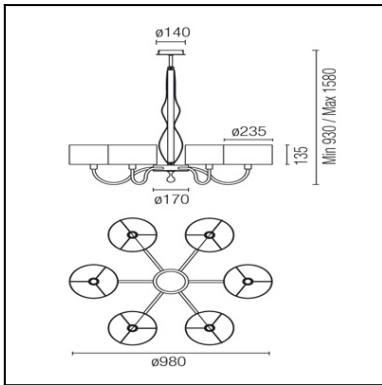


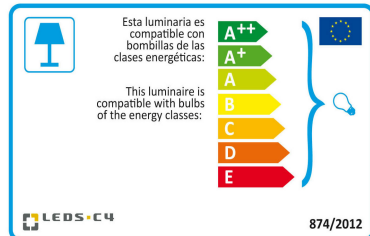
Design by Gemma Bernal



The photograph may not match the reference exactly. Please read the product description to identify the finish.



Download photometric file .ldt /.ies



Click on image to download energy label

TECHNICAL CHARACTERISTICS

Type:	Pendant
IP Protection degrees:	IP20
Light source 1:	6 x E14
Bulb specified at the product label	MAX 60W
Total power consumption (W):	360
Voltage / Frequency:	220-240V/50-60Hz
Warranty:	2
Units per box:	1
Net Weight (Kg):	0.000



MATERIALS / FINISHES

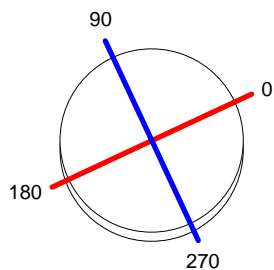
Structure material: Steel
Structure finish: Brown

Diffuser material: Silk shade
Diffuser finish: Antique copper

Luminaria		Ensayo		Lámpara	
Código	00-4369-Z6-V7	Código	00-4369-Z6-V7	Código	DLX EL LL 11W827E14
Nombre	Colg SPICA 6x11W E14 PL + tela	NombreColg.	SPICA 6x11W PL E14 tela	Número	6
Familia	- LEDS-C4	Fecha	13-01-2012	Posición	Universal
Rendimiento	56.96%	Sist. de Coordin.	C-G	Flujo Total	3780.00 lm
Valor Máximo	407.73 cd	Posición	C=60.00 G=125.00	Bisimétrico	
Luminaria Redonda	Diam.	1000 mm	Altura	135 mm	
Área Luminosa Redonda	Diam.	1000 mm	Altura	135 mm	
Área Luminosa Horizontal	0.785398 m ²		Área Emisión sobre Pl. 180°	0.135000 m ²	
Área Emisión sobre Pl. 0°	0.135000 m ²		Área Emisión sobre Pl. 270°	0.135000 m ²	
Área Emisión sobre Pl. 90°	0.135000 m ²		Área de deslumbramiento a 76°	0.320995 m ²	
Tipo de Simetría	Bisimétrico	Máximo Ángulo Gamma	Flujo de Ensayo	180	3840.00 lm
Distancia de Ensayo	6.44				
Operador	Asselum T2	Tensión de alimentación	230.00 V		
Temperatura	20.00 °C	Corr. aliment.			
Humedad	50.00 %	Fotocélula	PRC		
Notas					

Familia		Lámparas de la Luminaria			Flujo/lm	Pot.W	Cant.
OSRAM 2006 FB,T,G,C,FS,Q,M,D		Código	Nombre				
		DLX EL LL 11W827E14	DULUX® EL LONGLIFE 11W/827 E14		630.00	11.00	6
C.I.E.	38 68 86 23 57		D DIN 5040	D23			
F UTE	--		B NBN	BZ 6			

