

# LEDS C4<sup>o</sup>

## Luminaria

Código 75-8508-21-K3  
Nombre VAN

## Ensayo

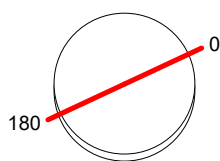
Código 75-8508-21-K3  
Nombre VAN

Flujo Luminaria	256.09 lm	Potencia luminaria	10.80 W	Eficacia	23.71 lm/W	Eficiencia	100.00%
Flujo de Lámpara	256.09 lm	Valor Máximo	244.68 cd/klm	Posición	C=0.00 G=1.00	CG	Rotosimétrico
Luminaria Redonda		Diam.	200 mm	Altura	310 mm		
Área Luminosa Redonda		Diam.	196 mm	Altura	0 mm		
Área Luminosa Horizontal	0.030172 m2			Área Emisión sobre Pl. 180°	0.000000 m2		
Área Emisión sobre Pl. 0°	0.000000 m2			Área Emisión sobre Pl. 270°	0.000000 m2		
Área Emisión sobre Pl. 90°	0.000000 m2			Área de deslumbramiento a 76°	0.007299 m2		
Sist. de Coorden.	CG			Tipo de Simetría	Rotosimétrico		
Fecha	13-09-2021			Máximo Ángulo Gamma	90		
Distancia de Ensayo	0.00			Flujo de Ensayo	256.09 lm		
Operador	qualitat			Tensión de alimentación [V]			
Temperatura	25.00 °C			Corriente de alimentación [A]			
Humedad	60.00 %			Fotocélula			
Notas							

## Lámparas de la Luminaria

Familia	Código LED	Nombre LED	Flujo [lm]	Pot. [W]	Cant.
C.I.E. F UTE	37 71 95 100 100 1.00 G	D DIN 5040 B NBN	256.09 A20 BZ 6 / 1.25 / BZ 5	10.80	1

