

Luminaire

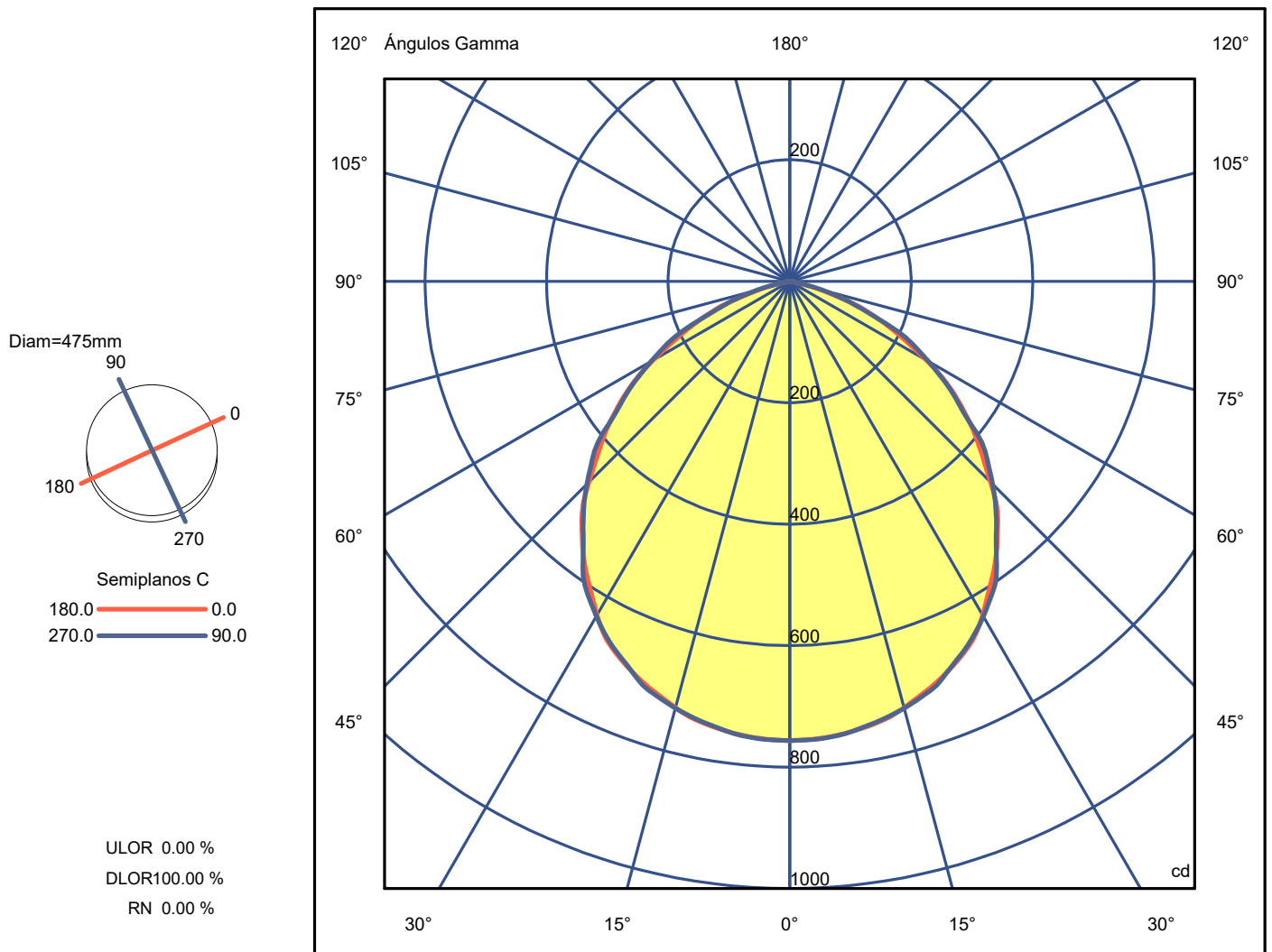
Code 487093/4A
Name DUO 4870 4000K

Measurement

Code CL252A21F021GE1
Name DUO 4870 4000K

Luminaire Flux	1869.75 lm	Luminaire Power	25.84 W	Efficacy	72.36 lm/W	Efficiency	100.00%
Sources Flux	1869.75 lm	Maximum value	756.19 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical
Round Luminaire Round Luminous Area	Diam. Diam.	475 mm 440 mm	Height Height	120 mm 0 mm			
Horizontal Luminous Area Emitting area on Plane 0° Emitting area on Plane 90°	0.152053 m2 0.000000 m2 0.000000 m2	Emitting area on Plane 180° Emitting area on Plane 270° Glare area at 76°		0.000000 m2 0.000000 m2 0.036785 m2			
Coordinate system Date Measurement Distance	CG 14-09-2021 6.44	Symmetry Type Maximum Gamma Angle Measurement Flux		Double Symmetrical 90 1869.75 lm			
Operator Temperature Humidity Notes	Asselum T2 25.10 °C 73.40 %	Rated Voltage Rated Current Photocell		230.10 V 0.13 A Prc			

Line		Code LED	Luminaire Sources Name LED		Flux [lm] 1869.75	Pow. [W] 25.84	Q.ty 1
C.I.E. F UTE	54 86 99 100 100 1.00 D		D DIN 5040 B NBN	A40 BZ 4 / 1 / BZ 3			



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Luminous Intensity Table cd Table 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	756.19	756.19	756.19	756.19	756.19	756.19	756.19
G 2.5	755.19	755.19	755.49	755.50	755.13	755.46	755.56
G 5.0	752.69	752.48	753.03	753.39	752.74	752.81	753.52
G 7.5	748.96	748.61	748.87	748.81	749.06	749.05	749.14
G 10.0	743.67	743.45	742.04	743.37	743.95	744.09	742.35
G 12.5	737.16	736.10	735.35	735.87	737.64	736.80	735.69
G 15.0	726.81	726.58	726.95	727.78	727.33	727.52	727.59
