

Luminaire

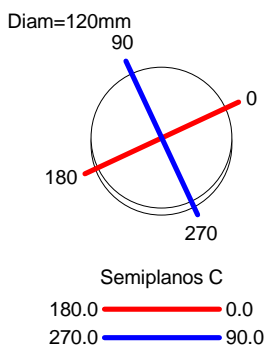
Code A686-009
Name COPERNICA PS.NICKEL-RED-WH

Measur.

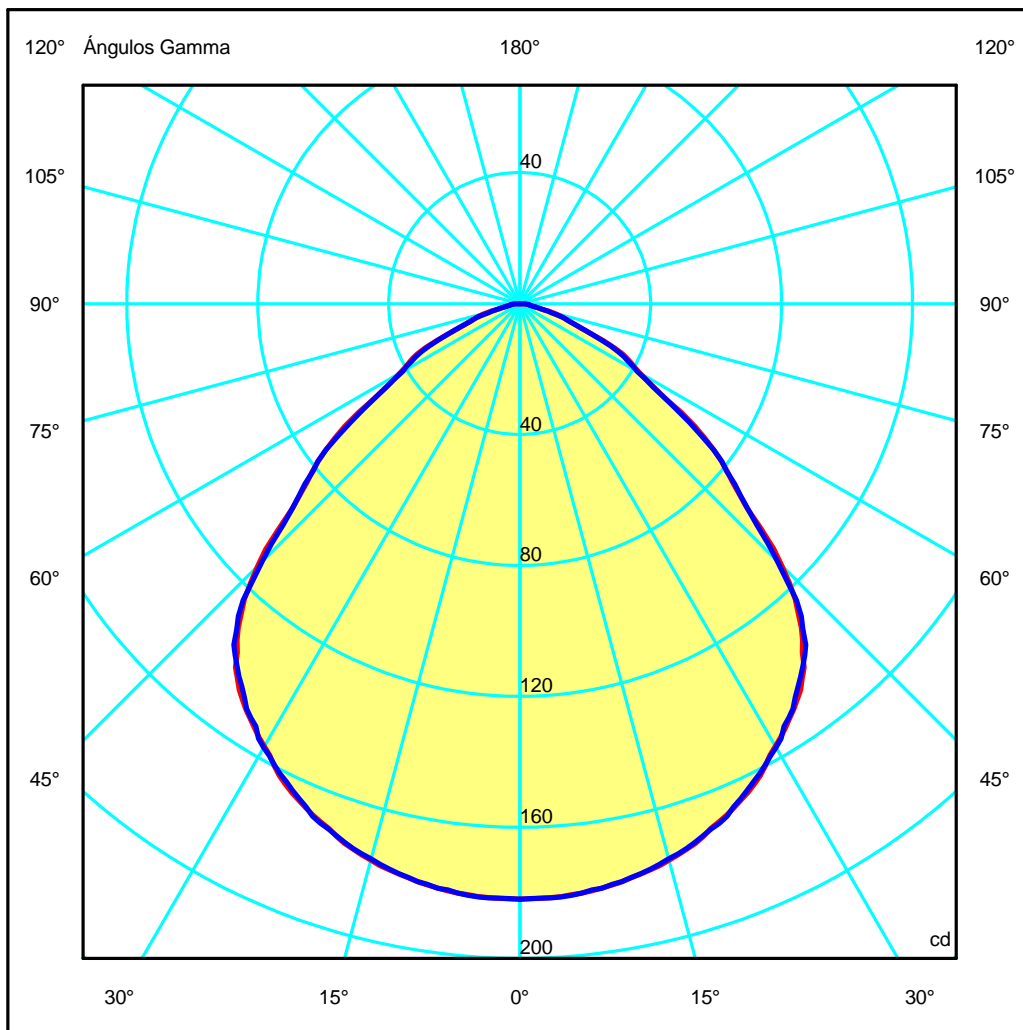
Code CL041A19F015G
Name COPERNICA PS.NICKEL-RED-WH