Diam=1000mm



Semiplanos C

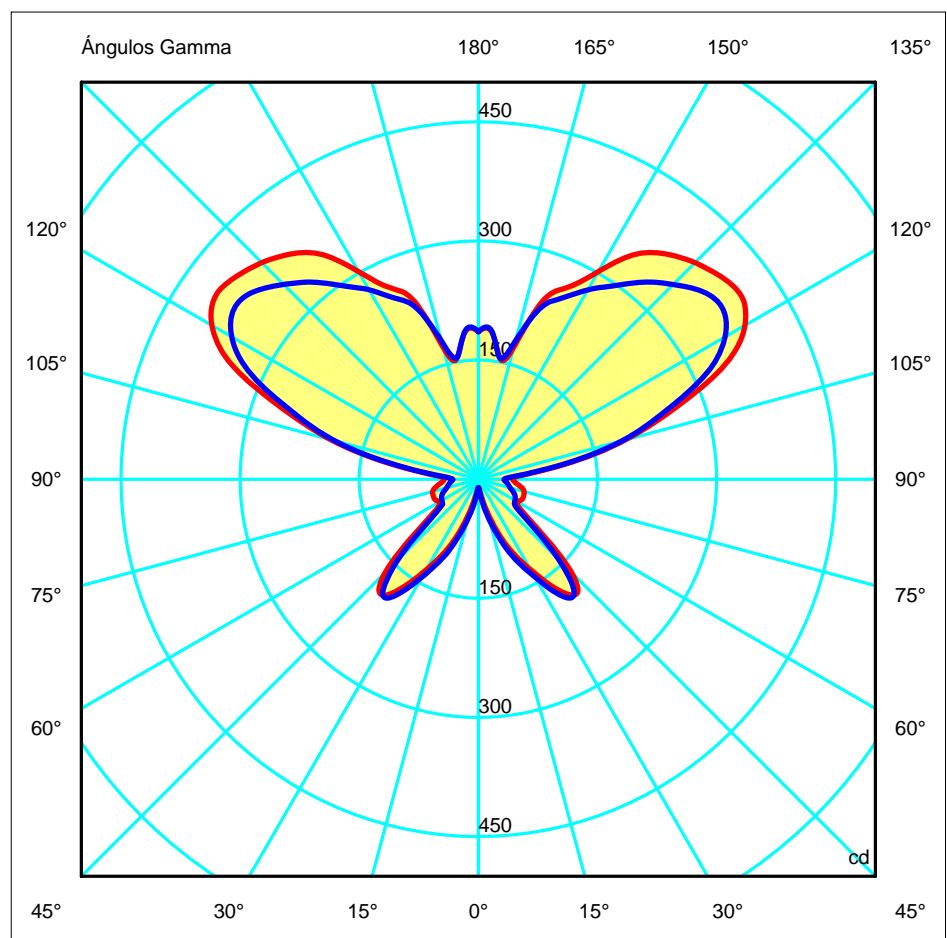
180.0 — 0.0

270.0 — 90.0

ULOR 43.63 %

DLOR 13.33 %

RN 76.60 %



Luminaria		Ensayo		Lámpara	
Código	00-4369-Z6-V7	Código	00-4369-Z6-V7	Código	DLX EL LL 11W827E14
Nombre	Colg SPICA 6x11W E14 PL + tela	NombreColg.	SPICA 6x11W PL E14 tela	Número	6
Familia	- LEDS-C4	Fecha	13-01-2012	Posición	Universal

Rendimiento	56.96%	Sist. de Coorden.	C-G	Flujo Total	3780.00 lm
-------------	--------	-------------------	-----	-------------	------------

	Tabla de Intensidad Luminosa cd				Tabla 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	10.49	10.49	10.49	10.49	10.49	10.49	10.49	
G 5.0	11.53	14.61	14.82	14.73	14.77	15.13	15.39	
G 10.0	23.54	29.33	29.47	27.27	29.06	29.03	31.07	
G 15.0	42.34	50.36	49.83	54.68	54.96	53.47	52.83	
G 20.0	71.34	79.87	77.80	80.73	83.07	81.95	81.29	
G 25.0	102.17	112.26	108.21	110.06	113.22	113.45	112.64	
G 30.0	131.61	143.23	136.41	146.44	147.20	147.24	141.71	
G 35.0	166.53	179.80	169.89	176.86	181.53	182.00	177.47	
G 40.0	189.81	187.36	175.81	188.11	190.26	191.12	187.58	
G 45.0	165.80	145.50	141.63	143.43	148.88	144.30	142.46	
G 50.0	98.52	85.06	84.40	89.93	86.57	85.87	80.45	
G 55.0	62.96	60.71	57.73	60.15	58.39	58.65	55.13	
G 60.0	56.99	58.97	53.24	58.53	58.72	58.52	52.83	
G 65.0	60.46	58.21	51.32	58.00	61.07	58.06	51.14	
G 70.0	60.59	54.72	47.72	55.02	62.57	54.69	46.84	
G 75.0	59.67	51.15	43.82	52.30	61.13	51.43	41.38	
G 80.0	54.02	49.05	40.39	49.98	51.35	48.88	37.94	
G 85.0	46.47	46.47	36.95	47.37	46.14	45.75	34.70	
G 90.0	43.08	44.97	36.42	45.97	43.34	44.30	32.22	
G 95.0	53.34	66.96	56.79	72.20	70.22	64.11	48.35	
G100.0	113.54	131.93	116.91	131.68	136.51	128.45	108.26	
G105.0	192.33	215.55	193.49	207.32	211.61	213.34	187.89	
G110.0	264.70	285.56	254.62	294.26	292.69	288.71	250.56	
G115.0	343.59	358.54	319.30	354.30	360.33	358.36	317.82	
G120.0	387.49	395.14	349.71	397.85	401.41	398.69	358.68	
G125.0	403.66	402.49	351.44	405.04	407.73	406.71	375.26	
G130.0	397.55	393.56	340.27	396.87	396.90	396.63	367.96	
G135.0	385.75	380.40	327.23	373.27	376.34	378.93	346.76	
G140.0	369.86	361.38	315.33	327.48	350.99	356.40	324.07	
G145.0	345.83	315.27	286.88	296.27	341.88	336.68	297.35	
G150.0	302.12	281.20	269.85	277.50	300.49	310.34	275.43	
G155.0	266.27	232.63	242.27	255.40	262.08	254.02	252.08	
G160.0	240.17	218.78	215.75	215.37	211.01	216.40	229.94	
G165.0	172.04	168.58	187.13	161.93	165.44	167.50	180.36	
G170.0	154.85	158.76	158.10	139.68	157.34	154.93	155.14	
G175.0	186.94	176.75	172.65	175.82	176.98	181.02	188.03	
G180.0	185.71	185.71	185.71	185.71	185.71	185.71	185.71	