G 17.5	714.75	715.99	717.50	716.45	715.21	716.28	718.14
G 20.0	703.41	702.90	703.65	704.30	704.02	704.27	707.37
G 22.5	690.48	689.87	690.59	691.07	691.35	691.48	689.32
G 25.0	676.12	675.24	672.26	675.52	677.08	676.78	673.66
G 27.5	658.94	656.41	655.48	655.72	657.08	658.58	656.56
G 30.0	634.60	634.38	636.05	637.32	637.41	636.88	636.91
G 32.5	608.19	607.59	615.11	612.20	609.59	611.66	615.99
G 35.0	584.36	583.86	584.49	586.18	586.72	586.59	593.04
G 37.5	559.24	558.55	560.37	560.41	561.75	561.63	557.85
G 40.0	532.24	532.49	525.63	531.73	535.74	532.76	528.88
G 42.5	504.51	501.18	498.91	499.83	501.46	505.18	501.36
G 45.0	467.34	467.40	470.10	471.80	468.96	470.61	472.35
G 47.5	431.75	431.38	440.64	437.33	434.73	437.62	442.54
G 50.0	400.52	400.25	401.18	402.74	404.11	404.48	412.62
G 52.5	368.26	368.76	369.54	370.32	372.69	373.57	366.05
G 55.0	335.59	336.03	329.61	334.49	340.50	336.05	332.24
G 57.5	300.77	298.39	295.86	297.11	295.12	303.02	298.10
G 60.0	260.40	259.10	261.77	260.64	262.30	263.35	264.23
G 62.5	218.89	218.84	225.64	226.12	223.20	226.19	231.72
G 65.0	185.35	186.54	189.38	189.03	190.88	191.65	198.14
G 67.5	152.62	153.35	154.12	153.96	158.09	153.79	151.14
G 70.0	121.36	122.14	114.68	120.64	121.83	122.70	116.08
G 72.5	82.57	86.74	83.82	85.68	83.95	86.49	85.79
G 75.0	51.50	52.94	55.23	55.82	53.66	57.84	55.75
G 77.5	24.58	30.73	28.82	34.28	27.62	33.30	30.94
G 80.0	9.51	17.38	10.31	19.49	11.35	16.88	13.06
G 82.5	6.52	7.29	6.77	7.41	7.23	7.89	6.94
G 85.0	4.25	4.11	3.97	4.49	4.42	4.59	4.33
G 87.5	1.51	1.97	1.87	2.11	1.95	2.16	1.93
G 90.0	0.80	0.81	0.80	0.81	0.80	0.79	0.77

