

Luminaire		Measurem.		Lamp				
Code	1540	Code	1540	Code	1 LED 5.6W 500mA			
Name	Hanging lamp Frisby 2700K 1-10	Name	Hanging lamp Frisby 2700K 1-10	Number	1			
Line	VIBIA-Flamingo	Date	03-12-2015	Position	Universal			
Luminaire Flux		551.06 lm	Luminaire Power	6.00 W	Efficacy	91.84 lm/W	Efficiency	79.36%
Lamps Flux		694.42 lm	Maximum value	2240.90 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical
Round Luminaire		Diam.	700 mm	Height	100 mm			
Round Luminous Area		Diam.	5 mm	Height	3 mm			
Horizontal Luminous Area		0.000020 m2		Emitting area on Plane 180°		0.000015 m2		
Emitting area on Plane 0°		0.000015 m2		Emitting area on Plane 270°		0.000015 m2		
Emitting area on Plane 90°		0.000015 m2		Glare area at 76°		0.000019 m2		
Coordinate system		CG	Symmetry Type		Double Symmetrical			
Date		03-12-2015	Maximum Gamma Angle		90			
Measurement Distance		0.51	Measurement Flux		694.42 lm			
Operator		Asselum T3	Source voltage		230.00 V			
Temperature		25.00 °C	Source current					
Humidity		50.00 %	Photocell		Czibula Grundmann			
Notes								
Luminaire Lamps								
Line	Code	Name		Flux [lm]	Pow. [W]	Q.ty		
- VIBIA	1 LED 5.6W 500mA	Lámpara 1 led 5.6W 2700K		694.42	6.00	1		
C.I.E.	92 98 100 100 79	D DIN 5040		A60				
F UTE	0.79 A	B NBN		BZ 1				