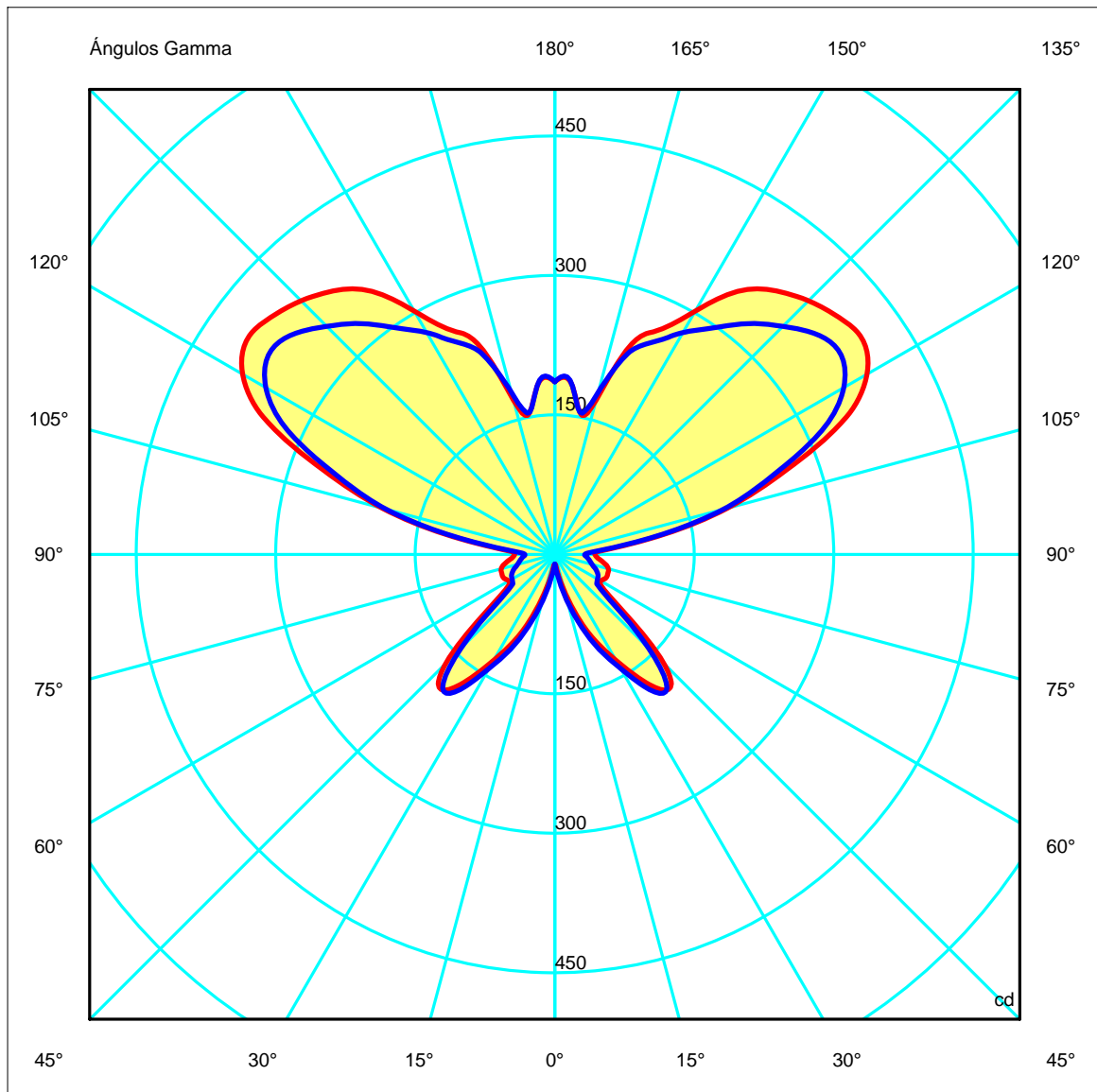
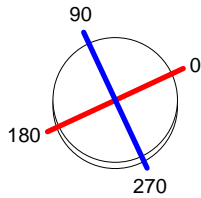
Luminaria		Ensayo		Lámpara	
Código	00-4369-Z6-V7	Código	00-4369-Z6-V7	Código	DLX EL LL 11W827E14
Nombre	Colg SPICA 6x11W E14 PL + tela	NombreColg.	SPICA 6x11W PL E14 tela	Número	6
Familia	- LEDS-C4	Fecha	13-01-2012	Posición	Universal
Rendimiento	56.96%	Sist. de Coorden.	C-G	Flujo Total	3780.00 lm

Diam=1000mm

Semiplanos C

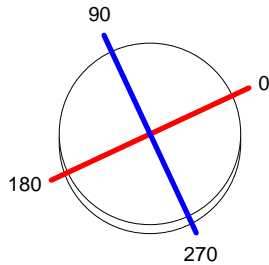
180.0 ——— 0.0

270.0 ——— 90.0



Luminaria		Ensayo		Lámpara	
Código	00-4369-Z6-V7	Código	00-4369-Z6-V7	Código	DLX EL LL 11W827E14
Nombre	Colg SPICA 6x11W E14 PL + tela	NombreColg.	SPICA 6x11W PL E14 tela	Número	6
Familia	- LEDS-C4	Fecha	13-01-2012	Posición	Universal
Rendimiento	56.96%	Sist. de Coord.	C-G	Flujo Total	3780.00 lm

