Luminaire		Measurem.		Lamp	
Code	FORA PIE U	Code	FORA U	Code	49885
Name	FORA PIE 2x20W T4 fibra+ opal	Name	Lum. FORA 2x20W E26 opal+fibra	Number	2
Line	- BOVER	Date	06-07-2011	Position	Universal

Efficiency	33.63%	Coordinate system	CG	Total Flux	2400.00 lm
Maximum value	89.56 cd/klm	Position	C=75.00 G=175.00	Asymmetrical	

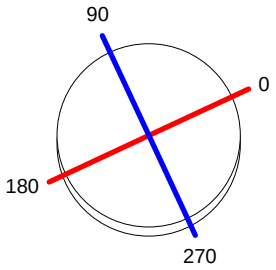
Round Luminaire	Diam.	500 mm	Height	340 mm	
Round Luminous Area	Diam.	500 mm	Height	340 mm	
Horizontal Luminous Area	0.196350 m2		Emitting area on Plane 180°	0.170000 m2	
Emitting area on Plane 0°	0.170000 m2		Emitting area on Plane 270°	0.170000 m2	
Emitting area on Plane 90°	0.170000 m2		Glare area at 76°	0.212452 m2	
Symmetry Type	Asymmetrical		Maximum Gamma Angle	180	
Measurement Distance	6.44		Measurement Flux	2460.00 lm	
Operator	Asselum T2		Source voltage	120.00 V	
Temperature	25.00 °C		Source current		
Humidity	50.00 %		Photocell	PRC	
Notes					

Luminaire Lamps

Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
- BOVER	49885	FLE20TBX/2/SW/CD	1200.00	20.00	2

C.I.E.	44 76 92 34 34	D DIN 5040	D32
F UTE	0.11 E + 0.22 T	B NBN	BZ 5

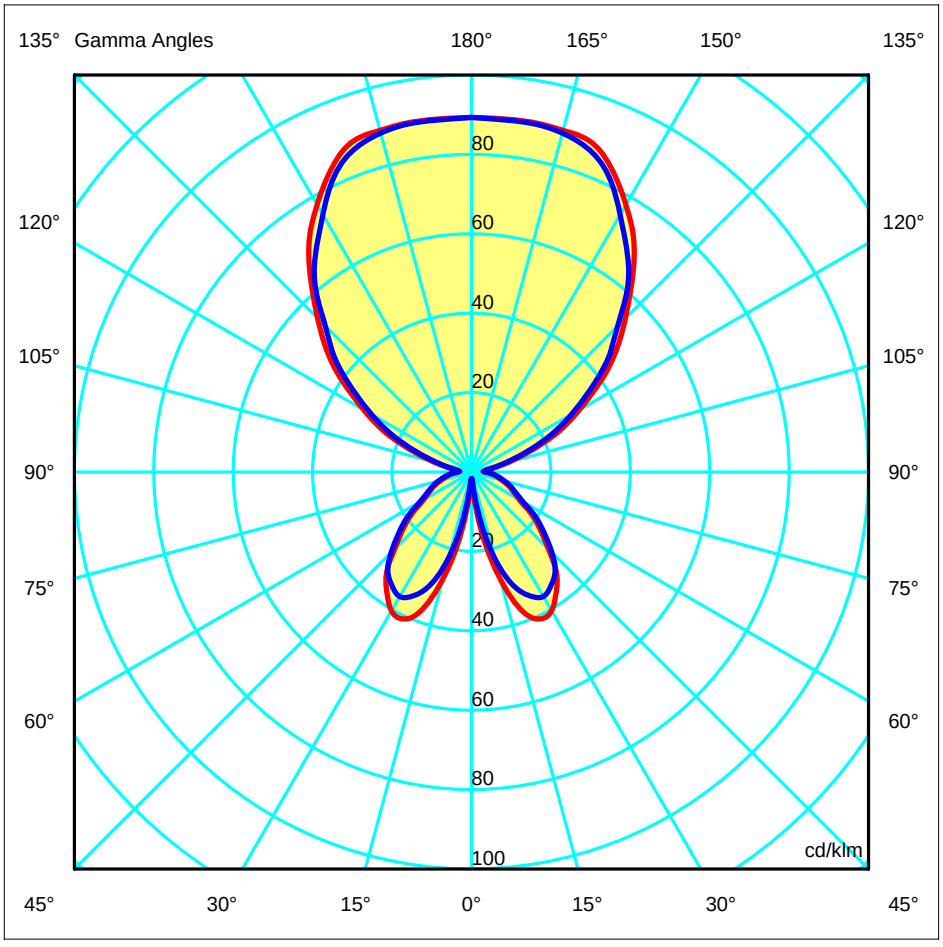
Diam=500mm



C Halfplanes

180.0 — 0.0

270.0 — 90.0



ULOR	22.20 %
DLOR	11.43 %
RN	66.02 %

Luminaire		**Measurem.**		**Lamp**	
Code	FORA PIE U	Code	FORA U	Code	49885
Name	FORA PIE 2x20W T4 fibra+ opal	Name	Lum. FORA 2x20W E26 opal+fibra	Number	2
Line	- BOVER	Date	06-07-2011	Position	Universal

Efficiency	33.63%	Coordinate system	CG	Total Flux	2400.00 lm

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

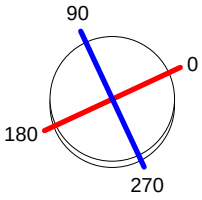
	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00	C 105.00	C 120.00	C 135.00	C 150.00	C 165.00
G 0.0	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
G 5.0	5.48	2.67	2.09	3.03	2.11	2.87	1.79	2.87	2.11	3.03	2.09	2.67
G 10.0	16.37	12.68	11.97	12.74	11.90	12.43	11.67	12.43	11.90	12.74	11.97	12.68
G 15.0	27.89	23.49	23.49	22.52	22.73	22.61	22.42	22.61	22.73	22.52	23.49	23.49
G 20.0	37.22	32.30	32.60	31.93	30.82	31.06	30.22	31.06	30.82	31.93	32.60	32.30
G 25.0	40.85	38.55	39.06	38.28	35.96	35.52	34.35	35.52	35.96	38.28	39.06	38.55
G 30.0	40.36	40.18	40.01	40.28	37.77	37.91	36.21	37.91	37.77	40.28	40.01	40.18
G 35.0	37.09	38.22	38.32	38.46	36.39	37.18	34.88	37.18	36.39	38.46	38.32	38.22
G 40.0	33.36	34.01	34.37	34.30	33.61	33.88	32.79	33.88	33.61	34.30	34.37	34.01
G 45.0	27.38	29.38	29.49	29.22	29.05	28.96	28.61	28.96	29.05	29.22	29.49	29.38
G 50.0	22.67	24.17	24.30	24.17	24.04	24.11	23.91	24.11	24.04	24.17	24.30	24.17
G 55.0	18.36	19.09	19.60	19.46	19.11	19.37	19.68	19.37	19.11	19.46	19.60	19.09
G 60.0	13.88	15.30	15.48	15.27	15.19	15.14	14.99	15.14	15.19	15.27	15.48	15.30
G 65.0	11.66	12.18	12.60	12.38	12.28	12.33	12.24	12.33	12.28	12.38	12.60	12.18
G 70.0	9.86	10.34	10.57	10.48	10.28	10.53	10.46	10.53	10.28	10.48	10.57	10.34
G 75.0	7.89	8.69	8.70	8.69	8.43	8.58	8.58	8.58	8.43	8.69	8.70	8.69
G 80.0	6.41	6.68	6.70	6.74	6.75	6.88	6.86	6.88	6.75	6.74	6.70	6.68
G 85.0	4.84	5.26	5.13	5.22	5.21	5.23	5.36	5.23	5.21	5.22	5.13	5.26
G 90.0	3.21	3.62	3.62	3.59	3.65	3.69	3.72	3.69	3.65	3.59	3.62	3.62
G 95.0	3.09	2.94	3.14	3.07	3.26	3.12	3.27	3.12	3.26	3.07	3.14	2.94
G100.0	5.28	4.14	4.55	4.54	4.55	4.68	4.72	4.68	4.55	4.54	4.55	4.14
G105.0	10.06	8.12	8.32	8.46	8.54	8.56	8.61	8.56	8.54	8.46	8.32	8.12
G110.0	16.28	14.37	14.59	14.27	14.68	14.48	14.49	14.48	14.68	14.27	14.59	14.37
G115.0	24.40	20.67	21.35	21.45	21.51	21.65	22.02	21.65	21.51	21.45	21.35	20.67
G120.0	31.32	28.40	28.74	28.97	28.69	28.84	29.08	28.84	28.69	28.97	28.74	28.40
G125.0	39.52	36.09	36.44	36.71	36.59	36.59	36.82	36.59	36.59	36.71	36.44	36.09
G130.0	47.57	43.62	44.04	44.26	44.70	44.70	45.09	44.70	44.70	44.26	44.04	43.62
G135.0	54.78	52.10	52.30	52.52	52.27	52.24	52.07	52.24	52.27	52.52	52.30	52.10
G140.0	62.95	59.60	59.94	60.71	60.20	60.69	61.25	60.69	60.20	60.71	59.94	59.60
G145.0	71.27	67.64	67.99	68.36	68.08	68.40	68.22	68.40	68.08	68.36	67.99	67.64
G150.0	77.76	75.10	74.95	75.21	75.23	75.40	74.85	75.40	75.23	75.21	74.95	75.10
G155.0	83.92	80.83	81.57	81.64	81.12	81.59	82.01	81.59	81.12	81.64	81.57	80.83
G160.0	88.37	86.18	86.13	86.22	85.83	86.27	86.46	86.27	85.83	86.22	86.13	86.18
G165.0	89.10	88.33	88.46	89.18	88.22	88.78	88.38	88.78	88.22	89.18	88.46	88.33
G170.0	89.45	88.58	88.88	88.74	88.80	89.16	89.14	89.16	88.80	88.74	88.88	88.58
G175.0	89.31	88.97	89.05	89.47	88.85	89.56	89.06	89.56	88.85	89.47	89.05	88.97
G180.0	89.33	89.33	89.33	89.33	89.33	89.33	89.33	89.33	89.33	89.33	89.33	89.33