Diam=200mm



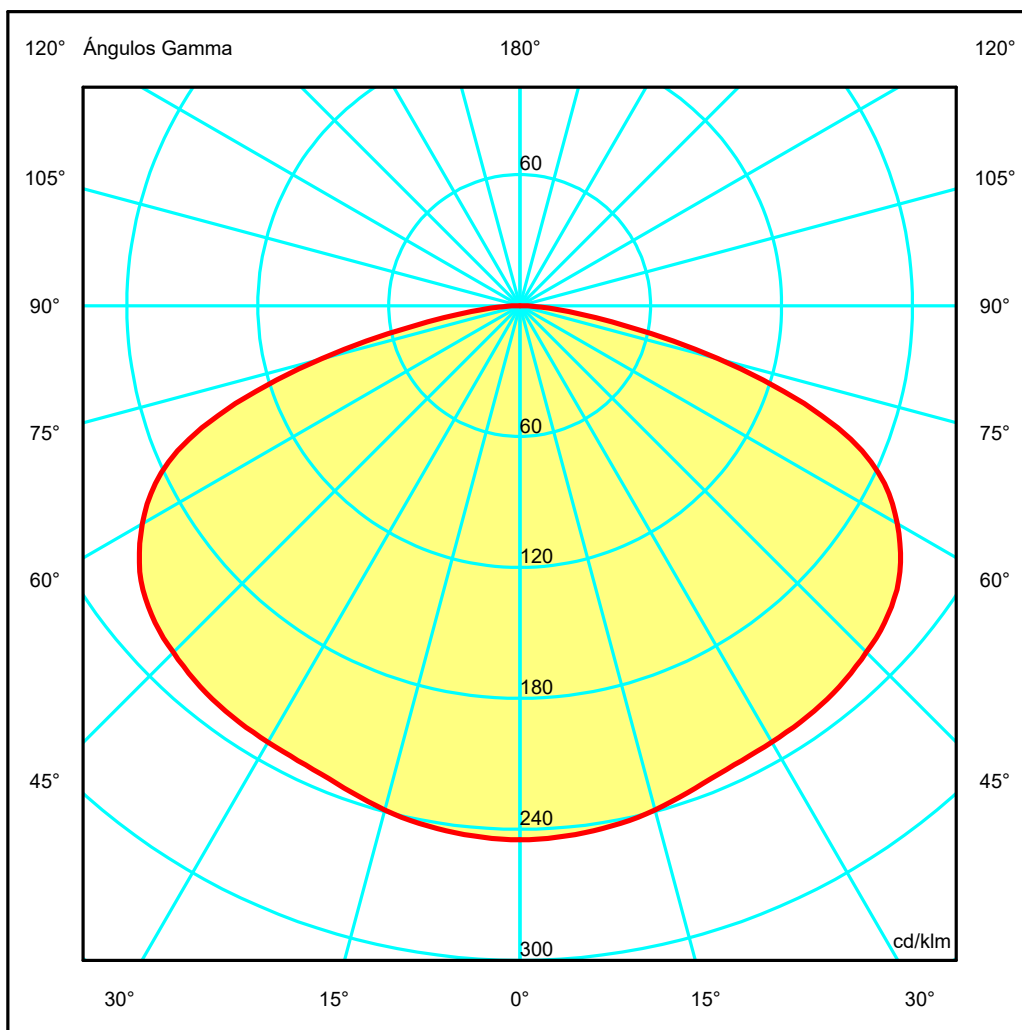
Semiplanos C

180.0 — 0.0

ULOR 0.00 %

DLOR 100.00 %

RN 0.00 %



# LEDS C4<sup>2</sup>

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

	C 0.00	C 0.00	
G 0.0	244.67	G 46.0	223.95
G 1.0	244.68	G 47.0	223.26
G 2.0	244.55	G 48.0	222.42
G 3.0	244.39	G 49.0	221.42
G 4.0	244.18	G 50.0	220.24
G 5.0	243.88	G 51.0	219.08
G 6.0	243.64	G 52.0	217.73
G 7.0	243.27	G 53.0	216.31
G 8.0	242.94	G 54.0	214.54
G 9.0	242.51	G 55.0	212.58
G 10.0	242.09	G 56.0	210.33
G 11.0	241.68	G 57.0	207.92
G 12.0	241.19	G 58.0	205.36
G 13.0	240.66	G 59.0	202.58
G 14.0	239.94	G 60.0	199.78
G 15.0	239.24	G 61.0	196.64
G 16.0	238.41	G 62.0	193.46
G 17.0	237.65	G 63.0	189.76
G 18.0	236.82	G 64.0	185.83
G 19.0	236.02	G 65.0	181.27
G 20.0	235.22	G 66.0	176.19
G 21.0	234.40	G 67.0	170.39
G 22.0	233.73	G 68.0	163.55
G 23.0	233.13	G 69.0	156.07
G 24.0	232.65	G 70.0	147.11
G 25.0	232.21	G 71.0	137.79
G 26.0	231.90	G 72.0	127.30
G 27.0	231.58	G 73.0	116.62
G 28.0	231.32	G 74.0	105.33
G 29.0	231.11	G 75.0	93.99
G 30.0	230.89	G 76.0	82.92
G 31.0	230.73	G 77.0	72.12
G 32.0	230.50	G 78.0	61.73
G 33.0	230.31	G 79.0	51.50
G 34.0	230.06	G 80.0	42.84
G 35.0	229.83	G 81.0	35.27
G 36.0	229.51	G 82.0	28.61
G 37.0	229.17	G 83.0	22.60
G 38.0	228.78	G 84.0	17.56
G 39.0	228.35	G 85.0	13.29
G 40.0	227.86	G 86.0	9.58
G 41.0	227.28	G 87.0	6.37
G 42.0	226.70	G 88.0	3.70
G 43.0	225.98	G 89.0	1.58
G 44.0	225.30	G 90.0	0.14
G 45.0	224.56		

# LEDS C4<sup>2</sup>

**Luminaria**

Código 75-8508-21-K3  
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**Ensayo**

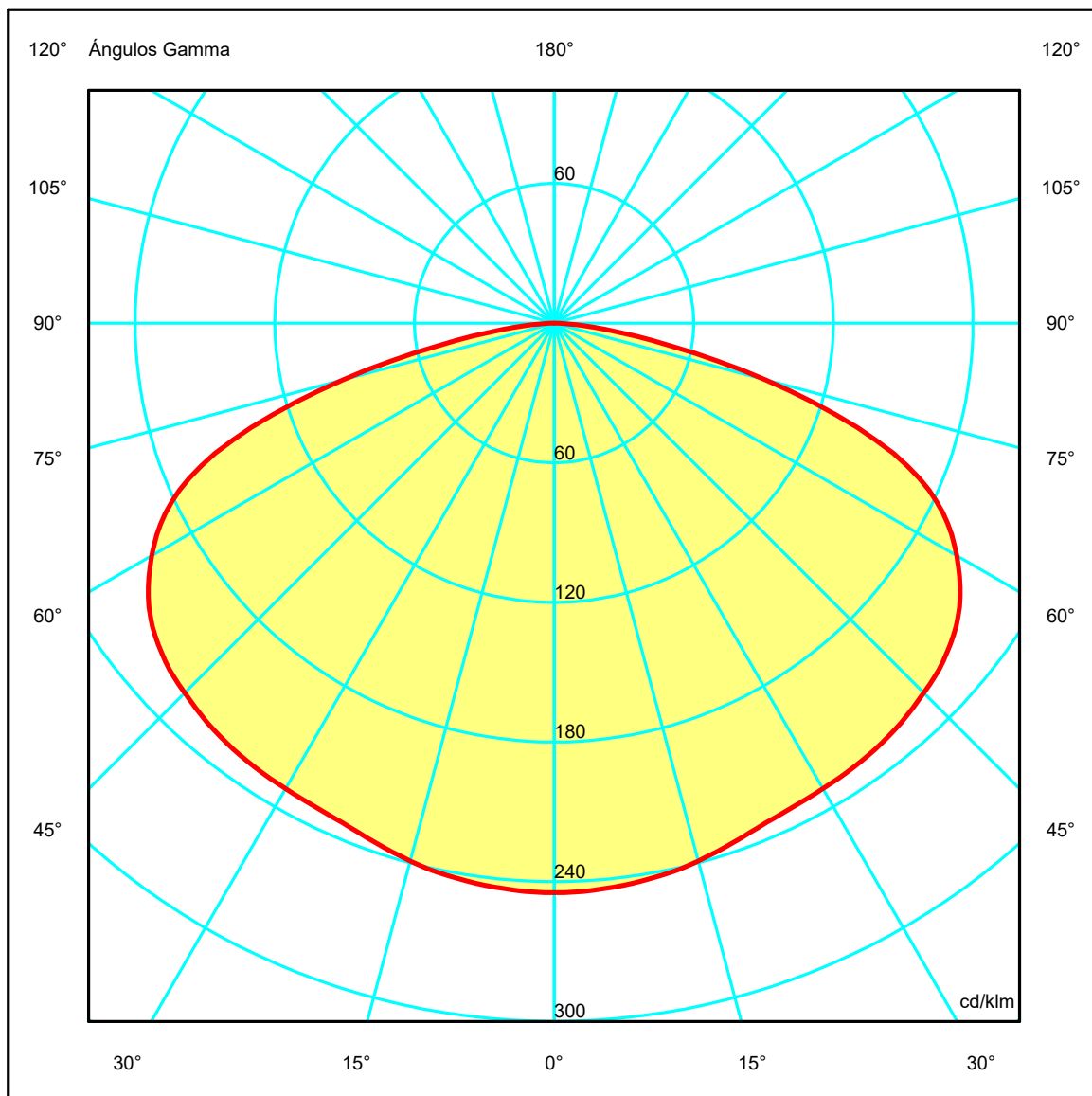
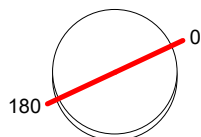
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Diam=200mm