Diam=1000mm



Semiplanos C

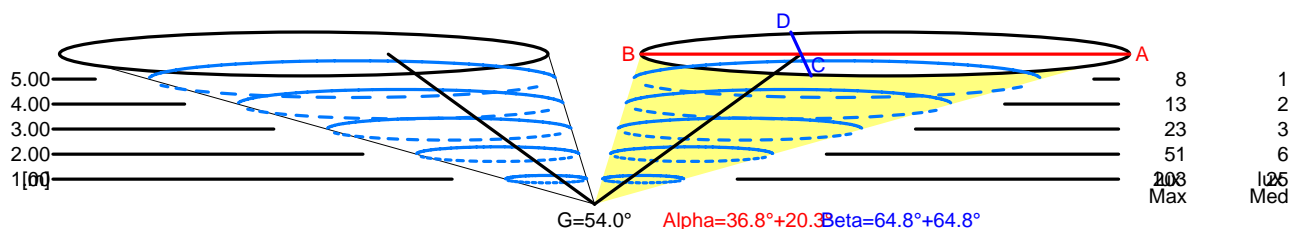
 180.0 ——— 0.0
 270.0 ——— 90.0

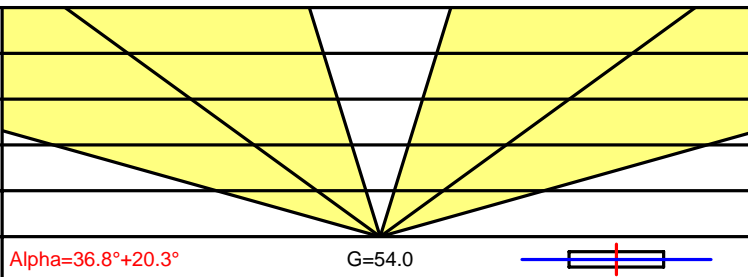

Luminaria		Ensayo		Lámpara	
Código	00-4369-Z6-V7	Código	00-4369-Z6-V7	Código	DLX EL LL 11W827E14
Nombre	Colg SPICA 6x11W E14 PL + tela	NombreColg.	SPICA 6x11W PL E14 tela	Número	6
Familia	- LEDS-C4	Fecha	13-01-2012	Posición	Universal
Rendimiento	56.96%	Sist. de Coorden.	C-G	Flujo Total	3780.00 lm

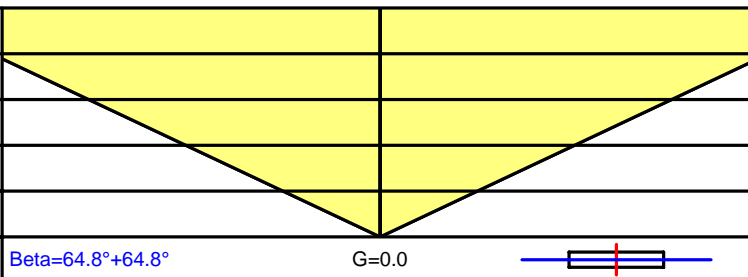
Apertura a 50.00 % de MaxLux

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	2.19	4.38	6.57	8.77	10.96	OC	3.61	7.22	10.83	14.44	18.05
OB	1.07	2.13	3.20	4.27	5.34	OD	3.61	7.22	10.83	14.44	18.05

	Intensidades Luminosas [cd]									
	0	5	15	25	35	45	55	65	75	85
OA	185.71	186.94	172.04	266.27	345.83	385.75	403.66	343.59	192.33	53.34
OB	185.71	186.94	172.04	266.27	345.83	385.75	403.66	343.59	192.33	53.34
OC	185.71	188.03	180.36	252.08	297.35	346.76	375.26	317.82	187.89	48.35
OD	185.71	188.03	180.36	252.08	297.35	346.76	375.26	317.82	187.89	48.35



5.00	16.29	8	1	
4.00	13.03	13	2	
3.00	9.78	23	3	
2.00	6.52	51	6	
1.00	3.26	203	25	
H[m]	D[m]	Max lux	Med lux	

5.00	36.10	8	1	
4.00	28.88	13	2	
3.00	21.66	23	3	
2.00	14.44	51	6	
1.00	7.22	203	25	
H[m]	D[m]	Max lux	Med lux	

Luminaria		Ensayo		Lámpara	
Código	00-4369-Z6-V7	Código	00-4369-Z6-V7	Código	DLX EL LL 11W827E14
Nombre	Colg SPICA 6x11W E14 PL + tela	Nombre/Colg.	SPICA 6x11W PL E14 tela	Número	6
Familia	- LEDS-C4	Fecha	13-01-2012	Posición	Universal
Rendimiento	56.96%	Sist. de Coorden.	C-G	Flujo Total	3780.00 lm

Flujo Total=3780.00 Flujo Luminaria=2152.99

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	0.24	0.32	0.39	0.45	0.51	0.59	0.65	0.69	0.74	0.78	0.86	0.92
RC	7	7	7	7	7	7	7	7	7	7	7	7

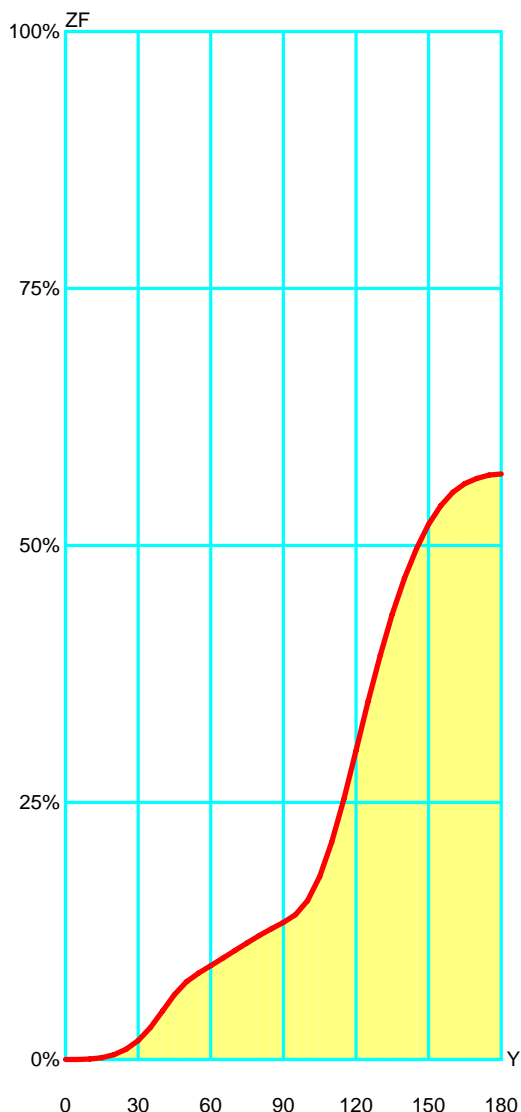
Flujo Zonal por 1000 Lúmenes

Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	0	5	18	47	76	91	106	120	133	155	211	301	393	468	521	552	565	570

Códigos de Flujo C.I.E.

