

## Luminaria

Código 15-A126-05-F9\_4000K

Nombre SPARK

## Ensayo

Código 15-A126-05-F9\_4000K

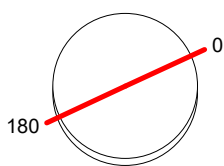
Nombre SPARK

Flujo Luminaria	760 lm	Potencia Luminaria	16.0 W	Eficacia	47.480 lm/W	Eficiencia	100.00%
Flujo Fuente	760 lm	Valor Máximo	252.66 cd/klm	Posición	C=0.00 G=8.00	CG	Rotosimétrico
Luminaria Redonda		Diam.	233 mm	Altura	80 mm		
Área Luminosa Redonda		Diam.	233 mm	Altura	52 mm		
Área Luminosa Horizontal		0.042638 m2		Área Emisión sobre Pl. 180°		0.012116 m2	
Área Emisión sobre Pl. 0°		0.012116 m2		Área Emisión sobre Pl. 270°		0.012116 m2	
Área Emisión sobre Pl. 90°		0.012116 m2		Área de deslumbramiento a 76°		0.022071 m2	
Sist. de Coorden.		CG		Tipo de Simetría		Rotosimétrico	
Fecha		14-09-2022		Máximo Ángulo Gamma		90	
Distancia de Ensayo		0.00		Flujo de Ensayo		760 lm	
Operador		qualitat		Tensión Nominal			
Temperatura				Corriente Nominal			
Humedad				Fotocélula			
Notas							

## Fuentes de luz de la Luminaria

Familia	Código LED	Nombre LED	Flujo [lm]	Pot. [W]	Cant.
C.I.E.	37 66 87 100 100	D DIN 5040	759.68	16.00	1
F UTE	1.00 H	B NBN	A20 BZ 6		

Diam=233mm



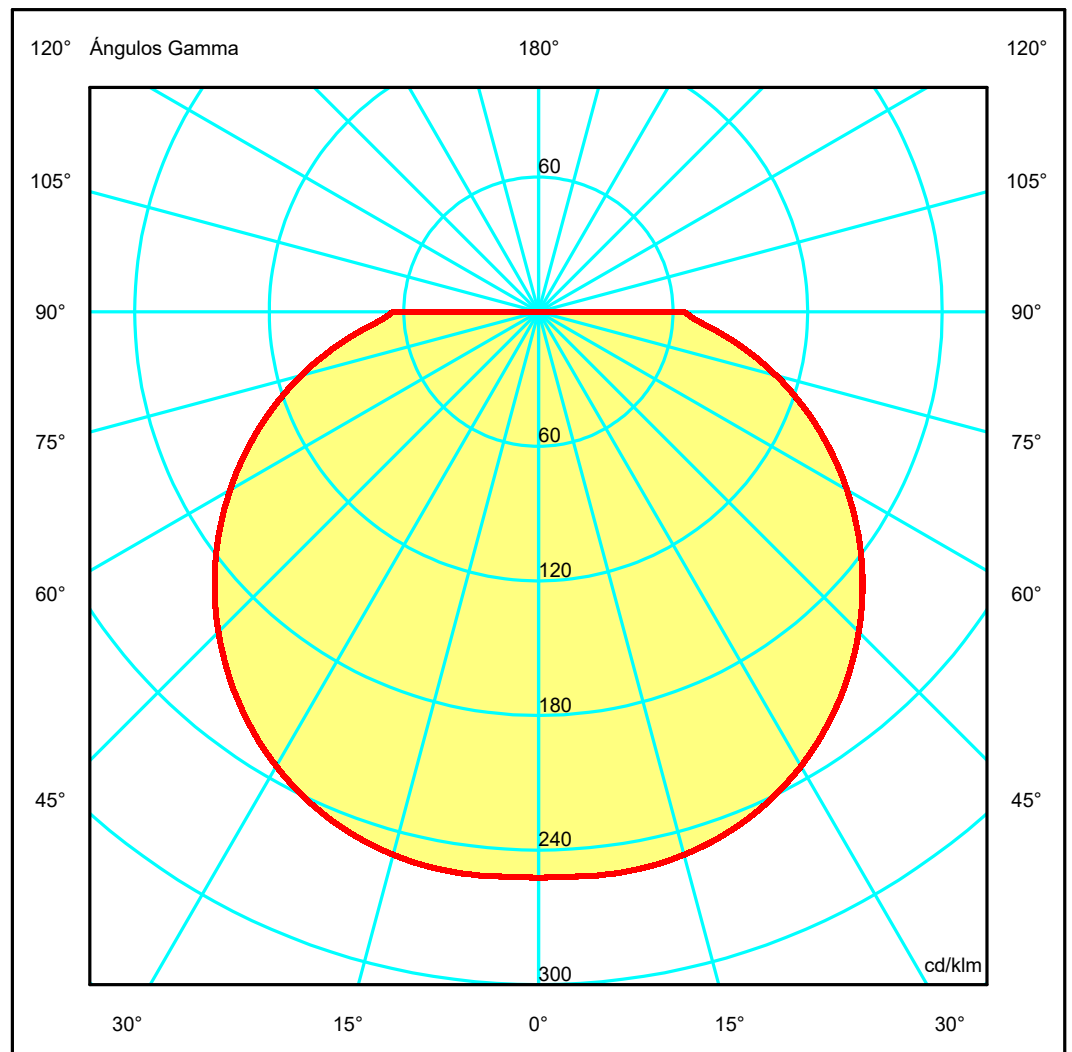
Semiplanos C

180.0 — 0.0

ULOR 0.00 %

DLOR100.00 %

RN 0.00 %



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**Tabla de Intensidad Luminosa cd/klm**
**Tabla 1/1**

