

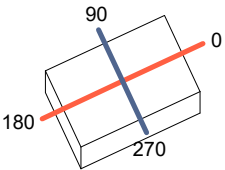
Luminaria

Código A646-090
Nombre LAB 1 2020 GRAPHITE GREY
Ensayo
Código CL041A21F023G
Nombre LAB 1 2020 GRAPHITE GREY

Flujo Luminaria	304.99 lm	Potencia Luminaria	4.42 W	Eficacia	69.04 lm/W	Eficiencia	100.00%
Flujo Fuentes de luz	304.99 lm	Valor Máximo	769.38 cd	Posición	C=0.00 G=0.00	CG	Bisimétrico
Luminaria Rectangular Área Luminosa Redonda	Longit. Diam.	80 mm 25 mm	Anchura Altura	125 mm 0 mm	Altura	125 mm	
Área Luminosa Horizontal Área Emisión sobre Pl. 0° Área Emisión sobre Pl. 90°	0.000491 m2 0.000000 m2 0.000000 m2	Área Emisión sobre Pl. 180° Área Emisión sobre Pl. 270° Área de deslumbramiento a 76°	0.000000 m2 0.000000 m2 0.000119 m2				
Sist. de Coorden. Fecha Distancia de Ensayo	CG 29-03-2021 6.44	Tipo de Simetría Máximo Ángulo Gamma Flujo de Ensayo	Bisimétrico 90 304.99 lm				
Operador Temperatura Humedad Notas	Asselum T2 25.00 °C RM21032206.2	Tensión Nominal Corriente Nominal Fotocélula	230.29 V 0.05 A Prc				

Fuentes de luz de la Luminaria						
Familia	Código LED	Nombre LED	Flujo [lm]	Pot. [W]	Cant.	
C.I.E. F UTE	90 98 100 100 100 1.00 A	D DIN 5040 B NBN	A60 BZ 1	304.99 4.42	1	

