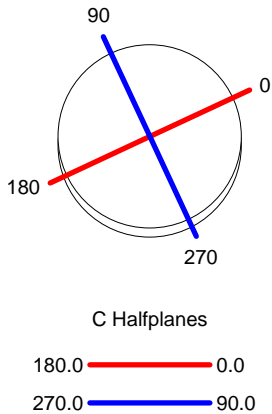


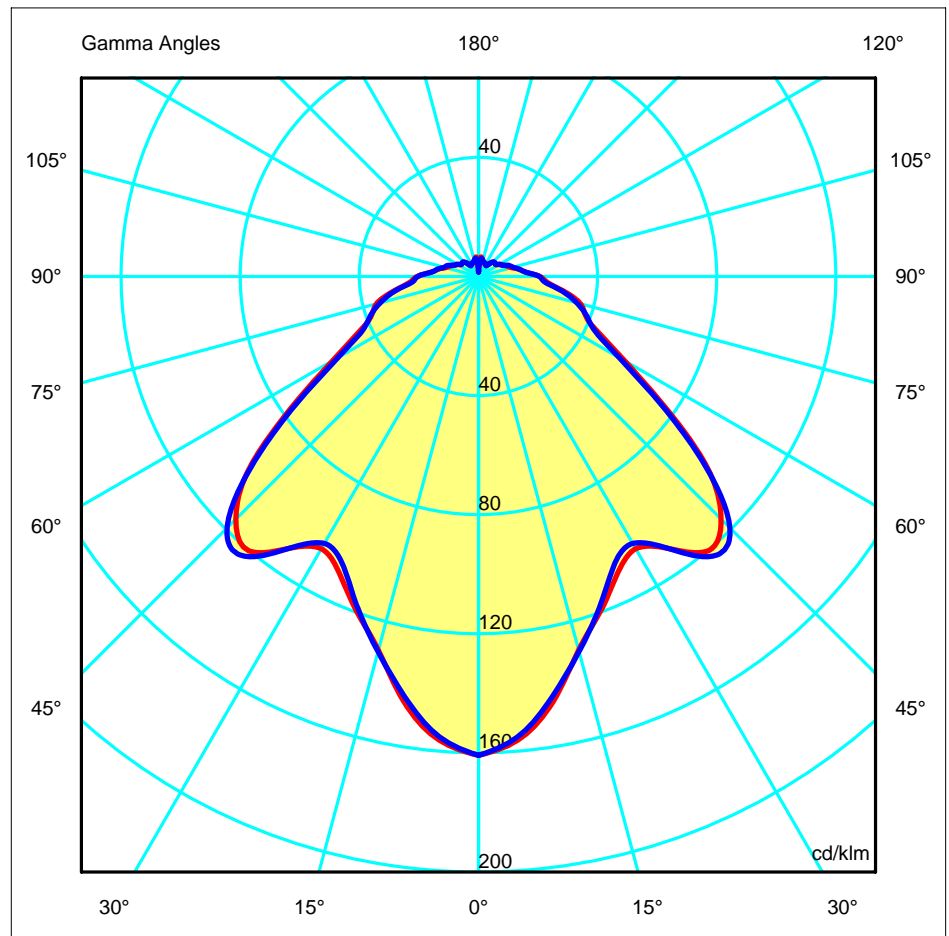
Luminaire		Measur.		Lamp			
Code	ALGORITHM 1 BOLA	Code	ALGORITHM 1 BOLA	Code	1 LED XPGZ 3W		
Name	1 bola ALGORITHM led 3W	Name	1 bola ALGORITHM led 3W	Number	1		
Line	VIBIA-Algorithm	Date	21-12-2015	Position	Universal		
Luminaire Flux	154.85 lm	Luminaire Power	3.00 W	Efficacy	51.62 lm/W	Efficiency	49.59%
Lamps Flux	312.28 lm	Maximum value	160.78 cd/klm	Position	C=0.00 G=0.00	CG Double Symmetrical	
Round Luminaire		Diam.	90 mm	Height	95 mm		
Round Luminous Area		Diam.	90 mm	Height	70 mm		
Horizontal Luminous Area	0.006362 m2	Emitting area on Plane 180°		0.006300 m2			
Emitting area on Plane 0°	0.006300 m2	Emitting area on Plane 270°		0.006300 m2			
Emitting area on Plane 90°	0.006300 m2	Glare area at 76°		0.007652 m2			
Coordinate system	CG	Symmetry Type		Double Symmetrical			
Date	21-12-2015	Maximum Gamma Angle		180			
Measurement Distance	6.44	Measurement Flux		312.28 lm			
Operator	Asselum T2	Source voltage		230.00 V			
Temperature	25.00 °C	Source current					
Humidity	55.00 %	Photocell		Prc			
Notes							

Line	Code	Luminaire Lamps	Flux [lm]	Pow. [W]	Q.ty
- VIBIA	1 LED XPGZ 3W	Name Lámpara 1 led 3W	312.28	3.00	1
C.I.E.	42 75 91 88 50	D DIN 5040	B31		
F UTE	0.44 E + 0.06 T	B NBN	BZ 5		

Diam=90mm



ULOR 5.94 %
DLOR 43.65 %
RN 11.98 %



Luminaire		Measurem.		Lamp	
Code	ALGORITHM 1 BOLA	Code	ALGORITHM 1 BOLA	Code	1 LED XPGZ 3W
Name	1 bola ALGORITHM led 3W	Name	1 bola ALGORITHM led 3W	Number	1
Line	VIBIA-Algorithm	Date	21-12-2015	Position	Universal

Luminaire Flux	154.85 lm	Luminaire Power	3.00 W	Efficacy	51.62 lm/W	Efficiency	49.59%
Lamps Flux	312.28 lm	Maximum value	160.78 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Luminous Intensity Table cd/klm Table 1/1

