Luminaria

Código	37803318190
Nombre	KANDO M40R 2200K CREAM RIBBON
Familia	KANDO

Ensayo

Código	CL092A24D014GPE1
Nombre	KANDO M40R 2200K CREAM RIBBON

Datos Fuente de luz

Código	JB2835BWT-G-U27EA0000 (60x) JB2835BWT-G-U22EA0000 (60x)	Temperatura de Color correlacionada (TCP)	2152K	Cant. 1
Nombre	Cree J Series 2835 3-V	Índice repr. Cromática (CRI)	93	
Familia				

Datos del Ensayo

Sist. de Coorden.	CG	Tipo de Simetría	Bisimétrico
Fecha	24-10-2024	Máximo Ángulo Gamma	180°
Distancia de Ensayo	6.49m	Flujo de Ensayo	159.7 lm
Máximo	742.30 cd/klm	Posición	C=75.0° G=5.0°
Notas	RM24093002		

Parám. Eléctricos

Canal 1		Canal 2	
Tensión	0.00 V	Tensión	0.00 V
Corriente	0.00 A	Corriente	0.00 A
Potencia	5.00 W	Potencia	0.00 W
Frecuencia	0 Hz	Frecuencia	0 Hz
Factor de Potencia	0.00	Factor de Potencia	0.00

Parámetros Ambientales

Temperatura	24.8 °C	Velocidad del Aire	0.0 m/s
Humedad	44.6 %		

Dim. de la Luminaria

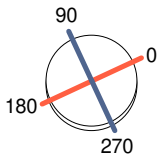
Luminaria Redonda	Diam.	250 mm	Altura	60 mm	
Área Luminosa Redonda	Diam.	170 mm	Altura	60 mm	
Área Luminosa Horizontal	0.022698 m2		Área Emisión sobre Pl. 180°	0.010200 m2	
Área Emisión sobre Pl. 0°	0.010200 m2		Área Emisión sobre Pl. 270°	0.010200 m2	
Área Emisión sobre Pl. 90°	0.010200 m2		Área de deslumbramiento a 76°	0.015388 m2	

Análisis Fotométrico

Flujo Luminaria	157.0 lm	Flujo Fuente	157.0 lm
Eficacia	31.400 lm/W	Eficiencia	100.0 %
Códigos de Flujo C.I.E.	63 83 94 95 100	D DIN 5040	A51
F UTE	0.95 C + 0.05 T	B NBN	BZ 2 / 1 / BZ 3 / 4 / BZ 4

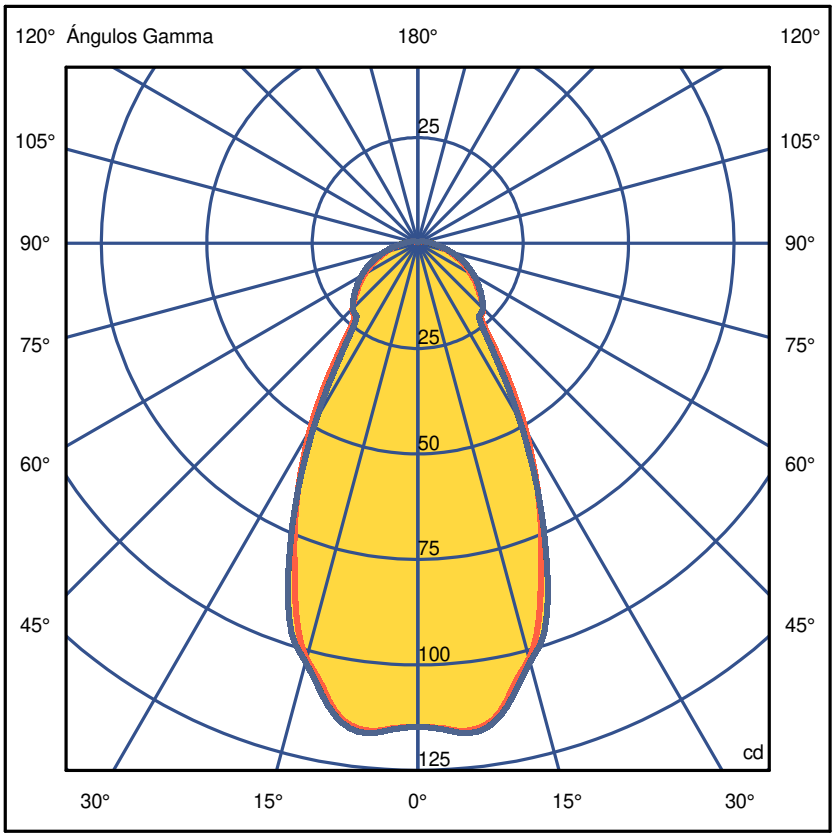


Diam=250mm





ULOR 4.79 %
DLOR 95.21 %
RN 4.79 %



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Flujo Luminaria	157 lm	Potencia Luminaria	5.0 W	Eficacia	31.400 lm/W	Eficiencia	100.00%
Flujo Fuente	157 lm	Valor Máximo	116.54 cd	Posición	C=75.00 G=5.00	CG	Bisimétrico

