

**Luminaire**

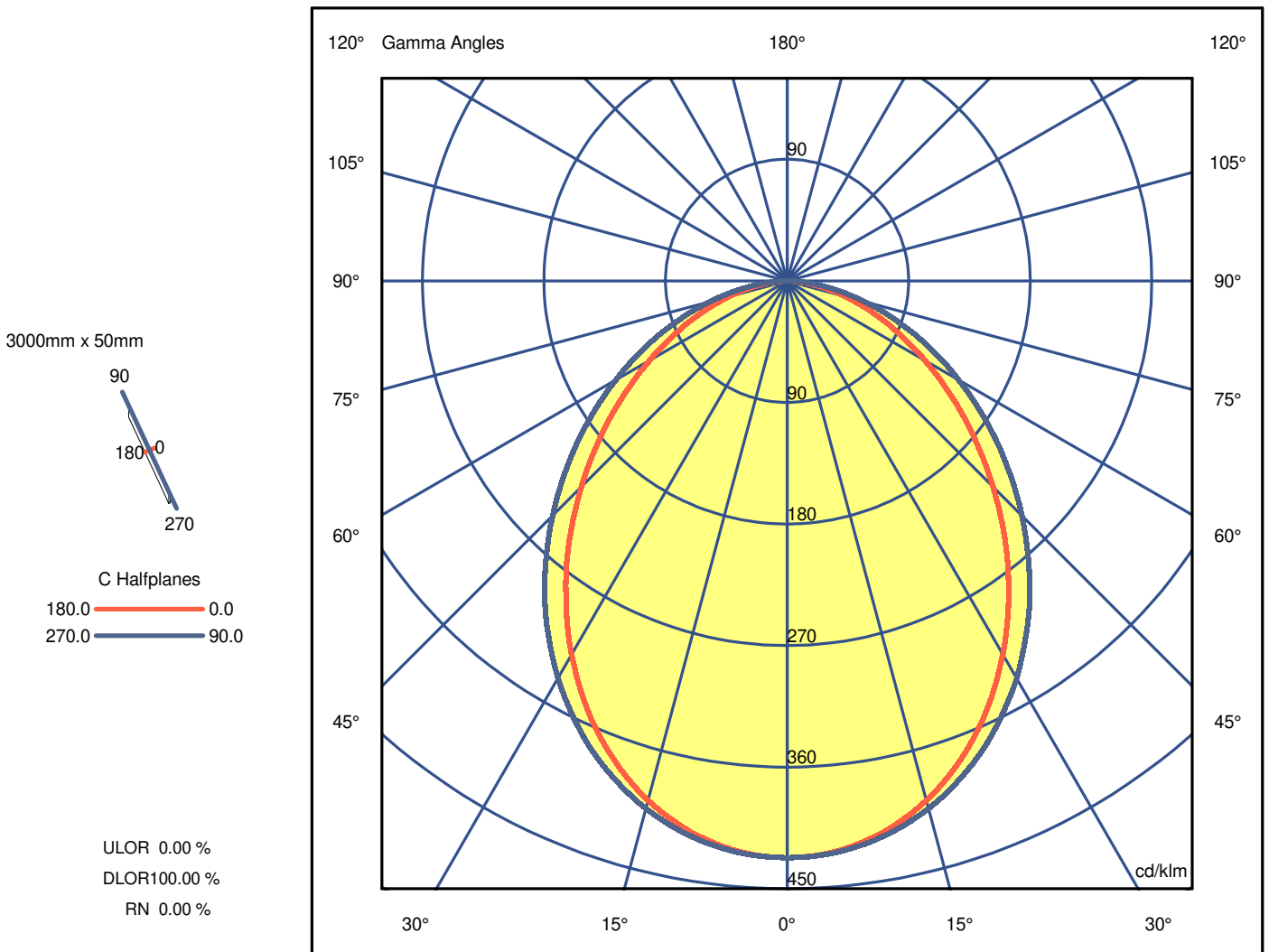
Code 5991  
Name SPA 5991 3500K  
Line SPA