38 68 86 23 57

C.I.E.	7	LOR	56.95728 %
D DIN 5040	D23	ULOR	43.63149 %
F UTE	--	DLOR	13.32580 %
B NBN	BZ 6	UFF	76.60388 %
RN	76.60388 %	DFF	23.39612 %
BLF	1.0	FFR	327.42122 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00 %	0.00 %
5°	0.08	0.08	0.01 %	0.01 %
10°	0.41	0.49	0.07 %	0.09 %
15°	1.26	1.75	0.22 %	0.31 %
20°	2.87	4.62	0.50 %	0.81 %
25°	5.29	9.91	0.93 %	1.74 %
30°	8.49	18.41	1.49 %	3.23 %
35°	12.46	30.87	2.19 %	5.42 %
40°	16.06	46.93	2.82 %	8.24 %
45°	16.32	63.25	2.87 %	11.10 %
50°	12.47	75.72	2.19 %	13.29 %
55°	8.40	84.11	1.47 %	14.77 %
60°	7.11	91.22	1.25 %	16.02 %
65°	7.35	98.57	1.29 %	17.31 %
70°	7.49	106.06	1.32 %	18.62 %
75°	7.36	113.42	1.29 %	19.91 %
80°	7.03	120.45	1.23 %	21.15 %
85°	6.58	127.03	1.15 %	22.30 %
90°	6.23	133.26	1.09 %	23.40 %
95°	7.65	140.91	1.34 %	24.74 %
100°	13.63	154.54	2.39 %	27.13 %
105°	23.45	177.99	4.12 %	31.25 %
110°	33.48	211.47	5.88 %	37.13 %
115°	41.92	253.39	7.36 %	44.49 %
120°	47.13	300.52	8.28 %	52.76 %
125°	47.68	348.21	8.37 %	61.14 %
130°	44.77	392.98	7.86 %	69.00 %
135°	40.18	433.15	7.05 %	76.05 %
140°	34.79	467.94	6.11 %	82.16 %
145°	29.11	497.05	5.11 %	87.27 %
150°	23.55	520.60	4.13 %	91.40 %
155°	18.04	538.64	3.17 %	94.57 %
160°	13.03	551.67	2.29 %	96.86 %
165°	8.50	560.17	1.49 %	98.35 %
170°	5.10	565.28	0.90 %	99.25 %
175°	3.15	568.42	0.55 %	99.80 %
180°	1.15	569.57	0.20 %	100.00 %

Luminaria		Ensayo		Lámpara	
Código	00-4369-Z6-V7	Código	00-4369-Z6-V7	Código	DLX EL LL 11W827E14
Nombre	Colg SPICA 6x11W E14 PL + tela	NombreColg.	SPICA 6x11W PL E14 tela	Número	6
Familia	- LEDS-C4	Fecha	13-01-2012	Posición	Universal
Rendimiento	56.96%	Sist. de Coorden.	C-G	Flujo Total	3780.00 lm

