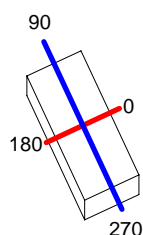


Luminaire		Measur.		Lamp		
Code	2510	Code	2510	Code	3 led 350mA 3.7W	
Name	3 cluster hanging lamp comp.1	Name	3 cluster hanging lamp comp.1	Number	1	
Line	VIBIA-Cosmos	Date	16-06-2014	Position	Universal	
Efficiency	35.21%	Coordinate system	CG	Total Flux	1278.00 lm	
Maximum value	286.20 cd/klm	Position	C=270.00 G=10.00	Asymmetrical		
Rectangular Luminaire	Length	550 mm	Width	240 mm	Height	460 mm
Rectangular Luminous Area	Length	280 mm	Width	220 mm	Height	0 mm
Horizontal Luminous Area	0.061600 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°		0.014902 m2		
Symmetry Type	Asymmetrical	Maximum Gamma Angle		180		
Measurement Distance	0.00	Measurement Flux		1278.00 lm		
Operator		Source voltage		230.00 V		
Temperature	20.00 °C	Source current				
Humidity	50.00 %	Photocell				
Notes						

Luminaire Lamps					
Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
- VIBIA	3 led 350mA 3.7W	Lámpara 3 leds 3.7W	1278.00	11.00	1
C.I.E.	83 97 99 100 35	D DIN 5040		A60	
F UTE	0.35 B	B NBN		BZ 1	

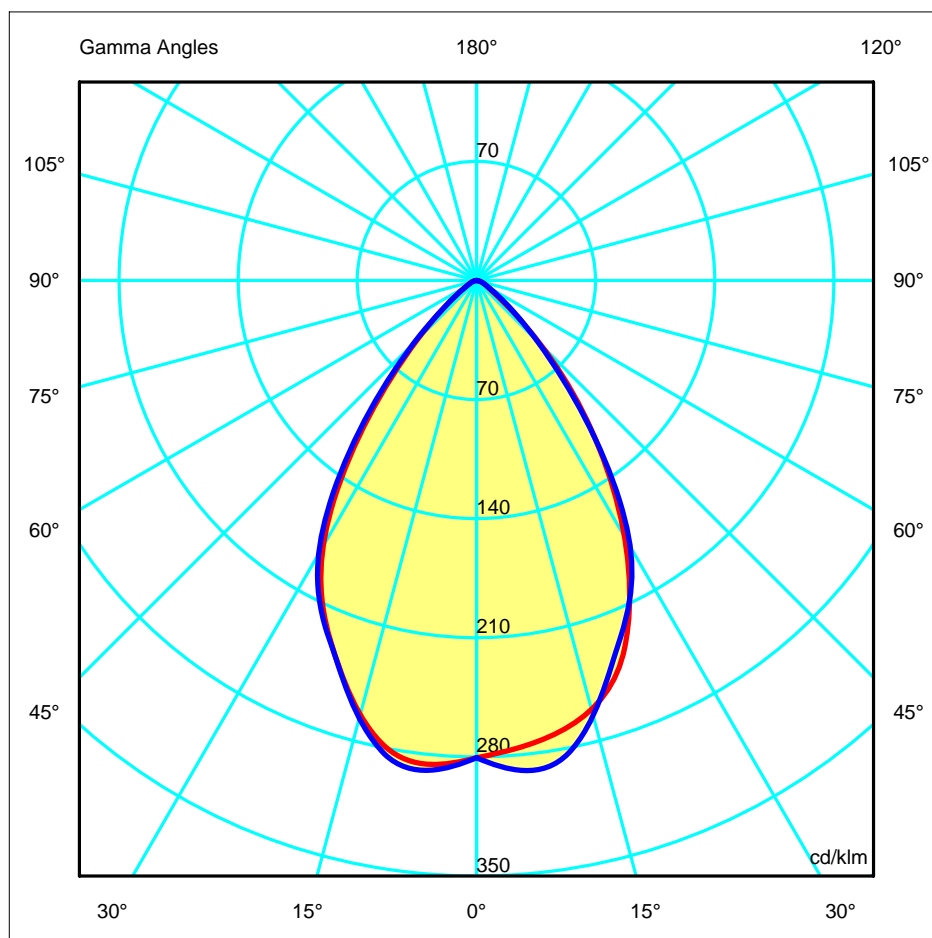
550mm x 240mm



C Halfplanes

180.0 — 0.0
 270.0 — 90.0

ULOR 0.01 %
 DLOR 35.20 %
 RN 0.04 %



Luminaire				Measurem.				Lamp					
Code	2510			Code	2510			Code	3 led 350mA 3.7W				
Name	3 cluster hanging lamp comp.1			Name	3 cluster hanging lamp comp.1			Number	1				
Line	VIBIA-Cosmos			Date	16-06-2014			Position	Universal				
Efficiency				35.21%		Coordinate system		CG		Total Flux		1278.00 lm	
Luminous Intensity Table cd/klm										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	280.42	280.42	280.42	280.42	280.42	280.42	280.42	280.42	280.42	280.42	280.42	280.42	280.42
G 10.0	270.14	267.94	271.39	274.06	277.56	281.05	281.53	284.78	285.15	285.94	282.44	281.20	283.20
G 20.0	243.30	243.33	240.83	239.18	235.45	240.90	241.84	240.30	238.48	236.15	238.37	245.17	245.45
G 30.0	173.74	176.99	181.90	181.61	184.47	192.45	191.33	183.25	181.12	180.62	179.48	178.60	182.86
G 40.0	90.99	95.67	89.49	88.94	85.71	86.91	90.67	96.05	89.06	86.90	96.87	90.55	87.55
G 50.0	25.48	26.65	29.27	26.85	24.58	30.62	27.43	25.43	25.86	28.23	26.87	25.24	28.96
G 60.0	7.66	9.35	7.98	8.24	8.64	9.33	9.23	8.77	7.58	8.76	8.35	9.79	8.09
G 70.0	3.44	3.63	2.83	3.04	1.79	3.69	3.75	3.06	3.27	4.17	3.91	3.11	2.81
G 80.0	1.45	1.37	2.11	1.86	1.47	1.70	1.27	1.14	1.77	1.50	1.38	1.18	1.63
G 90.0	0.11	0.14	0.39	0.52	0.17	0.04	0.19	0.36	0.25	0.12	0.13	0.40	0.37
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

