

Luminaire

Code A646-091
Name LAB 2 2020 GRAPHITE GREY

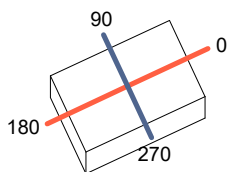
Measurement

Code CL041A21F024G
Name LAB 2 2020 GRAPHITE GREY

Luminaire Flux	322.83 lm	Luminaire Power	8.96 W	Efficacy	36.01 lm/W	Efficiency	100.00%
Sources Flux	322.83 lm	Maximum value	836.71 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		0.000491 m2		Emitting area on Plane 180°		0.000000 m2	
Emitting area on Plane 0°		0.000000 m2		Emitting area on Plane 270°		0.000000 m2	
Emitting area on Plane 90°		0.000000 m2		Glare area at 76°		0.000119 m2	
Coordinate system		CG		Symmetry Type		Double Symmetrical	
Date		29-03-2021		Maximum Gamma Angle		90	
Measurement Distance		6.44		Measurement Flux		322.83 lm	
Operator		Asselum T2		Rated Voltage		230.26 V	
Temperature		25.00 °C		Rated Current		0.09 A	
Humidity				Photocell		Prc	
Notes		RM21032206.2					

Luminaire Sources						
Line		Code LED	Name LED	Flux [lm] 322.83	Pow. [W] 8.96	Q.ty 1
C.I.E.	89 98 100 100 100		D DIN 5040	A60		
F UTE	1.00 A		B NBN	BZ 1		