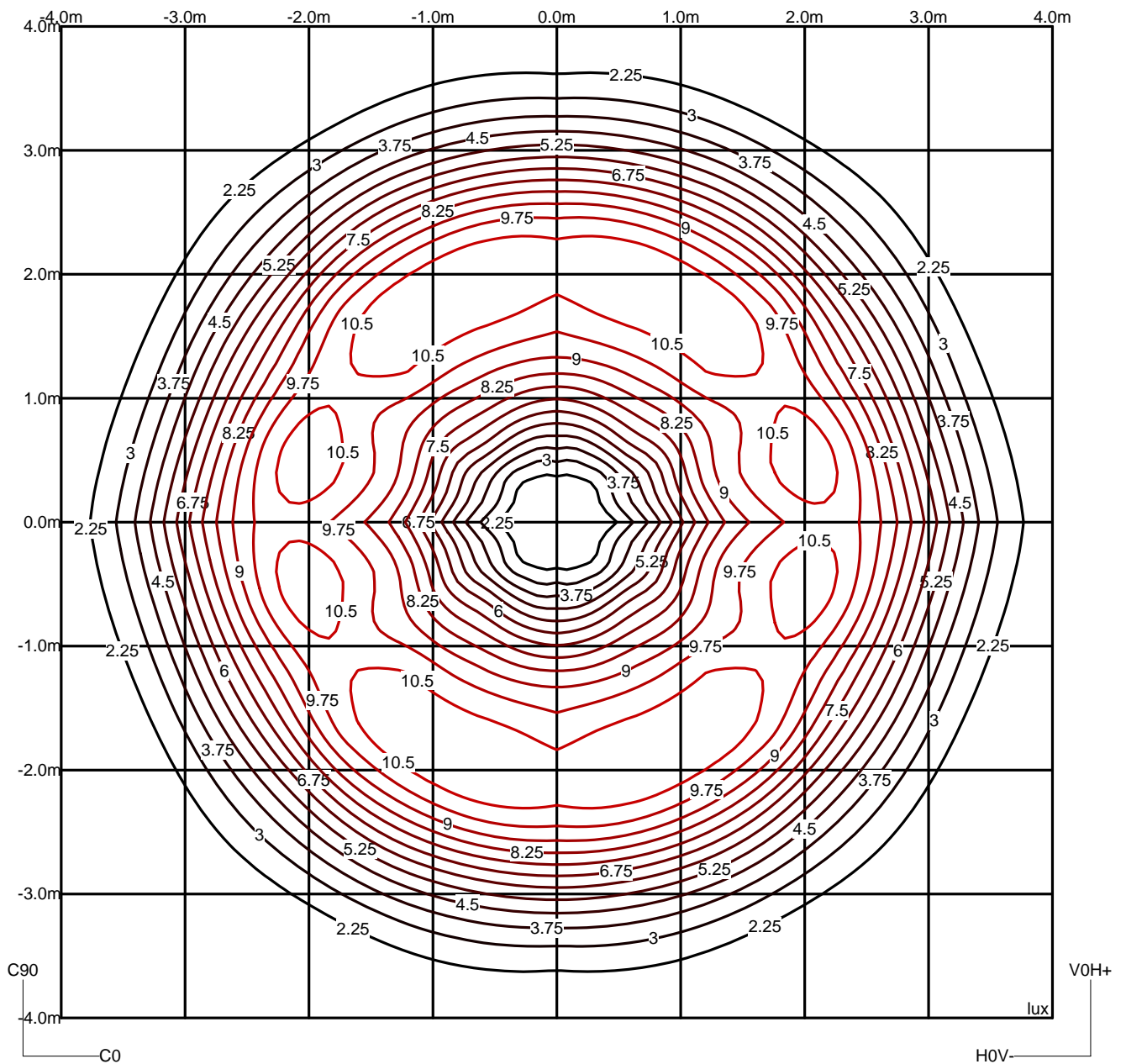
UGR
S = 0.250

Reflectancias										
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	< 0	< 0	< 0	0.4	2.0	< 0	< 0	< 0	0.4	2.0
x=2H y=3H	0.6	1.1	1.7	2.3	3.6	0.4	0.9	1.5	2.1	3.6
x=2H y=4H	1.8	2.3	2.9	3.5	4.6	1.3	1.8	2.4	3.0	4.6
x=2H y=6H	3.2	3.7	4.3	4.8	5.6	2.3	2.9	3.5	4.0	5.6
x=2H y=8H	3.9	4.3	5.0	5.5	6.1	2.9	3.4	4.1	4.5	6.1
x=2H y=12H	4.5	5.0	5.7	6.1	6.6	3.5	3.9	4.6	5.0	6.6
x=4H y=2H	< 0	< 0	0.1	0.7	2.3	< 0	< 0	0.2	0.7	2.3
x=4H y=3H	1.1	1.6	2.3	2.7	4.5	1.3	1.8	2.5	2.9	4.5
x=4H y=4H	2.5	2.9	3.6	4.0	5.7	2.5	2.9	3.7	4.1	5.7
x=4H y=6H	4.0	4.4	5.2	5.5	6.9	3.8	4.2	5.0	5.3	6.9
x=4H y=8H	4.8	5.2	6.0	6.3	7.6	4.5	4.8	5.7	6.0	7.6
x=4H y=12H	5.6	5.9	6.8	7.1	8.2	5.1	5.4	6.3	6.6	8.2
x=8H y=4H	2.9	3.2	4.1	4.4	6.2	3.0	3.4	4.2	4.5	6.2
x=8H y=6H	4.6	4.8	5.8	6.0	7.7	4.6	4.9	5.8	6.0	7.7
x=8H y=8H	5.5	5.7	6.7	6.9	8.5	5.4	5.7	6.6	6.9	8.5
x=8H y=12H	6.5	6.7	7.7	7.9	9.4	6.3	6.5	7.5	7.7	9.4
x=12H y=4H	3.0	3.3	4.2	4.5	6.2	3.1	3.4	4.3	4.6	6.2
x=12H y=6H	4.8	5.0	6.0	6.2	7.9	4.8	5.0	6.0	6.2	7.9
x=12H y=8H	5.7	5.9	6.9	7.1	8.8	5.7	5.9	6.9	7.1	8.8

Luminaria		Ensayo		Lámpara	
Código	00-4369-Z6-V7	Código	00-4369-Z6-V7	Código	DLX EL LL 11W827E14
Nombre	Colg SPICA 6x11W E14 PL + tela	NombreColg.	SPICA 6x11W PL E14 tela	Número	6
Familia	- LEDS-C4	Fecha	13-01-2012	Posición	Universal
Rendimiento	56.96%	Sist. de Coorden.	C-G	Flujo Total	3780.00 lm

Isolux (Suelo)

Posición Luminaria X=0.00m Y=0.00m Z=3.00m



Luminaria	Ensayo	Lámpara
Código 00-4369-Z6-V7	Código 00-4369-Z6-V7	Código DLX EL LL 11W827E14
Nombre Colg SPICA 6x11W E14 PL + tela	NombreColg. SPICA 6x11W PL E14 tela	Número 6
Familia - LEDS-C4	Fecha 13-01-2012	Posición Universal
Rendimiento 56.96%	Sist. de Coorden. C-G	Flujo Total 3780.00 lm

Utilización CIE

Montaje	Directo	114-Norm type Normalizados										Raz. de Susp. 1/3					CIE Estándar						
Techo																							
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	416	374	399	360	356	344	329	280	322	275	307	232	297	202	257	248	219	241	193	208	204	176	164
0.80	456	419	429	396	398	378	368	322	355	312	338	269	325	238	292	282	254	274	227	241	236	208	194
1.00	484	450	448	419	428	401	397	354	377	339	360	297	346	266	318	307	281	298	254	267	261	233	218
1.25	508	479	462	437	455	420	424	385	397	363	379	323	365	292	341	330	307	321	280	292	286	258	242
1.50	526	499	470	449	475	433	444	409	411	381	394	343	379	313	359	348	326	338	300	311	305	277	262
2.00	549	527	479	464	503	448	474	443	429	404	413	371	399	343	383	372	354	363	330	339	333	307	291
2.50	563	545	484	471	520	457	494	467	440	420	425	389	413	365	399	389	373	380	352	358	352	328	312
3.00	573	558	487	476	533	463	509	485	447	430	434	403	422	380	410	401	387	393	367	373	367	344	327
4.00	586	574	489	481	549	469	529	510	457	443	446	421	435	401	425	417	406	410	389	392	387	366	349
5.00	594	584	490	484	560	473	542	526	463	452	453	432	444	415	435	427	418	421	403	405	400	381	364
10.00	611	606	491	488	581	480	570	561	474	468	468	457	462	447	454	449	444	445	435	432	429	414	397
20.00	619	616	491	489	592	483	586	581	479	476	476	470	472	464	464	461	458	459	453	447	445	433	416

