

Luminaire

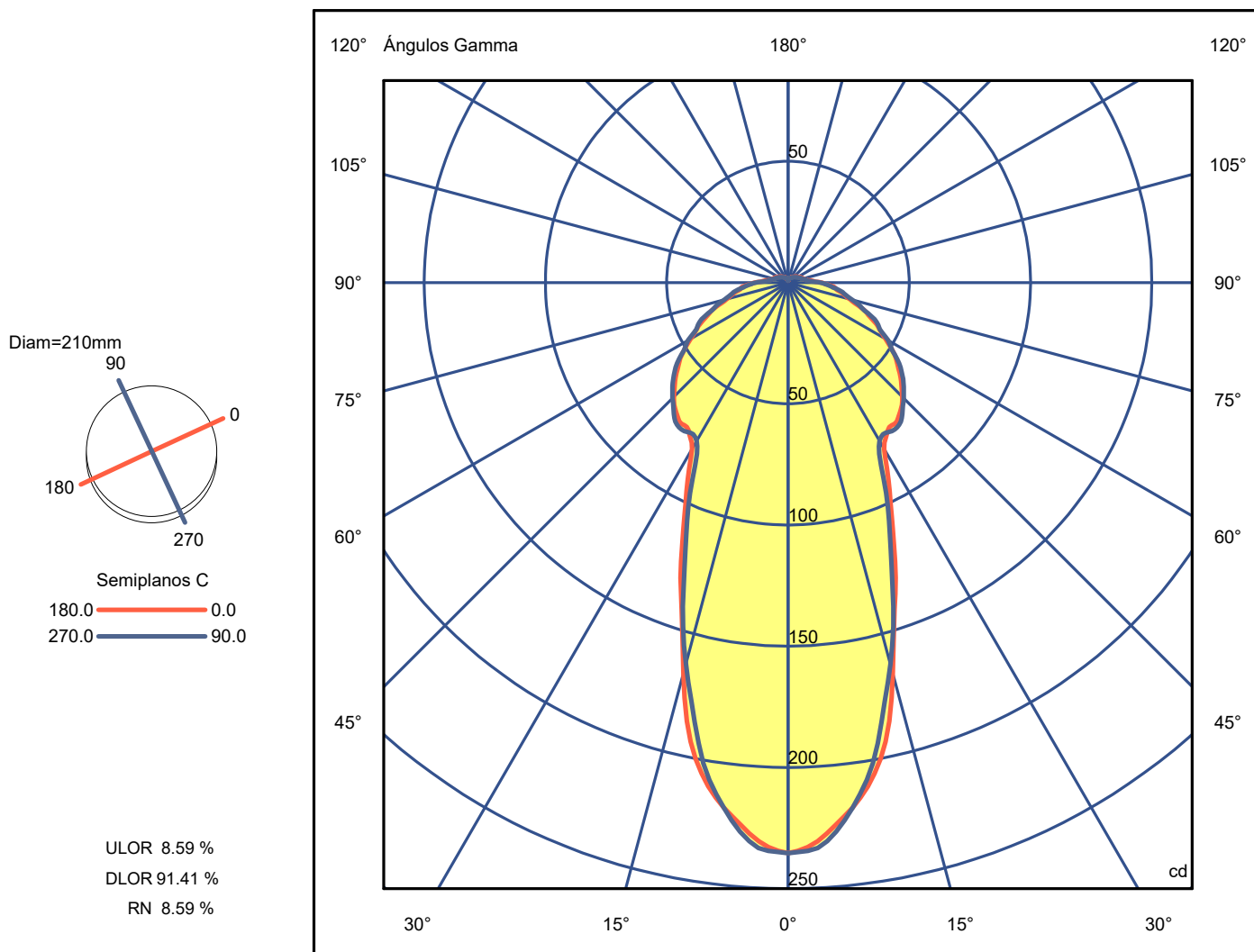
Code 309_NANS_21_RED
Name NANS 21 - OPTICAL SET -BEIGE

