

**Luminaria**

Código A704-002-16-30K

Nombre AMBROSIA 180 BLACK 30K

**Ensayo**

Código CL041A21F032GE2

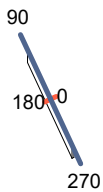
Nombre AMBROSIA 180 BLACK 30K

Flujo Luminaria	2886.16 lm	Potencia Luminaria	31.64 W	Eficacia	91.22 lm/W	Eficiencia	100.00%
Flujo Fuentes de luz	2886.16 lm	Valor Máximo	635.88 cd	Posición	C=0.00 G=2.50	CG Bisimétrico	
Luminaria Rectangular		Longit.	1800 mm	Anchura	32 mm	Altura	32 mm
Área Luminosa Rectangular		Longit.	1800 mm	Anchura	30 mm	Altura	30 mm
Área Luminosa Horizontal		0.054000 m2		Área Emisión sobre Pl. 180°		0.054000 m2	
Área Emisión sobre Pl. 0°		0.054000 m2		Área Emisión sobre Pl. 270°		0.000900 m2	
Área Emisión sobre Pl. 90°		0.000900 m2		Área de deslumbramiento a 76°		0.065460 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		2886.16 lm	
Operador		ASSELUM		Tensión Nominal		230.11 V	
Temperatura		24.80 °C		Corriente Nominal		0.14 A	
Humedad		57.50 %		Fotocélula		Prc	
Notas		RM21070711					

**Fuentes de luz de la Luminaria**

Familia	Código LED	Nombre LED 24V	Flujo [lm] 2886.16	Pot. [W] 31.64	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	