Luminaire Flux	416.50 lm	Luminaire Power	5.89 W	Efficacy	70.76 lm/W	Efficiency	100.00%
Lamps Flux	416.50 lm	Maximum value	182.86 cd	Position	C=15.00 G=1.00	CG	Double Symmetrical
Round Luminaire Round Luminous Area	Diam. 120 mm Diam. 45 mm	Height	70 mm	Height	0 mm		
Horizontal Luminous Area Emitting area on Plane 0° Emitting area on Plane 90°	0.001590 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 0.000385 m2		
Coordinate system Date Measurement Distance	CG 26-02-2019 6.44	Symmetry Type Maximum Gamma Angle Measurement Flux			Double Symmetrical 90 416.50 lm		
Operator Temperature Humidity Notes	Asselum T2 24.30 °C 29.90 % RM18121701.18	Rated Voltage Rated Current Photocell			230.25 V 0.11 A Prc		

Line	Code	Luminaire Lamps Name LED	Flux [lm] 416.50	Pow. [W] 5.89	Q.ty 1
C.I.E. F UTE	59 91 99 100 100 1.00 C	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 1/2

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	182	182	182	182	182	182	182
G 1.0	182	183	182	182	182	182	182
G 2.0	182	182	181	182	182	182	182
G 3.0	182	181	181	182	182	182	182
G 4.0	182	181	181	182	182	181	182
G 5.0	181	181	181	181	181	181	181
G 6.0	181	181	181	181	181	181	181
G 7.0	181	181	180	181	181	181	180
G 8.0	180	180	180	180	180	180	180
G 9.0	180	180	180	180	180	180	180
G 10.0	179	179	179	179	179	179	179
G 11.0	179	178	179	179	179	178	179
G 12.0	178	178	178	178	178	178	178
G 13.0	177	177	177	178	178	177	177
G 14.0	177	177	176	177	177	177	176
G 15.0	176	176	176	176	176	176	176
G 16.0	175	175	175	175	175	175	175
G 17.0	174	174	174	174	174	174	174
G 18.0	173	173	173	173	173	173	173
G 19.0	172	172	172	172	172	172	172
G 20.0	171	171	171	171	171	171	171
G 21.0	170	169	170	170	170	169	170
G 22.0	169	168	169	169	169	168	169
G 23.0	167	167	167	167	167	167	167
G 24.0	166	166	166	166	166	166	166
G 25.0	165	165	164	165	164	164	164
G 26.0	163	163	163	163	163	163	163
G 27.0	162	162	161	162	161	162	161
G 28.0	160	160	160	160	160	160	160
G 29.0	158	158	158	159	158	158	158
G 30.0	156	156	157	157	157	156	157
G 31.0	155	155	155	155	155	154	155
G 32.0	153	153	153	153	153	153	152
G 33.0	151	151	151	152	151	151	151
G 34.0	150	149	149	150	149	149	149
G 35.0	148	148	147	148	147	148	147
G 36.0	146	146	145	146	145	146	145
G 37.0	143	143	143	143	143	144	143
G 38.0	141	141	141	141	141	141	140
G 39.0	137	138	138	138	139	138	138
G 40.0	134	135	136	136	136	135	136
G 41.0	131	132	133	132	133	132	132
G 42.0	127	128	128	128	128	128	128
G 43.0	123	124	123	124	124	124	124
G 44.0	118	119	117	118	118	119	117
G 45.0	113	113	111	112	112	113	111
G 46.0	108	106	105	107	105	107	105
G 47.0	101	101	99	101	99	101	99
G 48.0	93	95	94	95	94	95	94
G 49.0	89	89	90	90	89	89	89
G 50.0	85	84	86	85	85	84	86
G 51.0	82	79	82	79	81	79	81
G 52.0	78	75	78	74	78	75	78
G 53.0	74	71	73	71	74	71	74
G 54.0	70	68	69	67	70	68	68
G 55.0	65	65	63	65	63	65	63
G 56.0	59	62	58	62	57	63	58
G 57.0	53	60	53	59	52	59	52
G 58.0	48	56	49	55	48	56	48
G 59.0	45	51	45	51	44	50	45
G 60.0	42	45	43	45	42	44	41
G 61.0	40	39	40	38	40	38	40
G 62.0	38	33	38	33	38	33	37
G 63.0	37	29	35	29	35	29	36
G 64.0	35	27	34	26	34	26	33
G 65.0	32	24	31	24	30	24	31
G 66.0	28	22	27	22	27	22	27
G 67.0	24	21	24	21	24	20	24
G 68.0	21	19	21	20	21	19	21
G 69.0	18	18	19	18	18	18	19
G 70.0	17	17	17	16	17	16	16
G 71.0	15	14	15	14	15	13	15
G 72.0	14	11	14	11	14	11	14

