

Luminaire

Code A709-020-51-27K

Name IHANA

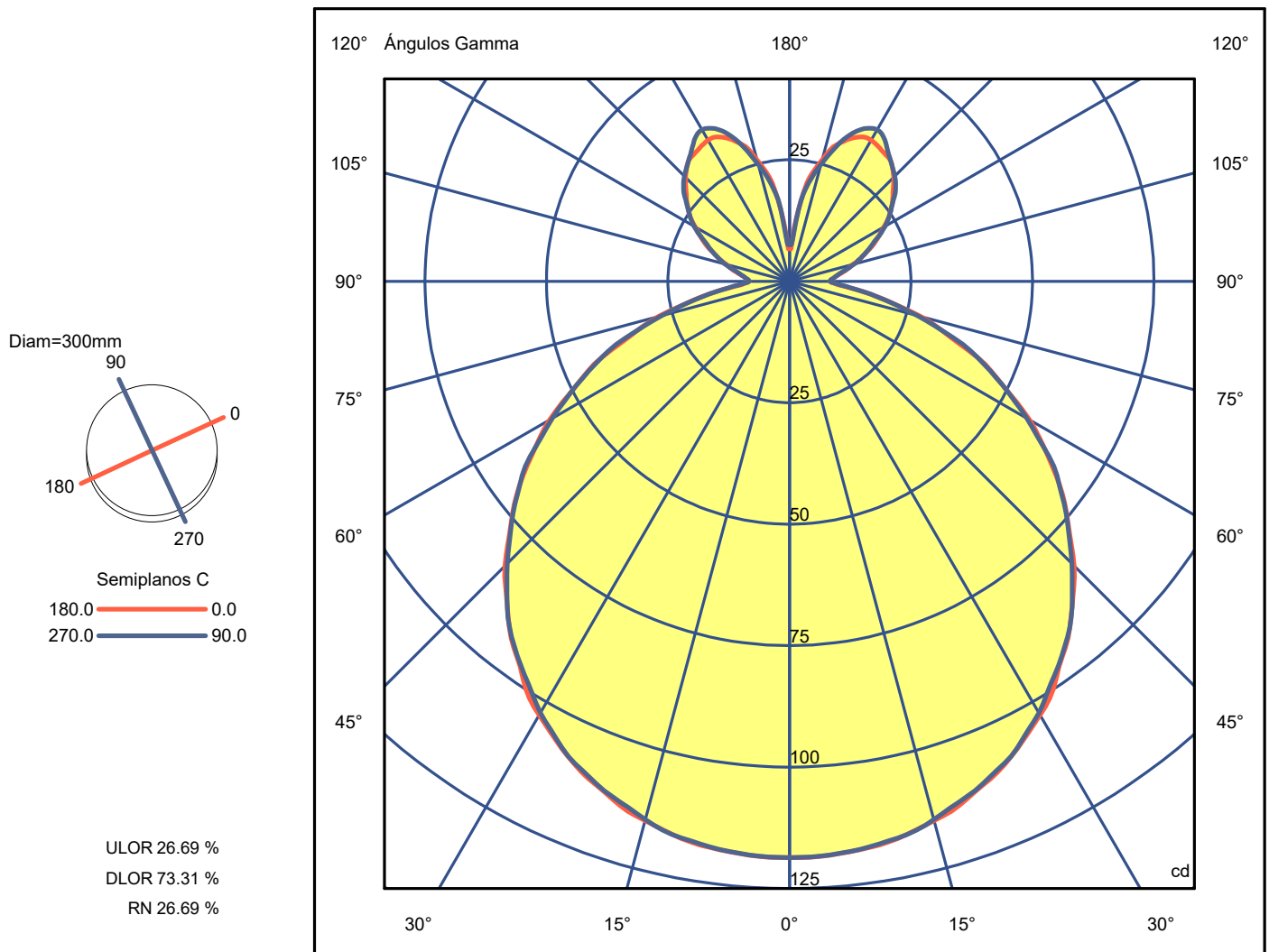
Measurem.

