

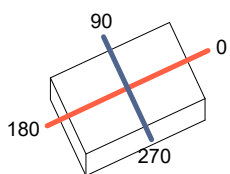
Luminaire

Code A646-090
Name LAB 1 2020 GRAPHITE GREY
Measurement.
Code CL041A21F023G
Name LAB 1 2020 GRAPHITE GREY

Luminaire Flux	304.99 lm	Luminaire Power	4.42 W	Efficacy	69.04 lm/W	Efficiency	100.00%
Sources Flux	304.99 lm	Maximum value	769.38 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical
Rectangular Luminaire Round Luminous Area		Length Diam.	80 mm 25 mm	Width Height	125 mm 0 mm	Height	125 mm
Horizontal Luminous Area Emitting area on Plane 0° Emitting area on Plane 90°		0.000491 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 0.000119 m2	
Coordinate system Date Measurement Distance		CG 29-03-2021 6.44		Symmetry Type Maximum Gamma Angle Measurement Flux		Double Symmetrical 90 304.99 lm	
Operator Temperature Humidity Notes		Asselum T2 25.00 °C RM21032206.2		Rated Voltage Rated Current Photocell		230.29 V 0.05 A Prc	

Line		Code LED					Luminaire Sources		Flux [lm]	Pow. [W]	Q.ty
							Name LED		304.99	4.42	1
C.I.E.	90	98	100	100	100		D DIN 5040	A60			
F UTE	1.00	A					B NBN	BZ 1			

