OxyTech

Luminaire

Code	2167XX (3500K)
Name	2167 (2700K)
Line	RHYTHM WOOD - VERTICAL

Measurem.

Code	CL252A24F009G
Name	Rhythm Wood

Source Data

Code	5752898 + 5752899	Correlated Color Temperature (CCT)	3500K	Q.ty	1
Name	15 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	1603.9 lm
Maximum	250.82 cd/klm	Position	C=90.0° G=37.5°
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	1.88 A
Power	0.00 W	Power	56.54 W
Frequency	0 Hz	Frequency	0 Hz
Power Factor	0.00	Power Factor	0.00

Environmental Parameters

Temperature	24.8 °C	Air Speed	0.0 m/s
Humidity	50.6 %		

Luminaire Dimensions

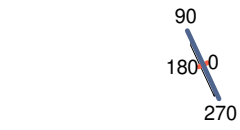
Rectangular Luminaire	Length	800 mm	Width	20 mm	Height	870 mm
Rectangular Luminous Area	Length	775 mm	Width	15 mm	Height	850 mm

Horizontal Luminous Area	0.011625 m2	Emitting area on Plane 180°	0.658750 m2
Emitting area on Plane 0°	0.658750 m2	Emitting area on Plane 270°	0.012750 m2
Emitting area on Plane 90°	0.012750 m2	Glare area at 76°	0.641995 m2

Photometric Assessment

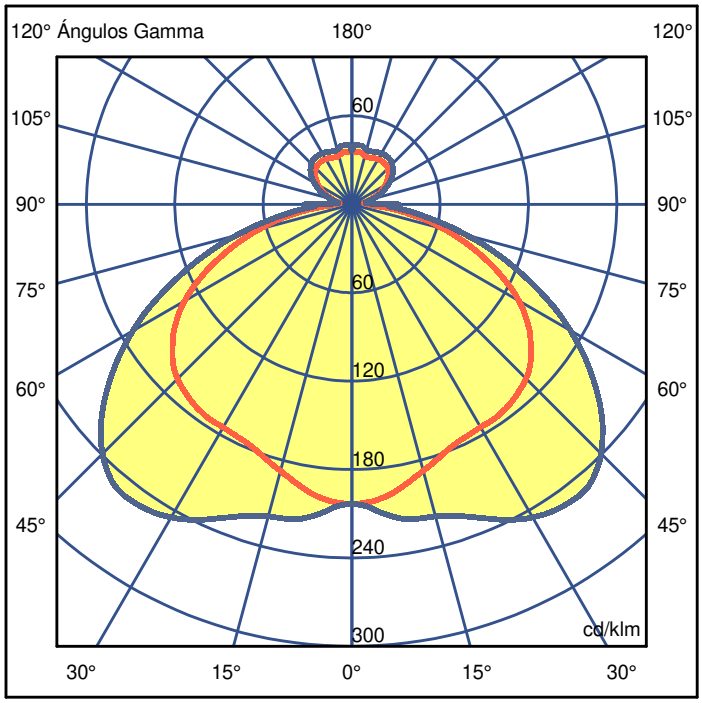
Luminaire Flux	1603.9 lm	Source Flux	1603.9 lm
Efficacy	28.368 lm/W	Efficiency	100.0 %
CIE Flux Codes	39 73 93 83 100	D DIN 5040	B21
F UTE	0.83 G + 0.17 T	B NBN	BZ 6 / 0.8 / BZ 5

800mm x 20mm





ULOR 16.69 %
DLOR 83.31 %
RN 16.69 %



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Luminaire
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Name 2167 (2700K)
Measurem.
Code CL252A24F009G
Name Rhythm Wood

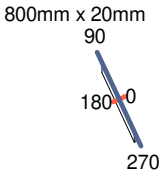
Luminaire Flux	1604 lm	Luminaire Power	56.5 W	Efficacy	28.368 lm/W	Efficiency	100.00%
Source Flux	1604 lm	Maximum value	250.82 cd/klm	Position	C=90.00 G=37.50	CG	Double Symmetrical