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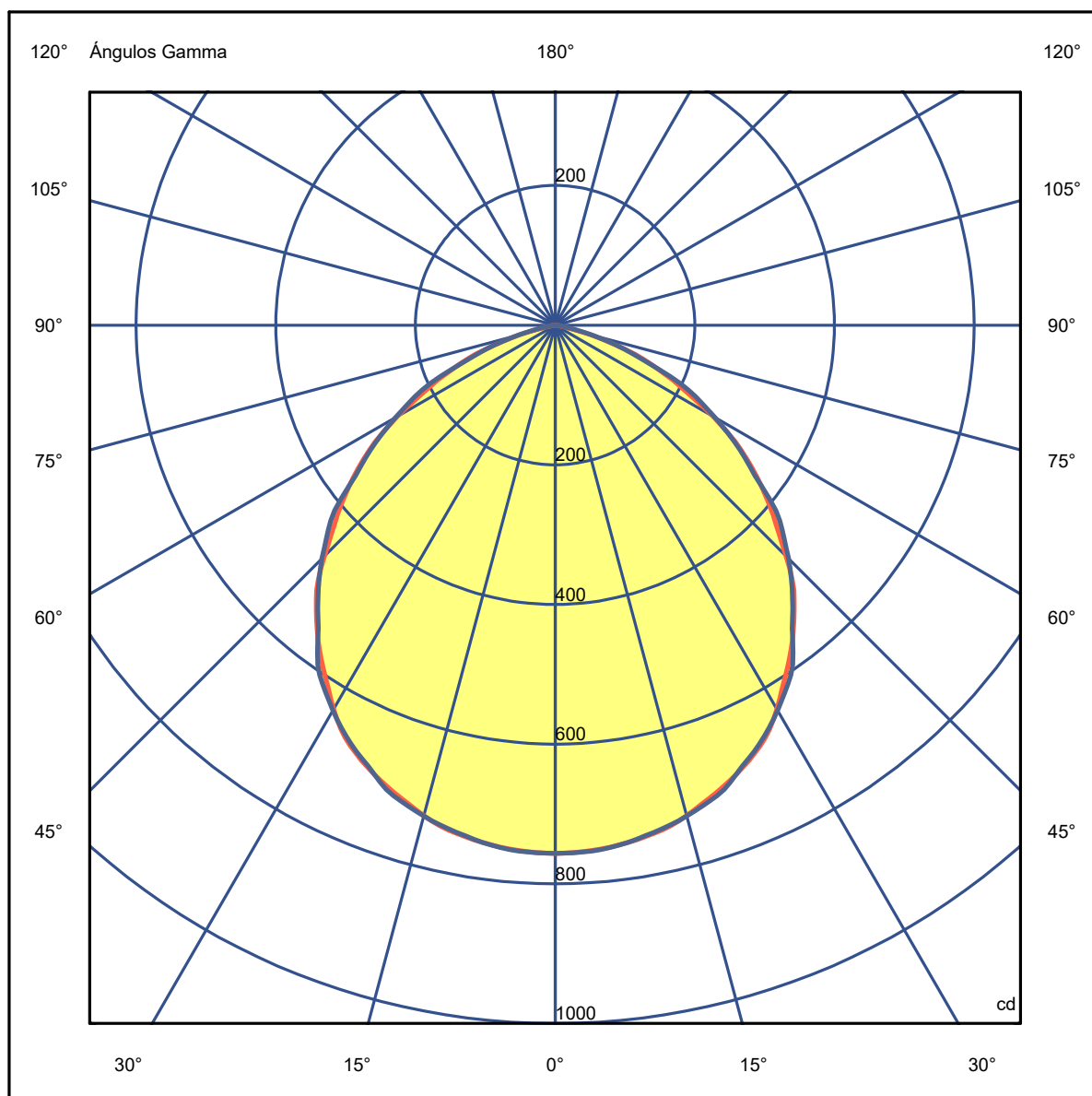
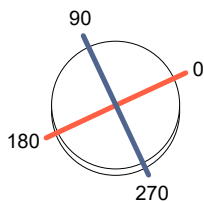
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Sources Flux	1869.75 lm	Maximum value	756.19 cd	Position	C=0.00 G=0.00	CG Double Symmetrical	