Measurment

Code CL092A21F023GE1
Name NANS 21 - OPTICAL SET -BEIGE

Luminaire Flux	385.91 lm	Luminaire Power	9.84 W	Efficacy	39.22 lm/W	Efficiency	100.00%
Sources Flux	385.91 lm	Maximum value	235.32 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical
Round Luminaire		Diam.	210 mm	Height	250 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		12-11-2021		Maximum Gamma Angle		180	
Measurement Distance		6.44		Measurement Flux		385.91 lm	
Operator		Asselum T2		Rated Voltage		14.13 V	
Temperature		25.20 °C		Rated Current		0.70 A	
Humidity		50.10 %		Photocell		Prc	
Notes		RM21110903.1					

Line		Code		Luminaire Sources		Flux [lm]	Pow. [W]	Q.ty
		LED		Name (EXTAPOLACION)		385.91	9.84	1
C.I.E.	47 74 91 91 100			D DIN 5040		A31		
F UTE	0.91 E + 0.09 T			B NBN		BZ 4 / 1 / BZ 5		



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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	235.32	235.32	235.32	235.32	235.32	235.32	235.32
G 2.5	232.00	231.87	233.14	232.32	233.82	231.76	234.36
G 5.0	224.51	223.64	226.14	224.50	227.02	223.51	227.32
G 7.5	216.36	213.31	216.24	214.50	215.86	213.69	215.64
G 10.0	205.51	201.62	200.65	202.88	200.56	201.02	201.23
G 12.5	189.75	189.00	183.96	187.59	184.46	182.03	181.14
G 15.0	166.83	167.19	164.25	166.39	163.03	164.34	162.87
G 17.5	145.33	146.32	145.25	145.18	141.07	146.01	144.38
G 20.0	129.63	130.76	126.34	129.95	124.97	127.68	124.75
G 22.5	113.36	115.85	110.70	114.52	109.59	112.77	109.28
G 25.0	99.94	102.40	97.06	101.18	95.92	100.18	95.73
G 27.5	89.06	91.84	85.93	91.31	82.49	87.79	81.97
G 30.0	79.14	82.75	78.15	85.78	75.73	82.04	75.38
G 32.5	75.23	79.02	76.10	77.16	73.98	77.03	73.72
G 35.0	72.73	76.08	75.93	74.74	74.74	74.55	74.70
G 37.5	72.92	74.72	75.53	74.25	73.82	73.68	74.59
G 40.0	71.20	73.91	73.98	73.25	72.78	72.69	72.96
G 42.5	69.31	71.93	72.62	72.12	70.11	70.43	70.00
G 45.0	66.63	68.56	69.41	69.15	68.10	67.95	67.38
G 47.5	63.42	65.71	66.45	66.10	64.57	64.87	64.66
G 50.0	60.58	63.10	63.14	62.83	62.10	61.91	61.85
G 52.5	57.14	59.67	60.10	60.00	58.52	58.55	58.71
G 55.0	54.29	56.46	56.15	56.87	55.53	55.35	54.93
G 57.5	50.43	52.90	52.32	52.69	50.48	51.38	50.48