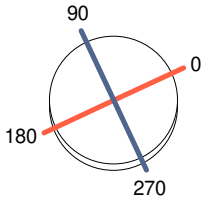
Tabla de Intensidad Luminosa cd **Tabla 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	115	115	115	115	115	115	115
G 2.5	115	115	115	115	115	115	115
G 5.0	116	116	116	116	117	117	117
G 7.5	116	116	116	116	116	116	116
G 10.0	113	113	113	113	113	113	114
G 12.5	107	107	108	108	108	108	108
G 15.0	102	102	101	101	102	102	103
G 17.5	95	94	94	94	96	97	98
G 20.0	85	86	86	86	88	89	90
G 22.5	76	77	78	78	79	79	79
G 25.0	68	69	69	69	69	69	69
G 27.5	60	59	59	58	58	58	58
G 30.0	51	51	50	49	48	48	48
G 32.5	43	42	41	40	39	39	39
G 35.0	35	35	34	33	32	31	31
G 37.5	28	28	28	27	26	25	25
G 40.0	23	23	23	23	23	23	23
G 42.5	23	22	22	23	22	22	22
G 45.0	22	22	22	22	22	22	22
G 47.5	21	21	21	21	21	21	21
G 50.0	19	19	19	19	20	20	20
G 52.5	18	18	18	18	18	19	19
G 55.0	17	17	17	17	17	18	18
G 57.5	16	16	15	16	16	16	17
G 60.0	15	14	14	14	15	15	15
G 62.5	13	13	13	13	14	14	14
G 65.0	12	12	12	12	13	13	13
G 67.5	11	11	11	11	12	12	12
G 70.0	10	10	10	10	10	11	11
G 72.5	9	9	9	9	9	9	9
G 75.0	8	8	8	8	8	8	8
G 77.5	7	7	7	7	7	7	7
G 80.0	6	6	6	6	6	6	6
G 82.5	5	5	5	5	5	5	5
G 85.0	4	4	5	5	5	5	4
G 87.5	4	4	4	4	4	4	4
G 90.0	3	3	3	3	3	3	3
G 92.5	3	3	3	3	3	3	3
G 95.0	3	3	3	3	3	3	3
G 97.5	2	2	2	2	2	2	2
G100.0	2	2	2	2	2	2	2
G102.5	2	2	2	2	2	2	2
G105.0	2	2	2	2	2	2	2
G107.5	1	2	2	2	2	2	2
G110.0	1	1	1	1	1	1	1
G112.5	1	1	1	1	1	1	1
G115.0	1	1	1	1	1	1	1
G117.5	1	1	1	1	1	1	1
G120.0	1	1	1	1	1	1	1
G122.5	1	1	1	1	1	1	1
G125.0	1	1	1	1	1	1	1
G127.5	1	1	1	1	1	1	1
G130.0	1	1	1	1	1	1	1
G132.5	1	1	1	1	1	1	1
G135.0	1	1	1	1	1	1	1
G137.5	0	1	1	1	1	1	1
G140.0	0	0	1	1	1	0	0
G142.5	0	0	0	0	0	0	0
G145.0	0	0	0	0	0	0	0
G147.5	0	0	0	0	0	0	0
G150.0	0	0	0	0	0	0	0
G152.5	0	0	0	0	0	0	0
G155.0	0	0	0	0	0	0	0
G157.5	0	0	0	0	0	0	0
G160.0	0	0	0	0	0	0	0
G162.5	0	0	0	0	0	0	0
G165.0	0	0	0	0	0	0	0
G167.5	0	0	0	0	0	0	0
G170.0	0	0	0	0	0	0	0
G172.5	0	0	0	0	0	0	0
G175.0	0	0	0	0	0	0	0
G177.5	0	0	0	0	0	0	0
G180.0	0	0	0	0	0	0	0

