

**Luminaria**

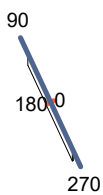
Código A704-004-16-27K  
Nombre AMBROSIA 315 BLACK 27K

**Ensayo**

Código CL041A21F031G  
Nombre AMBROSIA 315 BLACK 27K

Flujo Luminaria	4235.15 lm	Potencia Luminaria	46.71 W	Eficacia	90.67 lm/W	Eficiencia	100.00%
Flujo Fuentes de luz	4235.15 lm	Valor Máximo	934.19 cd	Posición	C=0.00 G=2.50	CG Bisimétrico	
Luminaria Rectangular		Longit.	3150 mm	Anchura	32 mm	Altura	32 mm
Área Luminosa Rectangular		Longit.	3150 mm	Anchura	30 mm	Altura	30 mm
Área Luminosa Horizontal		0.094500 m2		Área Emisión sobre Pl. 180°		0.094500 m2	
Área Emisión sobre Pl. 0°		0.094500 m2		Área Emisión sobre Pl. 270°		0.000900 m2	
Área Emisión sobre Pl. 90°		0.000900 m2		Área de deslumbramiento a 76°		0.114555 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		4235.15 lm	
Operador		ASSELUM		Tensión Nominal		230.20 V	
Temperatura		24.80 °C		Corriente Nominal		0.21 A	
Humedad		57.50 %		Fotocélula		Prc	
Notas		RM21070711; RM21070710					
<b>Fuentes de luz de la Luminaria</b>							
Familia		Código LED	Nombre LED 24V		Flujo [lm] 4235.15	Pot. [W] 46.71	Cant. 1
C.I.E.	38 66 86 80 100			D DIN 5040	B21		
F UTE	0.80 H + 0.20 T			B NBN	BZ 6		