Semiplanos C

180.0  0.0



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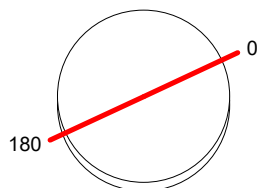
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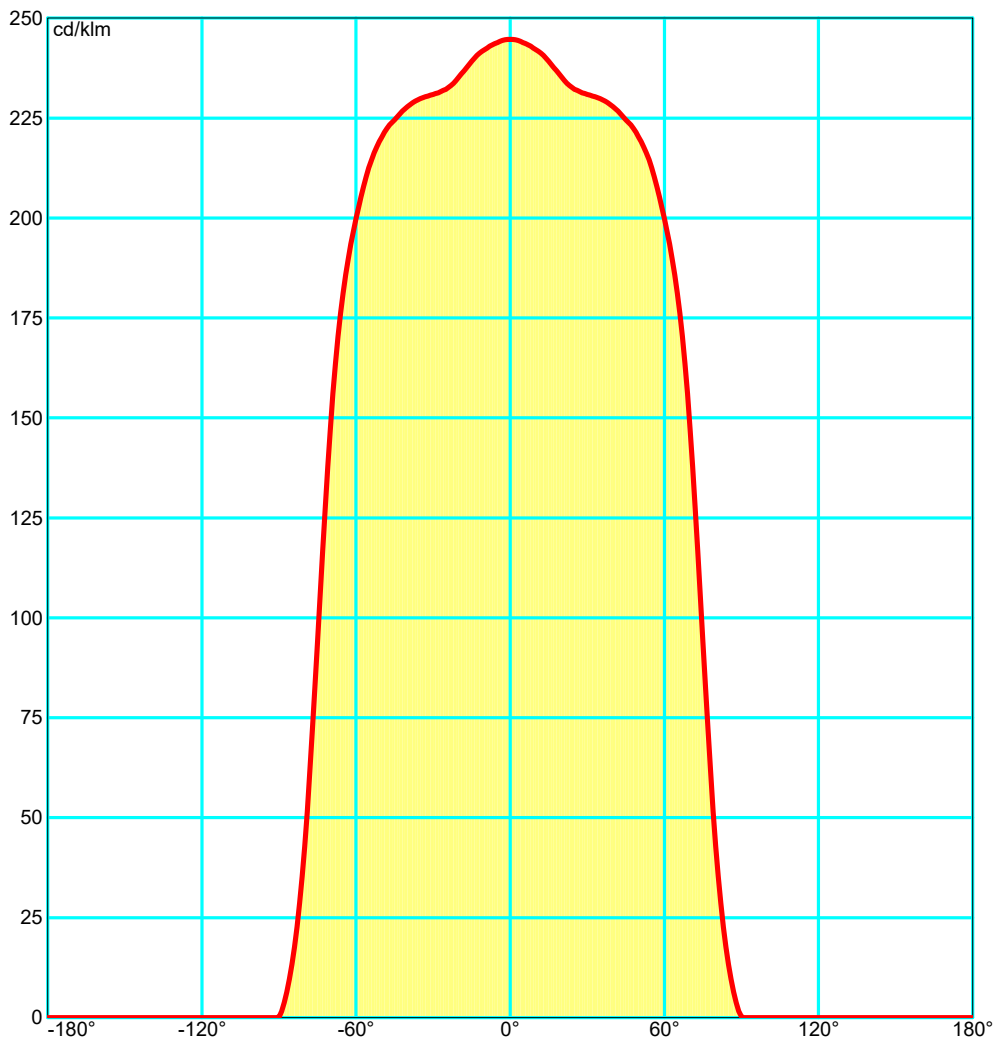
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UGR  
S = 0.250

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 Lateral					Vista Longitudinal				
x=2H y=2H	17.3	18.8	17.6	19.0	19.3	17.3	18.8	17.6	19.0	19.3
x=2H y=3H	19.6	20.9	19.9	21.2	21.5	19.6	20.9	19.9	21.2	21.5
x=2H y=4H	20.3	21.6	20.7	21.9	22.2	20.3	21.6	20.7	21.9	22.2
x=2H y=6H	20.7	21.8	21.0	22.2	22.5	20.7	21.8	21.0	22.2	22.5
x=2H y=8H	20.7	21.9	21.1	22.2	22.5	20.7	21.9	21.1	22.2	22.5
x=2H y=12H	20.7	21.8	21.1	22.2	22.5	20.7	21.8	21.1	22.2	22.5
x=4H y=2H	18.3	19.5	18.6	19.8	20.1	18.3	19.5	18.6	19.8	20.1
x=4H y=3H	20.6	21.7	21.0	22.1	22.4	20.6	21.7	21.0	22.1	22.4
x=4H y=4H	21.5	22.4	21.9	22.8	23.2	21.5	22.4	21.9	22.8	23.2
x=4H y=6H	21.9	22.7	22.3	23.1	23.5	21.9	22.7	22.3	23.1	23.5
x=4H y=8H	22.0	22.7	22.4	23.2	23.6	22.0	22.7	22.4	23.2	23.6
x=4H y=12H	22.0	22.7	22.5	23.1	23.6	22.0	22.7	22.5	23.1	23.6
x=8H y=4H	21.8	22.5	22.2	22.9	23.4	21.8	22.5	22.2	22.9	23.4
x=8H y=6H	22.3	22.9	22.7	23.3	23.8	22.3	22.9	22.7	23.3	23.8
x=8H y=8H	22.4	23.0	22.9	23.4	23.9	22.4	23.0	22.9	23.4	23.9
x=8H y=12H	22.5	23.0	23.0	23.4	23.9	22.5	23.0	23.0	23.4	23.9
x=12H y=4H	21.8	22.5	22.2	22.9	23.3	21.8	22.5	22.2	22.9	23.3
x=12H y=6H	22.3	22.9	22.8	23.3	23.8	22.3	22.9	22.8	23.3	23.8
x=12H y=8H	22.5	22.9	23.0	23.4	23.9	22.5	22.9	23.0	23.4	23.9

