OxyTech

Luminaire

Code	2165XX (3500K)
Name	2165 (3500K)
Line	RHYTHM WOOD - VERTICAL

Measurem.

Code	CL252A24F007G
Name	Rhythm Wood

Source Data

Code	5752898 + 5752899	Correlated Color Temperature (CCT)	3500K	Q.ty	1
Name	8 x LED STRIP 5.8W 30V	Color rendering index (CRI)	90		
Line					

Measurement data

Coordinate system	CG	Symmetry Type	Double Symmetrical
Date	19-07-2024	Maximum Gamma Angle	180°
Measurement Distance	6.49m	Measurement Flux	1469.7 lm
Maximum	288.03 cd/klm	Position	C=0.0° G=0.0°
Remarks	This photometry has been performed using a bench power supply.		

Electrical Parameters

Channel 1		Channel 2	
Voltage	0.00 V	Voltage	30.00 V
Current	0.00 A	Current	1.33 A
Power	0.00 W	Power	40.00 W
Frequency	0 Hz	Frequency	0 Hz
Power Factor	0.00	Power Factor	0.00

Environmental Parameters

Temperature	25.2 °C	Air Speed	0.0 m/s
Humidity	53.9 %		

Luminaire Dimensions

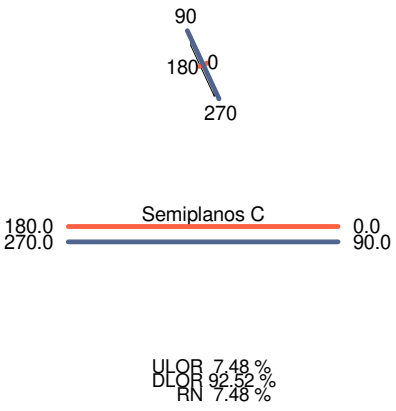
Rectangular Luminaire	Length	870 mm	Width	20 mm	Height	440 mm
Rectangular Luminous Area	Length	850 mm	Width	15 mm	Height	410 mm

Horizontal Luminous Area	0.012750 m2	Emitting area on Plane 180°	0.348500 m2
Emitting area on Plane 0°	0.348500 m2	Emitting area on Plane 270°	0.006150 m2
Emitting area on Plane 90°	0.006150 m2	Glare area at 76°	0.341233 m2

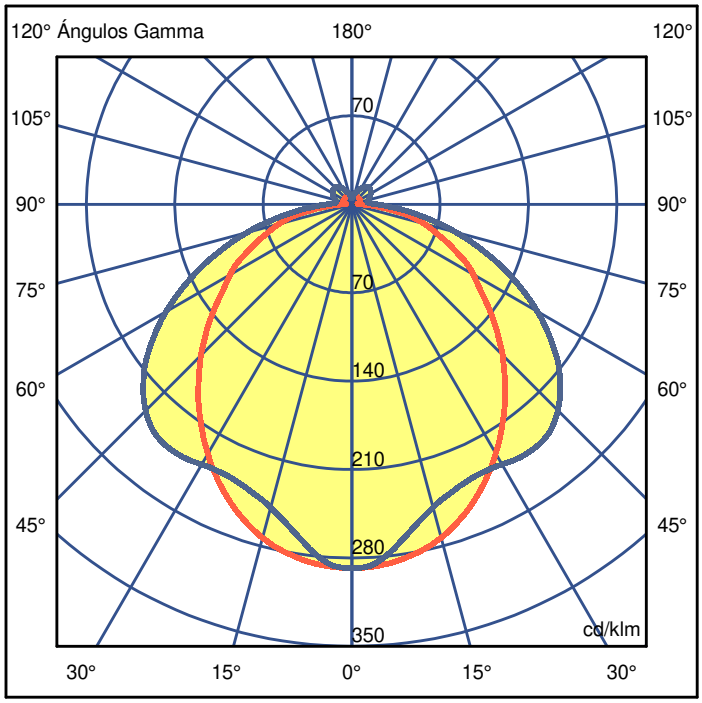
Photometric Assessment

Luminaire Flux	1469.7 lm	Source Flux	1469.7 lm
Efficacy	36.742 lm/W	Efficiency	100.0 %
CIE Flux Codes	41 73 93 93 100	D DIN 5040	A31
F UTE	0.93 G + 0.07 T	B NBN	BZ 5

