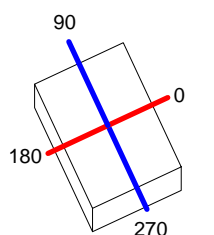


Luminaire		Measurem.		Lamp		
Code	0720	Code	0720	Code	GENIE 11W/827 E14	
Name	Wall lamp short	Name	Wall lamp short	Number	1	
Line	VIBIA-I.Cono	Date	08-09-2012	Position	Univesal	
Efficiency	53.78%	Coordinate system	C-G	Total Flux	570.00 lm	
Maximum value	194.22 cd/klm	Position	C=285.00 G=10.00	Sym. on planes 270-90		
Rectangular Luminaire	Length	280 mm	Width	200 mm	Height	200 mm
Round Luminous Area	Diam.	190 mm	Height	0 mm		
Horizontal Luminous Area	0.028353 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°	0.006859 m2		
Symmetry Type	Sym. on planes 270-90	Maximum Gamma Angle	180			
Measurement Distance	6.44	Measurement Flux	600.00 lm			
Operator	Asselum	Source voltage	230.00 V			
Temperature	25.00 °C	Source current				
Humidity	50.00 %	Photocell	PRC			
Notes						

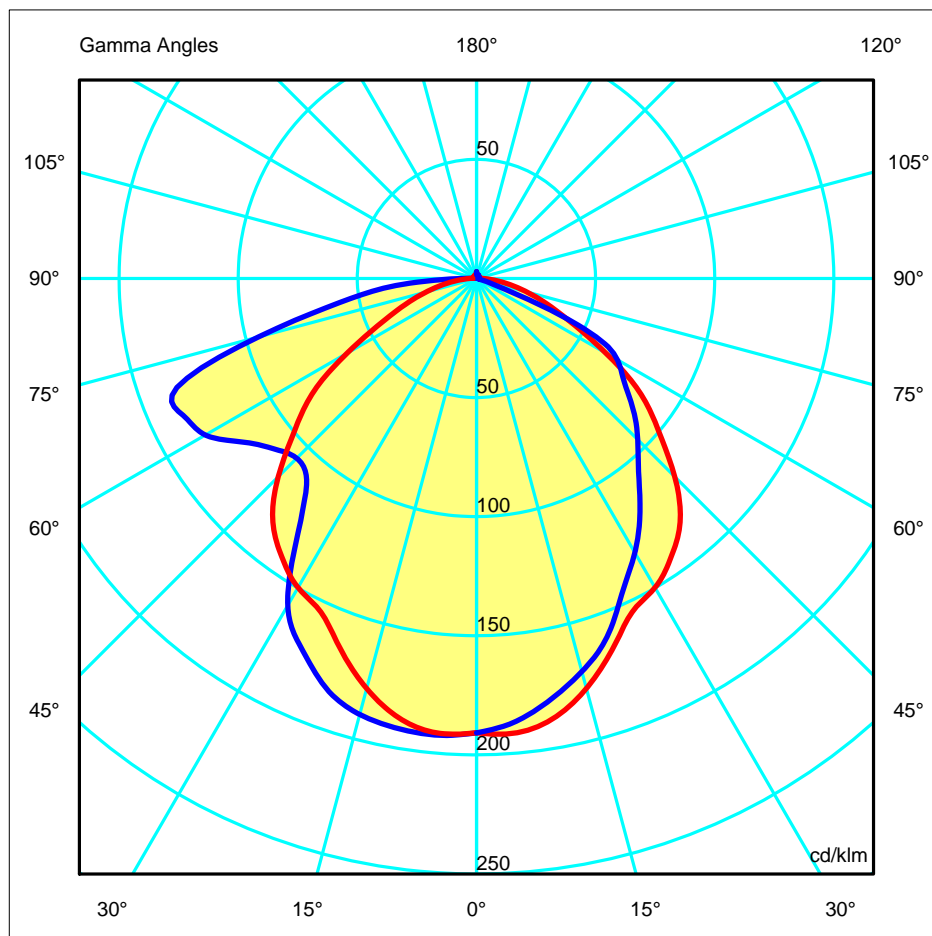
Luminaire Lamps						
Line	Code	Name	Fluxlm	Pow.W	Qta	
PHILIPS 2005 ILCOS FBT,G,C,FSQ	GENIE 11W/827 E14	GENIE ESAVER 11W/827 E14	570.00	11.00	1	
C.I.E.	44 74 94 98 54	D DIN 5040				
F UTE	0.53 E + 0.01 T	B NBN		A31		
				BZ 5		

