

Luminaire

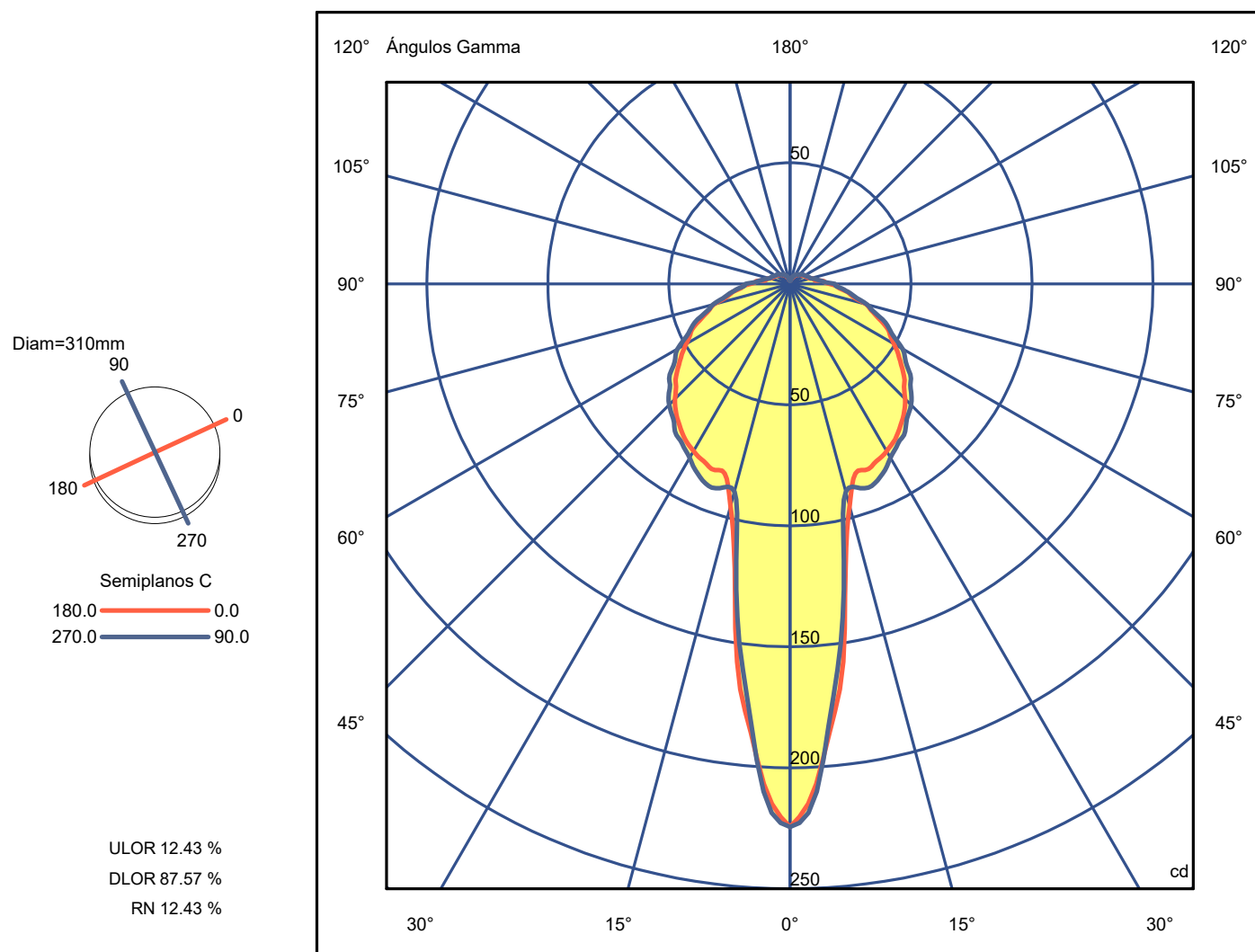
Code 309_NANS_31.02_RED
Name NANS 31.02 - OPTICAL SET -BEIGE