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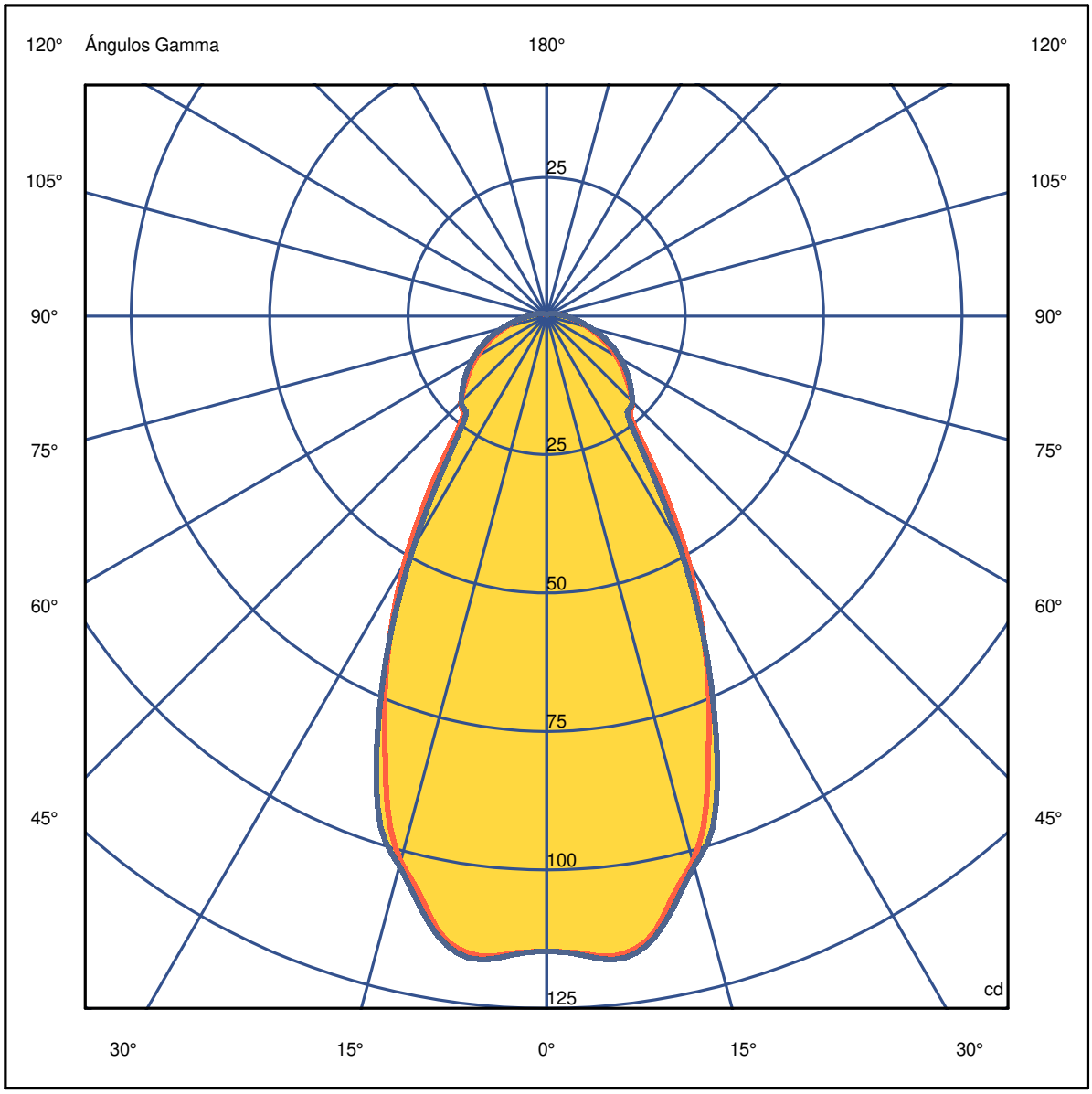
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Flujo Fuente	157 lm	Valor Máximo	116.54 cd	Posición	C=75.00 G=5.00	CG	Bisimétrico

Diam=250mm



Semiplanos C

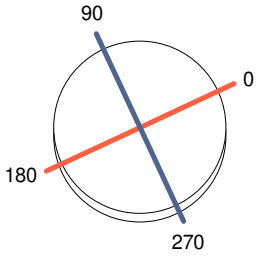




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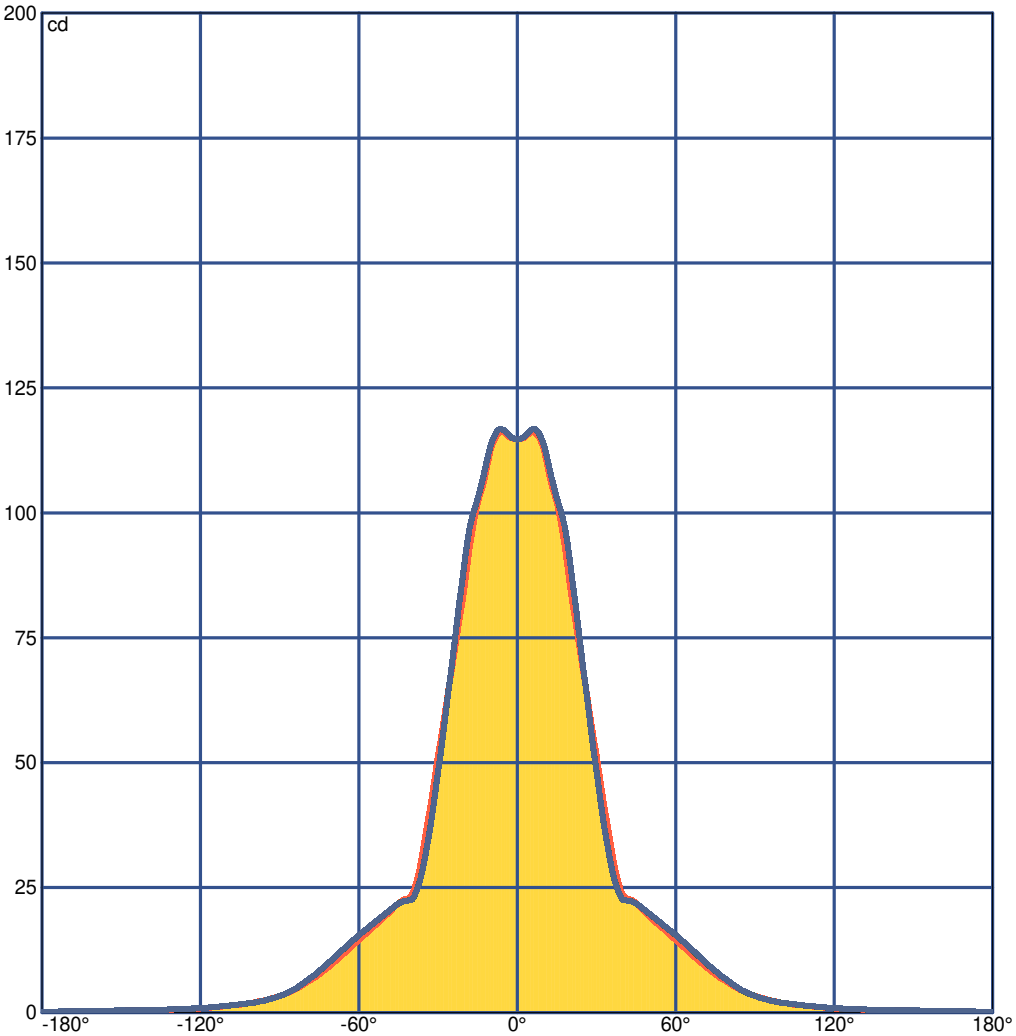
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Flujo Fuente	157 lm	Valor Máximo	116.54 cd	Posición	C=75.00 G=5.00	CG	Bisimétrico

