

**Luminaria**

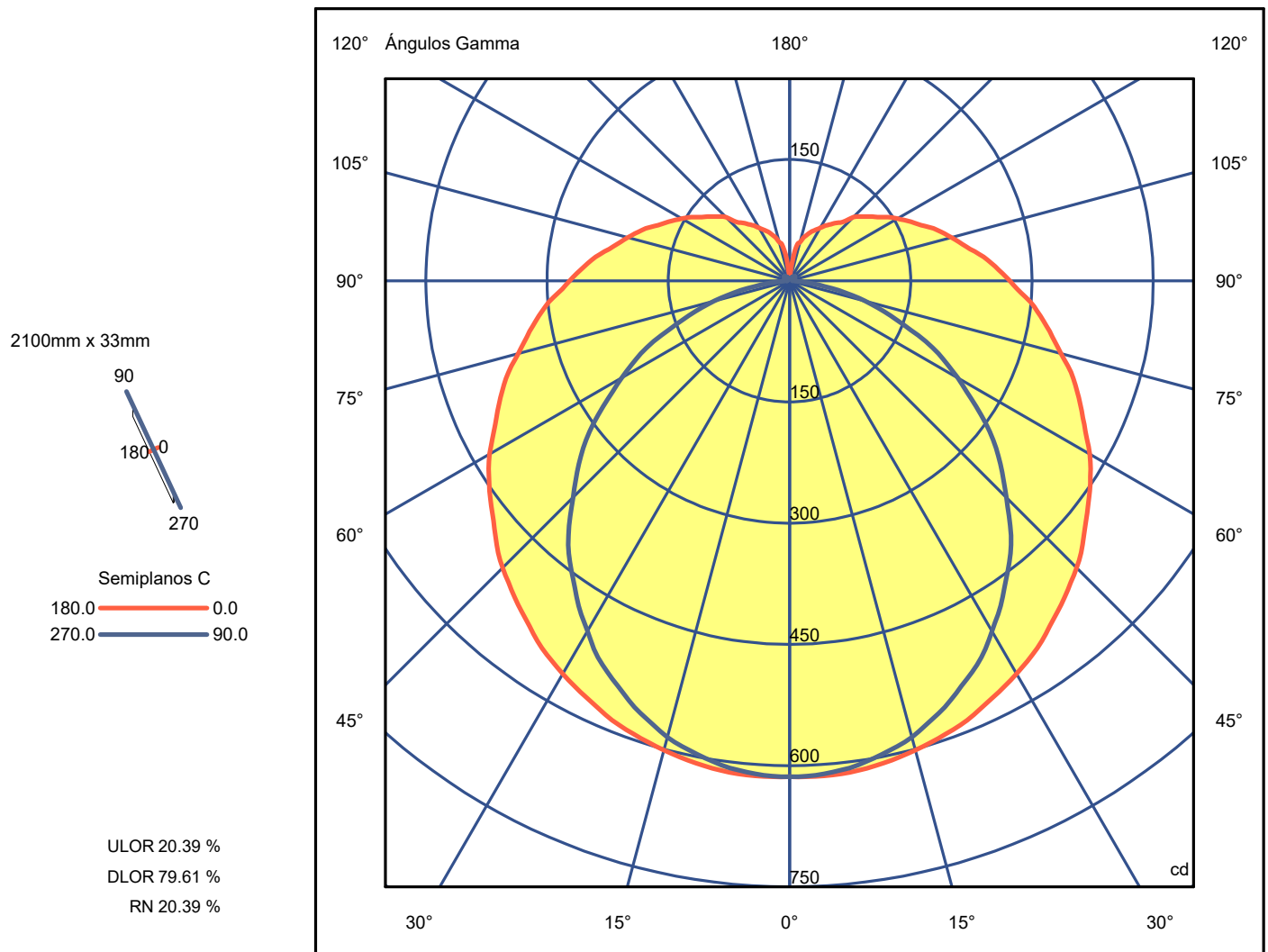
Código A704-003-16-27K  
Nombre AMBROSIA 210 BLACK 27K

