

Luminaire

Code 309_NANS_31_BEIGE
Name NANS 31 - OPTICAL SET -BEIGE

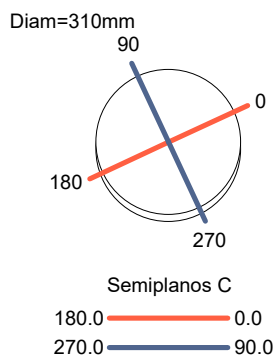
Measurem.

Code CL092A21F024G
Name NANS 31 - OPTICAL SET -BEIGE

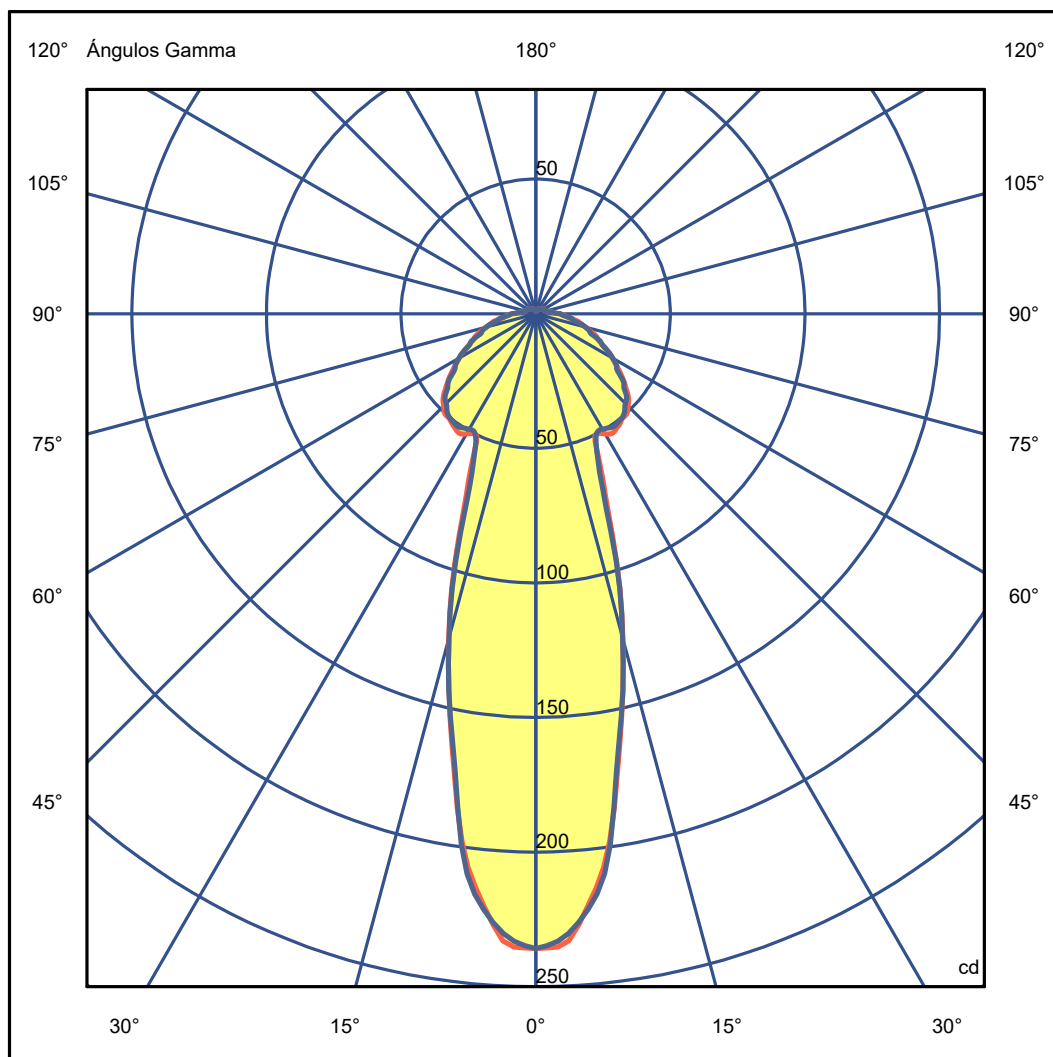
Luminaire Flux	265.01 lm	Luminaire Power	9.82 W	Efficacy	27.00 lm/W	Efficiency	100.00%
Sources Flux	265.01 lm	Maximum value	235.79 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical
Round Luminaire		Diam.	310 mm	Height	310 mm		
Round Luminous Area		Diam.	120 mm	Height	0 mm		
Horizontal Luminous Area		0.011310 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		265.01 lm	
Operator		ASSELUM		Rated Voltage		14.05 V	
Temperature		24.50 °C		Rated Current		0.70 A	
Humidity		35.50 %		Photocell		Prc	
Notes		RM21110903.2					