Diam=250mm



Semiplanos C





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Flujo Fuente	157 lm	Valor Máximo	116.54 cd	Posición	C=75.00 G=5.00	CG	Bisimétrico

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 Loca	Vista Lateral					Vista Longitudinal				
x=2H y=2H	10.1	11.2	10.5	11.5	11.8	10.3	11.4	10.7	11.7	12.0
x=2H y=3H	11.5	12.5	11.9	12.8	13.1	11.8	12.8	12.2	13.1	13.5
x=2H y=4H	12.1	13.0	12.5	13.4	13.7	12.4	13.4	12.8	13.7	14.1
x=2H y=6H	12.6	13.4	13.0	13.8	14.2	12.9	13.8	13.3	14.2	14.6
x=2H y=8H	12.8	13.6	13.2	14.0	14.4	13.1	14.0	13.6	14.3	14.8
x=2H y=12H	12.9	13.7	13.4	14.1	14.6	13.3	14.1	13.7	14.5	14.9
x=4H y=2H	10.7	11.7	11.1	12.0	12.4	10.9	11.8	11.3	12.2	12.6
x=4H y=3H	12.3	13.1	12.7	13.5	13.9	12.6	13.4	13.0	13.8	14.2
x=4H y=4H	13.0	13.7	13.5	14.1	14.6	13.3	14.0	13.8	14.5	14.9
x=4H y=6H	13.6	14.3	14.1	14.7	15.2	14.0	14.6	14.5	15.1	15.5
x=4H y=8H	13.9	14.5	14.4	14.9	15.5	14.2	14.8	14.7	15.3	15.8
x=4H y=12H	14.2	14.7	14.7	15.2	15.7	14.5	15.0	15.0	15.5	16.0
x=8H y=4H	13.3	13.9	13.8	14.4	14.9	13.6	14.2	14.1	14.6	15.1
x=8H y=6H	14.1	14.6	14.7	15.1	15.7	14.4	14.9	15.0	15.4	16.0
x=8H y=8H	14.5	14.9	15.1	15.4	16.0	14.8	15.2	15.3	15.7	16.3
x=8H y=12H	14.9	15.2	15.4	15.8	16.4	15.1	15.5	15.7	16.0	16.6
x=12H y=4H	13.4	13.9	13.9	14.4	14.9	13.6	14.1	14.1	14.6	15.1
x=12H y=6H	14.2	14.6	14.8	15.2	15.7	14.5	14.9	15.0	15.4	16.0
x=12H y=8H	14.7	15.0	15.2	15.6	16.2	14.9	15.3	15.5	15.8	16.4

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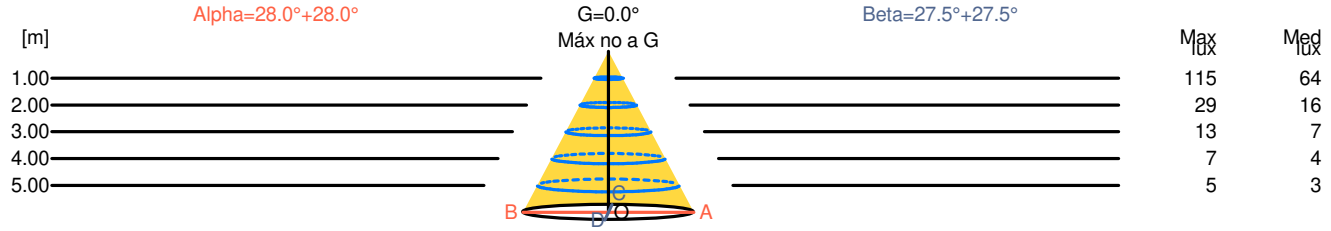
Flujo Luminaria	157 lm	Potencia Luminaria	5.0 W	Eficacia	31.400 lm/W	Eficiencia	100.00%
Flujo Fuente	157 lm	Valor Máximo	116.54 cd	Posición	C=75.00 G=5.00	CG	Bisimétrico

Apertura a 50.00 % de Max Intensidad

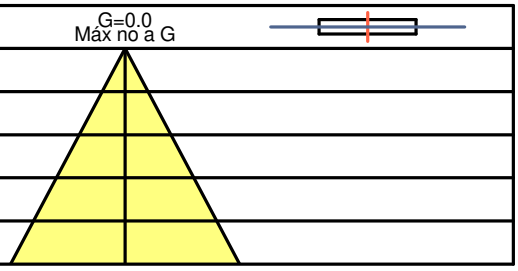
H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	0.53	1.06	1.59	2.12	2.65	OC	0.52	1.04	1.56	2.09	2.61
OB	0.53	1.06	1.59	2.12	2.65	OD	0.52	1.04	1.56	2.09	2.61

Intensidades Luminosas [cd]