280mm x 200mm



C Halfplanes
270.0 — 0.0
180.0 — 90.0

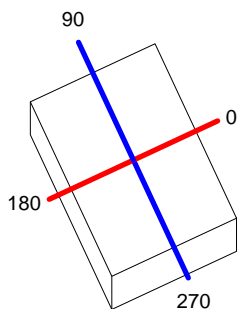
ULOR 1.08 %
DLOR 52.70 %
RN 2.01 %



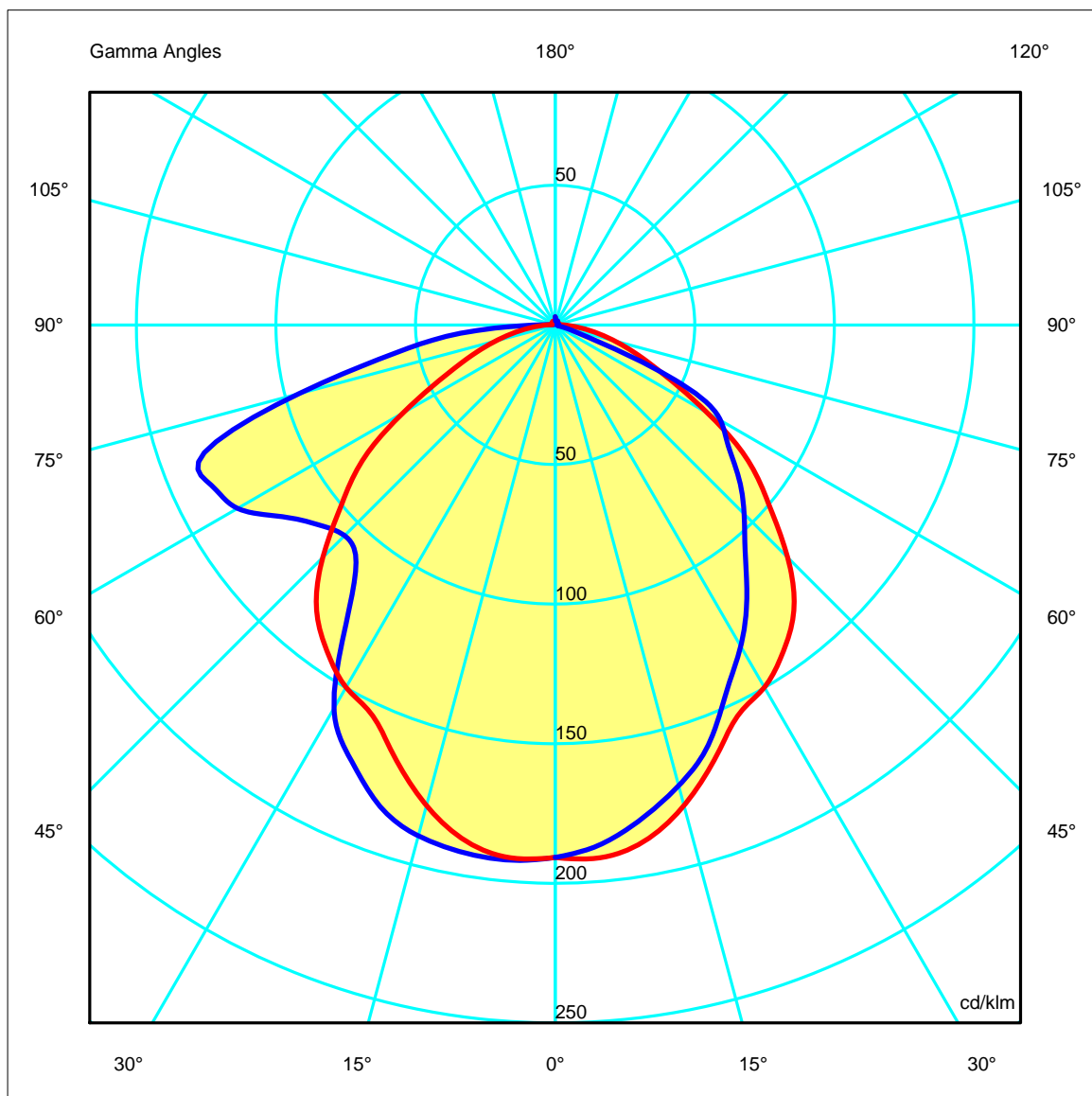
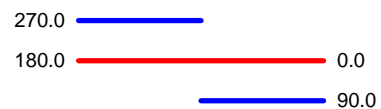
Luminaire				Measur.				Lamp					
Code	0720			Code	0720			Code	GENIE 11W/827 E14				
Name	Wall lamp short			Name	Wall lamp short			Number	1				
Line	VIBIA-I.Cono			Date	08-09-2012			Position	Univesal				
Efficiency	53.78%			Coordinate system	C-G			Total Flux	570.00 lm				
Luminous Intensity Table cd/klm								Table 1/1					
	C 270.00	C 285.00	C 300.00	C 315.00	C 330.00	C 345.00	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	190.71	190.71	190.71	190.71	190.71	190.71	190.71	190.71	190.71	190.71	190.71	190.71	190.71
G 5.0	192.43	193.41	191.77	192.35	192.40	192.32	191.46	189.64	189.96	188.49	187.57	186.27	186.75
G 10.0	191.69	194.22	191.33	193.05	187.48	190.52	187.31	181.13	185.09	180.86	183.23	179.63	179.41
G 15.0	189.47	192.21	185.28	188.47	180.98	182.63	178.17	167.36	174.14	166.73	175.53	167.94	170.86
G 20.0	183.49	185.34	176.87	180.69	172.61	172.58	166.09	150.28	158.20	145.34	162.26	156.07	160.17
G 25.0	172.45	177.42	168.35	174.83	173.56	167.17	154.52	134.00	134.12	122.52	143.59	143.95	145.07
G 30.0	158.44	163.36	160.26	172.18	174.90	167.71	149.86	122.36	114.03	101.89	125.39	127.52	132.89
G 35.0	130.67	149.09	152.11	170.77	174.64	165.60	142.53	107.85	95.26	80.02	103.35	115.15	119.65
G 40.0	110.99	133.14	148.29	169.94	172.53	159.02	133.01	94.13	78.89	61.28	85.70	103.02	105.83
G 45.0	106.71	120.06	146.47	170.58	170.92	148.05	117.68	78.52	65.01	49.22	70.51	88.89	95.66
G 50.0	111.17	119.68	146.88	170.47	162.50	139.23	99.82	61.19	50.58	40.34	54.62	78.10	85.98
G 55.0	119.67	124.43	149.73	167.78	149.33	124.98	84.04	47.45	40.99	33.67	44.81	68.07	75.71