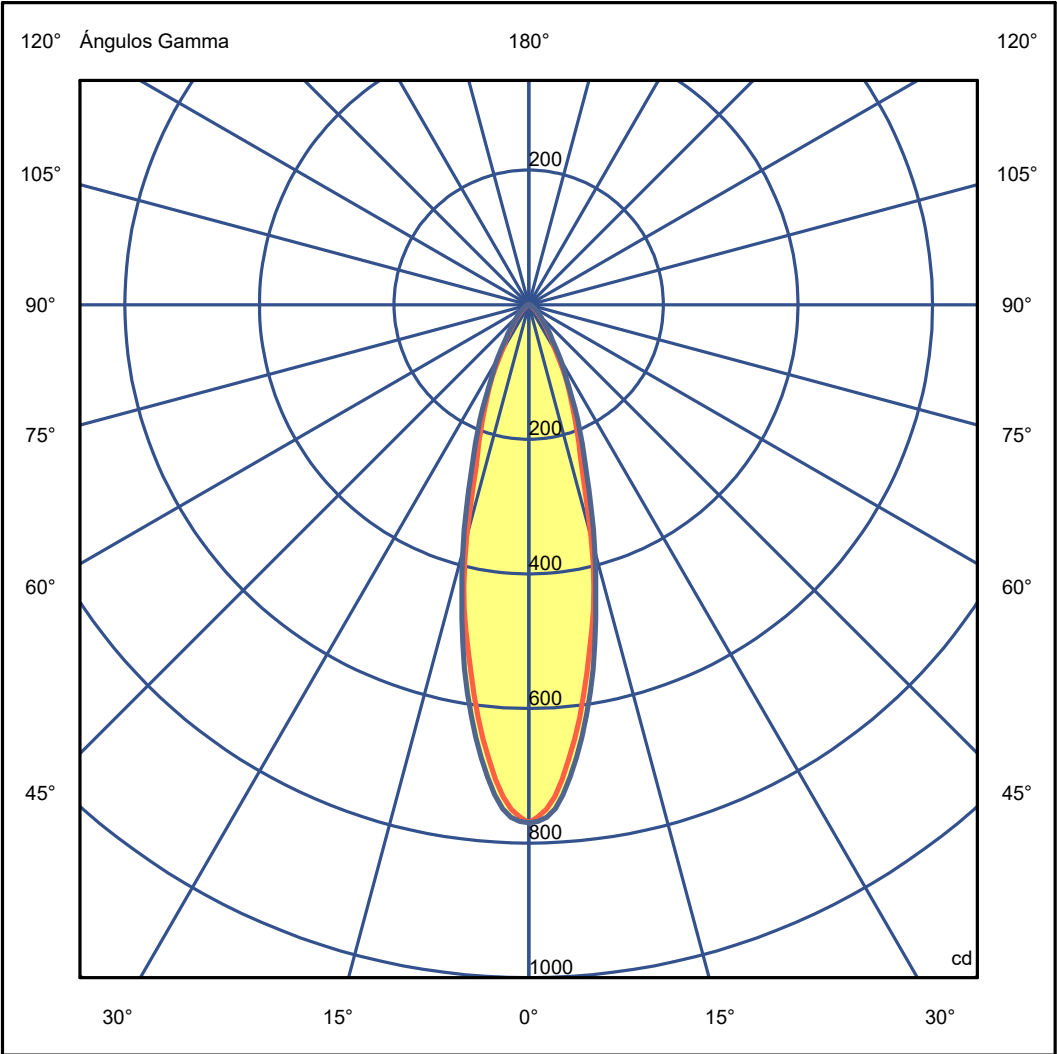
80mm x 125mm



Semiplanos C

180.0 0.0
270.0 90.0

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	769.38	769.38	769.38	769.38	769.38	769.38	769.38
G 2.5	741.85	747.86	753.59	752.06	738.17	743.82	756.84
G 5.0	678.61	684.27	689.43	707.40	689.03	696.42	704.12
G 7.5	602.23	614.61	616.32	632.61	619.15	634.69	631.43
G 10.0	519.36	532.50	531.28	539.72	540.91	559.05	549.57
G 12.5	446.45	443.53	433.84	458.54	451.65	469.20	459.71
G 15.0	355.83	366.31	362.18	377.85	362.25	388.30	379.01
G 17.5	267.60	290.20	295.82	311.23	290.62	312.05	303.35
G 20.0	216.77	234.38	231.41	249.08	237.55	250.19	240.47
G 22.5	175.05	187.62	188.50	191.47	187.78	204.60	195.02
G 25.0	143.01	146.89	142.11	151.46	152.33	159.67	150.94
G 27.5	113.20	116.68	112.78	121.16	116.32	125.19	117.07
G 30.0	80.57	88.90	91.34	96.37	89.40	96.58	94.95
G 32.5	64.55	70.34	71.72	76.56	69.56	75.14	70.72
G 35.0	51.55	55.37	54.61	59.03	56.26	59.73	56.79
G 37.5	41.36	44.09	44.40	45.24	44.09	48.26	45.66
G 40.0	33.81	34.49	34.09	36.60	36.28	37.92	36.05
G 42.5	26.63	27.52	27.85	30.03	28.89	30.28	29.82
G 45.0	20.06	21.86	23.12	24.68	23.46	25.11	25.11
G 47.5	16.44	17.26	18.28	20.41	19.61	20.69	20.20
G 50.0	13.41	14.17	15.09	16.50	16.52	17.58	17.27
G 52.5	11.11	11.68	12.26	13.40	14.07	14.66	14.03
G 55.0	8.68	9.10	9.63	11.11	11.81	12.36	11.84
G 57.5	6.28	6.97	7.77	9.07	9.49	10.09	10.09
G 60.0	4.33	5.22	6.21	7.31	7.47	8.21	8.20
G 62.5	3.09	3.78	4.52	5.76	6.09	6.59	6.59
G 65.0	2.25	2.83	3.40	4.29	4.83	5.36	5.26
G 67.5	1.66	2.02	2.36	3.18	3.85	4.25	4.02
G 70.0	1.25	1.49	1.76	2.49	2.94	3.30	3.24
G 72.5	0.87	1.09	1.32	1.88	2.21	2.57	2.56
G 75.0	0.60	0.78	0.95	1.43	1.63	1.92	1.90
G 77.5	0.42	0.55	0.64	1.01	1.18	1.39	1.33
G 80.0	0.32	0.41	0.48	0.65	0.81	0.98	0.93
G 82.5	0.32	0.32	0.33	0.45	0.56	0.61	0.57
G 85.0	0.30	0.28	0.28	0.33	0.33	0.37	0.38
G 87.5	0.23	0.25	0.26	0.26	0.23	0.23	0.23
G 90.0	0.20	0.21	0.23	0.24	0.20	0.20	0.20