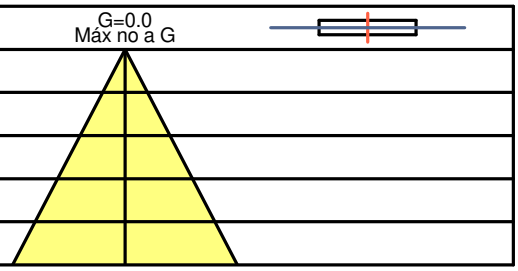
	0	5	15	25	35	45	55	65	75	85
OA	114.66	116.06	101.91	68.13	34.71	21.87	16.89	12.11	7.68	4.41
OB	114.66	116.06	101.91	68.13	34.71	21.87	16.89	12.11	7.68	4.41
OC	114.66	116.53	102.80	68.80	30.78	21.80	17.62	13.12	8.30	4.49
OD	114.66	116.53	102.80	68.80	30.78	21.80	17.62	13.12	8.30	4.49



H[m]	D[m]	Max lux	Med lux	Alpha=28.0°+28.0°
1.00	1.06	115	64	
2.00	2.12	29	16	
3.00	3.18	13	7	
4.00	4.25	7	4	
5.00	5.31	5	3	



H[m]	D[m]	Max lux	Med lux	Beta=27.5°+27.5°
1.00	1.04	115	64	
2.00	2.09	29	16	
3.00	3.13	13	7	
4.00	4.17	7	4	
5.00	5.21	5	3	



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Flujo Fuente	157 lm	Valor Máximo	116.54 cd	Posición	C=75.00 G=5.00	CG	Bisimétrico

Flujo Total=157.00 Flujo Luminaria=157.00

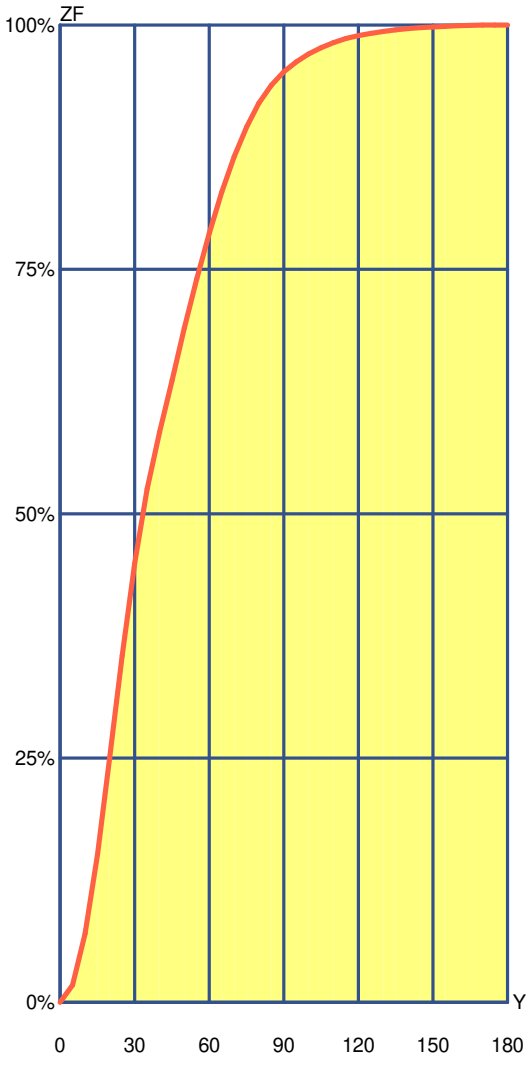
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.44	0.51	0.57	0.63	0.67	0.74	0.79	0.82	0.86	0.89	0.94	0.97
RC	3	3	3	3	3	3	3	3	3	3	3	3

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)	70	251	449	584	690	787	865	920	952	971	982	989	994	996	998	999	1000	1000

Códigos de Flujo C.I.E.
63 83 94 95 100

C.I.E.	3	LOR	100.00000 %
D DIN 5040	A51	ULOR	4.79402 %
F UTE	0.95 C + 0.05 T	DLOR	95.20598 %
B NBN	BZ 2 / 1 / BZ 3 / 4 / BZ 4	UFF	4.79402 %
RN	4.79402 %	DFF	95.20598 %
BLF	1.0	FFR	5.03542 %