	C 0.00	C 0.00
G 0.0	252.24	G 46.0 199.37
G 1.0	252.22	G 47.0 196.72
G 2.0	252.20	G 48.0 194.05
G 3.0	252.25	G 49.0 191.36
G 4.0	252.34	G 50.0 188.56
G 5.0	252.48	G 51.0 185.81
G 6.0	252.60	G 52.0 182.87
G 7.0	252.65	G 53.0 180.05
G 8.0	252.66	G 54.0 177.05
G 9.0	252.58	G 55.0 174.14
G 10.0	252.43	G 56.0 171.09
G 11.0	252.22	G 57.0 168.06
G 12.0	251.90	G 58.0 165.01
G 13.0	251.55	G 59.0 161.87
G 14.0	251.07	G 60.0 158.81
G 15.0	250.58	G 61.0 155.60
G 16.0	249.97	G 62.0 152.50
G 17.0	249.37	G 63.0 149.22
G 18.0	248.63	G 64.0 146.06
G 19.0	247.85	G 65.0 142.79
G 20.0	246.93	G 66.0 139.55
G 21.0	245.94	G 67.0 136.27
G 22.0	244.93	G 68.0 132.96
G 23.0	243.78	G 69.0 129.69
G 24.0	242.62	G 70.0 126.29
G 25.0	241.34	G 71.0 123.01
G 26.0	240.02	G 72.0 119.62
G 27.0	238.55	G 73.0 116.32
G 28.0	237.07	G 74.0 112.93
G 29.0	235.50	G 75.0 109.58
G 30.0	233.88	G 76.0 106.20
G 31.0	232.21	G 77.0 102.79
G 32.0	230.40	G 78.0 99.42
G 33.0	228.64	G 79.0 96.01
G 34.0	226.66	G 80.0 92.68
G 35.0	224.75	G 81.0 89.29
G 36.0	222.67	G 82.0 85.98
G 37.0	220.61	G 83.0 82.62
G 38.0	218.45	G 84.0 79.32
G 39.0	216.22	G 85.0 76.10
G 40.0	213.98	G 86.0 73.09
G 41.0	211.60	G 87.0 70.47
G 42.0	209.27	G 88.0 68.25
G 43.0	206.83	G 89.0 66.43
G 44.0	204.46	G 90.0 64.98
G 45.0	201.89	

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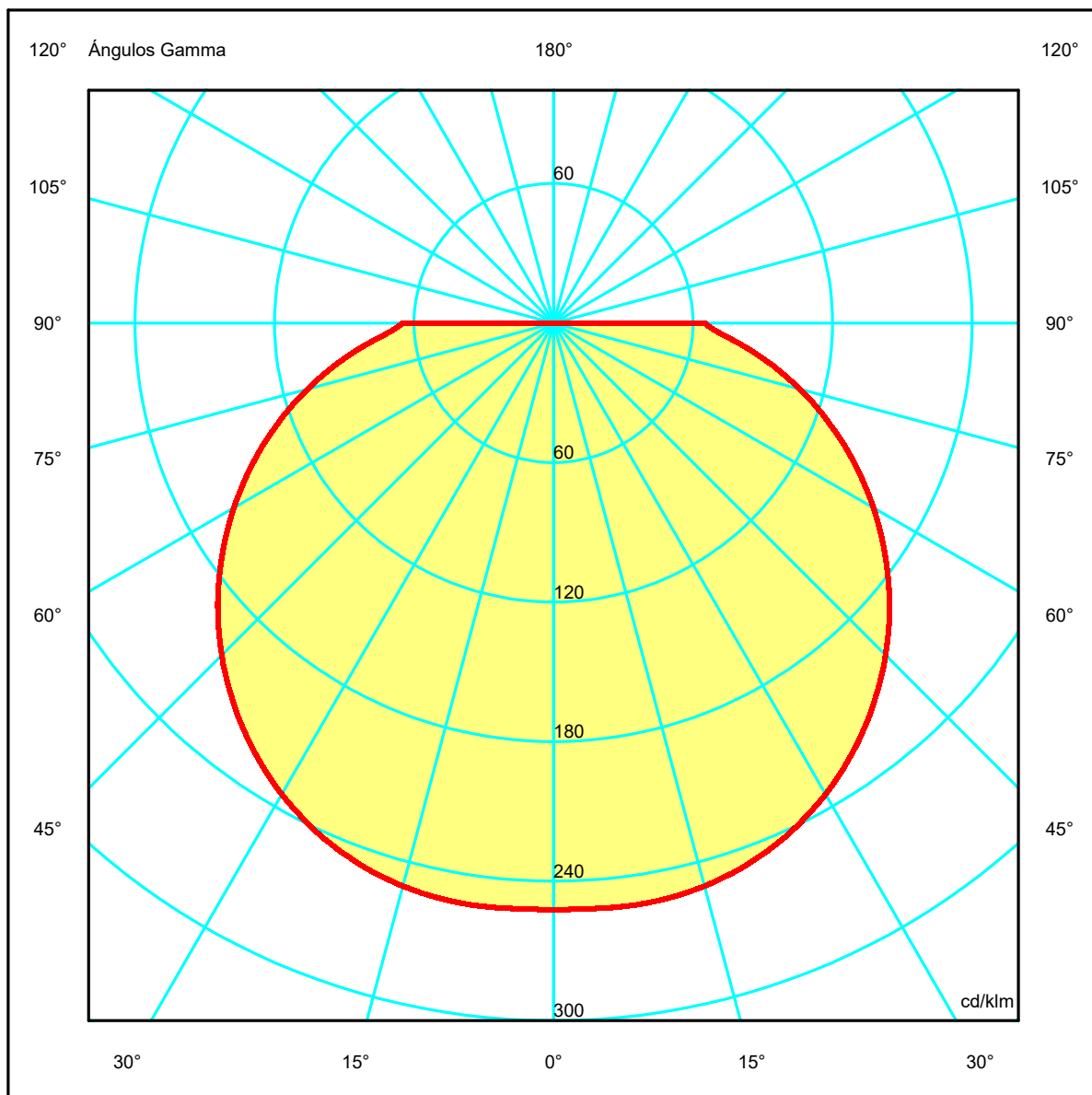
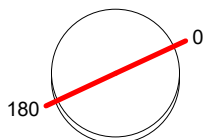
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Diam=233mm

Semiplanos C

180.0  0.0



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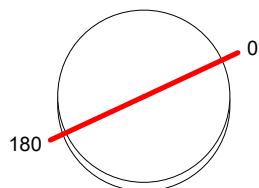
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Nombre SPARK