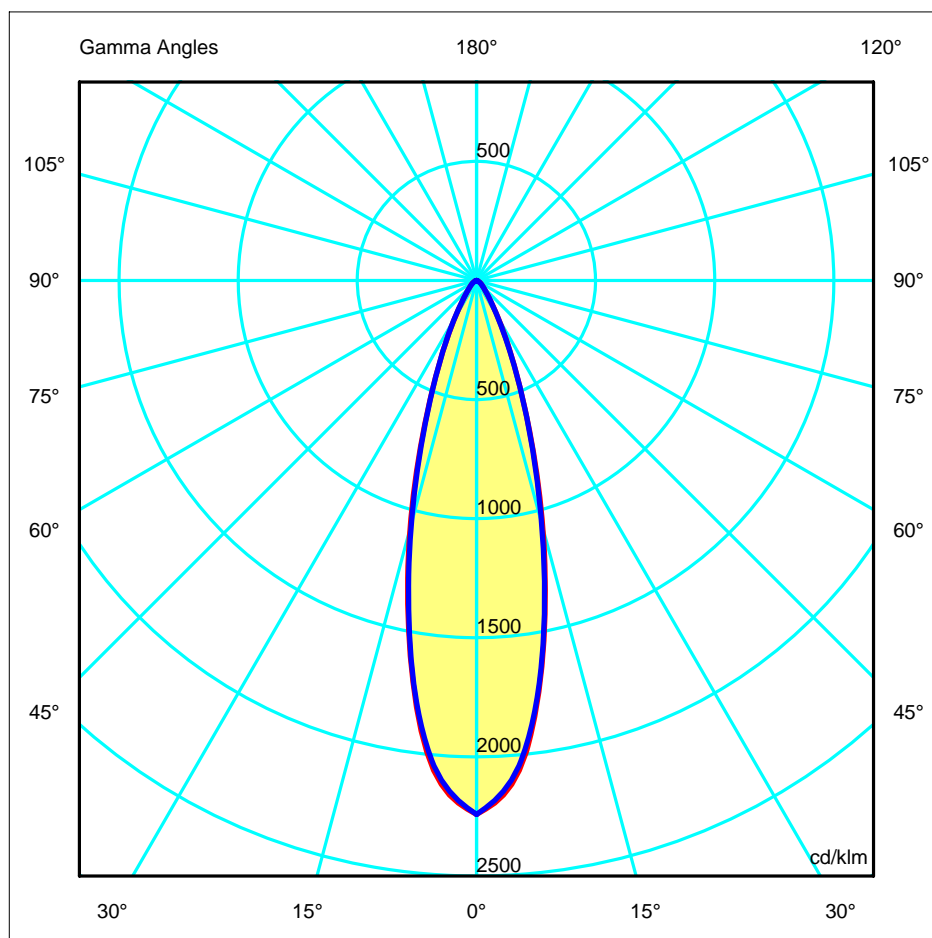
Diam=700mm



C Halfplanes

180.0 — 0.0
 270.0 — 90.0

ULOR 0.00 %
 DLOR 79.36 %
 RN 0.00 %



Luminaire		Measurem.		Lamp			
Code	1540	Code	1540	Code	1 LED 5.6W 500mA		
Name	Hanging lamp Frisby 2700K 1-10	Name	Hanging lamp Frisby 2700K 1-10	Number	1		
Line	VIBIA-Flamingo	Date	03-12-2015	Position	Universal		
Luminaire Flux	551.06 lm	Luminaire Power	6.00 W	Efficacy	91.84 lm/W	Efficiency	79.36%
Lamps Flux	694.42 lm	Maximum value	2240.90 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	2240.90	2240.90	2240.90	2240.90	2240.90	2240.90	2240.90
G 5.0	2064.00	2059.18	2060.47	2059.50	2052.71	2054.28	2045.24
G 10.0	1599.54	1601.50	1593.29	1601.05	1597.44	1597.58	1590.14
G 15.0	1076.63	1071.43	1081.74	1088.68	1076.58	1060.38	1056.15
G 20.0	624.38	633.98	643.20	655.10	645.45	635.24	615.45
G 25.0	344.98	348.94	352.15	364.47	358.47	351.96	344.96
G 30.0	182.93	185.31	188.12	192.84	189.74	187.69	184.62
G 35.0	101.16	102.25	103.56	105.61	104.15	102.86	101.23
G 40.0	61.17	61.82	62.46	63.54	62.57	62.22	61.21
G 45.0	41.33	41.70	42.10	42.89	42.04	41.39	40.64
G 50.0	30.33	30.61	30.67	30.84	30.26	29.84	29.46
G 55.0	22.50	22.62	22.65	22.55	22.04	21.64	21.44
G 60.0	16.29	16.42	16.21	16.08	15.50	15.11	14.85
G 65.0	10.25	10.30	10.18	9.93	9.39	9.04	8.96
G 70.0	5.71	5.80	5.78	5.68	5.28	4.99	4.82
G 75.0	2.68	2.74	2.77	2.72	2.60	2.55	2.48
G 80.0	1.37	1.36	1.37	1.37	1.36	1.36	1.36
G 85.0	1.07	1.05	1.05	1.07	1.12	1.17	1.21
G 90.0	1.20	1.18	1.19	1.22	1.28	1.35	1.39

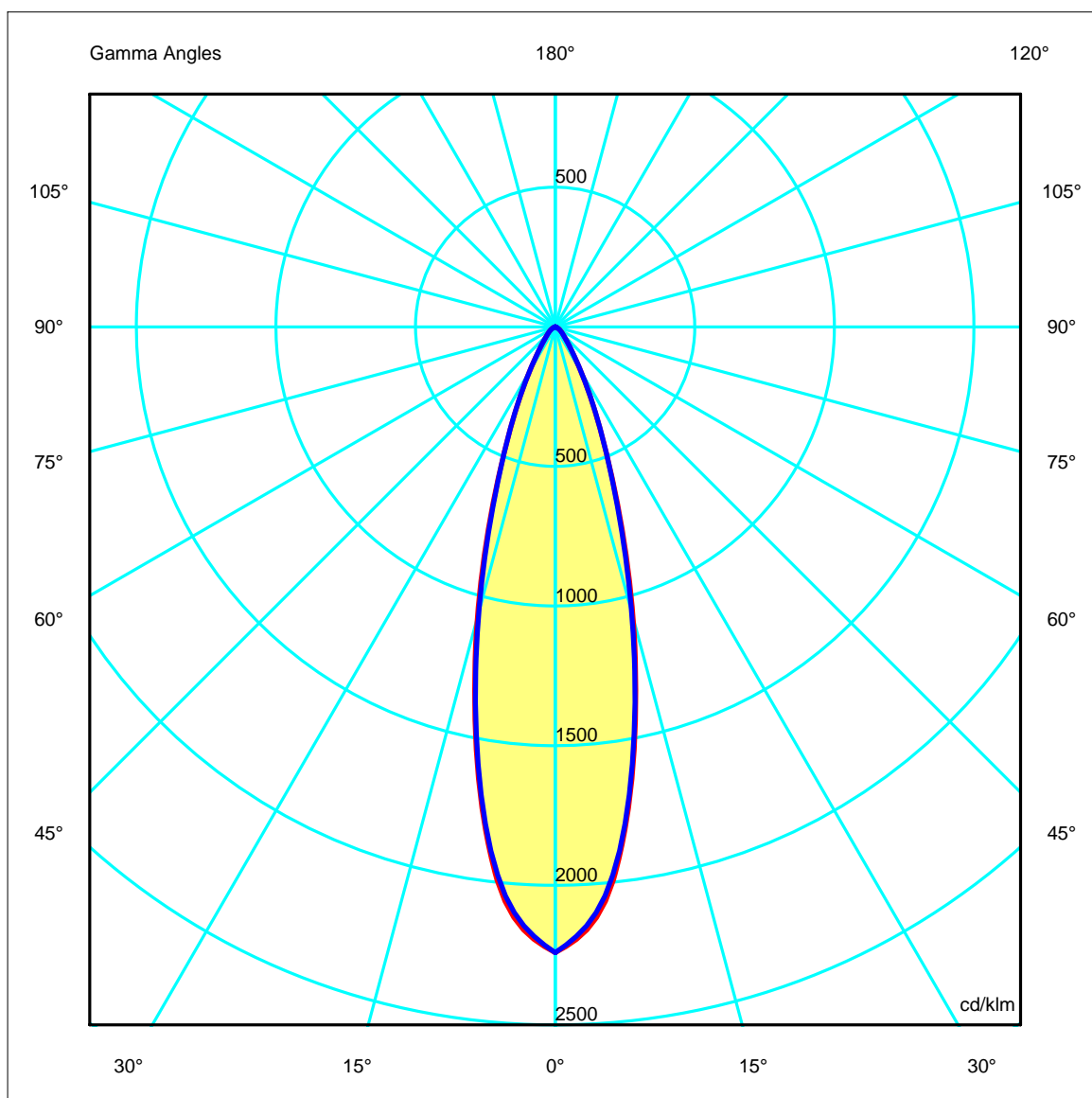
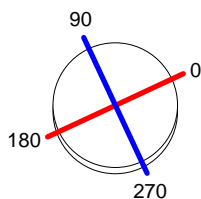
Luminaire		Measurem.		Lamp				
Code	1540	Code	1540	Code	1 LED 5.6W 500mA			
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Diam=700mm