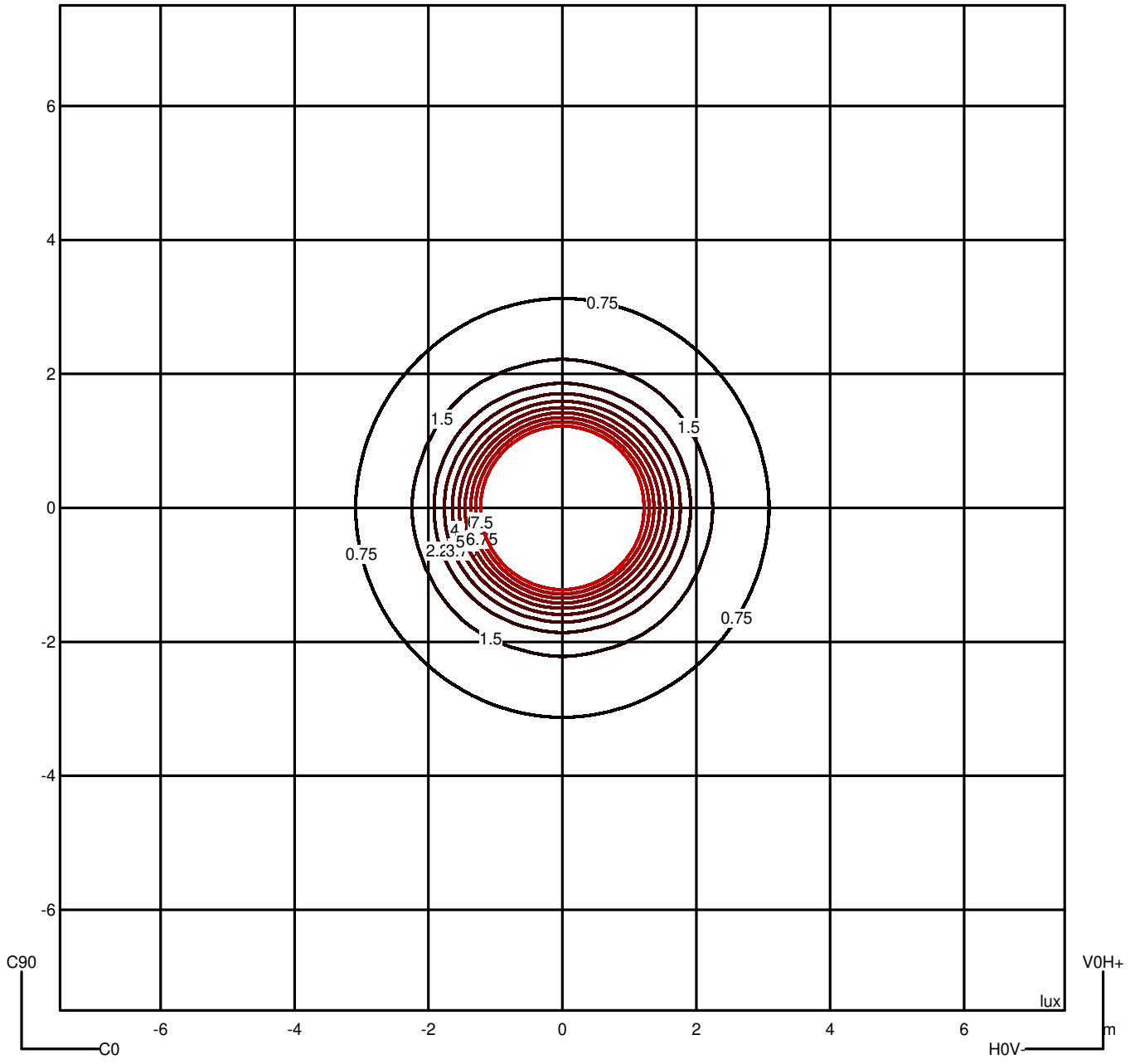
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	17.59	17.59	1.76 %	1.76 %
10°	52.55	70.14	5.26 %	7.01 %
15°	81.10	151.25	8.11 %	15.12 %
20°	99.39	250.64	9.94 %	25.06 %
25°	103.97	354.61	10.40 %	35.46 %
30°	94.51	449.12	9.45 %	44.91 %
35°	76.27	525.38	7.63 %	52.54 %
40°	58.16	583.55	5.82 %	58.35 %
45°	53.03	636.58	5.30 %	63.66 %
50°	53.20	689.78	5.32 %	68.98 %
55°	50.38	740.16	5.04 %	74.02 %
60°	46.73	786.89	4.67 %	78.69 %
65°	42.11	829.00	4.21 %	82.90 %
70°	36.50	865.50	3.65 %	86.55 %
75°	30.33	895.83	3.03 %	89.58 %
80°	24.14	919.97	2.41 %	92.00 %
85°	18.43	938.40	1.84 %	93.84 %
90°	13.66	952.06	1.37 %	95.21 %
95°	10.43	962.49	1.04 %	96.25 %
100°	8.06	970.55	0.81 %	97.05 %
105°	6.37	976.92	0.64 %	97.69 %
110°	5.15	982.07	0.52 %	98.21 %
115°	4.06	986.14	0.41 %	98.61 %
120°	3.11	989.24	0.31 %	98.92 %
125°	2.40	991.65	0.24 %	99.16 %
130°	1.92	993.57	0.19 %	99.36 %
135°	1.55	995.12	0.16 %	99.51 %
140°	1.24	996.36	0.12 %	99.64 %
145°	1.02	997.38	0.10 %	99.74 %
150°	0.83	998.21	0.08 %	99.82 %
155°	0.65	998.86	0.07 %	99.89 %
160°	0.48	999.34	0.05 %	99.93 %
165°	0.33	999.68	0.03 %	99.97 %
170°	0.20	999.88	0.02 %	99.99 %
175°	0.10	999.97	0.01 %	100.00 %
180°	0.03	1000.00	0.00 %	100.00 %

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Flujo Fuente	157 lm	Valor Máximo	116.54 cd	Posición	C=75.00 G=5.00	CG	Bisimétrico

Isolux (Suelo)

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



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Datos Espectrales

Std.: No import standard

CIE1931	x =0.510869	y =0.415397
CIE1960	u =0.293475	v =0.357945
CIE1976	u'=0.293475	v'=0.536918
D(u,v)	0.00013	

