

Luminaire		Measurem.		Lamp	
Code	0536	Code	0536	Code	DULUX L 36 W/827
Name	Hanging lamp d/100	Name	Hanging lamp d/100	Number	4
Line	VIBIA-Big	Date	23-09-2009	Position	Universal
Efficiency		50.81%		Coordinate system	
Maximum value		178.68 cd/klm		C-G	
		Position		C=0.00 G=0.00	
Round Luminaire		Diam.		Height	
Round Luminous Area		1000 mm		170 mm	
		Diam.		Height	
		950 mm		1 mm	
Horizontal Luminous Area		0.708822 m2		Emitting area on Plane 180°	
Emitting area on Plane 0°		0.000950 m2		Emitting area on Plane 270°	
Emitting area on Plane 90°		0.000950 m2		Glare area at 76°	
Symmetry Type		Double Symmetrical		90	
Measurement Distance		5.46		Maximum Gamma Angle	
				Measurement Flux	
Operator		Asselum		230.00 V	
Temperature		23.00 °C		Source voltage	
Humidity		50.00 %		Source current	
Notes				Photocell	
				PRC	
Luminaire Lamps					
Line	Code	Name		Fluxlm	Pow.W
OSRAM 2006 FB,T,G,C,FS,Q,M,D	DULUX L 36 W/827	DULUX® L 36W/827 2G11		2900.00	36.00
OSRAM 2006 FB,T,G,C,FS,Q,M,D	DULUX L 24 W/827	DULUX® L 24W/827 2G11		1800.00	24.00
C.I.E.	47 78 95 100 51	D DIN 5040		A30	
F UTE	0.51 E	B NBN		BZ 5	