C Halfplanes

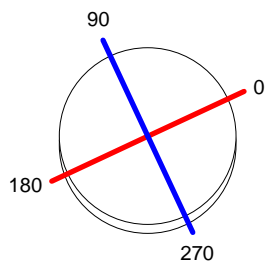
180.0 ————— 0.0

270.0 ————— 90.0



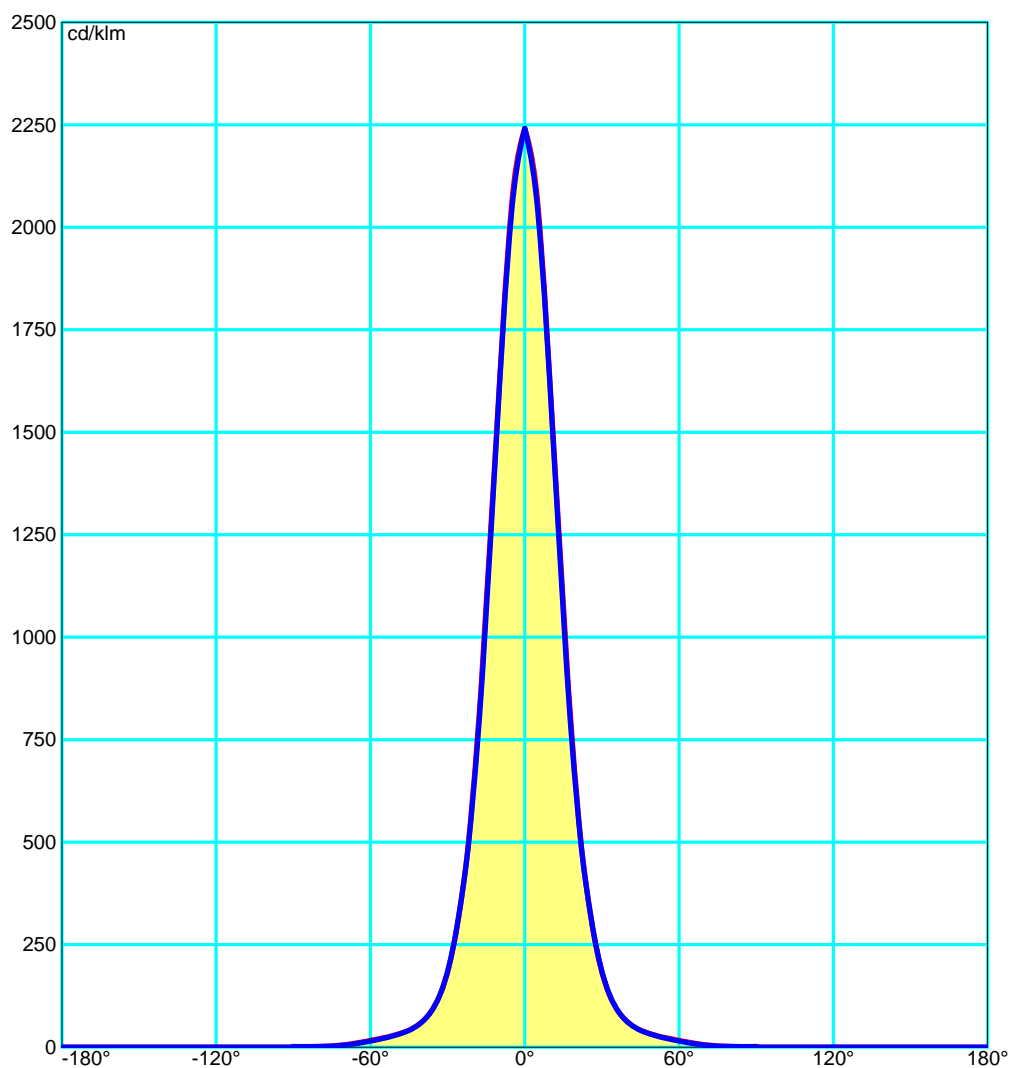
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				CG	Double Symmetrical