Índice repr. Cromática (CRI)
Comp.Reproducción Cromática

CCT = [2152 K]*

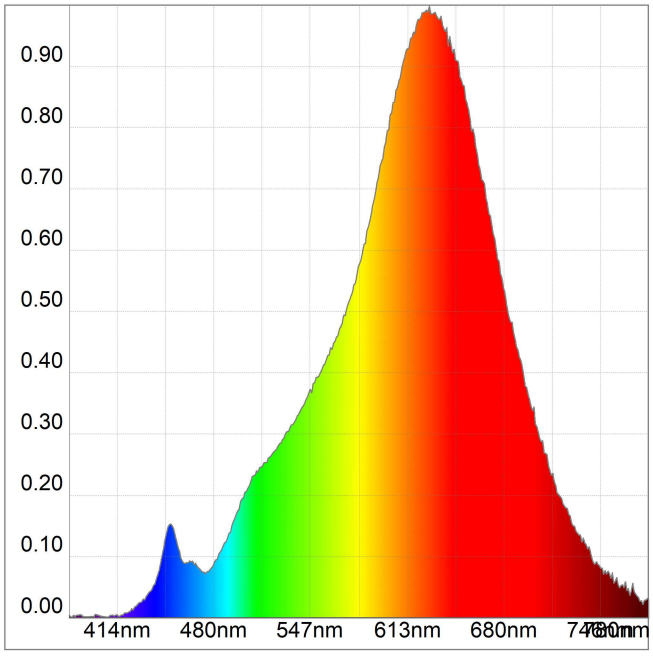
CRI8(Ra) [93.2]* CRI15(Rav) [91.6]*

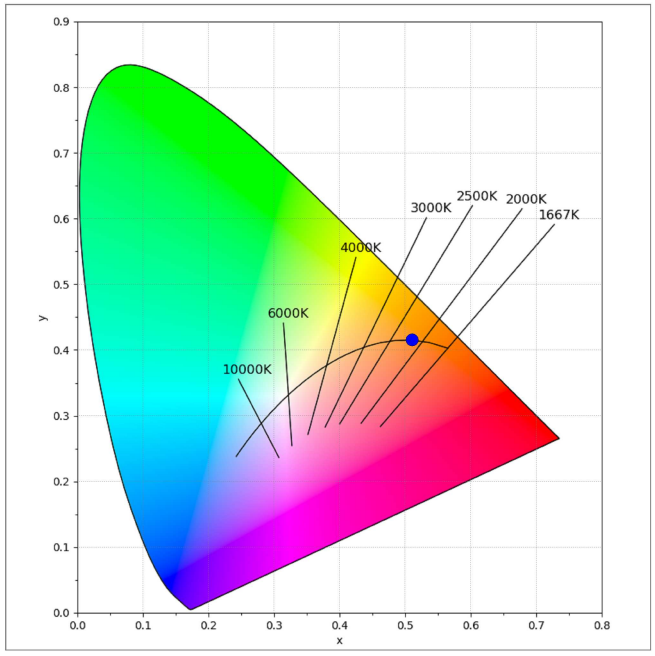
R 1: 94.1	R 2: 98.3	R 3: 98.3	R 4: 95.0	R 5: 95.0
R 6: 96.9	R 7: 89.3	R 8: 78.4	R 9: 56.8	R10: 95.9
R11: 98.6	R12: 95.4	R13: 95.5	R14: 99.3	R15: 87.8

Distribución Espectral

l(nm)	Potencia Radiante	l(nm)	Potencia Radiante	l(nm)	Potencia Radiante
381.0	0.003200	387.0	0.004067	393.0	0.001333
399.0	0.005500	405.0	0.001520	411.0	0.004100
417.0	0.004400	423.0	0.009800	429.0	0.024400
435.0	0.037900	441.0	0.063300	447.0	0.128000
453.0	0.145000	459.0	0.092300	465.0	0.090900
471.0	0.079200	477.0	0.075300	483.0	0.095400
489.0	0.124000	495.0	0.162000	501.0	0.196000
507.0	0.230000	513.0	0.246000	519.0	0.262000
525.0	0.281000	531.0	0.304000	537.0	0.323000
543.0	0.349000	549.0	0.382000	555.0	0.405000
561.0	0.441000	567.0	0.471000	573.0	0.512000
579.0	0.558000	585.0	0.611000	591.0	0.683000
597.0	0.750000	603.0	0.824000	609.0	0.882000
615.0	0.930000	621.0	0.976000	627.0	0.992000
633.0	0.988000	639.0	0.961000	645.0	0.922000
651.0	0.878000	657.0	0.815000	663.0	0.739000
669.0	0.675000	675.0	0.602000	681.0	0.531000
687.0	0.465000	693.0	0.409000	699.0	0.345000
705.0	0.292000	711.0	0.248000	717.0	0.203000
723.0	0.179000	729.0	0.149000	735.0	0.130000
741.0	0.096200	747.0	0.081000	753.0	0.071800
759.0	0.053500	765.0	0.044000	771.0	0.038900
777.0	0.028400				