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

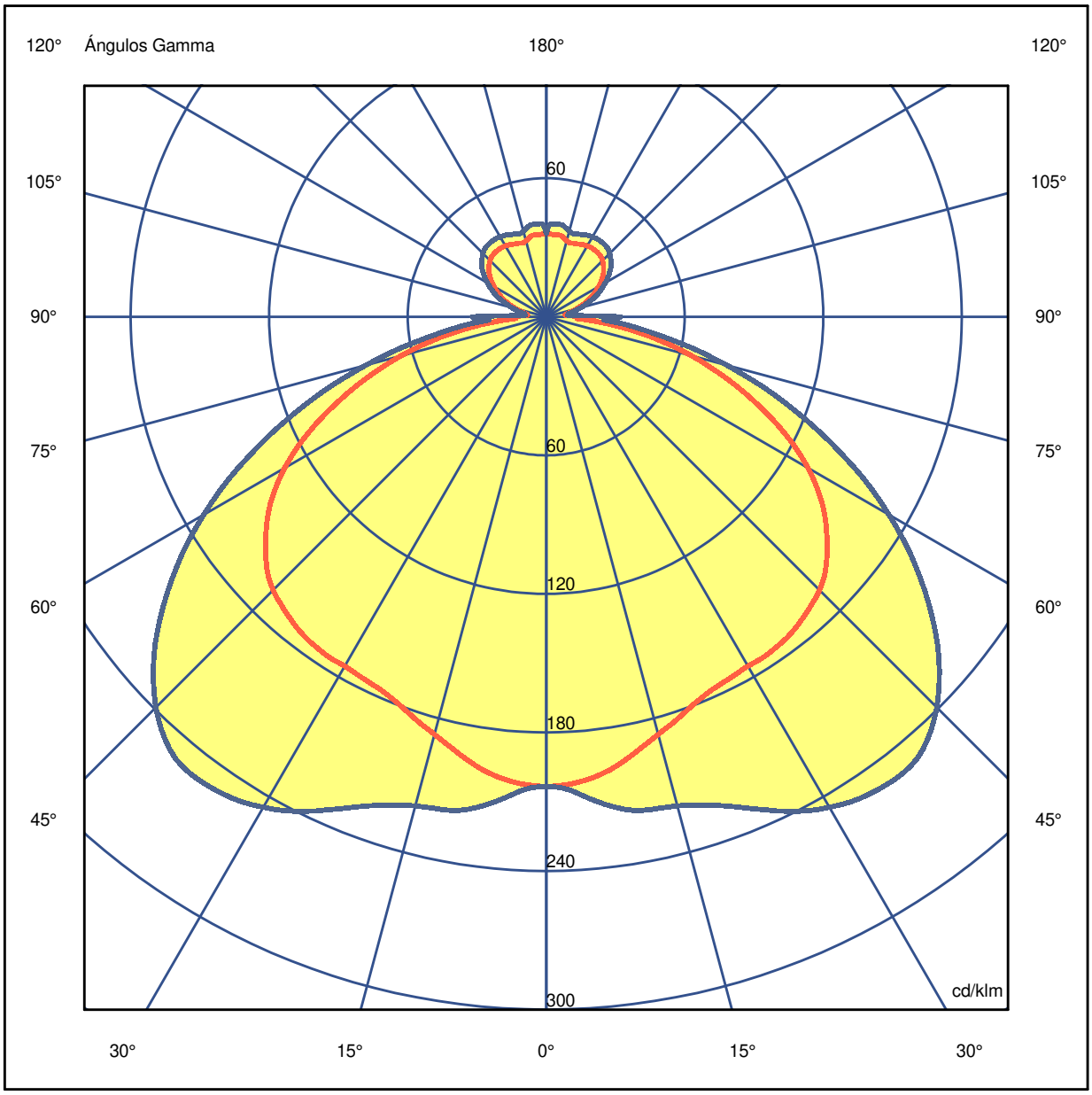
	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	203	203	203	203	203	203	203
G 2.5	203	203	203	203	205	205	205
G 5.0	201	202	202	203	206	208	209
G 7.5	199	200	200	202	208	212	214
G 10.0	195	197	198	201	209	215	217
G 12.5	191	195	196	201	210	217	218
G 15.0	187	193	195	202	212	218	219
G 17.5	184	191	195	204	214	221	222
G 20.0	181	190	195	205	217	224	225
G 22.5	178	190	195	207	220	228	230
G 25.0	176	190	195	209	222	233	236
G 27.5	175	189	195	209	225	238	241
G 30.0	175	188	194	209	226	242	245
G 32.5	175	187	193	209	228	245	248
G 35.0	174	186	191	207	229	246	250
G 37.5	173	184	189	204	228	246	251
G 40.0	172	181	184	199	225	243	250
G 42.5	170	178	178	193	220	239	246
G 45.0	167	174	171	187	214	234	239
G 47.5	164	169	163	180	207	227	231
G 50.0	159	163	155	172	199	218	221
G 52.5	153	157	146	164	190	207	210
G 55.0	147	149	137	155	180	196	198
G 57.5	139	141	128	146	169	183	185
G 60.0	131	132	119	136	157	169	171
G 62.5	121	123	109	125	145	155	157
G 65.0	110	114	99	115	132	141	142
G 67.5	99	103	90	104	118	126	126
G 70.0	88	92	81	92	104	111	111
G 72.5	76	81	71	80	91	96	96
