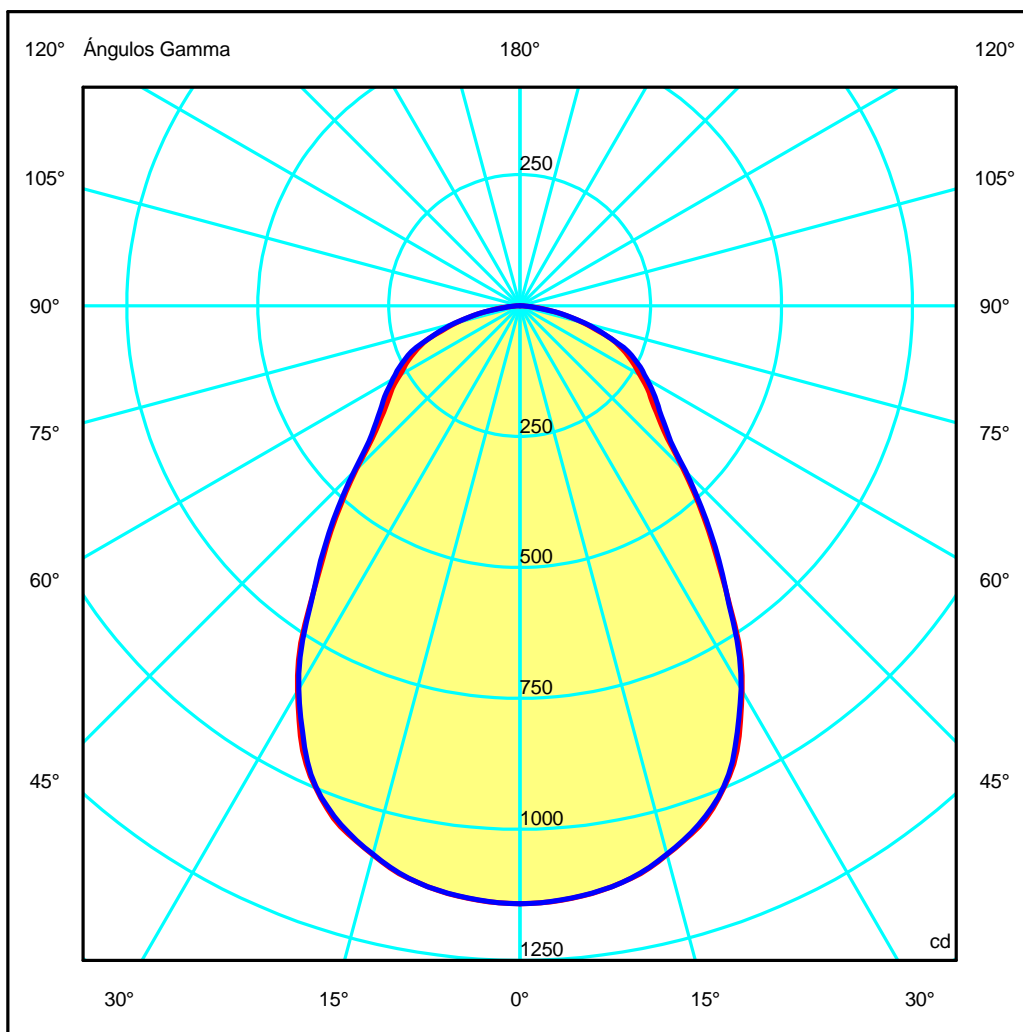
Code CL041A18F002G
Name COPERCICA P190

Luminaire Flux	2302.14 lm	Luminaire Power	28.92 W	Efficacy	79.61 lm/W	Efficiency	100.00%
Lamps Flux	2302.14 lm	Maximum value	1141.75 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical
Round Luminaire Round Luminous Area		Diam. Diam.	260 mm 190 mm	Height Height	22 mm 0 mm		
Horizontal Luminous Area Emitting area on Plane 0° Emitting area on Plane 90°		0.028353 m2 0.000000 m2 0.000000 m2		Emitting area on Plane 180° Emitting area on Plane 270° Glare area at 76°		0.000000 m2 0.000000 m2 0.006859 m2	
Coordinate system Date Measurement Distance		CG 29-08-2018 6.44		Symmetry Type Maximum Gamma Angle Measurement Flux		Double Symmetrical 90 2302.14 lm	
Operator Temperature Humidity Notes		AsselumT2 24.60 °C 51.80 % RM18072006		Source Voltage [V] Source current [A] Photocell		230.00 V 0.15 A Prc	

