Luminaria
Código 2080401214
Nombre TRIA A/04 OUTDOOR
Ensayo
Código CL092A18F013G
Nombre TRIA A/04 OUTDOOR

Flujo Luminaria	689.74 lm	Potencia luminaria	13.77 W	Eficacia	50.08 lm/W	Eficiencia	100.00%
Flujo de Lámpara	689.74 lm	Valor Máximo	385.88 cd	Posición	C=0.00 G=0.00	CG	Bisimétrico

Luminaria Redonda	Diam. 310 mm	Altura	75 mm
Área Luminosa Redonda	Diam. 200 mm	Altura	0 mm
Área Luminosa Horizontal	0.031416 m2	Área Emisión sobre Pl. 180°	0.000000 m2
Área Emisión sobre Pl. 0°	0.000000 m2	Área Emisión sobre Pl. 270°	0.000000 m2
Área Emisión sobre Pl. 90°	0.000000 m2	Área de deslumbramiento a 76°	0.007600 m2

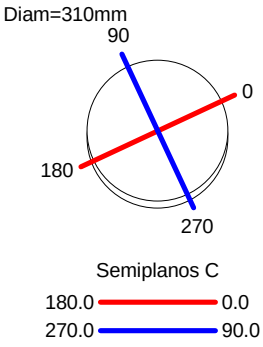
Sist. de Coorden.	CG	Tipo de Simetría	Bisimétrico
Fecha	29-08-2018	Máximo Ángulo Gamma	90
Distancia de Ensayo	6.44	Flujo de Ensayo	689.74 lm
Operador	AsselumT2	Tensión de alimentación [V]	230.01 V
Temperatura	24.50 °C	Corriente de alimentación [A]	0.06 A
Humedad	53.60 %	Fotocélula	Prc
Notas	RM18071901.1		