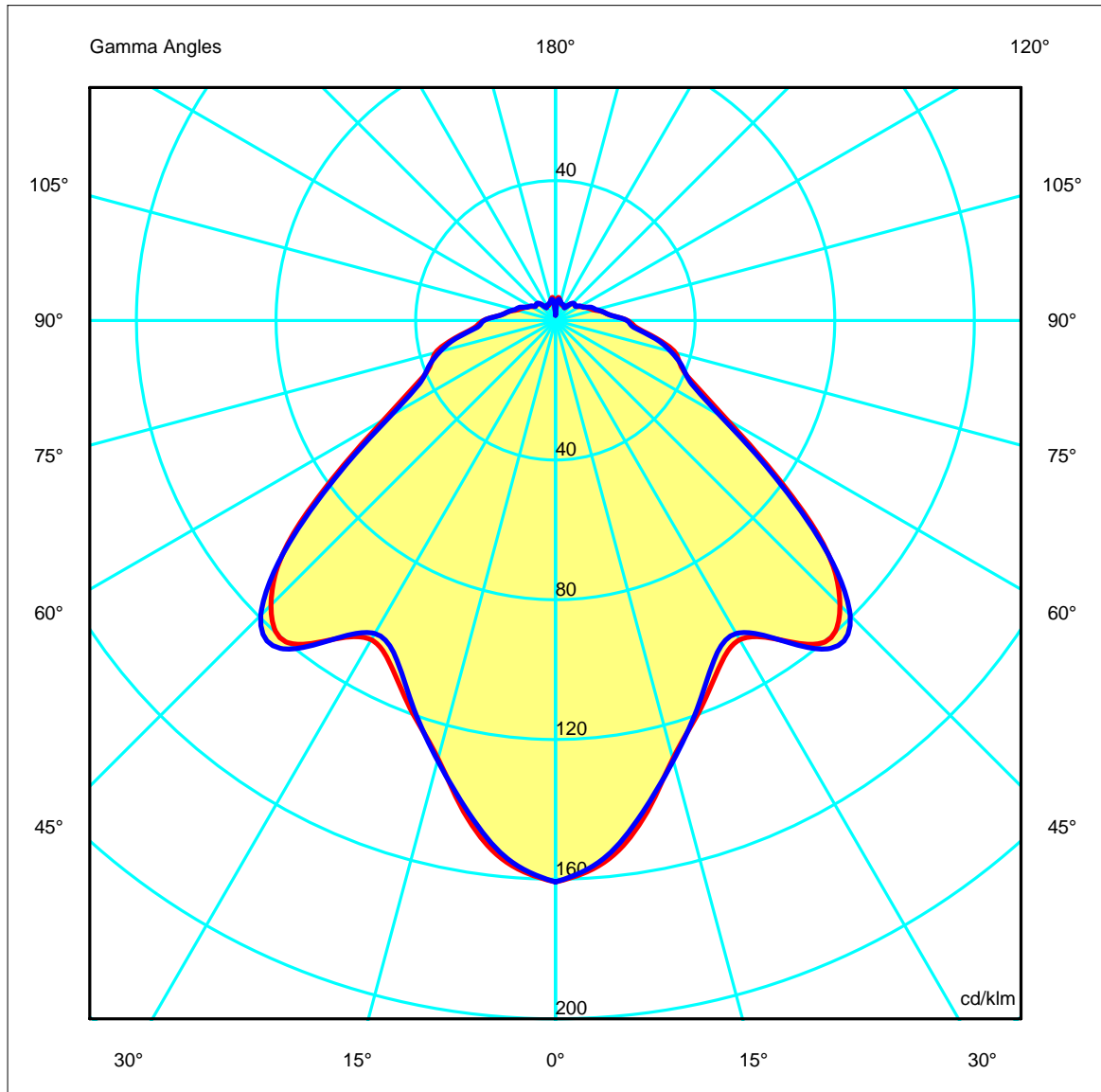
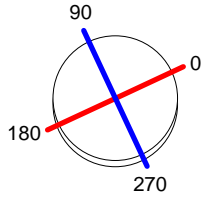
	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	160.78	160.78	160.78	160.78	160.78	160.78	160.78
G 5.0	156.00	155.95	156.35	155.31	156.03	155.14	154.89
G 10.0	144.81	144.33	143.54	144.39	142.60	142.66	143.17
G 15.0	129.91	132.93	129.59	129.87	129.33	129.75	130.42
G 20.0	119.63	122.49	117.54	119.61	116.16	116.14	118.49
G 25.0	110.27	113.09	108.29	109.73	106.41	106.67	107.38
G 30.0	105.58	107.73	104.25	105.61	103.25	104.14	103.53
G 35.0	111.53	111.67	111.79	111.21	112.67	112.29	111.58
G 40.0	120.15	114.03	120.94	118.26	123.20	122.81	122.58
G 45.0	115.20	106.78	117.49	112.04	123.96	125.80	119.37
G 50.0	100.60	92.47	101.20	98.72	102.04	103.61	99.91
G 55.0	76.42	80.44	75.85	76.95	74.29	73.51	74.84
G 60.0	56.87	59.27	53.99	57.14	51.76	51.27	54.52
G 65.0	44.24	46.50	43.61	44.51	43.04	42.89	43.06
G 70.0	38.22	39.63	38.87	39.09	39.13	39.20	38.67
G 75.0	35.50	34.65	34.73	34.54	34.05	32.74	34.17
G 80.0	29.30	28.86	28.71	28.84	28.81	29.34	28.68
G 85.0	23.27	23.66	23.42	23.46	23.87	24.31	22.48
G 90.0	20.67	20.25	20.44	20.13	20.19	19.88	20.45
G 95.0	16.07	16.01	16.35	16.35	16.77	17.46	16.06
G100.0	13.97	13.67	13.96	13.99	14.11	14.05	14.01
G105.0	11.50	11.54	11.66	11.80	12.01	12.11	11.97
G110.0	10.18	10.31	10.35	10.69	10.83	10.85	10.97
G115.0	9.07	8.87	8.86	8.93	8.81	8.80	8.92
G120.0	7.99	8.18	7.99	8.12	8.10	8.30	8.28
G125.0	6.98	7.23	7.06	7.18	7.22	7.26	7.04
G130.0	7.17	7.14	7.21	7.19	7.23	7.03	7.07
G135.0	6.83	6.70	6.87	6.79	7.10	6.84	6.98
G140.0	5.76	5.37	5.70	5.64	5.62	5.47	5.54
G145.0	4.45	4.59	4.52	4.74	4.62	4.87	4.45
G150.0	4.79	4.67	4.87	4.78	4.83	4.89	4.99
G155.0	4.72	4.84	4.79	4.92	4.89	5.02	4.99
G160.0	4.99	5.08	5.07	5.15	5.12	5.23	5.13
G165.0	5.55	5.63	5.58	5.69	5.62	5.71	5.62
G170.0	6.40	6.29	6.24	6.34	6.24	6.24	6.13
G175.0	6.07	5.09	5.95	4.72	5.62	4.41	5.25
G180.0	1.51	1.51	1.51	1.51	1.51	1.51	1.51

Luminaire		Measurem.		Lamp			
Code	ALGORITHM 1 BOLA	Code	ALGORITHM 1 BOLA	Code	1 LED XPGZ 3W		
Name	1 bola ALGORITHM led 3W	Name	1 bola ALGORITHM led 3W	Number	1		
Line	VIBIA-Algorithm	Date	21-12-2015	Position	Universal		
Luminaire Flux	154.85 lm	Luminaire Power	3.00 W	Efficacy	51.62 lm/W	Efficiency	49.59%
Lamps Flux	312.28 lm	Maximum value	160.78 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=90mm