Luminaire Lamps						
Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty	
	A686-014 (A686-205 + A686-113)	COPERCICA P190	2302.14	28.92	1	
C.I.E. F UTE	58 83 97 100 100 1.00 D	D DIN 5040 B NBN	A40 BZ 3			



ULOR 0.00 %
DLOR 100.00 %
RN 0.00 %



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Luminous Intensity Table cd Table 1/1

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	1141.75	1141.75	1141.75	1141.75	1141.75	1141.75	1141.75
G 2.5	1140.26	1140.49	1139.98	1140.23	1140.12	1140.13	1140.05
G 5.0	1135.62	1136.01	1135.53	1135.71	1135.57	1135.79	1135.19
G 7.5	1128.77	1129.18	1129.00	1128.65	1128.65	1128.63	1128.27
G 10.0	1118.74	1118.60	1118.45	1118.81	1118.18	1118.10	1118.67
G 12.5	1105.22	1105.03	1105.14	1104.54	1104.04	1104.14	1104.02
G 15.0	1085.57	1087.63	1086.99	1085.50	1085.79	1085.41	1084.00
G 17.5	1064.86	1065.61	1064.79	1064.56	1063.47	1063.93	1062.91
G 20.0	1041.17	1040.84	1039.27	1039.19	1037.73	1038.18	1036.89
G 22.5	1006.22	1005.96	1004.93	1004.96	1003.01	1001.94	1004.69
G 25.0	965.93	965.78	962.98	963.01	960.82	960.29	960.21
G 27.5	910.18	911.22	904.71	914.45	900.02	905.95	902.25
G 30.0	848.49	849.71	844.98	844.37	842.42	846.66	844.65
G 32.5	783.33	775.50	776.10	767.87	773.94	766.96	776.79
G 35.0	699.76	699.19	694.77	696.98	695.86	697.61	696.58
G 37.5	623.75	629.22	627.94	628.66	629.27	629.32	630.32
G 40.0	560.06	560.28	560.23	563.33	560.62	565.97	566.96
G 42.5	498.41	494.81	497.35	497.08	500.73	507.00	506.11
G 45.0	441.28	439.40	441.11	437.33	446.31	441.04	447.57
G 47.5	388.13	387.75	388.95	391.70	393.64	393.96	395.73
G 50.0	352.03	354.22	356.47	357.76	361.59	362.57	363.85
G 52.5	325.55	326.15	328.77	331.59	333.84	337.21	338.26
G 55.0	304.92	304.55	307.47	309.68	313.86	317.56	318.90
G 57.5	286.56	284.65	288.56	289.33	295.35	295.96	299.47
G 60.0	264.60	266.48	268.71	271.60	275.34	278.54	279.59
G 62.5	247.13	248.87	250.52	254.27	258.01	260.97	261.65
G 65.0	228.79	228.64	229.63	234.83	237.16	241.67	241.76
G 67.5	208.55	206.07	208.23	211.02	215.46	219.91	219.50
G 70.0	185.63	181.80	182.67	182.81	190.09	188.43	186.59
G 72.5	152.03	151.90	152.21	154.74	158.32	159.51	158.20
G 75.0	124.25	123.97	123.98	125.93	129.87	130.09	128.85
G 77.5	95.32	93.08	92.73	95.37	98.49	99.44	97.98
G 80.0	67.87	63.05	64.96	64.09	68.87	69.61	68.87
G 82.5	40.33	37.15	37.19	36.50	40.24	36.88	35.13
G 85.0	16.44	16.08	16.69	16.61	17.94	16.76	17.03
G 87.5	3.93	3.98	4.34	4.23	4.93	4.18	4.64
G 90.0	0.73	0.76	0.75	0.76	0.76	0.75	0.73