**Measurement**

Code SPA 5991 3500K  
Name SPA 5991 (3000mm)  
Date 15-12-2022

Luminaire Flux	1713 lm	Luminaire Power	26.5 W	Efficacy	64.738 lm/W	Efficiency	100.00%
Source Flux	1713 lm	Maximum value	427.04 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical
Rectangular Luminaire		Length	3000 mm	Width	50 mm	Height	25 mm
Rectangular Luminous Area		Length	3000 mm	Width	40 mm	Height	0 mm
Horizontal Luminous Area		0.120000 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°		0.029031 m2	
Coordinate system		CG		Symmetry Type		Double Symmetrical	
Date		15-12-2022		Maximum Gamma Angle		90	
Measurement Distance		0.00		Measurement Flux		1713 lm	
Operator				Rated Voltage			
Temperature				Rated Current			
Humidity				Photocell			
Notes							

Luminaire Sources						
Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty	
LED	LED	LED				
C.I.E.	53 83 96 100 100	D DIN 5040	1712.98	26.46	1	
F UTE	1.00 D	B NBN	A40 BZ 4			



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**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	427.04	427.04	427.04	427.04	427.04	427.04	427.04
G 2.5	426.18	426.19	426.24	426.30	426.45	426.40	426.37
G 5.0	423.64	423.73	423.83	424.15	424.33	424.49	424.49
G 7.5	419.52	419.68	420.01	420.43	420.91	421.15	421.32
G 10.0	413.91	414.08	414.55	415.45	416.21	416.75	416.89
G 12.5	406.55	407.06	407.76	408.97	410.08	411.02	411.24
G 15.0	398.07	398.49	399.56	401.21	402.80	404.08	404.40
G 17.5	387.93	388.46	389.85	391.93	394.09	395.70	396.20
G 20.0	376.46	377.19	378.89	381.55	384.17	386.47	386.96
G 22.5	363.86	364.69	366.74	369.96	373.15	375.92	376.69
G 25.0	350.09	350.97	353.32	357.24	360.87	364.06	365.19
G 27.5	334.98	336.39	339.01	343.56	347.86	351.63	352.64
G 30.0	319.18	320.51	323.60	328.67	333.78	337.80	339.66
G 32.5	302.97	304.46	307.68	313.18	318.75	323.72	325.04
G 35.0	285.68	287.63	290.80	297.24	303.16	308.60	310.41
G 37.5	268.72	270.14	274.34	280.43	287.16	292.79	295.06
G 40.0	251.03	252.84	256.76	263.68	270.40	277.07	278.73
G 42.5	233.14	235.42	239.08	246.36	253.39	260.36	262.16
G 45.0	215.58	217.57	221.83	228.98	236.57	243.43	245.65
G 47.5	198.18	200.55	204.53	212.06	219.38	226.80	229.09
G 50.0	180.95	183.24	187.43	194.98	202.66	210.15	212.05
G 52.5	164.55	166.80	170.57	178.59	186.18	193.33	195.69
G 55.0	148.13	150.36	154.79	162.30	169.97	176.98	179.12
G 57.5	132.63	135.18	138.65	146.60	153.95	160.85	162.62
G 60.0	117.92	119.96	124.06	131.08	138.35	145.02	146.66
G 62.5	103.93	106.04	109.40	116.50	123.47	129.70	131.04
G 65.0	90.46	92.59	95.70	102.46	108.72	114.82	115.66
G 67.5	78.22	79.88	83.06	88.70	94.99	99.83	101.17
G 70.0	66.16	67.98	70.59	76.12	81.02	86.10	86.39
G 72.5	55.27	56.81	59.19	63.93	68.35	72.66	72.90
G 75.0	44.81	46.28	48.34	52.52	55.97	59.76	59.31
G 77.5	35.40	36.46	37.98	41.44	44.41	47.52	46.80
G 80.0	25.92	26.87	28.12	31.06	33.14	35.62	34.85
G 82.5	17.57	18.23	19.14	21.45	23.21	25.20	24.32
G 85.0	9.27	10.30	10.72	12.55	13.96	15.63	15.05
G 87.5	2.70	4.10	3.74	5.97	5.82	7.68	7.12
G 90.0	0.89	1.10	1.37	1.88	2.63	3.37	3.68

**Luminaire**

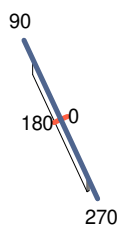
Code 5991  
Name SPA 5991 3500K  
Line SPA