Measurement

Code CL092A21F025GE1
Name NANS 31.02 - OPTICAL SET -BEIGE

Luminaire Flux	391.84 lm	Luminaire Power	9.78 W	Efficacy	40.07 lm/W	Efficiency	100.00%
Sources Flux	391.84 lm	Maximum value	224.34 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical
Round Luminaire		Diam.	310 mm	Height	470 mm		
Round Luminous Area		Diam.	120 mm	Height	0 mm		
Horizontal Luminous Area		0.011310 m2		Emitting area on Plane 180°		0.000000 m2	
Emitting area on Plane 0°		0.000000 m2		Emitting area on Plane 270°		0.000000 m2	
Emitting area on Plane 90°		0.000000 m2		Glare area at 76°		0.002736 m2	
Coordinate system		CG		Symmetry Type		Double Symmetrical	
Date		15-11-2021		Maximum Gamma Angle		180	
Measurement Distance		6.44		Measurement Flux		391.84 lm	
Operator		ASSELUM		Rated Voltage		14.03 V	
Temperature		25.30 °C		Rated Current		0.70 A	
Humidity		34.90 %		Photocell		Prc	
Notes		RM21110903.3					

Line		Code		Luminaire Sources		Flux [lm]	Pow. [W]	Q.ty
		LED		Name		391.84	9.78	1
				(EXTAPOLACION)				
C.I.E.	41 70 89 88 100			D DIN 5040	B31			
F UTE	0.88 G + 0.12 T			B NBN	BZ 5			



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Measurem.

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Luminaire Flux	391.84 lm	Luminaire Power	9.78 W	Efficacy	40.07 lm/W	Efficiency	100.00%
Sources Flux	391.84 lm	Maximum value	224.34 cd	Position	C=0.00 G=0.00	CG Double Symmetrical	