3150mm x 32mm



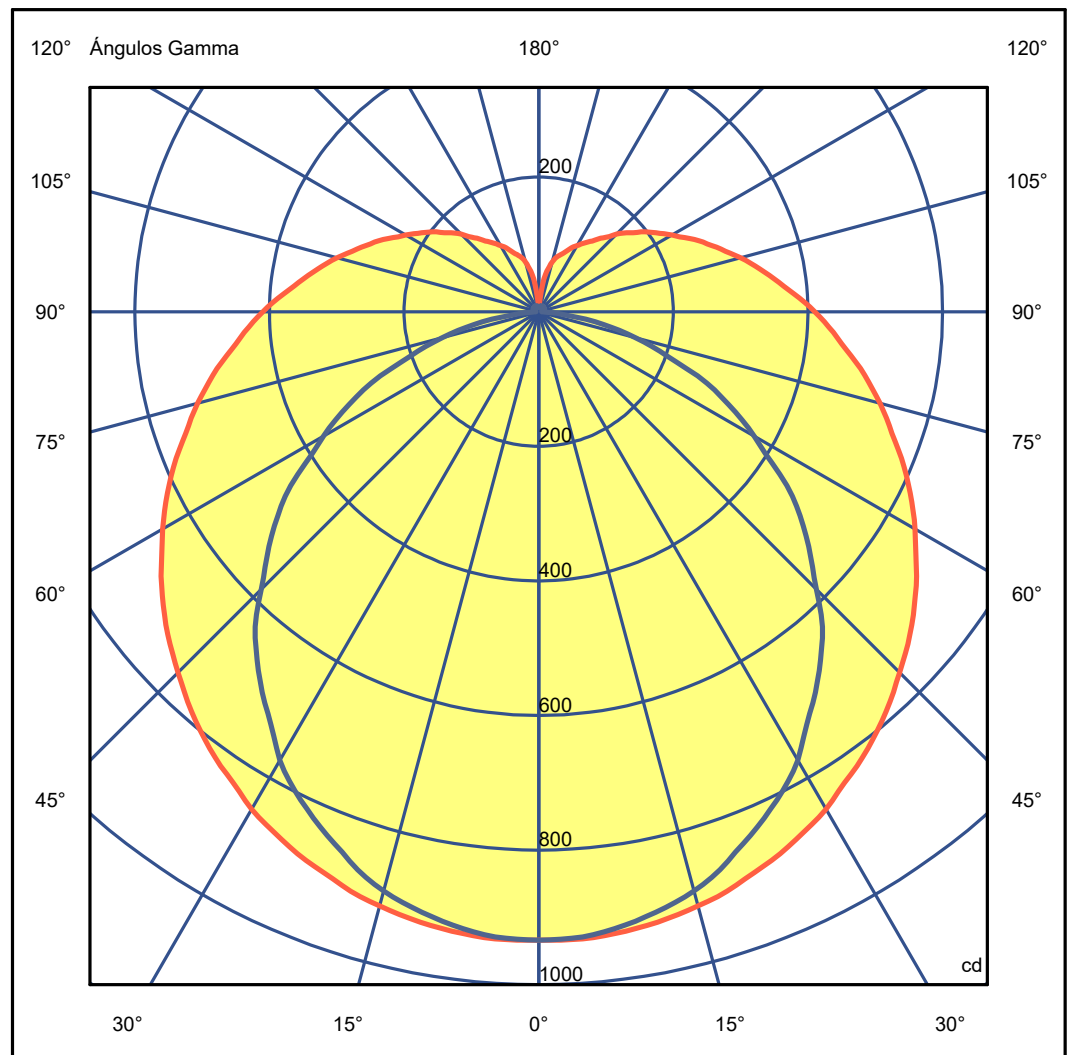
Semiplanos C

180.0 — 0.0  
270.0 — 90.0

ULOR 19.87 %

DLOR 80.13 %

RN 19.87 %



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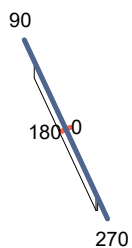
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Flujo Fuentes de luz	4235.15 lm	Valor Máximo	934.19 cd	Posición	C=0.00 G=2.50	CG Bisimétrico	
Tabla de Intensidad Luminosa cd				Tabla 1/1			
	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	933.70	933.70	933.70	933.70	933.70	933.70	933.70
G 2.5	934.19	933.76	933.25	932.83	932.62	932.60	932.61
G 5.0	933.26	932.55	931.65	930.73	930.08	929.41	929.11
G 7.5	929.94	929.30	928.31	926.77	924.66	922.73	921.88
G 10.0	925.82	924.47	922.51	920.14	916.93	914.16	912.98
G 12.5	920.23	918.15	915.47	912.59	908.22	904.40	902.77
G 15.0	913.95	911.17	907.51	903.55	897.84	892.93	890.85
G 17.5	907.04	902.81	897.11	890.70	883.56	877.82	875.44
G 20.0	896.34	891.56	885.35	878.08	867.86	858.89	854.48
G 22.5	887.23	881.85	873.24	862.09	849.75	839.52	835.24
G 25.0	876.82	870.47	860.44	847.39	832.68	820.38	815.23
G 27.5	864.96	857.73	846.18	831.11	814.15	799.99	794.06
G 30.0	853.69	844.00	829.55	811.54	791.94	775.87	769.21
G 32.5	836.91	827.48	812.51	791.94	767.21	745.80	736.68
G 35.0	823.98	812.55	794.11	769.86	742.33	719.22	709.53
G 37.5	809.18	796.51	776.23	749.46	718.85	693.07	682.23
G 40.0	793.38	779.63	757.52	728.13	694.29	665.66	653.61
G 42.5	776.07	760.30	735.61	703.31	666.53	635.60	622.62
G 45.0	757.84	742.27	716.88	681.17	637.46	599.28	582.94
G 47.5	741.00	723.43	694.30	654.42	607.31	566.91	549.78
G 50.0	723.35	704.87	674.21	631.76	580.93	537.05	518.37
G 52.5	704.20	684.61	652.21	607.14	552.84	505.81	485.76
G 55.0	685.01	664.44	630.21	582.02	523.29	472.12	450.25
G 57.5	663.96	643.30	607.54	554.99	488.65	429.86	404.52
G 60.0	645.20	624.11	586.80	531.13	460.09	396.83	369.50
G 62.5	625.80	604.48	566.23	508.00	432.38	364.51	335.08
G 65.0	605.71	584.23	545.12	484.25	403.80	331.01	299.33
G 67.5	585.42	563.65	523.40	459.68	374.40	296.82	262.97
G 70.0	563.22	542.63	502.24	434.90	341.60	255.48	217.65
G 72.5	543.64	523.33	482.35	412.39	313.96	222.54	182.27