**Measurement**

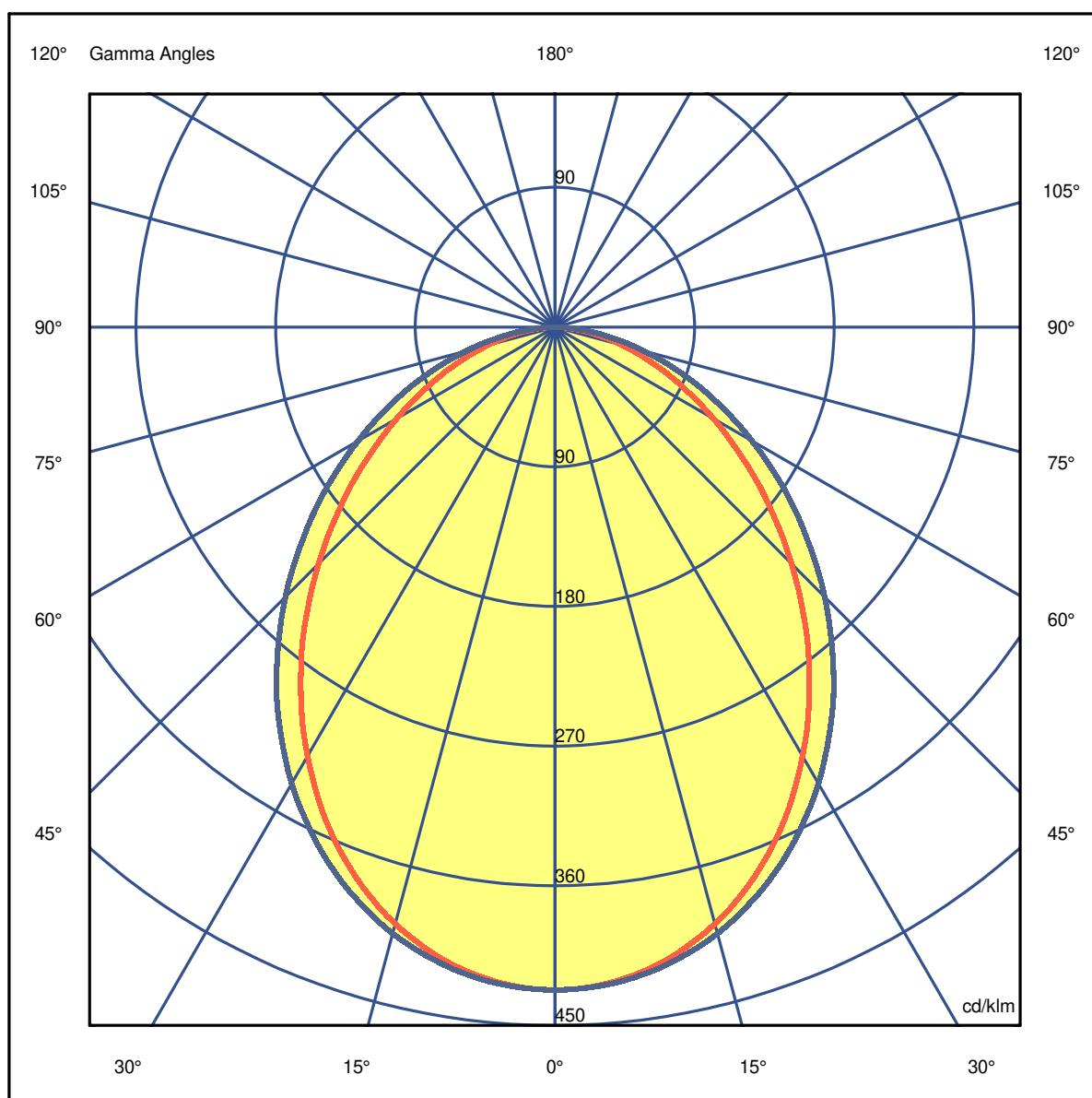
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3000mm x 50mm