870mm x 20mm



ULOR 7.48 %
DLOR 92.52 %
RN 7.48 %



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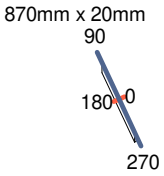
Luminaire Flux	1470 lm	Luminaire Power	40.0 W	Efficacy	36.742 lm/W	Efficiency	100.00%
Source Flux	1470 lm	Maximum value	288.03 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Luminous Intensity Table cd/klm **Table 1/1**

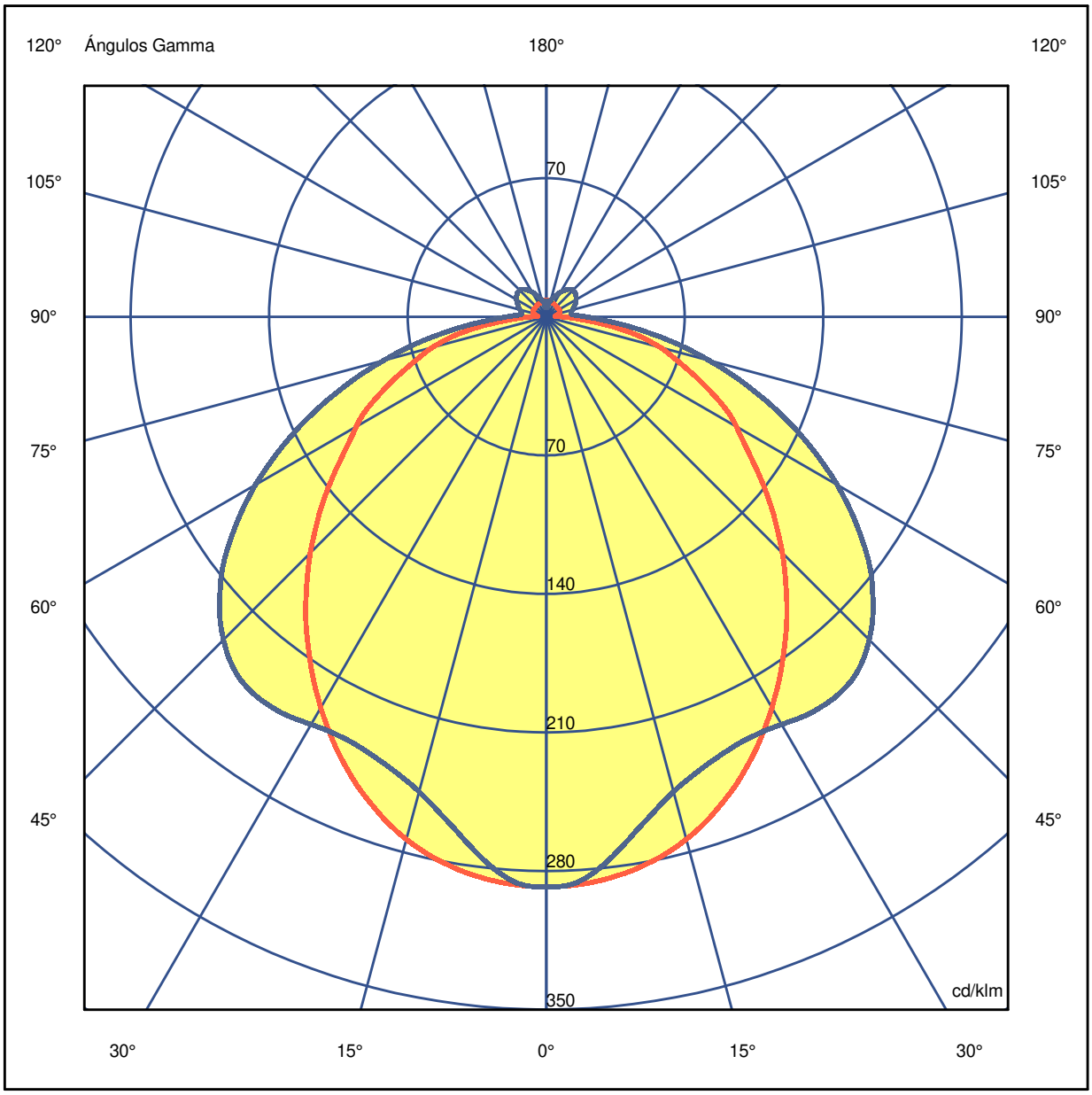
	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	288	288	288	288	288	288	288
G 2.5	288	288	288	287	287	286	287
G 5.0	286	286	286	286	284	281	282
G 7.5	284	284	284	282	278	273	273
G 10.0	282	281	280	277	271	265	263
G 12.5	278	277	275	271	264	256	255
G 15.0	273	273	270	264	257	250	248
G 17.5	268	267	264	258	252	245	244
G 20.0	261	261	257	252	248	241	240
G 22.5	254	254	250	247	244	239	238
G 25.0	246	247	243	242	242	237	236
G 27.5	237	240	236	237	241	236	236
G 30.0	228	233	229	234	241	237	238
G 32.5	219	225	222	231	242	239	240
G 35.0	209	216	214	228	243	240	241
G 37.5	199	207	207	227	244	241	241
G 40.0	189	198	201	225	243	239	240
G 42.5	179	188	195	223	240	236	236
G 45.0	169	178	190	219	236	231	231
G 47.5	158	169	183	215	229	224	224
G 50.0	148	159	177	210	221	216	215
G 52.5	138	149	170	203	212	206	206
G 55.0	127	138	163	195	202	195	194
G 57.5	118	127	156	186	190	184	183
G 60.0	111	118	148	175	178	171	170
G 62.5	103	109	140	163	164	157	156