G 60.0	46.38	48.39	48.14	48.03	47.45	48.38	47.61
G 62.5	42.88	44.57	44.91	45.26	43.36	44.68	43.05
G 65.0	40.08	41.45	41.57	41.99	40.78	40.84	40.96
G 67.5	36.23	38.21	38.75	38.39	37.92	37.50	37.93
G 70.0	33.62	34.81	34.50	35.70	34.32	35.00	33.56
G 72.5	29.51	31.68	31.51	32.15	30.67	30.85	30.69
G 75.0	26.28	28.19	27.41	28.37	27.01	28.61	27.38
G 77.5	23.99	25.81	24.81	26.05	23.68	26.21	24.53
G 80.0	21.97	23.00	23.01	22.64	22.70	22.97	22.83
G 82.5	19.81	21.02	21.45	20.68	21.15	20.41	20.25
G 85.0	18.86	19.05	19.03	18.96	18.50	18.35	17.74
G 87.5	15.83	16.82	16.72	16.41	15.46	15.80	15.70
G 90.0	13.86	13.84	13.36	13.64	13.13	13.78	13.34
G 92.5	10.89	11.93	11.63	12.48	11.20	11.45	10.46
G 95.0	9.80	10.27	9.69	11.64	9.47	10.31	8.67
G 97.5	7.65	8.62	9.05	9.57	8.78	8.96	7.36
G100.0	7.46	7.97	8.01	7.75	7.99	7.60	7.34
G102.5	6.60	7.50	7.32	7.62	7.21	7.04	6.72
G105.0	6.51	6.55	6.65	7.10	6.58	6.47	6.11
G107.5	6.01	6.07	6.22	6.49	6.21	5.95	5.63
G110.0	5.88	5.94	5.88	5.91	5.79	5.45	5.63
G112.5	5.57	5.74	5.68	5.81	5.53	5.24	5.23
G115.0	5.38	5.33	5.36	5.46	5.23	4.83	4.87
G117.5	4.98	5.01	5.08	5.28	4.95	4.59	4.67
G120.0	4.77	4.66	4.76	4.92	4.66	4.32	4.32
G122.5	4.50	4.38	4.46	4.62	4.45	4.10	4.14
G125.0	4.26	4.24	4.29	4.43	4.17	3.86	3.98
G127.5	4.11	4.08	4.05	4.15	3.91	3.67	3.72
G130.0	3.83	3.84	3.81	3.95	3.68	3.44	3.53
G132.5	3.73	3.59	3.57	3.66	3.39	3.28	3.44
G135.0	3.46	3.37	3.37	3.38	3.19	3.19	3.21
G137.5	3.32	3.19	3.15	3.24	2.99	2.97	3.04
G140.0	3.12	3.07	2.96	3.05	2.83	2.87	2.89
G142.5	2.94	2.93	2.79	2.91	2.73	2.71	2.78
G145.0	2.77	2.82	2.67	2.71	2.57	2.60	2.65
G147.5	2.66	2.67	2.56	2.49	2.42	2.51	2.45
G150.0	2.43	2.56	2.41	2.34	2.29	2.36	2.37
G152.5	2.34	2.37	2.23	2.23	2.20	2.27	2.26
G155.0	2.24	2.26	2.16	2.11	2.10	2.18	2.18
G157.5	2.12	2.14	2.02	2.02	2.00	2.08	2.05
G160.0	2.00	2.04	1.90	1.93	1.86	1.98	1.94
G162.5	1.86	1.89	1.80	1.81	1.76	1.87	1.88
G165.0	1.67	1.73	1.67	1.66	1.63	1.74	1.77
G167.5	1.52	1.59	1.51	1.55	1.53	1.60	1.62
G170.0	1.33	1.43	1.38	1.38	1.38	1.48	1.47
G172.5	1.18	1.26	1.21	1.20	1.22	1.29	1.27
G175.0	0.95	1.07	0.98	1.02	0.96	1.08	1.00
G177.5	0.81	0.96	0.88	0.93	0.85	0.96	0.86
G180.0	0.94	0.94	0.94	0.94	0.94	0.94	0.94