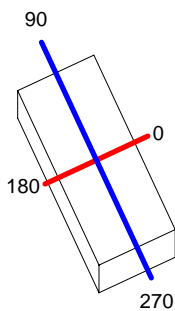
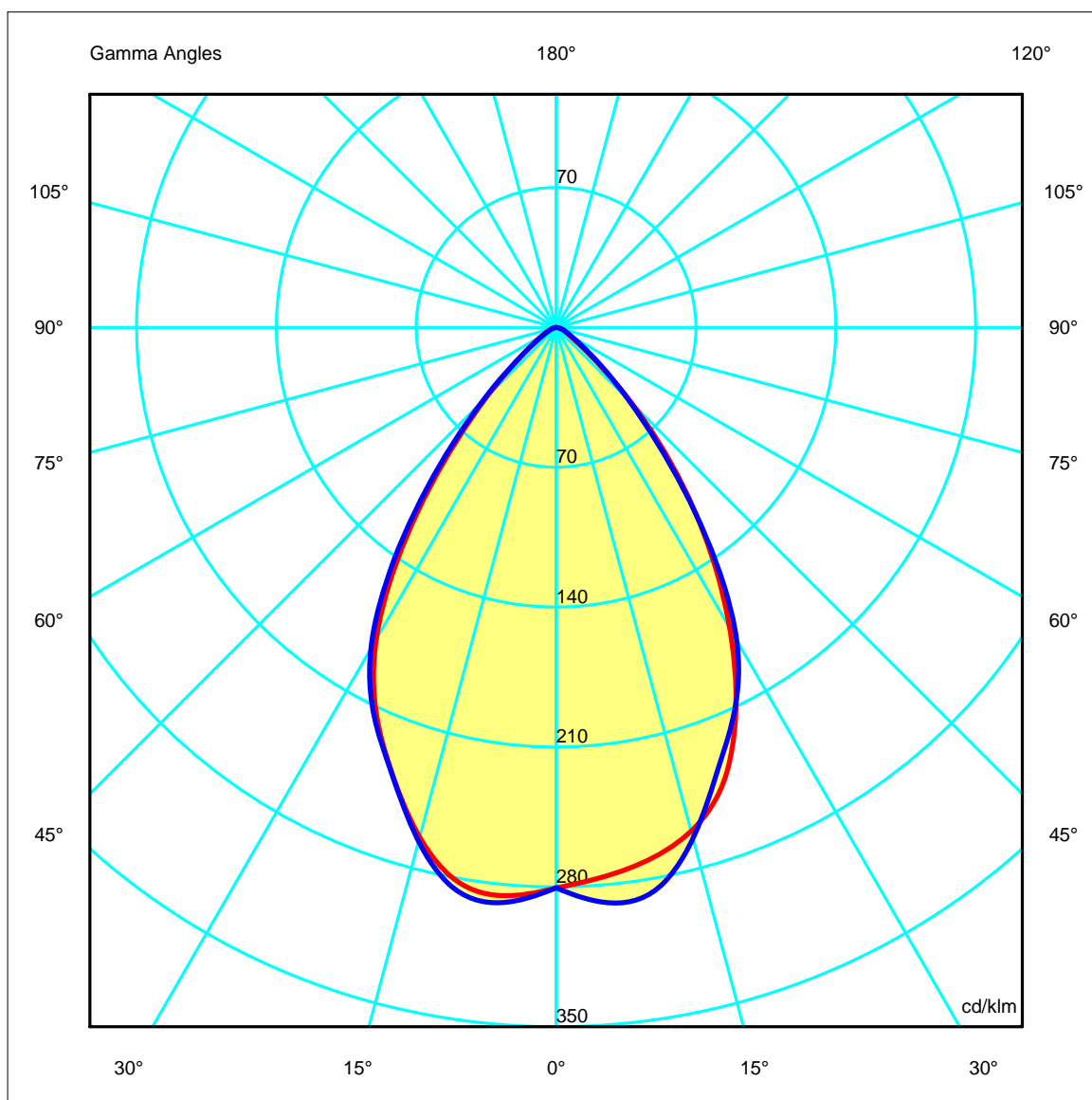
Luminaire					Measurem.					Lamp			
Code	2510				Code	2510				Code	3 led 350mA 3.7W		
Name	3 cluster hanging lamp comp.1				Name	3 cluster hanging lamp comp.1				Number	1		
Line	VIBIA-Cosmos				Date	16-06-2014				Position	Universal		
Efficiency		35.21%			Coordinate system		CG			Total Flux		1278.00 lm	
Luminous Intensity Table cd/klm								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	280.42	280.42	280.42	280.42	280.42	280.42	280.42	280.42	280.42	280.42	280.42	280.42	280.42
G 10.0	280.33	276.74	277.89	272.12	278.57	281.86	278.51	281.34	276.95	269.69	269.02	273.75	278.89
G 20.0	241.68	240.87	240.64	238.26	237.12	238.85	235.22	238.14	240.25	237.48	242.80	238.47	234.31
G 30.0	179.74	181.02	179.96	182.62	177.96	180.14	179.52	176.31	170.20	181.09	181.15	184.36	174.91
G 40.0	85.97	84.63	91.66	88.23	87.07	86.66	87.66	86.92	83.92	83.31	83.09	89.50	89.20
G 50.0	25.87	25.28	22.56	25.54	26.06	25.03	28.36	28.71	23.04	26.79	26.02	27.30	27.25
G 60.0	8.36	9.85	8.31	8.37	7.81	7.99	6.53	7.79	9.52	8.76	8.06	8.68	7.96
G 70.0	3.02	2.81	3.10	2.40	2.02	3.65	3.86	3.06	3.68	3.05	3.07	3.78	3.02
G 80.0	1.27	1.90	1.36	1.38	1.75	1.53	1.80	1.39	1.68	1.64	0.93	1.01	1.22
G 90.0	0.51	0.32	0.22	0.46	0.21	0.08	0.22	0.31	0.19	0.10	0.20	0.22	0.37
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Luminaire				Measurem.				Lamp					
Code	2510			Code	2510			Code	3 led 350mA 3.7W				
Name	3 cluster hanging lamp comp.1			Name	3 cluster hanging lamp comp.1			Number	1				
Line	VIBIA-Cosmos			Date	16-06-2014			Position	Universal				
Efficiency				35.21%		Coordinate system		CG		Total Flux		1278.00 lm	
Luminous Intensity Table cd/klm 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	280.42	280.42	280.42	280.42	280.42	280.42	280.42	280.42	280.42	280.42	280.42	280.42	280.42
G 10.0	281.86	278.51	281.34	276.95	269.69	269.02	273.75	278.89	281.64	286.20	283.64	280.57	284.71
G 20.0	238.85	235.22	238.14	240.25	237.48	242.80	238.47	234.31	243.98	239.20	235.20	241.11	238.68
G 30.0	180.14	179.52	176.31	170.20	181.09	181.15	184.36	174.91	186.82	185.42	189.32	188.16	182.05
G 40.0	86.66	87.66	86.92	83.92	83.31	83.09	89.50	89.20	95.13	92.31	91.34	90.31	91.15
G 50.0	25.03	28.36	28.71	23.04	26.79	26.02	27.30	27.25	26.87	25.62	25.17	25.69	28.78
G 60.0	7.99	6.53	7.79	9.52	8.76	8.06	8.68	7.96	8.74	7.23	8.54	8.78	11.35
G 70.0	3.65	3.86	3.06	3.68	3.05	3.07	3.78	3.02	3.23	3.02	3.80	3.10	3.12
G 80.0	1.53	1.80	1.39	1.68	1.64	0.93	1.01	1.22	1.72	1.39	1.01	0.71	1.12
G 90.0	0.08	0.22	0.31	0.19	0.10	0.20	0.22	0.37	0.38	0.31	0.29	0.58	0.42
G100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Luminaire		Measurem.		Lamp	
Code	2510	Code	2510	Code	3 led 350mA 3.7W
Name	3 cluster hanging lamp comp.1	Name	3 cluster hanging lamp comp.1	Number	1
Line	VIBIA-Cosmos	Date	16-06-2014	Position	Universal
Efficiency	35.21%	Coordinate system	CG	Total Flux	1278.00 lm