Code CL041A21F033G

Name IHANA

Luminaire Flux	497.33 lm	Luminaire Power	8.75 W	Efficacy	56.86 lm/W	Efficiency	100.00%
Sources Flux	497.33 lm	Maximum value	118.60 cd	Position	C=0.00 G=2.50	CG	Double Symmetrical
Round Luminaire		Diam.	300 mm	Height	50 mm		
Round Luminous Area		Diam.	300 mm	Height	50 mm		
Horizontal Luminous Area		0.070686 m2		Emitting area on Plane 180°		0.015000 m2	
Emitting area on Plane 0°		0.015000 m2		Emitting area on Plane 270°		0.015000 m2	
Emitting area on Plane 90°		0.015000 m2		Glare area at 76°		0.031655 m2	
Coordinate system		CG		Symmetry Type		Double Symmetrical	
Date		28-09-2021		Maximum Gamma Angle		180	
Measurement Distance		6.44		Measurement Flux		497.33 lm	
Operator		ASSELUM		Rated Voltage		230.17 V	
Temperature		25.90 °C		Rated Current		0.05 A	
Humidity		51.80 %		Photocell		Prc	
Notes		RM21070704					

Line		Code		Luminaire Sources		Flux [lm]	Pow. [W]	Q.ty
		LED		Name				
				LED 700mA		497.33	8.75	1
C.I.E.	45 76 93 73 100			D DIN 5040		B31		
F UTE	0.73 E + 0.27 T			B NBN		BZ 5		



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Measur.