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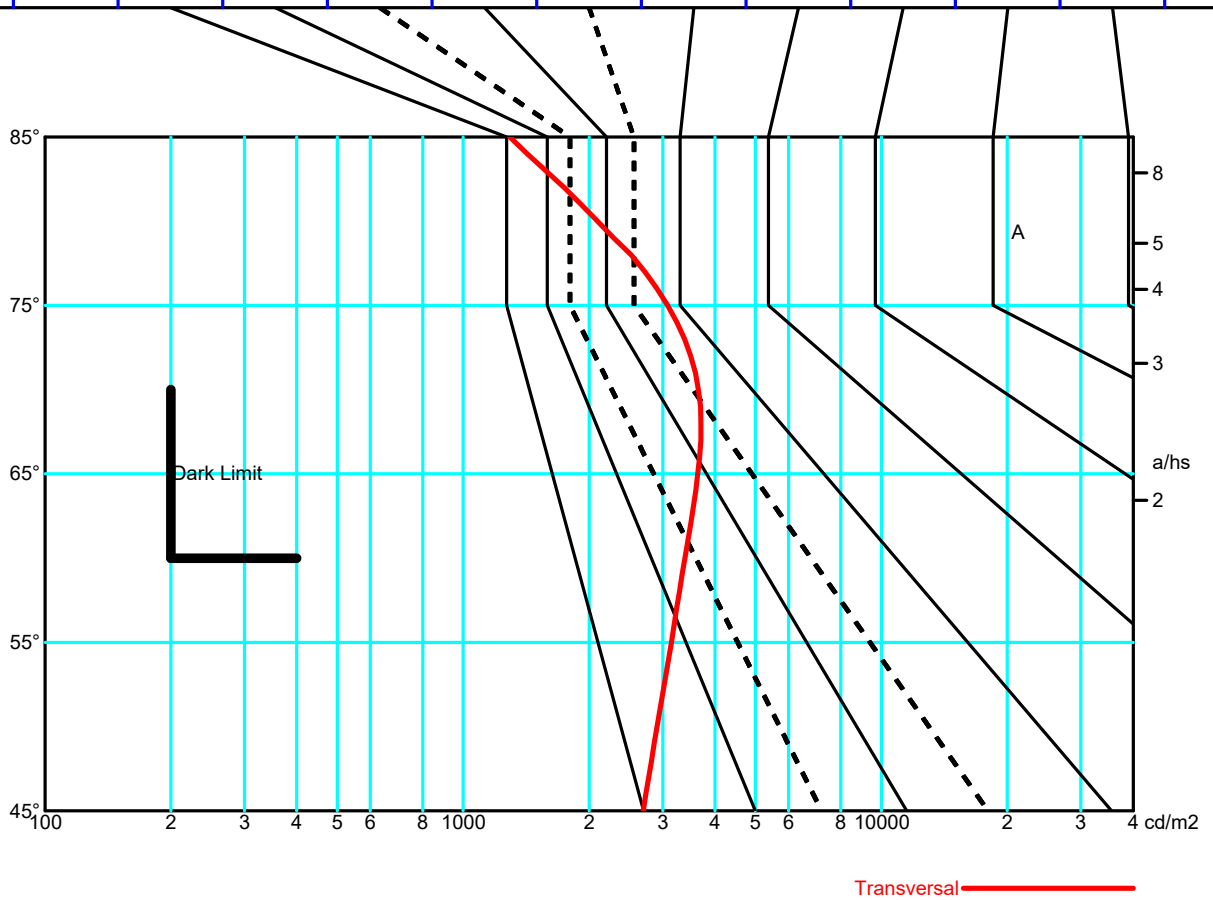
## Ensayo

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Flujo de Lámpara	256.09 lm	Valor Máximo	244.68 cd/klm	Posición	C=0.00 G=1.00	CG	Rotosimétrico

Luminancia Media [cd/m <sup>2</sup> ]										
0.0°	45°	50°	55°	60°	65°	70°	75°	80°	85°	---
	2696	2908	3146	3391	3641	3651	3082	2094	1294	

Flujo montado o vista longitudinal												
		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



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Flujo Total=256.09 Flujo Luminaria=256.09

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	0.23	0.31	0.39	0.46	0.52	0.62	0.69	0.74	0.80	0.84	0.92	0.96
RC	7	7	7	7	6	6	6	6	6	6	5	4

Flujo Zonal por 1000 Lúmenes

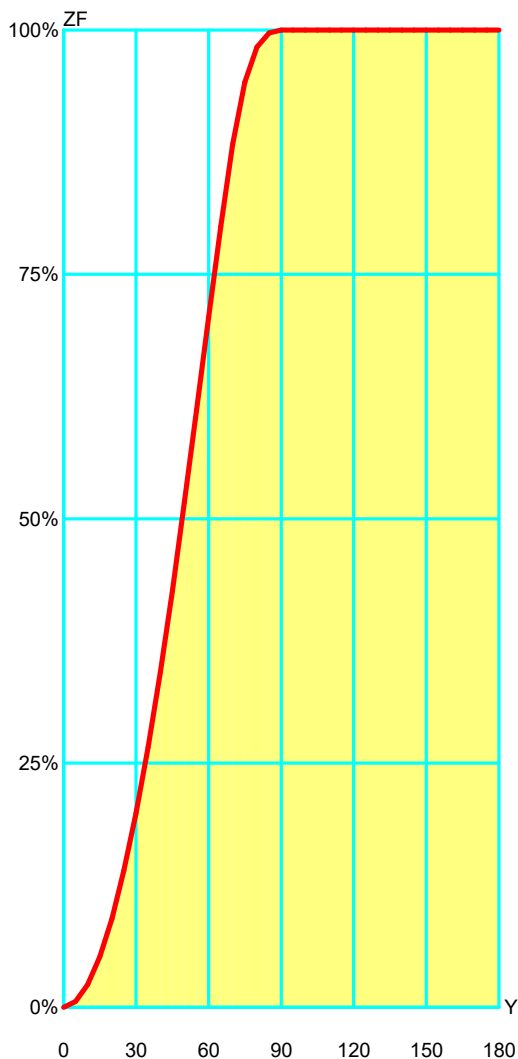
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	23	91	198	343	516	706	883	983	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Códigos de Flujo C.I.E.