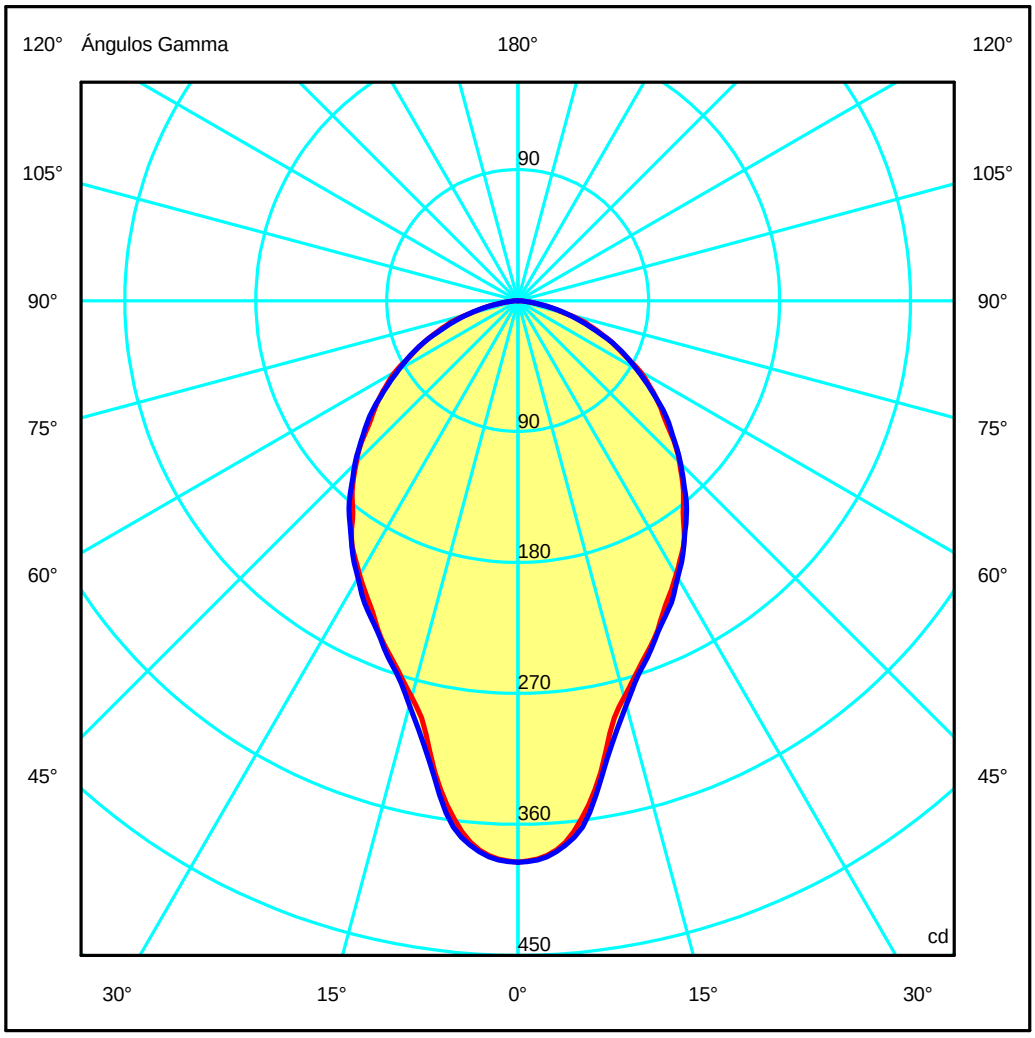
Lámparas de la Luminaria

Familia	Código	Nombre	Flujo [lm]	Pot. [W]	Cant.
13,7 W LUMINARIA LED	11,5W CRI90 2700K	LED 11,5W CRI 90 2700K	689.74	13.77	1

C.I.E.	53 83 97 100 100	D DIN 5040	A40
F UTE	1.00 D	B NBN	BZ 4







ULOR 0.00 %
DLOR100.00 %
RN 0.00 %

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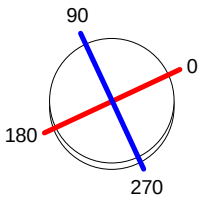
Tabla de Intensidad Luminosa cd **Tabla 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	385.88	385.88	385.88	385.88	385.88	385.88	385.88
G 2.5	383.14	382.91	383.27	383.20	383.71	383.64	383.87
G 5.0	373.69	374.10	373.87	375.40	375.17	376.68	375.67
G 7.5	354.55	356.10	355.77	355.97	358.98	354.32	360.27
G 10.0	328.85	328.86	328.50	329.33	332.44	327.72	331.98
G 12.5	298.68	298.96	301.58	302.13	307.13	303.71	307.00
G 15.0	282.13	280.19	281.97	282.29	286.55	286.73	287.97
G 17.5	269.40	267.28	266.67	267.84	271.38	273.01	271.89
G 20.0	258.47	256.56	254.80	254.51	260.20	258.60	260.72
G 22.5	248.33	247.10	244.08	244.77	249.17	248.43	249.05
G 25.0	236.28	235.77	234.13	234.91	239.01	238.69	239.53
G 27.5	226.74	225.22	224.95	225.55	229.25	229.27	230.65
G 30.0	217.59	216.45	216.41	216.41	219.47	219.38	219.72
G 32.5	208.70	207.45	207.94	205.98	210.54	207.78	210.34
G 35.0	199.42	198.44	198.04	196.63	200.42	198.54	199.62
G 37.5	186.55	186.46	187.55	186.53	189.66	188.82	190.08
G 40.0	177.23	175.64	177.49	176.57	178.96	179.25	180.24
G 42.5	167.30	166.05	168.01	166.84	168.13	168.24	168.61
G 45.0	157.14	156.64	158.52	156.54	157.65	156.36	158.23
G 47.5	146.87	146.71	147.88	147.07	147.48	146.20	147.28
G 50.0	134.39	135.13	136.65	136.44	136.88	136.44	137.08
G 52.5	124.87	124.76	125.51	125.98	126.68	126.45	127.31
G 55.0	115.90	115.08	115.67	115.13	115.81	115.21	115.48
G 57.5	106.43	105.18	105.79	104.66	105.70	103.20	104.68
G 60.0	96.81	95.03	95.27	94.99	95.71	93.31	94.14
G 62.5	84.28	82.69	84.13	84.15	84.90	83.40	84.66
G 65.0	74.58	72.51	73.80	74.19	74.89	73.72	75.06
G 67.5	64.95	63.10	64.24	64.02	64.70	62.62	64.01
G 70.0	55.52	54.32	54.75	53.99	55.09	52.23	53.08
G 72.5	46.31	44.96	44.73	44.43	45.00	43.31	43.96
G 75.0	34.24	33.73	34.43	34.63	34.58	34.74	35.04
G 77.5	25.38	25.07	25.36	25.86	25.68	26.15	25.89
G 80.0	17.30	16.89	17.12	16.77	17.06	16.47	16.80
G 82.5	10.19	10.01	9.96	9.39	10.10	8.98	9.60
G 85.0	5.48	4.91	4.97	4.75	5.06	4.52	5.06
G 87.5	1.97	1.82	2.05	1.99	2.06	1.97	2.22
G 90.0	1.35	1.35	1.36	1.36	1.35	1.36	1.37