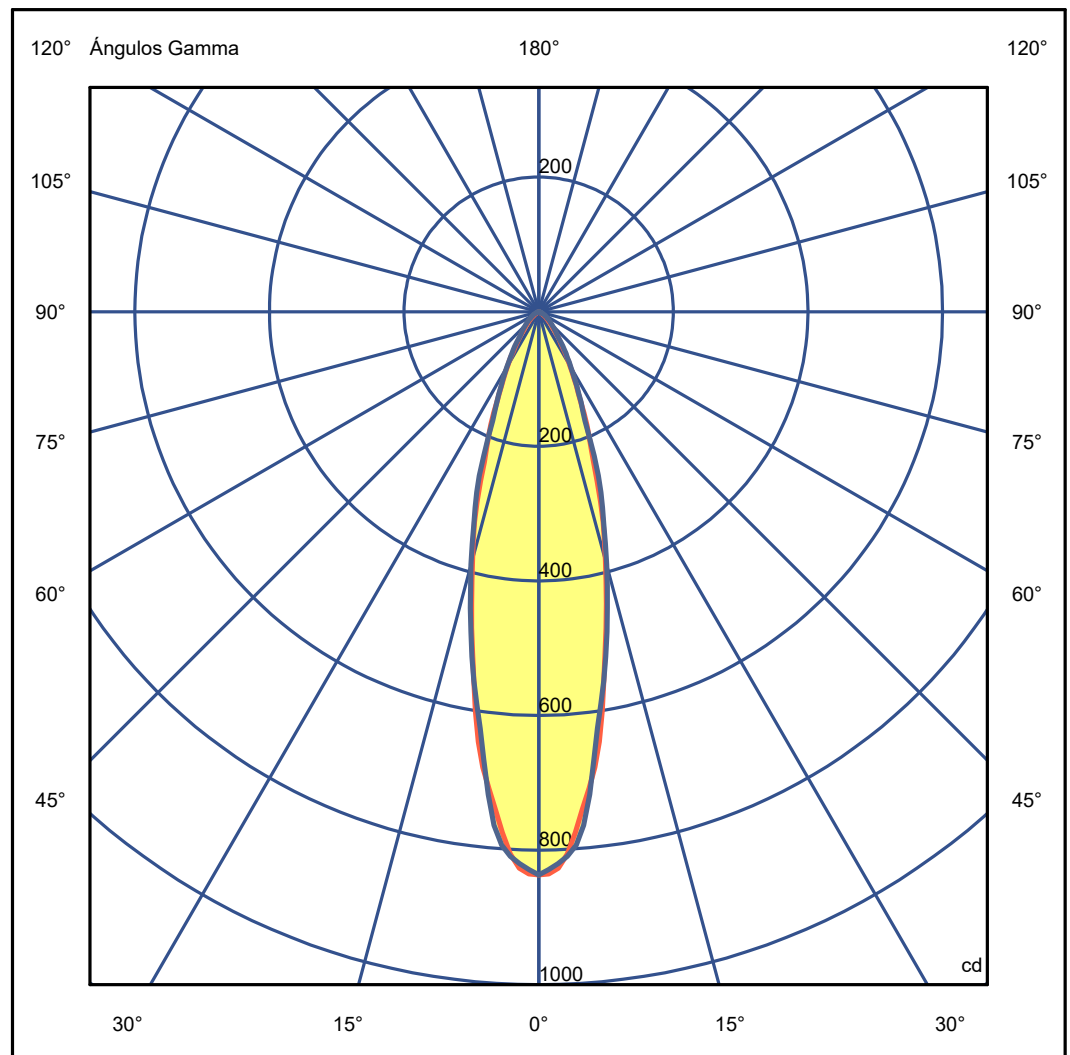
80mm x 125mm



Semiplanos C

180.0 — 0.0
270.0 — 90.0

ULOR 0.00 %
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	836.71	836.71	836.71	836.71	836.71	836.71	836.71
G 2.5	818.83	816.43	812.09	815.57	816.89	817.91	815.71
G 5.0	741.86	754.94	756.33	762.38	757.84	755.44	765.61
G 7.5	664.77	669.54	655.51	673.64	665.35	676.74	646.34
G 10.0	556.33	570.47	565.89	574.79	562.88	581.91	556.42
G 12.5	462.24	469.21	477.32	473.20	469.00	478.01	468.85
G 15.0	381.32	388.92	383.21	393.90	388.38	396.22	388.96
G 17.5	312.27	314.79	307.47	314.76	317.65	324.26	318.04
G 20.0	237.18	250.11	249.92	252.86	249.89	247.42	258.93
G 22.5	191.14	199.77	190.34	192.75	192.16	198.92	186.17
G 25.0	147.85	154.44	152.10	155.42	147.31	153.98	148.04
G 27.5	116.75	119.93	121.56	121.10	118.31	121.12	118.54
G 30.0	93.60	96.63	92.07	96.91	94.91	96.83	95.12
G 32.5	73.13	74.72	73.98	75.17	76.79	75.91	76.94
G 35.0	57.26	58.69	59.55	61.05	60.56	59.96	62.03
G 37.5	46.51	46.33	46.54	46.98	48.13	49.47	47.59
G 40.0	35.17	36.86	38.35	38.58	38.63	38.92	40.03
G 42.5	28.78	29.94	30.88	31.69	32.47	32.93	33.74
G 45.0	23.50	24.50	24.97	26.52	27.42	27.75	28.37
G 47.5	18.13	19.57	20.72	21.98	22.91	22.84	24.15
G 50.0	14.87	15.68	17.12	18.23	19.11	19.63	20.57
G 52.5	12.03	12.52	13.53	15.32	16.06	16.93	16.77
G 55.0	9.15	9.73	11.05	12.88	13.60	14.18	14.28
G 57.5	7.02	7.61	8.61	10.53	11.51	12.09	11.99
G 60.0	5.29	5.70	6.70	8.42	9.51	10.25	9.84
G 62.5	3.36	4.03	5.20	6.64	7.56	7.79	8.11
G 65.0	2.36	2.90	3.64	4.94	5.87	6.23	5.80
G 67.5	1.55	1.94	2.75	3.67	4.49	4.81	4.73
G 70.0	1.12	1.40	2.02	2.70	3.53	3.67	3.74
G 72.5	0.83	1.05	1.38	2.06	2.78	2.89	2.96
G 75.0	0.60	0.76	1.00	1.48	2.18	2.26	2.32
G 77.5	0.37	0.56	0.73	1.11	1.63	1.64	1.73
G 80.0	0.29	0.44	0.54	0.84	1.23	1.22	1.11
G 82.5	0.29	0.38	0.46	0.67	0.84	0.76	0.76
G 85.0	0.27	0.40	0.52	0.67	0.55	0.51	0.44
G 87.5	0.18	0.36	0.43	0.48	0.38	0.34	0.27
G 90.0	0.18	0.31	0.36	0.38	0.33	0.27	0.23