37 71 95 100 100

C.I.E. 7/7/7/6/6/6/6/6/5/4  
D DIN 5040 A20  
F UTE 1.00 G  
B NBN BZ 6 / 1.25 / BZ 5  
RN 0.00000 %  
BLF 1.0

LOR 100.00000 %  
ULOR 0.00000 %  
DLOR 100.00000 %  
UFF 0.00000 %  
DFF 100.00000 %  
FFR 0.00000 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	5.84	5.84	0.58 %	0.58 %
10°	17.38	23.22	1.74 %	2.32 %
15°	28.56	51.79	2.86 %	5.18 %
20°	39.09	90.87	3.91 %	9.09 %
25°	48.97	139.85	4.90 %	13.98 %
30°	58.59	198.43	5.86 %	19.84 %
35°	67.85	266.28	6.79 %	26.63 %
40°	76.38	342.67	7.64 %	34.27 %
45°	83.79	426.46	8.38 %	42.65 %
50°	89.99	516.44	9.00 %	51.64 %
55°	94.27	610.71	9.43 %	61.07 %
60°	95.43	706.13	9.54 %	70.61 %
65°	92.95	799.09	9.30 %	79.91 %
70°	84.05	883.14	8.41 %	88.31 %
75°	63.46	946.61	6.35 %	94.66 %
80°	35.99	982.60	3.60 %	98.26 %
85°	14.34	996.94	1.43 %	99.69 %
90°	3.06	1000.00	0.31 %	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 %





# LEDS C4<sup>+</sup>

## Luminaria

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## Ensayo

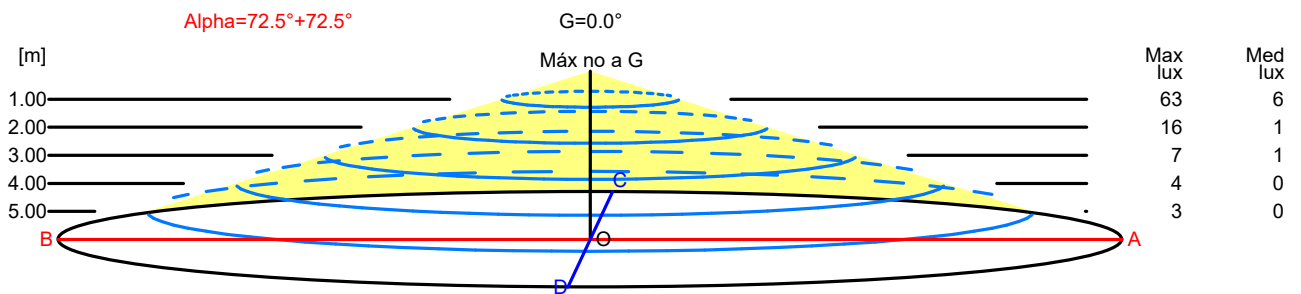
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### Apertura a 50.00 % de Max Intensidad

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	3.16	6.33	9.49	12.66	15.82	OC	3.16	6.33	9.49	12.66	15.82
OB	3.16	6.33	9.49	12.66	15.82	OD	3.16	6.33	9.49	12.66	15.82

	Intensidades Luminosas [ cd/klm ]									
	0	5	15	25	35	45	55	65	75	85
OA	62.66	62.45	61.27	59.47	58.86	57.51	54.44	46.42	24.07	3.40
OB	62.66	62.45	61.27	59.47	58.86	57.51	54.44	46.42	24.07	3.40
OC	62.66	62.45	61.27	59.47	58.86	57.51	54.44	46.42	24.07	3.40
OD	62.66	62.45	61.27	59.47	58.86	57.51	54.44	46.42	24.07	3.40



H[m]	D[m]	Max lux	Med lux	Alpha=72.5°+72.5°	G=0.0 Máx no a G
1.00	6.33	63	6		
2.00	12.66	16	1		
3.00	18.99	7	1		
4.00	25.32	4	0		
5.00	31.65	3	0		

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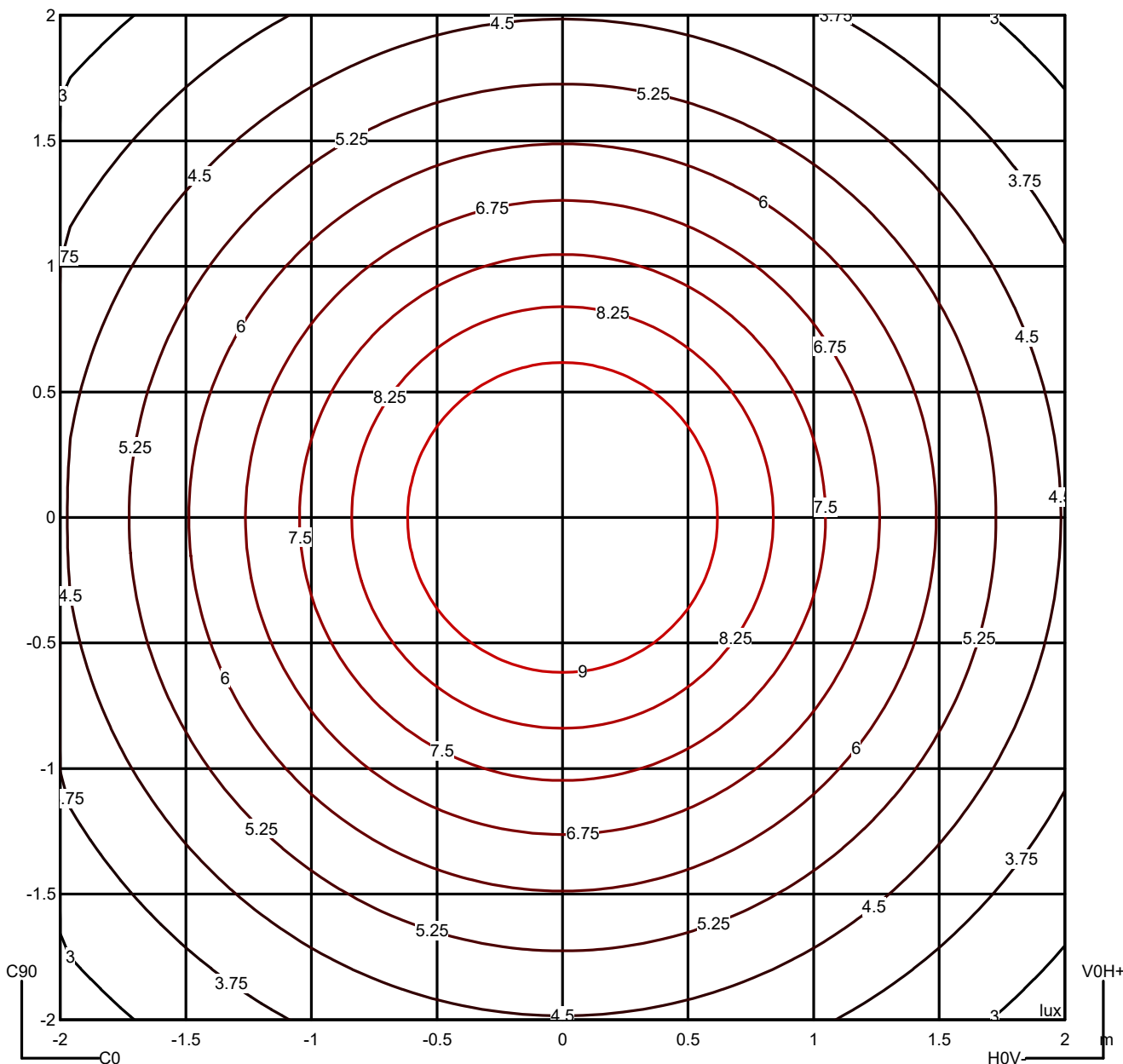
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Isolux (Suelo)