1800mm x 32mm



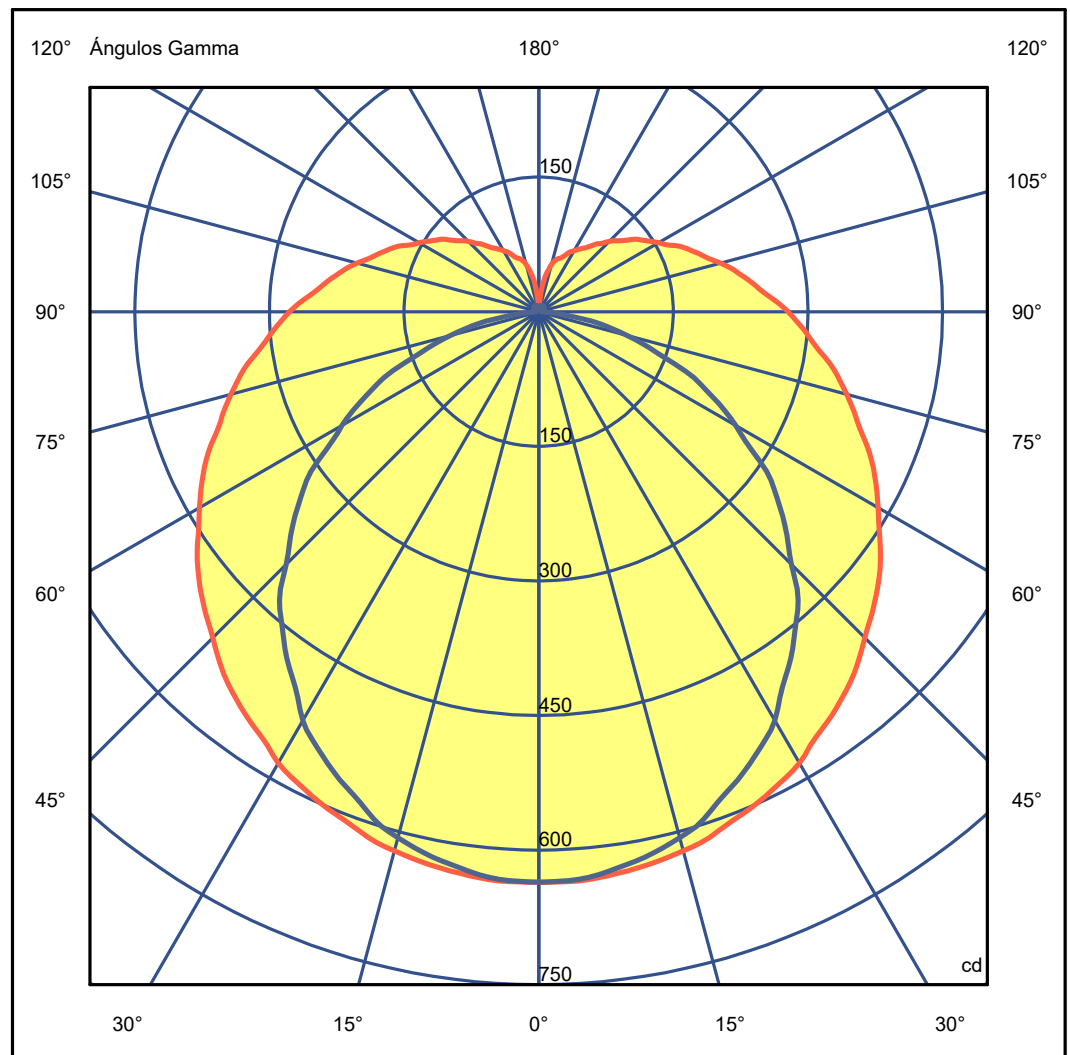
Semiplanos C

180.0 — 0.0  
270.0 — 90.0

ULOR 19.90 %

DLOR 80.10 %

RN 19.90 %



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Flujo Luminaria	2886.16 lm	Potencia Luminaria	31.64 W	Eficacia	91.22 lm/W	Eficiencia	100.00%
Flujo Fuentes de luz	2886.16 lm	Valor Máximo	635.88 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	635.53	635.53	635.53	635.53	635.53	635.53	635.53
G 2.5	635.88	635.58	635.20	634.90	634.78	634.78	634.80
G 5.0	635.20	634.70	634.07	633.47	633.04	632.78	632.70
G 7.5	632.51	632.29	631.85	630.92	629.39	627.89	627.21
G 10.0	629.65	629.11	628.03	626.39	624.39	622.46	621.61
G 12.5	626.08	625.22	623.61	621.27	618.40	615.89	614.82
G 15.0	621.99	620.69	618.40	615.19	611.36	608.06	606.66
G 17.5	617.40	614.22	610.23	606.33	602.66	599.00	597.26
G 20.0	609.10	606.34	602.70	598.26	591.22	584.84	582.06
G 22.5	603.04	599.05	593.41	587.12	578.98	572.17	569.32
G 25.0	596.19	591.45	584.75	577.22	567.50	559.35	555.93
G 27.5	588.60	583.00	575.08	566.15	554.90	545.53	541.62
G 30.0	580.90	574.28	564.50	552.65	540.21	530.23	526.13
G 32.5	568.02	562.60	553.50	540.25	523.54	508.73	502.34
G 35.0	559.28	552.27	540.53	524.75	506.55	491.15	484.65
G 37.5	549.73	541.78	528.55	510.84	490.46	473.24	465.98
G 40.0	539.57	530.42	515.58	495.94	473.50	454.59	446.64
G 42.5	527.23	516.79	500.43	479.26	455.49	435.64	427.33
G 45.0	513.78	504.37	488.43	465.09	435.57	409.38	398.07
G 47.5	502.32	491.38	472.59	446.33	414.80	387.53	375.92
G 50.0	490.78	479.12	459.08	430.92	396.91	367.41	354.82
G 52.5	478.51	465.70	444.16	414.01	377.56	345.92	332.42
G 55.0	464.83	451.24	428.49	396.62	358.01	324.46	310.14
G 57.5	449.38	436.47	413.32	378.48	333.71	293.72	276.40
G 60.0	436.48	423.30	399.19	362.39	314.64	271.79	253.21
G 62.5	424.04	410.55	385.47	346.62	295.69	249.76	229.80
G 65.0	411.25	397.26	371.26	330.42	276.16	226.94	205.49
G 67.5	396.88	382.53	355.72	313.20	256.26	204.44	181.81
G 70.0	380.58	367.80	341.55	296.56	233.20	174.31	148.36
G 72.5	368.07	355.26	328.31	281.41	214.73	152.53	125.07
G 75.0	355.22	342.98	316.09	267.65	197.35	131.23	101.94