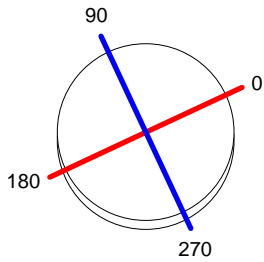
C Halfplanes

180.0 ——— 0.0
 270.0 ——— 90.0



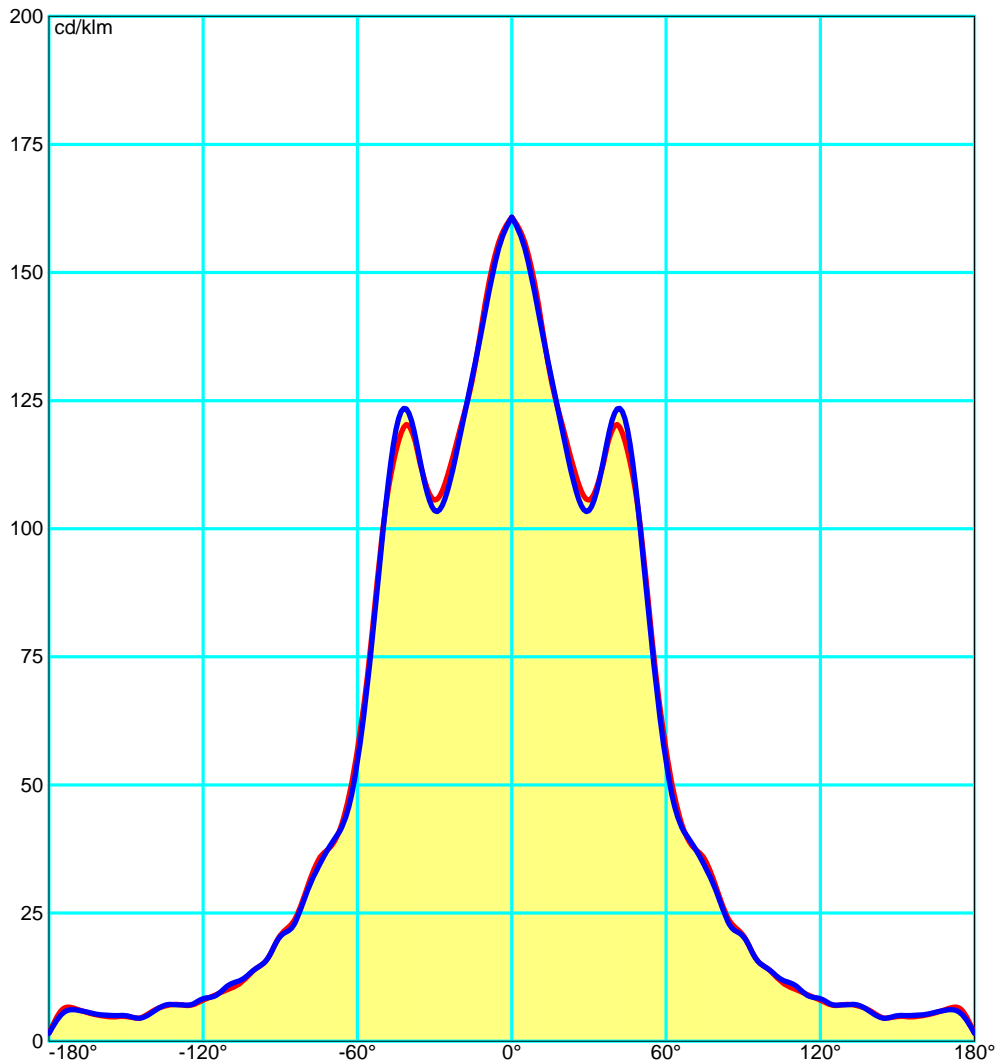
Luminaire		Measurem.		Lamp			
Code	ALGORITHM 1 BOLA	Code	ALGORITHM 1 BOLA	Code	1 LED XPGZ 3W		
Name	1 bola ALGORITHM led 3W	Name	1 bola ALGORITHM led 3W	Number	1		
Line	VIBIA-Algorithm	Date	21-12-2015	Position	Universal		
Luminaire Flux	154.85 lm	Luminaire Power	3.00 W	Efficacy	51.62 lm/W	Efficiency	49.59%
Lamps Flux	312.28 lm	Maximum value	160.78 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=90mm



C Halfplanes

180.0 — 0.0
270.0 — 90.0



Luminaire		Measurement				Lamp	
Code	ALGORITHM 1 BOLA	Code	ALGORITHM 1 BOLA	Code	1 LED XPGZ 3W	Number	1
Name	1 bola ALGORITHM led 3W	Name	1 bola ALGORITHM led 3W	Position	Universal		
Line	VIBIA-Algorithm	Date	21-12-2015				
Luminaire Flux	154.85 lm	Luminaire Power	3.00 W	Efficacy	51.62 lm/W	Efficiency	49.59%
Lamps Flux	312.28 lm	Maximum value	160.78 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					ViewedEndwise				
x=2H y=2H	15.1	16.3	15.5	16.7	17.1	15.0	16.2	15.4	16.7	17.1
x=2H y=3H	16.1	17.2	16.6	17.7	18.1	15.9	17.1	16.5	17.5	18.1
x=2H y=4H	16.6	17.7	17.1	18.2	18.6	16.5	17.5	17.0	18.0	18.6
x=2H y=6H	17.2	18.2	17.7	18.7	19.1	17.0	18.0	17.6	18.5	19.1
x=2H y=8H	17.4	18.4	18.0	18.9	19.3	17.3	18.2	17.8	18.7	19.3
x=2H y=12H	17.6	18.5	18.2	19.1	19.5	17.5	18.4	18.1	18.9	19.5
x=4H y=2H	15.4	16.5	15.9	17.0	17.5	15.4	16.4	15.9	16.9	17.5
x=4H y=3H	16.7	17.6	17.2	18.1	18.6	16.6	17.5	17.1	18.0	18.6
x=4H y=4H	17.4	18.2	18.0	18.8	19.3	17.3	18.1	17.9	18.7	19.3
x=4H y=6H	18.2	18.9	18.7	19.4	20.0	18.0	18.7	18.6	19.3	20.0
x=4H y=8H	18.5	19.1	19.1	19.7	20.3	18.4	19.0	19.0	19.6	20.3
x=4H y=12H	18.8	19.4	19.4	20.0	20.6	18.7	19.3	19.3	19.9	20.6
x=8H y=4H	17.7	18.4	18.3	19.0	19.5	17.6	18.3	18.2	18.9	19.5
x=8H y=6H	18.6	19.2	19.3	19.8	20.4	18.5	19.1	19.2	19.7	20.4
x=8H y=8H	19.1	19.6	19.8	20.2	20.9	19.0	19.5	19.7	20.2	20.9
x=8H y=12H	19.5	20.0	20.2	20.6	21.3	19.5	19.9	20.2	20.6	21.3
x=12H y=4H	17.8	18.4	18.4	19.0	19.5	17.7	18.3	18.3	18.9	19.5
x=12H y=6H	18.7	19.2	19.4	19.9	20.5	18.7	19.1	19.3	19.8	20.5
x=12H y=8H	19.2	19.7	19.9	20.3	21.0	19.2	19.6	19.9	20.3	21.0

Luminaire		Measur.		Lamp			
Code	ALGORITHM 1 BOLA	Code	ALGORITHM 1 BOLA	Code	1 LED XPGZ 3W		
Name	1 bola ALGORITHM led 3W	Name	1 bola ALGORITHM led 3W	Number	1		
Line	VIBIA-Algorithm	Date	21-12-2015	Position	Universal		
Luminaire Flux	154.85 lm	Luminaire Power	3.00 W	Efficacy	51.62 lm/W	Efficiency	49.59%
Lamps Flux	312.28 lm	Maximum value	160.78 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