	C 180.00	C 195.00	C 210.00	C 225.00	C 240.00	C 255.00	C 270.00	C 285.00	C 300.00	C 315.00	C 330.00	C 345.00
G 0.0	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
G 5.0	5.48	2.67	2.09	3.03	2.11	2.87	1.79	2.87	2.11	3.03	2.09	2.67
G 10.0	16.37	12.68	11.97	12.74	11.90	12.43	11.67	12.43	11.90	12.74	11.97	12.68
G 15.0	27.89	23.49	23.49	22.52	22.73	22.61	22.42	22.61	22.73	22.52	23.49	23.49
G 20.0	37.22	32.30	32.60	31.93	30.82	31.06	30.22	31.06	30.82	31.93	32.60	32.30
G 25.0	40.85	38.55	39.06	38.28	35.96	35.52	34.35	35.52	35.96	38.28	39.06	38.55
G 30.0	40.36	40.18	40.01	40.28	37.77	37.91	36.21	37.91	37.77	40.28	40.01	40.18
G 35.0	37.09	38.22	38.32	38.46	36.39	37.18	34.88	37.18	36.39	38.46	38.32	38.22
G 40.0	33.36	34.01	34.37	34.30	33.61	33.88	32.79	33.88	33.61	34.30	34.37	34.01
G 45.0	27.38	29.38	29.49	29.22	29.05	28.96	28.61	28.96	29.05	29.22	29.49	29.38
G 50.0	22.67	24.17	24.30	24.17	24.04	24.11	23.91	24.11	24.04	24.17	24.30	24.17
G 55.0	18.36	19.09	19.60	19.46	19.11	19.37	19.68	19.37	19.11	19.46	19.60	19.09
G 60.0	13.88	15.30	15.48	15.27	15.19	15.14	14.99	15.14	15.19	15.27	15.48	15.30
G 65.0	11.66	12.18	12.60	12.38	12.28	12.33	12.24	12.33	12.28	12.38	12.60	12.18
G 70.0	9.86	10.34	10.57	10.48	10.28	10.53	10.46	10.53	10.28	10.48	10.57	10.34
G 75.0	7.89	8.69	8.70	8.69	8.43	8.58	8.58	8.58	8.43	8.69	8.70	8.69
G 80.0	6.41	6.68	6.70	6.74	6.75	6.88	6.86	6.88	6.75	6.74	6.70	6.68
G 85.0	4.84	5.26	5.13	5.22	5.21	5.23	5.36	5.23	5.21	5.22	5.13	5.26
G 90.0	3.21	3.62	3.62	3.59	3.65	3.69	3.72	3.69	3.65	3.59	3.62	3.62
G 95.0	3.09	2.94	3.14	3.07	3.26	3.12	3.27	3.12	3.26	3.07	3.14	2.94
G100.0	5.28	4.14	4.55	4.54	4.55	4.68	4.72	4.68	4.55	4.54	4.55	4.14
G105.0	10.06	8.12	8.32	8.46	8.54	8.56	8.61	8.56	8.54	8.46	8.32	8.12
G110.0	16.28	14.37	14.59	14.27	14.68	14.48	14.49	14.48	14.68	14.27	14.59	14.37
G115.0	24.40	20.67	21.35	21.45	21.51	21.65	22.02	21.65	21.51	21.45	21.35	20.67
G120.0	31.32	28.40	28.74	28.97	28.69	28.84	29.08	28.84	28.69	28.97	28.74	28.40
G125.0	39.52	36.09	36.44	36.71	36.59	36.59	36.82	36.59	36.59	36.71	36.44	36.09
G130.0	47.57	43.62	44.04	44.26	44.70	44.70	45.09	44.70	44.70	44.26	44.04	43.62
G135.0	54.78	52.10	52.30	52.52	52.27	52.24	52.07	52.24	52.27	52.52	52.30	52.10
G140.0	62.95	59.60	59.94	60.71	60.20	60.69	61.25	60.69	60.20	60.71	59.94	59.60
G145.0	71.27	67.64	67.99	68.36	68.08	68.40	68.22	68.40	68.08	68.36	67.99	67.64
G150.0	77.76	75.10	74.95	75.21	75.23	75.40	74.85	75.40	75.23	75.21	74.95	75.10
G155.0	83.92	80.83	81.57	81.64	81.12	81.59	82.01	81.59	81.12	81.64	81.57	80.83
G160.0	88.37	86.18	86.13	86.22	85.83	86.27	86.46	86.27	85.83	86.22	86.13	86.18
G165.0	89.10	88.33	88.46	89.18	88.22	88.78	88.38	88.78	88.22	89.18	88.46	88.33
G170.0	89.45	88.58	88.88	88.74	88.80	89.16	89.14	89.16	88.80	88.74	88.88	88.58
G175.0	89.31	88.97	89.05	89.47	88.85	89.56	89.06	89.56	88.85	89.47	89.05	88.97
G180.0	89.33	89.33	89.33	89.33	89.33	89.33	89.33	89.33	89.33	89.33	89.33	89.33

Luminaire		Measurem.		Lamp	
Code	FORA PIE U	Code	FORA U	Code	49885
Name	FORA PIE 2x20W T4 fibra+ opal	Name	Lum. FORA 2x20W E26 opal+fibra	Number	2
Line	- BOVER	Date	06-07-2011	Position	Universal