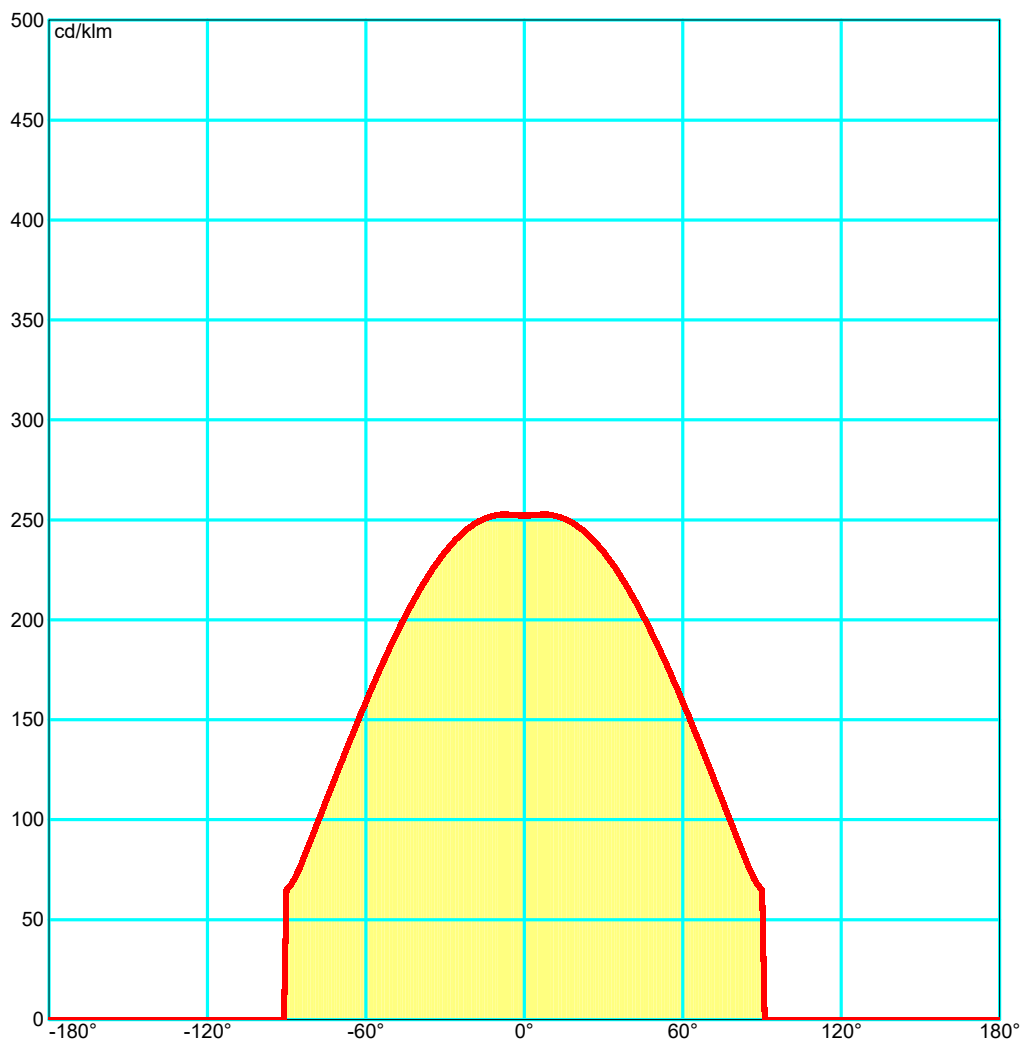
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Semiplanos C



180.0 ————— 0.0



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**UGR**  
S = 0.250

Reflectancias										
Techo/Cavidad	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Paredes	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
PDT	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Dimensiones del Local						Vista Longitudinal				
	Mista Lateral									
x=2H y=2H	17.2	18.7	17.5	19.0	19.2	17.2	18.7	17.5	19.0	19.2
x=2H y=3H	19.2	20.6	19.6	20.9	21.2	19.2	20.6	19.6	20.9	21.2
x=2H y=4H	20.2	21.5	20.6	21.8	22.1	20.2	21.5	20.6	21.8	22.1
x=2H y=6H	21.2	22.4	21.5	22.7	23.0	21.2	22.4	21.5	22.7	23.0
x=2H y=8H	21.6	22.8	22.0	23.1	23.4	21.6	22.8	22.0	23.1	23.4
x=2H y=12H	22.0	23.1	22.4	23.5	23.8	22.0	23.1	22.4	23.5	23.8
x=4H y=2H	18.0	19.3	18.4	19.6	19.9	18.0	19.3	18.4	19.6	19.9
x=4H y=3H	20.3	21.4	20.7	21.8	22.1	20.3	21.4	20.7	21.8	22.1
x=4H y=4H	21.4	22.4	21.8	22.8	23.2	21.4	22.4	21.8	22.8	23.2
x=4H y=6H	22.5	23.4	22.9	23.8	24.2	22.5	23.4	22.9	23.8	24.2
x=4H y=8H	23.0	23.9	23.5	24.3	24.7	23.0	23.9	23.5	24.3	24.7
x=4H y=12H	23.5	24.3	24.0	24.7	25.2	23.5	24.3	24.0	24.7	25.2
x=8H y=4H	21.9	22.7	22.3	23.2	23.6	21.9	22.7	22.3	23.2	23.6
x=8H y=6H	23.2	23.9	23.7	24.4	24.8	23.2	23.9	23.7	24.4	24.8
x=8H y=8H	23.9	24.5	24.3	25.0	25.5	23.9	24.5	24.3	25.0	25.5
x=8H y=12H	24.5	25.1	25.0	25.6	26.1	24.5	25.1	25.0	25.6	26.1
x=12H y=4H	22.0	22.8	22.4	23.2	23.6	22.0	22.8	22.4	23.2	23.6
x=12H y=6H	23.4	24.0	23.8	24.5	25.0	23.4	24.0	23.8	24.5	25.0
x=12H y=8H	24.1	24.7	24.6	25.2	25.7	24.1	24.7	24.6	25.2	25.7

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Flujo Fuente	760 lm	Valor Máximo	252.66 cd/klm	Posición	C=0.00 G=8.00	CG	Rotosimétrico

Flujo Total=759.68 Flujo Luminaria=759.68

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	0.31	0.38	0.44	0.50	0.58	0.64	0.69	0.74	0.78	0.87	0.93
RC	7	7	7	7	7	7	7	7	7	7	7	7

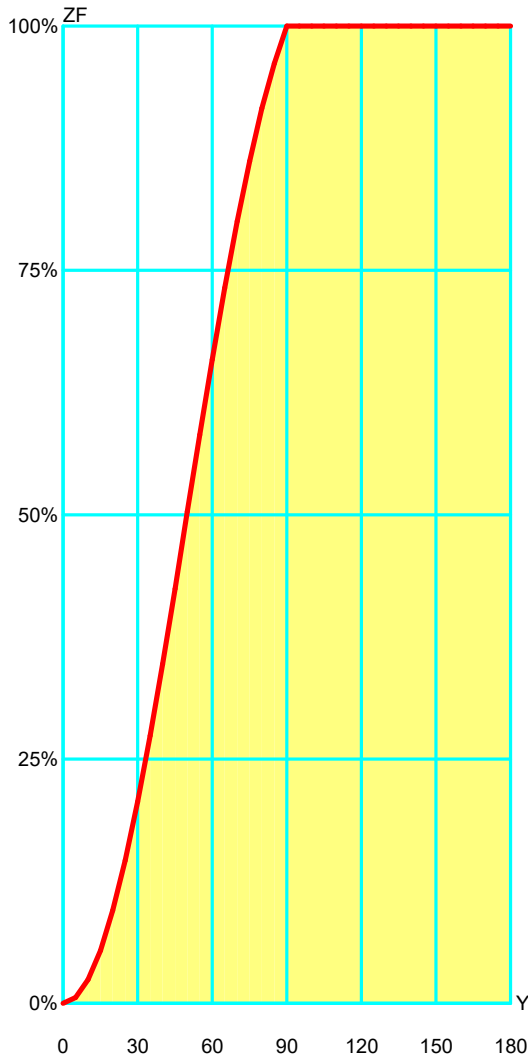
Flujo Zonal por 1000 Lúmenes

Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	24	95	206	347	503	659	800	916	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Códigos de Flujo C.I.E.