G 60.0	131.38	132.63	149.85	160.96	128.63	102.02	62.81	36.30	34.89	28.32	35.59	58.01	68.32
G 65.0	135.87	138.27	143.63	147.97	99.40	76.15	44.18	27.99	27.79	22.67	27.34	49.56	49.67
G 70.0	133.80	139.41	115.97	119.23	71.76	55.27	31.76	20.56	21.55	16.96	21.17	37.14	9.02
G 75.0	94.84	113.09	81.99	80.51	44.02	35.86	21.91	14.40	16.39	12.02	14.94	28.63	1.32
G 80.0	58.48	76.37	40.79	47.10	23.20	21.18	13.87	9.05	10.76	8.37	9.90	15.65	0.79
G 85.0	33.98	41.68	20.24	25.40	11.50	11.86	7.22	4.45	7.13	5.63	6.36	13.36	1.02
G 90.0	5.43	16.18	5.12	9.06	3.14	5.40	3.42	2.07	4.79	3.95	3.88	13.57	1.22
G 95.0	0.75	1.93	1.03	1.93	0.96	1.22	1.05	1.53	3.24	3.22	2.99	9.43	1.17
G100.0	0.55	0.89	1.03	1.01	1.00	1.08	1.08	1.37	2.71	2.74	2.53	4.73	1.12
G105.0	0.41	0.80	1.00	1.01	1.05	1.09	1.11	1.32	2.30	2.62	2.22	3.72	1.10
G110.0	0.48	0.80	0.99	1.06	1.17	1.15	1.18	1.42	2.02	2.41	1.98	2.17	1.10
G115.0	0.48	0.73	1.00	1.14	1.17	1.22	1.24	1.49	1.95	2.14	1.82	1.68	1.10
G120.0	0.62	0.73	1.00	1.15	1.24	1.23	1.34	1.56	1.95	1.91	1.63	1.47	1.17
G125.0	0.69	0.78	1.07	1.22	1.24	1.23	1.38	1.59	2.03	1.75	1.55	1.39	1.10
G130.0	0.69	0.88	1.07	1.19	1.28	1.30	1.38	1.63	2.05	1.64	1.52	1.40	1.10
G135.0	0.69	0.87	0.99	1.22	1.28	1.36	1.44	1.63	1.94	1.55	1.47	1.44	1.10
G140.0	0.69	0.79	0.90	1.13	1.30	1.37	1.44	1.66	1.77	1.50	1.45	1.50	1.22
G145.0	0.76	0.82	0.94	1.06	1.23	1.37	1.45	1.59	1.65	1.47	1.48	1.65	1.38
G150.0	0.83	0.84	1.01	1.06	1.22	1.41	1.48	1.54	1.59	1.48	1.49	1.59	1.71
G155.0	0.96	0.97	1.08	1.10	1.22	1.40	1.44	1.50	1.51	1.47	1.50	1.53	1.54
G160.0	1.24	1.13	1.20	1.17	1.18	1.34	1.44	1.46	1.48	1.50	1.47	1.61	1.57
G165.0	1.31	1.30	1.31	1.24	1.25	1.28	1.45	1.46	1.51	1.50	1.50	1.57	1.52
G170.0	1.31	1.30	1.31	1.30	1.33	1.27	1.34	1.43	1.45	1.50	1.52	1.52	1.52
G175.0	1.31	1.37	1.35	1.33	1.39	1.31	1.35	1.41	1.43	1.45	1.50	1.51	1.45
G180.0	2.90	2.94	2.92	2.84	2.86	2.80	2.80	2.80	2.86	2.84	2.92	2.94	2.90