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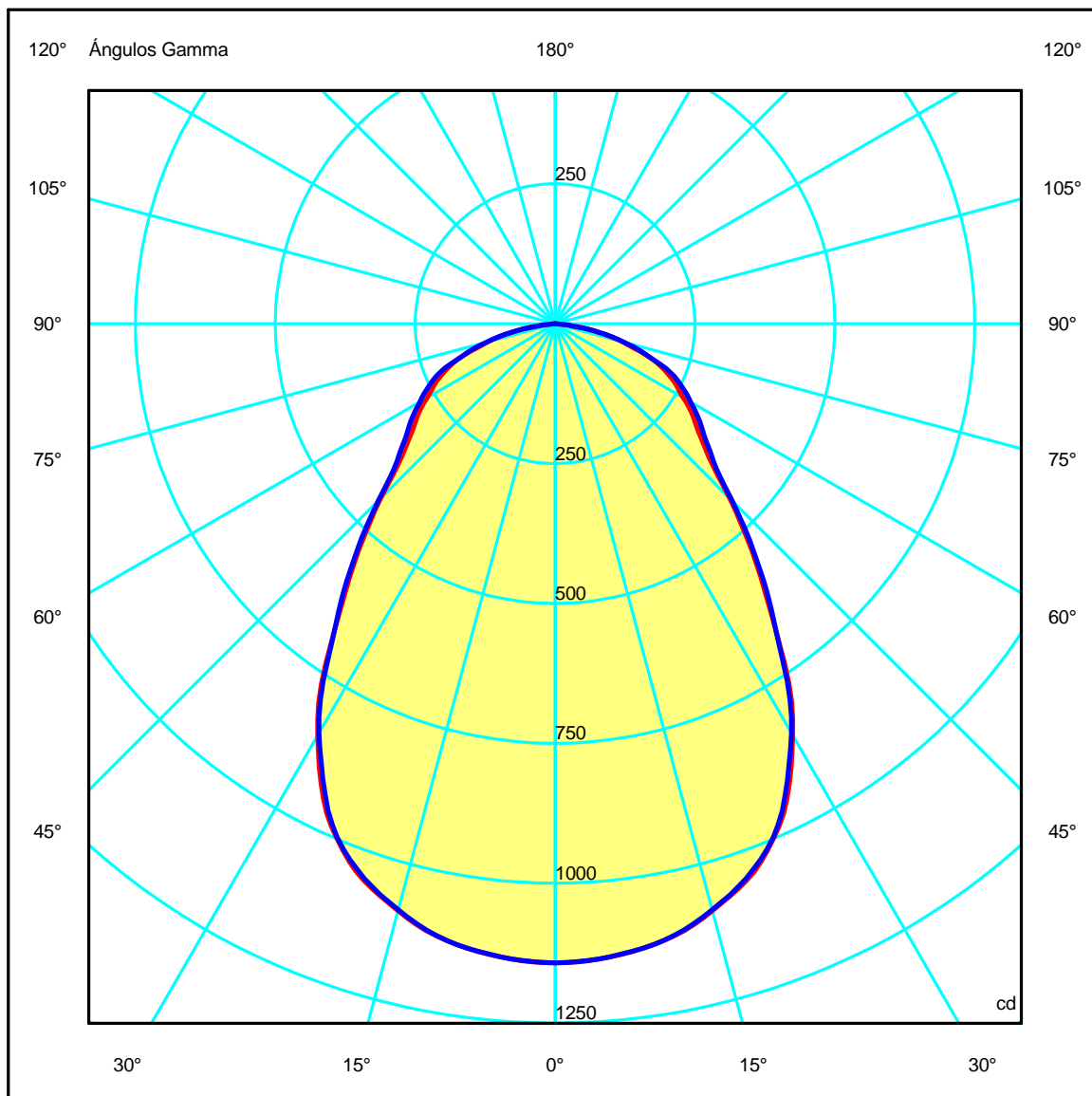
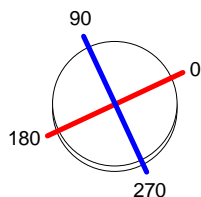
Luminaire Flux	2302.14 lm	Luminaire Power	28.92 W	Efficacy	79.61 lm/W	Efficiency	100.00%
Lamps Flux	2302.14 lm	Maximum value	1141.75 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=260mm