37 66 87 100 100

C.I.E.	7	LOR	100.00000 %
D DIN 5040	A20	ULOR	0.00000 %
F UTE	1.00 H	DLOR	100.00000 %
B NBN	BZ 6	UFF	0.00000 %
RN	0.00000 %	DFF	100.00000 %
BLF	1.0	FFR	0.00000 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	6.03	6.03	0.60%	0.60 %
10°	18.07	24.10	1.81%	2.41 %
15°	29.85	53.95	2.98%	5.40 %
20°	41.01	94.97	4.10%	9.50 %
25°	51.22	146.19	5.12%	14.62 %
30°	60.15	206.34	6.01%	20.63 %
35°	67.55	273.88	6.75%	27.39 %
40°	73.20	347.08	7.32%	34.71 %
45°	77.00	424.08	7.70%	42.41 %
50°	78.91	502.99	7.89%	50.30 %
55°	78.86	581.85	7.89%	58.19 %
60°	76.94	658.80	7.69%	65.88 %
65°	73.31	732.10	7.33%	73.21 %
70°	68.14	800.24	6.81%	80.02 %
75°	61.65	861.89	6.16%	86.19 %
80°	54.09	915.99	5.41%	91.60 %
85°	45.81	961.80	4.58%	96.18 %
90°	38.20	1000.00	3.82%	100.00 %
95°	0.00	1000.00	0.00%	100.00 %
100°	0.00	1000.00	0.00%	100.00 %
105°	0.00	1000.00	0.00%	100.00 %
110°	0.00	1000.00	0.00%	100.00 %
115°	0.00	1000.00	0.00%	100.00 %
120°	0.00	1000.00	0.00%	100.00 %
125°	0.00	1000.00	0.00%	100.00 %
130°	0.00	1000.00	0.00%	100.00 %
135°	0.00	1000.00	0.00%	100.00 %
140°	0.00	1000.00	0.00%	100.00 %
145°	0.00	1000.00	0.00%	100.00 %
150°	0.00	1000.00	0.00%	100.00 %
155°	0.00	1000.00	0.00%	100.00 %
160°	0.00	1000.00	0.00%	100.00 %
165°	0.00	1000.00	0.00%	100.00 %
170°	0.00	1000.00	0.00%	100.00 %
175°	0.00	1000.00	0.00%	100.00 %
180°	0.00	1000.00	0.00%	100.00 %

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## Utilización CIE

Montaje	Directo	Normalización										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	227	204	184	166	194	159	114	97	93	80	49	37	17	11	74	39	35	14	11	33	12	10	0
0.80	264	242	200	185	230	176	144	126	108	95	60	47	23	17	89	50	45	19	16	42	17	15	0
1.00	289	269	206	192	256	184	167	149	117	105	67	55	28	22	99	57	52	24	21	50	21	19	0
1.25	310	292	206	195	278	187	191	173	123	113	74	63	35	28	106	64	60	30	26	57	27	24	0
1.50	325	309	203	194	294	187	210	193	127	118	79	69	40	33	111	70	66	36	32	63	32	29	0
2.00	344	330	194	187	315	181	238	223	129	122	86	77	49	42	115	77	74	45	41	70	41	38	0
2.50	355	344	185	180	328	175	258	244	129	123	90	82	56	49	117	82	79	52	48	76	48	45	0
3.00	363	353	178	174	337	169	274	261	128	123	93	86	62	55	118	86	83	57	54	80	53	50	0
4.00	373	365	167	165	349	161	295	284	127	123	97	92	70	64	118	91	88	65	62	85	62	59	0
5.00	379	372	160	158	357	154	309	300	126	123	99	95	75	70	118	94	92	71	68	89	68	65	0
10.00	389	386	141	140	371	137	342	336	120	119	104	102	89	86	115	100	99	86	84	96	82	80	0
20.00	394	392	127	127	376	125	360	357	116	115	106	105	97	96	112	103	102	94	93	100	92	89	0

## 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	499	486	446	436	480	432	378	370	348	342	292	287	251	249	339	288	286	250	249	285	249	249	229
0.80	572	559	499	490	549	484	447	438	404	397	346	341	303	301	393	341	339	301	300	337	300	299	276
1.00	625	612	535	527	600	520	500	490	444	438	388	382	344	341	432	381	379	342	340	377	340	338	312
1.25	676	663	568	561	648	553	553	542	483	477	429	422	385	382	469	421	419	382	380	415	380	378	349
1.50	715	703	592	586	686	578	596	585	513	507	461	455	419	415	499	453	451	415	413	447	412	410	378
2.00	766	756	621	616	736	607	655	644	552	547	505	500	466	462	537	496	494	461	459	489	457	454	419
2.50	802	793	641	637	771	628	699	688	579	575	538	532	502	497	564	528	526	496	493	520	491	487	449
3.00	829	821	656	653	798	644	732	722	600	596	562	557	529	525	585	552	550	523	520	543	517	512	472
4.00	874	868	684	682	842	673	786	777	637	634	604	600	575	571	622	594	592	568	565	584	561	555	512
5.00	909	903	708	706	876	697	827	820	666	664	638	634	611	608	652	626	625	603	601	617	596	589	544
10.00	1000	1000	781	780	974	772	943	939	753	752	735	732	717	714	739	723	722	707	706	712	698	690	640
20.00	1000	1000	848	847	1000	840	1000	1000	829	828	817	816	807	805	815	805	805	796	795	794	785	775	723