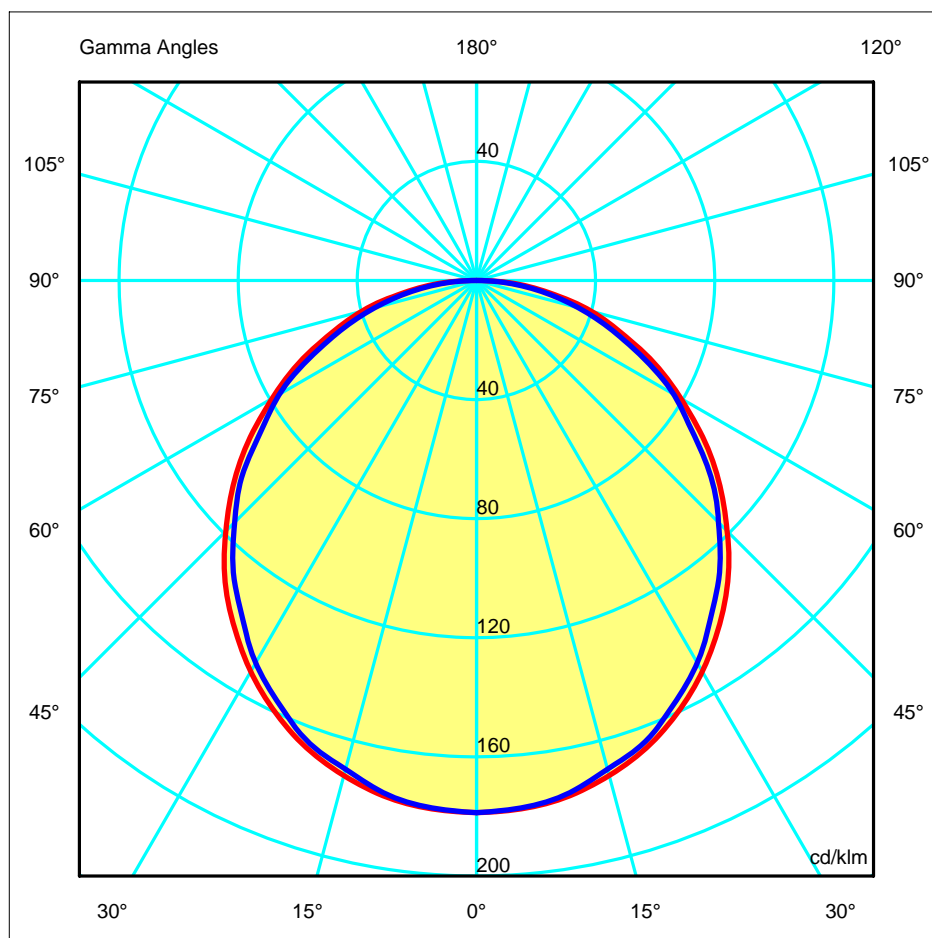
Diam=1000mm



C Halfplanes

180.0 — 0.0
270.0 — 90.0

ULOR 0.00 %
DLOR 50.81 %
RN 0.00 %



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Name	Hanging lamp d/100	Name	Hanging lamp d/100			Number	4
Line	VIBIA-Big	Date	23-09-2009			Position	Universal
Efficiency	50.81%	Coordinate system		C-G	Total Flux		9400.00 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
G 0.0	178.68	178.68	178.68	178.68	178.68	178.68	178.68
G 5.0	178.03	177.97	177.82	177.78	177.76	177.60	177.68
G 10.0	176.01	175.51	175.46	175.27	175.23	175.14	175.07
G 15.0	172.11	171.03	171.12	171.14	170.73	170.29	169.90
G 20.0	166.96	165.71	165.69	165.18	165.27	165.07	165.03
G 25.0	159.97	158.24	157.99	157.53	157.72	156.29	156.87
G 30.0	151.63	149.98	149.98	149.19	149.01	148.81	148.30
G 35.0	141.85	139.24	139.46	138.40	137.72	137.34	137.38
G 40.0	131.42	129.30	129.09	128.51	127.82	127.18	127.08
G 45.0	119.00	116.44	115.46	115.23	114.65	114.23	114.85
G 50.0	106.57	104.49	104.36	103.64	103.41	103.03	102.96
G 55.0	93.23	89.51	89.46	88.72	89.03	88.28	88.41
G 60.0	79.18	77.19	77.74	76.61	76.91	76.90	76.43
G 65.0	66.08	63.24	63.73	62.51	62.20	60.60	62.10
G 70.0	51.88	49.17	49.21	48.50	48.17	48.64	48.05
G 75.0	40.10	36.26	36.93	35.89	36.89	34.87	35.74
G 80.0	25.86	23.25	23.46	22.98	22.82	22.57	22.63
G 85.0	14.16	10.52	11.17	10.88	11.42	10.19	12.13
G 90.0	1.10	0.62	0.60	0.56	0.51	0.43	0.43

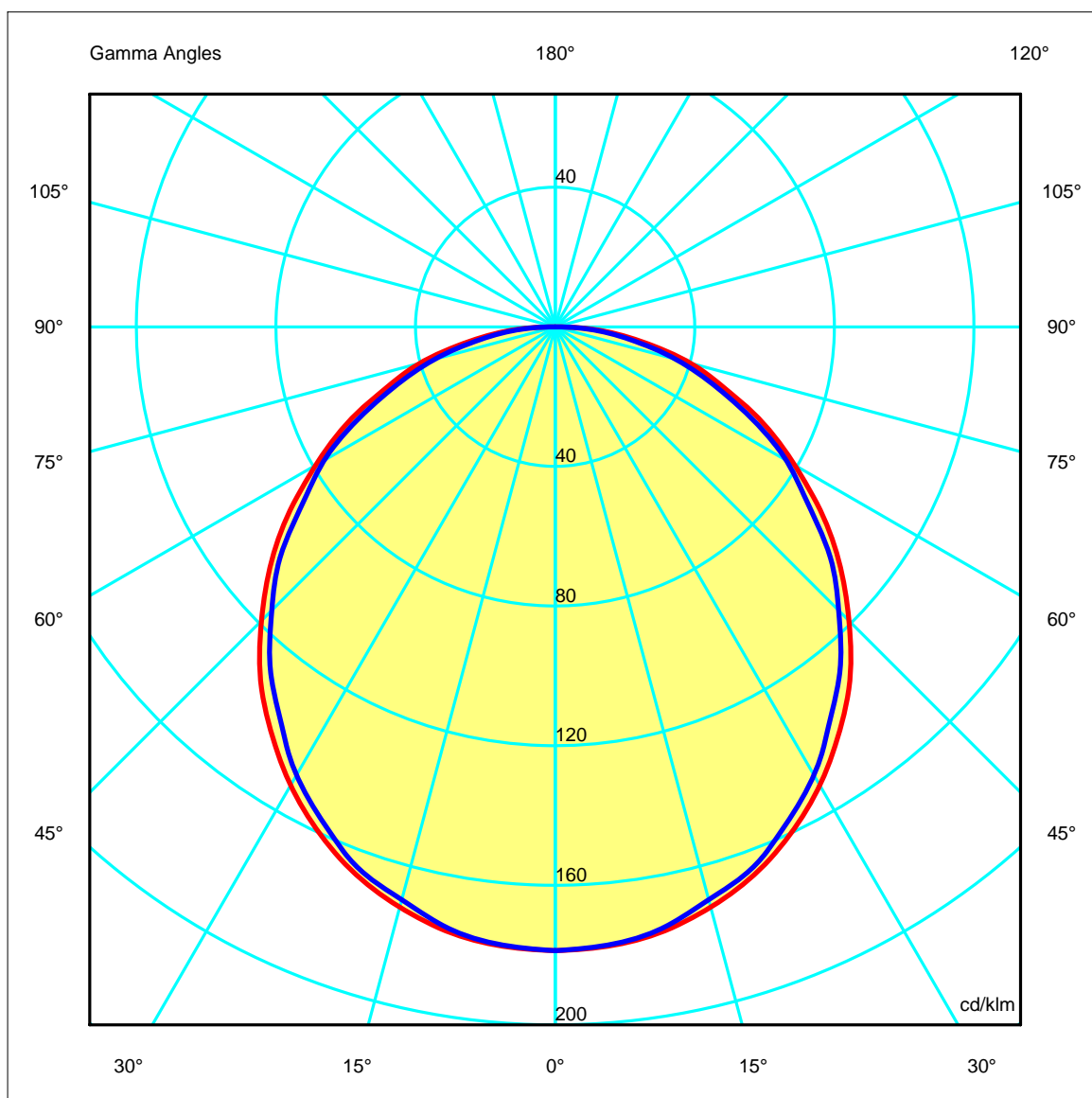
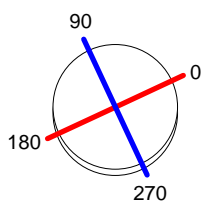
Luminaire		Measurem.		Lamp	
Code	0536	Code	0536	Code	DULUX L 36 W/827
Name	Hanging lamp d/100	Name	Hanging lamp d/100	Number	4
Line	VIBIA-Big	Date	23-09-2009	Position	Universal
Efficiency	50.81%	Coordinate system	C-G	Total Flux	9400.00 lm