G 77.5	342.46	330.07	302.77	252.99	180.13	111.37	80.86
G 80.0	328.77	316.83	289.54	238.60	163.08	91.49	59.66
G 82.5	313.04	302.73	276.63	224.59	144.70	67.97	33.67
G 85.0	301.31	291.02	264.62	211.96	131.16	53.59	18.92
G 87.5	289.39	279.36	253.32	200.97	120.34	42.81	8.14
G 90.0	277.94	267.14	240.79	189.35	111.19	36.42	3.05
G 92.5	264.91	253.70	227.59	178.16	104.28	34.01	2.74
G 95.0	251.25	240.03	214.58	167.46	97.96	32.19	2.97
G 97.5	240.83	229.22	203.90	158.44	92.57	30.67	3.25
G100.0	230.51	218.92	194.16	150.52	88.00	29.49	3.63
G102.5	220.68	208.19	183.32	141.30	82.53	28.06	4.08
G105.0	209.90	198.16	174.38	134.38	78.75	27.31	4.69
G107.5	198.26	187.00	164.52	126.90	74.68	26.44	5.23
G110.0	189.61	178.50	156.56	120.46	71.00	25.54	5.61
G112.5	181.21	170.43	149.37	114.93	67.93	24.80	5.91
G115.0	173.00	162.05	141.46	108.55	64.23	23.78	6.11
G117.5	161.67	152.30	133.94	103.57	61.75	23.23	6.33
G120.0	153.90	144.96	127.45	98.59	58.96	22.50	6.51
G122.5	146.57	138.08	121.39	93.95	56.35	21.79	6.64
G125.0	139.56	131.38	115.39	89.28	53.71	21.09	6.80
G127.5	132.82	124.32	108.45	83.47	50.27	20.14	7.01
G130.0	123.60	116.23	102.00	79.04	48.02	19.67	7.27
G132.5	117.53	110.04	95.64	73.43	44.62	18.77	7.56
G135.0	111.30	104.51	90.97	69.98	42.76	18.36	7.79
G137.5	103.64	98.03	86.03	66.75	41.18	18.05	7.98
G140.0	98.41	92.89	81.11	62.65	38.77	17.40	8.14
G142.5	91.47	87.22	77.05	60.22	37.69	17.24	8.32
G145.0	86.84	82.99	73.34	57.36	36.10	16.85	8.47
G147.5	82.74	79.41	70.49	55.38	35.04	16.54	8.46
G150.0	78.68	74.73	66.34	53.73	34.14	16.16	8.27
G152.5	75.00	71.20	63.15	51.15	32.58	15.57	8.12
G155.0	69.68	66.83	60.07	49.39	31.73	15.25	7.97
G157.5	65.19	62.00	55.91	47.54	30.69	14.75	7.68
G160.0	62.91	59.98	54.49	46.64	30.20	14.45	7.43
G162.5	59.74	57.26	52.51	45.35	29.48	14.08	7.16
G165.0	54.83	53.35	49.97	44.11	28.90	13.72	6.82
G167.5	46.78	50.13	49.91	43.09	28.63	13.44	6.40
G170.0	39.30	42.40	41.72	35.56	23.62	11.39	5.78
G172.5	27.77	33.01	36.03	33.25	22.96	11.08	5.38
G175.0	12.90	18.64	23.93	24.57	18.15	9.47	5.11
G177.5	9.65	12.43	14.79	14.83	11.60	7.22	4.99
G180.0	5.84	5.84	5.84	5.84	5.84	5.84	5.84