## 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	543	530	507	497	522	490	398	390	383	377	311	306	258	256	373	306	304	257	256	303	256	255	237
0.80	646	631	595	584	618	575	492	481	469	461	393	387	336	333	455	386	384	333	332	381	332	330	310
1.00	727	712	663	653	695	642	570	558	539	531	463	456	404	400	522	454	451	400	399	448	398	396	375
1.25	805	790	726	717	769	704	649	636	608	600	533	525	474	469	588	523	520	469	467	514	466	463	442
1.50	865	850	773	764	826	751	711	697	661	653	589	580	530	525	639	577	573	524	522	567	520	516	496
2.00	953	939	840	833	911	818	807	793	740	733	675	667	620	614	717	661	658	613	609	649	606	601	581
2.50	1000	999	883	877	967	862	874	861	793	787	735	727	684	677	769	719	716	674	671	705	666	659	641
3.00	1000	1000	913	908	1000	893	924	911	832	826	778	771	731	725	807	761	758	720	717	747	711	703	685
4.00	1000	1000	951	947	1000	932	990	978	881	877	836	829	795	788	856	817	815	782	778	801	770	760	744
5.00	1000	1000	974	971	1000	956	1000	1000	913	909	873	867	836	831	888	854	851	822	819	836	809	798	782
10.00	1000	1000	1000	1000	1000	1000	1000	1000	983	981	959	955	935	931	958	937	936	917	915	918	901	886	872
20.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	996	994	1000	988	988	976	975	968	958	940	928

LM53 SHR C0-C180: 1.375 SHR C90-C270: 1.375 SHR Superficial: 1.509

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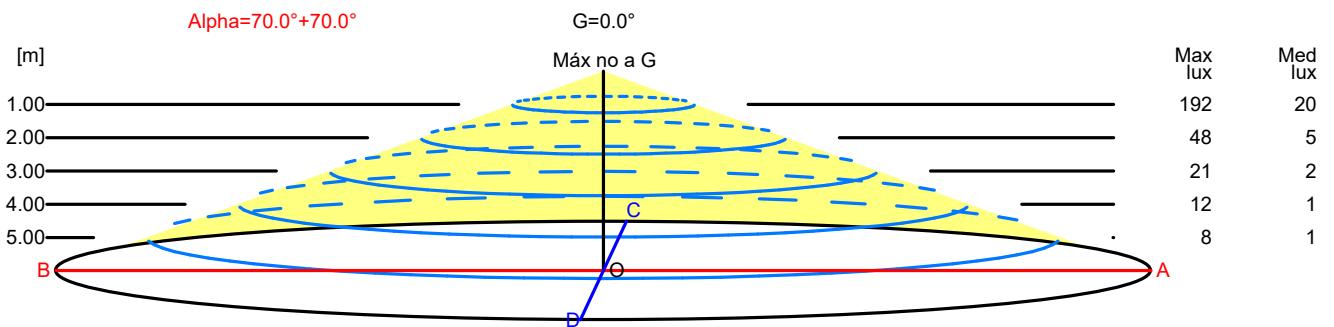
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Flujo Fuente	760 lm	Valor Máximo	252.66 cd/klm	Posición	C=0.00 G=8.00	CG	Rotosimétrico

## Apertura a 50.00 % de Max Intensidad

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	2.75	5.49	8.24	10.98	13.73	OC	2.75	5.49	8.24	10.98	13.73
OB	2.75	5.49	8.24	10.98	13.73	OD	2.75	5.49	8.24	10.98	13.73

	Intensidades Luminosas [ cd/klm]									
	0	5	15	25	35	45	55	65	75	85
OA	191.62	191.80	190.36	183.34	170.74	153.37	132.29	108.48	83.25	57.81
OB	191.62	191.80	190.36	183.34	170.74	153.37	132.29	108.48	83.25	57.81
OC	191.62	191.80	190.36	183.34	170.74	153.37	132.29	108.48	83.25	57.81
OD	191.62	191.80	190.36	183.34	170.74	153.37	132.29	108.48	83.25	57.81



H[m]	D[m]	Max lux	Med lux	Alpha=70.0°+70.0°	G=0.0 Máx no a G
1.00	5.49	192	20		
2.00	10.98	48	5		
3.00	16.48	21	2		
4.00	21.97	12	1		
5.00	27.46	8	1		