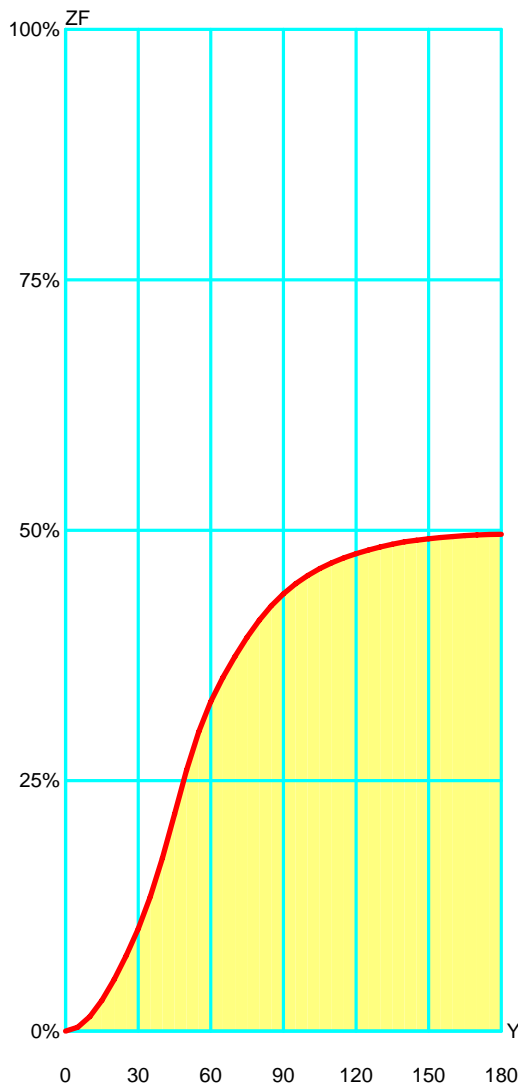
Total Flux=312.28 Luminaire Flux=154.85

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	0.26	0.35	0.42	0.50	0.55	0.64	0.69	0.73	0.78	0.81	0.89	0.93
RC	6	6	6	6	6	6	6	6	6	6	7	7

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)	14	51	102	173	261	329	374	410	436	455	468	477	483	488	492	494	495	496

CIE Flux Codes
42 75 91 88 50

C.I.E.	6/6/6/6/6/6/6/6/7/7	LOR	49.58659 %
D DIN 5040	B31	ULOR	5.94022 %
F UTE	0.44 E + 0.06 T	DLOR	43.64636 %
B NBN	BZ 5	UFF	11.97950 %
RN	11.97950 %	DFF	88.02050 %
BLF	1.0	FFR	13.60990 %



Zonal Flux				
Gamma °	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00%	0.00 %
5°	3.78	3.78	0.76 %	0.76 %
10°	10.71	14.49	2.16 %	2.92 %
15°	16.25	30.74	3.28 %	6.20 %
20°	20.50	51.24	4.13 %	10.33 %
25°	23.84	75.08	4.81 %	15.14 %
30°	27.05	102.13	5.46 %	20.60 %
35°	31.92	134.06	6.44 %	27.03 %
40°	38.70	172.76	7.80 %	34.84 %
45°	43.94	216.70	8.86 %	43.70 %
50°	43.84	260.54	8.84 %	52.54 %
55°	38.23	298.77	7.71 %	60.25 %
60°	30.27	329.04	6.11 %	66.36 %
65°	24.04	353.08	4.85 %	71.20 %
70°	21.04	374.12	4.24 %	75.45 %
75°	19.16	393.28	3.86 %	79.31 %
80°	16.91	410.19	3.41 %	82.72 %
85°	14.27	424.46	2.88 %	85.60 %
90°	12.00	436.46	2.42 %	88.02 %
95°	10.06	446.52	2.03 %	90.05 %
100°	8.28	454.80	1.67 %	91.72 %
105°	6.90	461.70	1.39 %	93.11 %
110°	5.86	467.55	1.18 %	94.29 %
115°	4.93	472.48	0.99 %	95.28 %
120°	4.14	476.62	0.83 %	96.12 %
125°	3.54	480.16	0.71 %	96.83 %
130°	3.11	483.27	0.63 %	97.46 %
135°	2.83	486.10	0.57 %	98.03 %
140°	2.30	488.41	0.46 %	98.50 %
145°	1.70	490.11	0.34 %	98.84 %
150°	1.39	491.50	0.28 %	99.12 %
155°	1.23	492.73	0.25 %	99.37 %
160°	1.05	493.78	0.21 %	99.58 %
165°	0.89	494.67	0.18 %	99.76 %
170°	0.71	495.37	0.14 %	99.90 %
175°	0.41	495.79	0.08 %	99.98 %
180°	0.08	495.87	0.02 %	100.00 %

Luminaire				Measur.				Lamp			
Code	ALGORITHM 1 BOLA			Code	ALGORITHM 1 BOLA			Code	1 LED XPGZ 3W		
Name	1 bola ALGORITHM led 3W			Name	1 bola ALGORITHM led 3W			Number	1		
Line	VIBIA-Algorithm			Date	21-12-2015			Position	Universal		
Luminaire Flux	154.85 lm			Luminaire Power	3.00 W			Efficacy	51.62 lm/W		
Lamps Flux	312.28 lm			Maximum value	160.78 cd/klm			Position	C=0.00 G=0.00		
								Efficiency	49.59%		
								CG	Double Symmetrical		

Utilizations CIE

Mounting	Direct	Normalization										Normalised										Suspension Ratio 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	150	135	129	117	128	111	92	78	82	70	62	47	47	32	65	50	44	39	31	42	33	28	22	0.80	170	156	138	128	148	122	109	96	92	81	70	56	54	39	75	58	53	45	38	50	39	34	26	1.00	183	171	142	133	162	127	123	110	98	88	76	63	59	45	82	65	59	51	43	56	45	40	30	1.25	195	184	143	135	175	130	136	124	103	94	81	69	64	52	88	71	66	57	49	63	50	45	33	1.50	203	193	143	136	184	131	147	135	106	98	85	74	69	57	92	75	71	61	54	68	55	50	36	2.00	214	206	140	135	196	131	163	153	109	103	91	81	75	65	97	82	78	69	62	75	63	58	40	2.50	221	214	137	133	204	129	174	165	110	105	94	86	80	71	100	86	83	74	68	79	68	64	42	3.00	226	220	135	132	210	128	183	174	111	107	97	90	84	75	102	89	86	78	73	83	73	68	45	4.00	232	228	132	130	218	126	195	188	113	109	100	95	89	82	105	94	91	84	79	88	79	75	48	5.00	237	233	130	128	223	125	203	197	113	110	102	98	92	86	106	97	94	88	84	91	83	79	50	10.00	245	243	124	123	233	121	220	217	114	112	107	104	100	97	109	103	101	97	95	99	93	90	54	20.00	248	247	119	119	238	117	230	228	113	112	109	108	105	103	110	106	105	102	101	103	99	96	57
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	230	222	204	198	218	194	171	165	157	152	132	126	113	108	149	126	124	110	107	123	108	106	97	0.80	261	252	225	219	246	214	200	193	179	173	153	147	134	128	169	147	145	130	127	142	127	124	113	1.00	282	274	238	232	266	227	222	214	194	188	169	162	150	144	183	162	159	145	142	157	141	138	126	1.25	302	294	248	243	284	237	243	235	207	202	184	177	165	159	196	176	173	160	156	170	155	151	137	1.50	317	309	256	251	299	245	259	252	218	213	196	189	178	171	206	187	184	171	168	180	166	162	147	2.00	335	329	263	260	316	253	282	274	230	226	211	205	195	188	218	201	199	187	183	193	181	176	158	2.50	349	343	269	266	330	260	299	292	240	236	222	217	207	201	227	212	210	199	196	204	192	186	168	3.00	360	355	274	272	340	265	312	305	247	244	231	226	218	212	234	221	219	209	206	212	201	195	175	4.00	378	374	285	283	358	276	335	329	262	259	248	244	236	231	248	237	235	227	224	227	218	211	190	5.00	394	391	296	294	374	287	353	348	274	272	263	259	252	247	261	251	250	242	239	241	233	225	203	10.00	444	442	334	333	423	326	410	407	318	317	310	308	303	300	305	298	297	292	290	287	282	272	247	20.00	492	491	376	376	472	369	464	462	364	363	359	358	354	352	351	346	346	342	341	335	331	320	295
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	265	256	247	240	251	236	195	188	188	182	155	149	131	126	178	149	147	128	125	145	125	123	114	0.80	320	310	294	287	302	281	245	237	234	227	200	193	175	168	222	192	189	169	166	186	165	162	153	1.00	362	352	330	323	341	315	286	277	270	264	237	229	211	203	256	227	224	204	200	220	199	195	185	1.25	401	391	362	355	379	346	326	316	305	298	273	264	248	239	289	261	258	239	234	252	232	227	217	1.50	431	421	385	379	406	369	356	346	331	324	300	291	275	266	313	287	284	266	261	277	258	251	241	2.00	473	465	417	412	447	401	402	393	369	363	342	333	319	309	349	326	323	307	302	314	297	288	278	2.50	500	493	437	432	473	421	433	424	393	388	369	360	348	338	372	352	349	334	329	338	323	313	302	3.00	520	513	450	447	491	435	455	447	410	405	388	380	369	360	389	370	367	354	349	355	341	330	320	4.00	544	539	467	464	515	452	485	477	431	427	413	406	396	388	409	394	391	379	375	377	365	352	342	5.00	560	555	477	475	530	463	503	497	445	441	428	423	413	406	422	408	406	396	392	391	380	366	355	10.00	593	591	498	497	562	485	546	542	474	472	463	460	454	449	451	442	440	434	431	422	415	398	387	20.00	613	611	511	510	581	498	572	569	491	490	485	483	479	476	468	462	462	457	456	441	437	418	407