G 75.0	65	68	61	68	77	81	81
G 77.5	54	56	51	56	63	66	67
G 80.0	42	45	42	45	50	53	54
G 82.5	31	33	32	34	39	41	42
G 85.0	21	23	23	24	29	31	32
G 87.5	13	15	17	18	22	24	25
G 90.0	20	22	24	25	29	31	32
G 92.5	9	10	10	10	11	11	11
G 95.0	8	9	9	9	9	9	9
G 97.5	8	9	9	9	9	9	9
G100.0	10	10	11	11	11	11	11
G102.5	12	13	13	13	13	13	13
G105.0	14	15	15	15	15	15	15
G107.5	16	17	17	17	17	18	18
G110.0	18	19	20	20	20	20	20
G112.5	20	22	22	22	23	23	23
G115.0	22	24	24	24	25	25	25
G117.5	24	26	26	26	27	27	27
G120.0	26	28	28	29	29	29	30
G122.5	28	30	30	31	31	31	32
G125.0	30	32	32	32	33	33	33
G127.5	31	34	34	34	35	35	35
G130.0	32	35	35	35	36	37	37
G132.5	34	36	36	37	37	38	38
G135.0	34	37	37	38	38	39	39
G137.5	35	38	38	38	39	40	40
G140.0	35	38	39	39	39	40	40
G142.5	36	38	39	39	40	40	40
G145.0	36	38	39	39	40	40	40
G147.5	36	38	39	39	40	40	40
G150.0	35	38	39	39	39	40	40
G152.5	35	38	38	38	39	40	40
G155.0	35	37	38	38	39	39	39
G157.5	34	37	37	37	38	39	39
G160.0	34	37	37	37	38	38	38
G162.5	34	36	36	37	37	38	38
G165.0	34	37	37	37	38	38	38
G167.5	35	38	38	38	39	39	39
G170.0	36	39	39	39	40	40	40
G172.5	36	39	39	39	40	40	40
G175.0	36	38	39	39	40	40	40
G177.5	36	39	39	39	40	40	41
G180.0	36	36	36	36	36	36	36