Semiplanos C

180.0 ————— 0.0

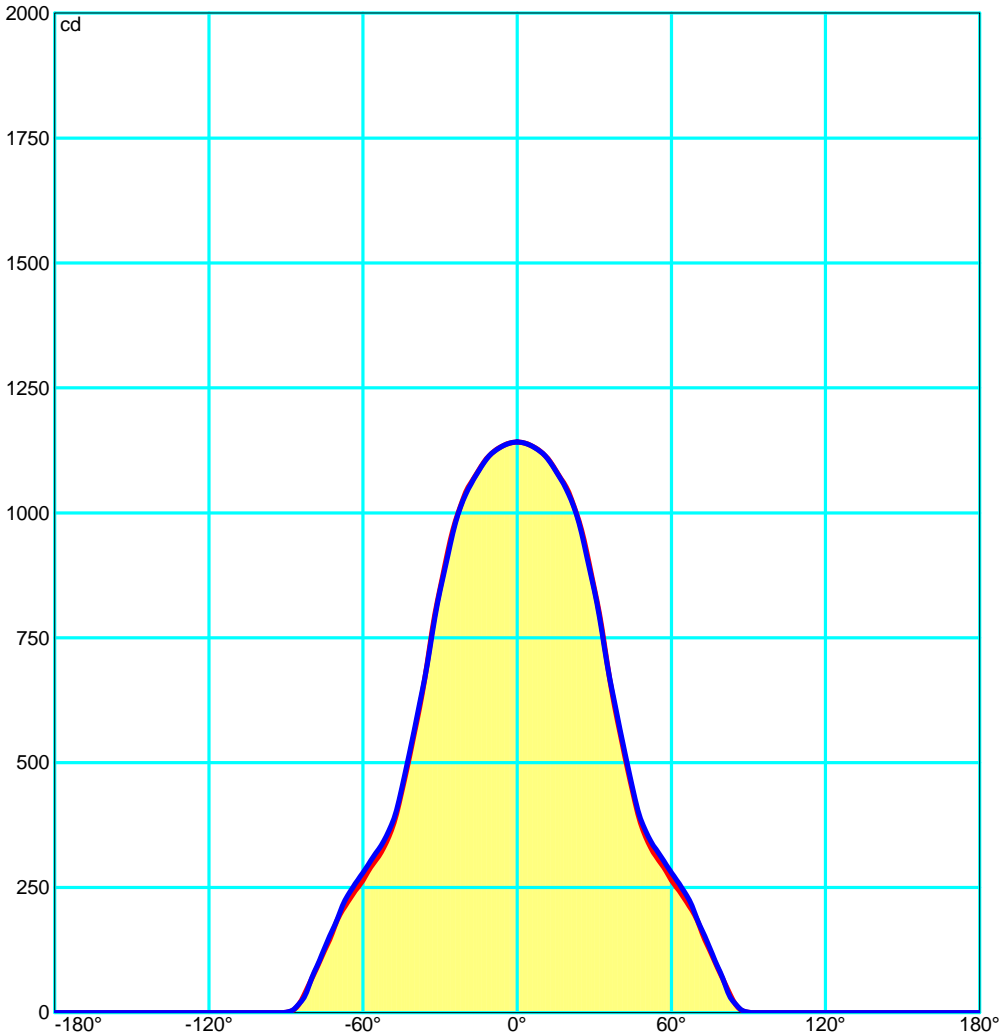
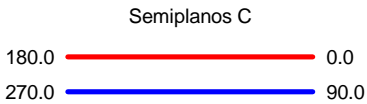
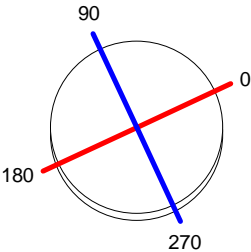
270.0 ————— 90.0