Luminaire Sources

Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
	SPMWH1228FD7WAWMSESAMSUNGMP MP2835	LM281B	265.01	9.82	1
C.I.E.	49 76 92 92 100	D DIN 5040	A31		
F UTE	0.92 E + 0.08 T	B NBN	BZ 4 / 1.25 / BZ 5		



ULOR 8.50 %
DLOR 91.50 %
RN 8.50 %



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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	235.79	235.79	235.79	235.79	235.79	235.79	235.79
G 2.5	235.26	234.31	233.42	232.58	231.95	231.67	232.05
G 5.0	220.88	222.84	224.20	224.20	223.02	221.68	222.17
G 7.5	202.72	204.48	205.10	204.08	204.26	204.52	204.65
G 10.0	174.17	175.45	177.19	177.76	175.22	172.08	172.41
G 12.5	148.23	149.07	150.24	150.81	150.18	149.04	148.44
G 15.0	125.14	126.27	126.54	125.15	124.89	124.63	124.51
G 17.5	102.29	101.27	100.42	100.11	100.50	101.17	101.52
G 20.0	78.81	79.78	80.19	79.77	78.45	76.96	76.25
G 22.5	63.98	65.14	64.99	63.37	62.31	61.39	61.00
G 25.0	52.07	52.43	53.07	53.45	53.65	53.40	52.76
G 27.5	50.07	50.71	51.36	51.54	50.88	50.06	49.46
G 30.0	51.47	51.90	52.16	52.01	51.13	50.11	49.44
G 32.5	52.67	52.62	52.40	51.99	51.25	50.54	50.23
G 35.0	52.10	52.09	51.97	51.77	51.42	51.11	50.98
G 37.5	51.29	51.51	51.68	51.61	51.19	50.69	50.44
G 40.0	50.39	50.52	50.65	50.65	50.44	50.18	50.05
G 42.5	50.12	49.98	49.74	49.52	49.17	48.89	48.81
G 45.0	48.45	48.26	47.94	47.59	47.32	47.10	47.02
G 47.5	46.74	46.51	46.14	45.84	45.75	45.79	45.83
G 50.0	43.97	44.06	43.90	43.59	43.20	42.86	42.72
G 52.5	41.18	41.11	40.90	40.73	40.74	40.85	40.92
G 55.0	38.36	38.46	38.60	38.49	38.03	37.46	36.97
G 57.5	35.29	35.21	35.17	35.21	35.33	35.48	35.55
G 60.0	32.92	32.63	32.39	32.27	32.51	32.83	32.99
G 62.5	30.36	30.43	30.57	30.63	30.58	30.45	30.24
G 65.0	27.49	27.60	27.74	27.75	27.55	27.29	27.16
G 67.5	25.06	24.99	24.84	24.66	24.98	25.39	25.59
G 70.0	23.70	23.52	23.33	23.12	22.68	22.25	21.87
G 72.5	21.21	20.78	20.32	20.11	20.32	20.71	20.91