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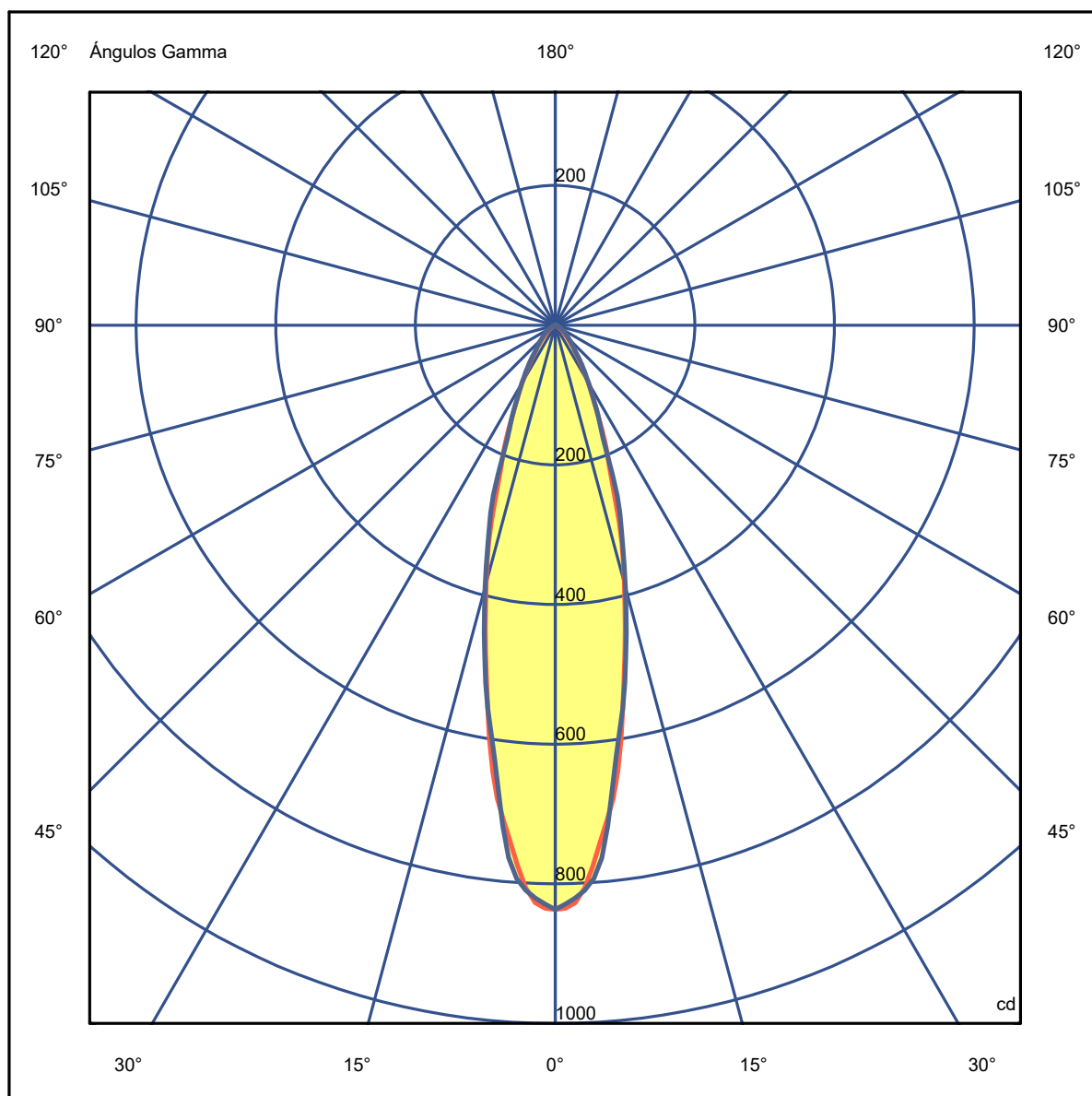
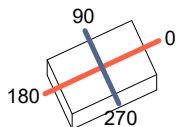
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Sources Flux	322.83 lm	Maximum value	836.71 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