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Lamps Flux	416.50 lm	Maximum value	182.86 cd	Position	C=15.00 G=1.00	CG	Double Symmetrical

Luminous Intensity Table cd Table 2/2

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 73.0	13	9	13	9	13	9	12
G 74.0	11	8	11	8	11	8	10
G 75.0	9	7	9	7	9	7	9
G 76.0	7	6	8	6	8	6	7
G 77.0	6	5	6	5	6	5	6
G 78.0	5	4	5	4	5	4	5
G 79.0	4	3	4	3	4	3	4
G 80.0	4	3	4	3	3	3	3
G 81.0	3	3	3	3	3	3	3
G 82.0	3	3	3	3	3	3	3
G 83.0	3	3	3	3	3	3	3
G 84.0	3	3	3	3	3	3	3
G 85.0	2	2	2	3	3	3	2
G 86.0	2	2	2	2	2	2	2
G 87.0	1	1	1	2	2	2	2
G 88.0	0	1	1	1	1	1	1
G 89.0	0	0	1	1	1	1	1
G 90.0	0	0	0	0	0	0	0

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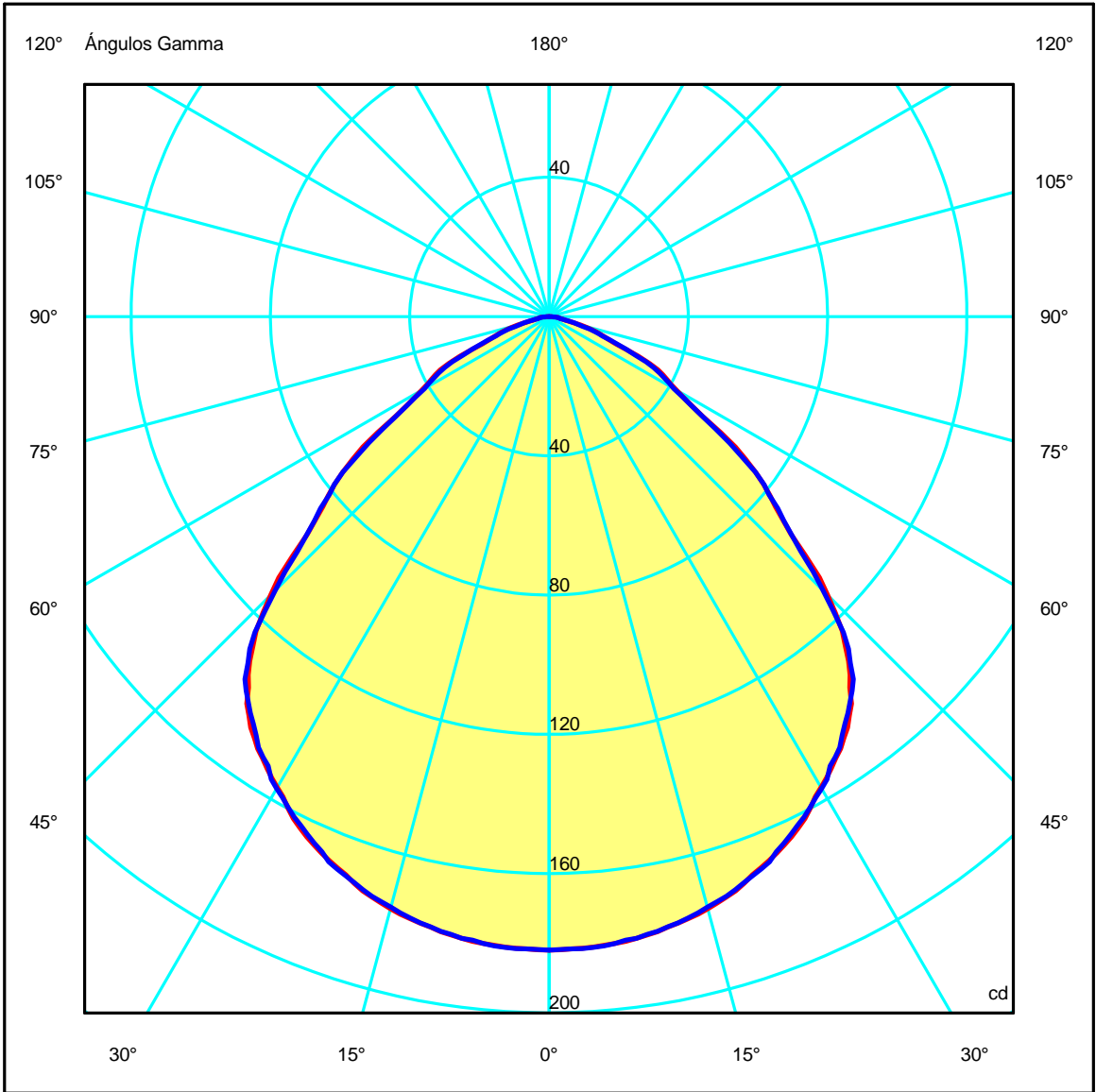
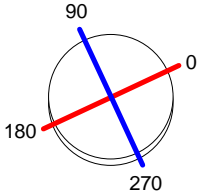
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Diam=120mm