Luminaire
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Code CL252A24F009G
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Luminaire Flux	1604 lm	Luminaire Power	56.5 W	Efficacy	28.368 lm/W	Efficiency	100.00%
Source Flux	1604 lm	Maximum value	250.82 cd/klm	Position	C=90.00 G=37.50	CG	Double Symmetrical



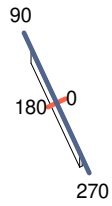




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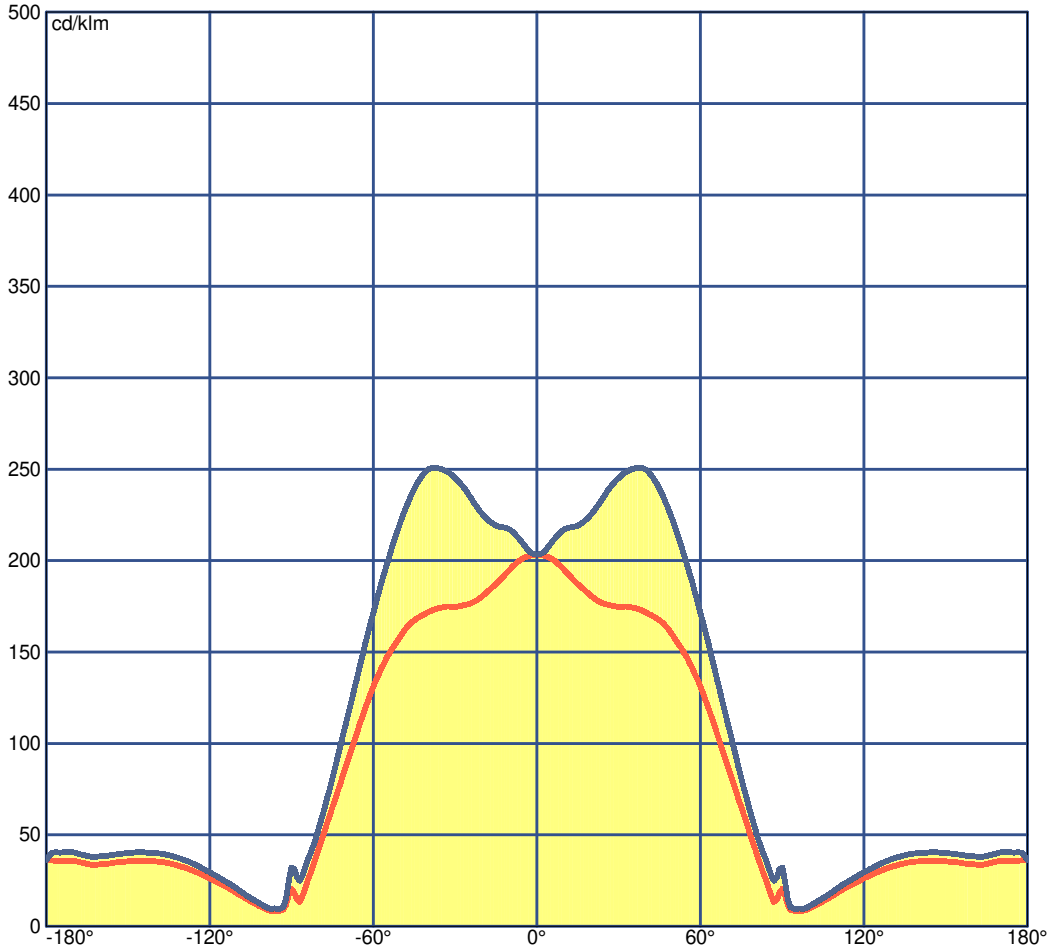
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800mm x 20mm



Semiplanos C

180.0 0.0
270.0 90.0



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Source Flux	1604 lm	Maximum value	250.82 cd/klm	Position	C=90.00 G=37.50	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	Lateral View					Viewed Endwise				
x=2H y=2H	8.9	10.1	9.4	10.6	11.2	15.4	16.6	15.9	17.1	17.7
x=2H y=3H	10.0	11.1	10.5	11.6	12.2	17.0	18.1	17.6	18.6	19.3
x=2H y=4H	10.4	11.4	10.9	11.9	12.6	17.6	18.7	18.2	19.2	19.8
x=2H y=6H	10.6	11.5	11.2	12.1	12.7	18.1	19.0	18.7	19.6	20.3
x=2H y=8H	10.6	11.5	11.2	12.1	12.8	18.3	19.2	18.9	19.8	20.4
x=2H y=12H	10.6	11.5	11.2	12.1	12.8	18.4	19.3	19.0	19.9	20.5
x=4H y=2H	9.7	10.7	10.3	11.3	11.9	15.3	16.3	15.9	16.9	17.5
x=4H y=3H	10.8	11.7	11.4	12.3	13.0	17.0	17.8	17.6	18.4	19.1
x=4H y=4H	11.3	12.0	11.9	12.7	13.4	17.7	18.4	18.3	19.0	19.7
x=4H y=6H	11.6	12.2	12.2	12.9	13.6	18.2	18.8	18.8	19.5	20.2
x=4H y=8H	11.6	12.2	12.3	12.9	13.7	18.4	19.0	19.0	19.7	20.4
x=4H y=12H	11.7	12.2	12.3	12.9	13.7	18.6	19.1	19.2	19.8	20.6
x=8H y=4H	11.6	12.2	12.2	12.8	13.6	17.6	18.2	18.2	18.8	19.6
x=8H y=6H	11.9	12.4	12.6	13.1	13.9	18.1	18.6	18.8	19.3	20.1
x=8H y=8H	12.0	12.5	12.7	13.2	14.0	18.4	18.8	19.1	19.5	20.3
x=8H y=12H	12.1	12.5	12.8	13.2	14.0	18.6	18.9	19.3	19.7	20.5
x=12H y=4H	11.6	12.1	12.3	12.8	13.6	17.5	18.1	18.2	18.7	19.5
x=12H y=6H	12.0	12.4	12.7	13.1	13.9	18.1	18.5	18.8	19.2	20.0
x=12H y=8H	12.1	12.5	12.8	13.2	14.0	18.3	18.7	19.0	19.4	20.3