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Lamps Flux	2302.14 lm	Maximum value	1141.75 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	Viewed Crosswise					Viewed Endwise				
x=2H y=2H	22.1	23.3	22.4	23.5	23.7	22.3	23.5	22.6	23.7	23.9
x=2H y=3H	23.9	24.9	24.2	25.2	25.4	24.1	25.2	24.4	25.4	25.7
x=2H y=4H	24.5	25.5	24.9	25.8	26.1	24.8	25.8	25.1	26.1	26.4
x=2H y=6H	25.0	25.9	25.3	26.2	26.5	25.2	26.2	25.6	26.5	26.8
x=2H y=8H	25.0	25.9	25.4	26.3	26.6	25.3	26.2	25.7	26.5	26.8
x=2H y=12H	25.1	25.9	25.4	26.3	26.6	25.3	26.2	25.7	26.5	26.8
x=4H y=2H	22.9	23.9	23.2	24.2	24.5	23.1	24.1	23.4	24.3	24.6
x=4H y=3H	24.8	25.7	25.2	26.0	26.4	25.1	25.9	25.4	26.2	26.6
x=4H y=4H	25.6	26.4	26.0	26.7	27.1	25.9	26.6	26.3	27.0	27.3
x=4H y=6H	26.1	26.8	26.6	27.2	27.6	26.4	27.1	26.8	27.5	27.8
x=4H y=8H	26.3	26.9	26.7	27.3	27.7	26.5	27.1	27.0	27.5	27.9
x=4H y=12H	26.3	26.8	26.7	27.2	27.7	26.5	27.1	27.0	27.5	27.9
x=8H y=4H	26.0	26.6	26.4	27.0	27.4	26.2	26.8	26.6	27.2	27.6
x=8H y=6H	26.6	27.1	27.1	27.5	28.0	26.8	27.3	27.3	27.8	28.2
x=8H y=8H	26.8	27.2	27.2	27.6	28.1	27.0	27.4	27.5	27.9	28.3
x=8H y=12H	26.8	27.2	27.3	27.6	28.2	27.1	27.4	27.5	27.9	28.4
x=12H y=4H	26.0	26.6	26.4	26.9	27.4	26.2	26.8	26.7	27.2	27.6
x=12H y=6H	26.6	27.1	27.1	27.5	28.0	26.9	27.3	27.4	27.7	28.2
x=12H y=8H	26.8	27.2	27.3	27.6	28.1	27.1	27.4	27.5	27.9	28.4

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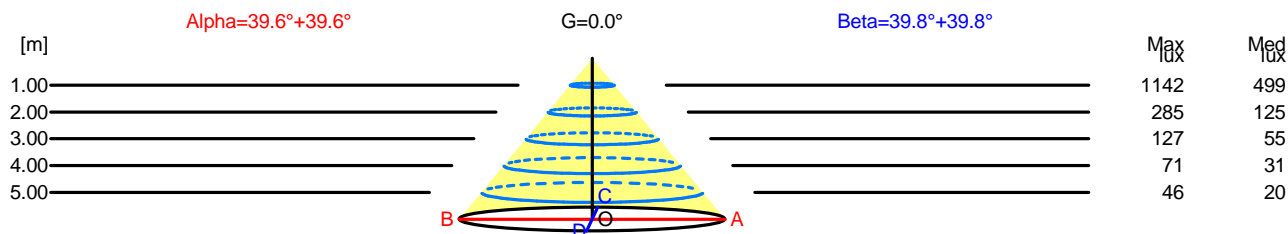
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Lamps Flux	2302.14 lm	Maximum value	1141.75 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

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	0.83	1.65	2.48	3.30	4.13	OC	0.83	1.67	2.50	3.34	4.17
OB	0.83	1.65	2.48	3.30	4.13	OD	0.83	1.67	2.50	3.34	4.17

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	1141.75	1135.62	1085.57	965.93	699.76	441.28	304.92	228.79	124.25	16.44
OB	1141.75	1135.62	1085.57	965.93	699.76	441.28	304.92	228.79	124.25	16.44
OC	1141.75	1135.19	1084.00	960.21	696.58	447.57	318.90	241.76	128.85	17.03
OD	1141.75	1135.19	1084.00	960.21	696.58	447.57	318.90	241.76	128.85	17.03