**Luminaria**

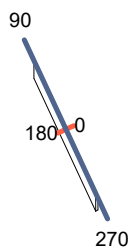
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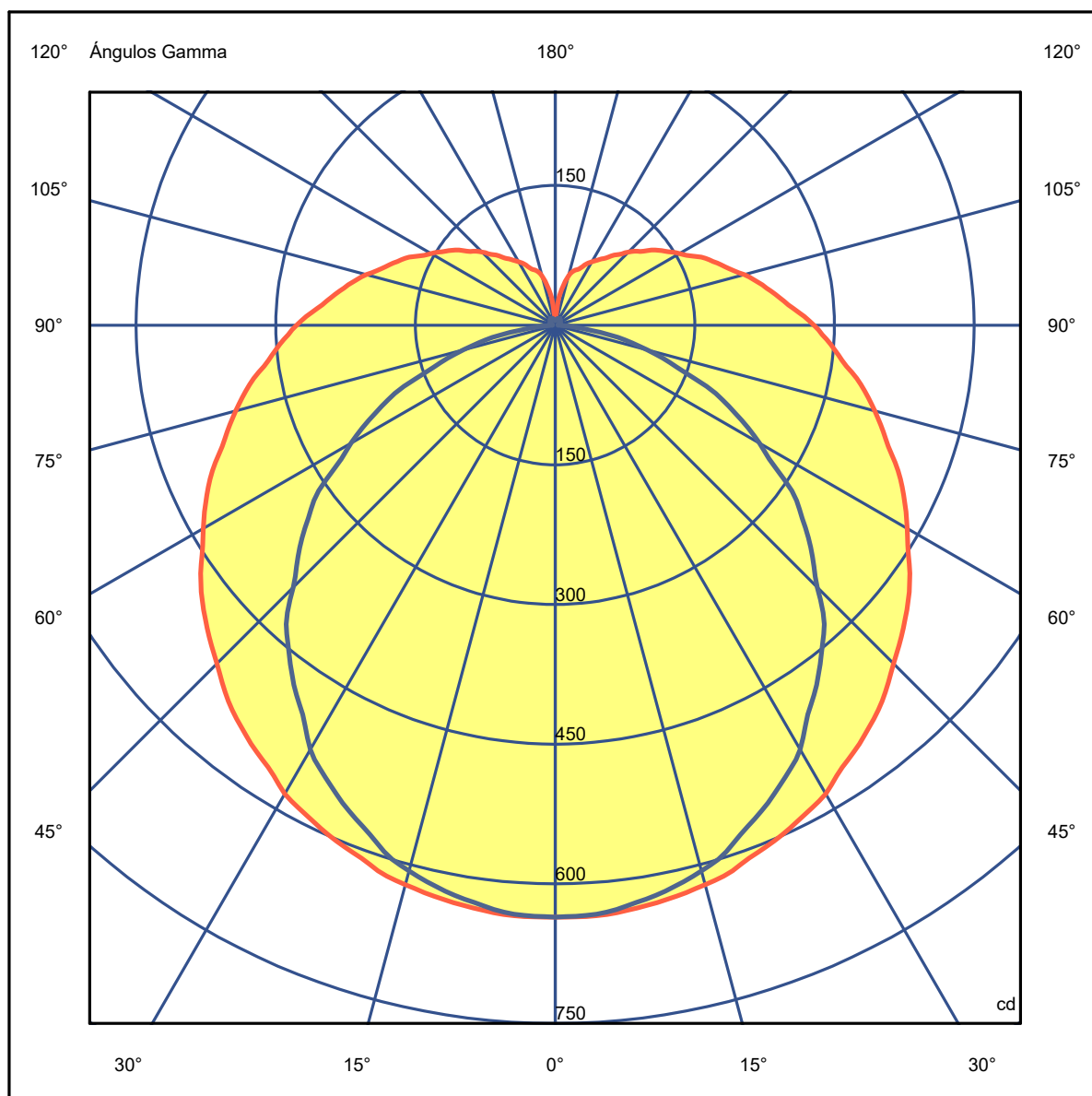
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1800mm x 32mm