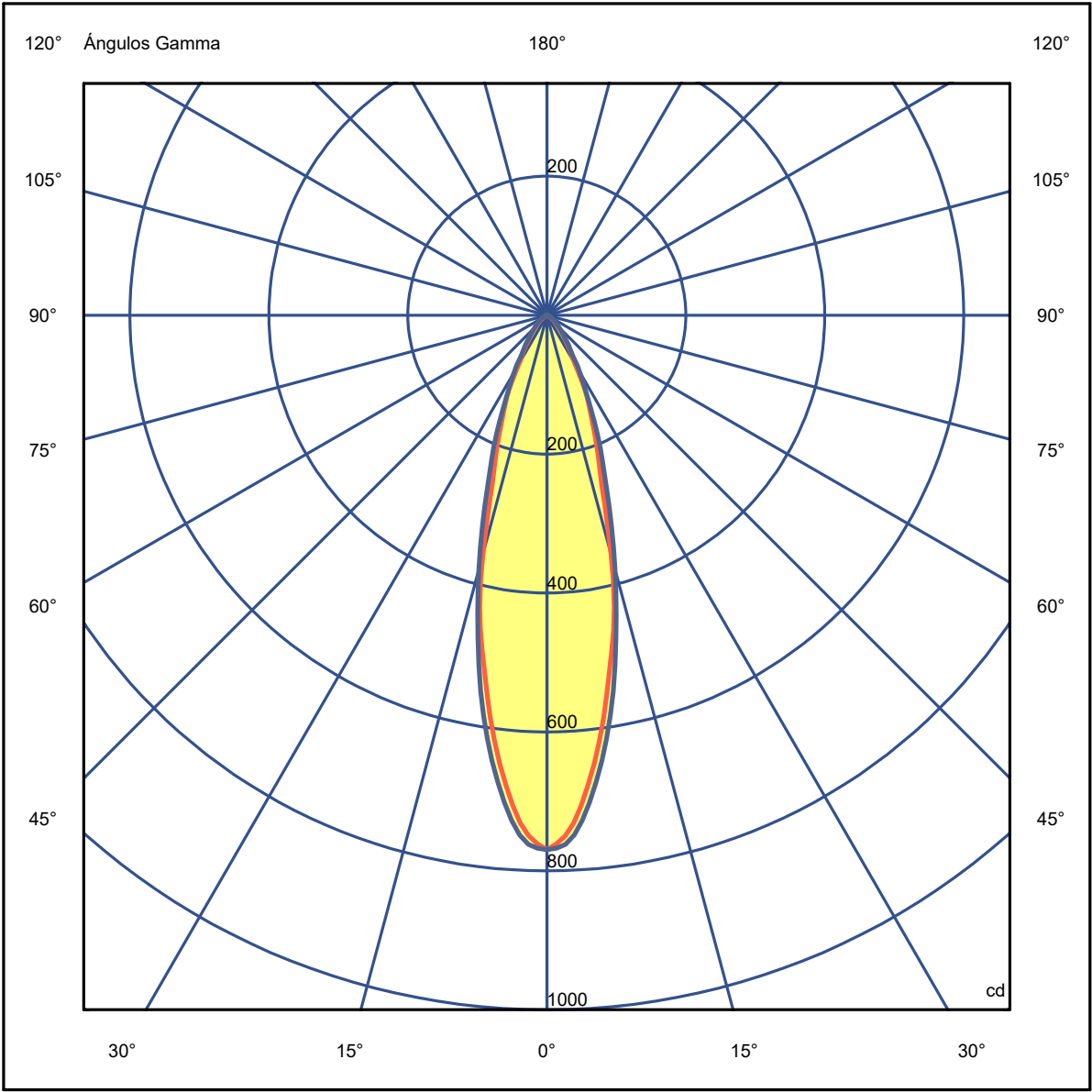
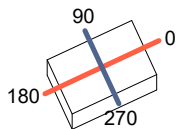
Luminaria
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Ensayo
Código CL041A21F023G
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Flujo Fuentes de luz	304.99 lm	Valor Máximo	769.38 cd	Posición	C=0.00 G=0.00	CG	Bisimétrico