Luminaire		Measur.		Lamp	
Code	0720	Code	0720	Code	GENIE 11W/827 E14
Name	Wall lamp short	Name	Wall lamp short	Number	1
Line	VIBIA-I.Cono	Date	08-09-2012	Position	Univesal
Efficiency	53.78%	Coordinate system	C-G	Total Flux	570.00 lm

280mm x 200mm

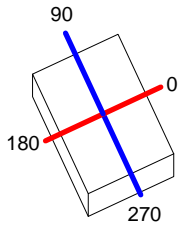


C Halfplanes



Luminaire		Measurem.		Lamp	
Code	0720	Code	0720	Code	GENIE 11W/827 E14
Name	Wall lamp short	Name	Wall lamp short	Number	1
Line	VIBIA-I.Cono	Date	08-09-2012	Position	Univesal
Efficiency	53.78%	Coordinate system	C-G	Total Flux	570.00 lm

280mm x 200mm

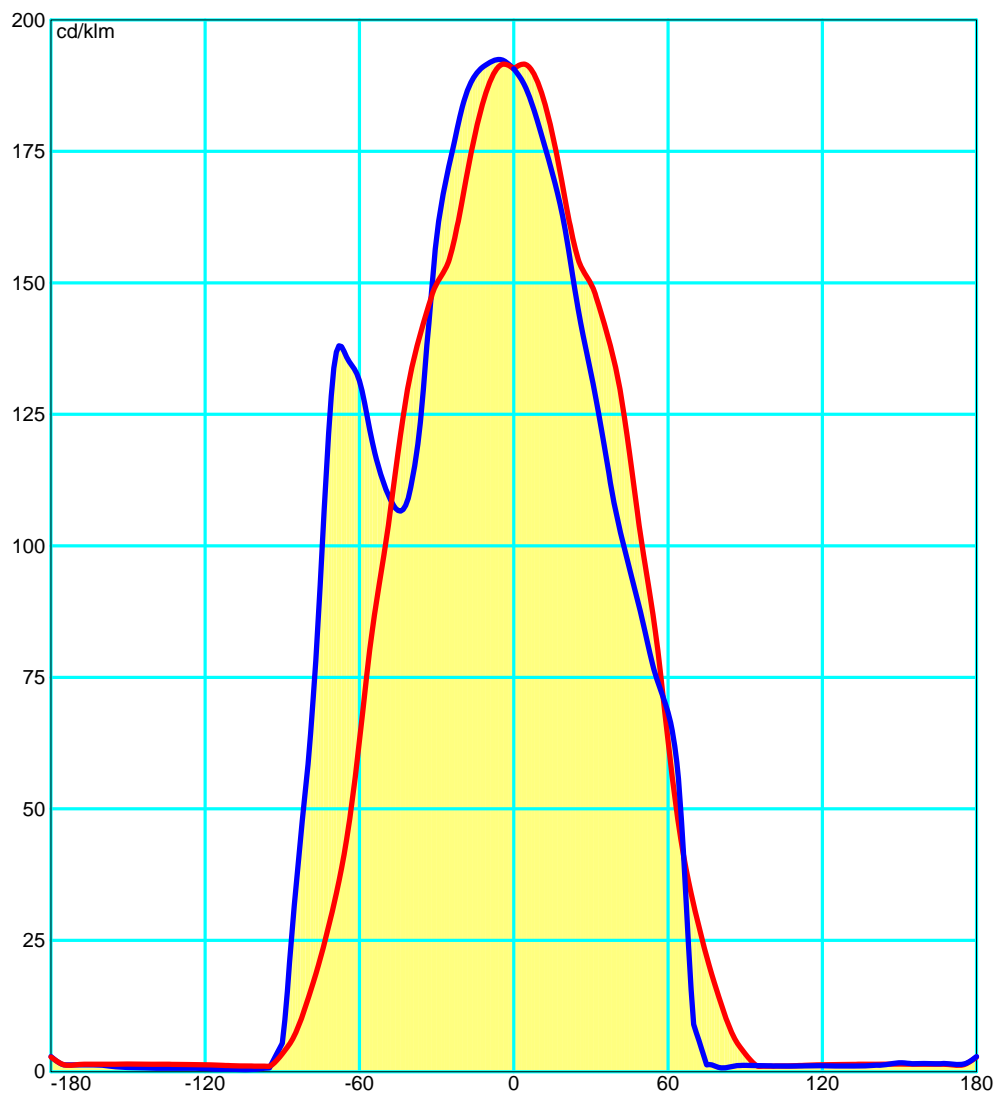


C Halfplanes

270.0 ————

180.0 ———— 0.0

————— 90.0

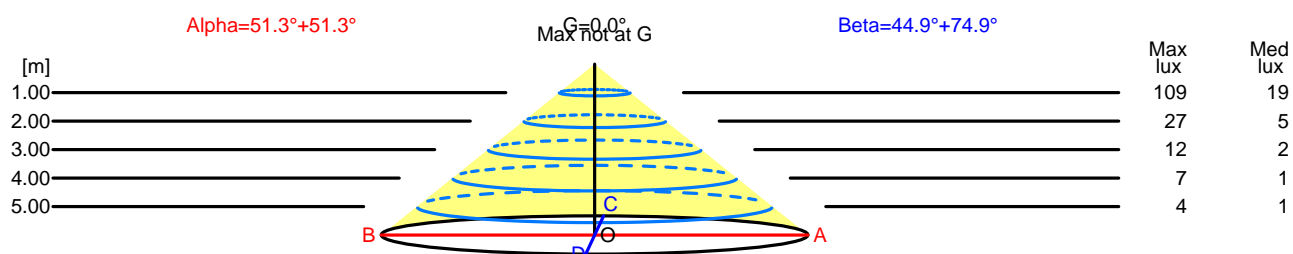


Luminaire		Measurem.		Lamp	
Code	0720	Code	0720	Code	GENIE 11W/827 E14
Name	Wall lamp short	Name	Wall lamp short	Number	1
Line	VIBIA-I.Cono	Date	08-09-2012	Position	Univesal
Efficiency	53.78%	Coordinate system	C-G	Total Flux	570.00 lm

Width at 50.00 % of MaxLux

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	1.25	2.50	3.74	4.99	6.24	OC	1.00	1.99	2.99	3.99	4.99
OB	1.25	2.50	3.74	4.99	6.24	OD	3.70	7.41	11.11	14.82	18.52

	Luminous Intensities [cd/klm]									
	0	5	15	25	35	45	55	65	75	85
OA	190.71	191.46	178.17	154.52	142.53	117.68	84.04	44.18	21.91	7.22
OB	190.71	191.46	178.17	154.52	142.53	117.68	84.04	44.18	21.91	7.22
OC	190.71	186.75	170.86	145.07	119.65	95.66	75.71	49.67	1.32	1.02
OD	190.71	192.43	189.47	172.45	130.67	106.71	119.67	135.87	94.84	33.98



H[m]	D[m]	Max lux	Med lux	Alpha=51.3°+51.3°	G=0.0°	Max not at G	
1.00	2.50	109	19				
2.00	4.99	27	5				
3.00	7.49	12	2				
4.00	9.99	7	1				
5.00	12.48	4	1				

H[m]	D[m]	Max lux	Med lux	Beta=74.9°+44.9°	G=0.0°	Max not at G	
1.00	4.70	109	19				
2.00	9.40	27	5				
3.00	14.11	12	2				
4.00	18.81	7	1				
5.00	23.51	4	1				

Luminaire		Measur.		Lamp	
Code	0720	Code	0720	Code	GENIE 11W/827 E14
Name	Wall lamp short	Name	Wall lamp short	Number	1
Line	VIBIA-I.Cono	Date	08-09-2012	Position	Univesal
Efficiency	53.78%	Coordinate system	C-G	Total Flux	570.00 lm

Total Flux=570.00 Luminaire Flux=306.56

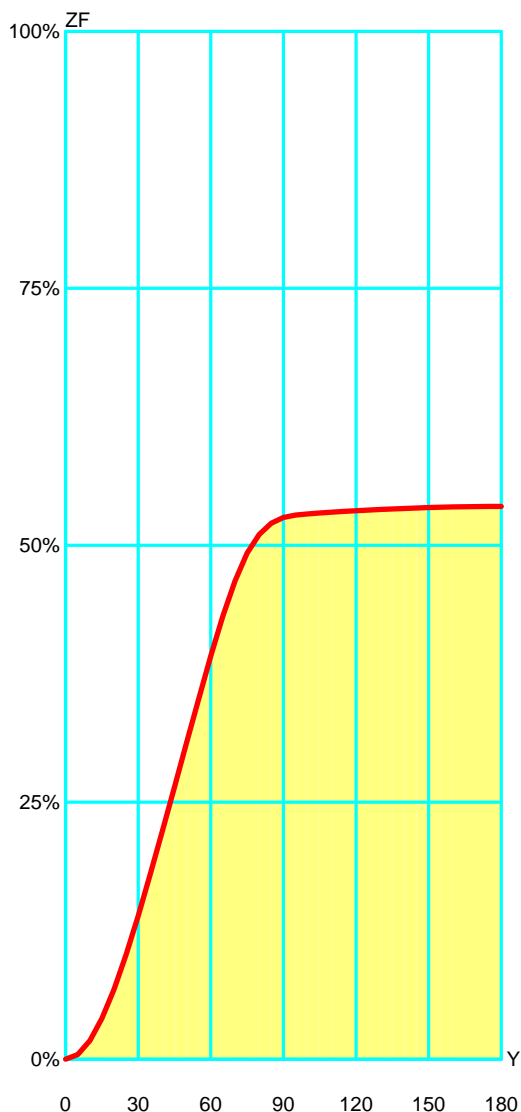
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.29	0.37	0.44	0.51	0.57	0.65	0.71	0.76	0.81	0.84	0.92	0.96
RC	5	5	5	5	6	5	5	6	5	5	5	5

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)	18	68	139	222	308	392	465	511	527	531	532	534	535	536	537	537	538	538