G 75.0	19.32	18.30	17.28	16.87	17.43	18.39	18.89
G 77.5	17.13	16.61	15.97	15.68	16.07	16.72	17.07
G 80.0	15.82	15.31	14.62	14.12	13.94	14.01	14.08
G 82.5	12.43	11.81	11.31	11.35	12.16	13.20	13.71
G 85.0	11.51	11.07	10.57	10.34	10.59	11.05	11.29
G 87.5	10.42	10.09	9.74	9.51	9.51	9.63	9.70
G 90.0	8.86	8.43	8.05	7.87	8.30	8.90	9.21
G 92.5	6.50	6.53	6.58	6.71	6.93	7.15	7.25
G 95.0	6.27	6.07	5.81	5.71	5.90	6.20	6.36
G 97.5	5.96	6.02	6.04	5.95	5.69	5.39	5.27
G100.0	4.51	4.57	4.69	4.83	4.96	5.04	5.07
G102.5	4.06	4.06	4.10	4.19	4.30	4.40	4.42
G105.0	4.08	4.02	3.98	3.96	3.99	4.03	4.06
G107.5	3.81	3.83	3.86	3.88	3.88	3.88	3.88
G110.0	3.74	3.76	3.81	3.84	3.83	3.80	3.78
G112.5	3.55	3.59	3.65	3.70	3.71	3.70	3.68
G115.0	3.55	3.55	3.56	3.57	3.59	3.59	3.59
G117.5	3.53	3.52	3.51	3.49	3.48	3.48	3.48
G120.0	3.38	3.34	3.31	3.31	3.33	3.36	3.37
G122.5	3.32	3.32	3.32	3.31	3.28	3.26	3.24
G125.0	3.27	3.25	3.23	3.21	3.21	3.22	3.22
G127.5	3.14	3.11	3.09	3.07	3.05	3.02	3.00
G130.0	3.03	2.98	2.95	2.93	2.93	2.95	2.95
G132.5	2.94	2.90	2.87	2.84	2.82	2.80	2.79
G135.0	2.83	2.78	2.72	2.68	2.67	2.69	2.70
G137.5	2.68	2.64	2.61	2.58	2.56	2.55	2.54
G140.0	2.53	2.52	2.50	2.49	2.46	2.42	2.41
G142.5	2.39	2.38	2.37	2.36	2.35	2.34	2.33
G145.0	2.29	2.31	2.32	2.30	2.24	2.17	2.13
G147.5	2.21	2.18	2.16	2.13	2.11	2.09	2.08
G150.0	2.01	2.03	2.05	2.05	2.02	1.98	1.96
G152.5	1.91	1.94	1.96	1.96	1.91	1.86	1.84
G155.0	1.80	1.83	1.84	1.83	1.81	1.78	1.76
G157.5	1.70	1.71	1.73	1.72	1.70	1.68	1.66
G160.0	1.62	1.63	1.64	1.63	1.61	1.59	1.57
G162.5	1.52	1.52	1.51	1.50	1.49	1.48	1.47
G165.0	1.43	1.43	1.43	1.41	1.40	1.39	1.39
G167.5	1.34	1.35	1.35	1.34	1.33	1.32	1.31
G170.0	1.21	1.22	1.23	1.23	1.22	1.21	1.21
G172.5	1.14	1.15	1.15	1.15	1.14	1.12	1.12
G175.0	1.00	1.03	1.04	1.05	1.06	1.06	1.06
G177.5	0.99	1.01	1.01	1.00	0.97	0.95	0.94
G180.0	0.96	0.96	0.96	0.96	0.96	0.96	0.96