Diam=1000mm

C Halfplanes

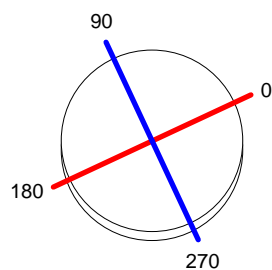
180.0 ————— 0.0

270.0 ————— 90.0



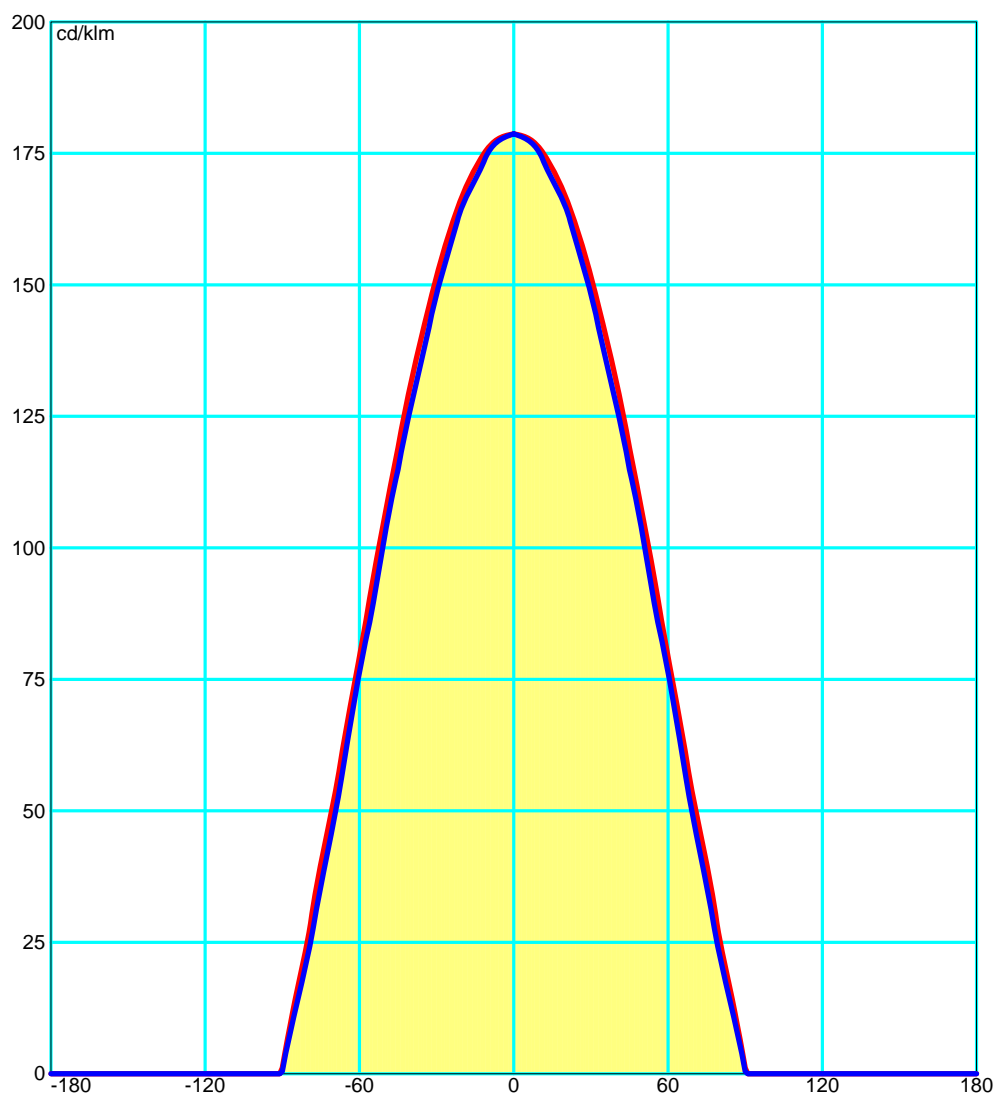
Luminaire		Measurem.		Lamp	
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C Halfplanes