CIE Flux Codes
44 74 94 98 54

C.I.E. 5/5/5/5/6/5/5/6/5/5/5/5
D DIN 5040 A31
F UTE 0.53 E + 0.01 T
B NBN BZ 5
RN 2.00506 %
BLF 1.0

LOR 53.78258 %
ULOR 1.07837 %
DLOR 52.70421 %
UFF 2.00506 %
DFF 97.99494 %
FFR 2.04608 %



Zonal Flux				
Gamma °	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00 %	0.00 %
5°	4.56	4.56	0.85 %	0.85 %
10°	13.49	18.04	2.51 %	3.36 %
15°	21.65	39.69	4.02 %	7.38 %
20°	28.42	68.11	5.28 %	12.66 %
25°	33.66	101.77	6.26 %	18.92 %
30°	37.73	139.50	7.02 %	25.94 %
35°	40.58	180.08	7.54 %	33.48 %
40°	42.11	222.19	7.83 %	41.31 %
45°	42.81	265.00	7.96 %	49.27 %
50°	42.92	307.92	7.98 %	57.25 %
55°	42.67	350.59	7.93 %	65.19 %
60°	41.66	392.25	7.75 %	72.93 %
65°	39.05	431.30	7.26 %	80.19 %
70°	34.18	465.48	6.36 %	86.55 %
75°	26.88	492.36	5.00 %	91.55 %
80°	18.23	510.60	3.39 %	94.94 %
85°	10.83	521.42	2.01 %	96.95 %
90°	5.62	527.04	1.04 %	97.99 %
95°	2.36	529.40	0.44 %	98.43 %
100°	1.14	530.55	0.21 %	98.65 %
105°	0.89	531.44	0.17 %	98.81 %
110°	0.79	532.23	0.15 %	98.96 %
115°	0.71	532.93	0.13 %	99.09 %
120°	0.66	533.59	0.12 %	99.21 %
125°	0.62	534.21	0.12 %	99.33 %
130°	0.59	534.80	0.11 %	99.44 %
135°	0.54	535.34	0.10 %	99.54 %
140°	0.49	535.83	0.09 %	99.63 %
145°	0.44	536.27	0.08 %	99.71 %
150°	0.39	536.66	0.07 %	99.78 %
155°	0.34	537.00	0.06 %	99.85 %
160°	0.28	537.28	0.05 %	99.90 %
165°	0.23	537.51	0.04 %	99.94 %
170°	0.17	537.68	0.03 %	99.97 %
175°	0.10	537.77	0.02 %	99.99 %
180°	0.05	537.83	0.01 %	100.00 %

Luminaire		Measurem.		Lamp	
Code	0720	Code	0720	Code	GENIE 11W/827 E14
Name	Wall lamp short	Name	Wall lamp short	Number	1
Line	VIBIA-I.Cono	Date	08-09-2012	Position	Univesal
Efficiency	53.78%	Coordinate system	C-G	Total Flux	570.00 lm