**Ensayo**

Código CL041A21F030G  
Nombre AMBROSIA 210 BLACK 27K

Flujo Luminaria	2812.99 lm	Potencia Luminaria	32.17 W	Eficacia	87.43 lm/W	Eficiencia	100.00%
Flujo Fuentes de luz	2812.99 lm	Valor Máximo	614.07 cd	Posición	C=0.00 G=2.50	CG Bisimétrico	
Luminaria Rectangular		Longit.	2100 mm	Anchura	33 mm	Altura	33 mm
Área Luminosa Rectangular		Longit.	2100 mm	Anchura	30 mm	Altura	30 mm
Área Luminosa Horizontal		0.063000 m2		Área Emisión sobre Pl. 180°		0.063000 m2	
Área Emisión sobre Pl. 0°		0.063000 m2		Área Emisión sobre Pl. 270°		0.000900 m2	
Área Emisión sobre Pl. 90°		0.000900 m2		Área de deslumbramiento a 76°		0.076370 m2	
Sist. de Coordn.		CG		Tipo de Simetría		Bisimétrico	
Fecha		09-09-2021		Máximo Ángulo Gamma		180	
Distancia de Ensayo		6.44		Flujo de Ensayo		2812.99 lm	
Operador		Asselum T2		Tensión Nominal		230.20 V	
Temperatura		25.10 °C		Corriente Nominal		0.11 A	
Humedad		64.50 %		Fotocélula		Prc	
Notas		RM21070714; RM21070712					

Fuentes de luz de la Luminaria						
Familia	Código LED	Nombre LED 24V	Flujo [lm]	Pot. [W]	Cant.	
C.I.E.	38 66 86 80 100		2812.99	21.47	1	
F UTE	0.80 H + 0.20 T					
		D DIN 5040 B NBN	B21 BZ 6			



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Tabla de Intensidad Luminosa cd