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



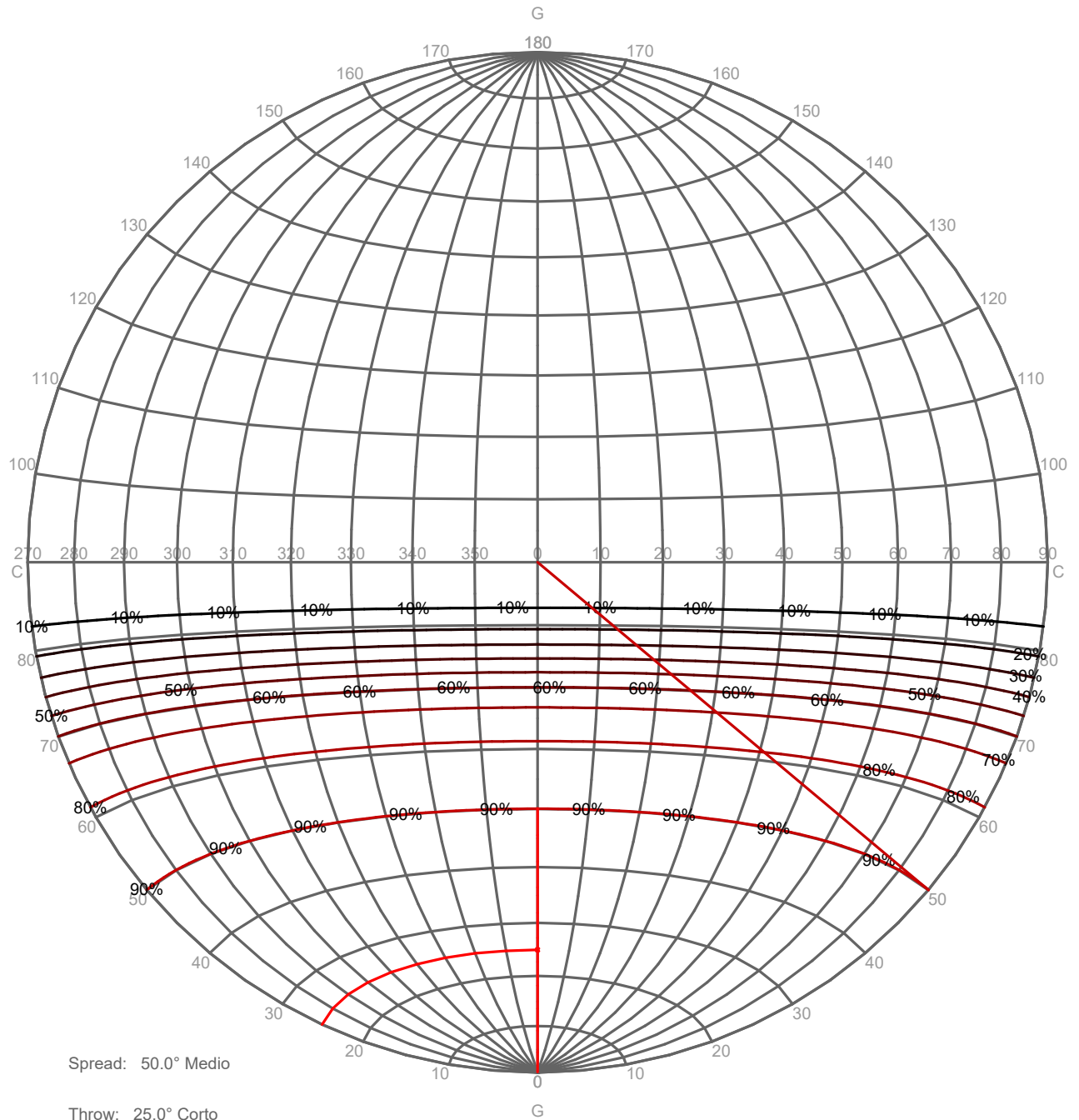
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## PORCENTAJE ISOCANDELAS