G 75.0	524.92	505.36	464.38	392.18	288.54	191.52	148.64
G 77.5	504.74	485.75	444.82	370.89	263.20	161.79	116.86
G 80.0	485.37	466.68	425.30	349.29	237.52	131.91	85.04
G 82.5	463.96	447.07	406.96	329.43	212.15	100.17	50.25
G 85.0	445.59	429.00	388.86	310.64	191.88	78.33	27.67
G 87.5	427.97	411.79	372.22	294.48	175.96	62.46	11.80
G 90.0	410.06	393.33	353.78	277.68	162.88	53.36	4.56
G 92.5	391.55	373.95	334.41	261.02	152.49	49.73	4.08
G 95.0	372.79	354.92	316.09	245.85	143.49	47.10	4.39
G 97.5	356.41	338.18	299.85	232.32	135.48	44.86	4.81
G100.0	340.45	322.56	285.35	220.70	128.82	43.15	5.35
G102.5	325.64	306.88	269.85	207.72	121.20	41.19	6.01
G105.0	310.35	292.22	256.37	196.96	115.18	39.89	6.87
G107.5	294.38	276.66	242.27	185.99	109.12	38.58	7.67
G110.0	280.71	263.46	230.32	176.67	103.92	37.37	8.26
G112.5	267.42	251.00	219.48	168.51	99.47	36.36	8.76
G115.0	255.02	238.67	208.06	159.45	94.32	35.06	9.20
G117.5	239.82	225.15	197.06	151.71	90.32	34.21	9.66
G120.0	228.30	214.21	187.34	144.21	86.10	33.10	9.94
G122.5	216.68	203.50	178.25	137.47	82.28	31.84	9.80
G125.0	205.67	193.15	169.05	130.30	78.06	30.41	9.59
G127.5	195.35	182.59	158.93	121.93	72.98	28.70	9.42
G130.0	182.93	171.25	149.34	114.84	69.05	27.54	9.46
G132.5	173.66	162.01	140.28	107.16	64.45	26.26	9.72
G135.0	163.44	153.15	133.34	102.47	62.08	25.72	9.93
G137.5	150.83	142.83	125.85	97.87	59.93	25.27	10.11
G140.0	142.74	135.24	118.99	92.41	56.76	24.34	10.19
G142.5	133.53	127.54	113.20	88.68	54.93	23.92	10.32
G145.0	126.74	121.36	107.84	84.60	52.64	23.29	10.43
G147.5	120.02	115.45	103.12	81.37	50.92	22.77	10.41
G150.0	113.80	108.27	96.61	78.50	49.30	22.15	10.18
G152.5	108.14	102.90	91.78	74.66	46.99	21.29	9.98
G155.0	100.97	96.81	87.21	71.74	45.47	20.75	9.80
G157.5	94.09	89.77	81.15	68.56	43.66	19.99	9.46
G160.0	89.31	85.19	77.45	66.26	42.38	19.42	9.16
G162.5	84.67	81.07	74.03	63.42	40.67	18.70	8.84
G165.0	76.77	75.12	70.01	60.65	39.21	18.03	8.46
G167.5	67.26	69.82	67.68	58.06	37.91	17.40	7.98
G170.0	56.64	59.50	57.00	47.81	31.23	14.78	7.33
G172.5	36.68	43.69	47.75	44.00	30.29	14.48	6.89
G175.0	16.06	24.02	31.26	32.25	23.82	12.35	6.58
G177.5	12.03	15.89	19.11	19.00	14.96	9.39	6.42
G180.0	8.14	8.14	8.14	8.14	8.14	8.14	8.14