Tabla 1/1

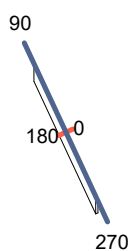
	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	613.70	613.70	613.70	613.70	613.70	613.70	613.70
G 2.5	614.07	613.36	613.82	613.02	613.32	612.88	612.97
G 5.0	613.57	613.03	612.98	611.90	611.50	610.65	610.11
G 7.5	612.27	611.02	611.09	609.22	608.36	606.96	606.24
G 10.0	609.37	608.07	607.71	605.16	603.67	601.66	599.69
G 12.5	605.61	604.31	602.88	599.68	597.33	594.27	592.73
G 15.0	601.21	599.94	597.06	593.21	589.37	585.40	584.53
G 17.5	596.24	594.48	590.68	585.33	580.06	575.36	572.77
G 20.0	591.02	587.50	583.63	576.66	569.86	564.38	561.33
G 22.5	584.81	580.75	575.71	566.78	558.97	552.42	547.11
G 25.0	576.50	573.43	566.52	556.32	545.82	537.31	533.92
G 27.5	569.27	565.75	556.38	544.98	532.31	522.22	519.38
G 30.0	561.45	556.05	546.02	532.46	517.50	506.01	500.45
G 32.5	553.33	546.82	536.09	519.55	502.15	489.22	483.08
G 35.0	543.96	536.57	524.53	505.73	487.19	472.65	463.51
G 37.5	532.73	526.77	512.24	491.63	469.50	452.07	445.21
G 40.0	522.93	516.42	499.19	477.29	452.39	431.83	426.35
G 42.5	512.22	504.19	486.12	460.85	433.76	412.14	402.75
G 45.0	502.19	492.03	473.68	446.14	415.97	392.16	379.13
G 47.5	490.56	480.06	460.31	430.00	398.16	371.99	357.79
G 50.0	476.69	468.07	445.85	413.54	377.93	348.66	337.10
G 52.5	464.66	455.69	431.10	398.50	359.53	326.17	315.01
G 55.0	453.27	442.41	417.31	381.02	339.71	304.43	289.14
G 57.5	441.43	428.82	403.67	365.02	320.44	282.62	262.80
G 60.0	428.70	415.95	390.08	349.00	302.68	260.37	239.98
G 62.5	413.69	403.05	375.15	333.01	282.08	236.99	217.39
G 65.0	400.43	390.02	360.05	317.99	264.10	214.36	195.31
G 67.5	388.38	376.34	346.60	301.32	246.67	192.50	166.88
G 70.0	376.10	362.29	333.80	286.43	227.01	171.21	141.21
G 72.5	363.08	349.72	320.16	271.71	210.62	150.22	118.07
G 75.0	347.69	337.10	306.03	257.34	193.48	129.56	96.75
G 77.5	334.78	324.63	292.79	244.15	177.80	110.45	75.67
G 80.0	322.90	311.33	280.15	229.78	162.46	92.92	53.26
G 82.5	310.94	298.06	268.08	217.48	148.73	77.71	32.88
G 85.0	298.90	286.21	256.50	205.39	136.76	63.76	18.38
G 87.5	284.06	274.35	243.44	193.47	124.52	52.88	8.42
G 90.0	272.37	262.72	232.12	183.35	115.43	44.81	3.69
G 92.5	261.22	250.38	220.69	172.24	107.54	40.17	3.08
G 95.0	250.65	238.28	209.84	162.20	99.96	36.54	3.26
G 97.5	239.62	227.47	199.68	153.74	93.66	33.50	3.61
G100.0	226.72	217.51	189.41	145.43	87.59	31.32	3.99
G102.5	216.60	207.40	180.15	138.17	82.59	29.80	4.41
G105.0	207.42	197.57	171.34	130.52	78.17	28.88	4.95
G107.5	198.46	187.42	162.97	123.67	74.22	28.23	5.56
G110.0	189.46	178.72	155.18	117.55	70.64	27.71	5.94
G112.5	178.52	170.50	147.21	111.77	67.06	27.51	6.36
G115.0	170.12	162.45	139.94	106.27	64.47	27.53	6.83
G117.5	161.89	154.01	133.05	101.25	61.90	27.52	7.43
G120.0	154.00	145.56	126.52	96.44	58.13	27.42	7.96
G122.5	146.68	138.57	120.60	92.14	55.39	27.24	8.19
G125.0	137.59	131.93	114.35	87.07	53.53	27.20	8.44
G127.5	130.55	125.08	108.55	82.21	52.00	27.17	8.57
G130.0	124.05	118.20	102.96	77.45	50.62	27.26	8.57
G132.5	117.58	110.52	95.70	73.49	48.89	27.17	8.42
G135.0	111.36	104.12	89.77	70.09	46.99	26.83	8.12
G137.5	99.52	96.89	84.65	67.07	45.41	26.38	7.69
G140.0	94.14	91.13	80.59	63.90	44.13	25.89	7.21
G142.5	89.44	86.10	77.19	60.67	42.90	25.51	6.59
G145.0	84.89	81.55	73.48	57.65	41.25	25.15	5.90
G147.5	80.67	77.21	69.29	55.08	39.31	24.74	5.36
G150.0	75.69	73.26	64.81	52.50	37.76	24.22	4.81
G152.5	71.73	69.60	60.17	49.99	36.70	23.52	4.21
G155.0	68.10	65.34	56.13	47.70	35.26	22.77	3.68
G157.5	64.48	59.90	52.78	45.40	33.90	21.85	3.26
G160.0	59.82	55.10	49.26	43.00	32.59	20.19	2.89
G162.5	55.63	50.90	45.36	40.11	31.66	18.58	2.83
G165.0	49.61	46.09	41.39	38.07	31.35	17.38	2.79
G167.5	47.23	40.24	37.46	35.43	29.43	16.94	2.77
G170.0	38.67	35.24	33.97	28.59	22.24	15.92	2.73
G172.5	23.25	25.59	28.18	25.58	19.74	12.93	2.68
G175.0	8.22	17.58	16.68	18.01	17.65	8.44	2.64
G177.5	5.99	8.29	10.84	10.13	7.41	4.11	2.62
G180.0	3.13	3.13	3.13	3.13	3.13	3.13	3.13