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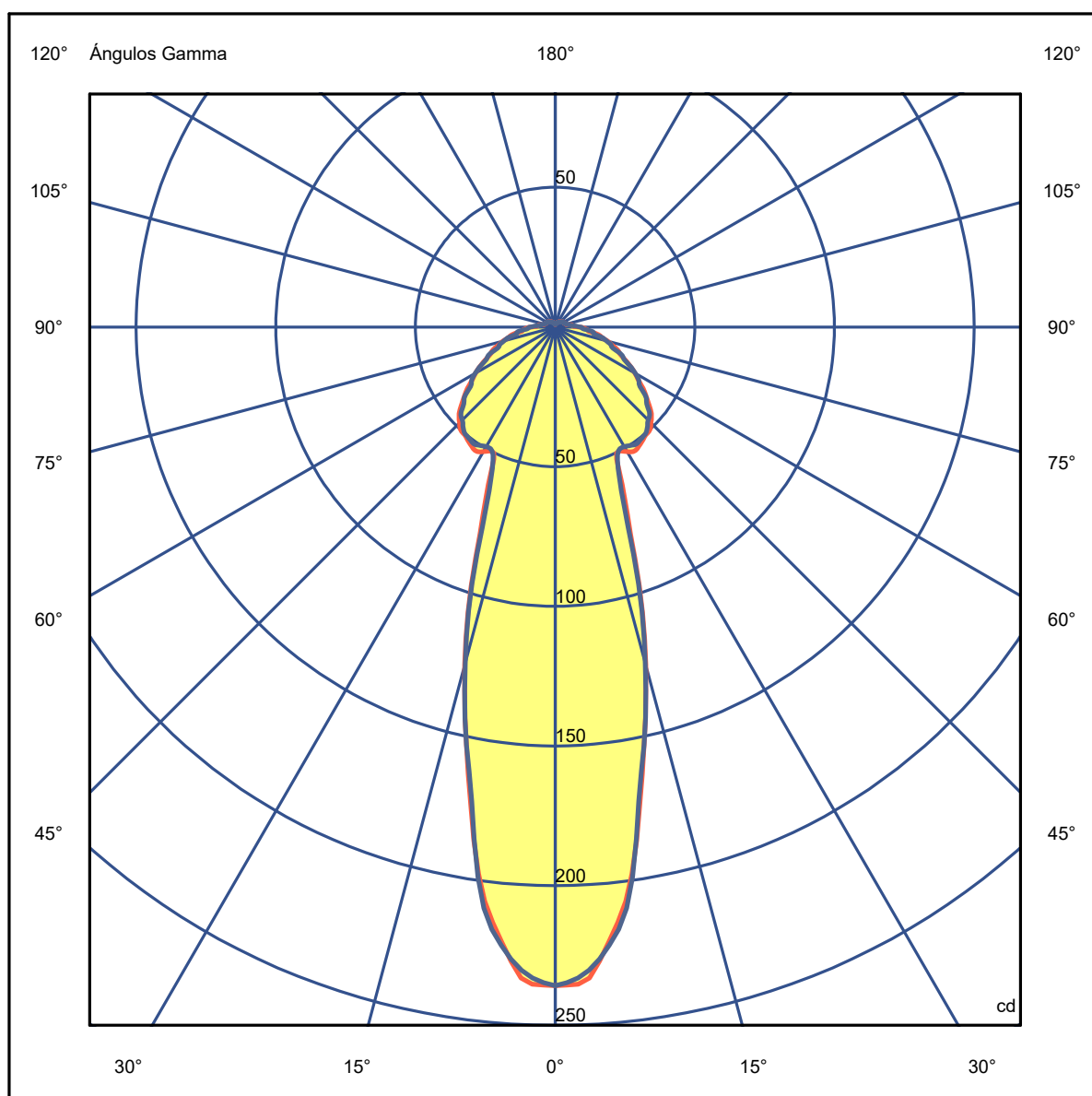
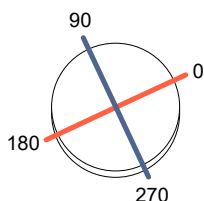
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Sources Flux	265.01 lm	Maximum value	235.79 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=310mm