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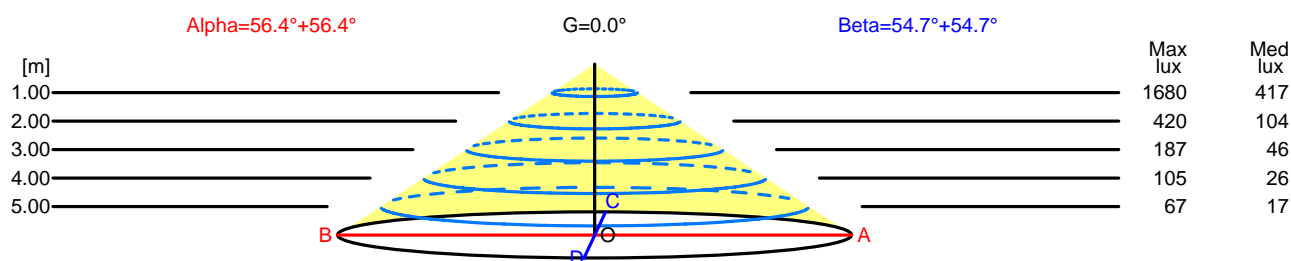


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Code	0536	Code	0536	Code	DULUX L 36 W/827
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Width at 50.00 % of MaxLux

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	1.50	3.01	4.51	6.01	7.52	OC	1.41	2.82	4.23	5.64	7.05
OB	1.50	3.01	4.51	6.01	7.52	OD	1.41	2.82	4.23	5.64	7.05

	Luminous Intensities [cd/klm]									
	0	5	15	25	35	45	55	65	75	85
OA	178.68	178.03	172.11	159.97	141.85	119.00	93.23	66.08	40.10	14.16
OB	178.68	178.03	172.11	159.97	141.85	119.00	93.23	66.08	40.10	14.16
OC	178.68	177.68	169.90	156.87	137.38	114.85	88.41	62.10	35.74	12.13
OD	178.68	177.68	169.90	156.87	137.38	114.85	88.41	62.10	35.74	12.13



H[m]	D[m]	Max lux	Med lux	Alpha=56.4°+56.4°	G=0.0
1.00	3.01	1680	417		
2.00	6.01	420	104		
3.00	9.02	187	46		
4.00	12.03	105	26		
5.00	15.04	67	17		

H[m]	D[m]	Max lux	Med lux	Beta=54.7°+54.7°	G=0.0
1.00	2.82	1680	417		
2.00	5.64	420	104		
3.00	8.46	187	46		
4.00	11.28	105	26		
5.00	14.10	67	17		

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Efficiency	50.81%	Coordinate system	C-G	Total Flux	9400.00 lm

Total Flux=9400.00 Luminaire Flux=4776.38

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	0.30	0.39	0.46	0.53	0.59	0.67	0.73	0.77	0.82	0.85	0.92	0.96
RC	5	5	5	5	5	5	5	5	5	5	5	5

Zonal Flux per 1000 Lumen

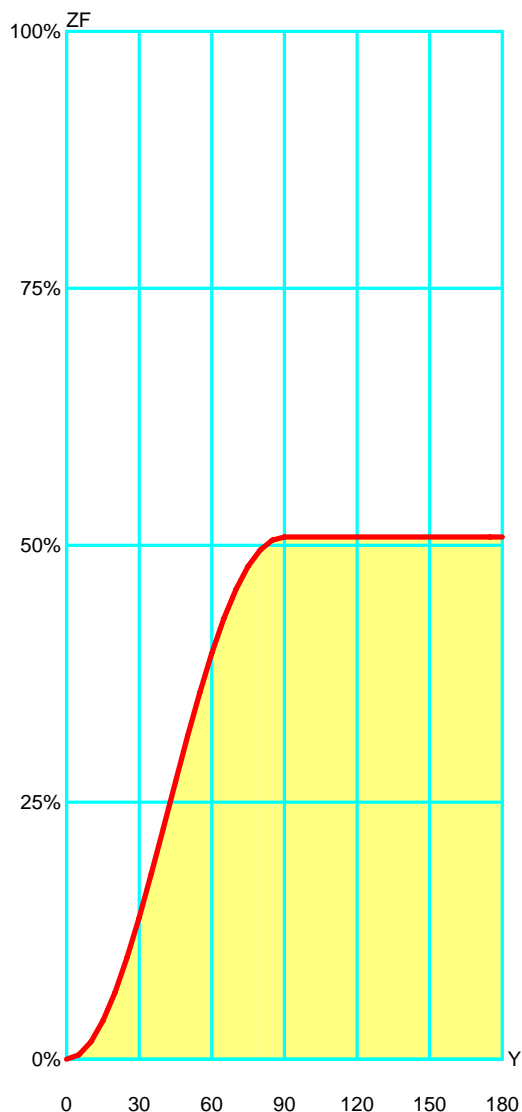
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	17	65	138	225	314	395	457	496	508	508	508	508	508	508	508	508	508	508