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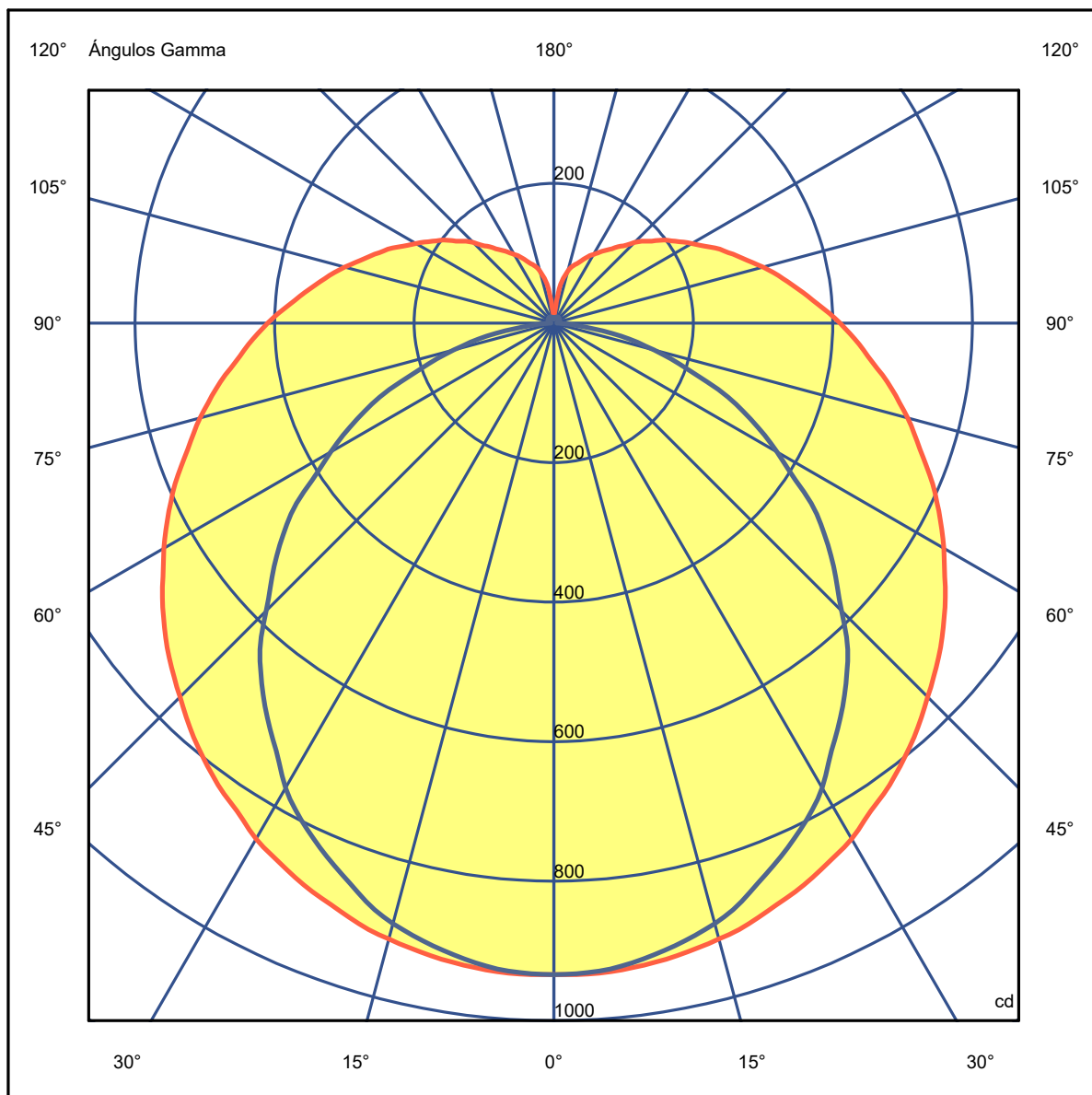
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3150mm x 32mm