Semiplanos C

180.0 — 0.0
270.0 — 90.0



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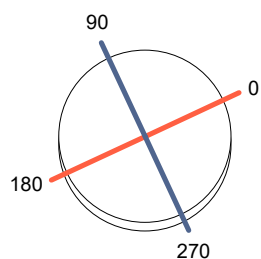
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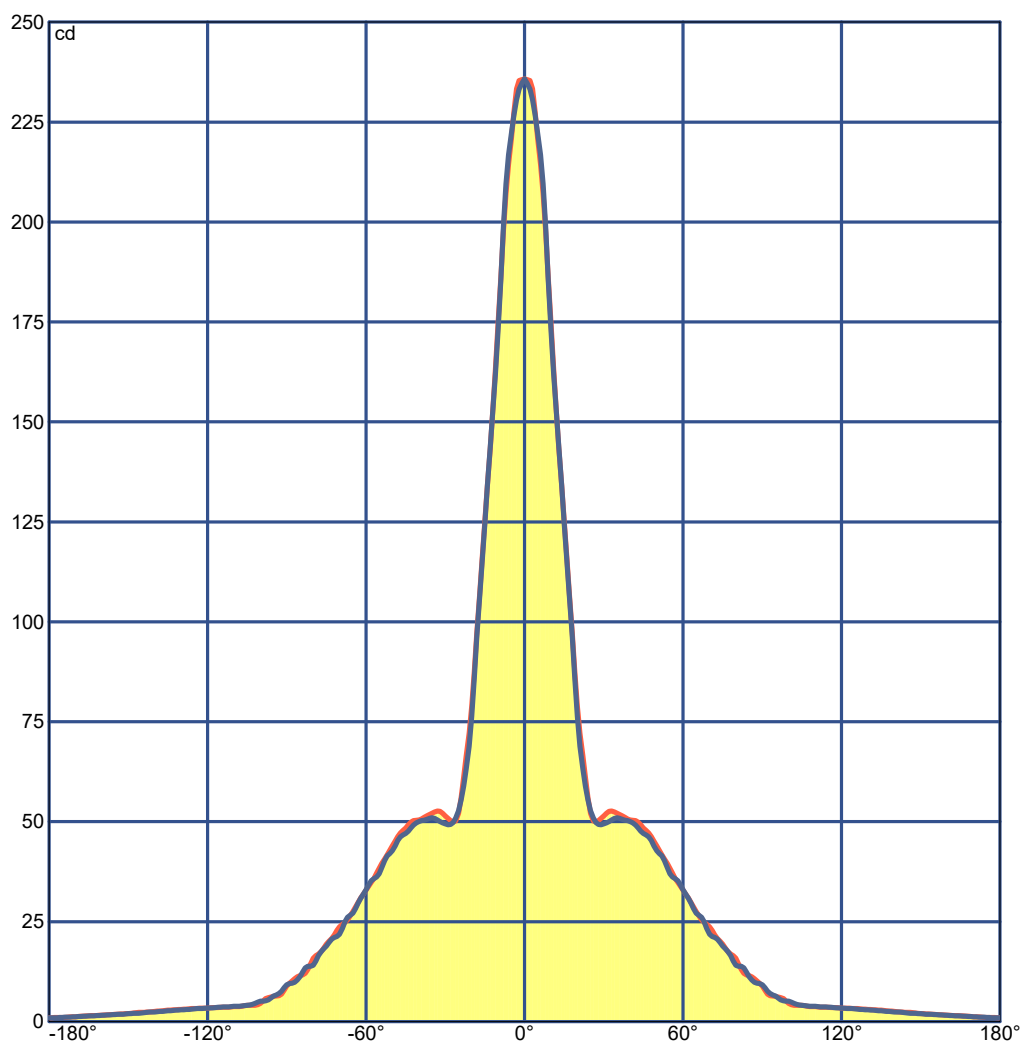
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UGR
S = 0.250