Efficiency	33.63%	Coordinate system	CG	Total Flux	2400.00 lm

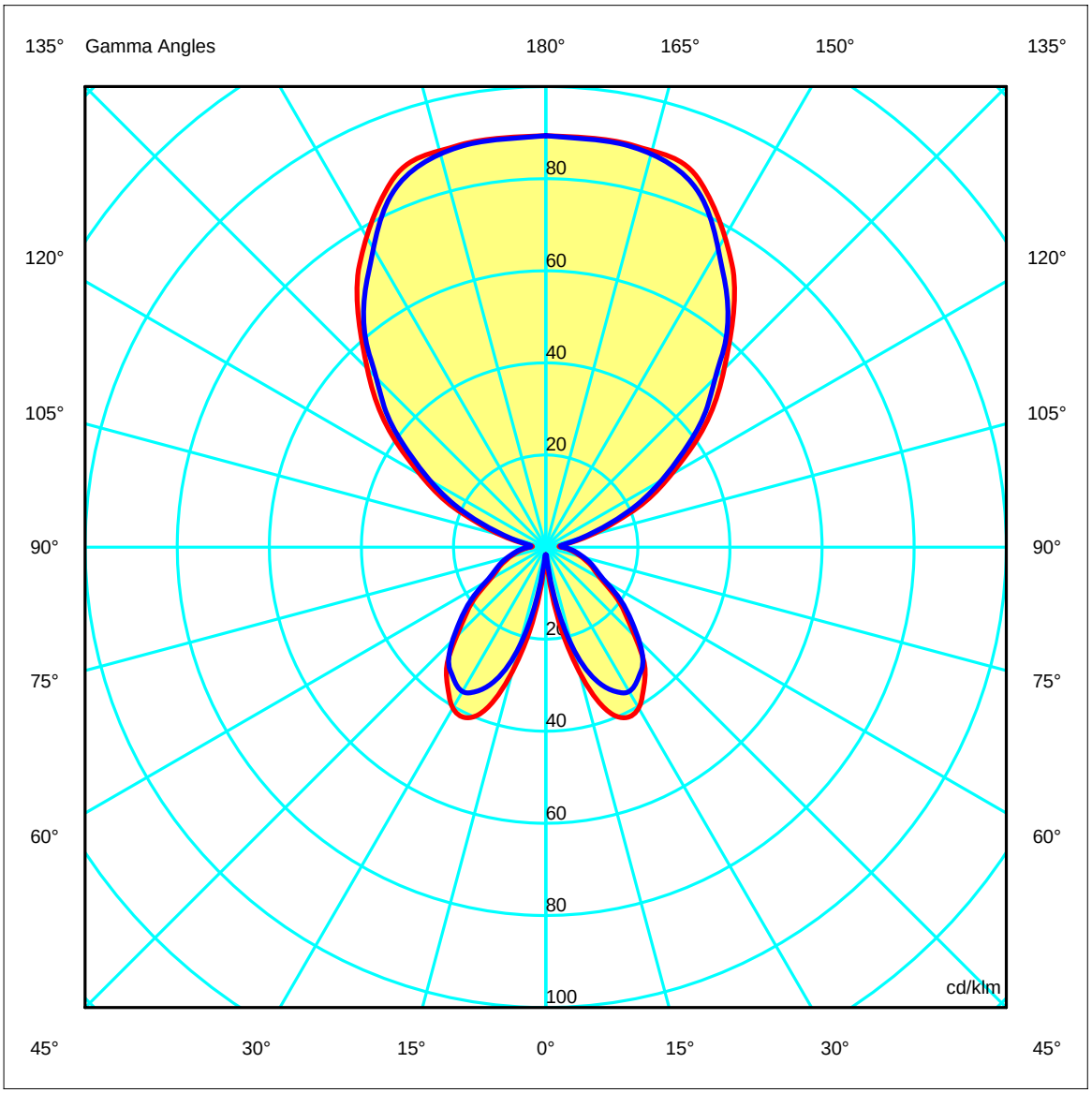
Diam=500mm



C Halfplanes

180.0 — 0.0

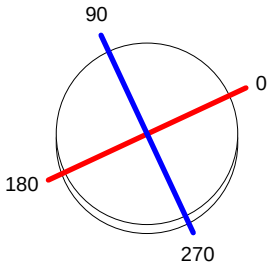
270.0 — 90.0



Luminaire		Measurem.		Lamp	
Code	FORA PIE U	Code	FORA U	Code	49885
Name	FORA PIE 2x20W T4 fibra+ opal	Name	Lum. FORA 2x20W E26 opal+fibra	Number	2
Line	- BOVER	Date	06-07-2011	Position	Universal

Efficiency	33.63%	Coordinate system	CG	Total Flux	2400.00 lm

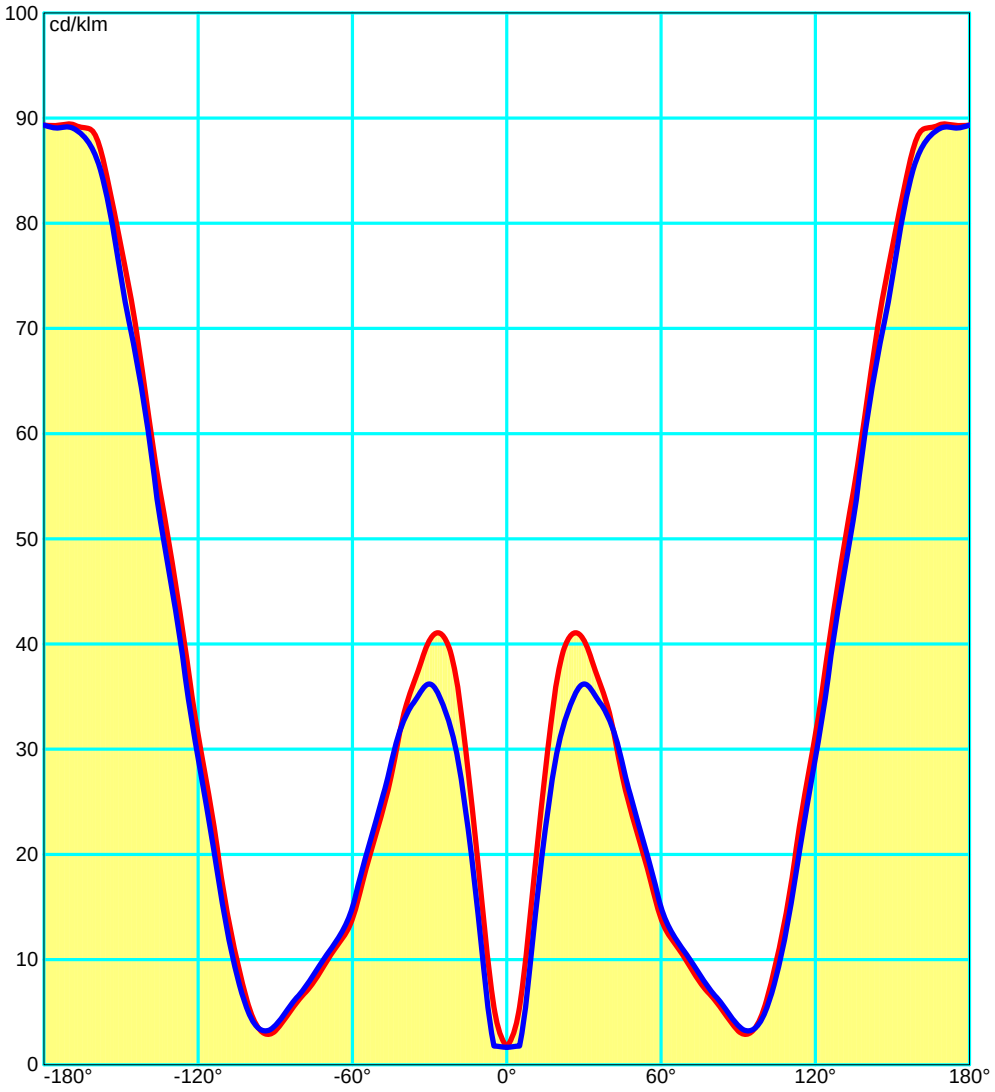
Diam=500mm



C Halfplanes

180.0 0.0

270.0 90.0



Luminaire		Measurem.		Lamp	
Code	FORA PIE U	Code	FORA U	Code	49885
Name	FORA PIE 2x20W T4 fibra+ opal	Name	Lum. FORA 2x20W E26 opal+fibra	Number	2
Line	- BOVER	Date	06-07-2011	Position	Universal