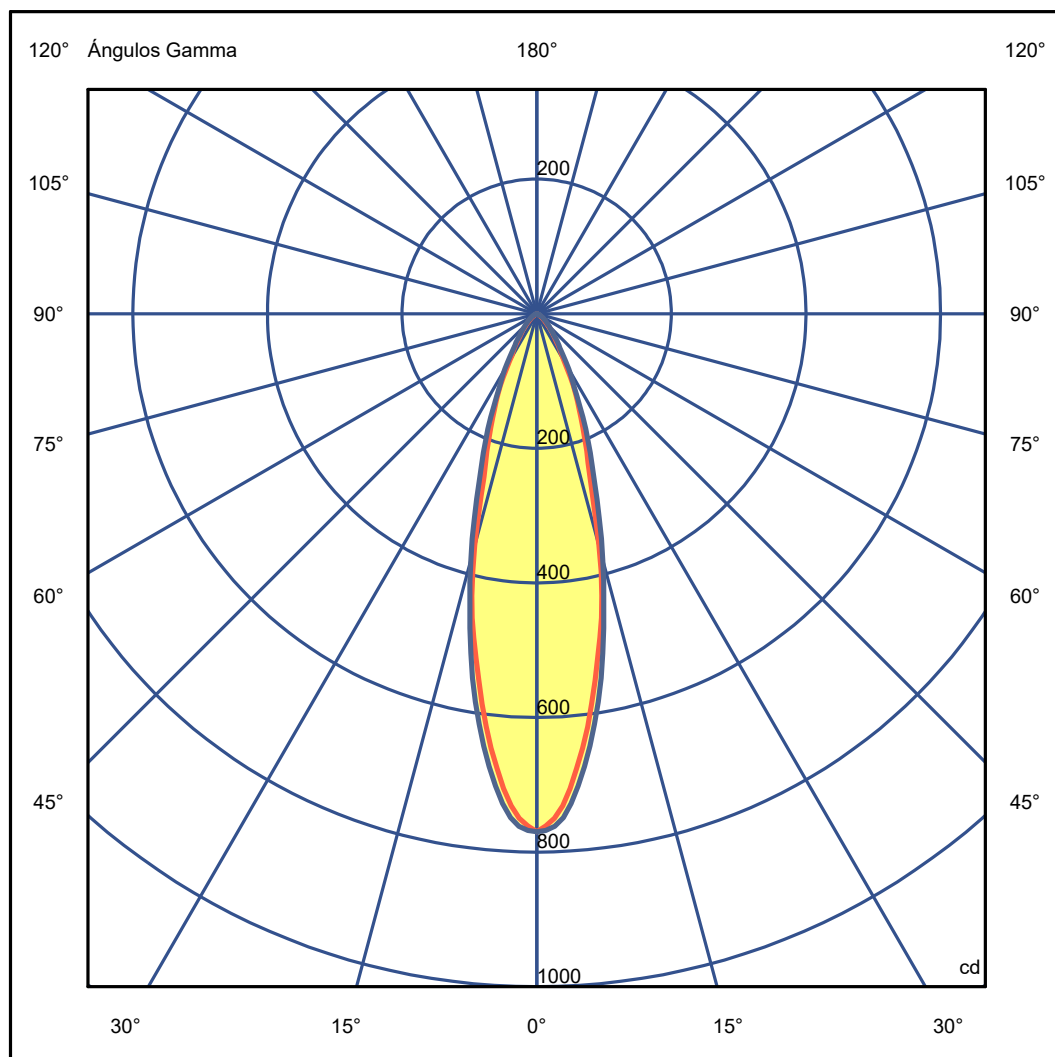
80mm x 125mm



Semiplanos C

180.0 — 0.0
270.0 — 90.0

ULOR 0.00 %
DLOR100.00 %
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	769.38	769.38	769.38	769.38	769.38	769.38	769.38
G 2.5	741.85	747.86	753.59	752.06	738.17	743.82	756.84
G 5.0	678.61	684.27	689.43	707.40	689.03	696.42	704.12
G 7.5	602.23	614.61	616.32	632.61	619.15	634.69	631.43
G 10.0	519.36	532.50	531.28	539.72	540.91	559.05	549.57
G 12.5	446.45	443.53	433.84	458.54	451.65	469.20	459.71
G 15.0	355.83	366.31	362.18	377.85	362.25	388.30	379.01
G 17.5	267.60	290.20	295.82	311.23	290.62	312.05	303.35
G 20.0	216.77	234.38	231.41	249.08	237.55	250.19	240.47
G 22.5	175.05	187.62	188.50	191.47	187.78	204.60	195.02
G 25.0	143.01	146.89	142.11	151.46	152.33	159.67	150.94
G 27.5	113.20	116.68	112.78	121.16	116.32	125.19	117.07
G 30.0	80.57	88.90	91.34	96.37	89.40	96.58	94.95
G 32.5	64.55	70.34	71.72	76.56	69.56	75.14	70.72
G 35.0	51.55	55.37	54.61	59.03	56.26	59.73	56.79
G 37.5	41.36	44.09	44.40	45.24	44.09	48.26	45.66
G 40.0	33.81	34.49	34.09	36.60	36.28	37.92	36.05
G 42.5	26.63	27.52	27.85	30.03	28.89	30.28	29.82
G 45.0	20.06	21.86	23.12	24.68	23.46	25.11	25.11
G 47.5	16.44	17.26	18.28	20.41	19.61	20.69	20.20
G 50.0	13.41	14.17	15.09	16.50	16.52	17.58	17.27
G 52.5	11.11	11.68	12.26	13.40	14.07	14.66	14.03
G 55.0	8.68	9.10	9.63	11.11	11.81	12.36	11.84
G 57.5	6.28	6.97	7.77	9.07	9.49	10.09	10.09
G 60.0	4.33	5.22	6.21	7.31	7.47	8.21	8.20
G 62.5	3.09	3.78	4.52	5.76	6.09	6.59	6.59
G 65.0	2.25	2.83	3.40	4.29	4.83	5.36	5.26
G 67.5	1.66	2.02	2.36	3.18	3.85	4.25	4.02
G 70.0	1.25	1.49	1.76	2.49	2.94	3.30	3.24
G 72.5	0.87	1.09	1.32	1.88	2.21	2.57	2.56
G 75.0	0.60	0.78	0.95	1.43	1.63	1.92	1.90
G 77.5	0.42	0.55	0.64	1.01	1.18	1.39	1.33
G 80.0	0.32	0.41	0.48	0.65	0.81	0.98	0.93
G 82.5	0.32	0.32	0.33	0.45	0.56	0.61	0.57
G 85.0	0.30	0.28	0.28	0.33	0.33	0.37	0.38
G 87.5	0.23	0.25	0.26	0.26	0.23	0.23	0.23
G 90.0	0.20	0.21	0.23	0.24	0.20	0.20	0.20