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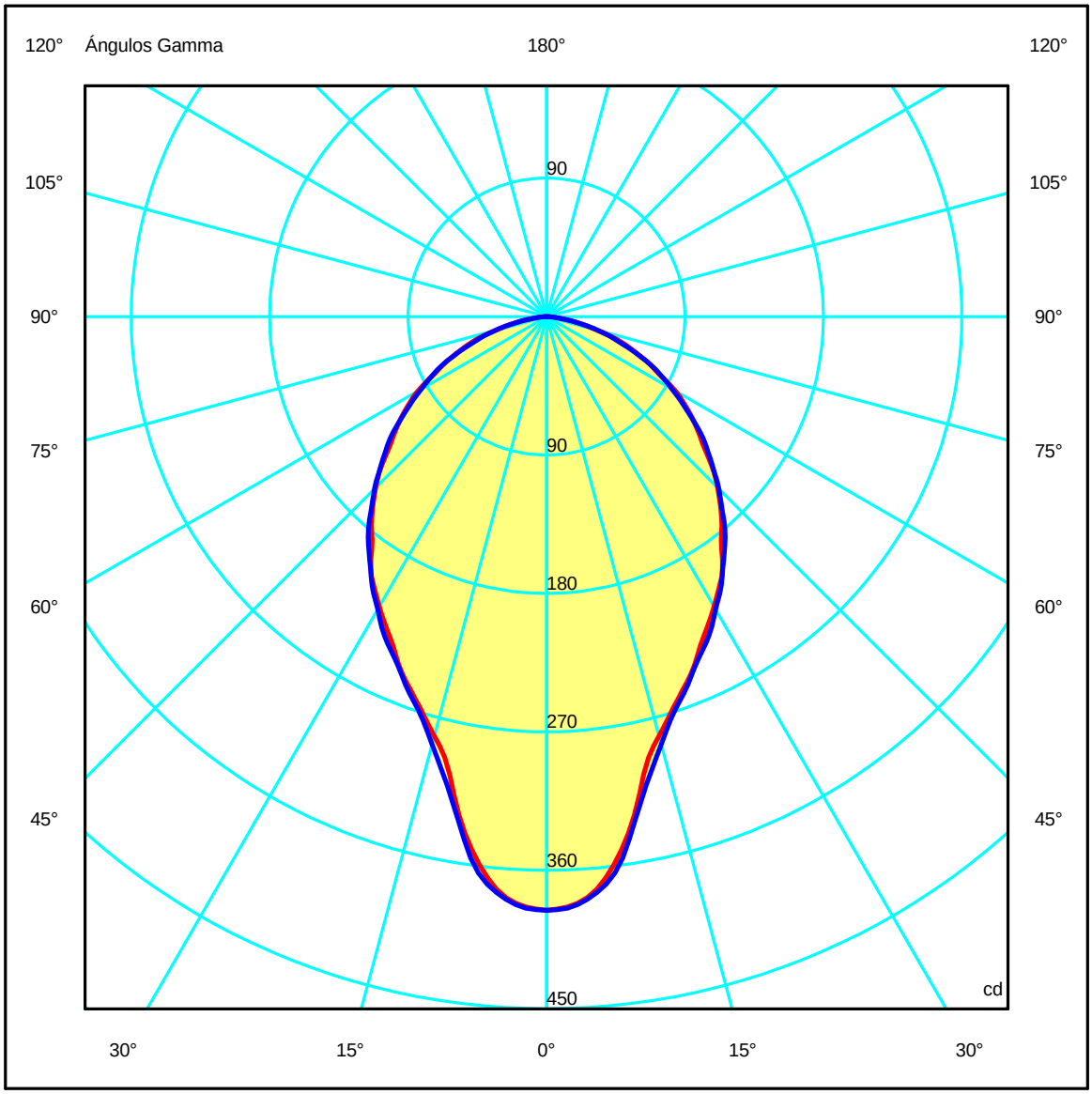
Diam=310mm