Efficiency	33.63%	Coordinate system	CG	Total Flux	2400.00 lm

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
WorkingPlane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
RoomDimensions	ViewedCrosswise					ViewedEndwise				
x=2H y=2H	1.5	2.3	2.5	3.2	4.7	1.5	2.3	2.5	3.3	4.7
x=2H y=3H	2.5	3.1	3.5	4.1	5.6	2.5	3.1	3.6	4.2	5.6
x=2H y=4H	2.9	3.5	4.0	4.6	6.1	3.0	3.6	4.1	4.6	6.1
x=2H y=6H	3.2	3.8	4.3	4.9	6.4	3.4	3.9	4.5	5.0	6.4
x=2H y=8H	3.4	3.9	4.5	5.0	6.6	3.6	4.1	4.7	5.2	6.6
x=2H y=12H	3.5	4.0	4.6	5.1	6.8	3.7	4.2	4.8	5.3	6.8
x=4H y=2H	1.9	2.4	2.9	3.5	4.9	1.9	2.4	2.9	3.5	4.9
x=4H y=3H	3.0	3.5	4.1	4.6	6.0	3.0	3.5	4.1	4.6	6.0
x=4H y=4H	3.6	4.0	4.7	5.1	6.6	3.6	4.0	4.7	5.1	6.6
x=4H y=6H	4.1	4.5	5.2	5.6	7.1	4.2	4.5	5.3	5.6	7.1
x=4H y=8H	4.3	4.6	5.4	5.7	7.3	4.4	4.7	5.5	5.8	7.3
x=4H y=12H	4.5	4.8	5.6	5.9	7.5	4.6	4.9	5.7	6.0	7.5
x=8H y=4H	3.7	4.1	4.9	5.2	6.7	3.8	4.1	4.9	5.2	6.7
x=8H y=6H	4.4	4.7	5.6	5.8	7.4	4.5	4.8	5.6	5.9	7.4
x=8H y=8H	4.7	5.0	5.9	6.1	7.8	4.8	5.1	6.0	6.2	7.8
x=8H y=12H	5.1	5.3	6.2	6.4	8.1	5.2	5.4	6.3	6.5	8.1
x=12H y=4H	3.7	4.0	4.9	5.1	6.7	3.8	4.1	4.9	5.2	6.7
x=12H y=6H	4.5	4.7	5.6	5.8	7.5	4.5	4.8	5.7	5.9	7.5
x=12H y=8H	4.8	5.0	6.0	6.2	7.8	4.9	5.1	6.1	6.3	7.8

Luminaire		Measurem.		Lamp	
Code	FORA PIE U	Code	FORA U	Code	49885
Name	FORA PIE 2x20W T4 fibra+ opal	Name	Lum. FORA 2x20W E26 opal+fibra	Number	2
Line	- BOVER	Date	06-07-2011	Position	Universal

Efficiency	33.63%	Coordinate system	CG	Total Flux	2400.00 lm

Total Flux=2400.00 Luminaire Flux=807.13

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	0.28	0.37	0.44	0.51	0.57	0.65	0.71	0.75	0.80	0.83	0.90	0.94
RC	6	5	5	5	5	6	6	6	6	6	6	6

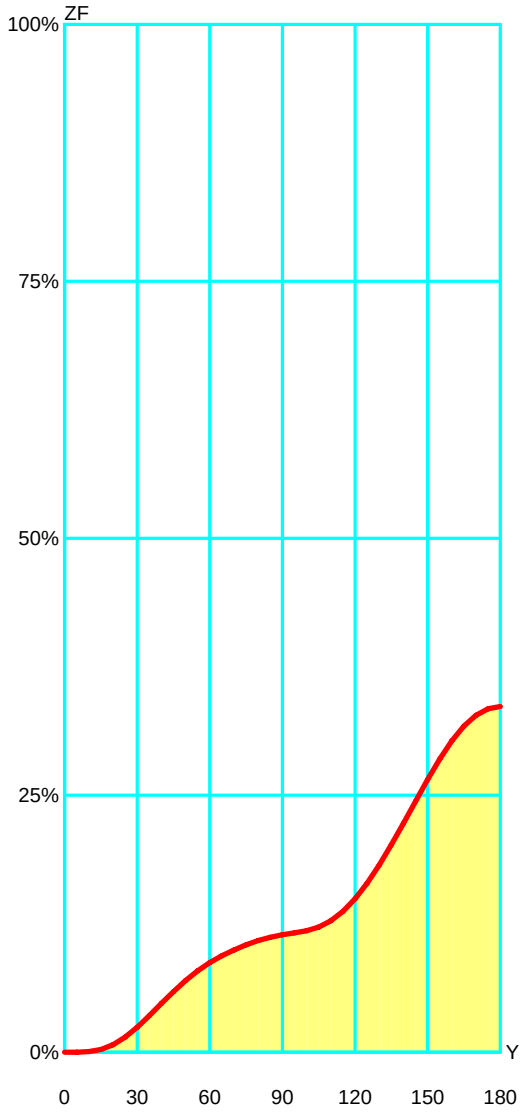
Zonal Flux per 1000 Lumen

Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	1	7	24	47	70	87	100	109	114	118	128	149	182	223	265	303	328	336

CIE Flux Codes

44 76 92 34 34

C.I.E.	6/5/5/5/5/6/6/6/6/6/6	LOR	33.63058 %
D DIN 5040	D32	ULOR	22.20341 %
F UTE	0.11 E + 0.22 T	DLOR	11.42717 %
B NBN	BZ 5	UFF	66.02148 %
RN	66.02148 %	DFF	33.97852 %
BLF	1.0	FFR	194.30354 %



Zonal Flux				
Gamma °	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00%	0.00 %
5°	0.05	0.05	0.02 %	0.02 %
10°	0.55	0.60	0.16 %	0.18 %
15°	2.13	2.73	0.63 %	0.81 %
20°	4.57	7.30	1.36 %	2.17 %
25°	7.30	14.60	2.17 %	4.34 %
30°	9.69	24.29	2.88 %	7.22 %
35°	11.26	35.55	3.35 %	10.57 %
40°	11.90	47.45	3.54 %	14.11 %
45°	11.64	59.09	3.46 %	17.57 %
50°	10.72	69.81	3.19 %	20.76 %
55°	9.41	79.22	2.80 %	23.56 %
60°	7.95	87.17	2.37 %	25.92 %
65°	6.67	93.84	1.98 %	27.90 %
70°	5.74	99.58	1.71 %	29.61 %
75°	4.95	104.54	1.47 %	31.08 %
80°	4.09	108.63	1.22 %	32.30 %
85°	3.24	111.86	0.96 %	33.26 %
90°	2.41	114.27	0.72 %	33.98 %
95°	1.84	116.11	0.55 %	34.53 %
100°	2.09	118.20	0.62 %	35.15 %
105°	3.51	121.72	1.04 %	36.19 %
110°	6.06	127.78	1.80 %	37.99 %
115°	9.18	136.96	2.73 %	40.72 %
120°	12.30	149.26	3.66 %	44.38 %
125°	15.20	164.46	4.52 %	48.90 %
130°	17.69	182.15	5.26 %	54.16 %
135°	19.62	201.77	5.83 %	60.00 %
140°	20.93	222.70	6.22 %	66.22 %
145°	21.51	244.20	6.40 %	72.61 %
150°	21.17	265.37	6.29 %	78.91 %
155°	19.87	285.24	5.91 %	84.81 %
160°	17.62	302.85	5.24 %	90.05 %
165°	14.42	317.27	4.29 %	94.34 %
170°	10.53	327.80	3.13 %	97.47 %
175°	6.37	334.17	1.89 %	99.37 %
180°	2.13	336.31	0.63 %	100.00 %