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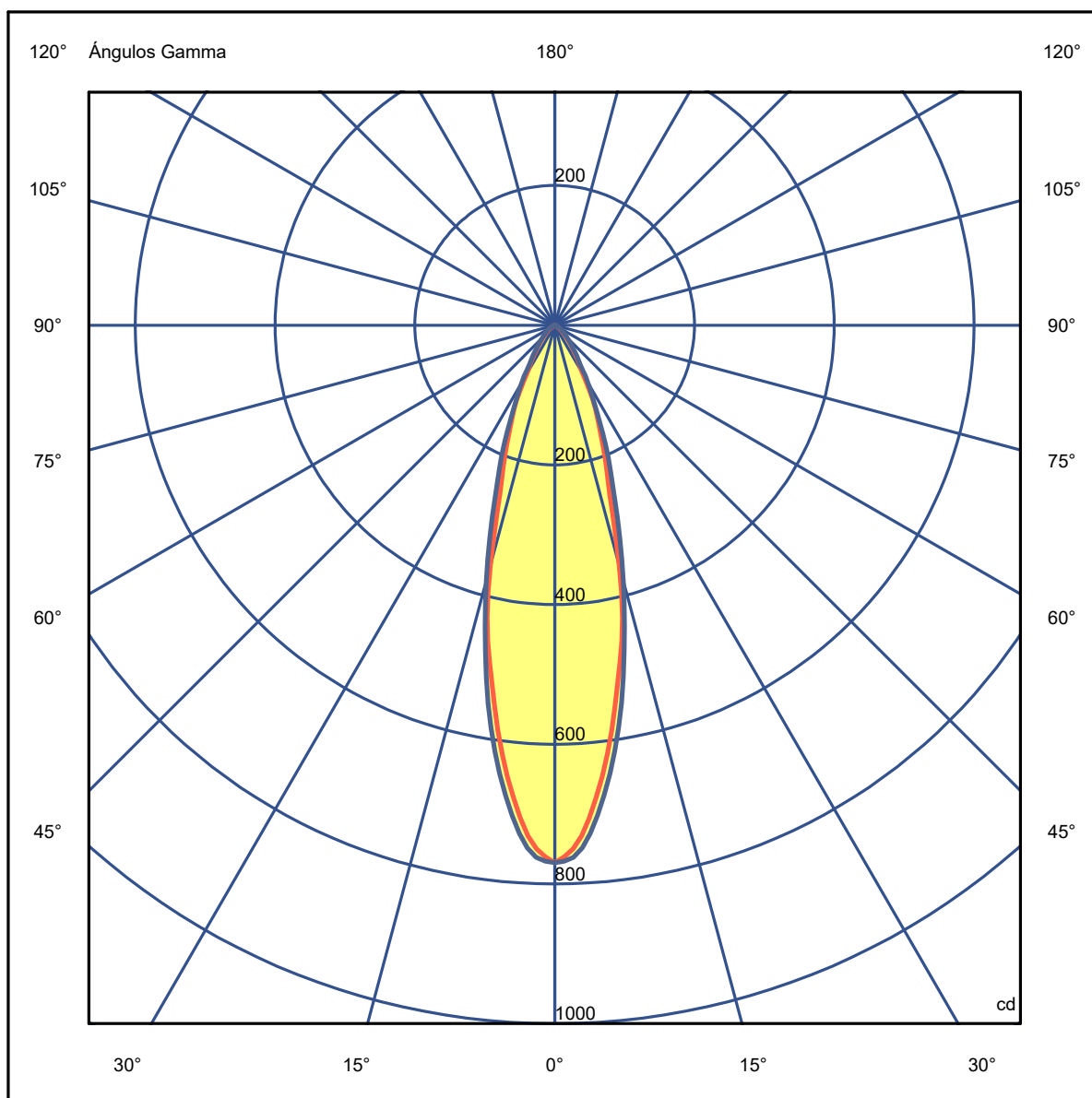
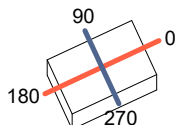
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80mm x 125mm