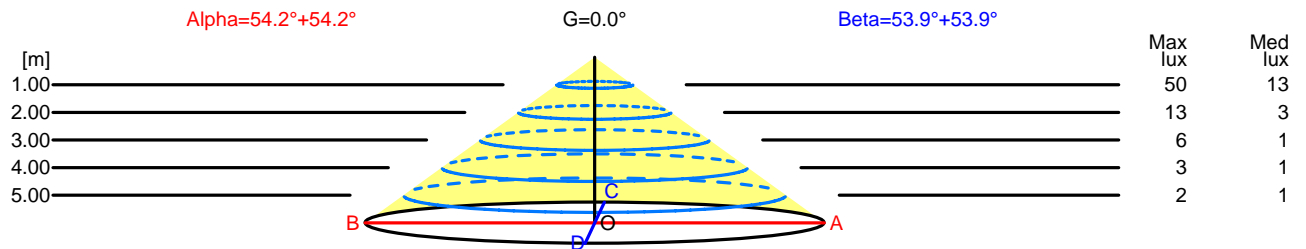
LM53 SHR C0-C180: 0.954 SHR C90-C270: 0.922 SHR Square: 1.408

Luminaire		Measur.				Lamp	
Code	ALGORITHM 1 BOLA	Code	ALGORITHM 1 BOLA	Code	1 LED XPGZ 3W	Code	1 LED XPGZ 3W
Name	1 bola ALGORITHM led 3W	Name	1 bola ALGORITHM led 3W	Number	1	Number	1
Line	VIBIA-Algorithm	Date	21-12-2015	Position	Universal	Position	Universal
Luminaire Flux	154.85 lm	Luminaire Power	3.00 W	Efficacy	51.62 lm/W	Efficiency	49.59%
Lamps Flux	312.28 lm	Maximum value	160.78 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	1.39	2.77	4.16	5.54	6.93	OC	1.37	2.74	4.11	5.48	6.85
OB	1.39	2.77	4.16	5.54	6.93	OD	1.37	2.74	4.11	5.48	6.85

				Luminous Intensities [cd/klm]						
				25	35	45	55	65	75	85
OA	50.21	48.72	40.57	34.43	34.83	35.97	23.86	13.82	11.09	7.27
OB	50.21	48.72	40.57	34.43	34.83	35.97	23.86	13.82	11.09	7.27
OC	50.21	48.37	40.73	33.53	34.85	37.28	23.37	13.45	10.67	7.02
OD	50.21	48.37	40.73	33.53	34.85	37.28	23.37	13.45	10.67	7.02



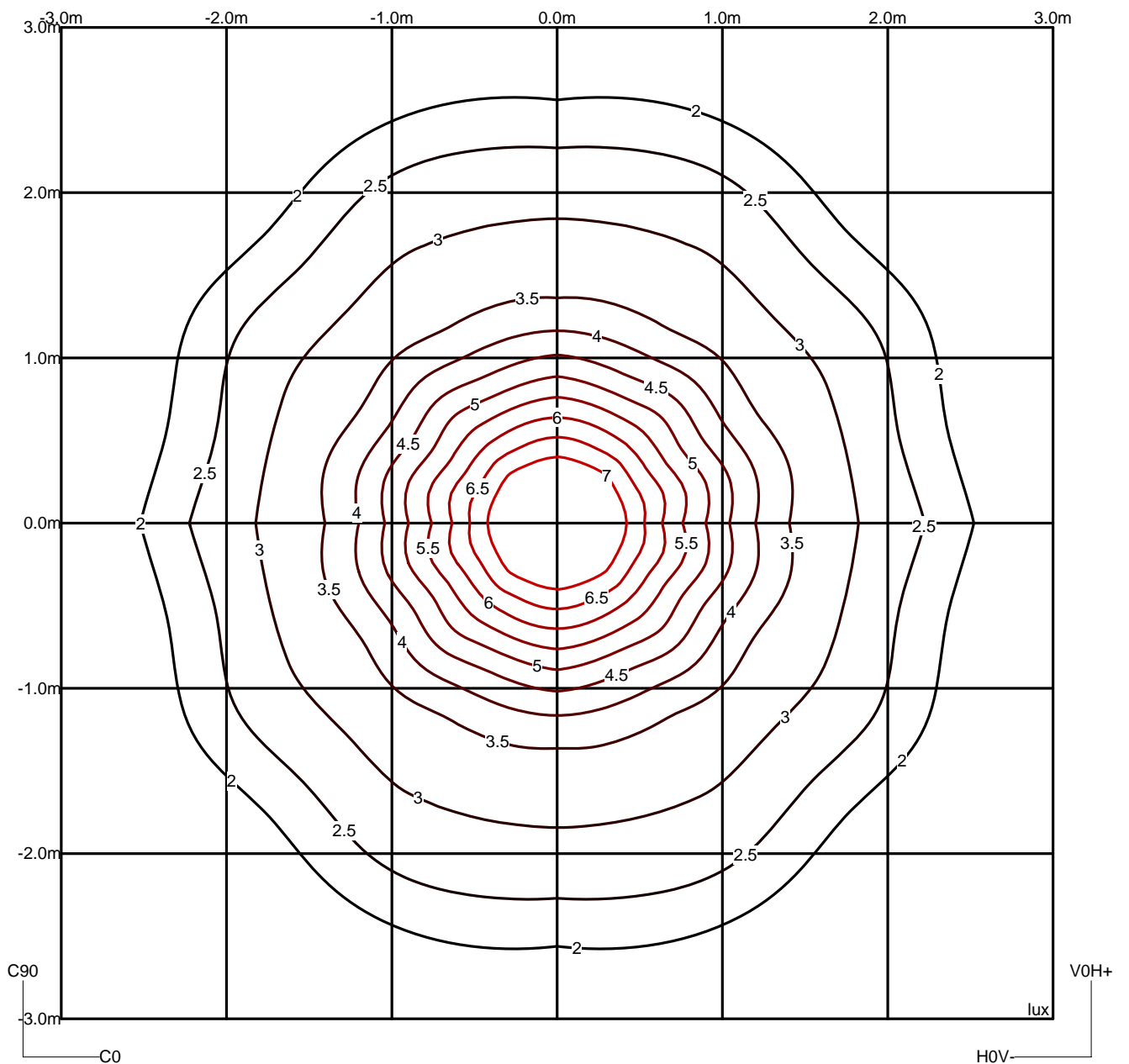
H[m]	D[m]	Max lux	Med lux	Alpha=54.2°+54.2°	G=0.0
1.00	2.77	50	13		
2.00	5.54	13	3		
3.00	8.32	6	1		
4.00	11.09	3	1		
5.00	13.86	2	1		