Luminaire		Measurem.		Lamp	
Code	FORA PIE U	Code	FORA U	Code	49885
Name	FORA PIE 2x20W T4 fibra+ opal	Name	Lum. FORA 2x20W E26 opal+fibra	Number	2
Line	- BOVER	Date	06-07-2011	Position	Universal

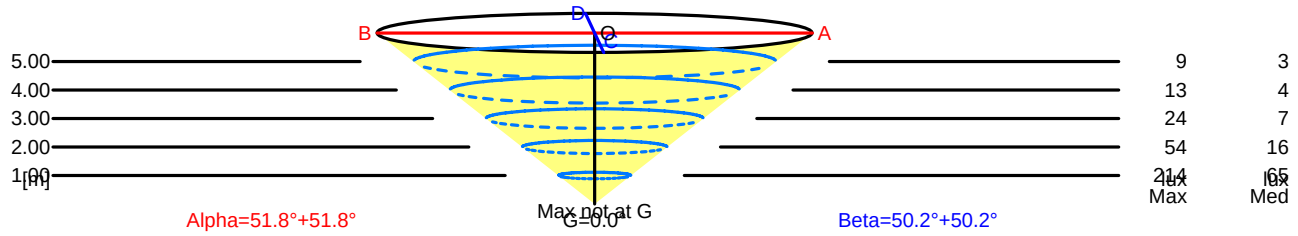
Efficiency	33.63%	Coordinate system	CG	Total Flux	2400.00 lm

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	1.27	2.55	3.82	5.09	6.36	OC	1.20	2.40	3.61	4.81	6.01
OB	1.27	2.55	3.82	5.09	6.36	OD	1.20	2.40	3.61	4.81	6.01

Luminous Intensities [cd/klm]

	0	5	15	25	35	45	55	65	75	85
OA	214.39	214.33	213.84	201.40	171.04	131.48	94.84	58.56	24.15	7.41
OB	214.39	214.33	213.84	201.40	171.04	131.48	94.84	58.56	24.15	7.41
OC	214.39	213.74	212.10	196.82	163.72	124.97	88.36	52.85	20.65	7.84
OD	214.39	213.74	212.10	196.82	163.72	124.97	88.36	52.85	20.65	7.84



5.00	12.73	9	3	
4.00	10.18	13	4	
3.00	7.64	24	7	
2.00	5.09	54	16	
1.00	2.55	214	65	
H[m]	D[m]	Max lux	Med lux	Alpha=51.8°+51.8° Max not at G G=0.0

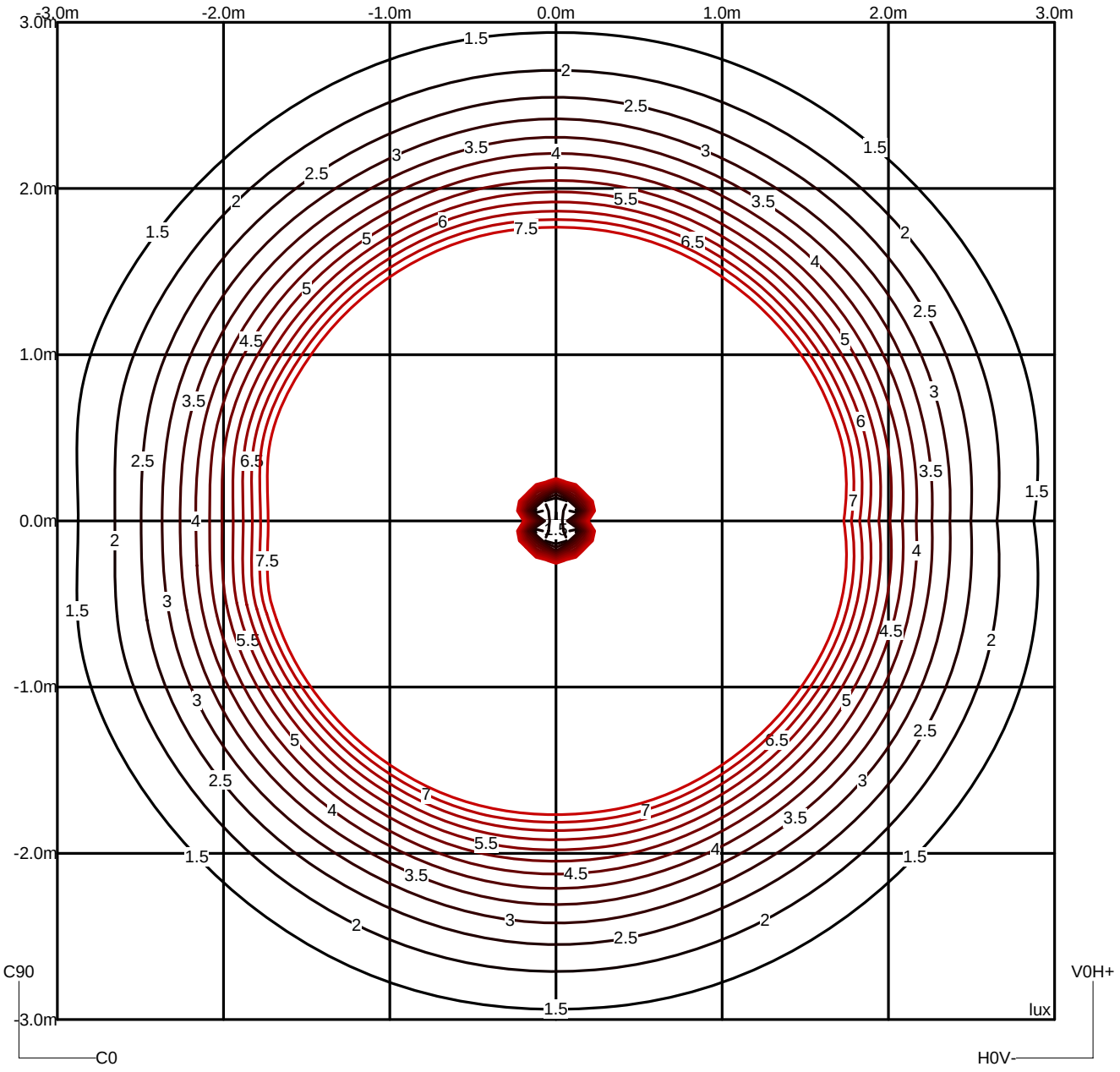
5.00	12.02	9	3	
4.00	9.62	13	4	
3.00	7.21	24	7	
2.00	4.81	54	16	
1.00	2.40	214	65	
H[m]	D[m]	Max lux	Med lux	Beta=50.2°+50.2° Max not at G G=0.0

Luminaire		Measurem.		Lamp	
Code	FORA PIE U	Code	FORA U	Code	49885
Name	FORA PIE 2x20W T4 fibra+ opal	Name	Lum. FORA 2x20W E26 opal+fibra	Number	2
Line	- BOVER	Date	06-07-2011	Position	Universal

Efficiency	33.63%	Coordinate system	CG	Total Flux	2400.00 lm

Isolux (Floor)

Luminaire position X=0.00m Y=0.00m Z=1.65m



Luminaire		**Measurem.**		**Lamp**	
Code	FORA PIE U	Code	FORA U	Code	49885
Name	FORA PIE 2x20W T4 fibra+ opal	Name	Lum. FORA 2x20W E26 opal+fibra	Number	2
Line	- BOVER	Date	06-07-2011	Position	Universal
Efficiency	33.63%	Coordinate system	CG	Total Flux	2400.00 lm