Total Flux=694.42 Luminaire Flux=551.06

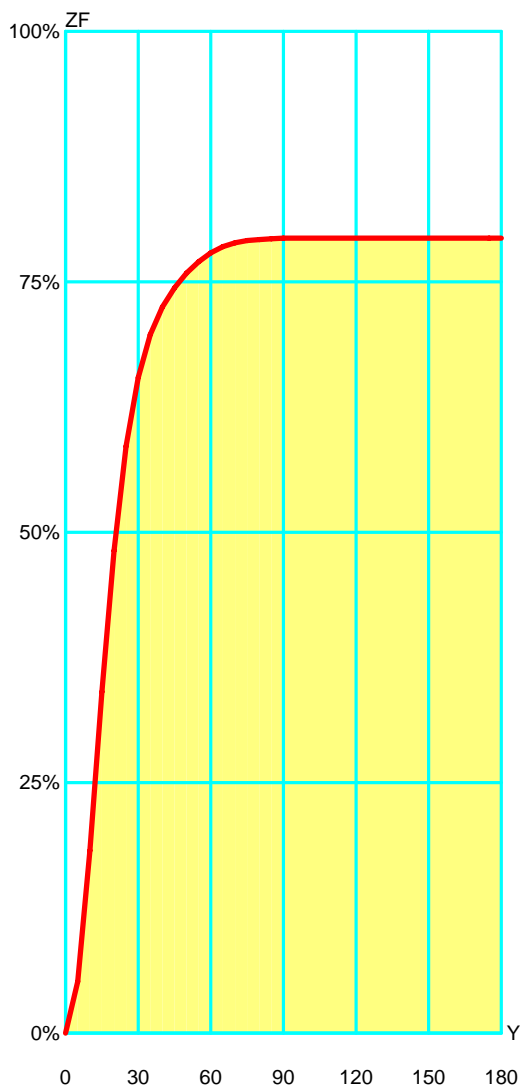
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.68	0.73	0.78	0.82	0.85	0.90	0.93	0.95	0.97	0.98	1.01	1.01
RC	-	-	-	-	-	-	-	-	-	-	-	-

Zonal Flux per 1000 Lumen												
Y°	10	20	30	40	50	60	70	80	90	100	110	120
ZF(Y)	182	482	654	725	759	779	789	792	794	794	794	794

CIE Flux Codes
92 98 100 100 79

C.I.E. - - - - -
D DIN 5040 A60
F UTE 0.79 A
B NBN BZ 1
RN 0.00000 %
BLF 1.0

LOR 79.35529 %
ULOR 0.00000 %
DLOR 79.35529 %
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°	51.38	51.38	6.47 %	6.47 %
10°	130.73	182.11	16.47 %	22.95 %
15°	158.49	340.60	19.97 %	42.92 %
20°	141.18	481.77	17.79 %	60.71 %
25°	104.07	585.85	13.12 %	73.83 %
30°	68.52	654.36	8.63 %	82.46 %
35°	42.88	697.24	5.40 %	87.86 %
40°	27.62	724.87	3.48 %	91.34 %
45°	19.28	744.15	2.43 %	93.77 %
50°	14.59	758.74	1.84 %	95.61 %
55°	11.44	770.18	1.44 %	97.05 %
60°	8.80	778.98	1.11 %	98.16 %
65°	6.21	785.19	0.78 %	98.95 %
70°	3.85	789.04	0.49 %	99.43 %
75°	2.12	791.16	0.27 %	99.70 %
80°	1.08	792.24	0.14 %	99.83 %
85°	0.67	792.91	0.08 %	99.92 %
90°	0.64	793.55	0.08 %	100.00 %
95°	0.00	793.55	0.00 %	100.00 %
100°	0.00	793.55	0.00 %	100.00 %
105°	0.00	793.55	0.00 %	100.00 %
110°	0.00	793.55	0.00 %	100.00 %
115°	0.00	793.55	0.00 %	100.00 %
120°	0.00	793.55	0.00 %	100.00 %
125°	0.00	793.55	0.00 %	100.00 %
130°	0.00	793.55	0.00 %	100.00 %
135°	0.00	793.55	0.00 %	100.00 %
140°	0.00	793.55	0.00 %	100.00 %
145°	0.00	793.55	0.00 %	100.00 %
150°	0.00	793.55	0.00 %	100.00 %
155°	0.00	793.55	0.00 %	100.00 %
160°	0.00	793.55	0.00 %	100.00 %
165°	0.00	793.55	0.00 %	100.00 %
170°	0.00	793.55	0.00 %	100.00 %
175°	0.00	793.55	0.00 %	100.00 %
180°	0.00	793.55	0.00 %	100.00 %

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Lamps Flux	694.42 lm	Maximum value	2240.90 cd/klm	Position	C=0.00 G=0.00	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
WorkingPlane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
RoomDimensions										
ViewedCrosswise	ViewedCrosswise					ViewedEndwise				
	30.5	31.3	30.8	31.5	31.5	30.4	31.1	30.7	31.3	31.5
x=2H y=2H	30.5	31.3	30.8	31.5	31.5	30.4	31.1	30.7	31.3	31.5
x=2H y=3H	30.7	31.4	31.0	31.6	31.6	30.5	31.2	30.8	31.4	31.6
x=2H y=4H	30.7	31.3	31.0	31.6	31.6	30.5	31.1	30.8	31.4	31.6
x=2H y=6H	30.6	31.2	31.0	31.5	31.6	30.4	31.0	30.8	31.3	31.6
x=2H y=8H	30.6	31.2	31.0	31.4	31.6	30.4	31.0	30.8	31.2	31.6
x=2H y=12H	30.6	31.1	30.9	31.4	31.5	30.4	30.9	30.7	31.2	31.5
x=4H y=2H	30.6	31.3	30.9	31.5	31.6	30.5	31.1	30.8	31.4	31.6
x=4H y=3H	30.9	31.4	31.2	31.7	31.8	30.7	31.2	31.0	31.5	31.8
x=4H y=4H	30.9	31.3	31.2	31.6	31.8	30.7	31.1	31.0	31.5	31.8
x=4H y=6H	30.8	31.2	31.2	31.6	31.8	30.6	31.0	31.0	31.4	31.8
x=4H y=8H	30.8	31.1	31.2	31.5	31.7	30.6	30.9	31.0	31.3	31.7
x=4H y=12H	30.8	31.1	31.2	31.5	31.7	30.6	30.9	31.0	31.3	31.7
x=8H y=4H	30.8	31.1	31.2	31.5	31.7	30.6	30.9	31.0	31.3	31.7
x=8H y=6H	30.8	31.0	31.2	31.4	31.7	30.6	30.8	31.0	31.2	31.7
x=8H y=8H	30.7	30.9	31.2	31.4	31.7	30.6	30.8	31.0	31.2	31.7
x=8H y=12H	30.7	30.9	31.2	31.4	31.7	30.5	30.7	31.0	31.2	31.7
x=12H y=4H	30.8	31.1	31.2	31.5	31.7	30.6	30.9	31.0	31.3	31.7
x=12H y=6H	30.7	30.9	31.2	31.4	31.7	30.5	30.8	31.0	31.2	31.7
x=12H y=8H	30.7	30.9	31.2	31.3	31.7	30.5	30.7	31.0	31.2	31.7