Semiplanos C

180.0 — 0.0  
270.0 — 90.0

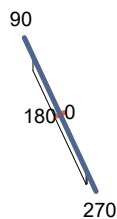


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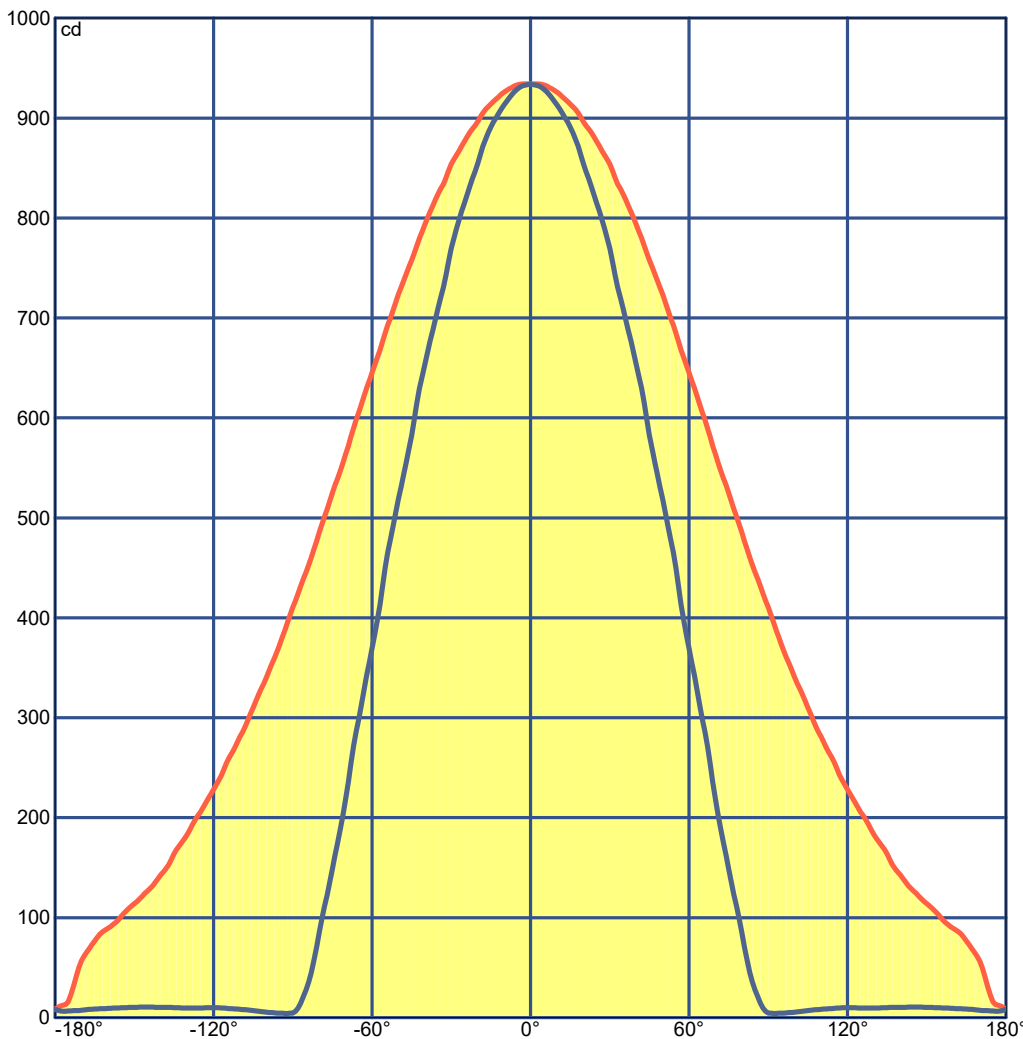
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**UGR**  
 S = 0.250