G 65.0	93	100	131	150	149	144	142
G 67.5	84	92	121	136	135	129	128
G 70.0	75	83	110	121	119	115	114
G 72.5	67	74	97	106	104	100	100
G 75.0	60	65	84	90	89	87	85
G 77.5	51	55	71	75	74	73	72
G 80.0	41	46	57	61	60	59	59
G 82.5	30	36	44	47	47	47	46
G 85.0	21	25	31	34	35	36	35
G 87.5	13	15	19	23	24	27	27
G 90.0	8	8	11	15	17	20	20
G 92.5	5	6	8	11	13	15	16
G 95.0	4	6	8	10	11	13	13
G 97.5	5	7	9	10	11	12	12
G100.0	5	7	10	11	12	12	13
G102.5	6	8	10	12	13	13	13
G105.0	7	8	11	13	13	13	14
G107.5	7	8	12	14	14	14	14
G110.0	7	9	12	14	14	14	15
G112.5	7	9	12	15	15	15	16
G115.0	7	9	13	15	16	15	16
G117.5	7	9	13	16	16	16	17
G120.0	7	10	13	16	17	16	17
G122.5	7	10	12	16	17	17	18
G125.0	7	9	12	16	18	17	18
G127.5	7	9	12	16	18	18	19
G130.0	7	9	12	16	18	18	19
G132.5	7	9	11	15	18	18	19
G135.0	7	9	11	14	17	18	19
G137.5	7	9	10	14	17	18	19
G140.0	7	9	10	13	16	17	18
G142.5	7	9	10	12	15	17	17
G145.0	8	9	9	11	14	16	17
G147.5	8	9	9	10	13	15	16
G150.0	8	8	8	10	12	14	15
G152.5	8	8	8	9	11	13	13
G155.0	8	8	8	8	10	12	12
G157.5	8	8	8	8	9	11	11
G160.0	8	8	7	8	8	10	10
G162.5	8	8	8	7	8	9	10
G165.0	8	8	8	8	8	8	9
G167.5	8	8	8	8	7	7	8
G170.0	8	9	9	8	7	6	7
G172.5	8	9	9	8	7	6	5
G175.0	8	10	9	9	7	6	5
G177.5	8	10	10	9	7	5	5
G180.0	8	8	8	8	8	8	8

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Source Flux	1470 lm	Maximum value	288.03 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical