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	224.34	224.34	224.34	224.34	224.34	224.34	224.34
G 2.5	211.40	212.54	215.00	216.88	216.67	215.80	215.06
G 5.0	186.26	190.80	194.99	195.90	191.86	186.14	183.23
G 7.5	163.61	166.74	168.74	167.90	164.42	160.19	155.39
G 10.0	130.96	133.61	137.73	140.38	138.11	133.38	128.13
G 12.5	107.74	111.59	115.39	115.83	112.14	106.40	101.18
G 15.0	95.07	97.90	100.89	101.58	98.29	93.11	88.87
G 17.5	85.88	88.01	90.81	92.34	91.32	89.18	88.00
G 20.0	82.14	84.12	86.86	89.14	90.06	90.06	89.89
G 22.5	83.12	84.66	86.61	88.34	89.34	89.73	89.80
G 25.0	81.93	83.56	85.62	87.30	88.04	88.11	88.02
G 27.5	80.97	82.85	85.15	86.76	86.91	86.26	85.81
G 30.0	79.79	81.35	83.28	84.52	84.35	83.47	82.95
G 32.5	78.41	79.89	81.62	82.65	82.36	81.44	80.90
G 35.0	76.79	77.86	79.20	80.07	79.96	79.36	78.99
G 37.5	74.56	75.64	76.93	77.88	78.13	77.95	77.79
G 40.0	72.48	73.59	75.01	75.91	75.75	75.06	74.64
G 42.5	70.09	71.21	72.65	73.62	73.55	72.95	72.58
G 45.0	67.21	68.20	69.55	70.62	70.95	70.80	70.64
G 47.5	63.91	65.12	66.71	67.95	68.33	68.18	68.01
G 50.0	61.75	62.69	63.89	64.85	65.38	65.31	64.80
G 52.5	58.70	59.91	61.43	62.64	63.09	63.04	62.93
G 55.0	55.57	56.34	57.52	58.53	58.94	58.95	58.87
G 57.5	52.69	53.43	54.56	55.58	56.10	56.24	56.23
G 60.0	49.55	50.49	51.79	52.92	53.52	53.70	53.70
G 62.5	46.77	47.63	48.91	49.91	50.10	49.68	48.99
G 65.0	44.69	45.07	45.82	46.43	46.60	46.28	45.62
G 67.5	41.23	41.59	42.14	42.65	42.96	43.09	43.11
G 70.0	37.55	38.03	38.68	39.11	39.49	39.53	39.10
G 72.5	34.80	35.05	35.46	35.73	35.88	35.77	35.24
G 75.0	32.58	32.25	32.19	32.41	32.86	33.20	32.99
G 77.5	27.95	28.51	29.20	29.64	29.55	29.22	29.02
G 80.0	25.38	25.64	26.03	26.24	26.56	26.65	26.31
G 82.5	23.47	23.23	23.28	23.46	23.60	23.68	23.71
G 85.0	20.42	20.21	20.39	20.75	21.11	21.38	21.49
G 87.5	19.34	19.15	19.15	19.18	19.34	19.31	18.96
G 90.0	16.46	16.46	16.79	17.39	18.04	18.53	18.50
G 92.5	14.51	14.66	14.90	14.97	15.20	15.22	14.95
G 95.0	13.83	13.95	14.03	13.97	13.82	13.53	13.20
G 97.5	10.93	11.26	11.87	12.39	12.47	12.25	11.92
G100.0	10.08	10.38	10.83	11.14	11.23	11.10	10.83
G102.5	9.75	9.91	10.13	10.29	10.32	10.21	10.01
G105.0	8.81	9.05	9.39	9.59	9.48	9.18	8.90
G107.5	8.10	8.35	8.71	8.96	8.92	8.71	8.51
G110.0	7.85	8.09	8.42	8.64	8.60	8.41	8.24
G112.5	7.47	7.73	8.08	8.32	8.27	8.06	7.87
G115.0	7.16	7.44	7.82	8.08	8.02	7.81	7.62
G117.5	7.04	7.28	7.60	7.80	7.69	7.48	7.30
G120.0	6.70	7.05	7.38	7.54	7.44	7.23	7.05
G122.5	6.44	6.77	7.08	7.23	7.16	6.96	6.80
G125.0	6.28	6.61	6.90	7.04	6.95	6.73	6.56
G127.5	6.00	6.31	6.60	6.75	6.63	6.39	6.26
G130.0	5.84	6.11	6.36	6.48	6.39	6.19	6.09
G132.5	5.62	5.86	6.09	6.21	6.13	5.96	5.86
G135.0	5.40	5.62	5.84	5.96	5.88	5.71	5.61
G137.5	5.23	5.38	5.56	5.66	5.60	5.47	5.39
G140.0	5.03	5.13	5.27	5.35	5.30	5.20	5.14
G142.5	4.76	4.91	5.05	5.11	5.06	4.95	4.89
G145.0	4.54	4.63	4.75	4.81	4.80	4.73	4.66
G147.5	4.27	4.36	4.48	4.55	4.56	4.53	4.51
G150.0	3.92	4.04	4.17	4.26	4.26	4.21	4.18
G152.5	3.70	3.80	3.90	3.96	3.99	3.99	3.99
G155.0	3.41	3.49	3.58	3.64	3.68	3.70	3.70
G157.5	3.03	3.12	3.23	3.30	3.35	3.38	3.38
G160.0	2.79	2.89	3.00	3.07	3.11	3.12	3.12
G162.5	2.53	2.56	2.62	2.69	2.75	2.80	2.81
G165.0	2.26	2.32	2.37	2.41	2.44	2.45	2.45
G167.5	2.05	2.11	2.16	2.19	2.19	2.17	2.14
G170.0	1.80	1.86	1.92	1.95	1.92	1.87	1.84
G172.5	1.64	1.69	1.72	1.73	1.69	1.64	1.62
G175.0	1.41	1.49	1.57	1.59	1.53	1.44	1.39
G177.5	1.49	1.56	1.63	1.62	1.52	1.38	1.28
G180.0	1.43	1.43	1.43	1.43	1.43	1.43	1.43