80mm x 125mm

Semiplanos C

180.0 ————— 0.0
270.0 ————— 90.0



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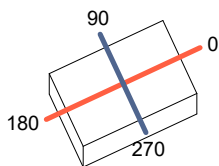
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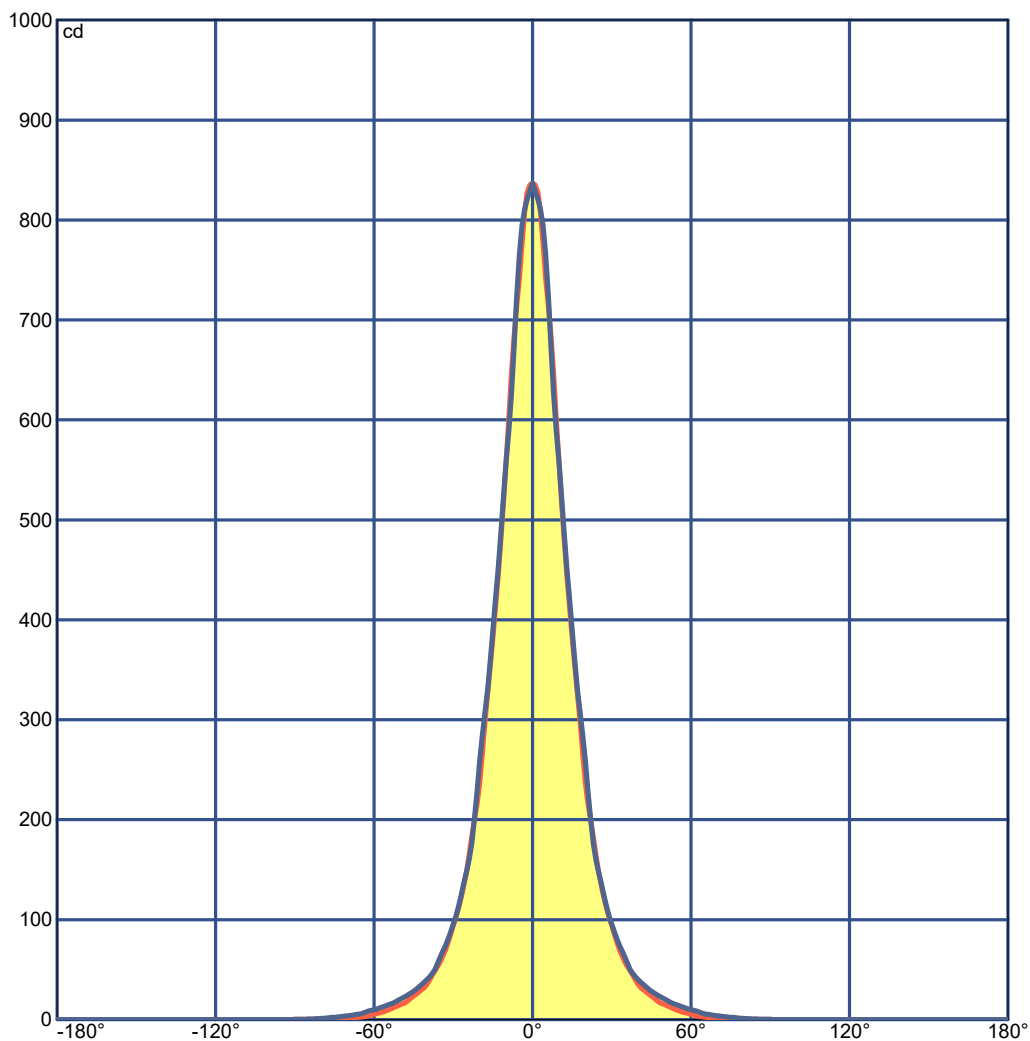
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UGR
 S = 0.250