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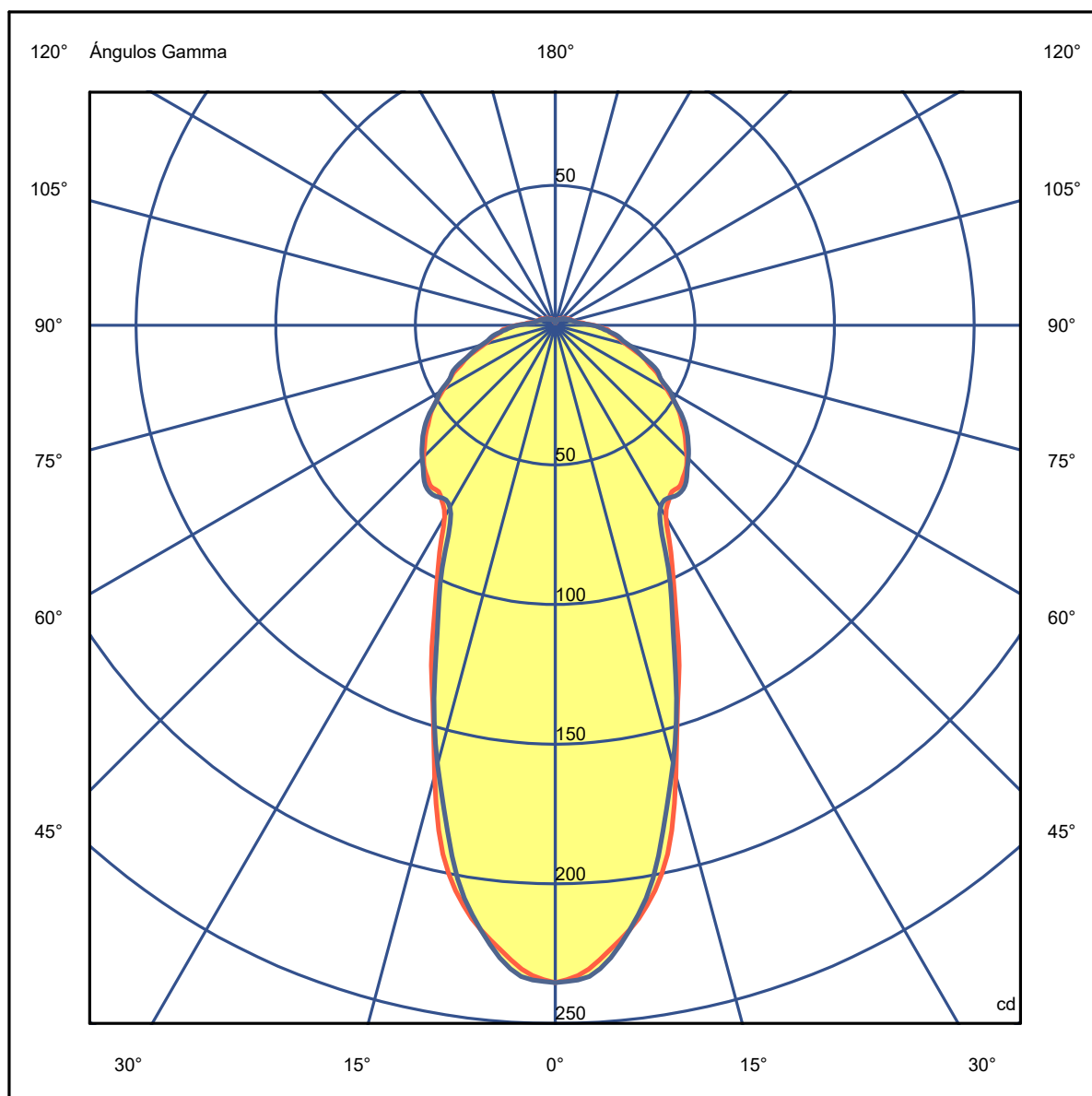
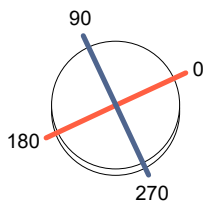
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Sources Flux	385.91 lm	Maximum value	235.32 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=210mm