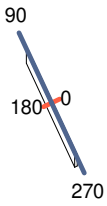




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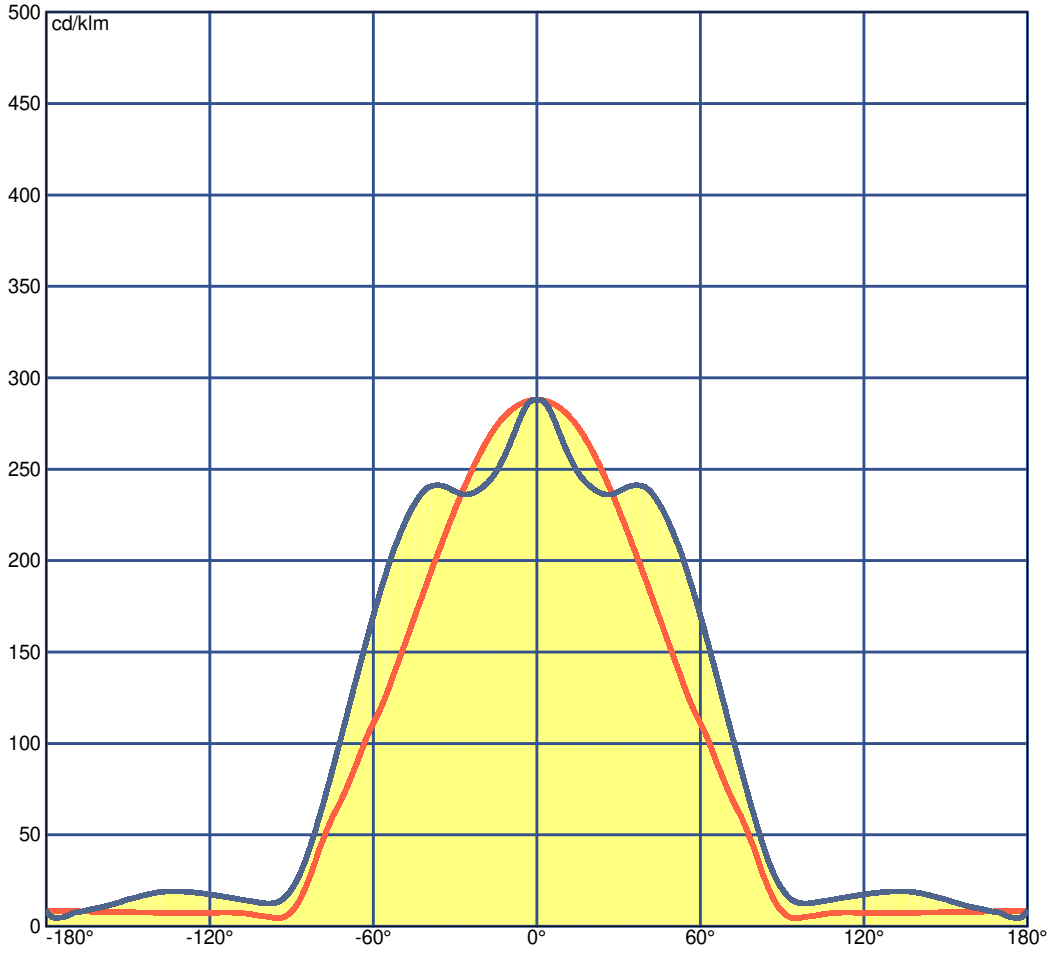
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870mm x 20mm