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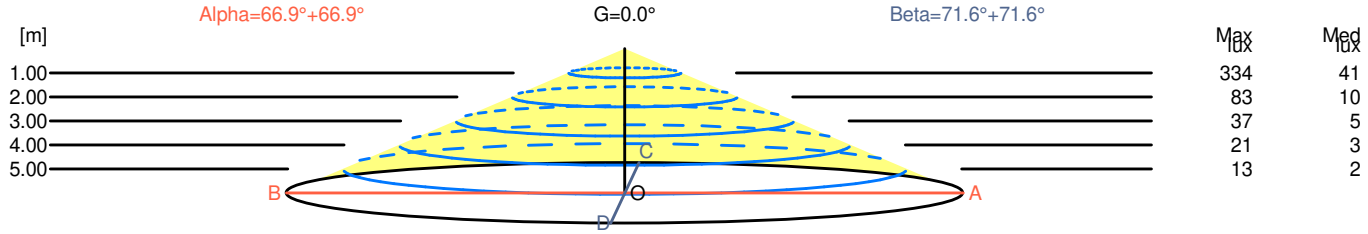
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Source Flux	1604 lm	Maximum value	250.82 cd/klm	Position	C=90.00 G=37.50	CG	Double Symmetrical

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	2.34	4.69	7.03	9.38	11.72	OC	3.00	6.01	9.01	12.02	15.02
OB	2.34	4.69	7.03	9.38	11.72	OD	3.00	6.01	9.01	12.02	15.02

Luminous Intensities [cd/klm]

	0	5	15	25	35	45	55	65	75	85
OA	326.14	322.69	300.16	282.58	279.59	268.39	235.66	177.00	104.39	33.37
OB	326.14	322.69	300.16	282.58	279.59	268.39	235.66	177.00	104.39	33.37
OC	326.14	335.49	351.50	378.52	401.01	383.63	317.43	227.34	129.98	51.74
OD	326.14	335.49	351.50	378.52	401.01	383.63	317.43	227.34	129.98	51.74



H[m]	D[m]	Max lux	Med lux	Alpha=66.9°+66.9° G=0.0
1.00	4.69	334	41	
2.00	9.38	83	10	
3.00	14.07	37	5	
4.00	18.76	21	3	
5.00	23.45	13	2	

H[m]	D[m]	Max lux	Med lux	Beta=71.6°+71.6° G=0.0
1.00	6.01	334	41	
2.00	12.02	83	10	
3.00	18.03	37	5	
4.00	24.04	21	3	
5.00	30.04	13	2	

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Flujo Total=1603.90 Flujo Luminaria=1603.90