Diam=475mm

Semiplanos C

180.0 ————— 0.0
270.0 ————— 90.0



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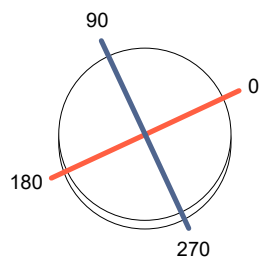
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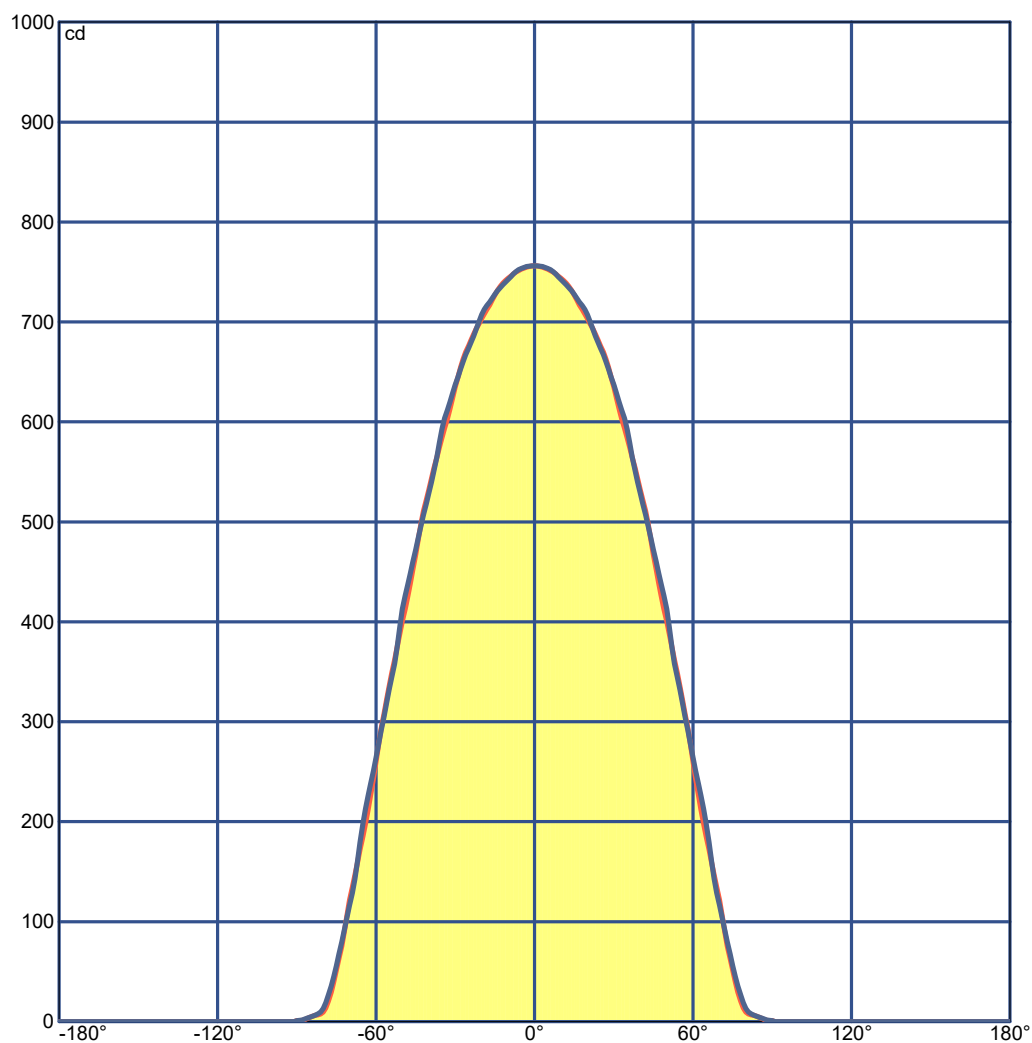
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Sources Flux	1869.75 lm	Maximum value	756.19 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