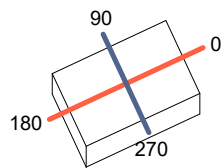
Semiplanos C

180.0 ——— 0.0
270.0 ——— 90.0



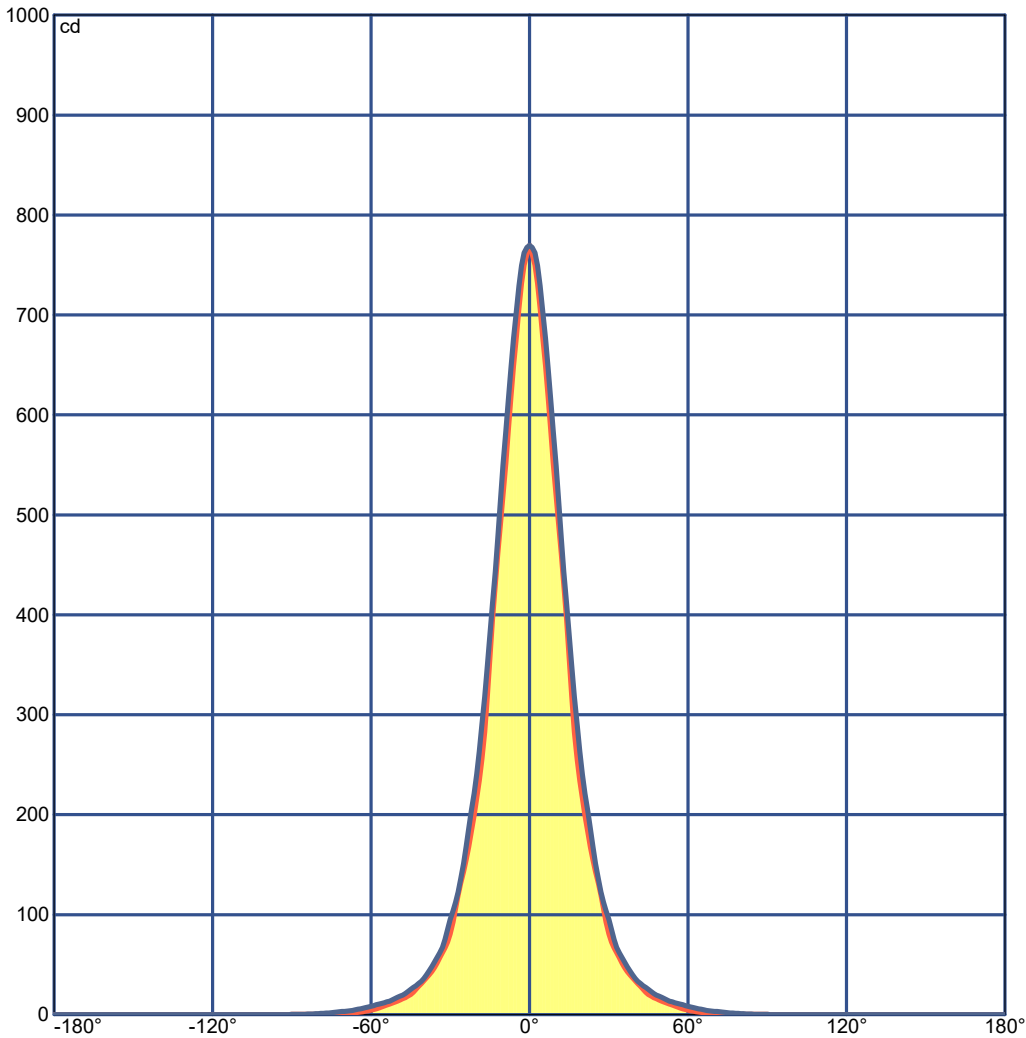
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UGR
S = 0.250