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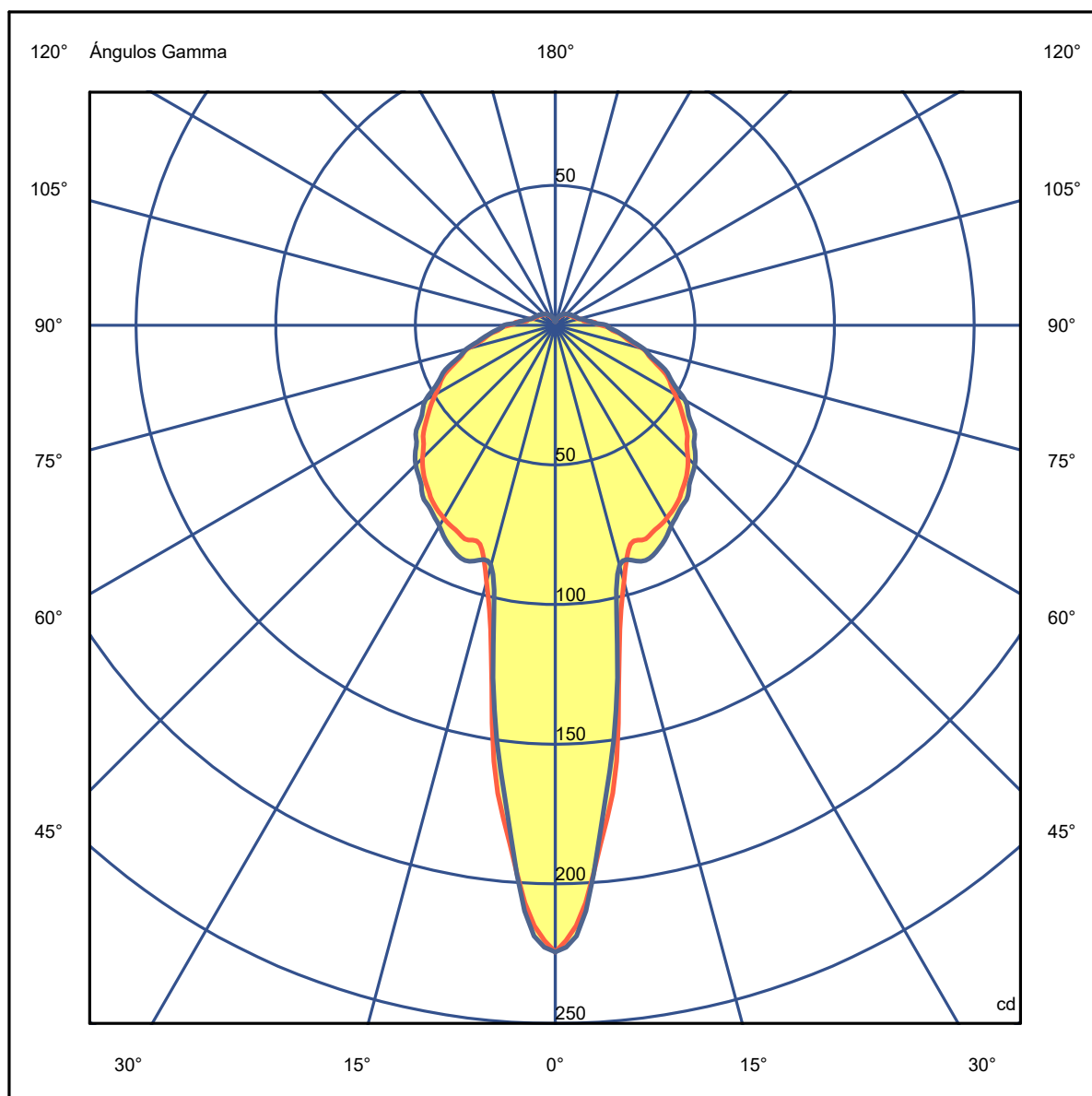
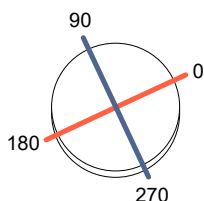
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Sources Flux	391.84 lm	Maximum value	224.34 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=310mm