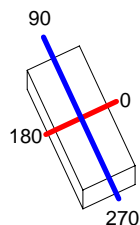
550mm x 240mm

C Halfplanes


 180.0 ————— 0.0
 270.0 ————— 90.0


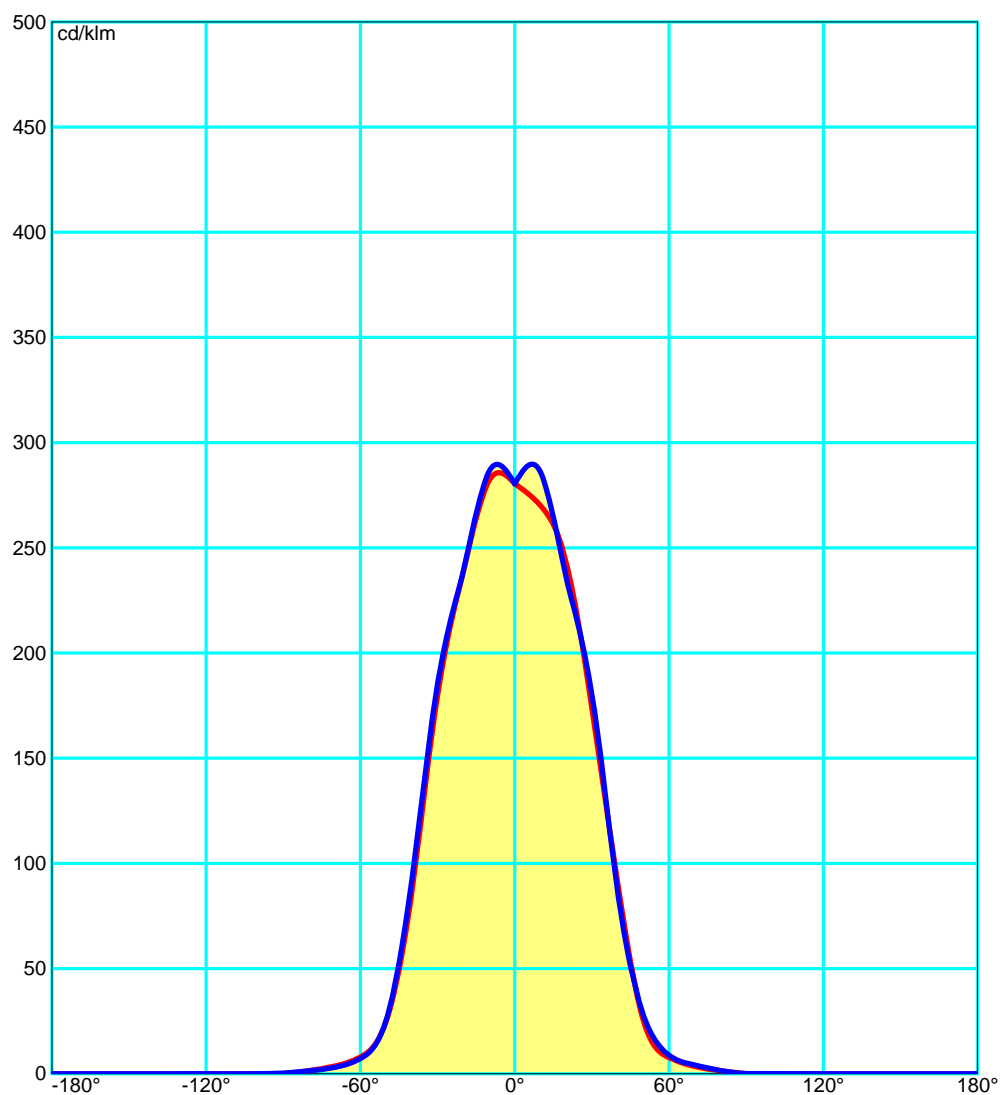
Luminaire		Measurem.		Lamp	
Code	2510	Code	2510	Code	3 led 350mA 3.7W
Name	3 cluster hanging lamp comp.1	Name	3 cluster hanging lamp comp.1	Number	1
Line	VIBIA-Cosmos	Date	16-06-2014	Position	Universal
Efficiency	35.21%	Coordinate system	CG	Total Flux	1278.00 lm

550mm x 240mm



C Halfplanes

180.0 ————— 0.0
 270.0 ————— 90.0



Luminaire		Measur.		Lamp	
Code	2510	Code	2510	Code	3 led 350mA 3.7W
Name	3 cluster hanging lamp comp.1	Name	3 cluster hanging lamp comp.1	Number	1
Line	VIBIA-Cosmos	Date	16-06-2014	Position	Universal
Efficiency	35.21%	Coordinate system	CG	Total Flux	1278.00 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	9.5	10.3	9.8	10.6	11.1	9.8	10.7	10.1	10.9	11.1
x=2H y=3H	9.5	10.3	9.8	10.4	11.0	9.8	10.6	10.1	10.8	11.0
x=2H y=4H	9.5	10.2	9.8	10.5	11.0	9.8	10.5	10.1	10.8	11.0
x=2H y=6H	9.5	10.1	9.8	10.4	11.0	9.8	10.4	10.1	10.7	11.0
x=2H y=8H	9.5	10.1	9.9	10.4	11.0	9.8	10.4	10.1	10.7	11.0
x=2H y=12H	9.5	10.1	9.9	10.4	11.0	9.8	10.4	10.1	10.7	11.0
x=4H y=2H	9.4	10.1	9.7	10.4	11.0	9.7	10.4	10.0	10.7	11.0
x=4H y=3H	9.5	10.1	9.8	10.4	11.0	9.8	10.4	10.2	10.7	11.0
x=4H y=4H	9.5	10.0	9.9	10.4	11.0	9.8	10.3	10.2	10.7	11.0
x=4H y=6H	9.5	10.0	10.0	10.4	11.0	9.8	10.2	10.2	10.6	11.0
x=4H y=8H	9.6	10.0	10.0	10.4	11.0	9.8	10.2	10.2	10.6	11.0
x=4H y=12H	9.6	10.0	10.1	10.4	11.0	9.8	10.2	10.3	10.6	11.0
x=8H y=4H	9.5	9.9	9.9	10.2	10.9	9.7	10.1	10.1	10.5	10.9
x=8H y=6H	9.5	9.8	10.0	10.2	10.9	9.8	10.0	10.2	10.5	10.9
x=8H y=8H	9.6	9.9	10.1	10.3	11.0	9.8	10.0	10.3	10.5	11.0
x=8H y=12H	9.7	9.9	10.2	10.4	11.0	9.8	10.0	10.3	10.5	11.0
x=12H y=4H	9.4	9.8	9.9	10.2	10.9	9.7	10.1	10.2	10.5	10.9
x=12H y=6H	9.5	9.8	10.0	10.2	10.9	9.7	10.0	10.2	10.5	10.9
x=12H y=8H	9.6	9.8	10.1	10.3	11.0	9.8	10.0	10.3	10.5	11.0