80mm x 125mm

Semiplanos C

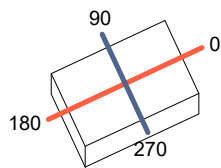
180.0 0.0
270.0 90.0



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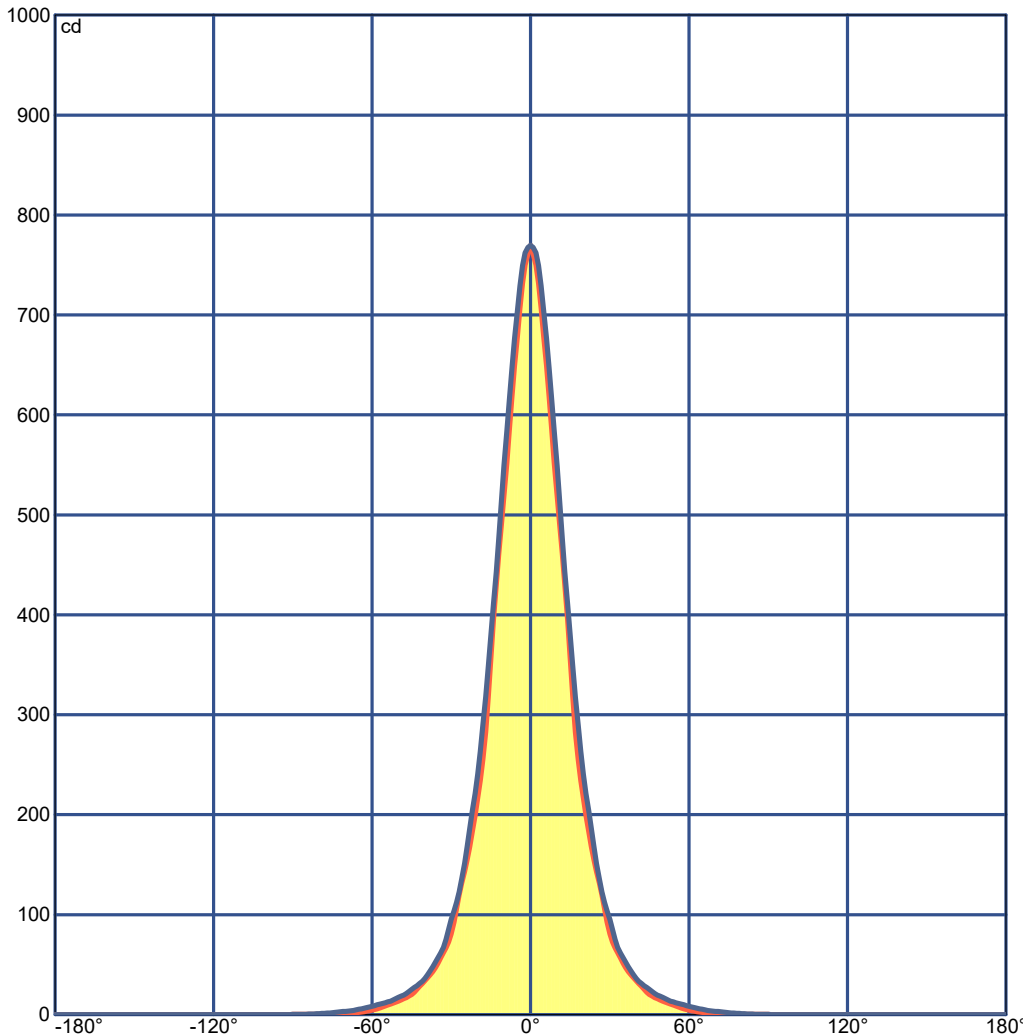
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180.0	0.0
270.0	90.0