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 Lateral						Vista Longitudinal				
x=2H y=2H	17.5	18.7	18.0	19.2	19.9	17.0	18.2	17.5	18.7	19.3
x=2H y=3H	19.5	20.6	20.1	21.2	21.9	18.3	19.4	18.9	20.0	20.7
x=2H y=4H	20.6	21.6	21.2	22.2	22.9	18.8	19.9	19.5	20.5	21.2
x=2H y=6H	21.6	22.5	22.2	23.1	23.9	19.2	20.1	19.8	20.8	21.5
x=2H y=8H	22.1	23.0	22.7	23.6	24.3	19.3	20.2	19.9	20.8	21.5
x=2H y=12H	22.5	23.4	23.2	24.0	24.8	19.3	20.2	19.9	20.8	21.6
x=4H y=2H	18.1	19.1	18.7	19.7	20.4	17.7	18.7	18.3	19.3	20.0
x=4H y=3H	20.3	21.2	21.0	21.9	22.6	19.2	20.1	19.9	20.8	21.5
x=4H y=4H	21.6	22.4	22.2	23.0	23.8	19.9	20.7	20.6	21.3	22.1
x=4H y=6H	22.8	23.5	23.5	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	20.5	21.1	21.2	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	22.7
x=8H y=4H	21.9	22.5	22.6	23.2	24.1	20.5	21.1	21.2	21.8	22.6
x=8H y=6H	23.3	23.9	24.1	24.6	25.5	21.2	21.7	21.9	22.4	23.3
x=8H y=8H	24.1	24.6	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	21.5	21.9	22.3	22.7	23.6
x=12H y=4H	22.1	22.7	22.8	23.4	24.3	21.7	22.3	22.4	23.0	23.8
x=12H y=6H	23.6	24.0	24.3	24.8	25.7	22.3	22.8	23.0	23.5	24.4
x=12H y=8H	24.3	24.8	25.1	25.5	26.4	22.5	22.9	23.3	23.7	24.6

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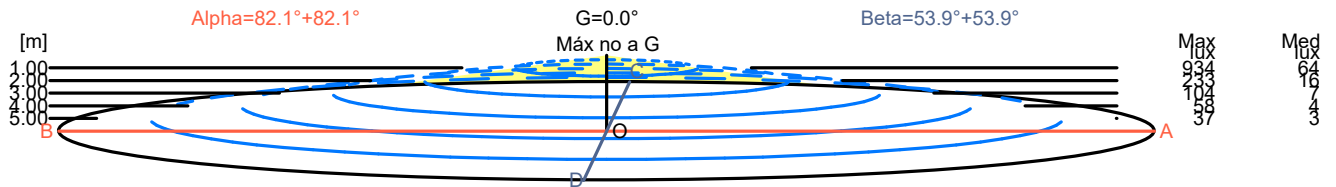
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Flujo Fuentes de luz	4235.15 lm	Valor Máximo	934.19 cd	Posición	C=0.00 G=2.50	CG Bisimétrico	

## 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	7.23	14.46	21.70	28.93	36.16	OC	1.37	2.74	4.11	5.49	6.86
OB	7.23	14.46	21.70	28.93	36.16	OD	1.37	2.74	4.11	5.49	6.86

	0	5	15	25	35	45	55	65	75	85
OA	933.70	933.26	913.95	876.82	823.98	757.84	685.01	605.71	524.92	445.59
OB	933.70	933.26	913.95	876.82	823.98	757.84	685.01	605.71	524.92	445.59
OC	933.70	929.11	890.85	815.23	709.53	582.94	450.25	299.33	148.64	27.67
OD	933.70	929.11	890.85	815.23	709.53	582.94	450.25	299.33	148.64	27.67



H[m]	D[m]	Max lux	Med lux	Alpha=82.1°+82.1°	G=0.0 Máx no a G
1.00	14.46	934	64		
2.00	28.93	233	16		
3.00	43.39	104	7		
4.00	57.86	58	4		
5.00	72.32	37	3		

H[m]	D[m]	Max lux	Med lux	Beta=53.9°+53.9°	G=0.0 Máx no a G
1.00	2.74	934	64		
2.00	5.49	233	16		
3.00	8.23	104	7		
4.00	10.97	58	4		
5.00	13.71	37	3		

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Flujo Total=4235.15 Flujo Luminaria=4235.15

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	0.69	0.74	0.78	0.87	0.93
RC	7	7	7	7	7	7	7	7	7	7	7	7