Semiplanos C

180.0 — 0.0  
270.0 — 90.0



**Luminaria**

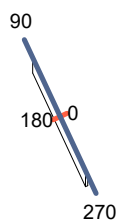
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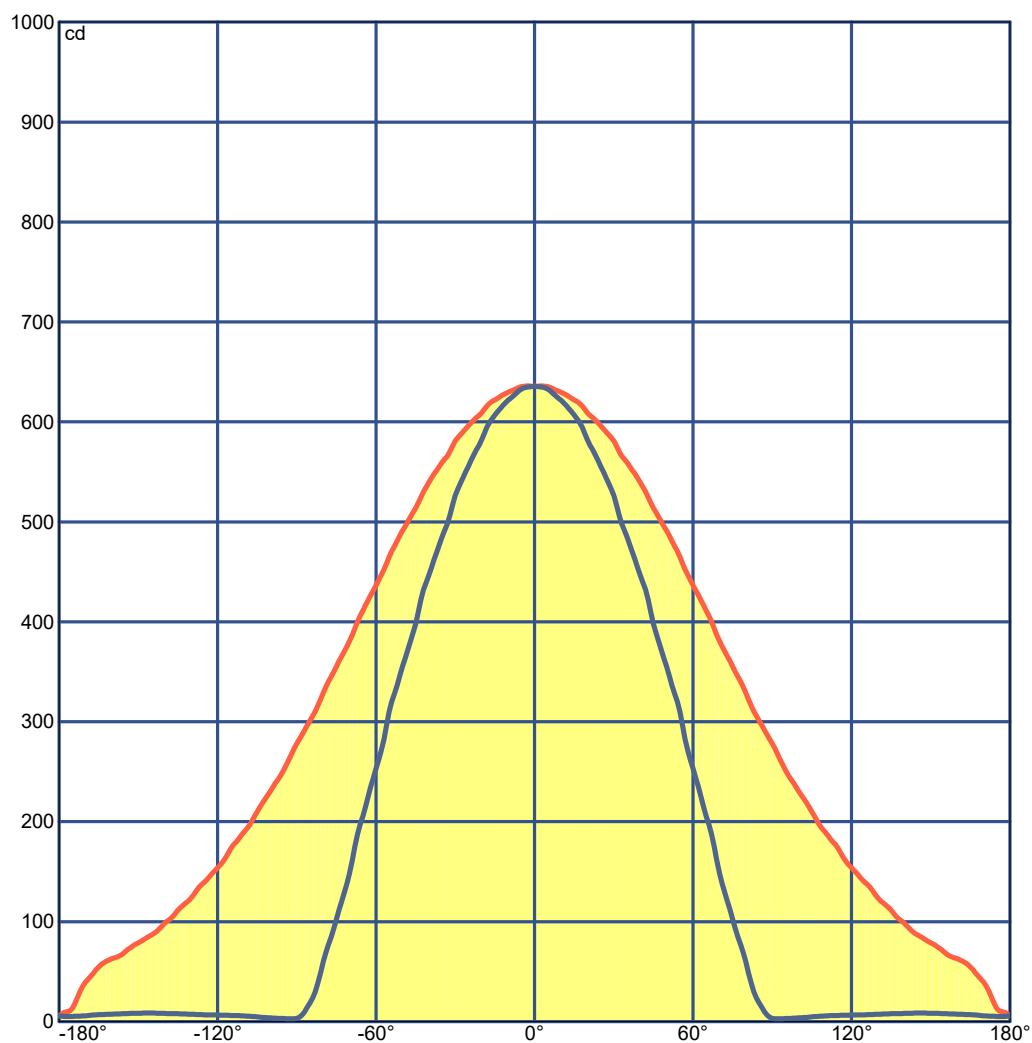
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**UGR**  
 S = 0.250