CIE Flux Codes

47 78 95 100 51

C.I.E. 5
D DIN 5040 A30
F UTE 0.51 E
B NBN BZ 5
RN 0.00000 %
BLF 1.0

LOR 50.81251 %
ULOR 0.00000 %
DLOR 50.81251 %
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°	4.26	4.26	0.84 %	0.84 %
10°	12.63	16.90	2.49 %	3.32 %
15°	20.54	37.43	4.04 %	7.37 %
20°	27.72	65.16	5.46 %	12.82 %
25°	33.90	99.05	6.67 %	19.49 %
30°	38.87	137.93	7.65 %	27.14 %
35°	42.43	180.35	8.35 %	35.49 %
40°	44.57	224.93	8.77 %	44.27 %
45°	45.18	270.11	8.89 %	53.16 %
50°	44.34	314.45	8.73 %	61.88 %
55°	42.02	356.47	8.27 %	70.15 %
60°	38.49	394.95	7.57 %	77.73 %
65°	34.01	428.97	6.69 %	84.42 %
70°	28.28	457.24	5.56 %	89.99 %
75°	22.32	479.57	4.39 %	94.38 %
80°	15.97	495.54	3.14 %	97.52 %
85°	9.36	504.89	1.84 %	99.36 %
90°	3.23	508.13	0.64 %	100.00 %
95°	0.00	508.13	0.00 %	100.00 %
100°	0.00	508.13	0.00 %	100.00 %
105°	0.00	508.13	0.00 %	100.00 %
110°	0.00	508.13	0.00 %	100.00 %
115°	0.00	508.13	0.00 %	100.00 %
120°	0.00	508.13	0.00 %	100.00 %
125°	0.00	508.13	0.00 %	100.00 %
130°	0.00	508.13	0.00 %	100.00 %
135°	0.00	508.13	0.00 %	100.00 %
140°	0.00	508.13	0.00 %	100.00 %
145°	0.00	508.13	0.00 %	100.00 %
150°	0.00	508.13	0.00 %	100.00 %
155°	0.00	508.13	0.00 %	100.00 %
160°	0.00	508.13	0.00 %	100.00 %
165°	0.00	508.13	0.00 %	100.00 %
170°	0.00	508.13	0.00 %	100.00 %
175°	0.00	508.13	0.00 %	100.00 %
180°	0.00	508.13	0.00 %	100.00 %

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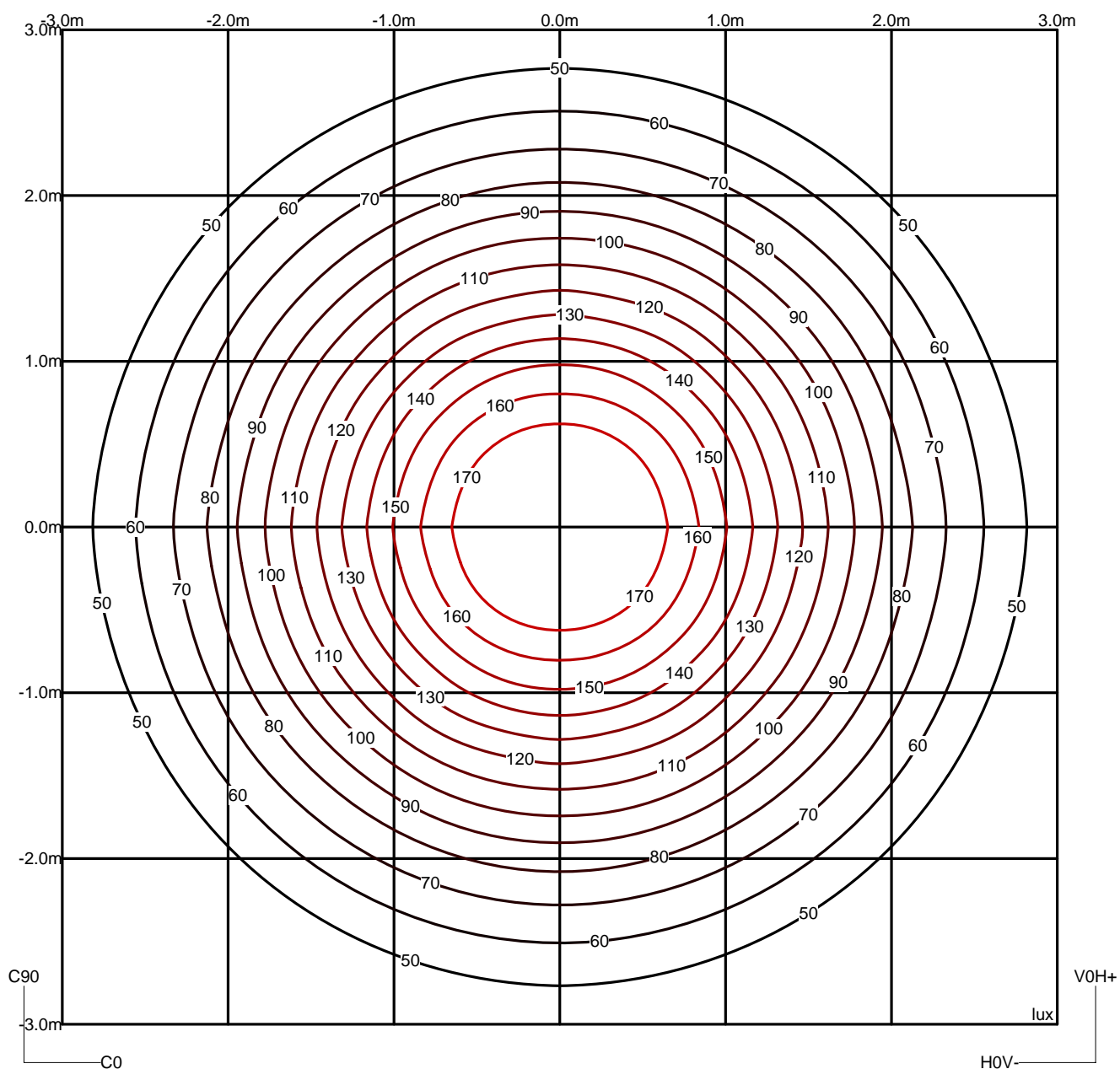
UGR
S = 0.250