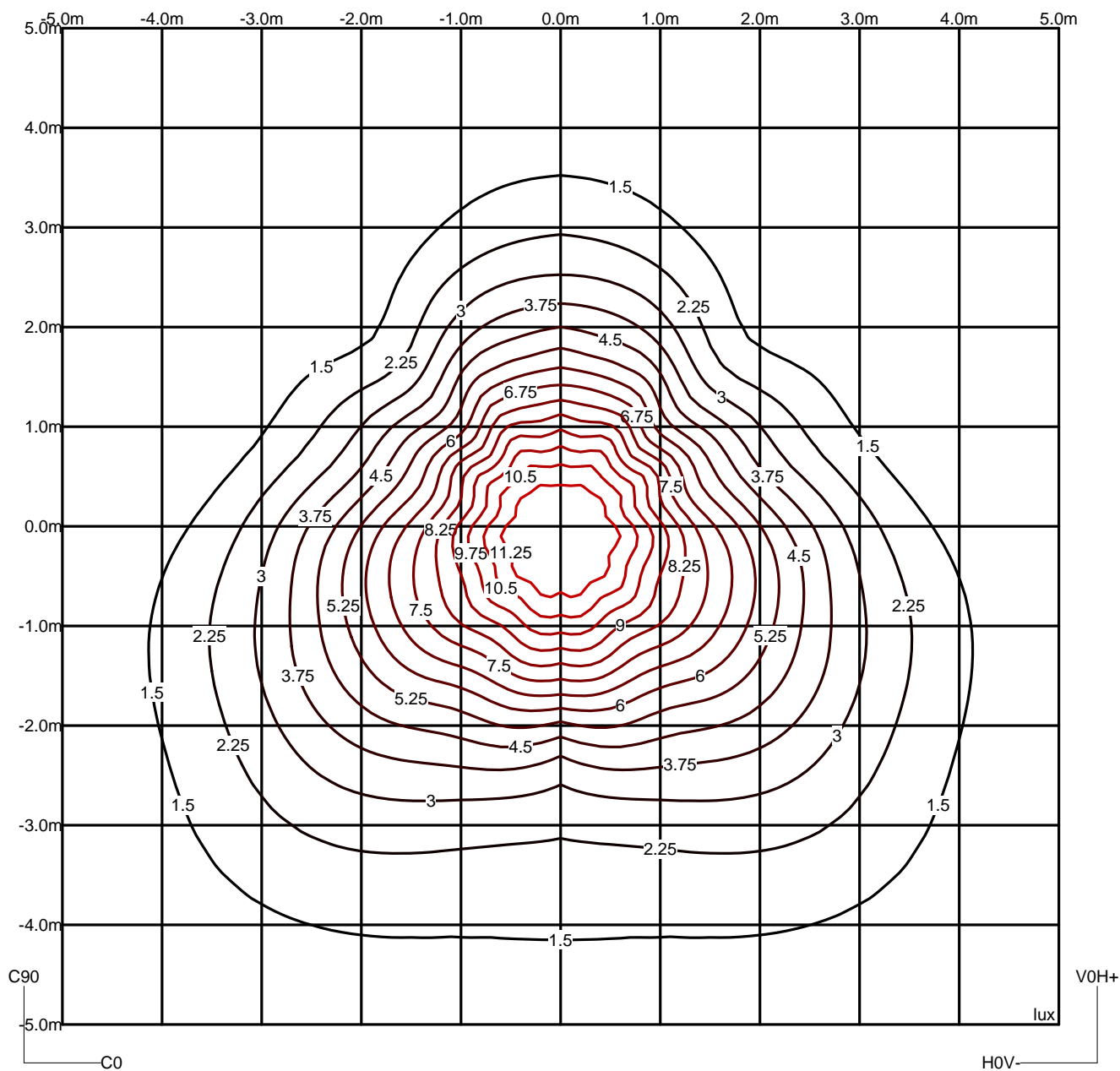
UGR
 S = 0.250

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	16.5	17.9	16.8	18.1	15.7	13.8	15.1	14.1	15.4	15.7
x=2H y=3H	17.5	18.8	17.9	19.1	17.2	15.3	16.6	15.7	16.9	17.2
x=2H y=4H	17.9	19.1	18.3	19.4	17.6	15.8	17.0	16.2	17.3	17.6
x=2H y=6H	18.2	19.3	18.6	19.6	17.7	16.0	17.1	16.4	17.4	17.7
x=2H y=8H	18.2	19.3	18.7	19.6	17.8	16.0	17.1	16.4	17.4	17.8
x=2H y=12H	18.3	19.3	18.8	19.7	17.8	16.1	17.0	16.5	17.4	17.8
x=4H y=2H	18.1	19.2	18.5	19.6	15.7	13.8	15.0	14.2	15.3	15.7
x=4H y=3H	19.3	20.3	19.7	20.6	17.4	15.6	16.6	16.0	17.0	17.4
x=4H y=4H	19.7	20.6	20.1	21.0	18.1	16.4	17.3	16.8	17.6	18.1
x=4H y=6H	20.0	20.8	20.5	21.2	18.6	16.9	17.7	17.4	18.1	18.6
x=4H y=8H	20.1	20.9	20.6	21.3	18.8	17.2	17.9	17.6	18.3	18.8
x=4H y=12H	20.2	20.9	20.7	21.3	18.9	17.4	18.0	17.9	18.5	18.9
x=8H y=4H	20.6	21.3	21.1	21.7	18.1	16.5	17.2	16.9	17.6	18.1
x=8H y=6H	21.0	21.6	21.5	22.1	18.7	17.2	17.8	17.7	18.2	18.7
x=8H y=8H	21.2	21.7	21.7	22.2	19.1	17.6	18.1	18.1	18.6	19.1
x=8H y=12H	21.3	21.8	21.9	22.3	19.6	18.2	18.6	18.7	19.1	19.6
x=12H y=4H	20.7	21.3	21.2	21.8	18.0	16.5	17.1	16.9	17.6	18.0
x=12H y=6H	21.2	21.7	21.7	22.2	18.7	17.2	17.7	17.7	18.2	18.7
x=12H y=8H	21.4	21.9	22.0	22.4	19.1	17.6	18.1	18.2	18.6	19.1

Luminaire		Measur.		Lamp	
Code	0720	Code	0720	Code	GENIE 11W/827 E14
Name	Wall lamp short	Name	Wall lamp short	Number	1
Line	VIBIA-I.Cono	Date	08-09-2012	Position	Univesal
Efficiency	53.78%	Coordinate system	C-G	Total Flux	570.00 lm

Isolux (Floor)

Luminaire position X=0.00m Y=0.00m Z=3.00m



Luminaire				Measurem.				Lamp			
Code	0720			Code	0720			Code	GENIE 11W/827 E14		
Name	Wall lamp short			Name	Wall lamp short			Number	1		
Line	VIBIA-I.Cono			Date	08-09-2012			Position	Univesal		
Efficiency	53.78%	Coordinate system				C-G	Total Flux				570.00 lm

Utilizations CIE

Mounting	Direct				114-Norm type Normalised							Suspension Ratio 1/3							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	125	112	101	91	107	87	67	57	54	46	32	24	16	11	43	26	23	13	11	22	11	10	4		
0.80	145	133	109	100	126	96	83	73	62	55	38	30	20	15	51	32	29	17	14	27	15	13	5		
1.00	158	147	111	104	140	99	96	86	67	60	42	35	24	18	56	36	33	20	17	32	18	16	5		
1.25	169	159	110	104	151	100	109	99	70	64	46	39	28	22	60	40	37	24	21	36	22	19	6		
1.50	177	168	108	104	160	100	119	110	72	66	49	43	31	26	63	43	41	28	24	39	25	23	6		
2.00	187	179	103	100	171	96	135	126	73	69	53	48	36	31	65	48	45	33	30	44	30	28	7		
2.50	193	187	98	96	178	93	146	138	73	69	55	51	40	36	66	51	49	37	35	47	35	32	8		
3.00	197	192	95	93	183	90	154	147	72	70	57	53	44	39	66	53	51	41	38	49	38	36	8		
4.00	203	199	90	88	190	86	166	160	72	70	60	56	48	45	67	56	54	45	43	52	43	41	9		
5.00	207	203	86	85	195	83	174	169	72	70	61	58	52	48	67	58	57	49	47	55	46	44	9		
10.00	214	212	78	78	204	77	192	189	70	70	65	63	59	57	67	62	61	57	56	60	55	53	10		
20.00	218	217	74	73	209	72	203	201	69	69	66	66	63	62	67	64	64	62	61	62	60	58	10		

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	253	246	223	218	243	215	191	187	174	170	146	142	125	123	168	143	142	124	123	141	123	123	112											
0.80	288	280	246	241	275	238	224	218	198	195	170	167	149	147	192	167	165	147	146	164	146	145	133											
1.00	311	304	260	256	297	252	248	242	215	211	188	184	167	164	208	184	182	165	163	181	163	162	148											
1.25	332	325	271	267	317	263	270	264	230	226	204	200	183	180	222	199	198	181	179	196	179	177	161											
1.50	347	341	278	275	331	270	288	281	240	237	216	212	196	193	232	211	209	193	192	207	191	189	172											
2.00	364	358	282	280	347	275	309	303	250	247	229	225	211	208	241	223	222	208	206	219	205	202	183											
2.50	373	368	283	281	356	276	323	317	255	253	237	233	221	218	247	231	229	217	215	226	213	210	189											
3.00	379	375	283	281	362	276	332	327	258	255	241	238	227	224	249	235	234	222	221	230	219	215	193											
4.00	389	385	284	283	371	278	347	342	263	261	250	247	237	235	255	243	242	232	231	237	228	224	200											
5.00	395	392	285	284	378	279	357	352	267	265	255	253	245	242	258	248	247	239	238	242	234	230	205											
10.00	407	405	284	283	389	279	377	374	272	271	265	264	259	257	264	258	257	252	251	251	246	241	214											
20.00	403	403	273	273	385	269	379	377	265	265	262	261	258	257	257	254	254	251	250	247	244	238	209											

Working Pl.