Luminaire					Measur.					Lamp				
Code	1540				Code	1540				Code	1 LED 5.6W 500mA			
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Utilizations CIE

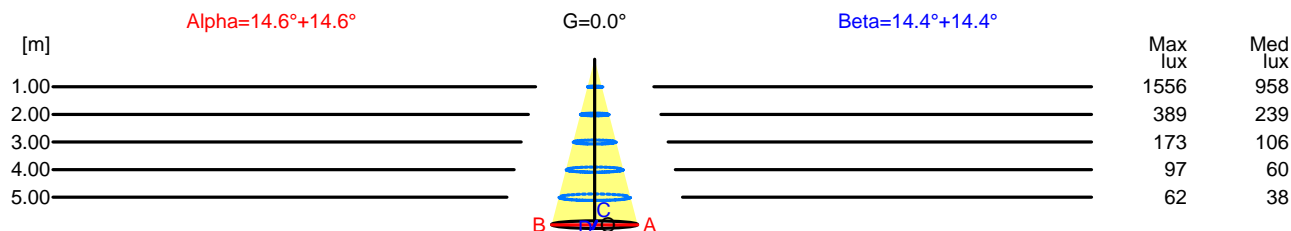
Mounting	Direct			Normalization			Normalised			Suspension Ratio			Standard CIE Settings										
											Ceiling												
K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000
0.60	133	120	80	72	114	69	76	65	44	37	26	20	14	10	35	21	19	11	9	18	10	8	0
0.80	160	147	87	80	139	76	99	87	51	45	33	27	20	15	42	28	25	17	14	24	14	13	0
1.00	178	165	87	82	157	78	118	106	55	50	39	32	25	20	47	33	30	22	19	29	19	17	0
1.25	196	184	88	83	175	80	138	125	60	55	44	37	31	25	51	38	35	28	24	34	25	22	0
1.50	209	199	88	84	189	81	154	142	63	58	48	42	36	30	55	43	40	32	29	38	29	27	0
2.00	227	218	85	82	208	79	179	167	65	62	54	49	44	38	59	49	46	40	37	44	37	34	0
2.50	239	232	82	80	221	78	196	185	67	64	58	53	50	44	61	53	51	46	43	49	43	40	0
3.00	248	241	80	79	231	77	209	199	68	66	61	57	55	49	63	57	55	51	48	53	48	45	0
4.00	261	256	80	79	245	77	228	219	71	69	66	62	61	56	66	62	60	58	55	58	54	51	0
5.00	270	265	80	79	254	77	240	233	73	71	69	66	65	61	68	65	64	62	59	62	59	56	0
10.00	288	286	80	79	274	78	268	264	77	76	76	74	75	72	74	73	72	72	71	70	70	67	0
20.00	299	297	80	80	286	79	284	281	79	79	80	79	80	79	77	77	77	78	77	75	76	74	0

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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	0.26	0.52	0.78	1.04	1.30	OC	0.26	0.51	0.77	1.03	1.28
OB	0.26	0.52	0.78	1.04	1.30	OD	0.26	0.51	0.77	1.03	1.28

				Luminous Intensities [cd/klm]							
	0	5	15	25	35	45	55	65	75	85	
OA	1556.13	1433.29	747.63	239.56	70.25	28.70	15.62	7.12	1.86	0.74	
OB	1556.13	1433.29	747.63	239.56	70.25	28.70	15.62	7.12	1.86	0.74	
OC	1556.13	1420.26	733.41	239.55	70.30	28.22	14.89	6.22	1.72	0.84	
OD	1556.13	1420.26	733.41	239.55	70.30	28.22	14.89	6.22	1.72	0.84	