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	15.0	16.4	15.4	16.6	16.7	14.9	16.3	15.2	16.5	16.7
x=2H y=3H	16.8	18.0	17.1	18.3	18.3	16.6	17.8	16.9	18.1	18.3
x=2H y=4H	17.5	18.6	17.8	18.9	19.0	17.3	18.4	17.6	18.7	19.0
x=2H y=6H	18.2	19.2	18.5	19.5	19.5	17.9	18.9	18.2	19.2	19.5
x=2H y=8H	18.4	19.5	18.8	19.8	19.7	18.1	19.1	18.4	19.4	19.7
x=2H y=12H	18.6	19.6	19.0	19.9	19.9	18.3	19.2	18.6	19.6	19.9
x=4H y=2H	15.8	16.9	16.1	17.2	17.4	15.7	16.8	16.1	17.1	17.4
x=4H y=3H	17.7	18.7	18.1	19.0	19.2	17.6	18.5	17.9	18.9	19.2
x=4H y=4H	18.6	19.5	19.0	19.8	20.0	18.4	19.3	18.8	19.6	20.0
x=4H y=6H	19.4	20.1	19.8	20.5	20.7	19.1	19.9	19.6	20.3	20.7
x=4H y=8H	19.7	20.4	20.1	20.8	20.9	19.4	20.1	19.8	20.5	20.9
x=4H y=12H	19.9	20.6	20.4	21.0	21.1	19.6	20.2	20.1	20.7	21.1
x=8H y=4H	19.0	19.7	19.4	20.1	20.3	18.8	19.5	19.2	19.9	20.3
x=8H y=6H	19.9	20.5	20.4	20.9	21.1	19.7	20.3	20.2	20.7	21.1
x=8H y=8H	20.3	20.8	20.8	21.2	21.5	20.0	20.6	20.5	21.0	21.5
x=8H y=12H	20.6	21.1	21.1	21.5	21.7	20.4	20.8	20.8	21.3	21.7
x=12H y=4H	19.0	19.6	19.5	20.1	20.3	18.9	19.5	19.3	19.9	20.3
x=12H y=6H	20.0	20.5	20.5	20.9	21.2	19.8	20.3	20.3	20.7	21.2
x=12H y=8H	20.4	20.9	20.9	21.3	21.6	20.2	20.6	20.7	21.1	21.6

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Isolux (Floor)

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



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Line	VIBIA-Big			Date	23-09-2009			Position	Universal		
Efficiency	50.81%			Coordinate system	C-G			Total Flux	9400.00 lm		

Utilizations CIE

Mounting	Direct				114-Norm type 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	111	99	87	79	95	75	57	48	44	38	24	18	9	6	35	19	17	7	6	16	6	5	0					
0.80	128	118	93	86	112	82	71	62	51	45	29	23	12	9	42	24	22	10	8	20	9	8	0					
1.00	140	130	94	88	124	84	83	74	54	49	32	26	15	11	46	27	25	13	11	24	11	10	0					
1.25	150	141	93	88	134	85	95	86	57	52	35	30	18	15	49	31	29	16	14	27	14	13	0					
1.50	157	149	91	87	142	84	105	96	58	54	38	33	21	17	51	33	31	19	17	30	17	15	0					
2.00	166	160	86	83	152	80	119	111	59	55	41	37	26	22	52	37	35	24	21	34	22	20	0					
2.50	172	167	81	79	159	77	129	123	59	56	43	39	30	26	53	39	38	27	25	36	25	24	0					
3.00	176	171	78	76	164	74	137	131	58	56	45	41	33	29	53	41	40	30	28	38	28	27	0					
4.00	182	178	73	72	170	70	148	143	58	56	47	44	37	34	54	44	43	35	33	41	33	31	0					
5.00	185	182	70	70	174	68	156	151	58	56	48	46	40	37	54	45	45	37	36	43	36	34	0					
10.00	193	191	64	63	183	62	173	170	57	56	51	50	46	45	54	49	49	44	44	47	43	41	0					
20.00	197	196	60	59	188	59	182	181	56	55	53	52	50	49	54	51	51	49	48	50	47	46	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	238	232	209	204	229	202	180	176	163	160	137	134	118	117	159	135	134	117	117	133	117	116	106										
0.80	269	262	228	224	257	221	210	205	185	182	158	156	139	137	179	156	155	138	137	154	137	137	125										
1.00	289	283	240	236	277	232	231	225	199	196	173	171	154	152	193	170	169	153	152	168	152	151	137										
1.25	307	301	248	245	293	241	250	245	211	208	187	184	168	166	204	183	182	166	165	181	165	164	149										
1.50	320	314	253	250	306	247	265	260	219	216	197	194	179	177	212	193	192	177	176	190	175	174	157										
2.00	333	328	255	253	318	249	283	278	226	224	207	204	191	189	219	203	201	188	187	199	186	184	166										
2.50	341	336	254	253	326	249	295	290	229	228	213	210	199	196	223	208	207	196	194	204	193	191	171										
3.00	345	341	253	252	330	248	303	298	231	229	216	214	204	201	224	211	211	200	199	207	197	195	174										
4.00	354	351	254	253	338	249	316	312	235	234	223	221	213	210	229	218	217	209	208	214	205	202	180										
5.00	361	358	255	254	345	250	325	322	239	238	229	227	220	217	232	224	223	215	214	219	211	208	185										
10.00	374	373	257	257	358	253	347	344	247	246	241	240	235	234	240	235	235	230	229	230	225	221	195										
20.00	378	377	254	254	361	250	355	354	247	247	244	243	240	239	240	238	237	235	234	232	229	224	197										