Semiplanos C

180.0 0.0

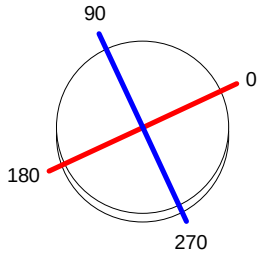
270.0 90.0



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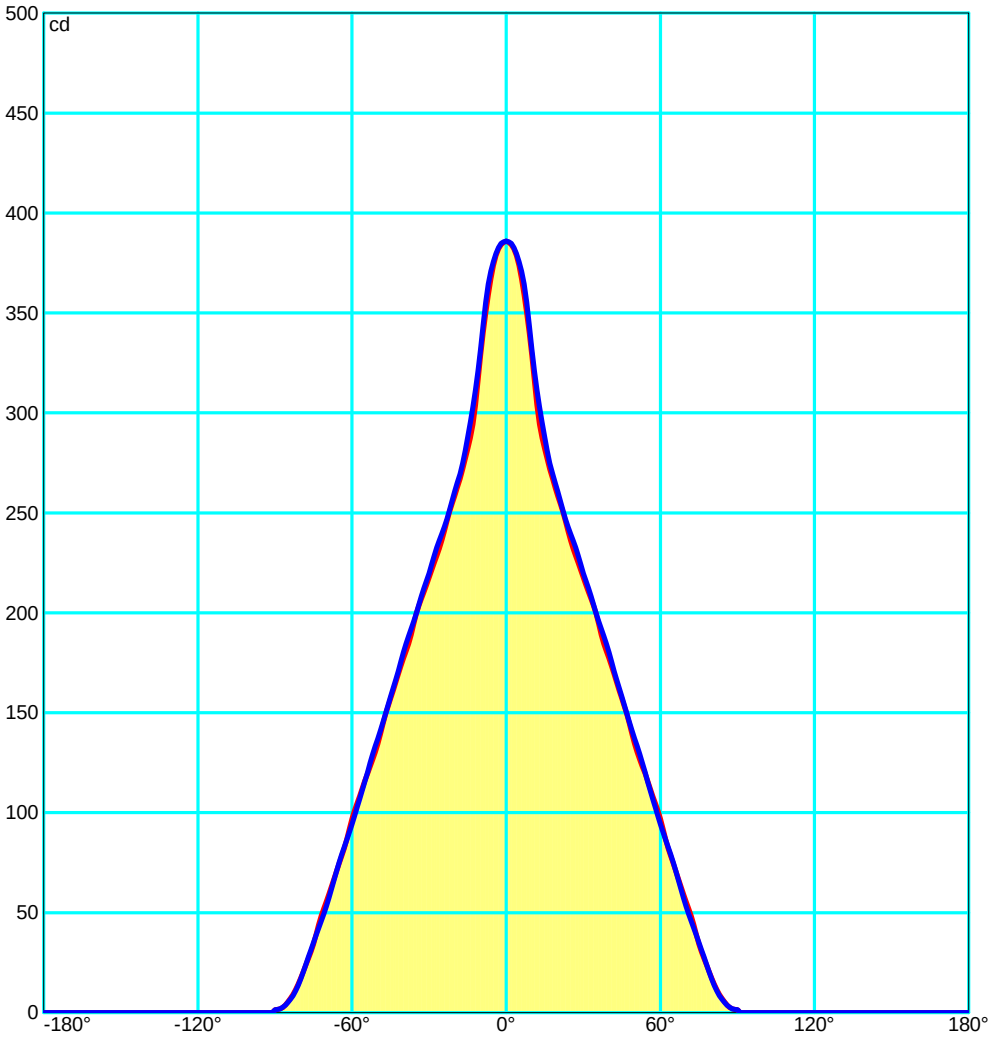
Flujo Luminaria	689.74 lm	Potencia luminaria	13.77 W	Eficacia	50.08 lm/W	Eficiencia	100.00%
Flujo de Lámpara	689.74 lm	Valor Máximo	385.88 cd	Posición	C=0.00 G=0.00	CG Bisimétrico	