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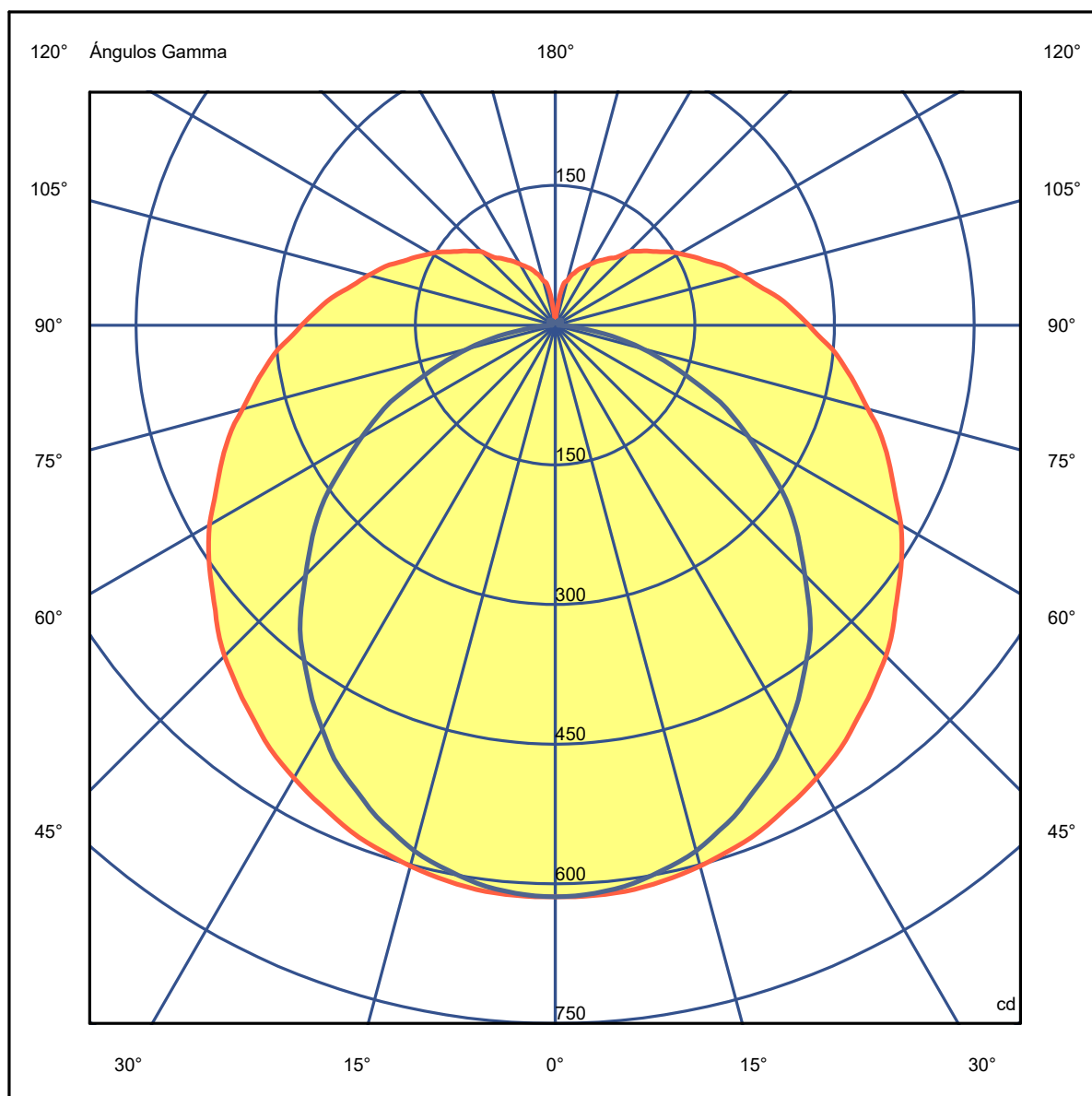
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2100mm x 33mm