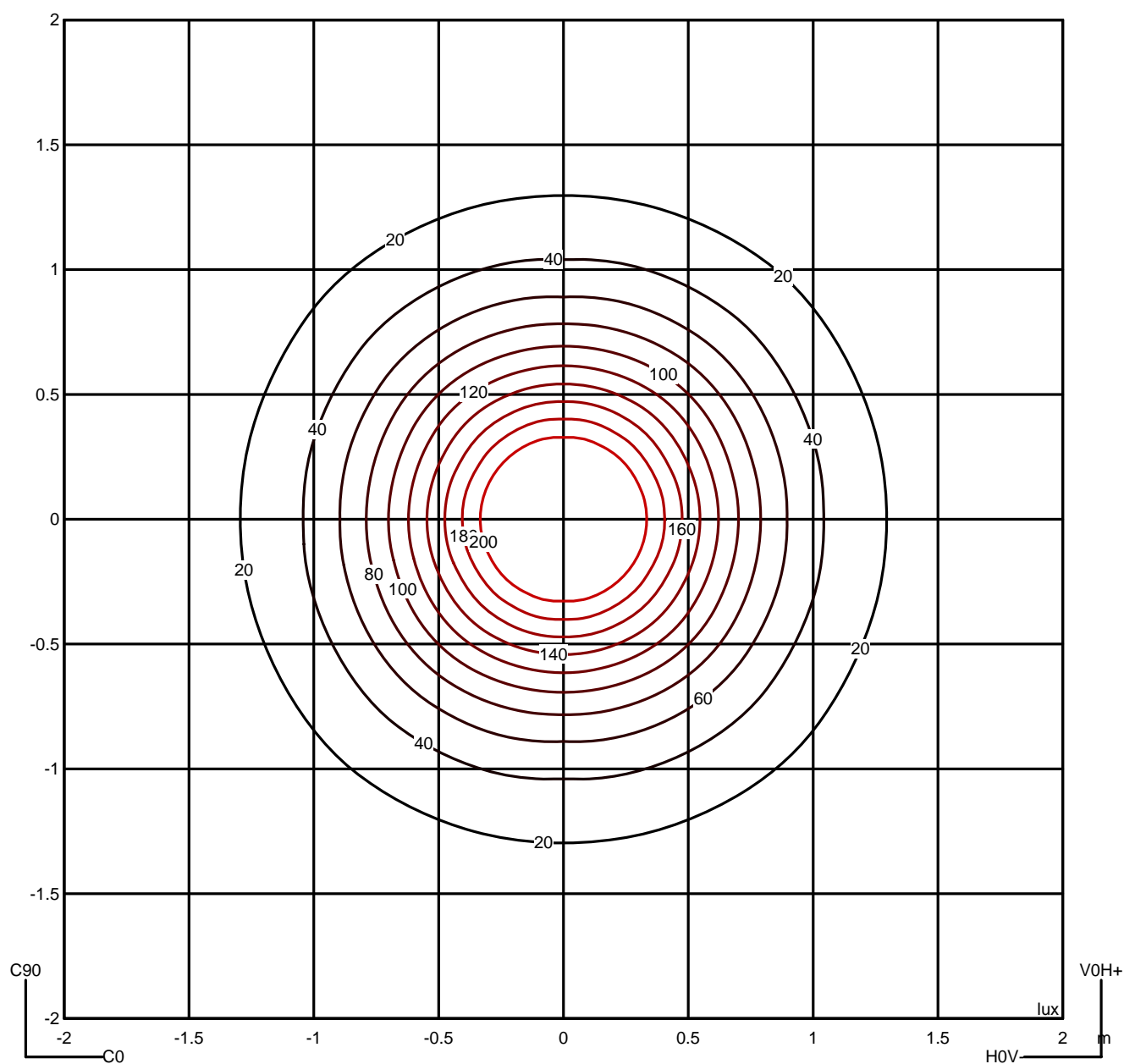
H[m]	D[m]	Max lux	Med lux	Alpha=14.6°+14.6°	G=0.0	
1.00	0.52	1556	958			
2.00	1.04	389	239			
3.00	1.56	173	106			
4.00	2.08	97	60			
5.00	2.60	62	38			

H[m]	D[m]	Max lux	Med lux	Beta=14.4°+14.4°	G=0.0	
1.00	0.51	1556	958			
2.00	1.03	389	239			
3.00	1.54	173	106			
4.00	2.05	97	60			
5.00	2.56	62	38			

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Isolux (Floor)