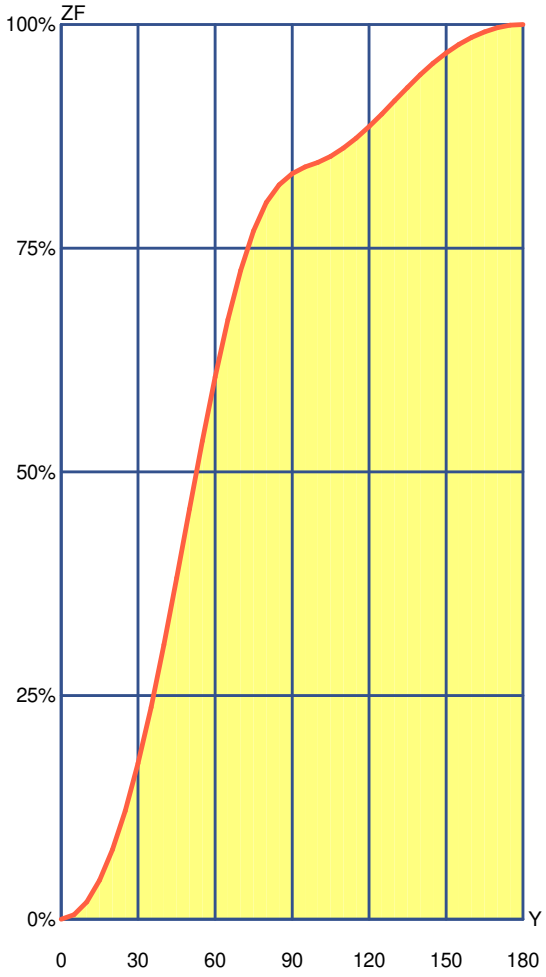
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.25	0.33	0.40	0.48	0.54	0.63	0.69	0.73	0.79	0.83	0.90	0.95
RC	7	6	6	6	6	6	6	6	6	6	6	6

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)	20	77	174	307	459	606	725	801	833	846	862	886	915	944	968	986	996	1000

Códigos de Flujo C.I.E.
39 73 93 83 100

C.I.E.	7/6/6/6/6/6/6/6/6/6/6	LOR	100.00000 %
D DIN 5040	B21	ULOR	16.69214 %
F UTE	0.83 G + 0.17 T	DLOR	83.30786 %
B NBN	BZ 6 / 0.8 / BZ 5	UFF	16.69214 %
RN	16.69214 %	DFF	83.30786 %
BLF	1.0	FFR	20.03670 %