Luminaire		Measurem.		Lamp	
Code	2510	Code	2510	Code	3 led 350mA 3.7W
Name	3 cluster hanging lamp comp.1	Name	3 cluster hanging lamp comp.1	Number	1
Line	VIBIA-Cosmos	Date	16-06-2014	Position	Universal
Efficiency	35.21%	Coordinate system	CG	Total Flux	1278.00 lm

Total Flux=1278.00 Luminaire Flux=450.01

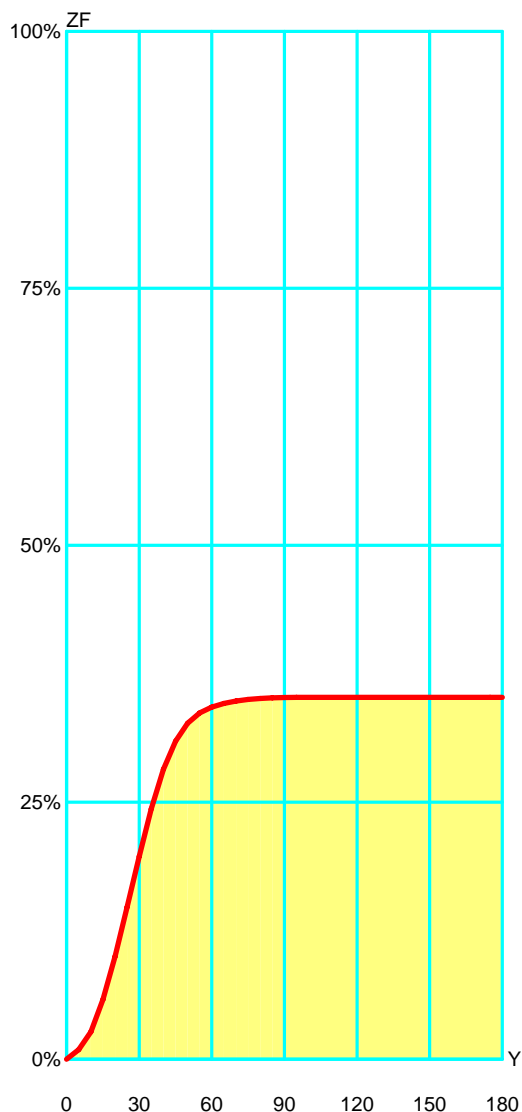
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.59	0.65	0.72	0.77	0.80	0.86	0.90	0.92	0.95	0.96	0.98	1.00
RC	-	-	-	-	-	-	-	-	-	-	-	-

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)	27	100	197	282	327	343	349	351	352	352	352	352	352	352	352	352	352	352

CIE Flux Codes
83 97 99 100 35

C.I.E. -/-/-/-/-/-/-/-/-/-
D DIN 5040 A60
F UTE 0.35 B
B NBN BZ 1
RN 0.04114 %
BLF 1.0

LOR 35.21167 %
ULOR 0.01449 %
DLOR 35.19719 %
UFF 0.04114 %
DFF 99.95886 %
FFR 0.04116 %



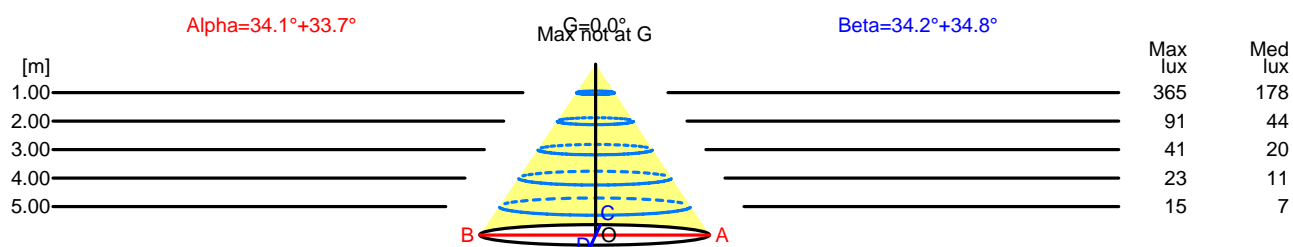
Zonal Flux				
Gamma °	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00 %	0.00 %
5°	9.31	9.31	2.64 %	2.64 %
10°	17.36	26.67	4.93 %	7.57 %
15°	31.25	57.91	8.87 %	16.45 %
20°	42.13	100.05	11.96 %	28.41 %
25°	47.94	147.99	13.62 %	42.03 %
30°	49.28	197.27	14.00 %	56.02 %
35°	46.23	243.50	13.13 %	69.15 %
40°	38.54	282.05	10.95 %	80.10 %
45°	27.35	309.40	7.77 %	87.87 %
50°	17.46	326.85	4.96 %	92.82 %
55°	10.13	336.99	2.88 %	95.70 %
60°	5.62	342.60	1.60 %	97.30 %
65°	3.57	346.17	1.01 %	98.31 %
70°	2.35	348.52	0.67 %	98.98 %
75°	1.53	350.06	0.44 %	99.42 %
80°	0.97	351.03	0.28 %	99.69 %
85°	0.61	351.64	0.17 %	99.86 %
90°	0.33	351.97	0.09 %	99.96 %
95°	0.13	352.10	0.04 %	99.99 %
100°	0.02	352.12	0.01 %	100.00 %
105°	0.00	352.12	0.00 %	100.00 %
110°	0.00	352.12	0.00 %	100.00 %
115°	0.00	352.12	0.00 %	100.00 %
120°	0.00	352.12	0.00 %	100.00 %
125°	0.00	352.12	0.00 %	100.00 %
130°	0.00	352.12	0.00 %	100.00 %
135°	0.00	352.12	0.00 %	100.00 %
140°	0.00	352.12	0.00 %	100.00 %
145°	0.00	352.12	0.00 %	100.00 %
150°	0.00	352.12	0.00 %	100.00 %
155°	0.00	352.12	0.00 %	100.00 %
160°	0.00	352.12	0.00 %	100.00 %
165°	0.00	352.12	0.00 %	100.00 %
170°	0.00	352.12	0.00 %	100.00 %
175°	0.00	352.12	0.00 %	100.00 %
180°	0.00	352.12	0.00 %	100.00 %

Luminaire		Measurem.		Lamp	
Code	2510	Code	2510	Code	3 led 350mA 3.7W
Name	3 cluster hanging lamp comp.1	Name	3 cluster hanging lamp comp.1	Number	1
Line	VIBIA-Cosmos	Date	16-06-2014	Position	Universal
Efficiency	35.21%	Coordinate system	CG	Total Flux	1278.00 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	0.67	1.33	2.00	2.67	3.34	OC	0.68	1.36	2.04	2.72	3.40
OB	0.68	1.36	2.03	2.71	3.39	OD	0.70	1.39	2.09	2.78	3.48