C Halfplanes



**Luminaire**

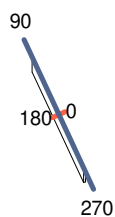
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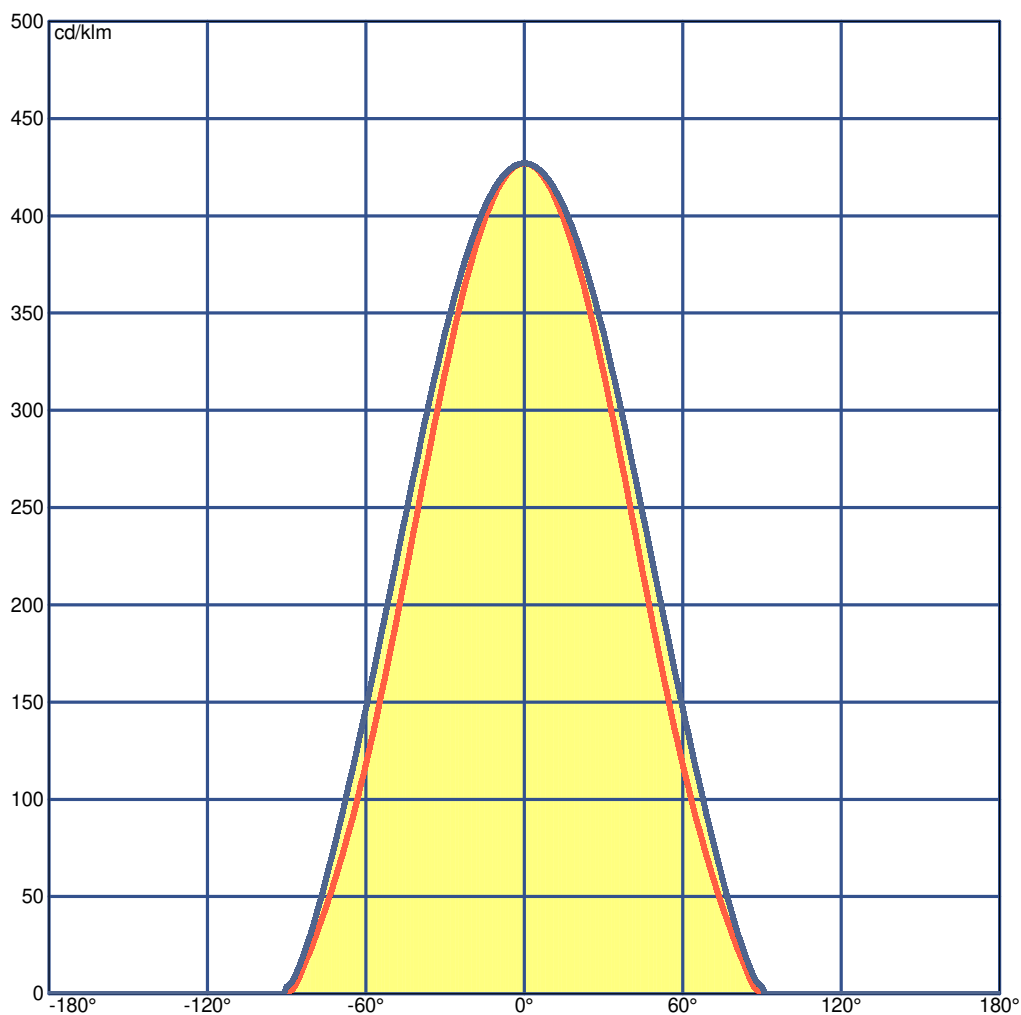
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3000mm x 50mm