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
Working Plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions										
	Lateral View					Viewed Endwise				
x=2H y=2H	17.2	18.4	17.5	18.6	18.8	17.2	18.5	17.5	18.7	18.9
x=2H y=3H	18.1	19.2	18.4	19.4	19.7	18.2	19.3	18.5	19.5	19.8
x=2H y=4H	18.2	19.3	18.6	19.5	19.8	18.3	19.3	18.6	19.6	19.9
x=2H y=6H	18.2	19.2	18.6	19.5	19.8	18.3	19.3	18.7	19.6	19.9
x=2H y=8H	18.2	19.1	18.5	19.4	19.7	18.3	19.2	18.6	19.5	19.8
x=2H y=12H	18.2	19.0	18.5	19.3	19.7	18.3	19.1	18.6	19.4	19.8
x=4H y=2H	17.7	18.7	18.0	19.0	19.2	17.7	18.7	18.0	19.0	19.3
x=4H y=3H	18.7	19.6	19.1	19.9	20.2	18.8	19.6	19.1	19.9	20.3
x=4H y=4H	18.9	19.7	19.3	20.0	20.4	19.0	19.7	19.4	20.1	20.4
x=4H y=6H	18.9	19.6	19.3	19.9	20.3	19.0	19.7	19.4	20.0	20.4
x=4H y=8H	18.9	19.5	19.3	19.9	20.3	19.0	19.6	19.4	20.0	20.4
x=4H y=12H	18.8	19.4	19.3	19.8	20.2	18.9	19.5	19.4	19.9	20.3
x=8H y=4H	18.9	19.5	19.4	19.9	20.3	19.0	19.6	19.4	20.0	20.4
x=8H y=6H	19.0	19.4	19.4	19.9	20.3	19.0	19.5	19.5	20.0	20.4
x=8H y=8H	18.9	19.4	19.4	19.8	20.3	19.0	19.5	19.5	19.9	20.4
x=8H y=12H	18.9	19.3	19.4	19.7	20.2	19.0	19.4	19.5	19.8	20.3
x=12H y=4H	19.0	19.5	19.4	19.9	20.3	19.0	19.6	19.5	20.0	20.4
x=12H y=6H	19.0	19.4	19.5	19.9	20.3	19.1	19.5	19.6	20.0	20.4
x=12H y=8H	19.0	19.3	19.5	19.8	20.3	19.1	19.4	19.5	19.9	20.4

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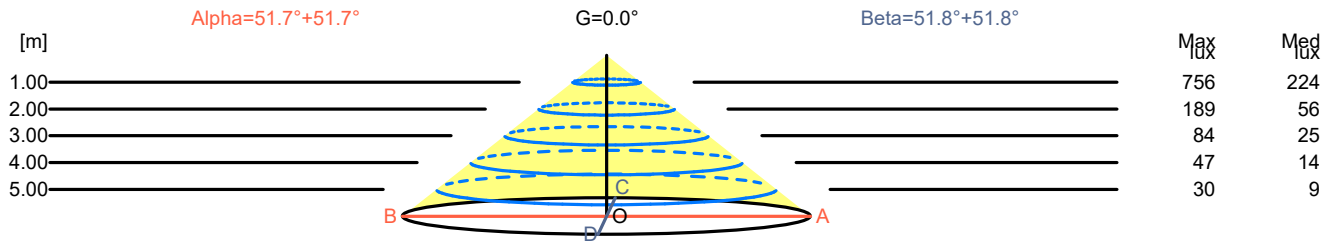
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Sources Flux	1869.75 lm	Maximum value	756.19 cd	Position	C=0.00 G=0.00	CG Double Symmetrical	

Width at 50.00 % of Max Intensity

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	1.27	2.54	3.80	5.07	6.34	OC	1.27	2.55	3.82	5.09	6.36
OB	1.27	2.54	3.80	5.07	6.34	OD	1.27	2.55	3.82	5.09	6.36

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	756.19	752.69	726.81	676.12	584.36	467.34	335.59	185.35	51.50	4.25
OB	756.19	752.69	726.81	676.12	584.36	467.34	335.59	185.35	51.50	4.25
OC	756.19	753.52	727.59	673.66	593.04	472.35	332.24	198.14	55.75	4.33
OD	756.19	753.52	727.59	673.66	593.04	472.35	332.24	198.14	55.75	4.33