Semiplanos C

180.0 0.0
270.0 90.0



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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	11.2	12.5	11.6	12.9	13.3	17.4	18.7	17.8	19.1	19.4
x=2H y=3H	12.0	13.2	12.5	13.6	14.1	19.0	20.2	19.5	20.6	21.1
x=2H y=4H	12.3	13.5	12.8	13.9	14.3	19.7	20.9	20.2	21.3	21.7
x=2H y=6H	12.5	13.6	13.0	14.0	14.5	20.3	21.3	20.8	21.8	22.2
x=2H y=8H	12.6	13.6	13.1	14.0	14.5	20.5	21.5	21.0	22.0	22.5
x=2H y=12H	12.6	13.6	13.1	14.0	14.5	20.7	21.7	21.2	22.1	22.6
x=4H y=2H	12.5	13.6	12.9	14.0	14.5	17.4	18.5	17.8	18.9	19.4
x=4H y=3H	13.5	14.5	14.0	14.9	15.4	19.1	20.1	19.7	20.6	21.1
x=4H y=4H	13.9	14.7	14.4	15.2	15.8	19.9	20.8	20.4	21.2	21.8
x=4H y=6H	14.1	14.9	14.7	15.4	16.0	20.5	21.3	21.1	21.8	22.3
x=4H y=8H	14.2	14.9	14.7	15.4	16.0	20.8	21.5	21.3	22.0	22.6
x=4H y=12H	14.2	14.9	14.8	15.4	16.0	21.0	21.6	21.5	22.2	22.8
x=8H y=4H	14.4	15.1	14.9	15.6	16.2	19.9	20.6	20.4	21.1	21.7
x=8H y=6H	14.7	15.3	15.3	15.9	16.5	20.5	21.1	21.1	21.7	22.3
x=8H y=8H	14.9	15.4	15.5	15.9	16.6	20.8	21.3	21.4	21.9	22.6
x=8H y=12H	14.9	15.4	15.5	16.0	16.6	21.1	21.5	21.7	22.1	22.8
x=12H y=4H	14.4	15.0	15.0	15.6	16.2	19.9	20.5	20.4	21.0	21.6
x=12H y=6H	14.8	15.3	15.4	15.9	16.6	20.5	21.0	21.1	21.6	22.3
x=12H y=8H	15.0	15.4	15.6	16.0	16.7	20.8	21.3	21.4	21.9	22.5

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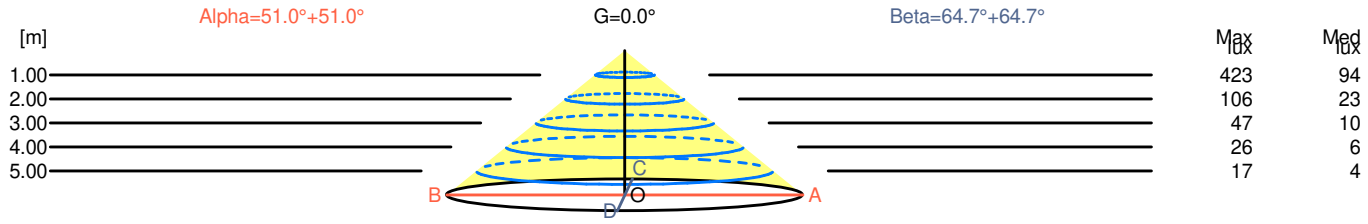
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Source Flux	1470 lm	Maximum value	288.03 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

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	1.23	2.47	3.70	4.94	6.17	OC	2.11	4.23	6.34	8.46	10.57
OB	1.23	2.47	3.70	4.94	6.17	OD	2.11	4.23	6.34	8.46	10.57

Luminous Intensities [cd/klm]

	0	5	15	25	35	45	55	65	75	85
OA	423.30	420.93	401.63	360.97	306.95	248.02	187.34	137.14	87.83	30.20
OB	423.30	420.93	401.63	360.97	306.95	248.02	187.34	137.14	87.83	30.20
OC	423.30	413.73	364.92	347.17	354.27	339.13	285.61	209.08	125.62	52.09
OD	423.30	413.73	364.92	347.17	354.27	339.13	285.61	209.08	125.62	52.09



H[m]	D[m]	Max lux	Med lux	Alpha=51.0°+51.0° G=0.0
1.00	2.47	423	94	
2.00	4.94	106	23	
3.00	7.41	47	10	
4.00	9.88	26	6	
5.00	12.35	17	4	

H[m]	D[m]	Max lux	Med lux	Beta=64.7°+64.7° G=0.0
1.00	4.23	423	94	
2.00	8.46	106	23	
3.00	12.68	47	10	
4.00	16.91	26	6	
5.00	21.14	17	4	

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Flujo Total=1469.67 Flujo Luminaria=1469.67