	Luminous Intensities [cd/klm]									
	0	5	15	25	35	45	55	65	75	85
OA	358.38	352.60	333.64	271.86	168.91	68.13	15.52	6.66	2.92	0.86
OB	358.38	364.83	337.41	272.28	171.78	63.05	16.46	6.85	3.15	0.86
OC	358.38	369.23	338.17	270.07	172.44	65.34	19.44	7.32	3.54	0.78
OD	358.38	369.01	340.19	275.06	180.16	67.04	15.74	5.90	2.62	1.00



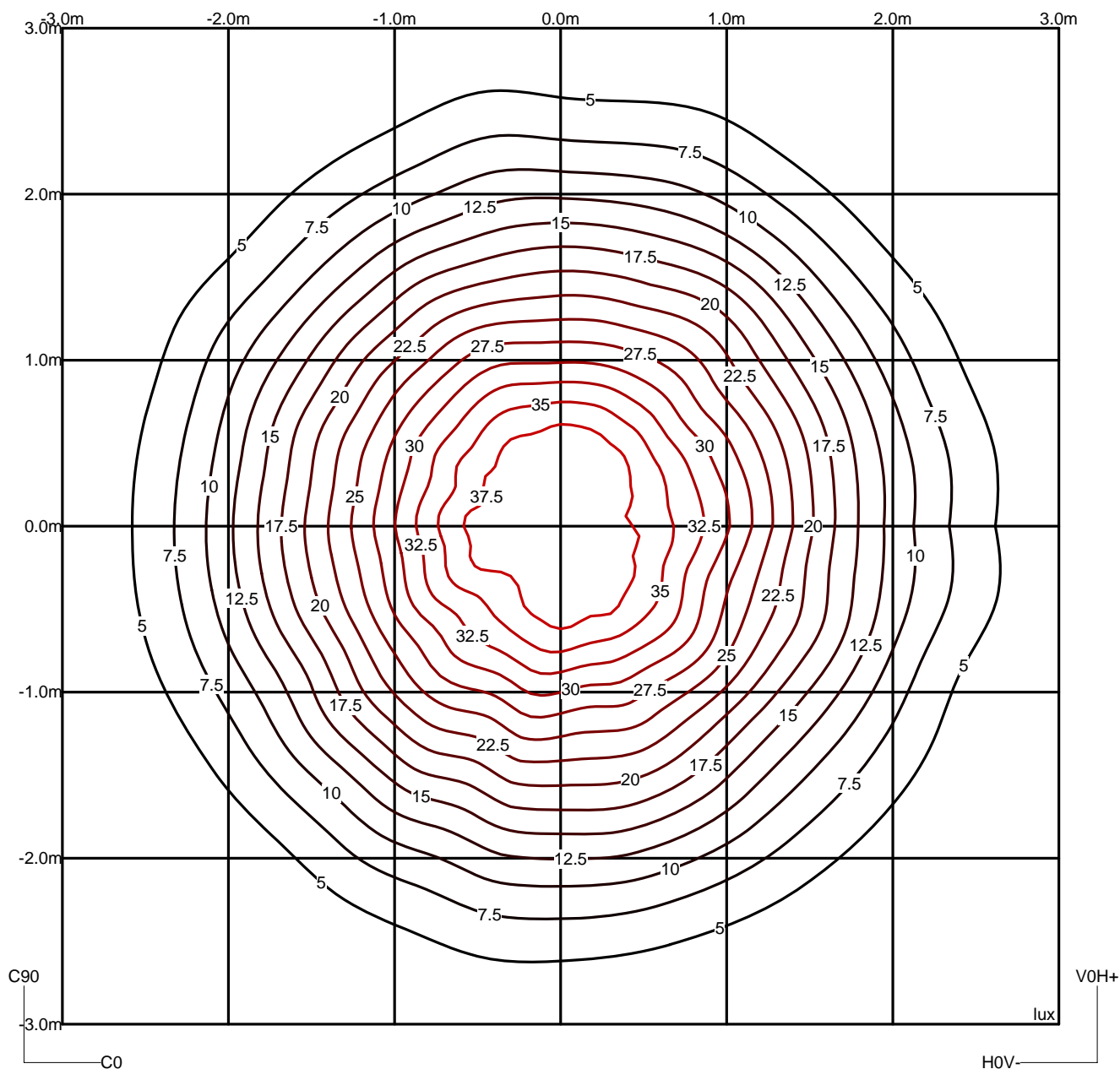
H[m]	D[m]	Max lux	Med lux	Alpha=34.1°+33.7°	G=0.0°	Max not at G	
1.00	1.35	365	178				
2.00	2.69	91	44				
3.00	4.04	41	20				
4.00	5.38	23	11				
5.00	6.73	15	7				

H[m]	D[m]	Max lux	Med lux	Beta=34.8°+34.2°	G=0.0°	Max not at G	
1.00	1.37	365	178				
2.00	2.75	91	44				
3.00	4.12	41	20				
4.00	5.50	23	11				
5.00	6.87	15	7				

Luminaire		Measurem.		Lamp	
Code	2510	Code	2510	Code	3 led 350mA 3.7W
Name	3 cluster hanging lamp comp.1	Name	3 cluster hanging lamp comp.1	Number	1
Line	VIBIA-Cosmos	Date	16-06-2014	Position	Universal
Efficiency	35.21%	Coordinate system	CG	Total Flux	1278.00 lm

Isolux (Floor)

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



Luminaire				Measur.				Lamp			
Code	2510			Code	2510			Code	3 led 350mA 3.7W		
Name	3 cluster hanging lamp comp.1			Name	3 cluster hanging lamp comp.1			Number	1		
Line	VIBIA-Cosmos			Date	16-06-2014			Position	Universal		
Efficiency	35.21%			Coordinate system	CG			Total Flux	1278.00 lm		

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	63	57	42	37	54	36	35	30	22	19	13	10	6	4	18	10	9	5	4	9	4	4	0											
0.80	75	69	44	41	65	39	45	40	26	22	16	13	9	6	21	13	12	7	6	11	6	6	0											
1.00	83	77	44	41	73	39	54	48	27	25	18	15	11	9	23	16	14	10	8	14	8	8	0											
1.25	90	85	44	41	81	40	62	57	29	26	20	17	14	11	25	18	17	12	11	16	11	10	0											
1.50	96	91	43	41	87	40	69	64	30	28	22	19	16	13	26	20	18	14	13	18	13	12	0											
2.00	103	99	41	40	95	38	80	75	31	29	25	22	20	17	28	22	21	18	16	20	16	15	0											
2.50	108	105	40	39	100	38	88	83	32	30	27	24	22	20	29	24	23	20	19	22	19	18	0											
3.00	112	109	39	38	104	37	93	89	32	31	28	26	24	22	29	26	25	22	21	24	21	20	0											
4.00	118	115	38	38	110	37	101	98	33	32	30	28	27	25	31	28	27	25	24	26	24	23	0											
5.00	121	119	38	38	114	37	107	104	34	33	31	30	29	27	32	29	29	27	26	28	26	25	0											
10.00	129	128	38	37	123	37	119	117	35	35	34	33	33	32	34	33	33	32	31	32	31	30	0											
20.00	134	133	37	37	128	37	126	125	36	36	36	36	35	35	35	35	35	34	34	34	33	33	0											