Semiplanos C



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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	Viewed Crosswise					Viewed Endwise				
x=2H y=2H	26.8	28.0	27.1	28.2	28.4	26.8	27.9	27.1	28.1	28.4
x=2H y=3H	27.2	28.3	27.6	28.5	28.8	27.2	28.2	27.5	28.5	28.7
x=2H y=4H	27.3	28.2	27.6	28.5	28.8	27.2	28.2	27.6	28.5	28.7
x=2H y=6H	27.3	28.2	27.6	28.5	28.8	27.2	28.1	27.6	28.4	28.7
x=2H y=8H	27.3	28.1	27.6	28.4	28.7	27.2	28.1	27.6	28.4	28.7
x=2H y=12H	27.3	28.1	27.6	28.4	28.7	27.2	28.0	27.6	28.3	28.7
x=4H y=2H	27.1	28.1	27.4	28.4	28.6	27.1	28.0	27.4	28.3	28.6
x=4H y=3H	27.7	28.5	28.0	28.8	29.1	27.6	28.4	28.0	28.7	29.1
x=4H y=4H	27.8	28.5	28.2	28.8	29.2	27.7	28.4	28.1	28.8	29.1
x=4H y=6H	27.8	28.4	28.2	28.8	29.2	27.8	28.4	28.2	28.7	29.1
x=4H y=8H	27.8	28.4	28.2	28.8	29.2	27.8	28.3	28.2	28.7	29.1
x=4H y=12H	27.8	28.3	28.3	28.7	29.2	27.8	28.3	28.2	28.7	29.1
x=8H y=4H	27.8	28.4	28.2	28.8	29.2	27.8	28.3	28.2	28.7	29.1
x=8H y=6H	27.8	28.3	28.3	28.7	29.2	27.8	28.3	28.3	28.7	29.1
x=8H y=8H	27.9	28.3	28.3	28.7	29.2	27.8	28.2	28.3	28.7	29.1
x=8H y=12H	27.9	28.2	28.4	28.7	29.2	27.9	28.2	28.4	28.7	29.2
x=12H y=4H	27.8	28.3	28.2	28.7	29.1	27.7	28.2	28.2	28.6	29.1
x=12H y=6H	27.8	28.2	28.3	28.7	29.1	27.8	28.2	28.2	28.6	29.1
x=12H y=8H	27.9	28.2	28.3	28.7	29.2	27.8	28.2	28.3	28.6	29.1

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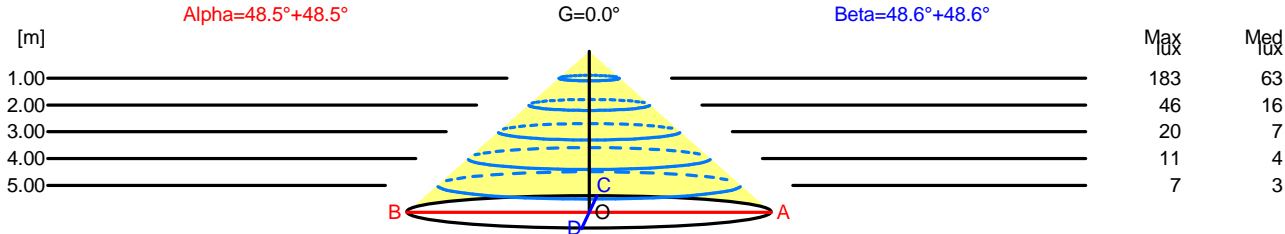
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Lamps Flux	416.50 lm	Maximum value	182.86 cd	Position	C=15.00 G=1.00	CG	Double Symmetrical