Semiplanos C

180.0 ——— 0.0
270.0 ——— 90.0



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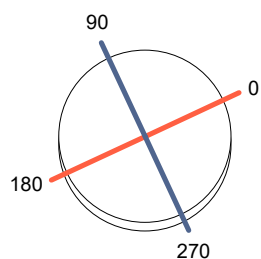
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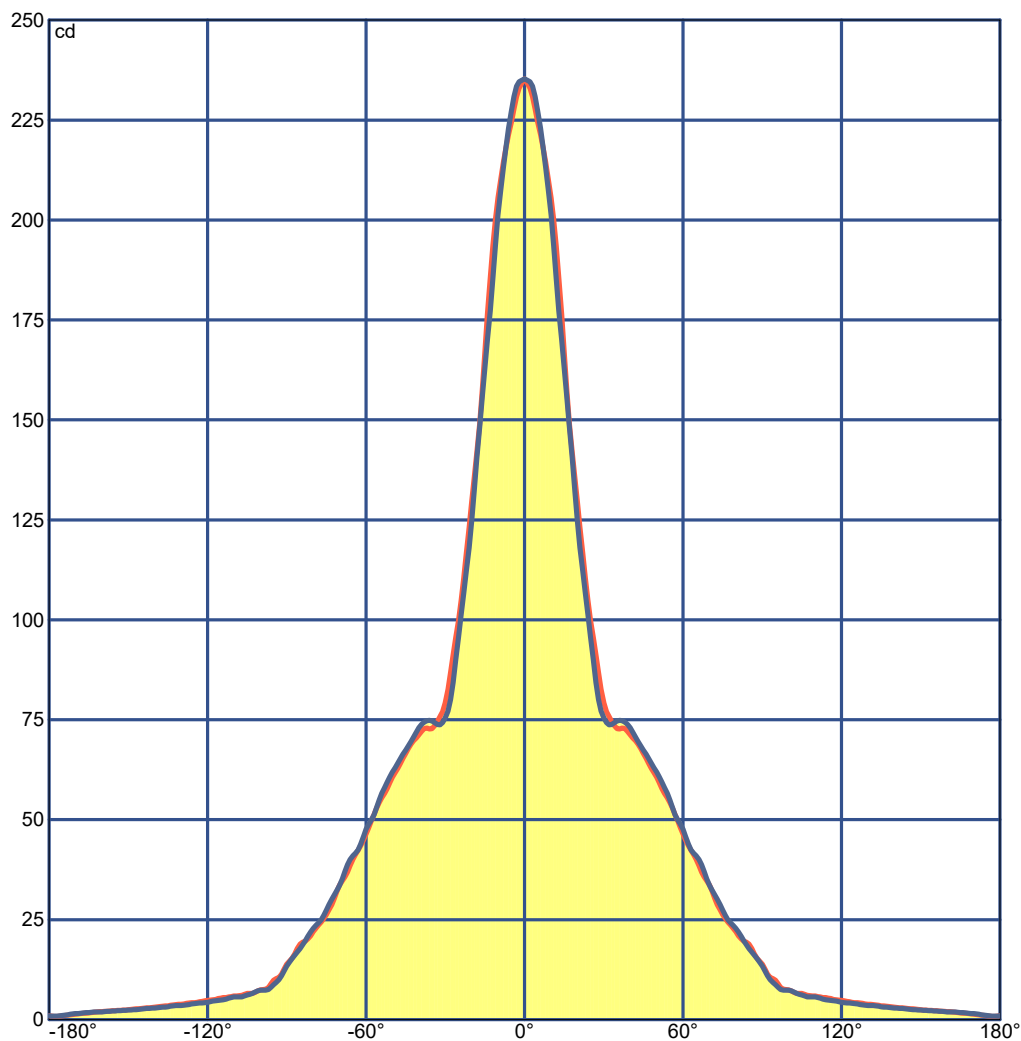
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Sources Flux	385.91 lm	Maximum value	235.32 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

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	19.2	20.4	19.6	20.8	21.2	19.1	20.3	19.5	20.7	21.1
x=2H y=3H	21.1	22.2	21.5	22.6	23.0	21.0	22.1	21.5	22.5	23.0
x=2H y=4H	22.0	23.0	22.5	23.5	24.0	22.0	23.0	22.5	23.5	23.9
x=2H y=6H	23.0	23.9	23.4	24.4	24.9	23.0	24.0	23.5	24.4	24.9
x=2H y=8H	23.5	24.4	24.0	24.9	25.4	23.5	24.5	24.0	24.9	25.4
x=2H y=12H	24.1	25.0	24.6	25.5	26.0	24.1	25.0	24.6	25.5	26.0
x=4H y=2H	19.9	21.0	20.4	21.4	21.9	19.9	20.9	20.3	21.4	21.8
x=4H y=3H	22.1	23.0	22.6	23.4	24.0	22.0	22.9	22.5	23.4	23.9
x=4H y=4H	23.1	23.9	23.7	24.4	25.0	23.1	23.9	23.6	24.4	25.0
x=4H y=6H	24.3	25.0	24.9	25.5	26.1	24.3	25.0	24.9	25.6	26.1
x=4H y=8H	24.9	25.6	25.5	26.1	26.8	24.9	25.6	25.5	26.2	26.8
x=4H y=12H	25.7	26.3	26.3	26.9	27.5	25.7	26.3	26.2	26.8	27.4
x=8H y=4H	23.6	24.3	24.2	24.8	25.4	23.6	24.2	24.1	24.8	25.4
x=8H y=6H	25.0	25.6	25.6	26.2	26.8	25.0	25.6	25.6	26.1	26.8
x=8H y=8H	25.9	26.4	26.5	26.9	27.6	25.8	26.3	26.5	26.9	27.6
x=8H y=12H	26.9	27.3	27.5	27.9	28.6	26.8	27.2	27.4	27.8	28.5
x=12H y=4H	24.4	25.0	25.0	25.6	26.2	24.4	25.0	25.0	25.6	26.2
x=12H y=6H	25.7	26.2	26.3	26.8	27.4	25.7	26.2	26.3	26.8	27.4
x=12H y=8H	26.5	27.0	27.2	27.6	28.3	26.5	27.0	27.1	27.6	28.2