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	121	117	93	91	115	90	91	88	72	71	61	59	52	52	70	60	59	52	51	59	51	51	44
0.80	133	129	98	96	127	95	103	100	79	77	68	66	59	58	76	66	66	59	58	65	58	58	49
1.00	139	136	98	96	132	94	110	107	81	79	70	69	62	61	78	69	68	62	61	67	61	60	50
1.25	145	141	97	96	137	94	117	113	82	81	73	71	66	64	79	71	70	64	63	69	63	63	51
1.50	149	146	96	95	141	93	122	118	83	81	74	73	68	66	79	72	71	66	65	70	65	64	52
2.00	150	147	90	89	141	87	126	122	79	78	72	71	67	65	75	70	69	65	64	68	63	62	48
2.50	149	147	84	83	140	81	127	123	75	74	70	68	65	63	71	67	66	63	62	64	61	59	45
3.00	147	145	79	78	138	76	126	123	71	70	66	65	62	61	67	63	63	60	59	61	58	56	41
4.00	148	146	75	74	138	72	129	126	68	67	65	63	62	60	64	61	61	59	58	59	56	54	38
5.00	149	147	72	72	138	70	131	128	67	66	64	63	61	60	63	60	60	58	57	57	55	53	36
10.00	145	144	62	61	134	59	130	128	58	57	56	56	55	54	54	53	52	51	51	49	48	45	27
20.00	130	129	43	43	118	40	116	115	40	40	39	39	39	38	36	35	35	35	34	31	31	27	9

Working Pl.

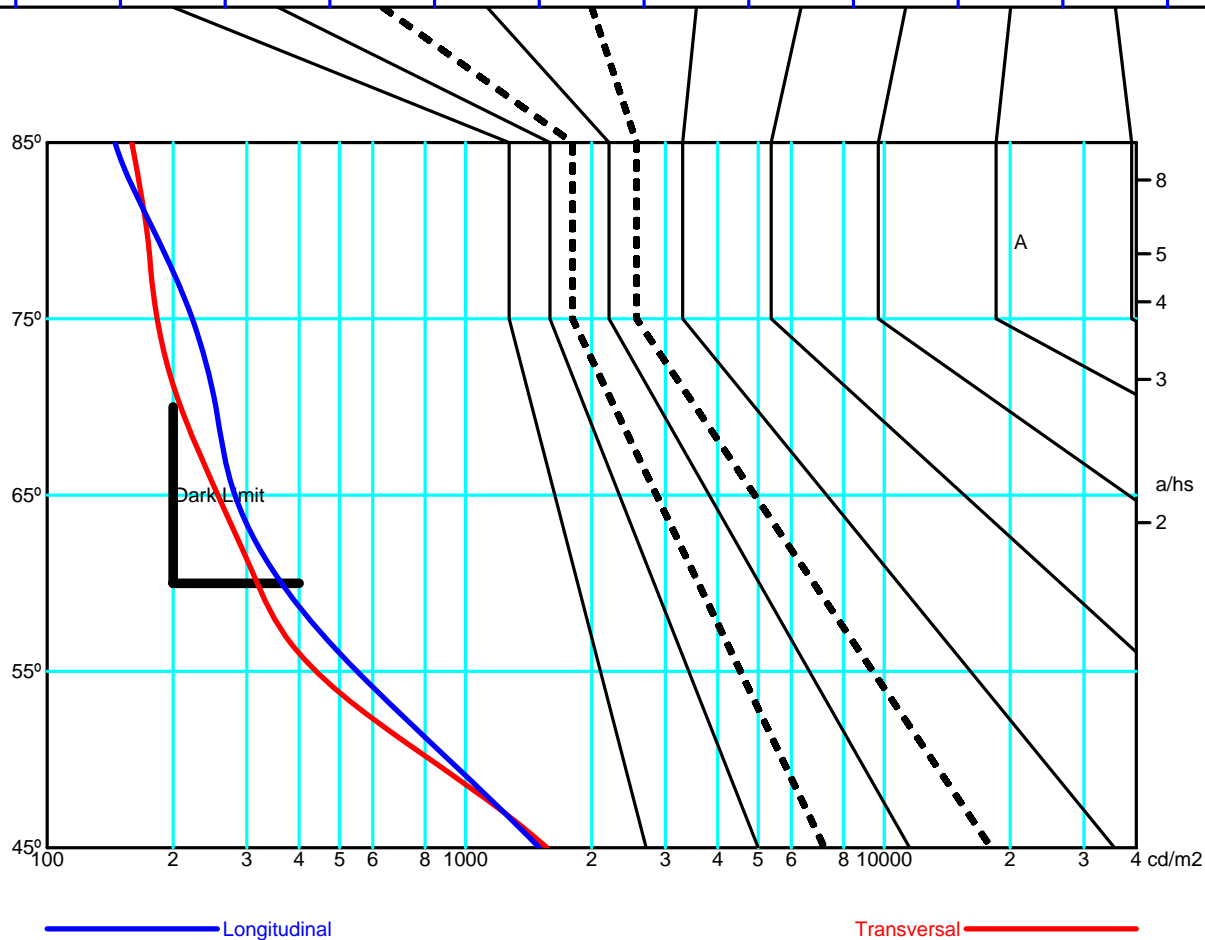
K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000
0.60	282	279	263	261	276	260	247	244	237	236	222	221	212	211	235	221	221	211	211	220	211	210	207
0.80	312	308	288	285	304	283	275	272	263	261	248	246	236	235	259	246	245	236	235	244	235	234	230
1.00	336	332	307	304	327	302	300	296	283	282	270	268	259	257	279	267	266	258	257	265	257	256	252
1.25	357	353	322	320	347	317	321	317	301	299	288	286	278	276	296	285	284	276	275	283	275	274	270
1.50	372	368	332	331	361	328	337	333	313	311	302	299	292	290	308	298	297	290	289	295	288	287	283
2.00	394	390	348	346	382	343	362	357	332	330	323	320	315	312	326	318	317	312	310	315	309	307	304
2.50	408	405	356	355	395	352	378	373	343	342	335	333	329	326	337	331	330	325	324	327	322	319	316
3.00	418	415	362	361	404	358	390	385	351	349	344	342	339	336	345	339	338	335	333	335	331	328	325
4.00	429	426	368	367	414	364	403	399	358	357	354	352	349	347	352	348	347	344	343	343	340	336	333
5.00	436	433	371	371	420	367	411	407	363	362	359	357	355	353	356	353	352	350	349	347	345	340	338
10.00	450	449	378	378	433	374	428	426	372	371	370	369	368	367	364	363	363	362	361	357	355	350	347
20.00	457	457	381	381	440	377	438	437	376	376	376	375	375	374	369	368	368	368	367	361	361	354	351