C Halfplanes

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										
Room Dimensions	Lateral View					Viewed Endwise				
	x=2H y=2H	x=2H y=3H	x=2H y=4H	x=2H y=6H	x=2H y=8H	x=2H y=12H	x=4H y=2H	x=4H y=3H	x=4H y=4H	x=4H y=6H
x=2H y=2H	16.8	18.0	17.0	18.2	18.4	17.7	18.9	18.0	19.1	19.4
x=2H y=3H	17.9	19.0	18.2	19.3	19.6	19.1	20.2	19.4	20.5	20.7
x=2H y=4H	18.4	19.4	18.7	19.7	20.0	19.7	20.7	20.0	21.0	21.3
x=2H y=6H	18.7	19.7	19.0	20.0	20.3	20.1	21.0	20.4	21.3	21.6
x=2H y=8H	18.8	19.7	19.2	20.1	20.4	20.2	21.1	20.5	21.4	21.8
x=2H y=12H	18.8	19.7	19.2	20.1	20.4	20.3	21.2	20.6	21.5	21.8
x=4H y=2H	17.4	18.5	17.8	18.8	19.0	18.2	19.2	18.5	19.5	19.8
x=4H y=3H	18.8	19.7	19.1	20.0	20.3	19.8	20.7	20.1	21.0	21.3
x=4H y=4H	19.3	20.1	19.7	20.5	20.9	20.5	21.3	20.9	21.6	22.0
x=4H y=6H	19.8	20.5	20.2	20.8	21.3	21.0	21.7	21.4	22.1	22.5
x=4H y=8H	19.9	20.6	20.4	21.0	21.4	21.2	21.9	21.7	22.3	22.7
x=4H y=12H	20.0	20.6	20.4	21.0	21.4	21.3	21.9	21.8	22.3	22.8
x=8H y=4H	19.7	20.3	20.1	20.7	21.1	20.7	21.3	21.1	21.7	22.1
x=8H y=6H	20.2	20.7	20.7	21.2	21.6	21.3	21.9	21.8	22.3	22.7
x=8H y=8H	20.4	20.9	20.9	21.3	21.8	21.6	22.1	22.1	22.5	23.0
x=8H y=12H	20.5	20.9	21.0	21.4	21.9	21.8	22.2	22.3	22.7	23.2
x=12H y=4H	19.7	20.3	20.1	20.7	21.1	20.7	21.3	21.1	21.7	22.1
x=12H y=6H	20.3	20.7	20.8	21.2	21.7	21.4	21.8	21.9	22.3	22.8
x=12H y=8H	20.5	20.9	21.0	21.4	21.9	21.7	22.1	22.2	22.5	23.0

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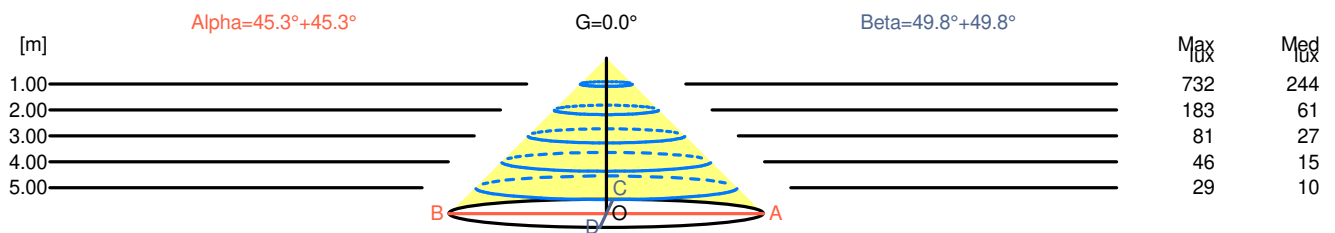
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Source Flux	1713 lm	Maximum value	427.04 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

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	1.01	2.02	3.03	4.04	5.05	OC	1.18	2.37	3.55	4.73	5.91
OB	1.01	2.02	3.03	4.04	5.05	OD	1.18	2.37	3.55	4.73	5.91

	Luminous Intensities [ cd/klm]									
	0	5	15	25	35	45	55	65	75	85
OA	731.51	725.68	681.88	599.69	489.37	369.29	253.75	154.96	76.77	15.88
OB	731.51	725.68	681.88	599.69	489.37	369.29	253.75	154.96	76.77	15.88
OC	731.51	727.14	692.73	625.56	531.73	420.80	306.82	198.12	101.59	25.79
OD	731.51	727.14	692.73	625.56	531.73	420.80	306.82	198.12	101.59	25.79



H[m]	D[m]	Max lux	Med lux	Alpha=45.3°+45.3°	G=0.0	
1.00	2.02	732	244			
2.00	4.04	183	61			
3.00	6.06	81	27			
4.00	8.08	46	15			
5.00	10.10	29	10			

H[m]	D[m]	Max lux	Med lux	Beta=49.8°+49.8°	G=0.0	
1.00	2.37	732	244			
2.00	4.73	183	61			
3.00	7.10	81	27			
4.00	9.46	46	15			
5.00	11.83	29	10			

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Total Flux=1712.98 Luminaire Flux=1712.98

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	0.35	0.43	0.51	0.58	0.63	0.71	0.77	0.80	0.85	0.88	0.94	0.97
RC	4	4	4	4	4	4	4	4	4	4	4	4