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	21.4	22.2	21.7	22.4	22.6	22.7	23.4	22.9	23.6	23.8
x=2H y=3H	21.4	22.1	21.7	22.3	22.6	23.0	23.7	23.3	23.9	24.1
x=2H y=4H	21.4	22.0	21.7	22.3	22.5	23.1	23.7	23.4	24.0	24.2
x=2H y=6H	21.3	21.9	21.6	22.2	22.4	23.1	23.7	23.4	24.0	24.2
x=2H y=8H	21.3	21.8	21.6	22.1	22.4	23.1	23.7	23.4	24.0	24.3
x=2H y=12H	21.2	21.8	21.6	22.1	22.4	23.1	23.6	23.4	23.9	24.2
x=4H y=2H	21.6	22.2	21.9	22.5	22.8	22.7	23.4	23.0	23.6	23.9
x=4H y=3H	21.6	22.2	22.0	22.5	22.8	23.1	23.7	23.5	24.0	24.3
x=4H y=4H	21.6	22.1	22.0	22.4	22.7	23.3	23.7	23.6	24.1	24.4
x=4H y=6H	21.5	21.9	21.9	22.3	22.7	23.4	23.8	23.8	24.1	24.5
x=4H y=8H	21.5	21.9	21.9	22.2	22.6	23.4	23.7	23.8	24.1	24.5
x=4H y=12H	21.5	21.8	21.9	22.2	22.6	23.4	23.7	23.8	24.1	24.5
x=8H y=4H	21.6	21.9	22.0	22.3	22.7	23.2	23.6	23.6	24.0	24.4
x=8H y=6H	21.5	21.8	22.0	22.2	22.7	23.4	23.6	23.8	24.0	24.5
x=8H y=8H	21.5	21.7	22.0	22.2	22.7	23.4	23.6	23.9	24.1	24.5
x=8H y=12H	21.5	21.7	22.0	22.2	22.7	23.4	23.6	23.9	24.1	24.6
x=12H y=4H	21.7	22.0	22.2	22.4	22.9	23.2	23.5	23.6	23.9	24.3
x=12H y=6H	21.7	21.9	22.2	22.4	22.8	23.3	23.6	23.8	24.0	24.5
x=12H y=8H	21.7	21.9	22.2	22.4	22.8	23.4	23.6	23.9	24.0	24.5

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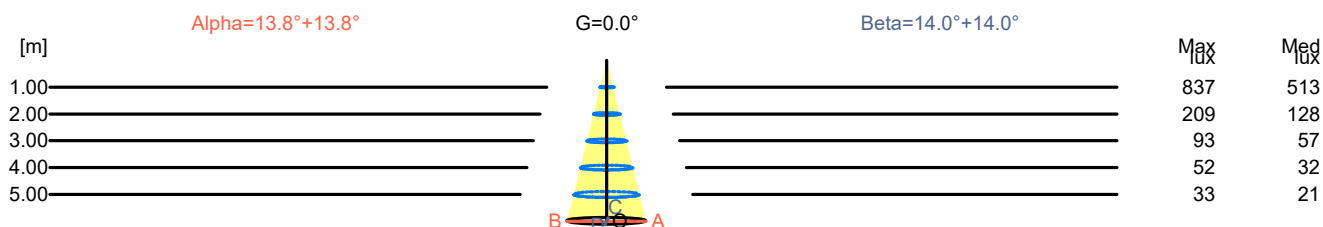
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Sources Flux	322.83 lm	Maximum value	836.71 cd	Position	C=0.00 G=0.00	CG Double Symmetrical	

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	0.25	0.49	0.74	0.98	1.23	OC	0.25	0.50	0.75	1.00	1.25
OB	0.25	0.49	0.74	0.98	1.23	OD	0.25	0.50	0.75	1.00	1.25