Diam=310mm



Semiplanos C

180.0 0.0
270.0 90.0



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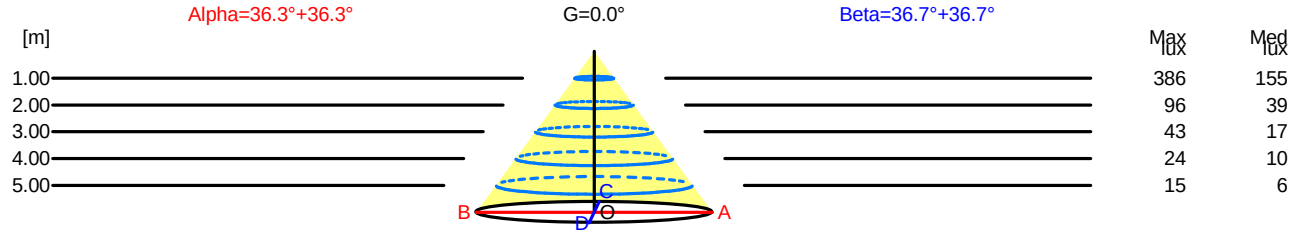
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Flujo de Lámpara	689.74 lm	Valor Máximo	385.88 cd	Posición	C=0.00 G=0.00	CG	Bisimétrico

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	0.73	1.47	2.20	2.93	3.67	OC	0.75	1.49	2.24	2.98	3.73
OB	0.73	1.47	2.20	2.93	3.67	OD	0.75	1.49	2.24	2.98	3.73

Intensidades Luminosas [cd]

	0	5	15	25	35	45	55	65	75	85
OA	385.88	373.69	282.13	236.28	199.42	157.14	115.90	74.58	34.24	5.48
OB	385.88	373.69	282.13	236.28	199.42	157.14	115.90	74.58	34.24	5.48
OC	385.88	375.67	287.97	239.53	199.62	158.23	115.48	75.06	35.04	5.06
OD	385.88	375.67	287.97	239.53	199.62	158.23	115.48	75.06	35.04	5.06



H[m]	D[m]	Max lux	Med lux	Alpha=36.3°+36.3° G=0.0
1.00	1.47	386	155	
2.00	2.93	96	39	
3.00	4.40	43	17	
4.00	5.87	24	10	
5.00	7.33	15	6	

H[m]	D[m]	Max lux	Med lux	Beta=36.7°+36.7° G=0.0
1.00	1.49	386	155	
2.00	2.98	96	39	
3.00	4.48	43	17	
4.00	5.97	24	10	
5.00	7.46	15	6	

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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
WorkingPlane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
RoomDimensions	Viewed Crosswise					Viewed Endwise				
x=2H y=2H	18.7	19.9	18.9	20.1	20.4	18.7	19.9	19.0	20.1	20.4
x=2H y=3H	20.0	21.2	20.4	21.4	21.7	20.0	21.1	20.3	21.4	21.7
x=2H y=4H	20.5	21.6	20.9	21.9	22.1	20.5	21.5	20.8	21.8	22.1
x=2H y=6H	20.8	21.8	21.1	22.1	22.4	20.8	21.7	21.1	22.0	22.4
x=2H y=8H	20.8	21.8	21.2	22.1	22.4	20.8	21.7	21.2	22.1	22.4
x=2H y=12H	20.9	21.8	21.2	22.1	22.4	20.8	21.7	21.2	22.0	22.4
x=4H y=2H	19.4	20.4	19.7	20.7	21.0	19.4	20.4	19.7	20.7	21.0
x=4H y=3H	20.9	21.8	21.3	22.1	22.5	20.9	21.8	21.3	22.1	22.4
x=4H y=4H	21.5	22.3	21.9	22.6	23.0	21.5	22.3	21.9	22.6	23.0
x=4H y=6H	21.8	22.5	22.3	22.9	23.3	21.8	22.5	22.2	22.9	23.3
x=4H y=8H	21.9	22.5	22.3	22.9	23.3	21.9	22.5	22.3	22.9	23.3
x=4H y=12H	21.9	22.5	22.4	22.9	23.4	21.9	22.5	22.4	22.9	23.3
x=8H y=4H	21.7	22.4	22.2	22.8	23.2	21.7	22.3	22.2	22.7	23.1
x=8H y=6H	22.2	22.7	22.6	23.1	23.6	22.2	22.7	22.6	23.1	23.6
x=8H y=8H	22.3	22.7	22.8	23.2	23.7	22.3	22.7	22.7	23.2	23.6
x=8H y=12H	22.3	22.7	22.8	23.2	23.7	22.3	22.7	22.8	23.1	23.7
x=12H y=4H	21.7	22.3	22.2	22.7	23.2	21.7	22.3	22.2	22.7	23.1
x=12H y=6H	22.2	22.6	22.7	23.1	23.6	22.2	22.6	22.7	23.1	23.6
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Flujo Total=689.74 Flujo Luminaria=689.74