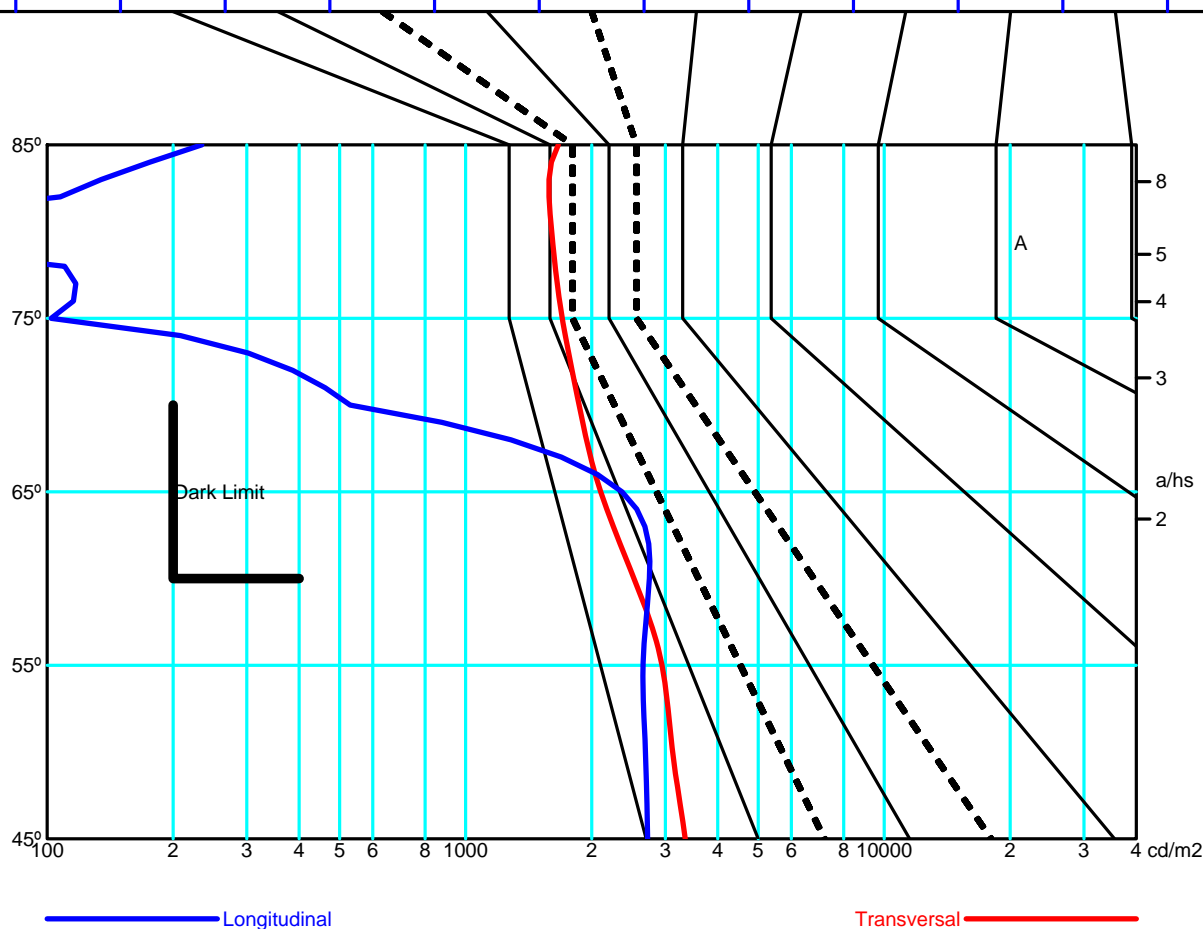
K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000											
0.60	311	304	290	285	299	281	237	232	228	224	192	189	166	164	222	189	188	164	163	187	163	163	153											
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1.00	412	403	375	370	394	364	332	325	314	310	277	273	249	245	304	272	270	246	244	268	244	242	232											
1.25	454	445	409	404	434	397	375	368	352	347	316	311	288	284	340	309	307	284	282	304	281	279	269											
1.50	486	478	434	429	465	422	409	401	380	376	346	341	319	315	368	339	337	314	312	333	311	308	298											
2.00	532	525	469	466	510	458	461	453	422	418	393	388	368	364	409	384	382	362	360	377	358	354	344											
2.50	563	557	491	489	539	481	496	488	450	447	424	420	402	397	437	415	413	395	393	406	389	384	376											
3.00	585	579	507	504	560	496	522	515	470	467	447	443	427	422	456	437	435	419	417	428	413	407	398											
4.00	613	608	525	524	587	515	555	549	495	492	476	472	459	454	480	464	463	450	447	454	442	435	427											
5.00	630	626	537	535	603	527	577	571	510	508	494	490	479	475	495	482	480	469	467	471	461	453	445											
10.00	666	664	560	559	639	551	624	620	542	540	533	531	524	521	527	520	519	512	511	508	502	491	484											
20.00	686	684	571	571	658	563	650	648	559	558	554	553	550	548	544	540	540	537	536	527	524	513	506											

LM53 SHR C0-C180: 1.178 SHR C90-C270: 1.052 SHR Square: 0.962

Luminaire		Measurem.		Lamp	
Code	0720	Code	0720	Code	GENIE 11W/827 E14
Name	Wall lamp short	Name	Wall lamp short	Number	1
Line	VIBIA-I.Cono	Date	08-09-2012	Position	Univesal
Efficiency	53.78%	Coordinate system	C-G	Total Flux	570.00 lm