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	836.71	741.86	381.32	147.85	57.26	23.50	9.15	2.36	0.60	0.27
OB	836.71	741.86	381.32	147.85	57.26	23.50	9.15	2.36	0.60	0.27
OC	836.71	765.61	388.96	148.04	62.03	28.37	14.28	5.80	2.32	0.44
OD	836.71	765.61	388.96	148.04	62.03	28.37	14.28	5.80	2.32	0.44



H[m]	D[m]	Max lux	Med lux	Alpha=13.8°+13.8°	G=0.0
1.00	0.49	837	513		
2.00	0.98	209	128		
3.00	1.47	93	57		
4.00	1.97	52	32		
5.00	2.46	33	21		

H[m]	D[m]	Max lux	Med lux	Beta=14.0°+14.0°	G=0.0
1.00	0.50	837	513		
2.00	1.00	209	128		
3.00	1.50	93	57		
4.00	2.00	52	32		
5.00	2.50	33	21		

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Flujo Total=322.83 Flujo Luminaria=322.83

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	0.70	0.76	0.80	0.83	0.89	0.92	0.94	0.96	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)	205	539	761	880	944	978	993	998	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

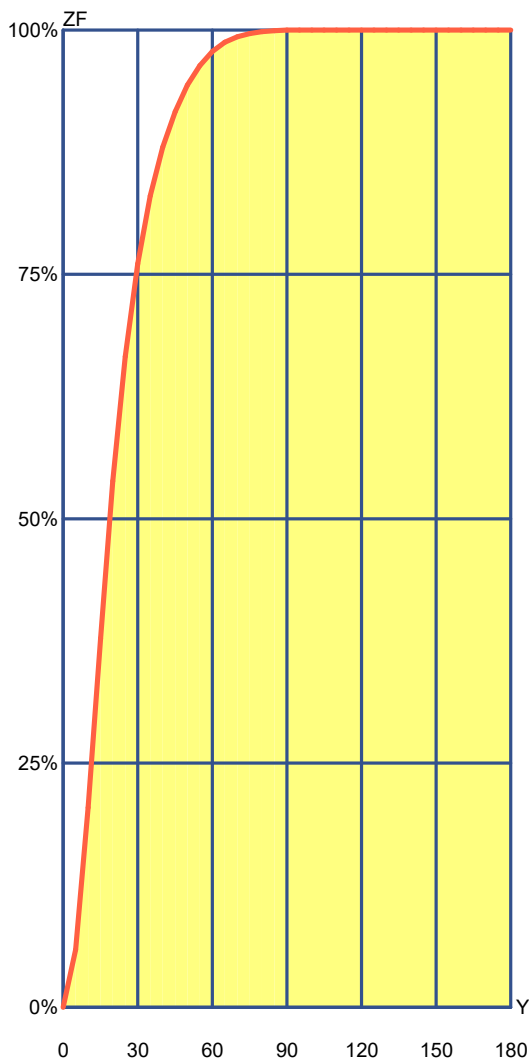
Códigos de Flujo C.I.E.

89 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°	58.98	58.98	5.90 %	5.90 %
10°	145.52	204.50	14.55 %	20.45 %
15°	173.13	377.63	17.31 %	37.76 %
20°	160.92	538.55	16.09 %	53.86 %
25°	127.35	665.90	12.73 %	66.59 %
30°	95.00	760.90	9.50 %	76.09 %
35°	69.45	830.35	6.95 %	83.03 %
40°	49.69	880.03	4.97 %	88.00 %
45°	36.45	916.49	3.65 %	91.65 %
50°	27.22	943.71	2.72 %	94.37 %
55°	20.07	963.78	2.01 %	96.38 %
60°	14.36	978.14	1.44 %	97.81 %
65°	9.38	987.52	0.94 %	98.75 %
70°	5.55	993.07	0.55 %	99.31 %
75°	3.30	996.37	0.33 %	99.64 %
80°	1.90	998.27	0.19 %	99.83 %
85°	1.07	999.34	0.11 %	99.93 %
90°	0.66	1000.00	0.07 %	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