H[m]	D[m]	Max lux	Med lux	Beta=53.9°+53.9°	G=0.0
1.00	2.74	50	13		
2.00	5.48	13	3		
3.00	8.22	6	1		
4.00	10.96	3	1		
5.00	13.70	2	1		

Luminaire		Measur.		Lamp			
Code	ALGORITHM 1 BOLA	Code	ALGORITHM 1 BOLA	Code	1 LED XPGZ 3W		
Name	1 bola ALGORITHM led 3W	Name	1 bola ALGORITHM led 3W	Number	1		
Line	VIBIA-Algorithm	Date	21-12-2015	Position	Universal		
Luminaire Flux	154.85 lm	Luminaire Power	3.00 W	Efficacy	51.62 lm/W	Efficiency	49.59%
Lamps Flux	312.28 lm	Maximum value	160.78 cd/klm	Position	C=0.00 G=0.00	CG Double Symmetrical	

Isolux (Floor)

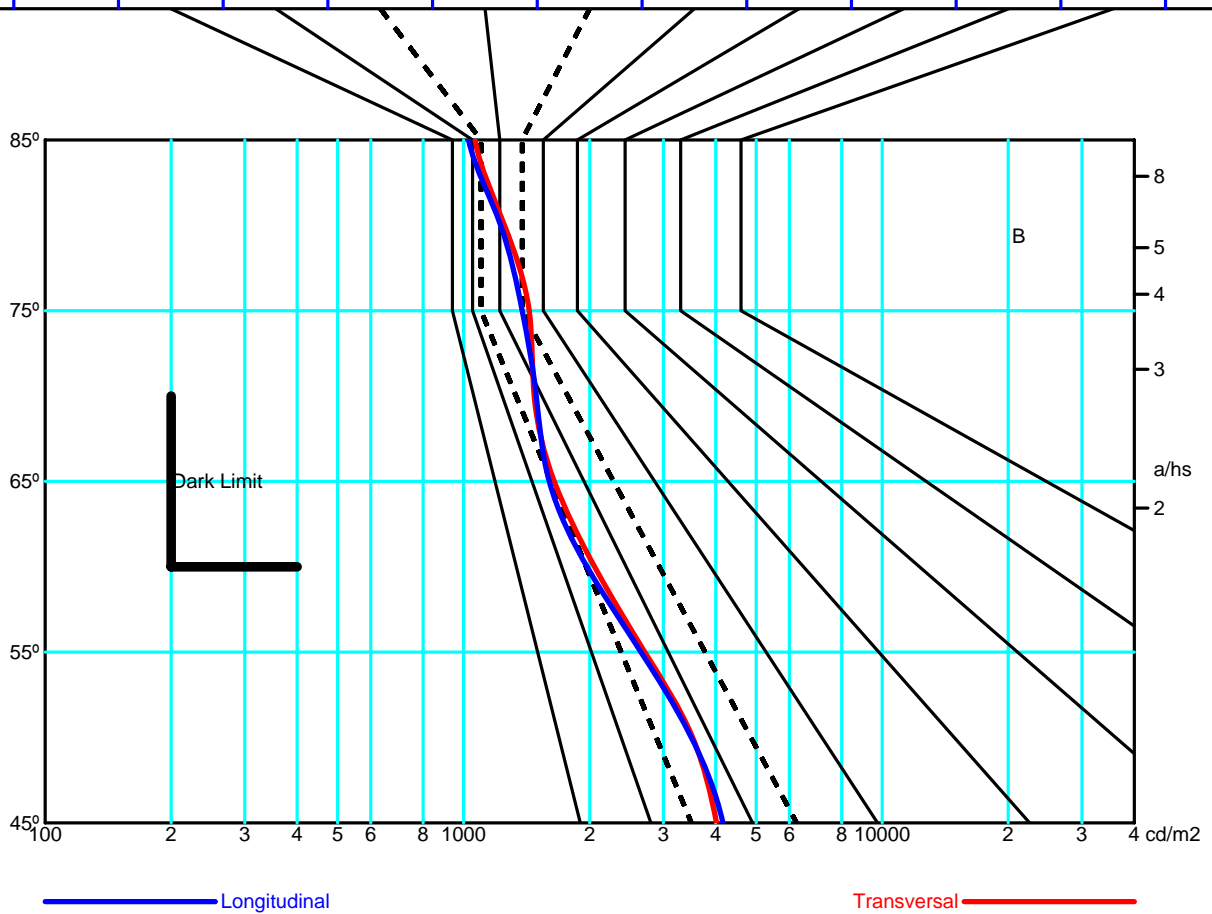
Luminaire position X=0.00m Y=0.00m Z=2.50m



Luminaire		Measur.				Lamp	
Code	ALGORITHM 1 BOLA	Code	ALGORITHM 1 BOLA		Code	1 LED XPGZ 3W	
Name	1 bola ALGORITHM led 3W	Name	1 bola ALGORITHM led 3W		Number	1	
Line	VIBIA-Algorithm	Date	21-12-2015		Position	Universal	
Luminaire Flux	154.85 lm	Luminaire Power	3.00 W	Efficacy	51.62 lm/W	Efficiency	49.59%
Lamps Flux	312.28 lm	Maximum value	160.78 cd/klm	Position	C=0.00 G=0.00	CG Double Symmetrical	