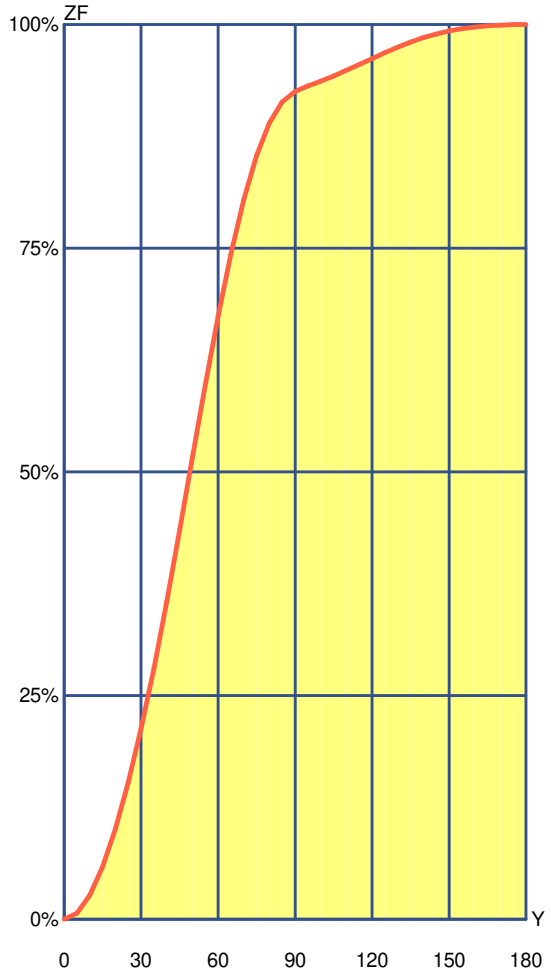
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.26	0.34	0.41	0.49	0.54	0.63	0.69	0.74	0.79	0.83	0.91	0.95
RC	6	6	6	6	6	6	6	6	6	6	6	6

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)	27	101	213	356	517	674	804	890	925	937	949	962	975	985	993	997	999	1000

Códigos de Flujo C.I.E.
41 73 93 93 100

C.I.E.	6	LOR	100.00000 %
D DIN 5040	A31	ULOR	7.47672 %
F UTE	0.93 G + 0.07 T	DLOR	92.52328 %
B NBN	BZ 5	UFF	7.47672 %
RN	7.47672 %	DFF	92.52328 %
BLF	1.0	FFR	8.08091 %