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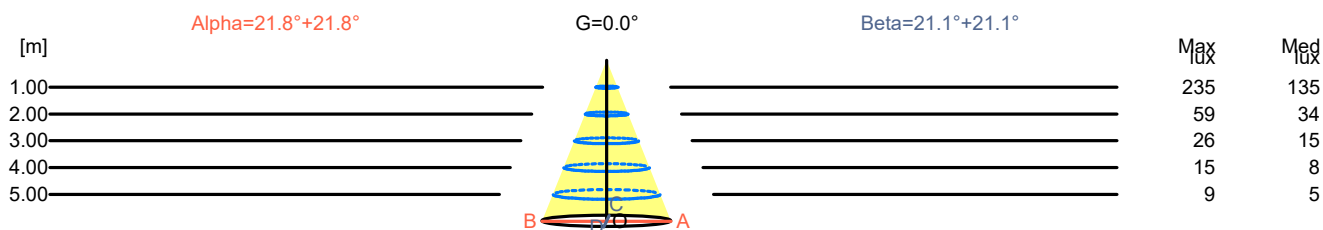
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Width at 50.00 % of Max Intensity

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	0.40	0.80	1.20	1.60	2.00	OC	0.39	0.77	1.16	1.54	1.93
OB	0.40	0.80	1.20	1.60	2.00	OD	0.39	0.77	1.16	1.54	1.93

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	235.32	224.51	166.83	99.94	72.73	66.63	54.29	40.08	26.28	18.86
OB	235.32	224.51	166.83	99.94	72.73	66.63	54.29	40.08	26.28	18.86
OC	235.32	227.32	162.87	95.73	74.70	67.38	54.93	40.96	27.38	17.74
OD	235.32	227.32	162.87	95.73	74.70	67.38	54.93	40.96	27.38	17.74



H[m]	D[m]	Max lux	Med lux	Alpha=21.8°+21.8°	G=0.0
1.00	0.80	235	135		
2.00	1.60	59	34		
3.00	2.40	26	15		
4.00	3.20	15	8		
5.00	4.01	9	5		

H[m]	D[m]	Max lux	Med lux	Beta=21.1°+21.1°	G=0.0
1.00	0.77	235	135		
2.00	1.54	59	34		
3.00	2.31	26	15		
4.00	3.08	15	8		
5.00	3.85	9	5		

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Flujo Total=385.91 Flujo Luminaria=385.91

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	0.31	0.39	0.46	0.52	0.57	0.65	0.71	0.75	0.80	0.83	0.90	0.95
RC	5	5	5	5	5	6	6	6	6	6	6	6