Utilizations CIE

Mounting Direct Normalization Normalised Suspension Ratio 0.3 Standard CIE Settings

Ceiling

K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000
0.60	222	199	211	190	189	181	173	147	168	143	158	120	152	103	134	128	113	124	99	107	104	90	83
0.80	244	223	227	209	212	200	194	169	185	163	175	139	167	122	152	145	131	140	116	125	121	106	99
1.00	259	241	236	221	229	211	209	187	197	177	186	153	178	136	166	158	145	153	130	138	134	119	111
1.25	272	256	243	230	244	221	224	204	207	189	196	167	188	150	178	171	158	165	144	151	147	132	123
1.50	281	267	247	236	254	227	236	217	214	198	204	177	195	161	187	180	169	174	154	161	157	143	133
2.00	294	282	251	243	269	234	252	236	223	210	214	192	206	177	199	193	183	187	170	176	171	158	148
2.50	302	292	253	246	279	239	263	249	229	218	220	202	213	188	208	201	193	196	181	186	182	169	159
3.00	307	299	254	248	286	241	271	259	233	223	225	209	218	196	213	208	200	203	190	193	189	178	167
4.00	314	308	255	251	295	245	282	272	237	230	231	218	225	207	221	216	210	212	201	203	200	189	178
5.00	319	314	255	252	300	246	290	281	240	235	235	224	230	215	226	221	217	218	209	210	207	197	185
10.00	328	325	255	254	312	249	306	301	246	243	243	237	239	231	236	233	230	231	226	224	222	215	202
20.00	333	331	255	254	318	251	315	312	249	247	247	244	245	241	241	239	238	238	235	232	231	225	211

Wall

K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000
0.60	120	108	106	96	102	91	80	68	73	62	61	46	53	36	57	48	43	42	34	39	34	29	25
0.80	140	128	121	111	119	104	97	84	87	75	74	58	65	46	67	58	52	52	42	47	42	35	29
1.00	155	143	130	121	132	113	110	97	96	85	84	67	75	55	75	66	60	59	49	53	48	39	32
1.25	168	158	138	130	144	120	123	110	105	95	93	77	84	64	82	74	67	67	56	59	53	43	35
1.50	179	168	144	137	154	126	133	121	112	102	101	85	91	72	88	80	73	73	62	63	58	46	37
2.00	192	183	150	144	166	133	148	136	120	112	110	96	102	83	95	88	82	81	72	69	64	50	40
2.50	201	193	154	149	174	137	158	147	126	119	117	104	109	92	100	93	88	88	78	73	69	53	42
3.00	207	200	157	153	180	140	166	156	130	124	122	110	115	99	103	98	93	92	84	76	73	56	43
4.00	217	211	162	158	190	145	177	169	137	132	130	120	124	110	109	104	100	100	92	82	79	60	46
5.00	224	219	165	162	196	149	185	178	142	137	136	127	130	118	114	110	106	106	99	86	83	63	49
10.00	241	238	175	174	214	159	207	202	155	153	152	146	148	141	127	124	122	121	117	99	97	74	58
20.00	254	253	184	183	226	168	222	220	166	165	164	161	162	157	137	136	134	134	131	109	108	83	66

Working Pl.

K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000
0.60	140	127	130	119	119	112	93	81	89	78	74	59	63	47	70	59	54	51	43	49	43	37	32
0.80	173	159	160	148	148	138	120	106	115	102	98	80	86	65	90	78	72	69	59	64	57	48	42
1.00	200	186	182	170	171	158	143	128	136	122	119	99	106	82	107	95	87	85	73	77	70	58	50
1.25	225	212	203	192	194	177	167	151	156	142	140	118	127	101	123	111	103	102	89	90	83	67	59
1.50	244	232	218	208	211	192	185	169	172	159	156	135	144	117	136	125	116	116	102	100	93	75	65
2.00	272	261	240	231	236	212	213	198	195	183	181	160	169	143	155	145	137	136	123	115	109	86	74
2.50	291	281	254	246	253	226	232	218	211	200	198	179	187	162	168	159	151	151	138	126	121	94	81
3.00	304	295	264	257	266	235	247	234	222	212	210	193	200	177	177	169	162	162	149	134	129	100	85
4.00	322	314	276	271	282	248	266	255	237	228	227	212	218	198	190	183	177	177	166	144	140	107	91
5.00	333	326	284	279	292	255	278	269	246	239	238	225	230	212	198	192	187	186	177	151	147	112	95
10.00	357	353	300	297	315	272	307	301	266	262	261	253	256	245	216	212	209	209	202	167	164	123	103
20.00	370	368	308	307	327	280	323	320	277	275	275	270	272	266	226	224	222	222	218	176	174	129	108

LM53 SHR C0-C180: 4.338 SHR C90-C270: 4.440 SHR Square: 1.380

Luminaire		Measurem.		Lamp	
Code	FORA PIE U	Code	FORA U	Code	49885
Name	FORA PIE 2x20W T4 fibra+ opal	Name	Lum. FORA 2x20W E26 opal+fibra	Number	2
Line	- BOVER	Date	06-07-2011	Position	Universal

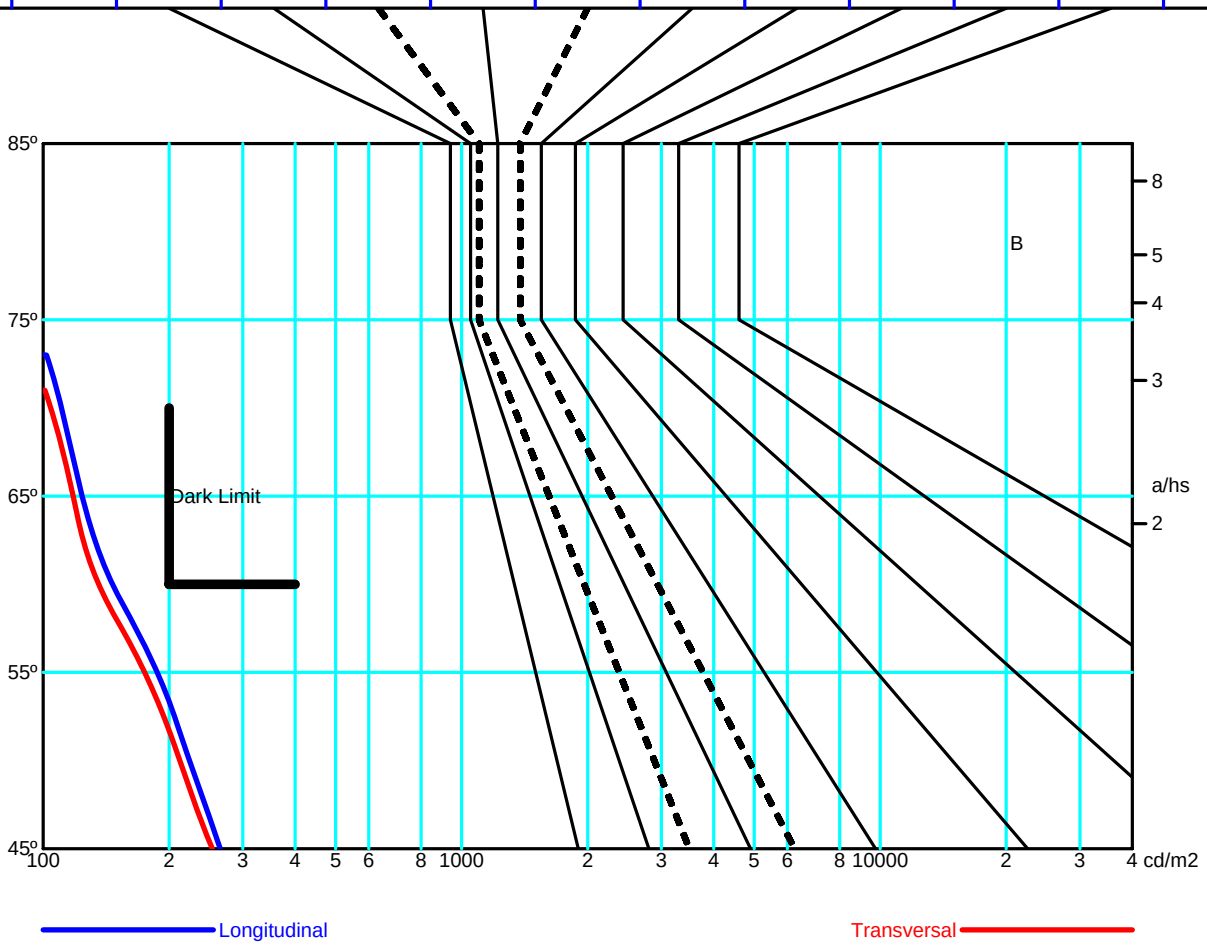
Efficiency	33.63%	Coordinate system	CG	Total Flux	2400.00 lm