Working Pl.

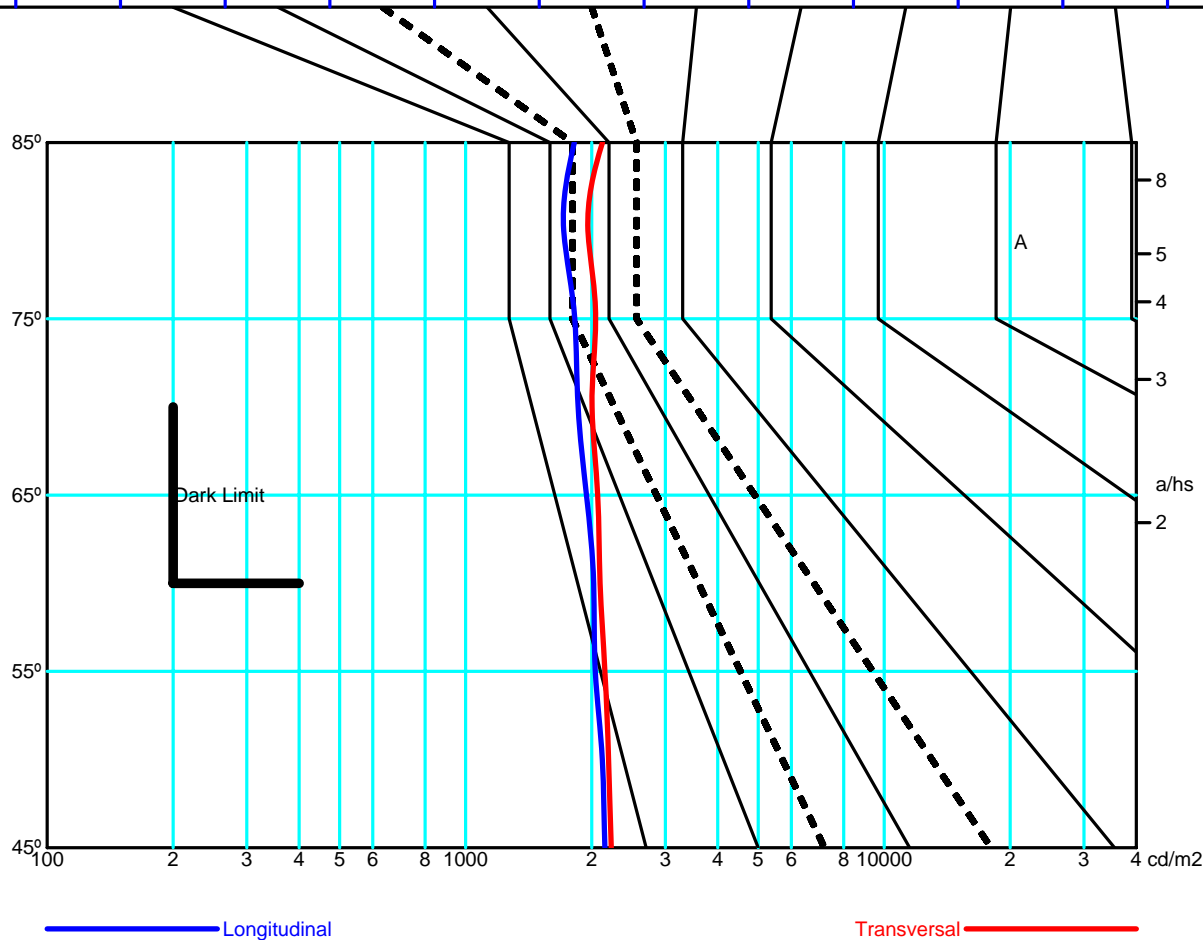
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0.60	301	295	281	276	291	273	232	228	223	220	189	187	165	164	218	187	186	164	164	185	164	163	154										
0.80	356	348	328	323	342	318	283	278	270	266	235	232	209	207	263	232	231	208	207	229	207	206	197										
1.00	398	391	363	358	383	353	325	319	308	304	273	270	247	245	299	269	268	245	244	266	244	243	234										
1.25	438	431	395	391	421	385	367	360	343	340	311	307	285	282	334	306	304	282	281	302	281	279	270										
1.50	468	461	418	415	450	408	398	391	370	366	339	335	314	311	360	334	332	311	310	329	309	307	298										
2.00	512	506	451	448	492	442	447	440	410	407	383	379	361	357	399	376	375	357	355	371	353	350	342										
2.50	540	534	471	469	519	462	480	473	435	432	412	408	392	388	424	404	403	387	385	398	383	379	371										
3.00	560	555	485	483	538	477	503	497	453	451	433	429	414	411	442	424	423	409	407	417	404	399	392										
4.00	585	581	502	500	562	494	534	528	475	473	458	455	443	440	464	449	448	436	434	441	430	425	418										
5.00	601	597	512	511	577	504	553	548	488	487	474	471	461	458	477	465	464	454	452	456	447	441	434										
10.00	633	631	532	531	609	525	595	592	516	515	508	507	501	498	505	498	497	491	490	488	483	475	469										
20.00	651	650	542	542	626	536	618	617	531	531	527	526	523	522	520	516	516	513	512	506	503	494	488										