## Luminaria

Código 15-A126-05-F9\_4000K

Nombre SPARK

## Ensayo

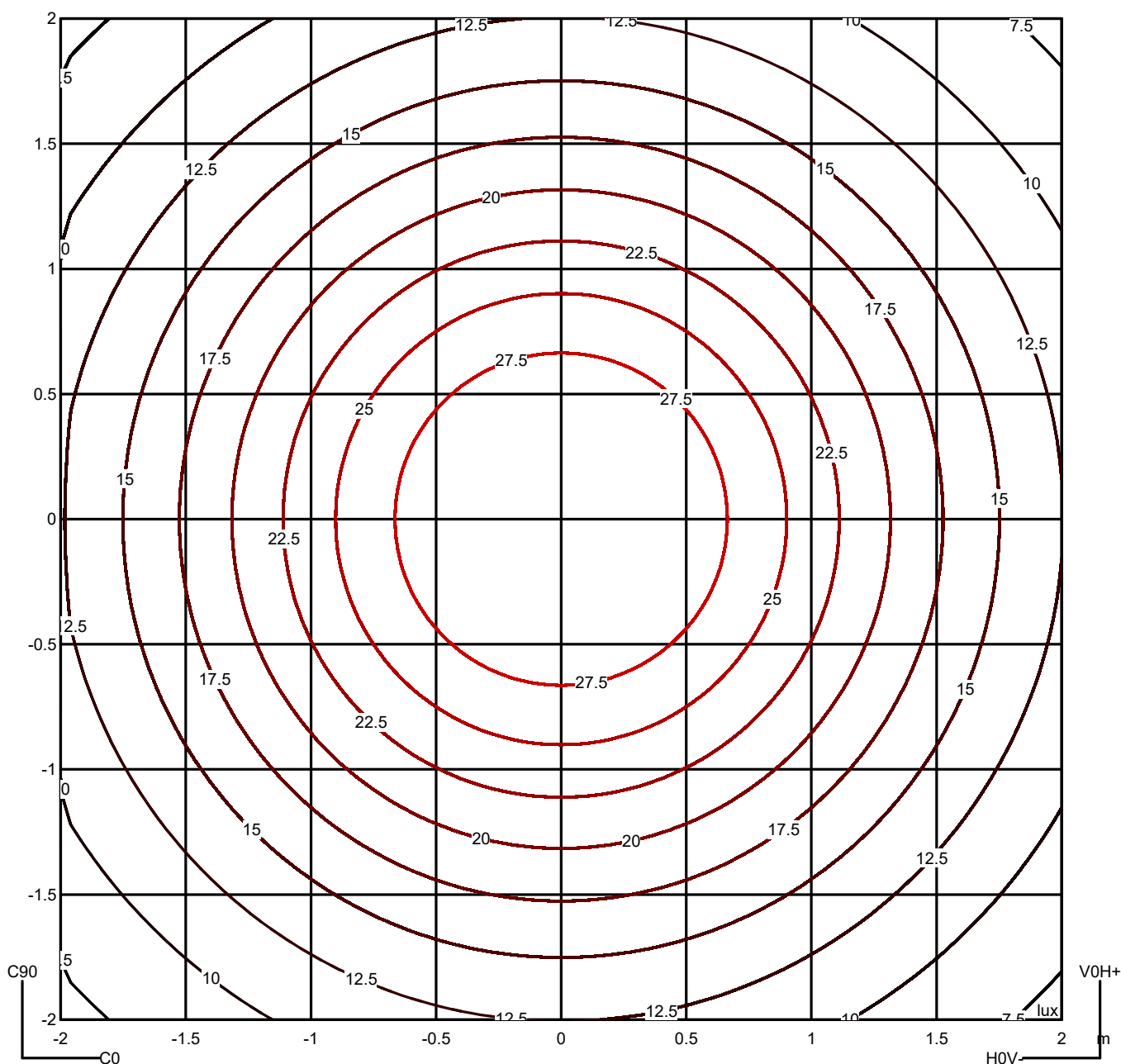
Código 15-A126-05-F9\_4000K

Nombre SPARK

Flujo Luminaria	760 lm	Potencia Luminaria	16.0 W	Eficacia	47.480 lm/W	Eficiencia	100.00%
Flujo Fuente	760 lm	Valor Máximo	252.66 cd/klm	Posición	C=0.00 G=8.00	CG	Rotosimétrico

Isolux (Suelo)

Posición Luminaria X=0.00m Y=0.00m Z=2.50m



**Luminaria**

Código 15-A126-05-F9\_4000K

Nombre SPARK

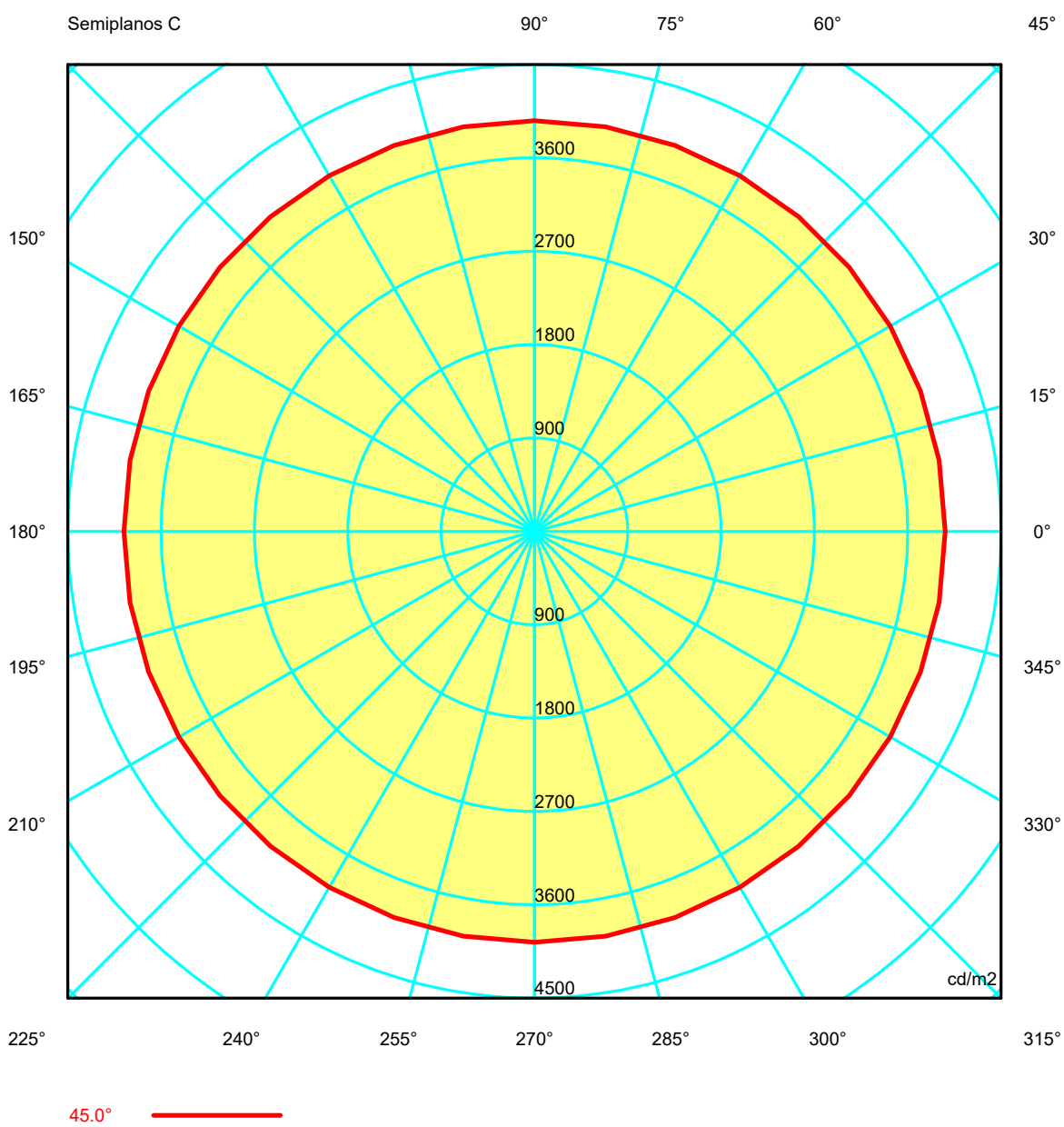
**Ensayo**

Código 15-A126-05-F9\_4000K

Nombre SPARK

Flujo Luminaria	760 lm	Potencia Luminaria	16.0 W	Eficacia	47.480 lm/W	Eficiencia	100.00%
Flujo Fuente	760 lm	Valor Máximo	252.66 cd/klm	Posición	C=0.00 G=8.00	CG	Rotosimétrico