LM53 SHR C0-C180: 1.008 SHR C90-C270: 1.019 SHR Square: 1.023

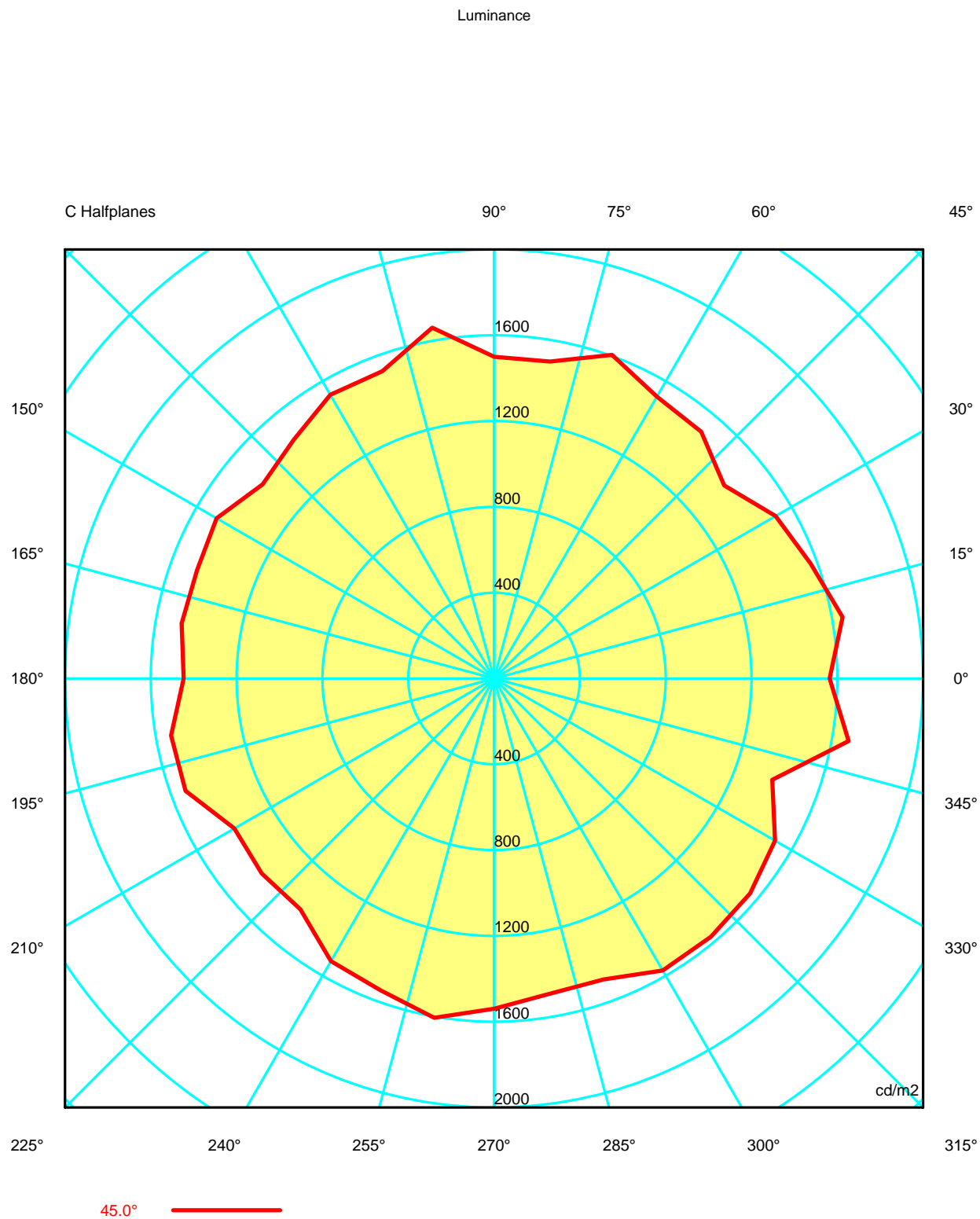
Luminaire		Measur.		Lamp	
Code	2510	Code	2510	Code	3 led 350mA 3.7W
Name	3 cluster hanging lamp comp.1	Name	3 cluster hanging lamp comp.1	Number	1
Line	VIBIA-Cosmos	Date	16-06-2014	Position	Universal
Efficiency	35.21%	Coordinate system	CG	Total Flux	1278.00 lm

Average Luminance [cd/m²]									
0.0°	45°	50°	55°	60°	65°	70°	75°	80°	85°
1564	822	439	318	256	209	183	173	159	---
90.0°	1500	911	550	363	281	253	222	180	145

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		Measurem.		Lamp	
Code	2510	Code	2510	Code	3 led 350mA 3.7W
Name	3 cluster hanging lamp comp.1	Name	3 cluster hanging lamp comp.1	Number	1
Line	VIBIA-Cosmos	Date	16-06-2014	Position	Universal
Efficiency	35.21%	Coordinate system	CG	Total Flux	1278.00 lm