Average Luminance [cd/m²]

	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	254	212	175	136	118	104	88	76	62	---
90.0°	265	224	188	147	124	111	96	82	69	---

Flush mounted or transveral view

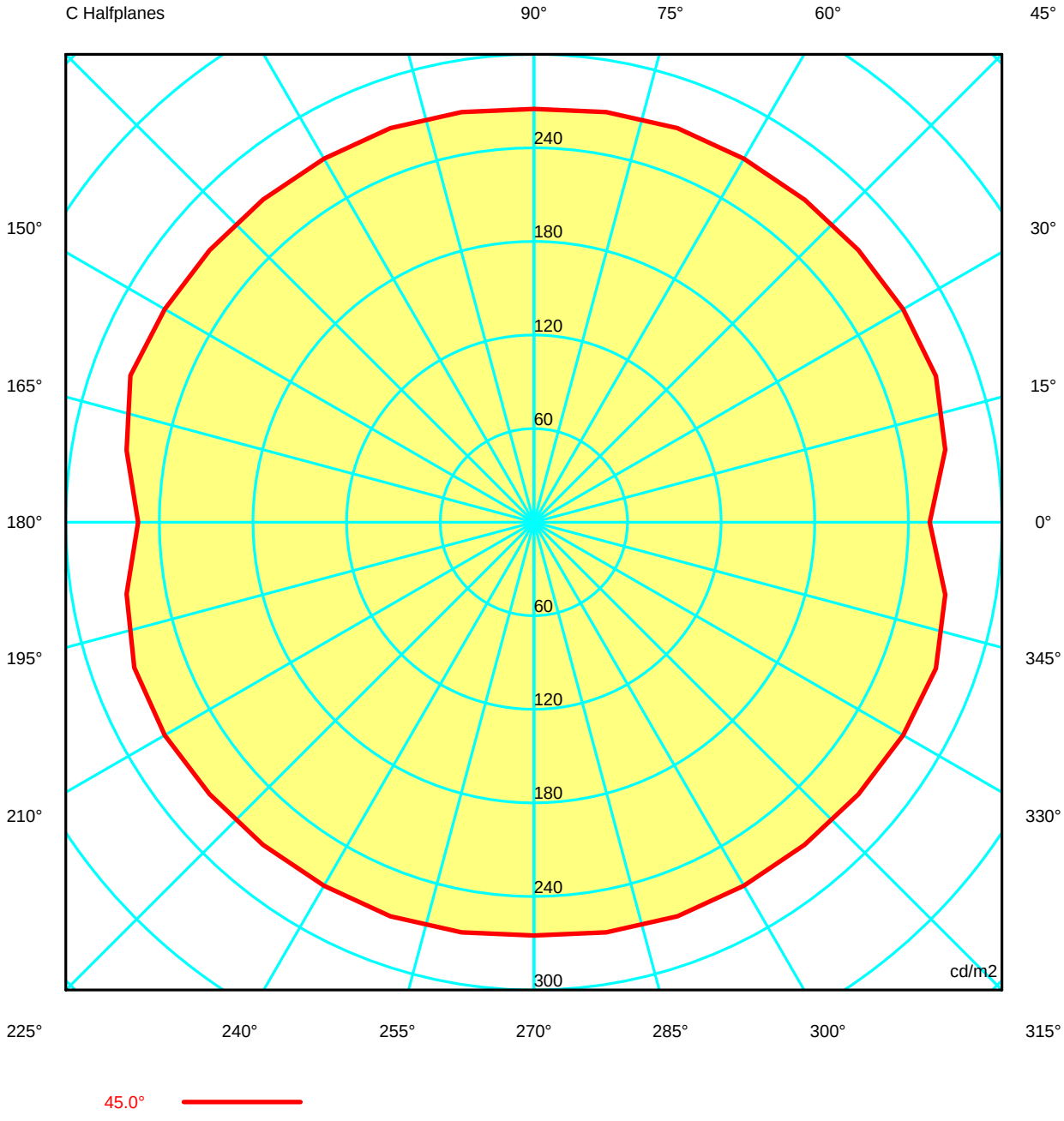
		Illumination(lx)										
A	A	2000	1000	750	500		<300					1.15
B	1		2000	1500	1000	750	500	<300				1.5
C					2000		1000	500	<300			1.85
D	2						2000	1000	500	<300		2.2
E	3							2000	1000	500	<300	2.55



Luminaire		Measurem.		Lamp	
Code	FORA PIE U	Code	FORA U	Code	49885
Name	FORA PIE 2x20W T4 fibra+ opal	Name	Lum. FORA 2x20W E26 opal+fibra	Number	2
Line	- BOVER	Date	06-07-2011	Position	Universal

Efficiency	33.63%	Coordinate system	CG	Total Flux	2400.00 lm

Luminance



Luminaire		Measurem.		Lamp	
Code	FORA PIE U	Code	FORA U	Code	49885
Name	FORA PIE 2x20W T4 fibra+ opal	Name	Lum. FORA 2x20W E26 opal+fibra	Number	2
Line	- BOVER	Date	06-07-2011	Position	Universal

Efficiency	33.63%	Coordinate system	CG	Total Flux	2400.00 lm

Luminance cd/m2 **Table 1/3**

	C 0.00	C 10.00	C 20.00	C 30.00	C 40.00	C 50.00	C 60.00	C 70.00	C 80.00	C 90.00	C 100.00	C 110.00	C 120.00
G 0.0	20.23	20.23	20.23	20.23	20.23	20.23	20.23	20.23	20.23	20.23	20.23	20.23	20.23
G 5.0	62.48	39.26	24.81	23.86	32.76	31.55	24.09	30.93	29.18	20.42	29.17	30.95	24.09
G 10.0	176.26	147.16	130.21	128.93	135.89	134.66	128.14	132.48	131.51	125.63	131.50	132.50	128.14
G 15.0	286.52	251.50	241.28	241.30	234.73	231.98	233.42	233.21	231.26	230.31	231.24	233.25	233.42
G 20.0	368.15	330.38	320.48	322.48	320.04	310.98	304.87	307.10	304.48	298.86	304.46	307.14	304.87
G 25.0	392.44	374.91	370.36	375.32	373.14	359.97	345.53	342.65	337.07	330.00	337.06	342.67	345.53
G 30.0	379.83	379.01	376.77	376.52	378.21	371.61	355.37	356.76	351.35	340.72	351.35	356.76	355.37
G 35.0	344.56	352.70	355.58	355.98	359.27	350.48	338.04	344.71	338.42	324.04	338.42	344.70	338.04
G 40.0	308.33	312.57	315.74	317.66	318.23	314.52	310.63	313.28	309.65	303.06	309.65	313.28	310.63
G 45.0	253.67	267.64	274.11	273.24	271.46	269.98	269.10	268.92	267.03	265.03	267.04	268.91	269.10
G 50.0	212.16	222.74	227.76	227.47	226.67	225.68	225.00	225.62	224.99	223.74	224.99	225.61	225.00
G 55.0	174.98	179.67	184.01	186.77	186.46	184.04	182.08	183.20	185.93	187.52	185.94	183.20	182.08
G 60.0	135.78	146.09	151.37	151.38	150.00	148.94	148.57	148.37	147.48	146.64	147.48	148.36	148.57
G 65.0	118.00	121.47	125.22	127.59	126.38	124.61	124.28	124.76	124.55	123.97	124.55	124.76	124.28
G 70.0	104.27	107.84	110.54	111.85	111.59	109.85	108.70	110.53	111.38	110.68	111.38	110.53	108.70
G 75.0	88.02	94.87	97.02	97.13	97.24	95.97	94.08	95.19	95.76	95.79	95.98	95.03	94.08
G 80.0	76.31	78.81	79.64	79.78	80.08	80.25	80.45	81.51	81.85	81.70	81.85	81.51	80.45
G 85.0	62.27	66.63	67.46	66.01	66.80	67.13	67.01	66.90	67.95	68.99	67.95	67.18	67.01
G 90.0	45.31	49.68	51.06	51.10	50.82	50.90	51.53	51.94	52.27	52.47	52.27	51.93	51.53