Pared

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	195	172	174	154	160	143	126	103	116	95	97	68	84	51	85	72	61	62	46	55	48	37	30
0.80	230	208	199	181	191	167	155	131	139	118	119	88	105	68	102	89	77	79	60	67	60	45	36
1.00	256	234	217	200	214	183	178	153	157	136	137	105	121	83	116	102	90	92	72	77	69	52	41
1.25	281	260	233	217	236	198	201	177	173	153	154	122	138	100	129	116	103	105	85	87	79	58	45
1.50	299	280	244	230	253	209	219	196	186	167	167	137	152	114	139	127	115	116	96	95	87	64	49
2.00	325	308	258	246	276	224	246	224	203	187	186	159	172	136	154	142	131	132	113	106	100	72	55
2.50	342	328	267	257	293	234	266	246	216	201	200	175	187	154	165	154	144	145	127	115	109	78	59
3.00	355	343	274	266	305	241	280	262	225	212	211	188	198	168	173	163	154	154	138	122	116	83	63
4.00	374	364	284	278	324	252	302	287	239	228	226	207	216	189	186	177	169	169	155	134	128	92	69
5.00	388	379	292	287	337	261	318	305	249	240	238	222	228	205	195	188	181	181	168	142	138	99	75
10.00	423	418	315	312	372	284	360	352	277	272	270	260	264	250	222	217	213	213	205	168	165	121	94
20.00	451	448	335	334	400	306	393	388	301	299	297	292	293	285	246	243	241	240	235	192	190	142	113

P.Trab.

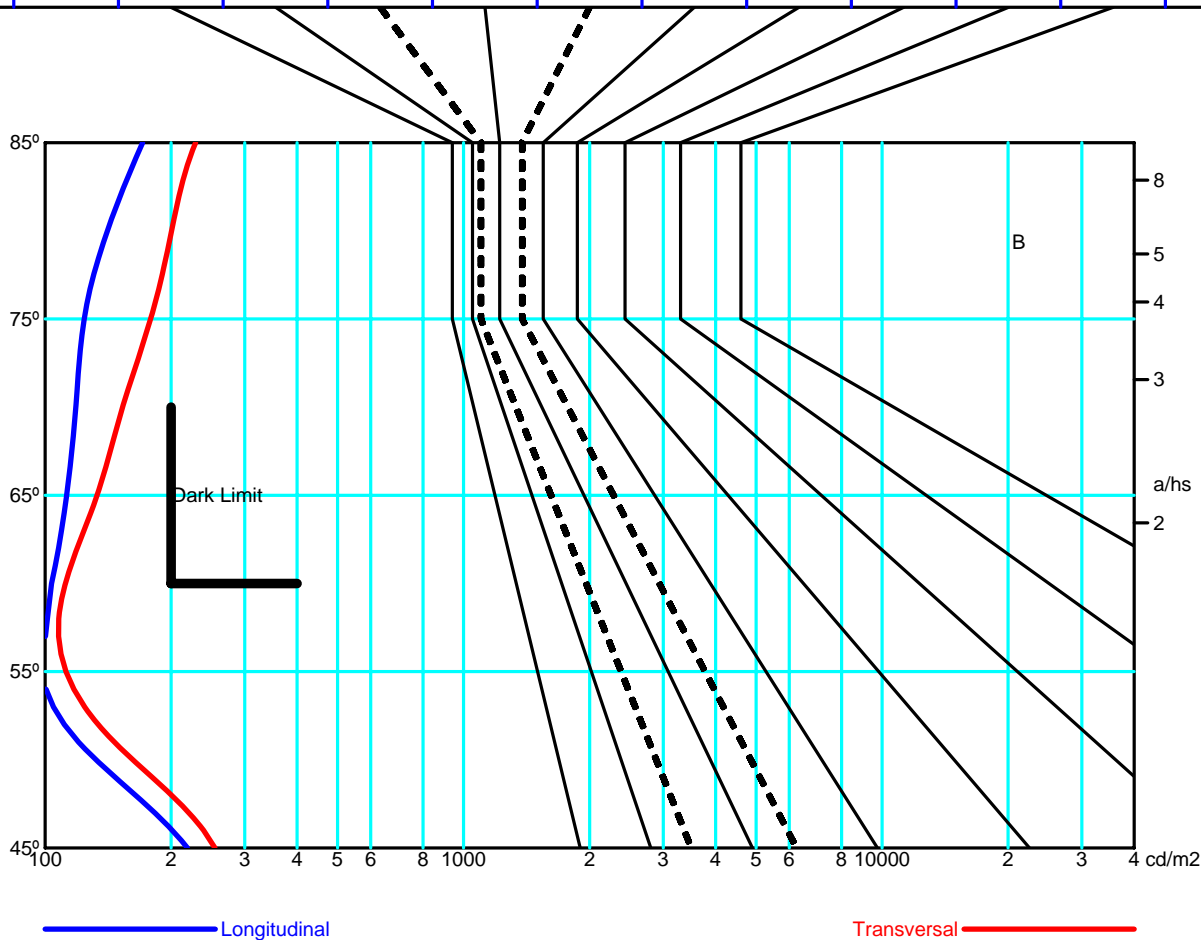
K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000
0.60	218	194	204	182	179	168	137	114	132	111	108	79	91	59	96	79	69	67	52	60	51	39	32
0.80	273	248	252	229	226	210	182	155	173	148	147	111	127	87	126	108	95	95	74	81	71	53	43
1.00	317	291	289	267	263	243	219	190	207	181	180	141	159	113	151	133	118	119	95	98	88	64	52
1.25	360	334	324	303	301	275	257	227	241	214	214	172	193	142	177	159	143	144	118	117	106	76	61
1.50	392	368	350	331	330	299	287	258	267	241	241	199	220	168	197	180	164	165	138	131	121	86	68
2.00	439	418	387	371	372	334	333	305	305	282	282	242	261	210	228	212	196	198	171	155	145	101	79
2.50	471	452	411	397	401	357	366	339	332	310	310	273	291	242	249	234	220	221	196	171	162	111	86
3.00	494	477	428	415	422	374	390	365	351	331	331	297	313	268	265	251	238	239	215	183	175	119	91
4.00	524	510	450	439	450	395	423	402	376	360	359	330	344	304	286	274	263	264	242	200	193	129	99
5.00	543	532	463	455	468	409	444	426	393	379	378	353	364	329	300	290	279	280	261	211	205	136	103
10.00	585	579	492	487	508	438	493	483	428	421	419	404	411	389	331	324	318	318	307	237	233	153	115
20.00	609	605	507	505	530	454	522	516	448	444	443	435	438	426	349	345	342	341	335	253	250	164	122