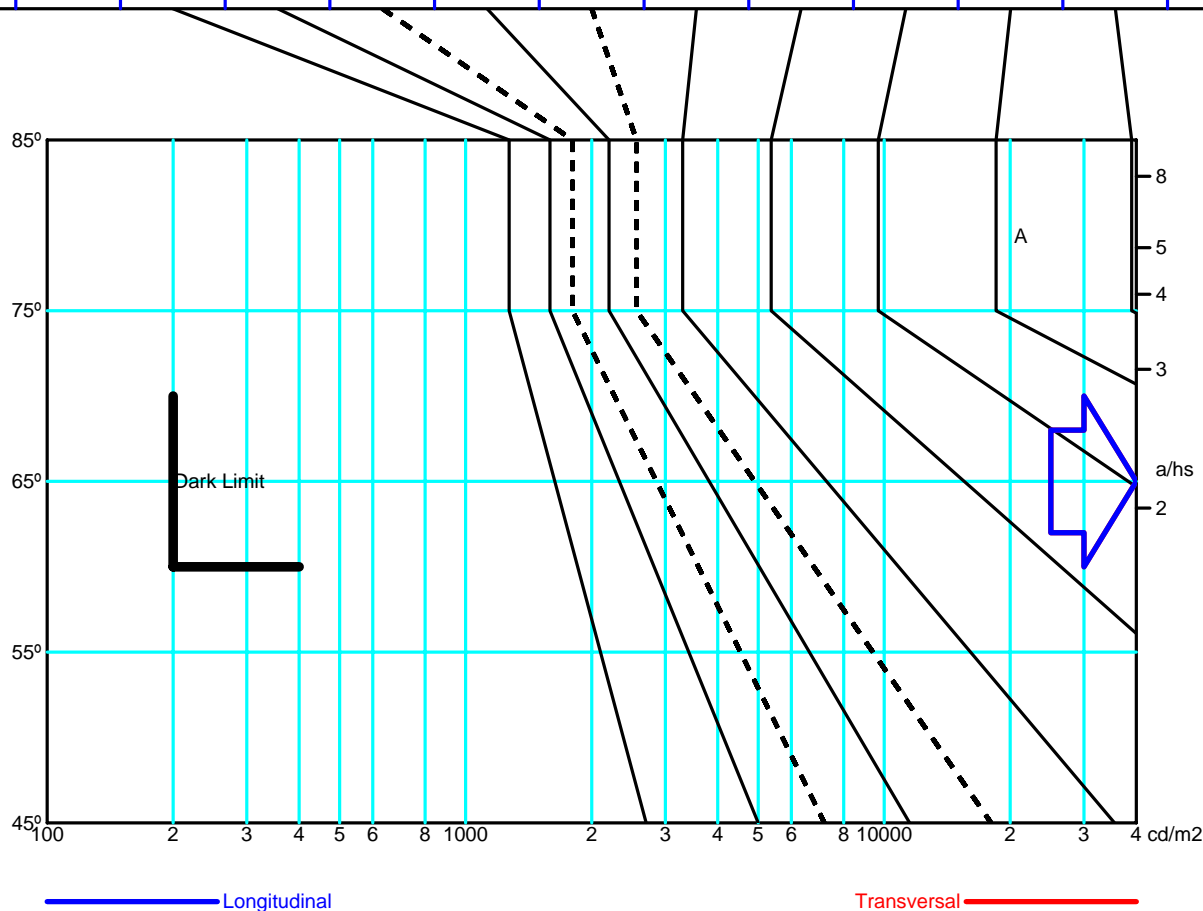
Luminaire position X=0.00m Y=0.00m Z=2.50m



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Average Luminance [cd/m²]										
0.0°	45°	50°	55°	60°	65°	70°	75°	80°	85°	
1159783	865086	657599	492097	322968	189559	94628	51996	44484	50363	---
90.0°	1140234	840400	626513	448689	282071	159760	87505	51589	50363	---

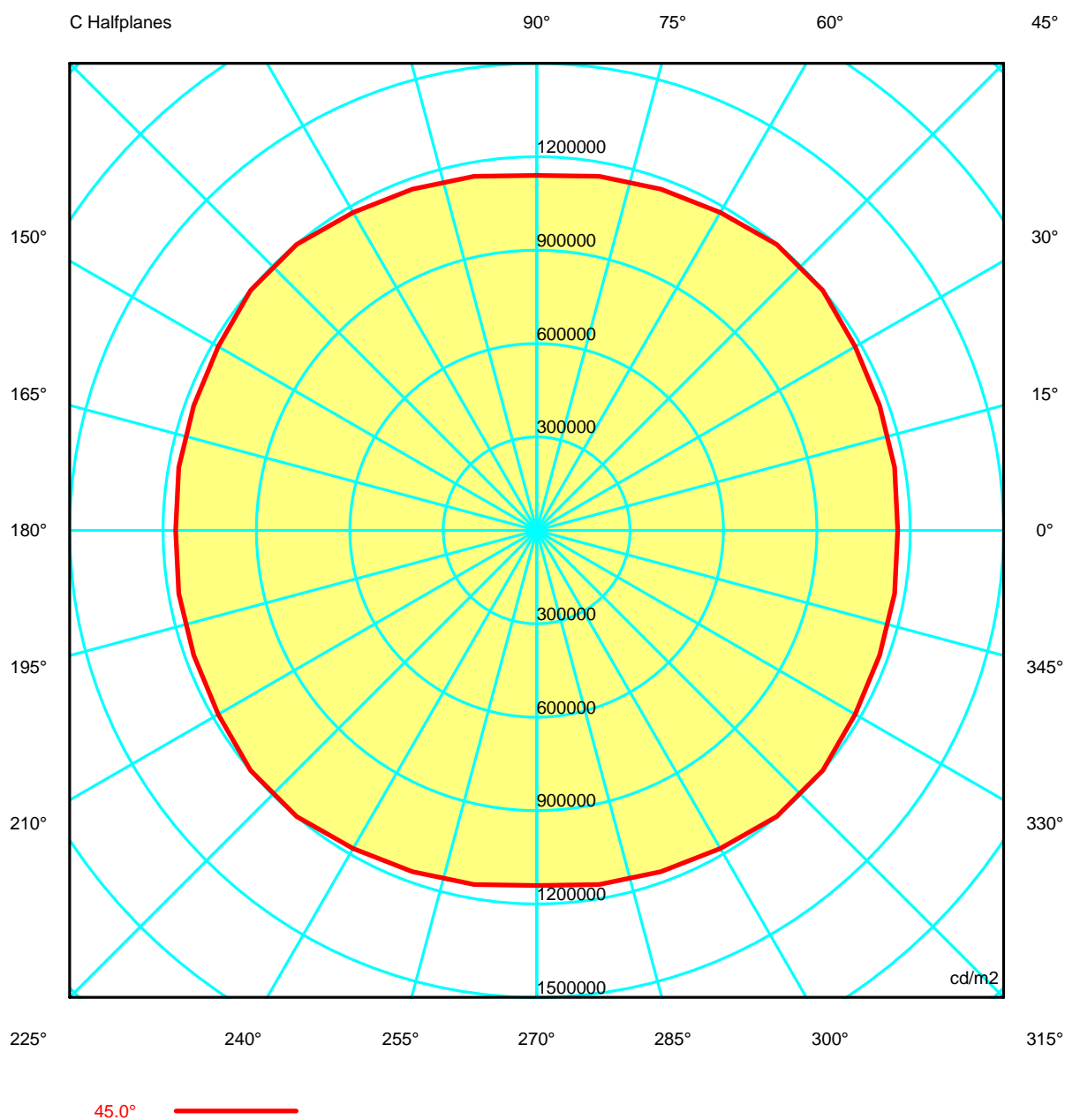
Flush mounted or longitudinal view												
		Illumination(lx)										
A	A	2000	1000	750	500		<300					1.15
B	1		2000	1500	1000	750	500	<300				1.5
C					2000		1000	500	<300			1.85
D	2						2000	1000	500	<300		2.2
E	3							2000	1000	500	<300	2.55