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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	118.58	118.58	118.58	118.58	118.58	118.58	118.58
G 2.5	118.60	118.59	118.58	118.57	118.56	118.55	118.54
G 5.0	118.25	118.20	118.19	118.20	118.20	118.20	118.20
G 7.5	117.78	117.71	117.70	117.71	117.71	117.71	117.70
G 10.0	117.19	117.08	117.05	117.04	117.00	116.96	116.94
G 12.5	116.10	115.96	115.92	115.96	116.05	116.15	116.20
G 15.0	114.92	114.82	114.81	114.82	114.78	114.73	114.70
G 17.5	113.71	113.50	113.39	113.30	113.16	113.03	112.97
G 20.0	111.74	111.51	111.46	111.49	111.52	111.53	111.53
G 22.5	110.07	109.82	109.76	109.75	109.72	109.67	109.64
G 25.0	107.91	107.66	107.62	107.69	107.76	107.82	107.84
G 27.5	105.49	105.19	105.06	105.03	105.05	105.09	105.11
G 30.0	103.07	102.76	102.61	102.55	102.54	102.55	102.55
G 32.5	100.49	99.93	99.47	99.20	99.17	99.26	99.32
G 35.0	96.70	96.36	96.33	96.41	96.46	96.46	96.45
G 37.5	93.72	93.36	93.32	93.40	93.46	93.48	93.48
G 40.0	90.09	89.80	89.92	90.27	90.31	90.24	90.19
G 42.5	86.43	86.16	86.15	86.21	86.19	86.12	86.08
G 45.0	82.84	82.52	82.49	82.51	82.41	82.24	82.16
G 47.5	78.39	77.90	77.89	78.18	78.18	78.10	78.06
G 50.0	74.45	73.98	74.03	74.39	74.42	74.35	74.29
G 52.5	70.41	69.98	70.11	70.50	70.48	70.32	70.22
G 55.0	65.81	65.50	65.77	66.33	66.47	66.45	66.41
G 57.5	61.44	61.02	61.01	61.29	61.25	61.15	61.08
G 60.0	57.07	56.55	56.47	56.69	56.59	56.43	56.34
G 62.5	51.78	51.23	51.25	51.61	51.64	51.57	51.52
G 65.0	47.08	46.58	46.72	47.18	47.18	47.03	46.93
G 67.5	42.71	42.15	42.22	42.66	42.70	42.62	42.57
G 70.0	36.80	36.64	36.99	37.47	37.79	37.93	37.96
G 72.5	32.37	31.94	31.99	32.35	32.37	32.29	32.24
G 75.0	27.87	27.38	27.32	27.55	27.44	27.25	27.16
G 77.5	22.68	22.12	22.12	22.48	22.50	22.43	22.38
G 80.0	18.46	17.98	18.04	18.42	18.46	18.41	18.36
G 82.5	14.79	14.38	14.44	14.78	14.79	14.70	14.64
G 85.0	11.02	10.82	10.90	11.13	11.38	11.57	11.65
G 87.5	9.14	8.95	8.87	8.93	9.09	9.28	9.37
G 90.0	8.38	8.31	8.25	8.23	8.25	8.29	8.30
G 92.5	8.67	8.67	8.62	8.53	8.51	8.52	8.57
G 95.0	9.26	9.27	9.20	9.11	9.08	9.10	9.17
G 97.5	10.05	10.08	10.01	9.94	9.93	9.96	9.97
G100.0	11.20	11.23	11.19	11.11	11.02	10.96	10.93
G102.5	12.33	12.40	12.36	12.18	12.19	12.24	12.26
G105.0	13.49	13.65	13.70	13.59	13.66	13.75	13.79
G107.5	15.13	15.21	15.12	14.96	14.95	15.01	15.04
G110.0	16.44	16.51	16.44	16.36	16.34	16.37	16.39
G112.5	18.09	18.11	17.96	17.76	17.73	17.77	17.80
G115.0	19.56	19.63	19.59	19.48	19.34	19.21	19.16
G117.5	20.96	21.02	20.99	20.86	20.88	20.94	20.97
G120.0	22.39	22.53	22.56	22.49	22.56	22.66	22.70
G122.5	24.08	24.15	24.08	24.01	24.01	24.06	24.10
G125.0	25.40	25.45	25.39	25.32	25.34	25.41	25.45
G127.5	26.63	26.78	26.83	26.74	26.75	26.78	26.79
G130.0	27.75	27.96	28.13	28.25	28.33	28.37	28.39
G132.5	28.97	29.19	29.38	29.50	29.56	29.59	29.59
G135.0	30.31	30.55	30.77	30.96	30.87	30.70	30.61
G137.5	31.38	31.63	31.82	31.90	31.76	31.56	31.45
G140.0	32.37	32.45	32.53	32.64	32.55	32.43	32.37
G142.5	32.69	32.78	32.87	32.98	33.14	33.29	33.35
G145.0	32.98	32.75	32.58	32.75	33.42	34.19	34.57
G147.5	33.33	32.41	31.56	31.59	32.99	34.78	35.67
G150.0	33.55	31.95	30.23	29.79	31.83	34.64	36.06
G152.5	33.45	31.21	28.92	28.38	30.66	33.91	35.57
G155.0	32.75	30.17	27.47	26.71	29.11	32.65	34.47
G157.5	31.66	28.99	26.11	25.16	27.45	30.93	32.73
G160.0	30.30	27.81	25.01	23.92	25.80	28.83	30.41
G162.5	28.72	26.44	23.79	22.56	23.91	26.31	27.60
G165.0	25.95	23.95	21.97	20.90	21.95	23.85	24.87
G167.5	23.39	21.65	20.00	19.26	20.08	21.60	22.41
G170.0	20.58	19.21	17.94	17.39	17.90	18.93	19.49
G172.5	15.91	14.76	13.69	13.38	14.12	15.34	15.98
G175.0	11.03	11.08	10.73	10.32	10.30	10.17	10.10
G177.5	6.78	7.87	8.77	9.10	8.66	7.92	7.53
G180.0	8.45	8.45	8.45	8.45	8.45	8.45	8.45