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	18.1	19.3	18.6	19.8	20.4	17.6	18.8	18.1	19.3	20.0
x=2H y=3H	20.1	21.2	20.7	21.8	22.5	18.9	20.0	19.6	20.6	21.3
x=2H y=4H	21.1	22.2	21.8	22.8	23.5	19.5	20.5	20.1	21.1	21.8
x=2H y=6H	22.2	23.1	22.8	23.7	24.4	19.8	20.7	20.4	21.4	22.1
x=2H y=8H	22.6	23.5	23.3	24.2	24.9	19.9	20.8	20.5	21.4	22.1
x=2H y=12H	23.1	24.0	23.7	24.6	25.4	19.9	20.8	20.5	21.4	22.2
x=4H y=2H	18.7	19.7	19.3	20.3	21.0	18.3	19.3	18.9	19.9	20.6
x=4H y=3H	20.9	21.8	21.6	22.5	23.2	19.9	20.7	20.5	21.4	22.1
x=4H y=4H	22.1	22.9	22.8	23.6	24.4	20.5	21.3	21.2	21.9	22.7
x=4H y=6H	23.3	24.0	24.0	24.7	25.5	21.0	21.7	21.7	22.3	23.2
x=4H y=8H	23.9	24.6	24.6	25.3	26.1	21.1	21.7	21.8	22.4	23.3
x=4H y=12H	24.5	25.1	25.2	25.8	26.6	21.1	21.7	21.8	22.4	23.3
x=8H y=4H	22.5	23.1	23.2	23.8	24.6	21.1	21.7	21.8	22.4	23.2
x=8H y=6H	23.9	24.5	24.6	25.2	26.0	21.8	22.3	22.5	23.0	23.9
x=8H y=8H	24.7	25.1	25.4	25.9	26.8	22.0	22.5	22.7	23.2	24.1
x=8H y=12H	25.4	25.8	26.2	26.6	27.5	22.1	22.5	22.9	23.3	24.2
x=12H y=4H	22.7	23.3	23.4	24.0	24.9	22.3	22.9	23.0	23.6	24.4
x=12H y=6H	24.1	24.6	24.9	25.4	26.2	22.9	23.4	23.6	24.1	25.0
x=12H y=8H	24.9	25.4	25.7	26.1	27.0	23.1	23.5	23.9	24.3	25.2

# Luminaria

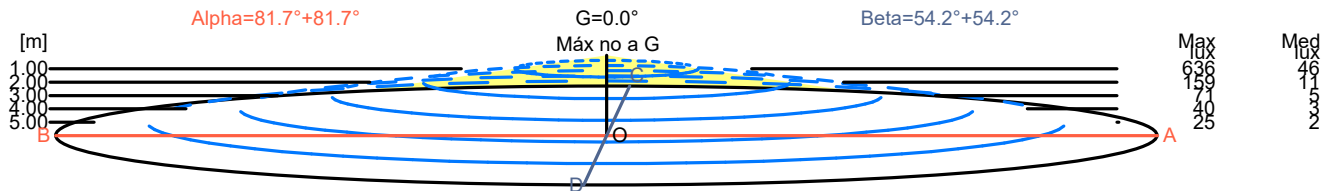
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Flujo Fuentes de luz	2886.16 lm	Valor Máximo	635.88 cd	Posición	C=0.00 G=2.50	CG Bisimétrico	

## 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	6.85	13.69	20.54	27.39	34.24	OC	1.39	2.78	4.16	5.55	6.94
OB	6.85	13.69	20.54	27.39	34.24	OD	1.39	2.78	4.16	5.55	6.94

	Intensidades Luminosas [ cd ]									
	0	5	15	25	35	45	55	65	75	85
OA	635.53	635.20	621.99	596.19	559.28	513.78	464.83	411.25	355.22	301.31
OB	635.53	635.20	621.99	596.19	559.28	513.78	464.83	411.25	355.22	301.31
OC	635.53	632.70	606.66	555.93	484.65	398.07	310.14	205.49	101.94	18.92
OD	635.53	632.70	606.66	555.93	484.65	398.07	310.14	205.49	101.94	18.92



H[m]	D[m]	Max lux	Med lux	Alpha=81.7°+81.7°	G=0.0 Máx no a G	
1.00	13.69	636	46			
2.00	27.39	159	11			
3.00	41.08	71	5			
4.00	54.78	40	3			
5.00	68.47	25	2			

H[m]	D[m]	Max lux	Med lux	Beta=54.2°+54.2°	G=0.0 Máx no a G	
1.00	2.78	636	46			
2.00	5.55	159	11			
3.00	8.33	71	5			
4.00	11.10	40	3			
5.00	13.88	25	2			

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Flujo Total=2886.16 Flujo Luminaria=2886.16