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	17.9	19.1	18.3	19.4	19.8	17.8	19.0	18.2	19.4	19.8
x=2H y=3H	19.7	20.8	20.2	21.2	21.7	19.6	20.7	20.1	21.1	21.6
x=2H y=4H	20.6	21.7	21.1	22.1	22.5	20.5	21.6	21.0	22.0	22.5
x=2H y=6H	21.6	22.6	22.1	23.0	23.5	21.5	22.4	22.0	22.9	23.4
x=2H y=8H	22.1	23.0	22.6	23.5	24.0	22.0	22.9	22.5	23.4	23.9
x=2H y=12H	22.6	23.5	23.1	23.9	24.4	22.5	23.4	23.1	23.9	24.4
x=4H y=2H	18.6	19.6	19.0	20.0	20.5	18.5	19.6	19.0	20.0	20.4
x=4H y=3H	20.6	21.5	21.1	22.0	22.5	20.5	21.4	21.0	21.9	22.4
x=4H y=4H	21.7	22.5	22.2	23.0	23.5	21.6	22.4	22.2	22.9	23.5
x=4H y=6H	22.9	23.6	23.4	24.1	24.7	22.7	23.4	23.3	24.0	24.5
x=4H y=8H	23.4	24.1	24.0	24.6	25.2	23.3	24.0	23.9	24.5	25.1
x=4H y=12H	24.0	24.6	24.6	25.2	25.8	24.0	24.6	24.6	25.2	25.8
x=8H y=4H	22.1	22.7	22.6	23.3	23.9	22.0	22.7	22.6	23.2	23.8
x=8H y=6H	23.5	24.0	24.1	24.6	25.2	23.4	23.9	24.0	24.5	25.1
x=8H y=8H	24.2	24.6	24.8	25.2	25.9	24.1	24.6	24.7	25.2	25.9
x=8H y=12H	25.0	25.4	25.6	26.0	26.7	25.0	25.4	25.6	26.0	26.7
x=12H y=4H	22.8	23.4	23.4	24.0	24.6	22.8	23.4	23.4	24.0	24.6
x=12H y=6H	24.1	24.6	24.7	25.1	25.8	24.0	24.5	24.6	25.1	25.7
x=12H y=8H	24.7	25.1	25.4	25.8	26.4	24.8	25.2	25.4	25.8	26.5

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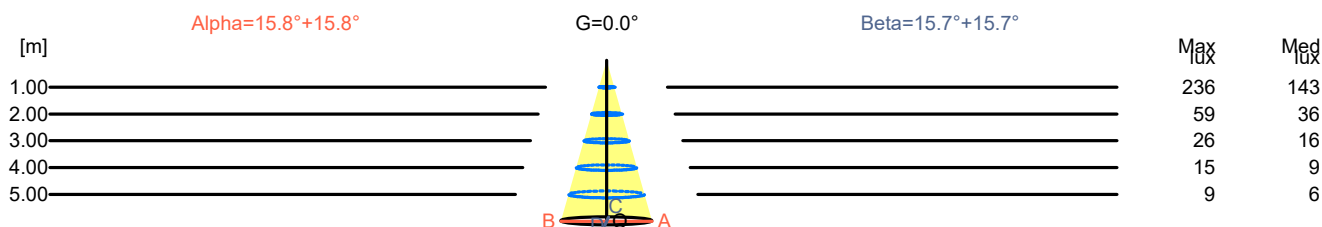
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Width at 50.00 % of Max Intensity

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	0.28	0.57	0.85	1.13	1.42	OC	0.28	0.56	0.85	1.13	1.41
OB	0.28	0.57	0.85	1.13	1.42	OD	0.28	0.56	0.85	1.13	1.41

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	235.79	220.88	125.14	52.07	52.10	48.45	38.36	27.49	19.32	11.51
OB	235.79	220.88	125.14	52.07	52.10	48.45	38.36	27.49	19.32	11.51
OC	235.79	222.17	124.51	52.76	50.98	47.02	36.97	27.16	18.89	11.29
OD	235.79	222.17	124.51	52.76	50.98	47.02	36.97	27.16	18.89	11.29



H[m]	D[m]	Max lux	Med lux	Alpha=15.8°+15.8°	G=0.0	
1.00	0.57	236	143			
2.00	1.13	59	36			
3.00	1.70	26	16			
4.00	2.27	15	9			
5.00	2.83	9	6			

H[m]	D[m]	Max lux	Med lux	Beta=15.7°+15.7°	G=0.0	
1.00	0.56	236	143			
2.00	1.13	59	36			
3.00	1.69	26	16			
4.00	2.25	15	9			
5.00	2.82	9	6			

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Flujo Total=265.01 Flujo Luminaria=265.01

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	0.32	0.40	0.47	0.53	0.58	0.66	0.72	0.76	0.81	0.84	0.91	0.95
RC	5	5	5	5	5	5	5	5	6	6	6	6