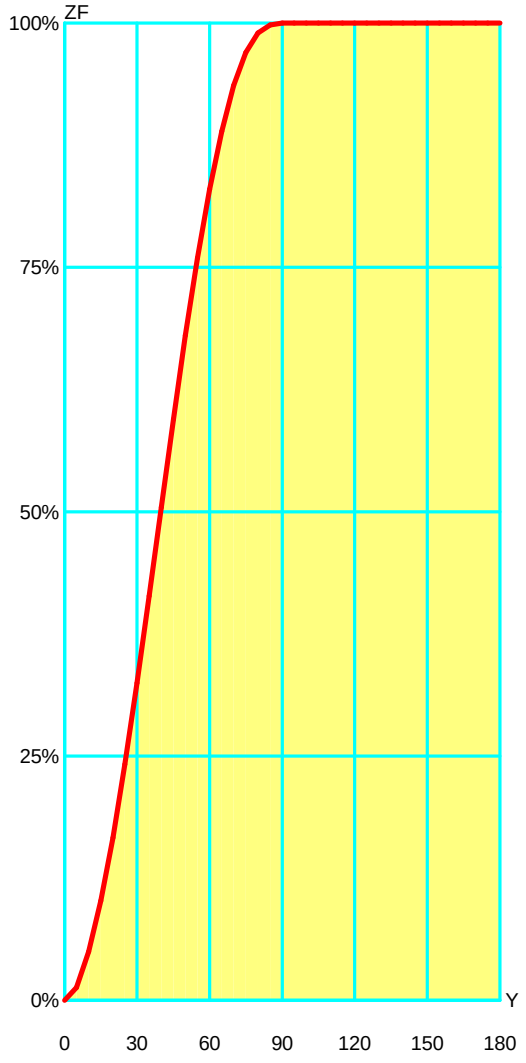
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.35	0.43	0.51	0.58	0.63	0.72	0.77	0.81	0.85	0.88	0.94	0.97
RC	4	4	4	4	4	4	4	4	4	4	3	3

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)	50	166	325	504	680	830	936	990	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Códigos de Flujo C.I.E.
53 83 97 100 100

C.I.E.	4/4/4/4/4/4/4/4/4/4/3/3	LOR	100.00000 %
D DIN 5040	A40	ULOR	0.00000 %
F UTE	1.00 D	DLOR	100.00000 %
B NBN	BZ 4	UFF	0.00000 %
RN	0.00000 %	DFF	100.00000 %
BLF	1.0	FFR	0.00000 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	13.19	13.19	1.32 %	1.32 %
10°	36.56	49.75	3.66 %	4.98 %
15°	52.22	101.97	5.22 %	10.20 %
20°	64.42	166.39	6.44 %	16.64 %
25°	75.05	241.44	7.50 %	24.14 %
30°	83.30	324.74	8.33 %	32.47 %
35°	88.83	413.57	8.88 %	41.36 %
40°	90.90	504.47	9.09 %	50.45 %
45°	89.87	594.35	8.99 %	59.43 %
50°	86.01	680.35	8.60 %	68.04 %
55°	79.30	759.65	7.93 %	75.97 %
60°	70.40	830.05	7.04 %	83.01 %
65°	59.32	889.38	5.93 %	88.94 %
70°	46.92	936.30	4.69 %	93.63 %
75°	33.66	969.96	3.37 %	97.00 %
80°	19.89	989.84	1.99 %	98.98 %
85°	8.12	997.96	0.81 %	99.80 %
90°	2.04	1000.00	0.20 %	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 (Suelo)

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