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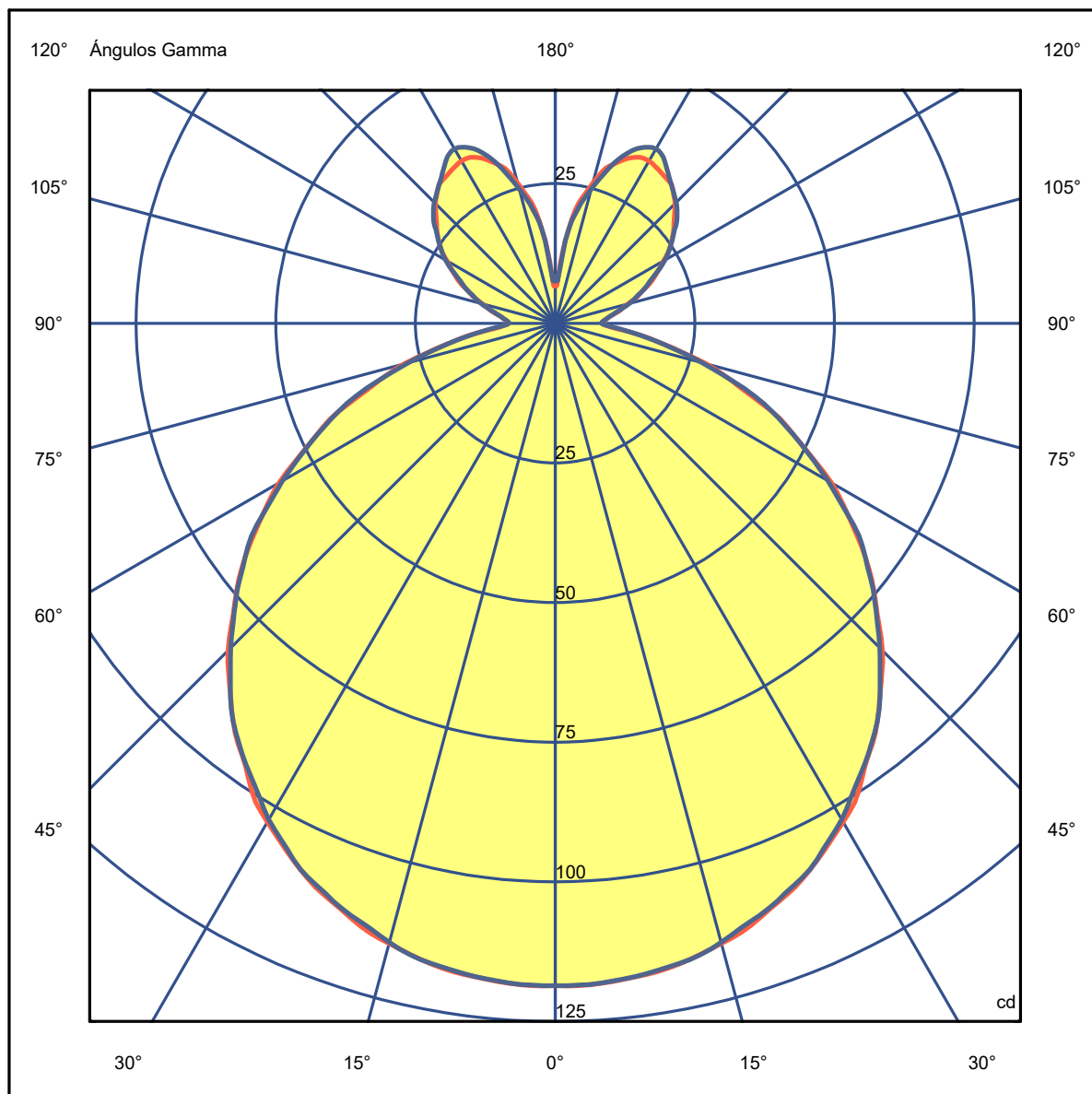
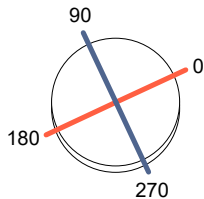
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Sources Flux	497.33 lm	Maximum value	118.60 cd	Position	C=0.00 G=2.50	CG Double Symmetrical	