LM53 SHR C0-C180: 4.011 SHR C90-C270: 3.801 SHR Superficial: 1.060

Luminaria		Ensayo		Lámpara	
Código	00-4369-Z6-V7	Código	00-4369-Z6-V7	Código	DLX EL LL 11W827E14
Nombre	Colg SPICA 6x11W E14 PL + tela	NombreColg.	SPICA 6x11W PL E14 tela	Número	6
Familia	- LEDS-C4	Fecha	13-01-2012	Posición	Universal
Rendimiento	56.96%	Sist. de Coordn.	C-G	Flujo Total	3780.00 lm

		Luminancia Media [cd/m ²]										
		0°	45°	50°	55°	60°	65°	70°	75°	80°	85°	
	0°	254.8	162.0	112.2	111.8	133.1	153.2	178.8	200.6	229.0	---	
	90°	218.9	132.3	98.3	103.7	112.6	118.4	124.0	140.9	171.0	---	

Flujo montado o vista transversal												
		Iluminancia (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



Luminaria		Ensayo		Lámpara	
Código	00-4369-Z6-V7	Código	00-4369-Z6-V7	Código	DLX EL LL 11W827E14
Nombre	Colg SPICA 6x11W E14 PL + tela	NombreColg.	SPICA 6x11W PL E14 tela	Número	6
Familia	- LEDS-C4	Fecha	13-01-2012	Posición	Universal
Rendimiento	56.96%	Sist. de Coorden.	C-G	Flujo Total	3780.00 lm

Luminancia												
G/C	0	30	60	90	120	150	180	210	240	270	300	330
0°	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35	13.35
5°	14.52	18.66	18.59	19.37	18.59	18.66	14.52	18.66	18.59	19.37	18.59	18.66
10°	29.55	36.98	36.47	38.99	36.47	36.98	29.55	36.98	36.47	38.99	36.47	36.98
15°	53.35	62.79	69.26	66.58	69.26	62.79	53.35	62.79	69.26	66.58	69.26	62.79
20°	90.97	99.21	105.94	103.65	105.94	99.21	90.97	99.21	105.94	103.65	105.94	99.21
25°	132.89	140.75	147.25	146.51	147.25	140.75	132.89	140.75	147.25	146.51	147.25	140.75
30°	176.03	182.44	196.88	189.53	196.88	182.44	176.03	182.44	196.88	189.53	196.88	182.44
35°	231.03	235.70	251.84	246.22	251.84	235.70	231.03	235.70	251.84	246.22	251.84	235.70
40°	275.71	255.38	276.36	272.47	276.36	255.38	275.71	255.38	276.36	272.47	276.36	255.38
45°	254.75	217.62	228.76	218.89	228.76	217.62	254.75	217.62	228.76	218.89	228.76	217.62
50°	161.97	138.76	142.32	132.26	142.32	138.76	161.97	138.76	142.32	132.26	142.32	138.76
55°	112.22	102.89	104.07	98.26	104.07	102.89	112.22	102.89	104.07	98.26	104.07	102.89
60°	111.84	104.48	115.22	103.68	115.22	104.48	111.84	104.48	115.22	103.68	115.22	104.48
65°	133.09	112.97	134.44	112.57	134.44	112.97	133.09	112.97	134.44	112.57	134.44	112.97
70°	153.22	120.66	158.21	118.44	158.21	120.66	153.22	120.66	158.21	118.44	158.21	120.66
75°	178.81	131.33	183.20	124.01	183.20	131.33	178.81	131.33	183.20	124.01	183.20	131.33
80°	200.57	149.96	190.64	140.88	190.64	149.96	200.57	149.96	190.64	140.88	190.64	149.96
85°	229.01	182.06	227.34	170.97	227.34	182.06	229.01	182.06	227.34	170.97	227.34	182.06
90°	319.10	269.77	321.03	238.68	321.03	269.77	319.10	269.77	321.03	238.68	321.03	269.77