Semiplanos C

180.0 — 0.0
270.0 — 90.0



Luminaire

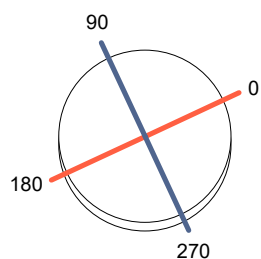
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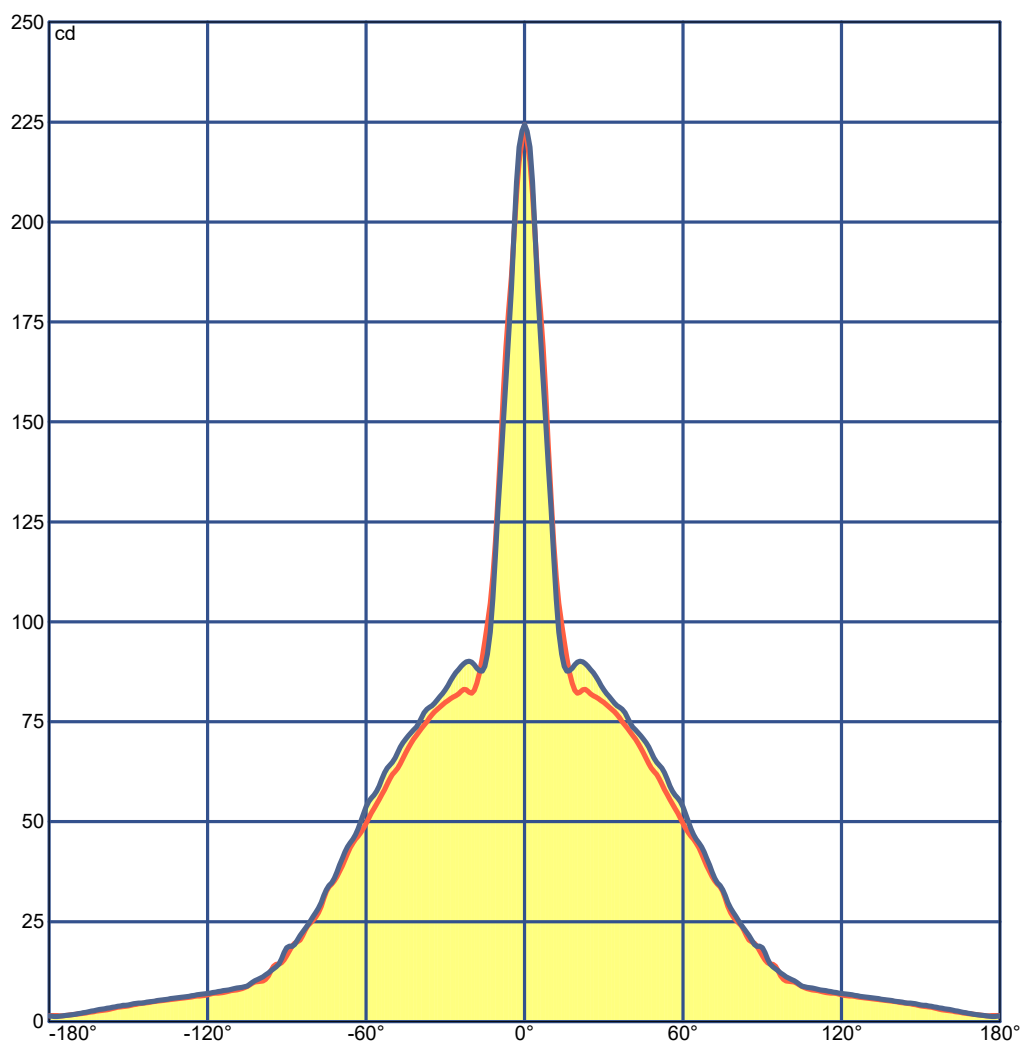
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Diam=310mm