Diam=300mm

Semiplanos C

180.0 ——— 0.0
270.0 ——— 90.0



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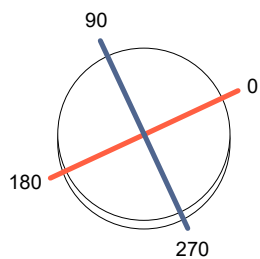
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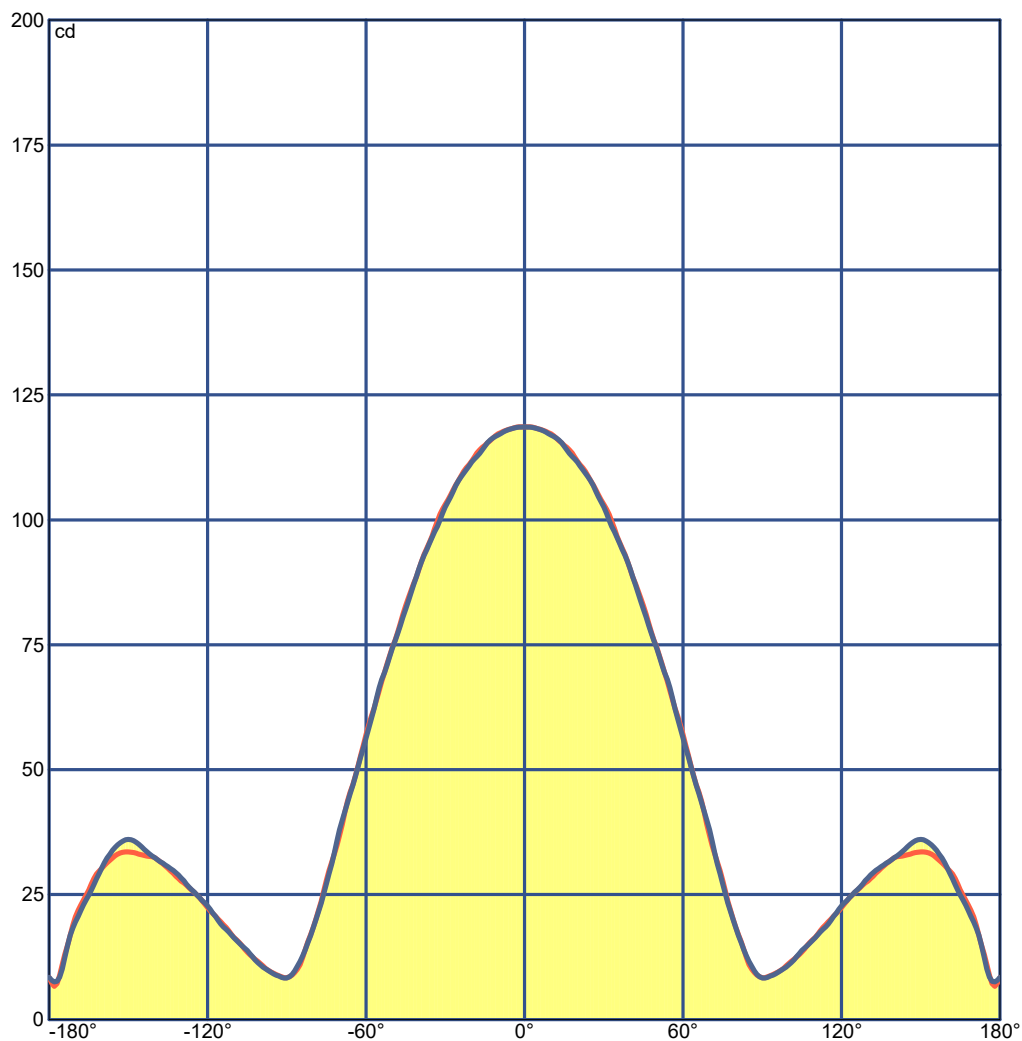
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Sources Flux	497.33 lm	Maximum value	118.60 cd	Position	C=0.00 G=2.50	CG Double Symmetrical	