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
Working Plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions										
Lateral View					Viewed Endwise					
x=2H y=2H	21.1	21.8	21.3	22.0	22.2	22.1	22.8	22.3	23.0	23.2
x=2H y=3H	21.1	21.7	21.3	22.0	22.2	22.4	23.1	22.7	23.3	23.5
x=2H y=4H	21.0	21.7	21.3	21.9	22.2	22.5	23.1	22.8	23.4	23.6
x=2H y=6H	21.0	21.6	21.3	21.8	22.1	22.5	23.1	22.8	23.4	23.6
x=2H y=8H	20.9	21.5	21.3	21.8	22.1	22.5	23.0	22.8	23.3	23.6
x=2H y=12H	20.9	21.4	21.3	21.7	22.1	22.4	23.0	22.8	23.3	23.6
x=4H y=2H	21.2	21.8	21.5	22.1	22.3	22.1	22.8	22.4	23.0	23.3
x=4H y=3H	21.2	21.8	21.6	22.1	22.4	22.5	23.0	22.9	23.3	23.6
x=4H y=4H	21.2	21.7	21.6	22.0	22.3	22.6	23.1	23.0	23.4	23.8
x=4H y=6H	21.2	21.5	21.6	21.9	22.3	22.7	23.1	23.1	23.5	23.8
x=4H y=8H	21.1	21.5	21.5	21.9	22.3	22.7	23.0	23.1	23.4	23.8
x=4H y=12H	21.1	21.4	21.6	21.8	22.2	22.7	23.0	23.1	23.4	23.8
x=8H y=4H	21.2	21.5	21.6	21.9	22.3	22.6	22.9	23.0	23.3	23.7
x=8H y=6H	21.1	21.4	21.6	21.8	22.3	22.7	22.9	23.1	23.3	23.8
x=8H y=8H	21.1	21.3	21.6	21.8	22.2	22.7	22.9	23.1	23.3	23.8
x=8H y=12H	21.1	21.3	21.6	21.8	22.3	22.7	22.9	23.2	23.3	23.8
x=12H y=4H	21.3	21.6	21.7	22.0	22.4	22.6	22.9	23.0	23.3	23.7
x=12H y=6H	21.3	21.5	21.7	21.9	22.4	22.6	22.9	23.1	23.3	23.8
x=12H y=8H	21.2	21.4	21.7	21.9	22.4	22.7	22.8	23.2	23.3	23.8

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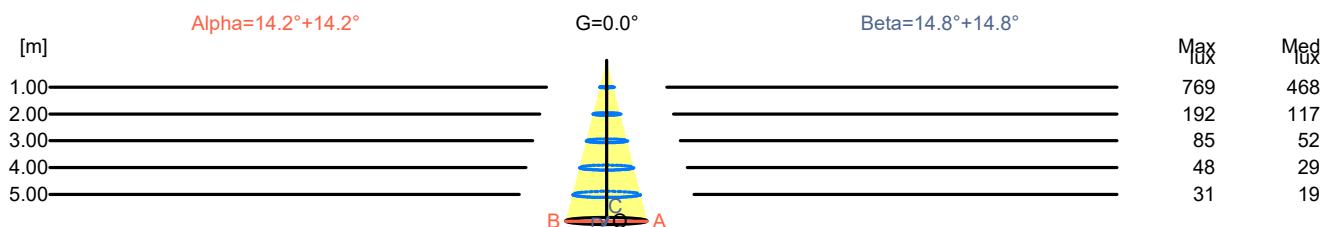
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Width at 50.00 % of Max Intensity

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	0.25	0.51	0.76	1.02	1.27	OC	0.26	0.53	0.79	1.06	1.32
OB	0.25	0.51	0.76	1.02	1.27	OD	0.26	0.53	0.79	1.06	1.32

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	769.38	678.61	355.83	143.01	51.55	20.06	8.68	2.25	0.60	0.30
OB	769.38	678.61	355.83	143.01	51.55	20.06	8.68	2.25	0.60	0.30
OC	769.38	704.12	379.01	150.94	56.79	25.11	11.84	5.26	1.90	0.38
OD	769.38	704.12	379.01	150.94	56.79	25.11	11.84	5.26	1.90	0.38