LM53 SHR C0-C180: 1.250 SHR C90-C270: 1.226 SHR Square: 1.358

Luminaire		Measur.		Lamp	
Code	0536	Code	0536	Code	DULUX L 36 W/827
Name	Hanging lamp d/100	Name	Hanging lamp d/100	Number	4
Line	VIBIA-Big	Date	23-09-2009	Position	Universal
Efficiency	50.81%	Coordinate system	C-G	Total Flux	9400.00 lm

Average Luminance [cd/m²]										
0°	45°	50°	55°	60°	65°	70°	75°	80°	85°	
2228.7	2195.2	2151.5	2095.3	2067.5	2004.1	2044.5	1959.7	2122.0	---	
2151.1	2120.8	2040.1	2022.5	1943.1	1856.3	1821.9	1715.0	1818.5	---	

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	0536			Code	0536			Code	DULUX L 36 W/827		
Name	Hanging lamp d/100			Name	Hanging lamp d/100			Number	4		
Line	VIBIA-Big			Date	23-09-2009			Position	Universal		
Efficiency	50.81%			Coordinate system	C-G			Total Flux	9400.00 lm		

Luminance												
G/C	0	30	60	90	120	150	180	210	240	270	300	330
0°	2369.61	2369.61	2369.61	2369.61	2369.61	2369.61	2369.61	2369.61	2369.61	2369.61	2369.61	2369.61
5°	2369.73	2366.89	2366.07	2364.99	2366.07	2366.89	2369.73	2366.89	2366.07	2364.99	2366.07	2366.89
10°	2369.56	2362.26	2359.15	2357.00	2359.15	2362.26	2369.56	2362.26	2359.15	2357.00	2359.15	2362.26
15°	2362.07	2348.46	2343.12	2331.74	2343.12	2348.46	2362.07	2348.46	2343.12	2331.74	2343.12	2348.46
20°	2355.10	2337.20	2331.28	2327.82	2331.28	2337.20	2355.10	2337.20	2331.28	2327.82	2331.28	2337.20
25°	2339.30	2310.34	2306.42	2293.95	2306.42	2310.34	2339.30	2310.34	2306.42	2293.95	2306.42	2310.34
30°	2320.15	2294.83	2280.01	2269.12	2280.01	2294.83	2320.15	2294.83	2280.01	2269.12	2280.01	2294.83
35°	2294.32	2255.56	2227.54	2221.93	2227.54	2255.56	2294.32	2255.56	2227.54	2221.93	2227.54	2255.56
40°	2272.52	2232.22	2210.30	2197.41	2210.30	2232.22	2272.52	2232.22	2210.30	2197.41	2210.30	2232.22
45°	2228.73	2162.58	2147.29	2151.13	2147.29	2162.58	2228.73	2162.58	2147.29	2151.13	2147.29	2162.58
50°	2195.17	2149.55	2130.04	2120.84	2130.04	2149.55	2195.17	2149.55	2130.04	2120.84	2130.04	2149.55
55°	2151.47	2064.46	2054.58	2040.08	2054.58	2064.46	2151.47	2064.46	2054.58	2040.08	2054.58	2064.46
60°	2095.27	2057.13	2035.02	2022.48	2035.02	2057.13	2095.27	2057.13	2035.02	2022.48	2035.02	2057.13
65°	2067.53	1994.00	1946.10	1943.09	1946.10	1994.00	2067.53	1994.00	1946.10	1943.09	1946.10	1994.00
70°	2004.07	1901.25	1860.87	1856.29	1860.87	1901.25	2004.07	1901.25	1860.87	1856.29	1860.87	1901.25
75°	2044.49	1882.97	1881.01	1821.92	1881.01	1882.97	2044.49	1882.97	1881.01	1821.92	1881.01	1882.97
80°	1959.65	1777.88	1729.58	1715.01	1729.58	1777.88	1959.65	1777.88	1729.58	1715.01	1729.58	1777.88
85°	2121.99	1674.46	1710.79	1818.55	1710.79	1674.46	2121.99	1674.46	1710.79	1818.55	1710.79	1674.46
90°	10860.94	5967.06	5002.44	4302.95	5002.44	5967.06	10860.94	5967.06	5002.44	4302.95	5002.44	5967.06