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Sources Flux	497.33 lm	Maximum value	118.60 cd	Position	C=0.00 G=2.50	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										
Room Dimensions	Lateral View					Viewed Endwise				
x=2H y=2H	11.7	12.7	12.4	13.4	14.1	11.7	12.8	12.4	13.4	14.2
x=2H y=3H	13.2	14.1	13.8	14.8	15.5	13.2	14.1	13.9	14.8	15.6
x=2H y=4H	13.7	14.6	14.4	15.3	16.1	13.8	14.6	14.5	15.3	16.1
x=2H y=6H	14.1	14.9	14.8	15.6	16.4	14.1	14.9	14.9	15.6	16.5
x=2H y=8H	14.2	15.0	15.0	15.7	16.6	14.3	15.0	15.0	15.7	16.6
x=2H y=12H	14.3	15.1	15.1	15.8	16.6	14.4	15.1	15.1	15.8	16.7
x=4H y=2H	12.3	13.1	13.0	13.8	14.6	12.3	13.2	13.0	13.9	14.7
x=4H y=3H	13.9	14.6	14.6	15.3	16.2	13.9	14.7	14.7	15.4	16.3
x=4H y=4H	14.6	15.2	15.3	16.0	16.8	14.6	15.3	15.4	16.0	16.9
x=4H y=6H	15.1	15.6	15.8	16.4	17.3	15.1	15.7	15.9	16.4	17.3
x=4H y=8H	15.2	15.8	16.0	16.5	17.5	15.3	15.8	16.1	16.6	17.5
x=4H y=12H	15.4	15.8	16.2	16.6	17.6	15.4	15.9	16.2	16.7	17.6
x=8H y=4H	14.8	15.3	15.6	16.1	17.0	14.8	15.3	15.6	16.1	17.0
x=8H y=6H	15.4	15.8	16.2	16.6	17.6	15.4	15.9	16.3	16.7	17.7
x=8H y=8H	15.7	16.0	16.5	16.9	17.8	15.7	16.1	16.5	16.9	17.9
x=8H y=12H	15.9	16.2	16.7	17.0	18.0	15.9	16.3	16.8	17.1	18.1
x=12H y=4H	15.2	15.6	15.9	16.4	17.4	15.2	15.6	16.0	16.4	17.4
x=12H y=6H	15.7	16.1	16.6	16.9	17.9	15.8	16.1	16.6	17.0	17.9
x=12H y=8H	16.0	16.3	16.9	17.2	18.2	16.1	16.4	16.9	17.2	18.2

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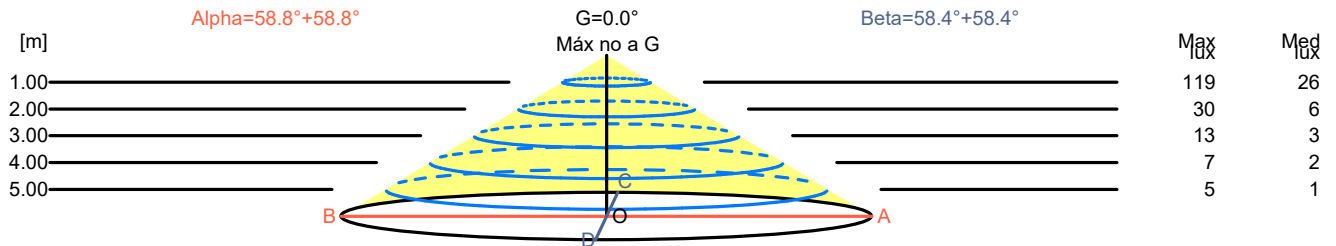
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Width at 50.00 % of Max Intensity

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	1.65	3.30	4.95	6.59	8.24	OC	1.63	3.25	4.88	6.50	8.13
OB	1.65	3.30	4.95	6.59	8.24	OD	1.63	3.25	4.88	6.50	8.13

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	118.58	118.25	114.92	107.91	96.70	82.84	65.81	47.08	27.87	11.02
OB	118.58	118.25	114.92	107.91	96.70	82.84	65.81	47.08	27.87	11.02
OC	118.58	118.20	114.70	107.84	96.45	82.16	66.41	46.93	27.16	11.65
OD	118.58	118.20	114.70	107.84	96.45	82.16	66.41	46.93	27.16	11.65



H[m]	D[m]	Max lux	Med lux	Alpha=58.8°+58.8°	G=0.0 Máx no a G
1.00	3.30	119	26		
2.00	6.59	30	6		
3.00	9.89	13	3		
4.00	13.19	7	2		
5.00	16.49	5	1		

H[m]	D[m]	Max lux	Med lux	Beta=58.4°+58.4°	G=0.0 Máx no a G
1.00	3.25	119	26		
2.00	6.50	30	6		
3.00	9.75	13	3		
4.00	13.00	7	2		
5.00	16.26	5	1		

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Flujo Total=497.33 Flujo Luminaria=497.33

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	0.29	0.37	0.44	0.51	0.57	0.66	0.71	0.76	0.81	0.84	0.91	0.95
RC	5	5	5	5	5	5	5	6	6	6	6	6