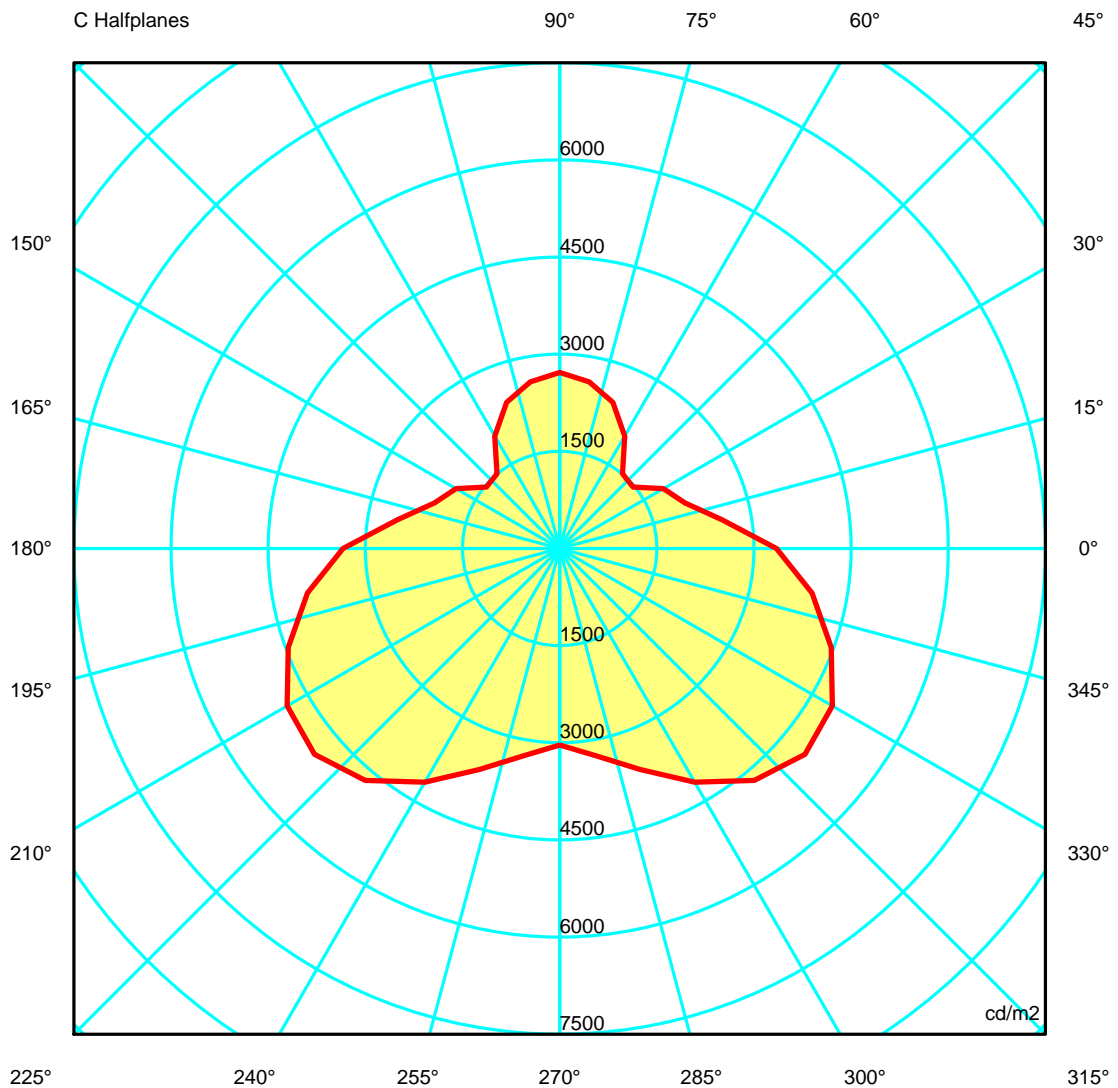
	Average Luminance [cd/m²]									
	45°	50°	55°	60°	65°	70°	75°	80°	85°	
270°	3033.9	3476.8	4194.4	5282.6	6463.3	7864.5	7366.5	6769.8	7837.2	---
0°	3345.8	3122.0	2945.6	2525.6	2101.8	1866.9	1701.6	1605.4	1665.1	---
90°	2719.8	2689.0	2653.5	2746.9	2362.7	530.0	102.3	91.3	234.2	---

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



Luminaire		Measur.		Lamp	
Code	0720	Code	0720	Code	GENIE 11W/827 E14
Name	Wall lamp short	Name	Wall lamp short	Number	1
Line	VIBIA-I.Cono	Date	08-09-2012	Position	Univesal
Efficiency	53.78%	Coordinate system	C-G	Total Flux	570.00 lm

Luminance												
G/C	0	30	60	90	120	150	180	210	240	270	300	330
0°	3833.91	3833.91	3833.91	3833.91	3833.91	3833.91	3833.91	3833.91	3833.91	3833.91	3833.91	3833.91
5°	3863.73	3833.57	3785.21	3768.80	3785.21	3833.57	3863.73	3882.78	3870.09	3883.28	3870.09	3882.78
10°	3823.77	3778.29	3740.52	3662.37	3740.52	3778.29	3823.77	3827.09	3905.70	3913.16	3905.70	3827.09
15°	3708.20	3624.37	3653.21	3556.07	3653.21	3624.37	3708.20	3766.75	3856.13	3943.49	3856.13	3766.75
20°	3553.30	3384.51	3471.35	3426.62	3471.35	3384.51	3553.30	3692.82	3783.92	3925.48	3783.92	3692.82
25°	3427.62	2975.05	3185.04	3217.83	3185.04	2975.05	3427.62	3849.98	3734.26	3825.38	3734.26	3849.98
30°	3478.70	2647.15	2910.81	3084.79	2910.81	2647.15	3478.70	4060.10	3720.22	3678.10	3720.22	4060.10
35°	3497.88	2337.81	2536.47	2936.40	2536.47	2337.81	3497.88	4286.02	3733.10	3206.91	3733.10	4286.02
40°	3490.72	2070.39	2249.00	2777.25	2249.00	2070.39	3490.72	4527.77	3891.74	2912.79	3891.74	4527.77
45°	3345.81	1848.39	2004.64	2719.81	2004.64	1848.39	3345.81	4859.40	4164.28	3033.88	4164.28	4859.40
50°	3121.99	1581.92	1708.20	2689.03	1708.20	1581.92	3121.99	5082.32	4593.88	3476.84	4593.88	5082.32
55°	2945.58	1436.66	1570.75	2653.47	1570.75	1436.66	2945.58	5234.12	5248.06	4194.36	5248.06	5234.12
60°	2525.57	1402.89	1430.88	2746.95	1430.88	1402.89	2525.57	5172.01	6025.25	5282.57	6025.25	5172.01
65°	2101.76	1322.18	1300.44	2362.67	1300.44	1322.18	2101.76	4728.63	6832.28	6463.30	6832.28	4728.63
70°	1866.89	1266.62	1244.30	530.03	1244.30	1266.62	1866.89	4218.17	6816.73	7864.47	6816.73	4218.17
75°	1701.56	1273.29	1160.38	102.25	1160.38	1273.29	1701.56	3418.98	6368.47	7366.54	6368.47	3418.98
80°	1605.45	1246.13	1146.68	91.33	1146.68	1246.13	1605.45	2685.40	4722.19	6769.84	4722.19	2685.40
85°	1665.05	1645.76	1466.66	234.20	1466.66	1645.76	1665.05	2652.67	4668.39	7837.22	4668.39	2652.67



45.0°