Flujo Zonal por 1000 Lúmenes

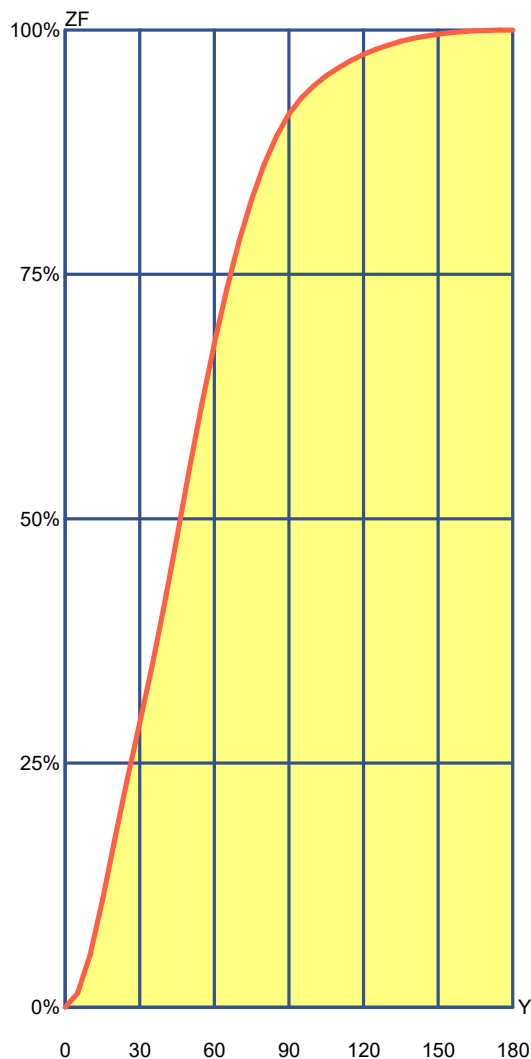
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	54	172	291	414	551	679	785	862	914	943	962	975	985	991	996	998	1000	1000

Códigos de Flujo C.I.E.

47 74 91 91 100

C.I.E. 5/5/5/5/5/6/6/6/6/6/6
D DIN 5040 A31
F UTE 0.91 E + 0.09 T
B NBN BZ 4 / 1 / BZ 5
RN 8.58799 %
BLF 1.0

LOR 100.00000 %
ULOR 8.58799 %
DLOR 91.41201 %
UFF 8.58799 %
DFF 91.41201 %
FFR 9.39481 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	14.26	14.26	1.43 %	1.43 %
10°	39.53	53.79	3.95 %	5.38 %
15°	56.41	110.19	5.64 %	11.02 %
20°	61.91	172.10	6.19 %	17.21 %
25°	61.19	233.30	6.12 %	23.33 %
30°	57.97	291.27	5.80 %	29.13 %
35°	58.70	349.96	5.87 %	35.00 %
40°	64.12	414.08	6.41 %	41.41 %
45°	68.05	482.13	6.80 %	48.21 %
50°	68.38	550.51	6.84 %	55.05 %
55°	66.58	617.10	6.66 %	61.71 %
60°	62.00	679.10	6.20 %	67.91 %
65°	55.94	735.03	5.59 %	73.50 %
70°	49.78	784.81	4.98 %	78.48 %
75°	42.22	827.03	4.22 %	82.70 %
80°	34.94	861.97	3.49 %	86.20 %
85°	29.24	891.21	2.92 %	89.12 %
90°	22.91	914.12	2.29 %	91.41 %
95°	16.60	930.72	1.66 %	93.07 %
100°	12.46	943.18	1.25 %	94.32 %
105°	10.00	953.18	1.00 %	95.32 %
110°	8.35	961.53	0.84 %	96.15 %
115°	7.27	968.80	0.73 %	96.88 %
120°	6.23	975.03	0.62 %	97.50 %
125°	5.27	980.30	0.53 %	98.03 %
130°	4.47	984.77	0.45 %	98.48 %
135°	3.68	988.46	0.37 %	98.85 %
140°	3.00	991.46	0.30 %	99.15 %
145°	2.44	993.90	0.24 %	99.39 %
150°	1.94	995.84	0.19 %	99.58 %
155°	1.49	997.33	0.15 %	99.73 %
160°	1.12	998.45	0.11 %	99.85 %
165°	0.78	999.23	0.08 %	99.92 %
170°	0.48	999.71	0.05 %	99.97 %
175°	0.23	999.94	0.02 %	99.99 %
180°	0.06	1000.00	0.01 %	100.00 %

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Isolux (Floor)

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