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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	21.1	21.8	21.3	22.0	22.2	22.1	22.8	22.3	23.0	23.2
x=2H y=3H	21.1	21.7	21.3	22.0	22.2	22.4	23.1	22.7	23.3	23.5
x=2H y=4H	21.0	21.7	21.3	21.9	22.2	22.5	23.1	22.8	23.4	23.6
x=2H y=6H	21.0	21.6	21.3	21.8	22.1	22.5	23.1	22.8	23.4	23.6
x=2H y=8H	20.9	21.5	21.3	21.8	22.1	22.5	23.0	22.8	23.3	23.6
x=2H y=12H	20.9	21.4	21.3	21.7	22.1	22.4	23.0	22.8	23.3	23.6
x=4H y=2H	21.2	21.8	21.5	22.1	22.3	22.1	22.8	22.4	23.0	23.3
x=4H y=3H	21.2	21.8	21.6	22.1	22.4	22.5	23.0	22.9	23.3	23.6
x=4H y=4H	21.2	21.7	21.6	22.0	22.3	22.6	23.1	23.0	23.4	23.8
x=4H y=6H	21.2	21.5	21.6	21.9	22.3	22.7	23.1	23.1	23.5	23.8
x=4H y=8H	21.1	21.5	21.5	21.9	22.3	22.7	23.0	23.1	23.4	23.8
x=4H y=12H	21.1	21.4	21.6	21.8	22.2	22.7	23.0	23.1	23.4	23.8
x=8H y=4H	21.2	21.5	21.6	21.9	22.3	22.6	22.9	23.0	23.3	23.7
x=8H y=6H	21.1	21.4	21.6	21.8	22.3	22.7	22.9	23.1	23.3	23.8
x=8H y=8H	21.1	21.3	21.6	21.8	22.2	22.7	22.9	23.1	23.3	23.8
x=8H y=12H	21.1	21.3	21.6	21.8	22.3	22.7	22.9	23.2	23.3	23.8
x=12H y=4H	21.3	21.6	21.7	22.0	22.4	22.6	22.9	23.0	23.3	23.7
x=12H y=6H	21.3	21.5	21.7	21.9	22.4	22.6	22.9	23.1	23.3	23.8
x=12H y=8H	21.2	21.4	21.7	21.9	22.4	22.7	22.8	23.2	23.3	23.8

Luminaria

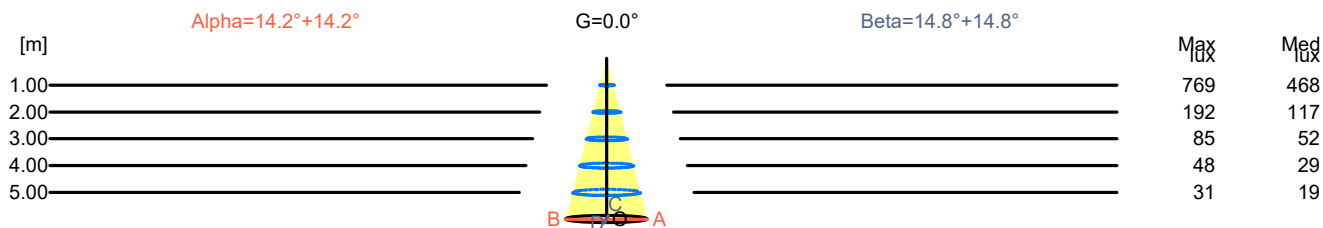
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Apertura a 50.00 % de Max Intensidad

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	0.25	0.51	0.76	1.02	1.27	OC	0.26	0.53	0.79	1.06	1.32
OB	0.25	0.51	0.76	1.02	1.27	OD	0.26	0.53	0.79	1.06	1.32

	0	5	15	25	35	45	55	65	75	85
OA	769.38	678.61	355.83	143.01	51.55	20.06	8.68	2.25	0.60	0.30
OB	769.38	678.61	355.83	143.01	51.55	20.06	8.68	2.25	0.60	0.30
OC	769.38	704.12	379.01	150.94	56.79	25.11	11.84	5.26	1.90	0.38
OD	769.38	704.12	379.01	150.94	56.79	25.11	11.84	5.26	1.90	0.38