Flujo Zonal por 1000 Lúmenes

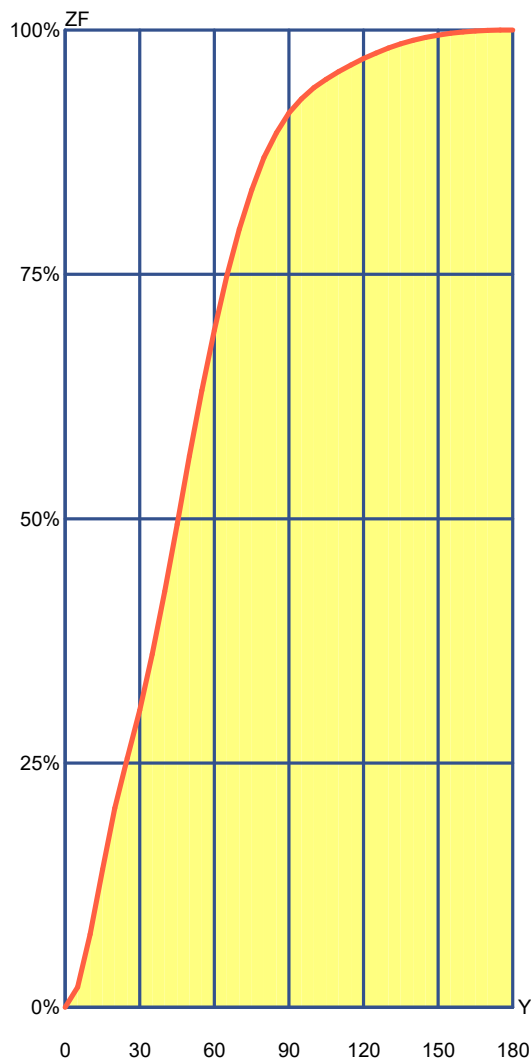
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	75	204	304	426	564	693	796	870	915	941	957	971	982	990	995	998	1000	1000

Códigos de Flujo C.I.E.

49 76 92 92 100

C.I.E. 5/5/5/5/5/5/5/6/6/6
D DIN 5040 A31
F UTE 0.92 E + 0.08 T
B NBN BZ 4 / 1.25 / BZ 5
RN 8.49640 %
BLF 1.0

LOR 100.00000 %
ULOR 8.49640 %
DLOR 91.50360 %
UFF 8.49640 %
DFF 91.50360 %
FFR 9.28532 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00 %	0.00 %
5°	20.71	20.71	2.07 %	2.07 %
10°	53.92	74.63	5.39 %	7.46 %
15°	66.58	141.20	6.66 %	14.12 %
20°	62.62	203.82	6.26 %	20.38 %
25°	50.87	254.69	5.09 %	25.47 %
30°	49.12	303.81	4.91 %	30.38 %
35°	57.34	361.15	5.73 %	36.11 %
40°	64.39	425.54	6.44 %	42.55 %
45°	68.80	494.34	6.88 %	49.43 %
50°	69.83	564.18	6.98 %	56.42 %
55°	67.00	631.17	6.70 %	63.12 %
60°	61.60	692.77	6.16 %	69.28 %
65°	55.53	748.30	5.55 %	74.83 %
70°	48.01	796.31	4.80 %	79.63 %
75°	40.39	836.71	4.04 %	83.67 %
80°	32.86	869.57	3.29 %	86.96 %
85°	25.44	895.00	2.54 %	89.50 %
90°	20.03	915.04	2.00 %	91.50 %
95°	14.48	929.52	1.45 %	92.95 %
100°	11.48	940.99	1.15 %	94.10 %
105°	8.71	949.70	0.87 %	94.97 %
110°	7.66	957.36	0.77 %	95.74 %
115°	7.02	964.38	0.70 %	96.44 %
120°	6.38	970.76	0.64 %	97.08 %
125°	5.74	976.50	0.57 %	97.65 %
130°	5.06	981.56	0.51 %	98.16 %
135°	4.34	985.89	0.43 %	98.59 %
140°	3.63	989.52	0.36 %	98.95 %
145°	2.98	992.50	0.30 %	99.25 %
150°	2.38	994.88	0.24 %	99.49 %
155°	1.83	996.71	0.18 %	99.67 %
160°	1.35	998.07	0.14 %	99.81 %
165°	0.94	999.00	0.09 %	99.90 %
170°	0.60	999.60	0.06 %	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