Luminaire		Measurem.		Lamp	
Code	FORA PIE U	Code	FORA U	Code	49885
Name	FORA PIE 2x20W T4 fibra+ opal	Name	Lum. FORA 2x20W E26 opal+fibra	Number	2
Line	- BOVER	Date	06-07-2011	Position	Universal

Efficiency	33.63%	Coordinate system	CG	Total Flux	2400.00 lm

Luminance cd/m2 **Table 2/3**

	C 130.00	C 140.00	C 150.00	C 160.00	C 170.00	C 180.00	C 190.00	C 200.00	C 210.00	C 220.00	C 230.00	C 240.00	C 250.00
G 0.0	20.23	20.23	20.23	20.23	20.23	20.23	20.23	20.23	20.23	20.23	20.23	20.23	20.23
G 5.0	31.43	33.06	23.86	23.14	43.47	62.48	43.47	23.14	23.86	33.06	31.43	24.09	30.95
G 10.0	134.50	136.28	128.93	128.10	152.49	176.26	152.49	128.10	128.93	136.28	134.50	128.14	132.50
G 15.0	231.98	234.61	241.30	241.28	258.14	286.52	258.14	241.28	241.30	234.61	231.98	233.42	233.25
G 20.0	310.78	320.56	322.48	320.48	337.55	368.15	337.55	320.48	322.48	320.56	310.78	304.87	307.14
G 25.0	359.88	373.39	375.32	372.06	378.29	392.44	378.29	372.06	375.32	373.39	359.88	345.53	342.67
G 30.0	371.61	378.21	376.52	376.73	379.11	379.83	379.11	376.73	376.52	378.21	371.61	355.37	356.76
G 35.0	350.53	356.84	355.98	355.34	351.16	344.56	351.16	355.34	355.98	359.16	350.53	338.04	344.70
G 40.0	314.55	318.18	317.66	316.04	311.81	308.33	311.81	316.04	317.66	318.18	314.55	310.63	313.28
G 45.0	270.06	271.28	273.24	275.14	265.03	253.67	265.03	272.53	273.24	271.28	270.06	269.10	268.91
G 50.0	225.74	226.53	227.47	228.54	220.77	212.16	220.77	226.63	227.47	226.53	225.74	225.00	225.61
G 55.0	184.06	186.40	186.77	184.33	178.86	174.98	178.86	184.33	186.77	186.40	184.06	182.08	183.20
G 60.0	149.00	149.86	151.38	152.13	144.18	135.78	144.18	150.20	151.38	149.86	149.00	148.57	148.36
G 65.0	124.63	126.34	127.59	125.45	120.89	118.00	120.89	125.45	127.59	126.34	124.63	124.28	124.76
G 70.0	109.87	111.54	111.85	110.79	107.20	104.27	107.20	110.79	111.85	111.54	109.87	108.70	110.53
G 75.0	96.01	97.15	97.13	98.17	93.58	88.02	93.58	97.02	97.13	97.15	96.01	94.08	95.19
G 80.0	80.26	80.08	79.78	79.64	78.34	76.31	78.34	79.64	79.78	80.08	80.26	80.45	81.51
G 85.0	67.13	66.80	66.01	67.10	65.78	62.27	65.78	67.10	66.01	66.80	67.13	67.01	66.90
G 90.0	50.92	50.82	51.10	51.88	48.86	45.31	48.86	51.06	51.10	50.82	50.92	51.53	51.93

Luminaire		Measurem.		Lamp	
Code	FORA PIE U	Code	FORA U	Code	49885
Name	FORA PIE 2x20W T4 fibra+ opal	Name	Lum. FORA 2x20W E26 opal+fibra	Number	2
Line	- BOVER	Date	06-07-2011	Position	Universal

Efficiency	33.63%	Coordinate system	CG	Total Flux	2400.00 lm

Luminance cd/m2 **Table 3/3**

	C 180.00	C 190.00	C 200.00	C 210.00	C 220.00	C 230.00	C 240.00	C 250.00	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00
G 0.0	20.23	20.23	20.23	20.23	20.23	20.23	20.23	20.23	20.23	20.23	20.23	20.23	20.23
G 5.0	62.48	43.47	23.14	23.86	33.06	31.43	24.09	30.95	29.17	20.42	29.18	30.93	24.09
G 10.0	176.26	152.49	128.10	128.93	136.28	134.50	128.14	132.50	131.50	125.63	131.51	132.48	128.14
G 15.0	286.52	258.14	241.28	241.30	234.61	231.98	233.42	233.25	231.24	230.31	231.26	233.21	233.42
G 20.0	368.15	337.55	320.48	322.48	320.56	310.78	304.87	307.14	304.46	298.86	304.48	307.10	304.87
G 25.0	392.44	378.29	372.06	375.32	373.39	359.88	345.53	342.67	337.06	330.00	337.07	342.65	345.53
G 30.0	379.83	379.11	376.73	376.52	378.21	371.61	355.37	356.76	351.35	340.72	351.35	356.76	355.37
G 35.0	344.56	351.16	355.34	355.98	359.16	350.53	338.04	344.70	338.42	324.04	338.42	344.71	338.04
G 40.0	308.33	311.81	316.04	317.66	318.18	314.55	310.63	313.28	309.65	303.06	309.65	313.28	310.63
G 45.0	253.67	265.03	272.53	273.24	271.28	270.06	269.10	268.91	267.04	265.03	267.03	268.92	269.10
G 50.0	212.16	220.77	226.63	227.47	226.53	225.74	225.00	225.61	224.99	223.74	224.99	225.62	225.00
G 55.0	174.98	178.86	184.33	186.77	186.40	184.06	182.08	183.20	185.94	187.52	185.93	183.20	182.08
G 60.0	135.78	144.18	150.20	151.38	149.86	149.00	148.57	148.36	147.48	146.64	147.48	148.37	148.57
G 65.0	118.00	120.89	125.45	127.59	126.34	124.63	124.28	124.76	124.55	123.97	124.55	124.76	124.28
G 70.0	104.27	107.20	110.79	111.85	111.54	109.87	108.70	110.53	111.38	110.68	111.38	110.53	108.70
G 75.0	88.02	93.58	97.02	97.13	97.15	96.01	94.08	95.19	95.76	95.79	95.97	95.03	94.08
G 80.0	76.31	78.34	79.64	79.78	80.08	80.26	80.45	81.51	81.85	81.70	81.85	81.51	80.45
G 85.0	62.27	65.78	67.10	66.01	66.80	67.13	67.01	66.90	67.95	68.99	67.95	67.18	67.01
G 90.0	45.31	48.86	51.06	51.10	50.82	50.92	51.53	51.93	52.27	52.47	52.27	51.94	51.53