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Luminance



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Name	Hanging lamp Frisby 2700K 1-10	Name	Hanging lamp Frisby 2700K 1-10			Number	1			
Line	VIBIA-Flamingo	Date	03-12-2015			Position	Universal			
Luminaire Flux	551.06 lm	Luminaire Power	6.00 W	Efficacy	91.84 lm/W	Efficiency	79.36%			
Lamps Flux	694.42 lm	Maximum value	2240.90 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical			
Luminance cd/m2				Table 3/3						
	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	0.077806446	5.777806446	5.777806446	5.777806446	5.777806446	5.777806446	5.777806446	5.777806446	5.777806446	5.777806446
G 5.0	0.077806446	5.777806446	5.777806446	5.777806446	5.777806446	5.777806446	5.777806446	5.777806446	5.777806446	5.777806446
G 10.0	0.049699516	3.349515012	9.949699516	3.349748770	49.49742326	90.49817231	56.49775135	39.49612853	53.49772625	97.49895778
G 15.0	0.31660647	9.631611465	6.131660647	9.631870893	8.132222951	0.632519349	45.32571239	66.32377508	60.32133449	0.132075624
G 20.0	0.18278712	3.317863845	7.518278712	3.318549748	47.18734766	1.018972758	0.031894846	0.0518669477	32.18477388	0.018316750
G 25.0	99.28775.78	97.91242.21	99.28775.78	100.44108.88	101.174723.06	103.38469.78	102.56935.04	99.95310.86	99.12945.88	98.97938.94
G 30.0	52.27909.35	51.65337.31	52.27909.35	52.67155.16	53.08409.95	53.83819.86	53.67670.57	52.63187.01	52.03124.50	51.64191.21
G 35.0	28.45370.77	28.13421.70	28.45370.77	28.69418.77	28.94404.76	29.29651.05	29.23265.68	28.78069.73	28.50630.38	28.32321.90
G 40.0	17.24143.25	17.02677.24	17.24143.25	17.33588.02	17.40686.41	17.62542.14	17.62261.34	17.37625.22	17.24082.77	17.14585.34
G 45.0	11.55011.23	11.40233.72	11.55011.23	11.66481.55	11.79587.81	11.99287.10	11.99489.39	11.71235.40	11.67202.24	
G 50.0	8.47811.68	8.40399.68	8.47811.68	8.54435.62	8.63029.78	8.75835.69	8.79743.80	8.74773.55	8.73529.92	8.71226.51
G 55.0	6.30012.80	6.26512.53	6.30012.80	6.35485.97	6.44153.47	6.54995.65	6.61308.40	6.61948.83	6.61567.41	6.60143.65
G 60.0	4.53659.98	4.48688.87	4.53659.98	4.59379.74	4.68074.85	4.80712.25	4.87899.67	4.89653.75	4.94327.35	4.95889.58
G 65.0	2.83117.50	2.82070.53	2.83117.50	2.87174.54	2.95728.82	3.07480.11	3.16261.78	3.20577.00	3.23683.47	3.24477.38
G 70.0	1.63219.17	1.59759.72	1.63219.17	1.67982.76	1.75211.82	1.84544.36	1.90354.81	1.91727.05	1.92548.10	1.91907.14
G 75.0	8.9212.14	8.7503.99	8.9212.14	9.0474.08	9.1964.52	9.4744.79	9.7065.29	9.7853.27	9.7443.68	9.6235.53
G 80.0	5.1577.94	5.1588.62	5.1577.94	5.1810.47	5.1815.84	5.1886.02	5.2061.04	5.2167.88	5.2001.79	5.1898.53
G 85.0	4.4948.51	5.0362.71	4.4948.51	4.8129.35	4.6403.16	4.5006.21	4.4182.80	4.3779.57	4.3522.84	4.3756.00
G 90.0	6.3374.87	6.4339.39	6.3374.87	6.1599.99	5.9251.91	5.7377.05	5.6112.47	5.5314.06	5.4869.15	5.4945.84