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

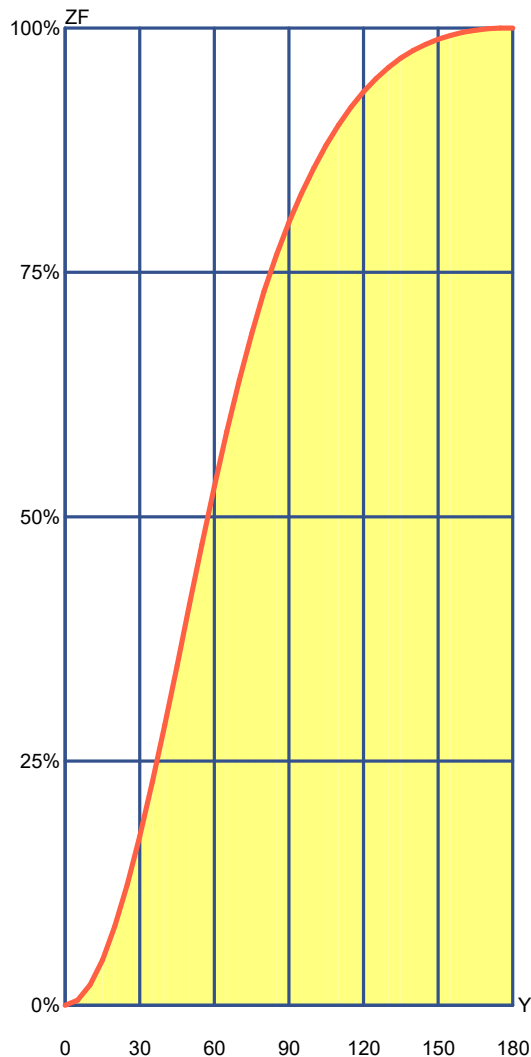
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	21	81	173	287	410	531	640	730	801	857	901	935	960	977	989	996	999	1000

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 19.89509 %  
BLF 1.0

LOR 100.00000 %  
ULOR 19.89509 %  
DLOR 80.10491 %  
UFF 19.89509 %  
DFF 80.10491 %  
FFR 24.83630 %



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°	15.61	20.87	1.56 %	2.09 %
15°	25.50	46.37	2.55 %	4.64 %
20°	34.60	80.96	3.46 %	8.10 %
25°	42.59	123.55	4.26 %	12.35 %
30°	49.49	173.04	4.95 %	17.30 %
35°	54.82	227.87	5.48 %	22.79 %
40°	58.78	286.64	5.88 %	28.66 %
45°	61.20	347.84	6.12 %	34.78 %
50°	61.93	409.77	6.19 %	40.98 %
55°	61.55	471.32	6.16 %	47.13 %
60°	59.38	530.70	5.94 %	53.07 %
65°	56.53	587.23	5.65 %	58.72 %
70°	52.56	639.79	5.26 %	63.98 %
75°	47.68	687.47	4.77 %	68.75 %
80°	42.91	730.39	4.29 %	73.04 %
85°	37.55	767.93	3.75 %	76.79 %
90°	33.12	801.05	3.31 %	80.10 %
95°	29.47	830.52	2.95 %	83.05 %
100°	26.29	856.82	2.63 %	85.68 %
105°	23.41	880.23	2.34 %	88.02 %
110°	20.63	900.85	2.06 %	90.09 %
115°	18.14	919.00	1.81 %	91.90 %
120°	15.73	934.72	1.57 %	93.47 %
125°	13.57	948.30	1.36 %	94.83 %
130°	11.48	959.78	1.15 %	95.98 %
135°	9.50	969.27	0.95 %	96.93 %
140°	7.83	977.10	0.78 %	97.71 %
145°	6.36	983.46	0.64 %	98.35 %
150°	5.14	988.60	0.51 %	98.86 %
155°	4.03	992.63	0.40 %	99.26 %
160°	3.02	995.65	0.30 %	99.57 %
165°	2.21	997.86	0.22 %	99.79 %
170°	1.41	999.27	0.14 %	99.93 %
175°	0.62	999.89	0.06 %	99.99 %
180°	0.11	1000.00	0.01 %	100.00 %

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Isolux (Suelo)

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