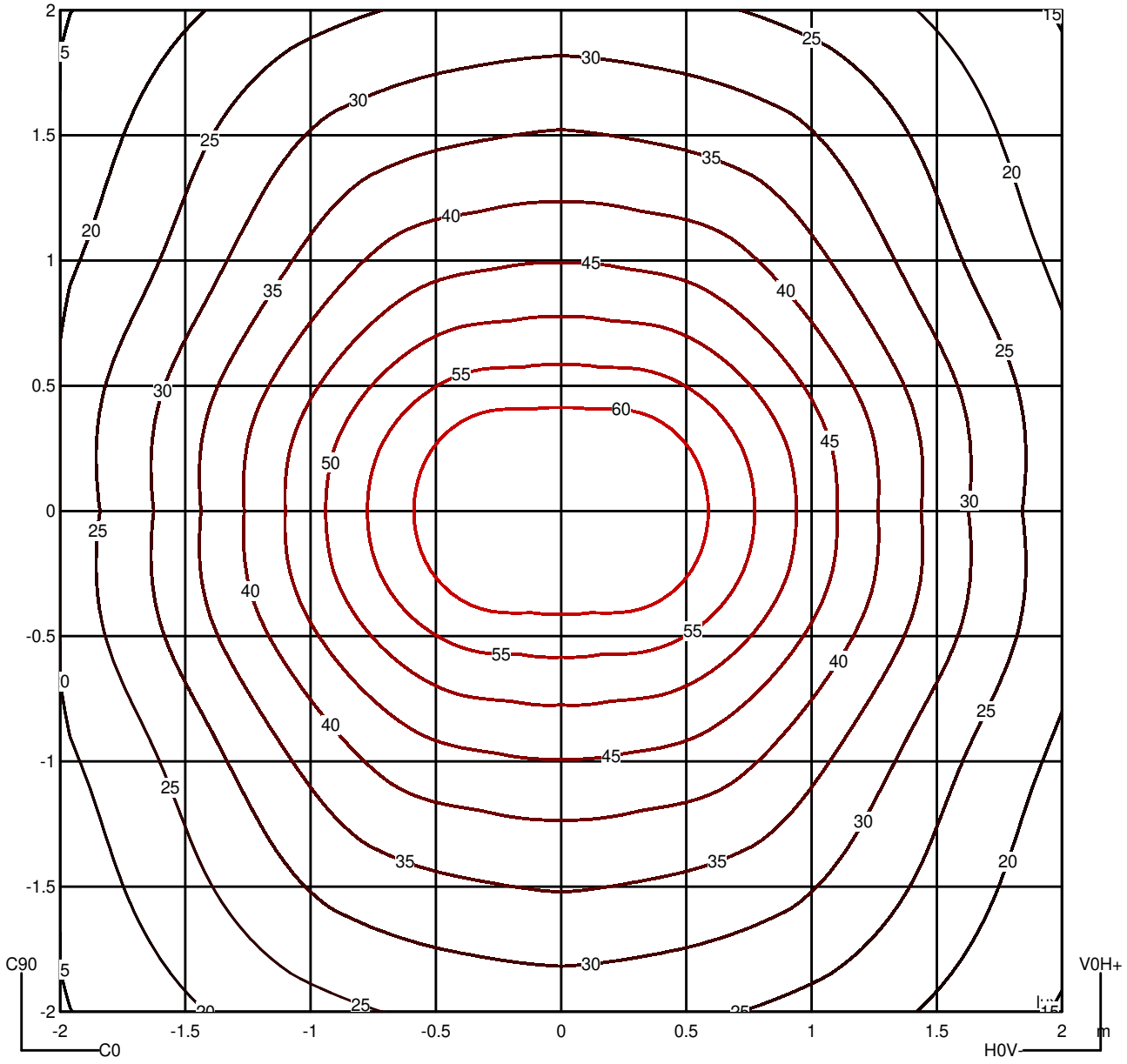
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	6.85	6.85	0.68 %	0.68 %
10°	19.99	26.83	2.00 %	2.68 %
15°	31.80	58.63	3.18 %	5.86 %
20°	42.31	100.94	4.23 %	10.09 %
25°	51.73	152.67	5.17 %	15.27 %
30°	60.26	212.93	6.03 %	21.29 %
35°	68.05	280.99	6.81 %	28.10 %
40°	74.77	355.76	7.48 %	35.58 %
45°	79.53	435.29	7.95 %	43.53 %
50°	81.49	516.78	8.15 %	51.68 %
55°	80.48	597.26	8.05 %	59.73 %
60°	76.45	673.71	7.64 %	67.37 %
65°	69.84	743.54	6.98 %	74.35 %
70°	60.53	804.07	6.05 %	80.41 %
75°	49.17	853.24	4.92 %	85.32 %
80°	36.52	889.76	3.65 %	88.98 %
85°	23.47	913.23	2.35 %	91.32 %
90°	12.01	925.23	1.20 %	92.52 %
95°	6.06	931.29	0.61 %	93.13 %
100°	5.28	936.57	0.53 %	93.66 %
105°	5.77	942.34	0.58 %	94.23 %
110°	6.25	948.59	0.63 %	94.86 %
115°	6.55	955.14	0.65 %	95.51 %
120°	6.64	961.78	0.66 %	96.18 %
125°	6.53	968.31	0.65 %	96.83 %
130°	6.21	974.51	0.62 %	97.45 %
135°	5.67	980.19	0.57 %	98.02 %
140°	4.97	985.16	0.50 %	98.52 %
145°	4.15	989.32	0.42 %	98.93 %
150°	3.31	992.63	0.33 %	99.26 %
155°	2.52	995.15	0.25 %	99.51 %
160°	1.84	996.99	0.18 %	99.70 %
165°	1.33	998.32	0.13 %	99.83 %
170°	0.93	999.25	0.09 %	99.92 %
175°	0.56	999.81	0.06 %	99.98 %
180°	0.19	1000.00	0.02 %	100.00 %

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Isolux (Floor)

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



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