H[m]	D[m]	Max lux	Med lux	Alpha=14.2°+14.2°	G=0.0
1.00	0.51	769	468		
2.00	1.02	192	117		
3.00	1.52	85	52		
4.00	2.03	48	29		
5.00	2.54	31	19		

H[m]	D[m]	Max lux	Med lux	Beta=14.8°+14.8°	G=0.0
1.00	0.53	769	468		
2.00	1.06	192	117		
3.00	1.59	85	52		
4.00	2.12	48	29		
5.00	2.65	31	19		

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Flujo Fuentes de luz	304.99 lm	Valor Máximo	769.38 cd	Posición	C=0.00 G=0.00	CG Bisimétrico	

Flujo Total=304.99 Flujo Luminaria=304.99

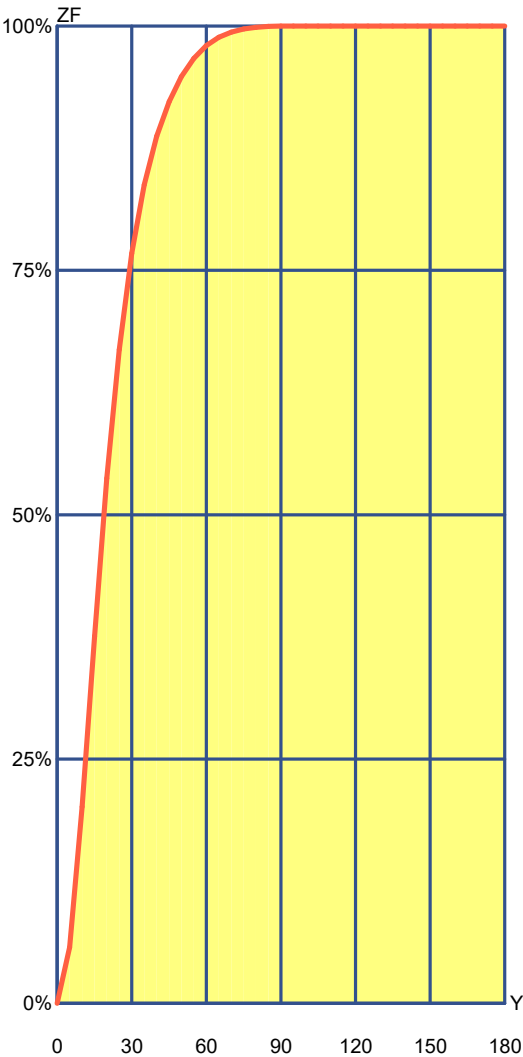
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.65	0.71	0.76	0.81	0.84	0.89	0.92	0.95	0.97	0.98	1.00	1.01
RC	-	-	-	-	-	-	-	-	-	-	-	-

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)	201	537	767	887	948	980	994	999	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Códigos de Flujo C.I.E.
90 98 100 100 100

C.I.E.	-/-/-/-/-/-/-/-/-/-	LOR	100.00000 %
D DIN 5040	A60	ULOR	0.00000 %
F UTE	1.00 A	DLOR	100.00000 %
B NBN	BZ 1	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°	57.21	57.21	5.72 %	5.72 %
10°	143.80	201.01	14.38 %	20.10 %
15°	174.76	375.77	17.48 %	37.58 %
20°	161.49	537.26	16.15 %	53.73 %
25°	131.61	668.88	13.16 %	66.89 %
30°	98.54	767.41	9.85 %	76.74 %
35°	70.18	837.59	7.02 %	83.76 %
40°	49.65	887.24	4.96 %	88.72 %
45°	35.36	922.60	3.54 %	92.26 %
50°	25.63	948.23	2.56 %	94.82 %
55°	18.79	967.02	1.88 %	96.70 %
60°	13.12	980.14	1.31 %	98.01 %
65°	8.51	988.65	0.85 %	98.87 %
70°	5.23	993.89	0.52 %	99.39 %
75°	3.12	997.01	0.31 %	99.70 %
80°	1.70	998.70	0.17 %	99.87 %
85°	0.84	999.54	0.08 %	99.95 %
90°	0.46	1000.00	0.05 %	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