Semiplanos C

180.0 ————— 0.0  
270.0 ————— 90.0



**Luminaria**

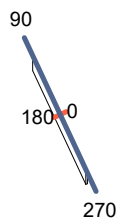
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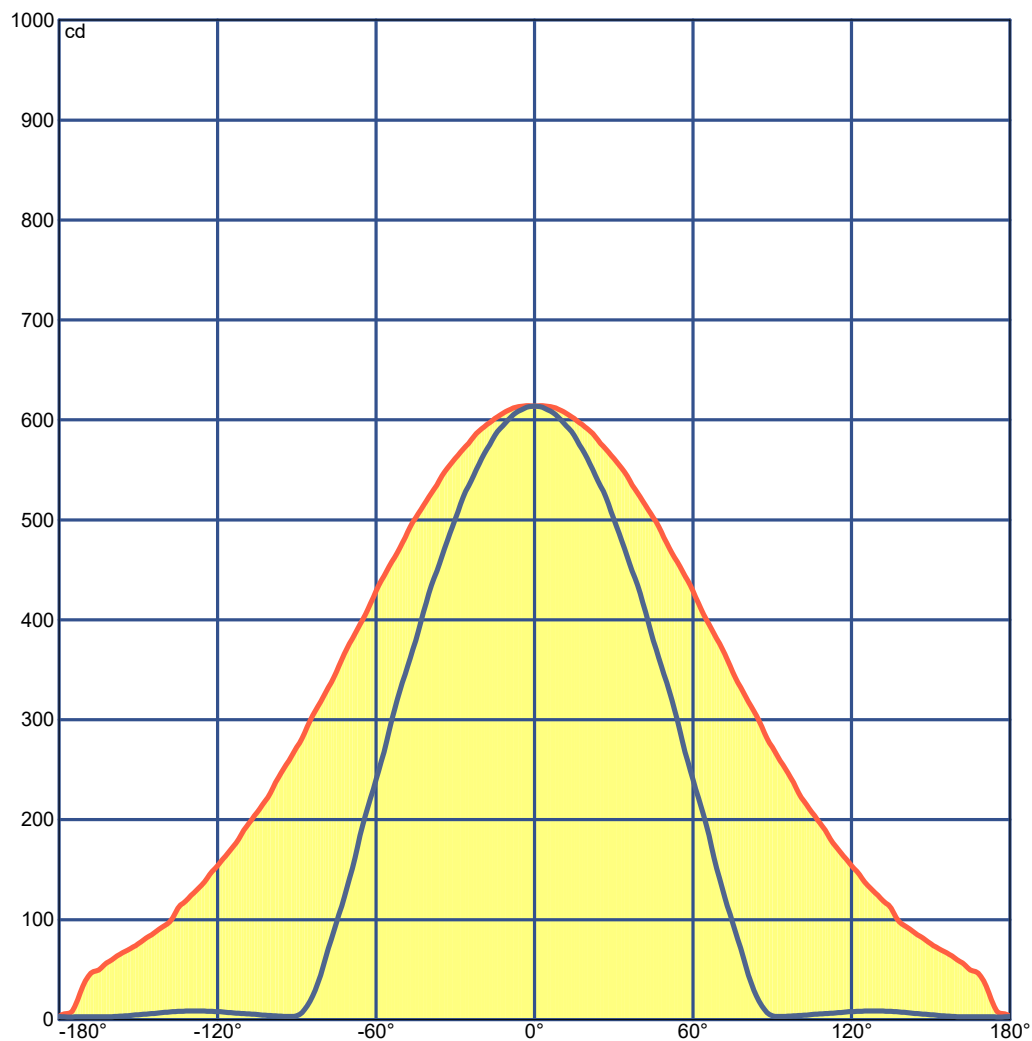
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**UGR**  
 S = 0.250