Proyección: Equivalente SLI 8.9 Concentrado Ángulo de Inclinación: 0°



# LEDS C4<sup>®</sup>

**Luminaria**

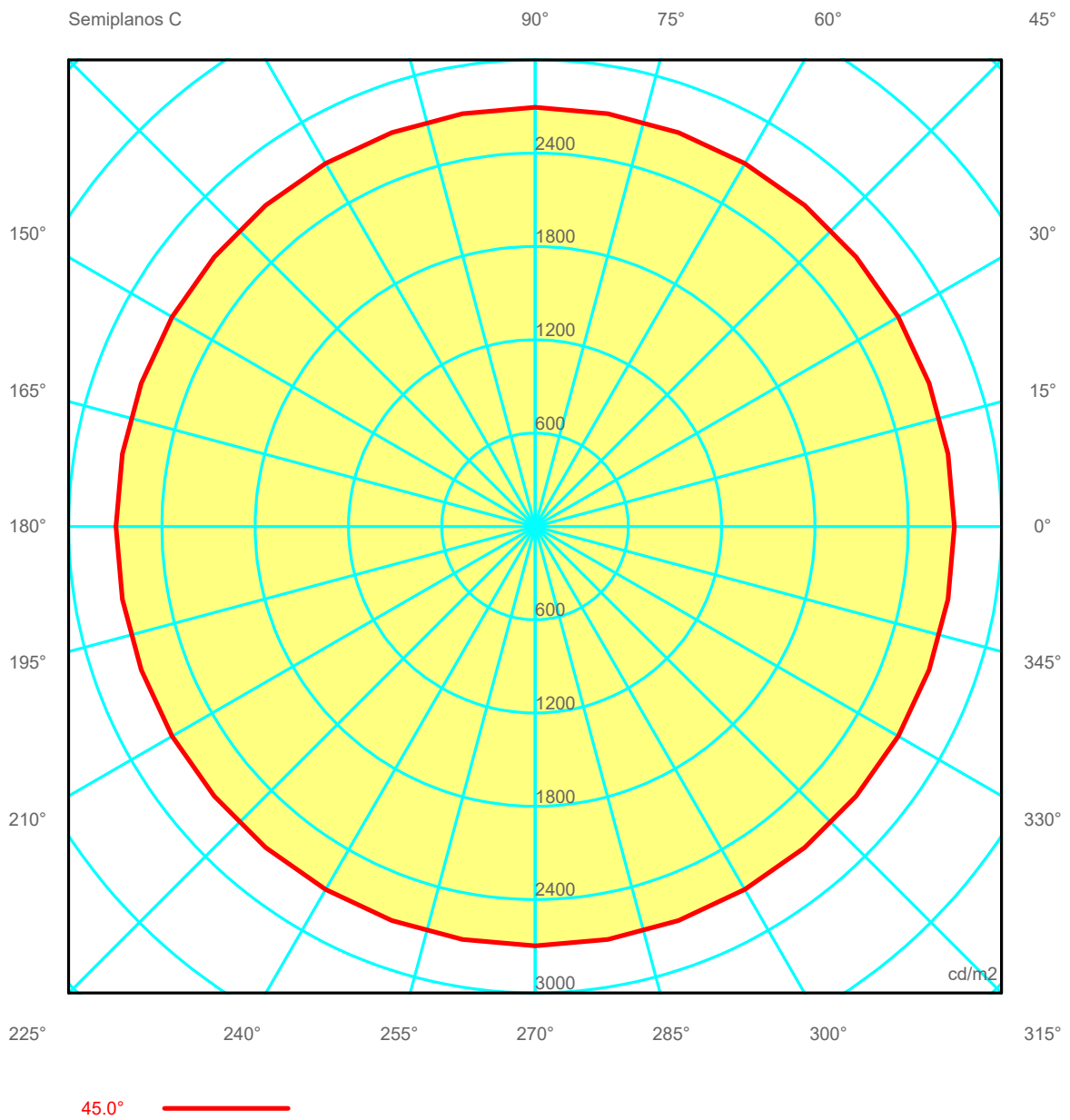
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Luminancia



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### 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	2076.70	2076.70	2076.70	2076.70	2076.70	2076.70	2076.70	2076.70	2076.70	2076.70	2076.70	2076.70	2076.70
G 5.0	2077.88	2077.88	2077.88	2077.88	2077.88	2077.88	2077.88	2077.88	2077.88	2077.88	2077.88	2077.88	2077.88
G 10.0	2086.48	2086.48	2086.48	2086.48	2086.48	2086.48	2086.48	2086.48	2086.48	2086.48	2086.48	2086.48	2086.48
G 15.0	2102.25	2102.25	2102.25	2102.25	2102.25	2102.25	2102.25	2102.25	2102.25	2102.25	2102.25	2102.25	2102.25
G 20.0	2124.57	2124.57	2124.57	2124.57	2124.57	2124.57	2124.57	2124.57	2124.57	2124.57	2124.57	2124.57	2124.57
G 25.0	2174.65	2174.65	2174.65	2174.65	2174.65	2174.65	2174.65	2174.65	2174.65	2174.65	2174.65	2174.65	2174.65
G 30.0	2262.94	2262.94	2262.94	2262.94	2262.94	2262.94	2262.94	2262.94	2262.94	2262.94	2262.94	2262.94	2262.94
G 35.0	2381.37	2381.37	2381.37	2381.37	2381.37	2381.37	2381.37	2381.37	2381.37	2381.37	2381.37	2381.37	2381.37
G 40.0	2524.65	2524.65	2524.65	2524.65	2524.65	2524.65	2524.65	2524.65	2524.65	2524.65	2524.65	2524.65	2524.65
G 45.0	2695.51	2695.51	2695.51	2695.51	2695.51	2695.51	2695.51	2695.51	2695.51	2695.51	2695.51	2695.51	2695.51
G 50.0	2908.12	2908.12	2908.12	2908.12	2908.12	2908.12	2908.12	2908.12	2908.12	2908.12	2908.12	2908.12	2908.12
G 55.0	3145.71	3145.71	3145.71	3145.71	3145.71	3145.71	3145.71	3145.71	3145.71	3145.71	3145.71	3145.71	3145.71
G 60.0	3391.35	3391.35	3391.35	3391.35	3391.35	3391.35	3391.35	3391.35	3391.35	3391.35	3391.35	3391.35	3391.35
G 65.0	3640.54	3640.54	3640.54	3640.54	3640.54	3640.54	3640.54	3640.54	3640.54	3640.54	3640.54	3640.54	3640.54
G 70.0	3650.73	3650.73	3650.73	3650.73	3650.73	3650.73	3650.73	3650.73	3650.73	3650.73	3650.73	3650.73	3650.73
G 75.0	3082.42	3082.42	3082.42	3082.42	3082.42	3082.42	3082.42	3082.42	3082.42	3082.42	3082.42	3082.42	3082.42
G 80.0	2093.88	2093.88	2093.88	2093.88	2093.88	2093.88	2093.88	2093.88	2093.88	2093.88	2093.88	2093.88	2093.88
G 85.0	1293.92	1293.92	1293.92	1293.92	1293.92	1293.92	1293.92	1293.92	1293.92	1293.92	1293.92	1293.92	1293.92
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