Semiplanos C

180.0 — 0.0
270.0 — 90.0



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Sources Flux	391.84 lm	Maximum value	224.34 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	19.3	20.5	19.7	21.0	21.5	19.5	20.8	20.0	21.2	21.7
x=2H y=3H	21.4	22.5	21.8	23.0	23.5	21.6	22.7	22.1	23.2	23.7
x=2H y=4H	22.4	23.5	22.9	24.0	24.5	22.6	23.7	23.2	24.2	24.8
x=2H y=6H	23.4	24.4	24.0	25.0	25.5	23.7	24.7	24.2	25.2	25.8
x=2H y=8H	24.0	25.0	24.6	25.5	26.1	24.2	25.2	24.8	25.7	26.3
x=2H y=12H	24.7	25.6	25.2	26.1	26.7	24.9	25.8	25.4	26.3	26.9
x=4H y=2H	20.1	21.2	20.6	21.7	22.2	20.3	21.4	20.8	21.9	22.4
x=4H y=3H	22.4	23.3	23.0	23.8	24.4	22.6	23.5	23.1	24.0	24.6
x=4H y=4H	23.6	24.4	24.2	25.0	25.6	23.8	24.6	24.4	25.2	25.8
x=4H y=6H	24.8	25.6	25.4	26.1	26.8	25.0	25.8	25.6	26.3	27.0
x=4H y=8H	25.5	26.2	26.1	26.8	27.4	25.7	26.3	26.3	27.0	27.6
x=4H y=12H	26.2	26.8	26.9	27.5	28.2	26.4	27.1	27.1	27.7	28.4
x=8H y=4H	24.1	24.8	24.7	25.4	26.1	24.3	24.9	24.9	25.5	26.2
x=8H y=6H	25.6	26.2	26.2	26.8	27.5	25.8	26.3	26.4	27.0	27.7
x=8H y=8H	26.4	26.9	27.1	27.6	28.3	26.6	27.1	27.2	27.7	28.5
x=8H y=12H	27.4	27.8	28.0	28.5	29.2	27.6	28.0	28.2	28.7	29.4
x=12H y=4H	25.0	25.6	25.6	26.2	26.9	25.1	25.7	25.7	26.3	27.0
x=12H y=6H	26.3	26.8	26.9	27.4	28.2	26.4	26.9	27.0	27.5	28.3
x=12H y=8H	27.1	27.5	27.8	28.2	29.0	27.2	27.6	27.9	28.3	29.1

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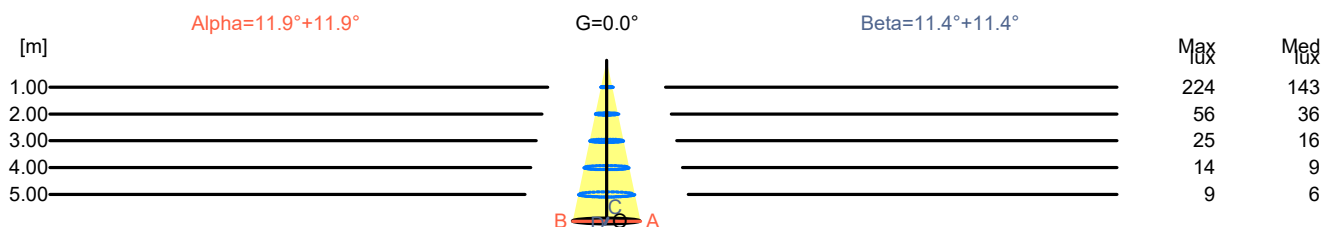
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Sources Flux	391.84 lm	Maximum value	224.34 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

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	0.21	0.42	0.63	0.84	1.05	OC	0.20	0.40	0.60	0.81	1.01
OB	0.21	0.42	0.63	0.84	1.05	OD	0.20	0.40	0.60	0.81	1.01

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	224.34	186.26	95.07	81.93	76.79	67.21	55.57	44.69	32.58	20.42
OB	224.34	186.26	95.07	81.93	76.79	67.21	55.57	44.69	32.58	20.42
OC	224.34	183.23	88.87	88.02	78.99	70.64	58.87	45.62	32.99	21.49
OD	224.34	183.23	88.87	88.02	78.99	70.64	58.87	45.62	32.99	21.49



H[m]	D[m]	Max lux	Med lux	Alpha=11.9°+11.9°	G=0.0
1.00	0.42	224	143		
2.00	0.84	56	36		
3.00	1.26	25	16		
4.00	1.69	14	9		
5.00	2.11	9	6		

H[m]	D[m]	Max lux	Med lux	Beta=11.4°+11.4°	G=0.0
1.00	0.40	224	143		
2.00	0.81	56	36		
3.00	1.21	25	16		
4.00	1.61	14	9		
5.00	2.02	9	6		

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Flujo Total=391.84 Flujo Luminaria=391.84

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	0.27	0.34	0.41	0.48	0.53	0.62	0.67	0.72	0.77	0.81	0.89	0.94
RC	6	6	6	6	6	6	6	6	7	7	7	7