Flujo Zonal por 1000 Lúmenes

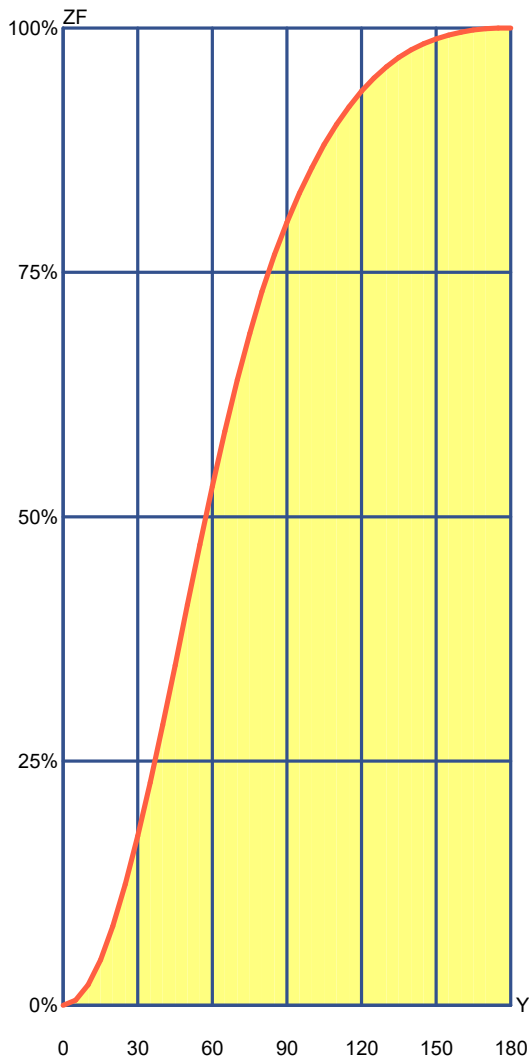
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	21	81	173	287	410	531	640	731	801	857	901	935	960	978	989	996	999	1000

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 19.86823 %  
BLF 1.0

LOR 100.00000 %  
ULOR 19.86823 %  
DLOR 80.13177 %  
UFF 19.86823 %  
DFF 80.13177 %  
FFR 24.79444 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	5.26	5.26	0.53 %	0.53 %
10°	15.63	20.90	1.56 %	2.09 %
15°	25.52	46.41	2.55 %	4.64 %
20°	34.62	81.03	3.46 %	8.10 %
25°	42.64	123.67	4.26 %	12.37 %
30°	49.53	173.20	4.95 %	17.32 %
35°	54.83	228.03	5.48 %	22.80 %
40°	58.78	286.81	5.88 %	28.68 %
45°	61.17	347.99	6.12 %	34.80 %
50°	61.92	409.91	6.19 %	40.99 %
55°	61.52	471.43	6.15 %	47.14 %
60°	59.39	530.82	5.94 %	53.08 %
65°	56.52	587.34	5.65 %	58.73 %
70°	52.56	639.90	5.26 %	63.99 %
75°	47.72	687.63	4.77 %	68.76 %
80°	42.90	730.53	4.29 %	73.05 %
85°	37.62	768.15	3.76 %	76.81 %
90°	33.17	801.32	3.32 %	80.13 %
95°	29.54	830.86	2.95 %	83.09 %
100°	26.37	857.23	2.64 %	85.72 %
105°	23.47	880.71	2.35 %	88.07 %
110°	20.69	901.40	2.07 %	90.14 %
115°	18.19	919.59	1.82 %	91.96 %
120°	15.78	935.37	1.58 %	93.54 %
125°	13.58	948.95	1.36 %	94.90 %
130°	11.44	960.39	1.14 %	96.04 %
135°	9.45	969.84	0.94 %	96.98 %
140°	7.77	977.61	0.78 %	97.76 %
145°	6.32	983.93	0.63 %	98.39 %
150°	5.08	989.01	0.51 %	98.90 %
155°	3.96	992.97	0.40 %	99.30 %
160°	2.95	995.92	0.29 %	99.59 %
165°	2.10	998.02	0.21 %	99.80 %
170°	1.32	999.34	0.13 %	99.93 %
175°	0.56	999.91	0.06 %	99.99 %
180°	0.09	1000.00	0.01 %	100.00 %

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Flujo Fuentes de luz	4235.15 lm	Valor Máximo	934.19 cd	Posición	C=0.00 G=2.50	CG	Bisimétrico

Isolux (Suelo)

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