Zonal Flux per 1000 Lumen

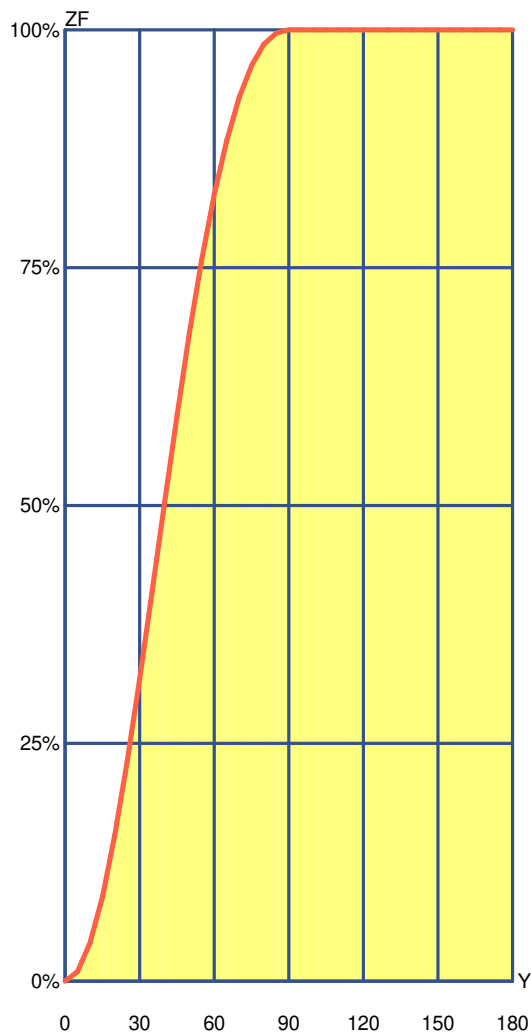
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	40	153	318	503	681	827	929	985	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

CIE Flux Codes

53 83 96 100 100

C.I.E. 4  
D DIN 5040 A40  
F UTE 1.00 D  
B NBN BZ 4  
RN 0.00000 %  
BLF 1.0

LOR 100.00000 %  
ULOR 0.00000 %  
DLOR 100.00000 %  
UFF 0.00000 %  
DFF 100.00000 %  
FFR 0.00000 %



Zonal Flux				
Gamma °	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00 %	0.00 %
5°	10.18	10.18	1.02 %	1.02 %
10°	30.03	40.21	3.00 %	4.02 %
15°	48.44	88.64	4.84 %	8.86 %
20°	64.51	153.16	6.45 %	15.32 %
25°	77.51	230.66	7.75 %	23.07 %
30°	86.85	317.51	8.68 %	31.75 %
35°	92.24	409.75	9.22 %	40.97 %
40°	93.69	503.44	9.37 %	50.34 %
45°	91.41	594.85	9.14 %	59.49 %
50°	85.94	680.80	8.59 %	68.08 %
55°	77.93	758.73	7.79 %	75.87 %
60°	68.03	826.76	6.80 %	82.68 %
65°	56.95	883.71	5.70 %	88.37 %
70°	45.29	929.00	4.53 %	92.90 %
75°	33.59	962.59	3.36 %	96.26 %
80°	22.24	984.83	2.22 %	98.48 %
85°	11.70	996.52	1.17 %	99.65 %
90°	3.48	1000.00	0.35 %	100.00 %
95°	0.00	1000.00	0.00 %	100.00 %
100°	0.00	1000.00	0.00 %	100.00 %
105°	0.00	1000.00	0.00 %	100.00 %
110°	0.00	1000.00	0.00 %	100.00 %
115°	0.00	1000.00	0.00 %	100.00 %
120°	0.00	1000.00	0.00 %	100.00 %
125°	0.00	1000.00	0.00 %	100.00 %
130°	0.00	1000.00	0.00 %	100.00 %
135°	0.00	1000.00	0.00 %	100.00 %
140°	0.00	1000.00	0.00 %	100.00 %
145°	0.00	1000.00	0.00 %	100.00 %
150°	0.00	1000.00	0.00 %	100.00 %
155°	0.00	1000.00	0.00 %	100.00 %
160°	0.00	1000.00	0.00 %	100.00 %
165°	0.00	1000.00	0.00 %	100.00 %
170°	0.00	1000.00	0.00 %	100.00 %
175°	0.00	1000.00	0.00 %	100.00 %
180°	0.00	1000.00	0.00 %	100.00 %

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Isolux (Floor)

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