H[m]	D[m]	Max lux	Med lux	Alpha=14.2°+14.2°	G=0.0
1.00	0.51	769	468		
2.00	1.02	192	117		
3.00	1.52	85	52		
4.00	2.03	48	29		
5.00	2.54	31	19		

H[m]	D[m]	Max lux	Med lux	Beta=14.8°+14.8°	G=0.0
1.00	0.53	769	468		
2.00	1.06	192	117		
3.00	1.59	85	52		
4.00	2.12	48	29		
5.00	2.65	31	19		

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Flujo Total=304.99 Flujo Luminaria=304.99

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	0.65	0.71	0.76	0.81	0.84	0.89	0.92	0.95	0.97	0.98	1.00	1.01
RC	-	-	-	-	-	-	-	-	-	-	-	-

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)	201	537	767	887	948	980	994	999	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

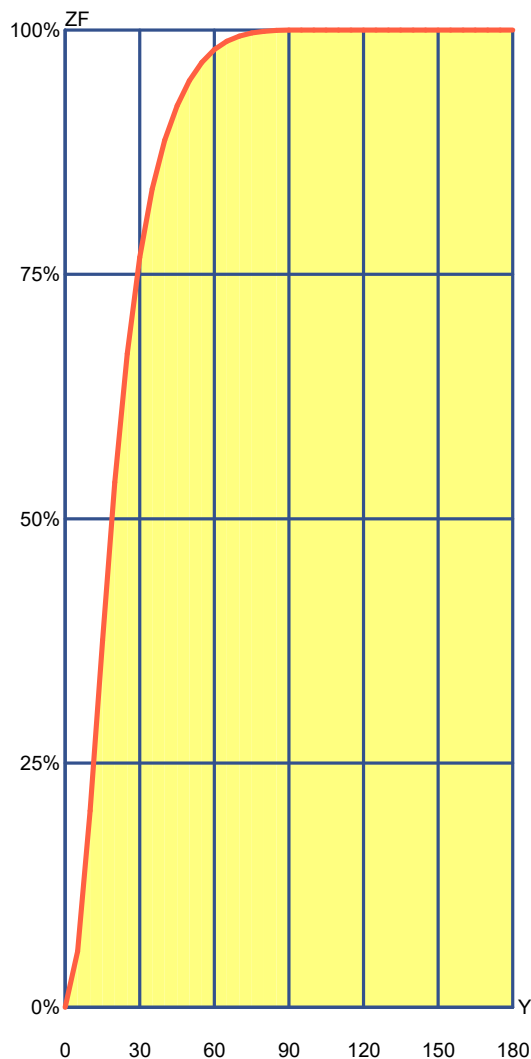
Códigos de Flujo C.I.E.

90 98 100 100 100

C.I.E.
D DIN 5040
F UTE
B NBN
RN
BLF

-/-/-/-/-/-/-/-/-/-
A60
1.00 A
BZ 1
0.00000 %
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°	57.21	57.21	5.72 %	5.72 %
10°	143.80	201.01	14.38 %	20.10 %
15°	174.76	375.77	17.48 %	37.58 %
20°	161.49	537.26	16.15 %	53.73 %
25°	131.61	668.88	13.16 %	66.89 %
30°	98.54	767.41	9.85 %	76.74 %
35°	70.18	837.59	7.02 %	83.76 %
40°	49.65	887.24	4.96 %	88.72 %
45°	35.36	922.60	3.54 %	92.26 %
50°	25.63	948.23	2.56 %	94.82 %
55°	18.79	967.02	1.88 %	96.70 %
60°	13.12	980.14	1.31 %	98.01 %
65°	8.51	988.65	0.85 %	98.87 %
70°	5.23	993.89	0.52 %	99.39 %
75°	3.12	997.01	0.31 %	99.70 %
80°	1.70	998.70	0.17 %	99.87 %
85°	0.84	999.54	0.08 %	99.95 %
90°	0.46	1000.00	0.05 %	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