Luminancia



**Luminaria**

Código 15-A126-05-F9\_4000K

Nombre SPARK

**Ensayo**

Código 15-A126-05-F9\_4000K

Nombre SPARK

Flujo Luminaria	760 lm	Potencia Luminaria	16.0 W	Eficacia	47.480 lm/W	Eficiencia	100.00%						
Flujo Fuente	760 lm	Valor Máximo	252.66 cd/klm	Posición	C=0.00 G=8.00	CG	Rotosimétrico						
Luminance cd/m2													
Tabla 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	4494.10	4494.10	4494.10	4494.10	4494.10	4494.10	4494.10	4494.10	4494.10	4494.10	4494.10	4494.10	4494.10
G 5.0	4406.03	4406.03	4406.03	4406.03	4406.03	4406.03	4406.03	4406.03	4406.03	4406.03	4406.03	4406.03	4406.03
G 10.0	4348.91	4348.91	4348.91	4348.91	4348.91	4348.91	4348.91	4348.91	4348.91	4348.91	4348.91	4348.91	4348.91
G 15.0	4294.96	4294.96	4294.96	4294.96	4294.96	4294.96	4294.96	4294.96	4294.96	4294.96	4294.96	4294.96	4294.96
G 20.0	4243.06	4243.06	4243.06	4243.06	4243.06	4243.06	4243.06	4243.06	4243.06	4243.06	4243.06	4243.06	4243.06
G 25.0	4189.26	4189.26	4189.26	4189.26	4189.26	4189.26	4189.26	4189.26	4189.26	4189.26	4189.26	4189.26	4189.26
G 30.0	4133.45	4133.45	4133.45	4133.45	4133.45	4133.45	4133.45	4133.45	4133.45	4133.45	4133.45	4133.45	4133.45
G 35.0	4077.08	4077.08	4077.08	4077.08	4077.08	4077.08	4077.08	4077.08	4077.08	4077.08	4077.08	4077.08	4077.08
G 40.0	4018.56	4018.56	4018.56	4018.56	4018.56	4018.56	4018.56	4018.56	4018.56	4018.56	4018.56	4018.56	4018.56
G 45.0	3961.24	3961.24	3961.24	3961.24	3961.24	3961.24	3961.24	3961.24	3961.24	3961.24	3961.24	3961.24	3961.24
G 50.0	3904.33	3904.33	3904.33	3904.33	3904.33	3904.33	3904.33	3904.33	3904.33	3904.33	3904.33	3904.33	3904.33
G 55.0	3847.77	3847.77	3847.77	3847.77	3847.77	3847.77	3847.77	3847.77	3847.77	3847.77	3847.77	3847.77	3847.77
G 60.0	3792.38	3792.38	3792.38	3792.38	3792.38	3792.38	3792.38	3792.38	3792.38	3792.38	3792.38	3792.38	3792.38
G 65.0	3740.51	3740.51	3740.51	3740.51	3740.51	3740.51	3740.51	3740.51	3740.51	3740.51	3740.51	3740.51	3740.51
G 70.0	3694.60	3694.60	3694.60	3694.60	3694.60	3694.60	3694.60	3694.60	3694.60	3694.60	3694.60	3694.60	3694.60
G 75.0	3660.93	3660.93	3660.93	3660.93	3660.93	3660.93	3660.93	3660.93	3660.93	3660.93	3660.93	3660.93	3660.93
G 80.0	3641.36	3641.36	3641.36	3641.36	3641.36	3641.36	3641.36	3641.36	3641.36	3641.36	3641.36	3641.36	3641.36
G 85.0	3662.22	3662.22	3662.22	3662.22	3662.22	3662.22	3662.22	3662.22	3662.22	3662.22	3662.22	3662.22	3662.22
G 90.0	4074.27	4074.27	4074.27	4074.27	4074.27	4074.27	4074.27	4074.27	4074.27	4074.27	4074.27	4074.27	4074.27

**Luminaria**

Código 15-A126-05-F9\_4000K  
Nombre SPARK

**Ensayo**

Código 15-A126-05-F9\_4000K  
Nombre SPARK

Flujo Luminaria	760 lm	Potencia Luminaria	16.0 W	Eficacia	47.480 lm/W	Eficiencia	100.00%
Flujo Fuente	760 lm	Valor Máximo	252.66 cd/klm	Posición	C=0.00 G=8.00	CG	Rotosimétrico

**Luminance cd/m2 Tabla 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	4494.10	4494.10	4494.10	4494.10	4494.10	4494.10	4494.10	4494.10	4494.10	4494.10	4494.10	4494.10	4494.10
G 5.0	4406.03	4406.03	4406.03	4406.03	4406.03	4406.03	4406.03	4406.03	4406.03	4406.03	4406.03	4406.03	4406.03
G 10.0	4348.91	4348.91	4348.91	4348.91	4348.91	4348.91	4348.91	4348.91	4348.91	4348.91	4348.91	4348.91	4348.91
G 15.0	4294.96	4294.96	4294.96	4294.96	4294.96	4294.96	4294.96	4294.96	4294.96	4294.96	4294.96	4294.96	4294.96
G 20.0	4243.06	4243.06	4243.06	4243.06	4243.06	4243.06	4243.06	4243.06	4243.06	4243.06	4243.06	4243.06	4243.06
G 25.0	4189.26	4189.26	4189.26	4189.26	4189.26	4189.26	4189.26	4189.26	4189.26	4189.26	4189.26	4189.26	4189.26
G 30.0	4133.45	4133.45	4133.45	4133.45	4133.45	4133.45	4133.45	4133.45	4133.45	4133.45	4133.45	4133.45	4133.45
G 35.0	4077.08	4077.08	4077.08	4077.08	4077.08	4077.08	4077.08	4077.08	4077.08	4077.08	4077.08	4077.08	4077.08
G 40.0	4018.56	4018.56	4018.56	4018.56	4018.56	4018.56	4018.56	4018.56	4018.56	4018.56	4018.56	4018.56	4018.56
G 45.0	3961.24	3961.24	3961.24	3961.24	3961.24	3961.24	3961.24	3961.24	3961.24	3961.24	3961.24	3961.24	3961.24
G 50.0	3904.33	3904.33	3904.33	3904.33	3904.33	3904.33	3904.33	3904.33	3904.33	3904.33	3904.33	3904.33	3904.33
G 55.0	3847.77	3847.77	3847.77	3847.77	3847.77	3847.77	3847.77	3847.77	3847.77	3847.77	3847.77	3847.77	3847.77
G 60.0	3792.38	3792.38	3792.38	3792.38	3792.38	3792.38	3792.38	3792.38	3792.38	3792.38	3792.38	3792.38	3792.38
G 65.0	3740.51	3740.51	3740.51	3740.51	3740.51	3740.51	3740.51	3740.51	3740.51	3740.51	3740.51	3740.51	3740.51
G 70.0	3694.60	3694.60	3694.60	3694.60	3694.60	3694.60	3694.60	3694.60	3694.60	3694.60	3694.60	3694.60	3694.60
G 75.0	3660.93	3660.93	3660.93	3660.93	3660.93	3660.93	3660.93	3660.93	3660.93	3660.93	3660.93	3660.93	3660.93
G 80.0	3641.36	3641.36	3641.36	3641.36	3641.36	3641.36	3641.36	3641.36	3641.36	3641.36	3641.36	3641.36	3641.36
G 85.0	3662.22	3662.22	3662.22	3662.22	3662.22	3662.22	3662.22	3662.22	3662.22	3662.22	3662.22	3662.22	3662.22
G 90.0	4074.27	4074.27	4074.27	4074.27	4074.27	4074.27	4074.27	4074.27	4074.27	4074.27	4074.27	4074.27	4074.27