Reflectancias										
Techo/Cavidad	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Paredes	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
PDT	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Dimensiones del Local						Vista Longitudinal				
x=2H y=2H	17.4	18.6	18.0	19.2	19.8	16.8	18.0	17.4	18.5	19.2
x=2H y=3H	19.5	20.6	20.1	21.2	21.9	18.2	19.3	18.8	19.8	20.5
x=2H y=4H	20.6	21.6	21.2	22.2	22.9	18.7	19.7	19.3	20.3	21.0
x=2H y=6H	21.6	22.5	22.2	23.1	23.9	19.0	20.0	19.7	20.6	21.4
x=2H y=8H	22.0	23.0	22.7	23.6	24.3	19.1	20.0	19.8	20.7	21.4
x=2H y=12H	22.5	23.4	23.2	24.0	24.8	19.2	20.0	19.8	20.7	21.4
x=4H y=2H	18.0	19.0	18.6	19.6	20.4	17.5	18.5	18.1	19.1	19.8
x=4H y=3H	20.3	21.2	21.0	21.8	22.6	19.1	20.0	19.8	20.6	21.4
x=4H y=4H	21.5	22.3	22.2	23.0	23.8	19.8	20.6	20.5	21.3	22.0
x=4H y=6H	22.7	23.4	23.4	24.1	25.0	20.3	21.0	21.0	21.7	22.5
x=4H y=8H	23.3	24.0	24.0	24.7	25.5	20.4	21.1	21.1	21.8	22.6
x=4H y=12H	23.9	24.5	24.6	25.2	26.1	20.5	21.1	21.2	21.8	22.6
x=8H y=4H	21.8	22.5	22.6	23.2	24.0	20.4	21.0	21.1	21.7	22.5
x=8H y=6H	23.3	23.8	24.0	24.6	25.4	21.1	21.6	21.8	22.4	23.2
x=8H y=8H	24.0	24.5	24.8	25.3	26.2	21.4	21.9	22.1	22.6	23.5
x=8H y=12H	24.8	25.2	25.6	26.0	26.9	21.6	22.0	22.3	22.8	23.7
x=12H y=4H	22.1	22.7	22.8	23.4	24.3	21.6	22.2	22.3	22.9	23.8
x=12H y=6H	23.5	24.0	24.3	24.8	25.6	22.2	22.7	23.0	23.5	24.3
x=12H y=8H	24.3	24.7	25.1	25.5	26.4	22.5	22.9	23.3	23.7	24.6

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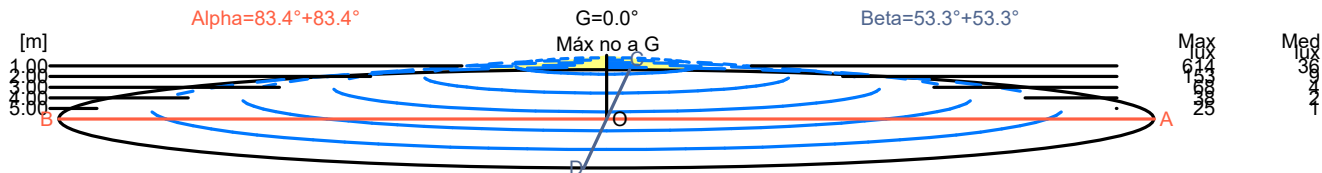
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## Apertura a 50.00 % de Max Intensidad

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	8.58	17.16	25.73	34.31	42.89	OC	1.34	2.68	4.02	5.37	6.71
OB	8.58	17.16	25.73	34.31	42.89	OD	1.34	2.68	4.02	5.37	6.71

	0	5	15	25	35	45	55	65	75	85
OA	613.70	613.57	601.21	576.50	543.96	502.19	453.27	400.43	347.69	298.90
OB	613.70	613.57	601.21	576.50	543.96	502.19	453.27	400.43	347.69	298.90
OC	613.70	610.11	584.53	533.92	463.51	379.13	289.14	195.31	96.75	18.38
OD	613.70	610.11	584.53	533.92	463.51	379.13	289.14	195.31	96.75	18.38



H[m]	D[m]	Max lux	Med lux	Alpha=83.4°+83.4°	G=0.0 Máx no a G
1.00	17.16	614	36		
2.00	34.31	153	9		
3.00	51.47	68	4		
4.00	68.62	38	2		
5.00	85.78	25	1		

H[m]	D[m]	Max lux	Med lux	Beta=53.3°+53.3°	G=0.0 Máx no a G
1.00	2.68	614	36		
2.00	5.37	153	9		
3.00	8.05	68	4		
4.00	10.73	38	2		
5.00	13.42	25	1		

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Flujo Total=2812.99 Flujo Luminaria=2812.99

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	0.24	0.32	0.38	0.45	0.50	0.58	0.64	0.68	0.74	0.78	0.87	0.92
RC	7	7	7	7	7	7	7	7	7	7	7	7