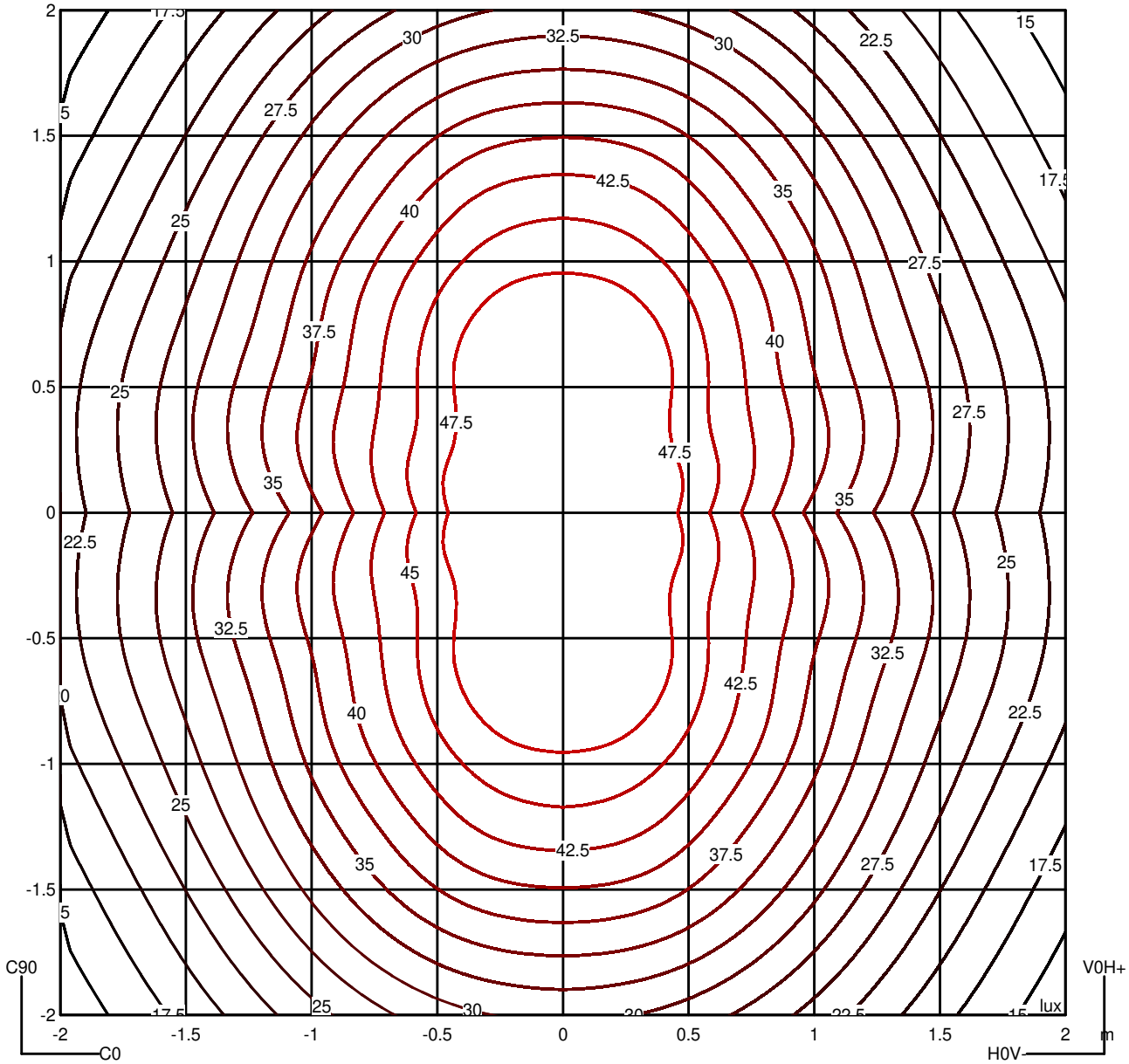
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	4.88	4.88	0.49 %	0.49 %
10°	14.63	19.50	1.46 %	1.95 %
15°	24.20	43.70	2.42 %	4.37 %
20°	33.75	77.45	3.38 %	7.75 %
25°	43.53	120.98	4.35 %	12.10 %
30°	53.30	174.28	5.33 %	17.43 %
35°	62.44	236.72	6.24 %	23.67 %
40°	70.05	306.78	7.01 %	30.68 %
45°	74.94	381.72	7.49 %	38.17 %
50°	76.87	458.59	7.69 %	45.86 %
55°	75.68	534.27	7.57 %	53.43 %
60°	71.50	605.77	7.15 %	60.58 %
65°	64.48	670.25	6.45 %	67.02 %
70°	55.12	725.37	5.51 %	72.54 %
75°	43.91	769.29	4.39 %	76.93 %
80°	31.64	800.92	3.16 %	80.09 %
85°	19.72	820.65	1.97 %	82.06 %
90°	12.43	833.08	1.24 %	83.31 %
95°	7.64	840.71	0.76 %	84.07 %
100°	5.14	845.86	0.51 %	84.59 %
105°	6.81	852.67	0.68 %	85.27 %
110°	9.02	861.69	0.90 %	86.17 %
115°	11.21	872.90	1.12 %	87.29 %
120°	12.87	885.77	1.29 %	88.58 %
125°	14.10	899.86	1.41 %	89.99 %
130°	14.77	914.63	1.48 %	91.46 %
135°	14.77	929.40	1.48 %	92.94 %
140°	14.18	943.59	1.42 %	94.36 %
145°	13.01	956.59	1.30 %	95.66 %
150°	11.48	968.07	1.15 %	96.81 %
155°	9.73	977.80	0.97 %	97.78 %
160°	7.86	985.66	0.79 %	98.57 %
165°	6.09	991.75	0.61 %	99.18 %
170°	4.52	996.27	0.45 %	99.63 %
175°	2.80	999.07	0.28 %	99.91 %
180°	0.93	1000.00	0.09 %	100.00 %

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Isolux (Floor)

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



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