Luminaire					Measurem.					Lamp				
Code	2510				Code	2510				Code	3 led 350mA 3.7W			
Name	3 cluster hanging lamp comp.1				Name	3 cluster hanging lamp comp.1				Number	1			
Line	VIBIA-Cosmos				Date	16-06-2014				Position	Universal			
Efficiency					35.21%		Coordinate system		CG		Total Flux		1278.00 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	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	
G 5.0	5745.85	5714.28	5781.14	5773.82	5810.31	5937.54	5939.51	5985.21	5996.77	6016.86	5952.84	5911.69	5945.91	
G 10.0	5690.90	5644.62	5717.38	5773.57	5847.38	5920.85	5930.94	5999.35	6007.17	6023.92	5950.21	5923.97	5966.13	
G 15.0	5607.35	5575.36	5565.82	5577.46	5561.35	5652.56	5677.28	5723.54	5704.84	5683.38	5680.75	5752.75	5765.85	
G 20.0	5371.54	5372.30	5317.21	5280.66	5198.29	5318.63	5339.40	5305.39	5265.27	5213.87	5262.81	5412.89	5419.15	
G 25.0	4869.52	4907.59	4951.88	4917.78	4904.00	5080.29	5062.99	4904.72	4870.49	4837.54	4831.49	4932.67	5001.77	
G 30.0	4162.21	4240.07	4357.54	4350.75	4419.14	4610.50	4583.63	4390.10	4339.01	4327.00	4299.59	4278.50	4380.57	
G 35.0	3347.50	3463.78	3445.71	3448.45	3465.49	3571.09	3618.79	3591.58	3456.56	3417.32	3545.83	3420.06	3426.50	
G 40.0	2464.37	2590.95	2423.59	2408.71	2321.26	2353.65	2455.54	2601.31	2412.02	2353.43	2623.66	2452.29	2371.02	
G 45.0	1564.05	1649.23	1569.02	1514.88	1399.97	1501.49	1517.15	1605.66	1500.65	1500.07	1660.63	1524.72	1527.24	
G 50.0	822.48	860.02	944.67	866.72	793.28	988.37	885.39	820.90	834.78	911.00	867.26	814.68	934.86	
G 55.0	439.25	482.51	549.89	504.58	489.20	629.98	538.46	454.27	467.78	550.34	464.73	489.66	554.73	
G 60.0	317.95	388.05	331.23	341.74	358.45	387.30	382.79	364.11	314.68	363.42	346.61	406.26	335.74	
G 65.0	255.93	311.05	213.47	242.90	226.81	262.98	291.38	283.61	236.92	281.04	288.39	309.59	217.53	
G 70.0	208.58	220.13	171.52	184.12	108.33	223.99	227.67	185.55	198.41	252.98	237.41	188.56	170.38	
G 75.0	183.17	171.30	192.80	180.58	130.32	212.15	182.07	134.28	194.34	222.26	196.65	130.25	168.37	
G 80.0	173.12	163.60	252.27	222.10	175.10	202.96	151.45	135.62	211.53	179.79	165.11	140.77	194.42	
G 85.0	159.44	160.06	303.81	287.07	225.45	173.27	140.65	171.75	225.85	145.36	142.32	188.65	232.80	
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Luminaire					Measurem.					Lamp																	
Code	2510				Code	2510				Code	3 led 350mA 3.7W																
Name	3 cluster hanging lamp comp.1				Name	3 cluster hanging lamp comp.1				Number	1																
Line	VIBIA-Cosmos				Date	16-06-2014				Position	Universal																
Efficiency					35.21%		Coordinate system		CG		Total Flux		1278.00 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	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85			
G 5.0	5839.12	5801.69	5813.65	5801.55	5820.82	5945.25	5820.20	5936.47	5803.96	5767.16	5739.21	5770.65	5824.08	5905.66	5829.94	5854.15	5732.71	5868.65	5937.81	5867.40	5926.84	5834.54	5681.46	5667.41	5767.14	5875.24	
G 10.0	5689.69	5630.92	5650.64	5538.71	5614.39	5670.74	5584.22	5665.26	5655.61	5499.35	5560.70	5557.10	5591.21	5335.88	5317.89	5312.96	5260.28	5235.27	5273.38	5193.16	5257.77	5304.32	5243.20	5360.70	5264.94	5173.15	
G 20.0	4917.17	4936.51	4893.43	4925.30	4832.01	4877.15	4828.00	4818.43	4778.99	4915.50	4991.18	4945.36	4745.38	4305.93	4336.62	4311.21	4374.99	4263.23	4315.38	4300.66	4223.84	4077.36	4338.28	4339.70	4416.64	4190.10	
G 30.0	3375.17	3377.19	3476.96	3458.89	3377.12	3404.20	3407.03	3340.03	3210.83	3357.55	3339.27	3499.62	3368.46	2328.45	2291.99	2482.37	2389.43	2358.12	2347.03	2374.16	2354.17	2272.93	2256.36	2250.32	2424.01	2415.86	
G 40.0	1453.00	1408.17	1493.78	1473.90	1479.09	1447.42	1528.85	1530.84	1398.18	1414.11	1404.69	1521.08	1546.68	835.09	815.96	728.21	824.20	841.15	807.76	915.24	926.58	743.51	864.72	839.86	881.15	879.47	
G 50.0	496.39	525.48	397.35	485.88	487.79	465.82	501.32	538.15	455.28	539.88	506.33	520.58	498.96	346.91	408.82	344.71	347.28	323.86	331.43	270.84	323.09	394.84	363.45	334.62	360.25	330.20	
G 60.0	251.86	286.36	281.86	237.55	203.57	263.05	205.40	220.00	320.78	250.46	240.46	279.75	238.20	183.05	170.59	188.27	145.55	122.71	221.47	233.89	185.54	223.13	184.83	186.53	229.53	183.14	
G 70.0	149.13	156.27	147.96	123.07	151.39	197.84	242.43	171.41	184.22	173.39	144.65	175.71	153.45	151.49	227.55	162.30	164.32	209.59	182.72	214.46	165.90	200.86	195.91	111.65	120.82	146.25	
G 80.0	204.29	285.93	183.25	232.23	256.04	159.94	192.16	181.63	213.11	197.05	105.65	102.76	174.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Luminaire					Measurem.					Lamp				
Code	2510				Code	2510				Code	3 led 350mA 3.7W			
Name	3 cluster hanging lamp comp.1				Name	3 cluster hanging lamp comp.1				Number	1			
Line	VIBIA-Cosmos				Date	16-06-2014				Position	Universal			
Efficiency					35.21%		Coordinate system		CG		Total Flux		1278.00 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	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	5817.85	
G 5.0	5945.25	5820.20	5936.47	5803.96	5767.16	5739.21	5770.65	5824.08	5928.72	6013.37	5991.65	5924.45	5989.89	
G 10.0	5937.81	5867.40	5926.84	5834.54	5681.46	5667.41	5767.14	5875.24	5933.16	6029.31	5975.29	5910.61	5997.90	
G 15.0	5670.74	5584.22	5665.26	5655.61	5499.35	5560.70	5557.10	5591.21	5722.63	5717.44	5622.49	5664.93	5700.67	
G 20.0	5273.38	5193.16	5257.77	5304.32	5243.20	5360.70	5264.94	5173.15	5386.70	5281.02	5192.83	5323.34	5269.61	
G 25.0	4877.15	4828.00	4818.43	4778.99	4915.50	4991.18	4945.36	4745.38	5016.47	4926.91	4935.09	5011.73	4882.48	
G 30.0	4315.38	4300.66	4223.84	4077.36	4338.28	4339.70	4416.64	4190.10	4475.44	4441.92	4535.36	4507.62	4361.16	
G 35.0	3404.20	3407.03	3340.03	3210.83	3357.55	3339.27	3499.62	3368.46	3612.78	3570.39	3628.11	3572.01	3495.30	
G 40.0	2347.03	2374.16	2354.17	2272.93	2256.36	2250.32	2424.01	2415.86	2576.46	2500.07	2473.84	2445.84	2468.67	
G 45.0	1447.42	1528.85	1530.84	1398.18	1414.11	1404.69	1521.08	1546.68	1606.08	1539.20	1492.29	1492.71	1571.63	
G 50.0	807.76	915.24	926.58	743.51	864.72	839.86	881.15	879.47	867.22	826.90	812.38	829.14	928.82	
G 55.0	465.82	501.32	538.15	455.28	539.88	506.33	520.58	498.96	491.68	445.62	470.62	490.98	604.18	
G 60.0	331.43	270.84	323.09	394.84	363.45	334.62	360.25	330.20	362.46	299.94	354.27	364.21	471.14	
G 65.0	263.05	205.40	220.00	320.78	250.46	240.46	279.75	238.20	272.16	226.53	289.44	274.68	333.01	
G 70.0	221.47	233.89	185.54	223.13	184.83	186.53	229.53	183.14	195.68	182.92	230.22	187.89	189.48	
G 75.0	197.84	242.43	171.41	184.22	173.39	144.65	175.71	153.45	175.84	164.32	171.20	119.03	122.13	
G 80.0	182.72	214.46	165.90	200.86	195.91	111.65	120.82	146.25	205.80	165.65	121.19	84.36	133.26	
G 85.0	159.94	192.16	181.63	213.11	197.05	105.65	102.76	174.01	249.43	186.70	117.20	152.60	185.85	
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	