Flujo Zonal por 1000 Lúmenes

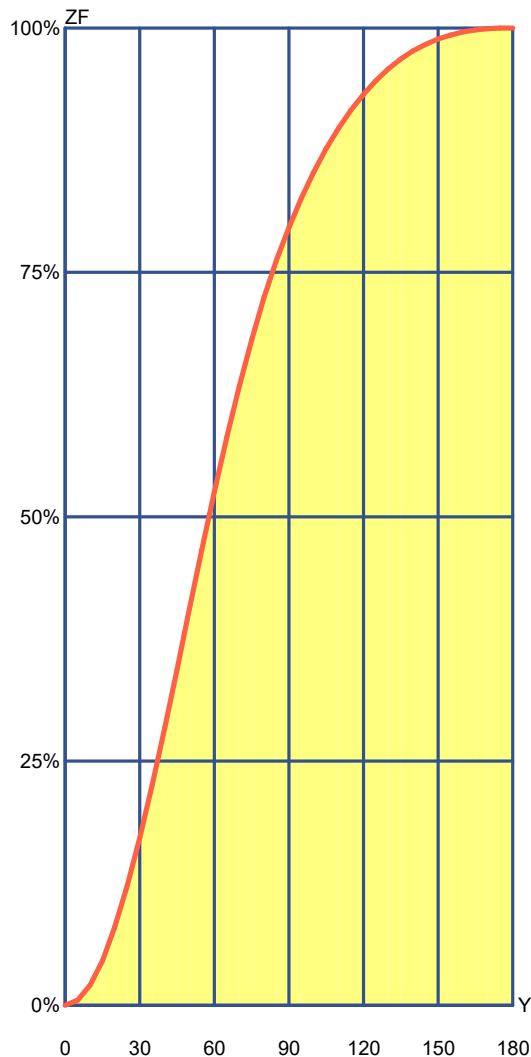
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	21	80	171	284	405	525	634	724	796	853	898	932	958	977	989	996	999	1000

Códigos de Flujo C.I.E.

38 66 86 80 100

C.I.E. 7  
D DIN 5040 B21  
F UTE 0.80 H + 0.20 T  
B NBN BZ 6  
RN 20.39058 %  
BLF 1.0

LOR 100.00000 %  
ULOR 20.39058 %  
DLOR 79.60942 %  
UFF 20.39058 %  
DFF 79.60942 %  
FFR 25.61327 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	5.21	5.21	0.52 %	0.52 %
10°	15.48	20.69	1.55 %	2.07 %
15°	25.26	45.95	2.53 %	4.60 %
20°	34.25	80.21	3.43 %	8.02 %
25°	42.22	122.42	4.22 %	12.24 %
30°	48.92	171.35	4.89 %	17.13 %
35°	54.26	225.61	5.43 %	22.56 %
40°	58.12	283.73	5.81 %	28.37 %
45°	60.43	344.16	6.04 %	34.42 %
50°	61.34	405.50	6.13 %	40.55 %
55°	60.78	466.27	6.08 %	46.63 %
60°	58.96	525.24	5.90 %	52.52 %
65°	56.07	581.31	5.61 %	58.13 %
70°	52.24	633.55	5.22 %	63.36 %
75°	47.78	681.33	4.78 %	68.13 %
80°	42.96	724.29	4.30 %	72.43 %
85°	38.12	762.40	3.81 %	76.24 %
90°	33.69	796.09	3.37 %	79.61 %
95°	29.99	826.08	3.00 %	82.61 %
100°	26.72	852.80	2.67 %	85.28 %
105°	23.76	876.56	2.38 %	87.66 %
110°	21.04	897.60	2.10 %	89.76 %
115°	18.53	916.13	1.85 %	91.61 %
120°	16.20	932.33	1.62 %	93.23 %
125°	14.01	946.34	1.40 %	94.63 %
130°	11.98	958.32	1.20 %	95.83 %
135°	10.05	968.37	1.00 %	96.84 %
140°	8.24	976.61	0.82 %	97.66 %
145°	6.73	983.35	0.67 %	98.33 %
150°	5.39	988.74	0.54 %	98.87 %
155°	4.17	992.91	0.42 %	99.29 %
160°	3.08	995.99	0.31 %	99.60 %
165°	2.11	998.10	0.21 %	99.81 %
170°	1.28	999.39	0.13 %	99.94 %
175°	0.53	999.92	0.05 %	99.99 %
180°	0.08	1000.00	0.01 %	100.00 %

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Isolux (Suelo)

Posición Luminaria X=0.00m Y=0.00m Z=2.50m