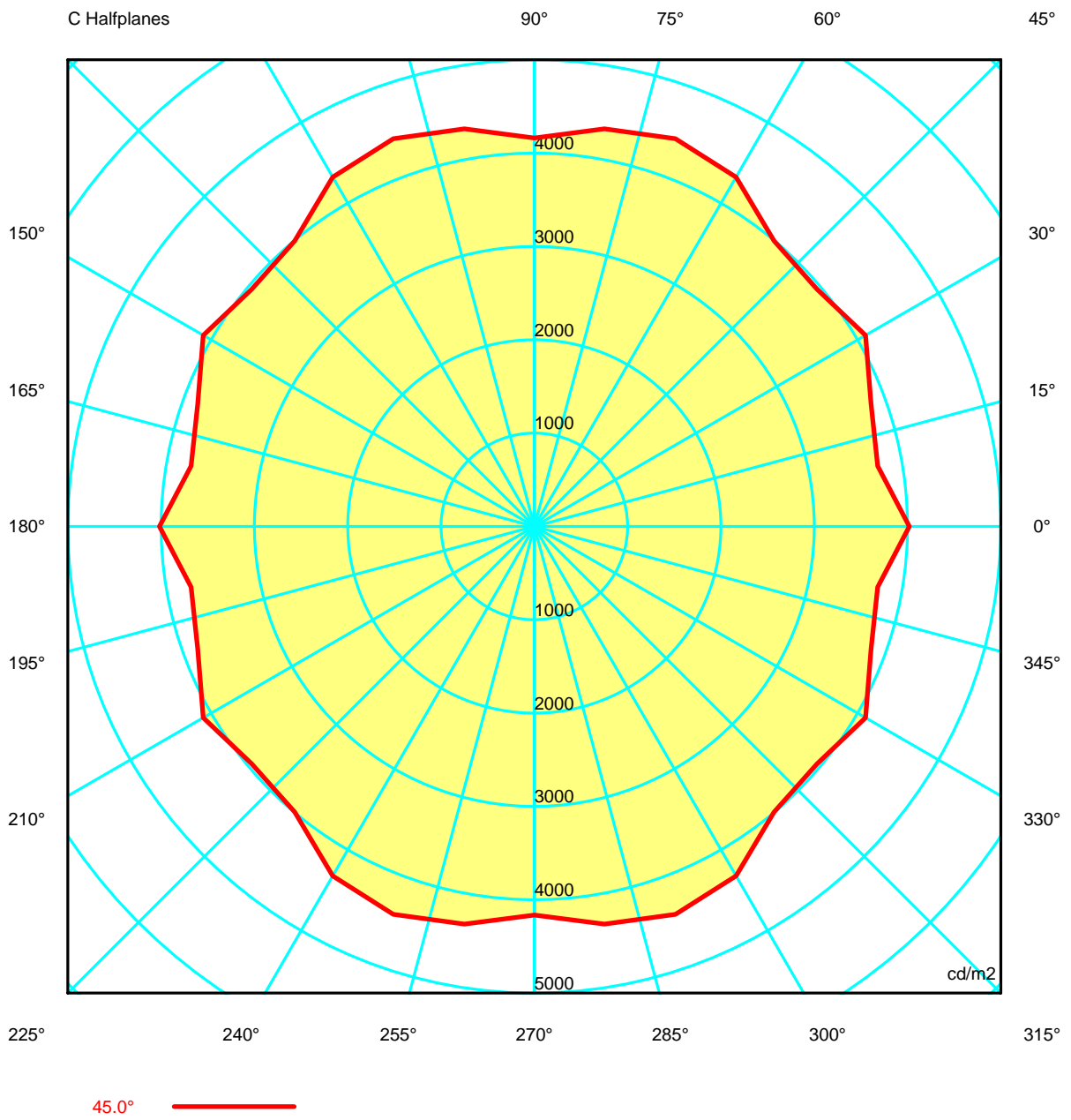
		Average Luminance [cd/m ²]									
		45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	4018	3524	2709	2056	1645	1474	1434	1252	1064	---	
90.0°	4163	3500	2653	1971	1601	1492	1380	1225	1028	---	

Flush mounted or transversal 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	ALGORITHM 1 BOLA	Code	ALGORITHM 1 BOLA	Code	1 LED XPGZ 3W		
Name	1 bola ALGORITHM led 3W	Name	1 bola ALGORITHM led 3W	Number	1		
Line	VIBIA-Algorithm	Date	21-12-2015	Position	Universal		
Luminaire Flux	154.85 lm	Luminaire Power	3.00 W	Efficacy	51.62 lm/W	Efficiency	49.59%
Lamps Flux	312.28 lm	Maximum value	160.78 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Luminance



Luminaire		Measurement		Lamp									
Code	ALGORITHM 1 BOLA	Code	ALGORITHM 1 BOLA	Code	1 LED XPGZ 3W								
Name	1 bola ALGORITHM led 3W	Name	1 bola ALGORITHM led 3W	Number	1								
Line	VIBIA-Algorithm	Date	21-12-2015	Position	Universal								
Luminaire Flux	154.85 lm	Luminaire Power	3.00 W	Efficacy	51.62 lm/W	Efficiency	49.59%						
Lamps Flux	312.28 lm	Maximum value	160.78 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical						
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	7891.89	7891.89	7891.89	7891.89	7891.89	7891.89	7891.89	7891.89	7891.89	7891.89	7891.89	7891.89	7891.89
G 5.0	7073.72	7067.84	7077.65	7089.72	7053.48	7049.35	7075.03	7051.72	7030.98	7023.50	7030.98	7051.72	7075.03
G 10.0	6144.90	6135.49	6108.22	6090.85	6121.95	6108.61	6051.00	6044.63	6062.04	6075.33	6062.04	6044.63	6051.00
G 15.0	5217.16	5327.77	5304.68	5204.31	5211.80	5213.75	5193.95	5200.89	5220.60	5237.77	5220.60	5200.89	5193.95
G 20.0	4593.45	4705.23	4643.70	4513.17	4566.75	4567.72	4460.22	4440.11	4486.04	4549.55	4486.04	4440.11	4460.22
G 25.0	4085.42	4190.94	4135.94	4012.05	4048.43	4038.95	3942.46	3948.93	3964.63	3978.39	3964.63	3948.93	3942.46
G 30.0	3807.30	3885.06	3846.13	3759.56	3793.70	3789.14	3723.42	3744.65	3757.78	3733.28	3757.78	3744.65	3723.42
G 35.0	3946.48	3948.79	3956.00	3955.78	3942.00	3949.26	3986.87	3983.85	3963.96	3948.49	3963.96	3983.85	3986.87
G 40.0	4205.00	4005.52	4060.16	4232.40	4168.62	4174.39	4311.69	4302.57	4295.33	4289.97	4295.33	4302.57	4311.69
G 45.0	4017.85	3736.11	3840.49	4097.97	3955.41	3994.87	4323.37	4421.75	4326.44	4163.43	4326.44	4421.75	4323.37
G 50.0	3523.85	3263.25	3320.84	3544.60	3500.03	3468.44	3574.22	3634.14	3600.04	3499.56	3600.04	3634.14	3574.22
G 55.0	2708.79	2840.60	2806.86	2688.63	2711.33	2711.07	2633.32	2601.96	2617.35	2652.95	2617.35	2601.96	2633.32
G 60.0	2056.21	2152.23	2077.84	1952.21	2036.05	2027.37	1871.47	1832.46	1887.20	1971.21	1887.20	1832.46	1871.47
G 65.0	1644.97	1724.53	1698.40	1621.61	1641.60	1645.82	1600.37	1596.54	1597.87	1601.16	1597.87	1596.54	1600.37
G 70.0	1474.08	1519.73	1522.91	1499.22	1504.94	1508.28	1509.24	1512.51	1507.77	1491.60	1507.77	1512.51	1509.24
G 75.0	1433.80	1406.86	1400.51	1402.63	1398.34	1392.37	1375.12	1333.04	1329.63	1379.95	1329.63	1333.04	1375.12
G 80.0	1251.69	1238.38	1228.95	1226.73	1231.28	1231.81	1230.99	1248.46	1249.92	1225.45	1249.92	1248.46	1230.99
G 85.0	1063.96	1078.94	1079.67	1070.60	1069.79	1076.09	1091.22	1112.88	1093.78	1027.78	1093.78	1112.88	1091.22
G 90.0	1024.39	1007.03	1006.55	1013.01	1002.32	998.12	1000.85	988.51	989.69	1013.87	989.69	988.51	1000.85