**Luminaria**

Código 15-A126-05-F9\_4000K

Nombre SPARK

**Ensayo**

Código 15-A126-05-F9\_4000K

Nombre SPARK

Flujo Luminaria	760 lm	Potencia Luminaria	16.0 W	Eficacia	47.480 lm/W	Eficiencia	100.00%
Flujo Fuente	760 lm	Valor Máximo	252.66 cd/klm	Posición	C=0.00 G=8.00	CG	Rotosimétrico

**Luminance cd/m2 Tabla 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	4494.10	4494.10	4494.10	4494.10	4494.10	4494.10	4494.10	4494.10	4494.10	4494.10
G 5.0	4406.03	4406.03	4406.03	4406.03	4406.03	4406.03	4406.03	4406.03	4406.03	4406.03
G 10.0	4348.91	4348.91	4348.91	4348.91	4348.91	4348.91	4348.91	4348.91	4348.91	4348.91
G 15.0	4294.96	4294.96	4294.96	4294.96	4294.96	4294.96	4294.96	4294.96	4294.96	4294.96
G 20.0	4243.06	4243.06	4243.06	4243.06	4243.06	4243.06	4243.06	4243.06	4243.06	4243.06
G 25.0	4189.26	4189.26	4189.26	4189.26	4189.26	4189.26	4189.26	4189.26	4189.26	4189.26
G 30.0	4133.45	4133.45	4133.45	4133.45	4133.45	4133.45	4133.45	4133.45	4133.45	4133.45
G 35.0	4077.08	4077.08	4077.08	4077.08	4077.08	4077.08	4077.08	4077.08	4077.08	4077.08
G 40.0	4018.56	4018.56	4018.56	4018.56	4018.56	4018.56	4018.56	4018.56	4018.56	4018.56
G 45.0	3961.24	3961.24	3961.24	3961.24	3961.24	3961.24	3961.24	3961.24	3961.24	3961.24
G 50.0	3904.33	3904.33	3904.33	3904.33	3904.33	3904.33	3904.33	3904.33	3904.33	3904.33
G 55.0	3847.77	3847.77	3847.77	3847.77	3847.77	3847.77	3847.77	3847.77	3847.77	3847.77
G 60.0	3792.38	3792.38	3792.38	3792.38	3792.38	3792.38	3792.38	3792.38	3792.38	3792.38
G 65.0	3740.51	3740.51	3740.51	3740.51	3740.51	3740.51	3740.51	3740.51	3740.51	3740.51
G 70.0	3694.60	3694.60	3694.60	3694.60	3694.60	3694.60	3694.60	3694.60	3694.60	3694.60
G 75.0	3660.93	3660.93	3660.93	3660.93	3660.93	3660.93	3660.93	3660.93	3660.93	3660.93
G 80.0	3641.36	3641.36	3641.36	3641.36	3641.36	3641.36	3641.36	3641.36	3641.36	3641.36
G 85.0	3662.22	3662.22	3662.22	3662.22	3662.22	3662.22	3662.22	3662.22	3662.22	3662.22
G 90.0	4074.27	4074.27	4074.27	4074.27	4074.27	4074.27	4074.27	4074.27	4074.27	4074.27

## Luminaria

Código 15-A126-05-F9\_4000K

Nombre SPARK

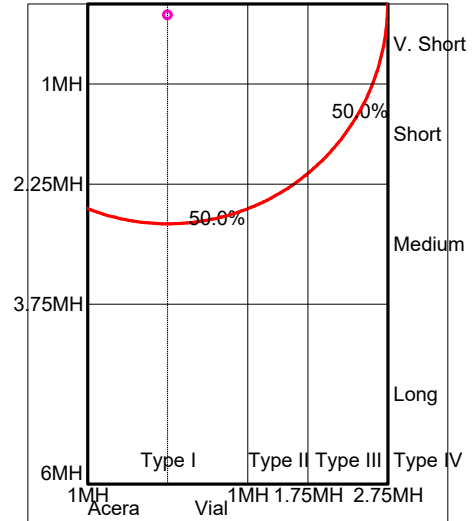
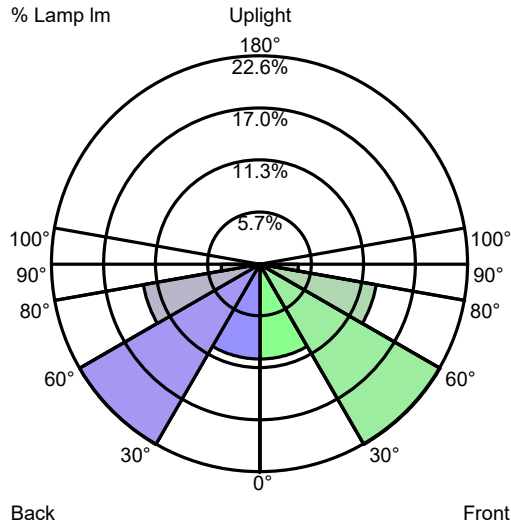
## Ensayo

Código 15-A126-05-F9\_4000K

Nombre SPARK

Flujo Luminaria	760 lm	Potencia Luminaria	16.0 W	Eficacia	47.480 lm/W	Eficiencia	100.00%
Flujo Fuente	760 lm	Valor Máximo	252.66 cd/klm	Posición	C=0.00 G=8.00	CG	Rotosimétrico

## US ROAD STANDARDS



Luminaire Classification System (LCS)			
LCS Zone		Lumens	%Lamp
FL	0° -- 30°	78.3 lm	10.3 %
FM	30° -- 60°	171.9 lm	22.6 %
FH	60° -- 80°	97.7 lm	12.9 %
FVH	80° -- 90°	31.9 lm	4.2 %
BL	0° -- 30°	78.3 lm	10.3 %
BM	30° -- 60°	171.9 lm	22.6 %
BH	60° -- 80°	97.7 lm	12.9 %
BVH	80° -- 90°	31.9 lm	4.2 %
UL	90° -- 100°	0.0 lm	0.0 %
UH	100° -- 180°	0.0 lm	0.0 %
TOTALS		759.7 lm	100.0 %
BUG B0 U0 G1 Type V Very Short Quadrilateral Symmetry			