H[m]	D[m]	Max lux	Med lux	Alpha=51.7°+51.7°	G=0.0	
1.00	2.54	756	224			
2.00	5.07	189	56			
3.00	7.61	84	25			
4.00	10.15	47	14			
5.00	12.68	30	9			

H[m]	D[m]	Max lux	Med lux	Beta=51.8°+51.8°	G=0.0	
1.00	2.55	756	224			
2.00	5.09	189	56			
3.00	7.64	84	25			
4.00	10.18	47	14			
5.00	12.73	30	9			

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Flujo Total=1869.75 Flujo Luminaria=1869.75

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	0.44	0.52	0.59	0.65	0.73	0.79	0.82	0.87	0.89	0.94	0.97
RC	4	4	4	4	4	3	3	3	3	3	3	3

Flujo Zonal por 1000 Lúmenes

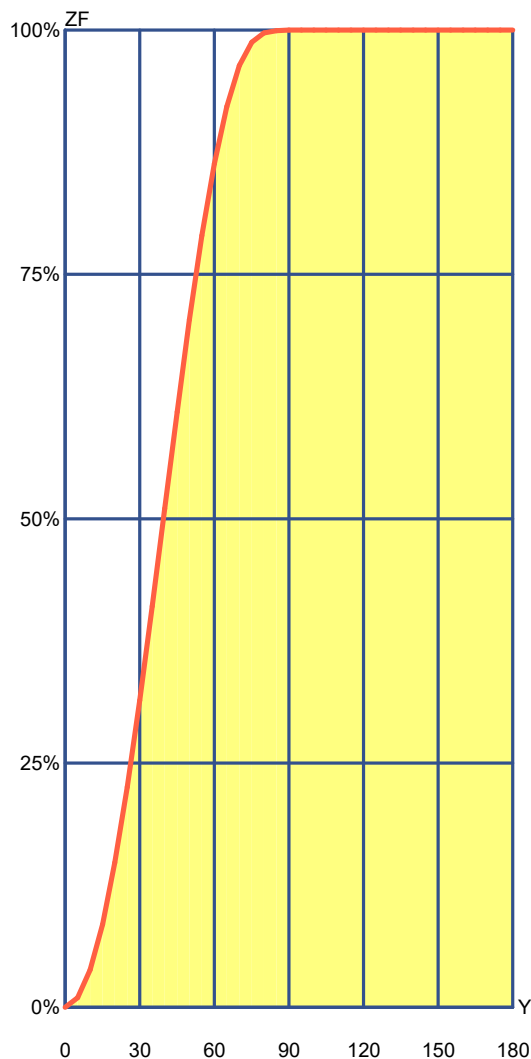
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	38	148	314	510	704	863	964	997	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Códigos de Flujo C.I.E.

54 86 99 100 100

C.I.E. 4/4/4/4/4/3/3/3/3/3
D DIN 5040 A40
F UTE 1.00 D
B NBN BZ 4 / 1 / BZ 3
RN 0.00000 %
BLF 1.0

LOR 100.00000 %
ULOR 0.00000 %
DLOR 100.00000 %
UFF 0.00000 %
DFF 100.00000 %
FFR 0.00000 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	9.65	9.65	0.96 %	0.96 %
10°	28.63	38.28	2.86 %	3.83 %
15°	46.66	84.94	4.67 %	8.49 %
20°	63.08	148.02	6.31 %	14.80 %
25°	77.39	225.41	7.74 %	22.54 %
30°	88.79	314.20	8.88 %	31.42 %
35°	96.22	410.42	9.62 %	41.04 %
40°	99.78	510.20	9.98 %	51.02 %
45°	99.17	609.37	9.92 %	60.94 %
50°	94.27	703.64	9.43 %	70.36 %
55°	85.93	789.57	8.59 %	78.96 %
60°	73.68	863.25	7.37 %	86.33 %
65°	58.45	921.70	5.84 %	92.17 %
70°	41.83	963.53	4.18 %	96.35 %
75°	24.10	987.63	2.41 %	98.76 %
80°	9.30	996.93	0.93 %	99.69 %
85°	2.41	999.34	0.24 %	99.93 %
90°	0.66	1000.00	0.07 %	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 (Floor)

Luminaire position X=0.00m Y=0.00m Z=2.50m