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	1.13	2.26	3.40	4.53	5.66	OC	1.13	2.27	3.40	4.54	5.67
OB	1.13	2.26	3.40	4.53	5.66	OD	1.13	2.27	3.40	4.54	5.67

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	181.93	181.19	176.02	164.76	147.67	113.15	65.27	31.78	9.41	2.27
OB	181.93	181.19	176.02	164.76	147.67	113.15	65.27	31.78	9.41	2.27
OC	181.93	181.40	175.58	164.10	146.73	111.21	63.14	30.65	8.61	2.45
OD	181.93	181.40	175.58	164.10	146.73	111.21	63.14	30.65	8.61	2.45



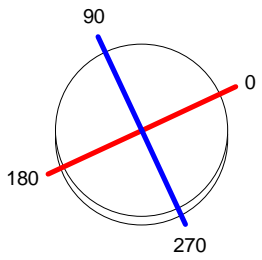
H[m]	D[m]	Max lux	Med lux	Alpha=48.5°+48.5°	G=0.0
1.00	2.26	183	63		
2.00	4.53	46	16		
3.00	6.79	20	7		
4.00	9.06	11	4		
5.00	11.32	7	3		

H[m]	D[m]	Max lux	Med lux	Beta=48.6°+48.6°	G=0.0
1.00	2.27	183	63		
2.00	4.54	46	16		
3.00	6.81	20	7		
4.00	9.08	11	4		
5.00	11.35	7	3		

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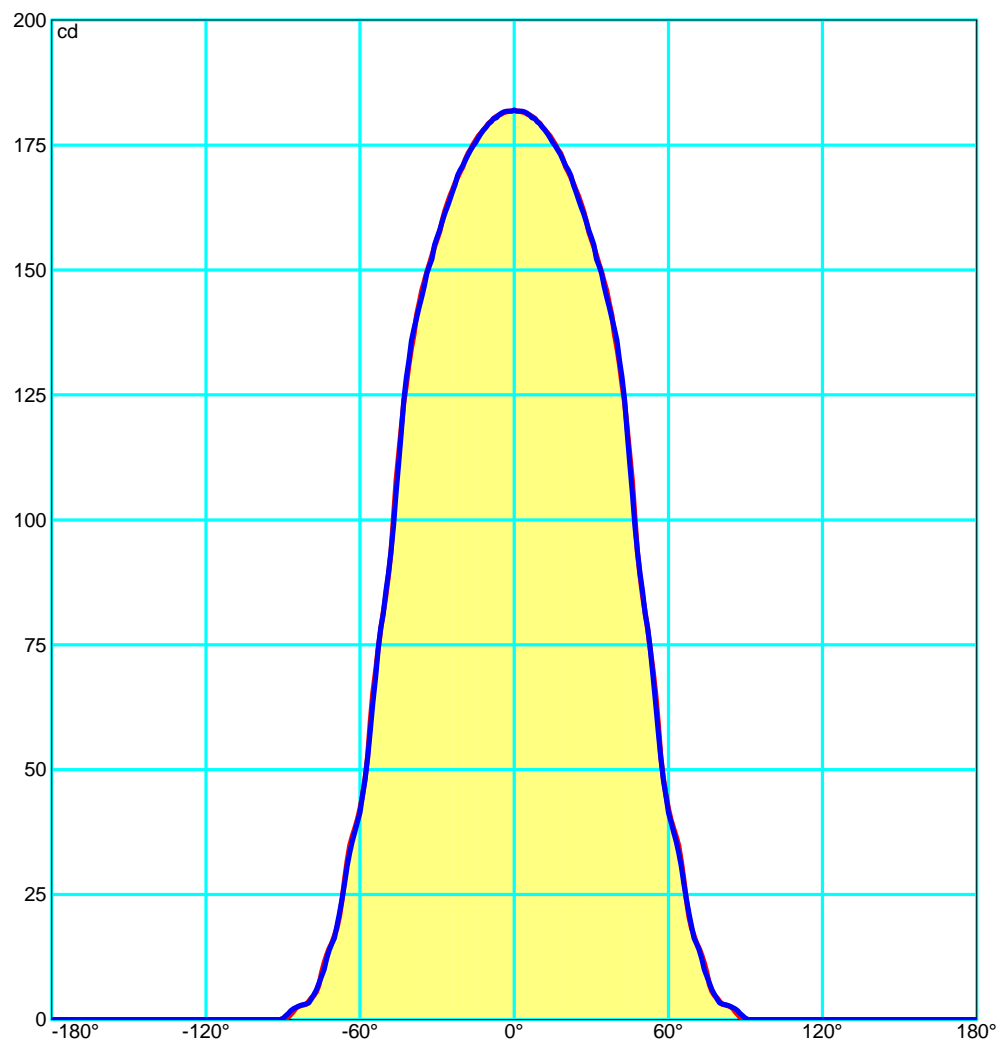
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Diam=120mm