Luminaire		Measurem.		Lamp									
Code	ALGORITHM 1 BOLA	Code	ALGORITHM 1 BOLA	Code	1 LED XPGZ 3W								
Name	1 bola ALGORITHM led 3W	Name	1 bola ALGORITHM led 3W	Number	1								
Line	VIBIA-Algorithm	Date	21-12-2015	Position	Universal								
Luminaire Flux	154.85 lm	Luminaire Power	3.00 W	Efficacy	51.62 lm/W	Efficiency	49.59%						
Lamps Flux	312.28 lm	Maximum value	160.78 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical						
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	7891.89	7891.89	7891.89	7891.89	7891.89	7891.89	7891.89	7891.89	7891.89	7891.89	7891.89	7891.89	7891.89
G 5.0	7049.35	7053.48	7089.72	7077.65	7067.84	7073.72	7067.84	7077.65	7089.72	7053.48	7049.35	7075.03	7051.72
G 10.0	6108.61	6121.95	6090.85	6108.22	6135.49	6144.90	6135.49	6108.22	6090.85	6121.95	6108.61	6051.00	6044.63
G 15.0	5213.75	5211.80	5204.31	5304.68	5327.77	5217.16	5327.77	5304.68	5204.31	5211.80	5213.75	5193.95	5200.89
G 20.0	4567.72	4566.75	4513.17	4643.70	4705.23	4593.45	4705.23	4643.70	4513.17	4566.75	4567.72	4460.22	4440.11
G 25.0	4038.95	4048.43	4012.05	4135.94	4190.94	4085.42	4190.94	4135.94	4012.05	4048.43	4038.95	3942.46	3948.93
G 30.0	3789.14	3793.70	3759.56	3846.13	3885.06	3807.30	3885.06	3846.13	3759.56	3793.70	3789.14	3723.42	3744.65
G 35.0	3949.26	3942.00	3955.78	3956.00	3948.79	3946.48	3948.79	3956.00	3955.78	3942.00	3949.26	3986.87	3983.85
G 40.0	4174.39	4168.62	4232.40	4060.16	4005.52	4205.00	4005.52	4060.16	4232.40	4168.62	4174.39	4311.69	4302.57
G 45.0	3994.87	3955.41	4097.97	3840.49	3736.11	4017.85	3736.11	3840.49	4097.97	3955.41	3994.87	4323.37	4421.75
G 50.0	3468.44	3500.03	3544.60	3320.84	3263.25	3523.85	3263.25	3320.84	3544.60	3500.03	3468.44	3574.22	3634.14
G 55.0	2711.07	2711.33	2688.63	2806.86	2840.60	2708.79	2840.60	2806.86	2688.63	2711.33	2711.07	2633.32	2601.96
G 60.0	2027.37	2036.05	1952.21	2077.84	2152.23	2056.21	2152.23	2077.84	1952.21	2036.05	2027.37	1871.47	1832.46
G 65.0	1645.82	1641.60	1621.61	1698.40	1724.53	1644.97	1724.53	1698.40	1621.61	1641.60	1645.82	1600.37	1596.54
G 70.0	1508.28	1504.94	1499.22	1522.91	1519.73	1474.08	1519.73	1522.91	1499.22	1504.94	1508.28	1509.24	1512.51
G 75.0	1392.37	1398.34	1402.63	1400.51	1406.86	1433.80	1406.86	1400.51	1402.63	1398.34	1392.37	1375.12	1333.04
G 80.0	1231.81	1231.28	1226.73	1228.95	1238.38	1251.69	1238.38	1228.95	1226.73	1231.28	1231.81	1230.99	1248.46
G 85.0	1076.09	1069.79	1070.60	1079.67	1078.94	1063.96	1078.94	1079.67	1070.60	1069.79	1076.09	1091.22	1112.88
G 90.0	998.12	1002.32	1013.01	1006.55	1007.03	1024.39	1007.03	1006.55	1013.01	1002.32	998.12	1000.85	988.51

Luminaire		Measurem.		Lamp	
Code	ALGORITHM 1 BOLA	Code	ALGORITHM 1 BOLA	Code	1 LED XPGZ 3W
Name	1 bola ALGORITHM led 3W	Name	1 bola ALGORITHM led 3W	Number	1
Line	VIBIA-Algorithm	Date	21-12-2015	Position	Universal

Luminaire Flux	154.85 lm	Luminaire Power	3.00 W	Efficacy	51.62 lm/W	Efficiency	49.59%
Lamps Flux	312.28 lm	Maximum value	160.78 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	7891.89	7891.89	7891.89	7891.89	7891.89	7891.89	7891.89	7891.89	7891.89	7891.89
G 5.0	7030.98	7023.50	7030.98	7051.72	7075.03	7049.35	7053.48	7089.72	7077.65	7067.84
G 10.0	6062.04	6075.33	6062.04	6044.63	6051.00	6108.61	6121.95	6090.85	6108.22	6135.49
G 15.0	5220.60	5237.77	5220.60	5200.89	5193.95	5213.75	5211.80	5204.31	5304.68	5327.77
G 20.0	4486.04	4549.55	4486.04	4440.11	4460.22	4567.72	4566.75	4513.17	4643.70	4705.23
G 25.0	3964.63	3978.39	3964.63	3948.93	3942.46	4038.95	4048.43	4012.05	4135.94	4190.94
G 30.0	3757.78	3733.28	3757.78	3744.65	3723.42	3789.14	3793.70	3759.56	3846.13	3885.06
G 35.0	3963.96	3948.49	3963.96	3983.85	3986.87	3949.26	3942.00	3955.78	3956.00	3948.79
G 40.0	4295.33	4289.97	4295.33	4302.57	4311.69	4174.39	4168.62	4232.40	4060.16	4005.52
G 45.0	4326.44	4163.43	4326.44	4421.75	4323.37	3994.87	3955.41	4097.97	3840.49	3736.11
G 50.0	3600.04	3499.56	3600.04	3634.14	3574.22	3468.44	3500.03	3544.60	3320.84	3263.25
G 55.0	2617.35	2652.95	2617.35	2601.96	2633.32	2711.07	2711.33	2688.63	2806.86	2840.60
G 60.0	1887.20	1971.21	1887.20	1832.46	1871.47	2027.37	2036.05	1952.21	2077.84	2152.23
G 65.0	1597.87	1601.16	1597.87	1596.54	1600.37	1645.82	1641.60	1621.61	1698.40	1724.53
G 70.0	1507.77	1491.60	1507.77	1512.51	1509.24	1508.28	1504.94	1499.22	1522.91	1519.73
G 75.0	1329.63	1379.95	1329.63	1333.04	1375.12	1392.37	1398.34	1402.63	1400.51	1406.86
G 80.0	1249.92	1225.45	1249.92	1248.46	1230.99	1231.81	1231.28	1226.73	1228.95	1238.38
G 85.0	1093.78	1027.78	1093.78	1112.88	1091.22	1076.09	1069.79	1070.60	1079.67	1078.94
G 90.0	989.69	1013.87	989.69	988.51	1000.85	998.12	1002.32	1013.01	1006.55	1007.03