# LEDS C4<sup>+</sup>

## Luminaria

Código 75-8508-21-K3

Nombre VAN

## Ensayo

Código 75-8508-21-K3

Nombre VAN

Flujo Luminaria	256.09 lm	Potencia luminaria	10.80 W	Eficacia	23.71 lm/W	Eficiencia	100.00%
Flujo de Lámpara	256.09 lm	Valor Máximo	244.68 cd/klm	Posición	C=0.00 G=1.00	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	2076.70	2076.70	2076.70	2076.70	2076.70	2076.70	2076.70	2076.70	2076.70	2076.70	2076.70	2076.70	2076.70
G 5.0	2077.88	2077.88	2077.88	2077.88	2077.88	2077.88	2077.88	2077.88	2077.88	2077.88	2077.88	2077.88	2077.88
G 10.0	2086.48	2086.48	2086.48	2086.48	2086.48	2086.48	2086.48	2086.48	2086.48	2086.48	2086.48	2086.48	2086.48
G 15.0	2102.25	2102.25	2102.25	2102.25	2102.25	2102.25	2102.25	2102.25	2102.25	2102.25	2102.25	2102.25	2102.25
G 20.0	2124.57	2124.57	2124.57	2124.57	2124.57	2124.57	2124.57	2124.57	2124.57	2124.57	2124.57	2124.57	2124.57
G 25.0	2174.65	2174.65	2174.65	2174.65	2174.65	2174.65	2174.65	2174.65	2174.65	2174.65	2174.65	2174.65	2174.65
G 30.0	2262.94	2262.94	2262.94	2262.94	2262.94	2262.94	2262.94	2262.94	2262.94	2262.94	2262.94	2262.94	2262.94
G 35.0	2381.37	2381.37	2381.37	2381.37	2381.37	2381.37	2381.37	2381.37	2381.37	2381.37	2381.37	2381.37	2381.37
G 40.0	2524.65	2524.65	2524.65	2524.65	2524.65	2524.65	2524.65	2524.65	2524.65	2524.65	2524.65	2524.65	2524.65
G 45.0	2695.51	2695.51	2695.51	2695.51	2695.51	2695.51	2695.51	2695.51	2695.51	2695.51	2695.51	2695.51	2695.51
G 50.0	2908.12	2908.12	2908.12	2908.12	2908.12	2908.12	2908.12	2908.12	2908.12	2908.12	2908.12	2908.12	2908.12
G 55.0	3145.71	3145.71	3145.71	3145.71	3145.71	3145.71	3145.71	3145.71	3145.71	3145.71	3145.71	3145.71	3145.71
G 60.0	3391.35	3391.35	3391.35	3391.35	3391.35	3391.35	3391.35	3391.35	3391.35	3391.35	3391.35	3391.35	3391.35
G 65.0	3640.54	3640.54	3640.54	3640.54	3640.54	3640.54	3640.54	3640.54	3640.54	3640.54	3640.54	3640.54	3640.54
G 70.0	3650.73	3650.73	3650.73	3650.73	3650.73	3650.73	3650.73	3650.73	3650.73	3650.73	3650.73	3650.73	3650.73
G 75.0	3082.42	3082.42	3082.42	3082.42	3082.42	3082.42	3082.42	3082.42	3082.42	3082.42	3082.42	3082.42	3082.42
G 80.0	2093.88	2093.88	2093.88	2093.88	2093.88	2093.88	2093.88	2093.88	2093.88	2093.88	2093.88	2093.88	2093.88
G 85.0	1293.92	1293.92	1293.92	1293.92	1293.92	1293.92	1293.92	1293.92	1293.92	1293.92	1293.92	1293.92	1293.92
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

# LEDS C4<sup>2</sup>

## Luminaria

Código 75-8508-21-K3  
Nombre VAN

## Ensayo

Código 75-8508-21-K3  
Nombre VAN

Flujo Luminaria	256.09 lm	Potencia luminaria	10.80 W	Eficacia	23.71 lm/W	Eficiencia	100.00%
Flujo de Lámpara	256.09 lm	Valor Máximo	244.68 cd/klm	Posición	C=0.00 G=1.00	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	2076.70	2076.70	2076.70	2076.70	2076.70	2076.70	2076.70	2076.70	2076.70	2076.70
G 5.0	2077.88	2077.88	2077.88	2077.88	2077.88	2077.88	2077.88	2077.88	2077.88	2077.88
G 10.0	2086.48	2086.48	2086.48	2086.48	2086.48	2086.48	2086.48	2086.48	2086.48	2086.48
G 15.0	2102.25	2102.25	2102.25	2102.25	2102.25	2102.25	2102.25	2102.25	2102.25	2102.25
G 20.0	2124.57	2124.57	2124.57	2124.57	2124.57	2124.57	2124.57	2124.57	2124.57	2124.57
G 25.0	2174.65	2174.65	2174.65	2174.65	2174.65	2174.65	2174.65	2174.65	2174.65	2174.65
G 30.0	2262.94	2262.94	2262.94	2262.94	2262.94	2262.94	2262.94	2262.94	2262.94	2262.94
G 35.0	2381.37	2381.37	2381.37	2381.37	2381.37	2381.37	2381.37	2381.37	2381.37	2381.37
G 40.0	2524.65	2524.65	2524.65	2524.65	2524.65	2524.65	2524.65	2524.65	2524.65	2524.65
G 45.0	2695.51	2695.51	2695.51	2695.51	2695.51	2695.51	2695.51	2695.51	2695.51	2695.51
G 50.0	2908.12	2908.12	2908.12	2908.12	2908.12	2908.12	2908.12	2908.12	2908.12	2908.12
G 55.0	3145.71	3145.71	3145.71	3145.71	3145.71	3145.71	3145.71	3145.71	3145.71	3145.71
G 60.0	3391.35	3391.35	3391.35	3391.35	3391.35	3391.35	3391.35	3391.35	3391.35	3391.35
G 65.0	3640.54	3640.54	3640.54	3640.54	3640.54	3640.54	3640.54	3640.54	3640.54	3640.54
G 70.0	3650.73	3650.73	3650.73	3650.73	3650.73	3650.73	3650.73	3650.73	3650.73	3650.73
G 75.0	3082.42	3082.42	3082.42	3082.42	3082.42	3082.42	3082.42	3082.42	3082.42	3082.42
G 80.0	2093.88	2093.88	2093.88	2093.88	2093.88	2093.88	2093.88	2093.88	2093.88	2093.88
G 85.0	1293.92	1293.92	1293.92	1293.92	1293.92	1293.92	1293.92	1293.92	1293.92	1293.92
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00