Flujo Zonal por 1000 Lúmenes

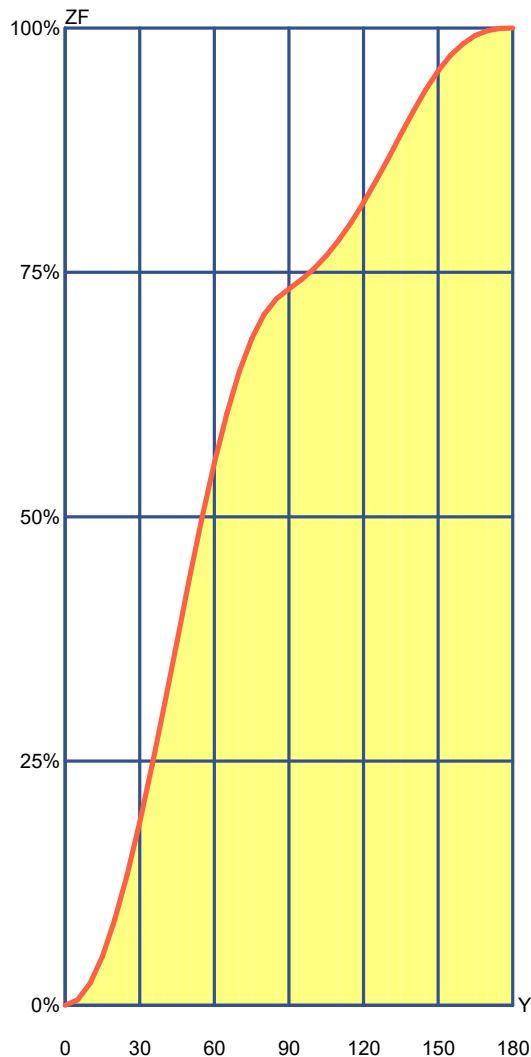
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	23	88	188	309	437	555	649	707	733	754	783	821	867	915	956	984	997	1000

Códigos de Flujo C.I.E.

45 76 93 73 100

C.I.E. 5/5/5/5/5/5/6/6/6/6
D DIN 5040 B31
F UTE 0.73 E + 0.27 T
B NBN BZ 5
RN 26.68521 %
BLF 1.0

LOR 100.00000 %
ULOR 26.68521 %
DLOR 73.31479 %
UFF 26.68521 %
DFF 73.31479 %
FFR 36.39813 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00 %	0.00 %
5°	5.69	5.69	0.57 %	0.57 %
10°	16.92	22.61	1.69 %	2.26 %
15°	27.65	50.27	2.77 %	5.03 %
20°	37.51	87.77	3.75 %	8.78 %
25°	46.25	134.02	4.62 %	13.40 %
30°	53.49	187.51	5.35 %	18.75 %
35°	58.90	246.40	5.89 %	24.64 %
40°	62.61	309.01	6.26 %	30.90 %
45°	64.17	373.18	6.42 %	37.32 %
50°	63.52	436.71	6.35 %	43.67 %
55°	61.38	498.09	6.14 %	49.81 %
60°	56.90	554.99	5.69 %	55.50 %
65°	50.44	605.44	5.04 %	60.54 %
70°	43.08	648.52	4.31 %	64.85 %
75°	33.93	682.45	3.39 %	68.24 %
80°	24.31	706.76	2.43 %	70.68 %
85°	16.04	722.80	1.60 %	72.28 %
90°	10.35	733.15	1.03 %	73.31 %
95°	9.52	742.67	0.95 %	74.27 %
100°	10.99	753.66	1.10 %	75.37 %
105°	13.26	766.92	1.33 %	76.69 %
110°	15.81	782.74	1.58 %	78.27 %
115°	18.22	800.95	1.82 %	80.10 %
120°	20.49	821.45	2.05 %	82.14 %
125°	22.32	843.76	2.23 %	84.38 %
130°	23.40	867.17	2.34 %	86.72 %
135°	23.91	891.07	2.39 %	89.11 %
140°	23.55	914.63	2.36 %	91.46 %
145°	22.10	936.73	2.21 %	93.67 %
150°	19.46	956.19	1.95 %	95.62 %
155°	15.88	972.06	1.59 %	97.21 %
160°	12.02	984.08	1.20 %	98.41 %
165°	8.34	992.42	0.83 %	99.24 %
170°	5.00	997.42	0.50 %	99.74 %
175°	2.14	999.56	0.21 %	99.96 %
180°	0.44	1000.00	0.04 %	100.00 %

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Isolux (Floor)

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