Semiplanos C

180.0 ——— 0.0
270.0 ——— 90.0



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Flujo Total=416.50 Flujo Luminaria=416.50

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	0.39	0.48	0.56	0.63	0.68	0.76	0.81	0.84	0.88	0.90	0.95	0.97
RC	4	3	3	3	3	3	3	3	3	3	3	3

Flujo Zonal por 1000 Lúmenes

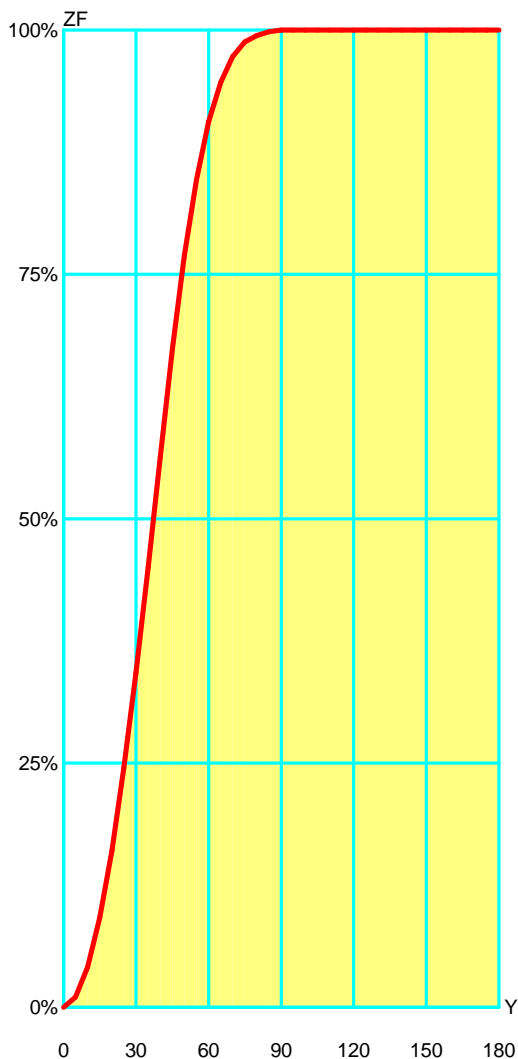
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	41	161	343	563	769	906	973	995	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Códigos de Flujo C.I.E.

59 91 99 100 100

C.I.E. 4/3/3/3/3/3/3/3/3/3
D DIN 5040 A40
F UTE 1.00 C
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°	10.42	10.42	1.04 %	1.04 %
10°	30.95	41.38	3.10 %	4.14 %
15°	50.56	91.94	5.06 %	9.19 %
20°	68.60	160.54	6.86 %	16.05 %
25°	84.43	244.97	8.44 %	24.50 %
30°	97.53	342.50	9.75 %	34.25 %
35°	107.44	449.94	10.74 %	44.99 %
40°	113.50	563.44	11.35 %	56.34 %
45°	111.15	674.59	11.11 %	67.46 %
50°	94.65	769.24	9.47 %	76.92 %
55°	77.58	846.82	7.76 %	84.68 %
60°	59.65	906.47	5.97 %	90.65 %
65°	40.14	946.61	4.01 %	94.66 %
70°	26.21	972.82	2.62 %	97.28 %
75°	14.94	987.77	1.49 %	98.78 %
80°	6.74	994.51	0.67 %	99.45 %
85°	3.75	998.26	0.37 %	99.83 %
90°	1.74	1000.00	0.17 %	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