Flujo Zonal por 1000 Lúmenes

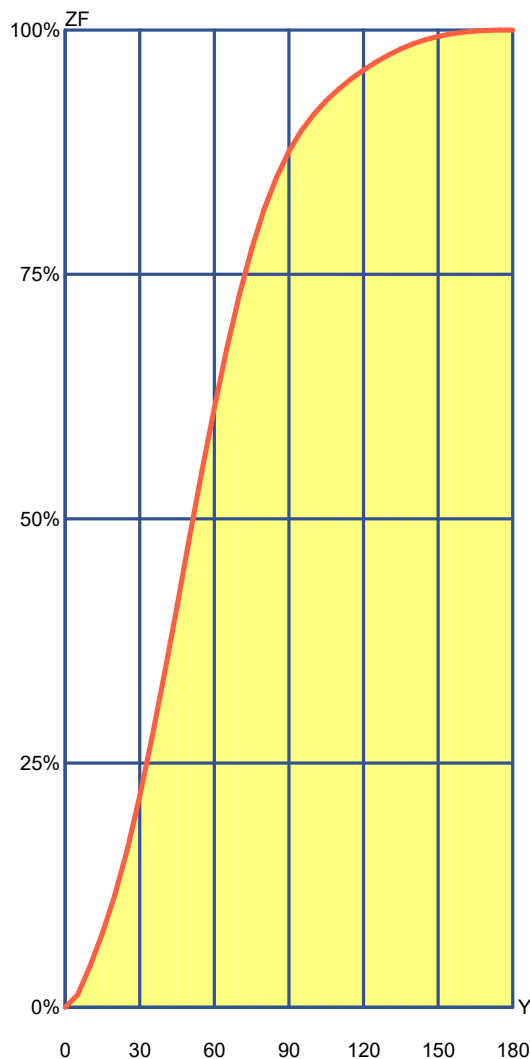
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	42	115	216	343	480	613	729	816	876	914	939	959	975	986	994	998	1000	1000

Códigos de Flujo C.I.E.

41 70 89 88 100

C.I.E. 6/6/6/6/6/6/6/7/7/7
D DIN 5040 B31
F UTE 0.88 G + 0.12 T
B NBN BZ 5
RN 12.42786 %
BLF 1.0

LOR 100.00000 %
ULOR 12.42786 %
DLOR 87.57214 %
UFF 12.42786 %
DFF 87.57214 %
FFR 14.19156 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	12.64	12.64	1.26 %	1.26 %
10°	29.50	42.13	2.95 %	4.21 %
15°	34.13	76.27	3.41 %	7.63 %
20°	38.27	114.53	3.83 %	11.45 %
25°	46.70	161.23	4.67 %	16.12 %
30°	54.84	216.07	5.48 %	21.61 %
35°	60.98	277.05	6.10 %	27.71 %
40°	65.57	342.62	6.56 %	34.26 %
45°	68.43	411.05	6.84 %	41.11 %
50°	69.11	480.17	6.91 %	48.02 %
55°	68.17	548.33	6.82 %	54.83 %
60°	64.98	613.31	6.50 %	61.33 %
65°	60.86	674.17	6.09 %	67.42 %
70°	54.78	728.96	5.48 %	72.90 %
75°	47.50	776.45	4.75 %	77.65 %
80°	39.93	816.38	3.99 %	81.64 %
85°	32.55	848.93	3.26 %	84.89 %
90°	26.79	875.72	2.68 %	87.57 %
95°	21.37	897.09	2.14 %	89.71 %
100°	16.84	913.92	1.68 %	91.39 %
105°	13.78	927.71	1.38 %	92.77 %
110°	11.66	939.37	1.17 %	93.94 %
115°	10.40	949.76	1.04 %	94.98 %
120°	9.31	959.08	0.93 %	95.91 %
125°	8.25	967.33	0.83 %	96.73 %
130°	7.21	974.53	0.72 %	97.45 %
135°	6.19	980.72	0.62 %	98.07 %
140°	5.19	985.92	0.52 %	98.59 %
145°	4.24	990.16	0.42 %	99.02 %
150°	3.36	993.52	0.34 %	99.35 %
155°	2.52	996.04	0.25 %	99.60 %
160°	1.77	997.80	0.18 %	99.78 %
165°	1.14	998.94	0.11 %	99.89 %
170°	0.65	999.60	0.07 %	99.96 %
175°	0.31	999.91	0.03 %	99.99 %
180°	0.09	1000.00	0.01 %	100.00 %

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Isolux (Floor)

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