H[m]	D[m]	Max lux	Med lux	Alpha=39.6°+39.6°	G=0.0	
1.00	1.65	1142	499			
2.00	3.30	285	125			
3.00	4.96	127	55			
4.00	6.61	71	31			
5.00	8.26	46	20			

H[m]	D[m]	Max lux	Med lux	Beta=39.8°+39.8°	G=0.0	
1.00	1.67	1142	499			
2.00	3.34	285	125			
3.00	5.01	127	55			
4.00	6.68	71	31			
5.00	8.34	46	20			

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Measurment

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Flujo Total=2302.14 Flujo Luminaria=2302.14

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	0.40	0.47	0.54	0.61	0.66	0.73	0.79	0.82	0.87	0.89	0.95	0.98
RC	3	3	3	4	4	3	3	3	3	3	2	2

Flujo Zonal por 1000 Lúmenes

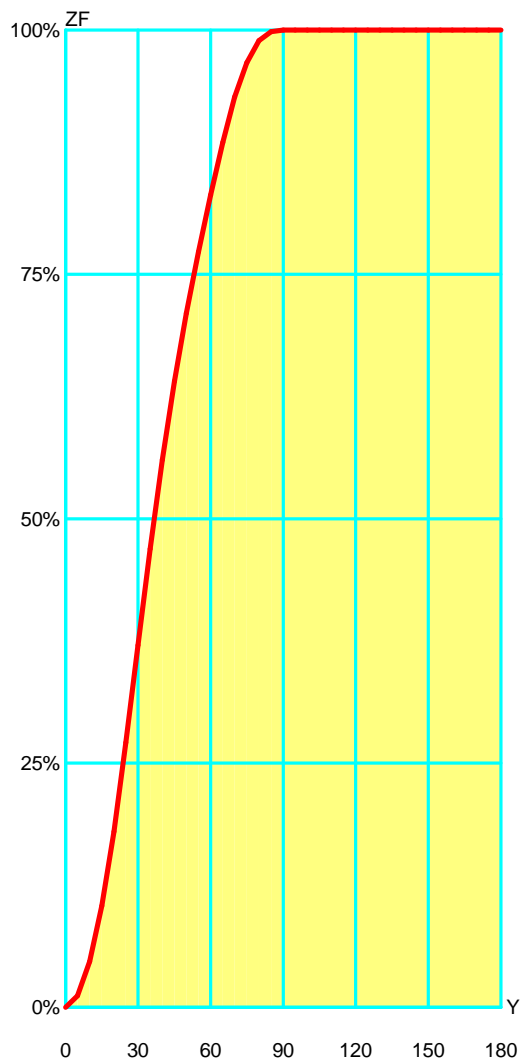
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	47	180	370	560	710	831	931	989	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Códigos de Flujo C.I.E.

58 83 97 100 100

C.I.E. 3/3/3/4/3/3/3/3/2/2
D DIN 5040 A40
F UTE 1.00 D
B NBN BZ 3
RN 0.00000 %
BLF 1.0

LOR 100.00000 %
ULOR 0.00000 %
DLOR 100.00000 %
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°	11.83	11.83	1.18 %	1.18 %
10°	35.03	46.86	3.50 %	4.69 %
15°	56.82	103.68	5.68 %	10.37 %
20°	76.08	179.76	7.61 %	17.98 %
25°	91.26	271.03	9.13 %	27.10 %
30°	99.44	370.46	9.94 %	37.05 %
35°	98.65	469.12	9.87 %	46.91 %
40°	91.05	560.17	9.11 %	56.02 %
45°	80.46	640.63	8.05 %	64.06 %
50°	69.38	710.01	6.94 %	71.00 %
55°	62.88	772.90	6.29 %	77.29 %
60°	58.47	831.37	5.85 %	83.14 %
65°	53.60	884.97	5.36 %	88.50 %
70°	46.43	931.41	4.64 %	93.14 %
75°	35.32	966.73	3.53 %	96.67 %
80°	22.37	989.10	2.24 %	98.91 %
85°	9.35	998.44	0.93 %	99.84 %
90°	1.56	1000.00	0.16 %	100.00 %
95°	0.00	1000.00	0.00 %	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 %

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Isolux (Floor)

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