Gráfico del Espectro

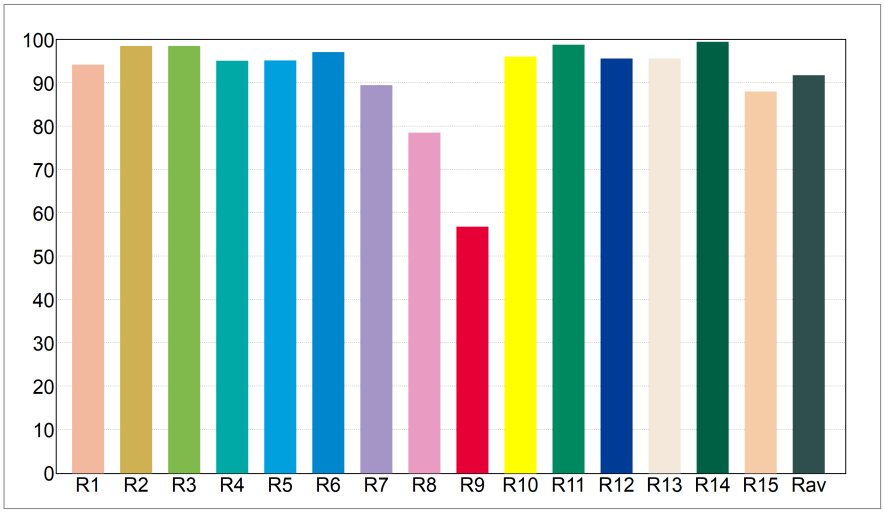


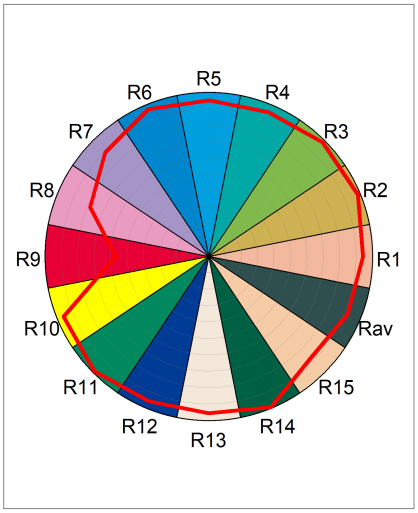


Luminaria
Código 37803318190
Nombre KANDO M40R 2200K CREAM RIBBON
Ensayo
Código CL092A24D014GPE1
Nombre KANDO M40R 2200K CREAM RIBBON

Flujo Luminaria	157 lm	Potencia Luminaria	5.0 W	Eficacia	31.400 lm/W	Eficiencia	100.00%
Flujo Fuente	157 lm	Valor Máximo	116.54 cd	Posición	C=75.00 G=5.00	CG	Bisimétrico

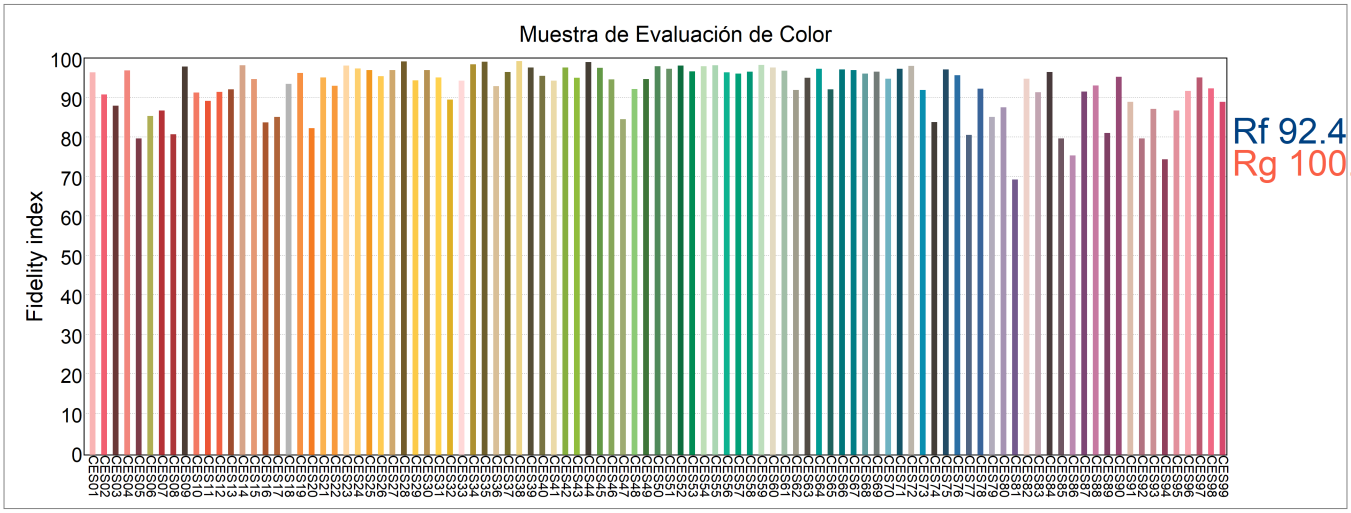
Gráficos del IRC





Luminaria
Código 37803318190
Nombre KANDO M40R 2200K CREAM RIBBON
Ensayo
Código CL092A24D014GPE1
Nombre KANDO M40R 2200K CREAM RIBBON

Flujo Luminaria	157 lm	Potencia Luminaria	5.0 W	Eficacia	31.400 lm/W	Eficiencia	100.00%
Flujo Fuente	157 lm	Valor Máximo	116.54 cd	Posición	C=75.00 G=5.00	CG	Bisimétrico



Coordenadas de Cromaticidad (a' b') 99 muestras

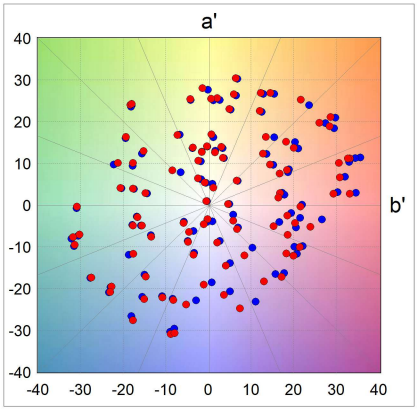


Gráfico Vectorial de Color

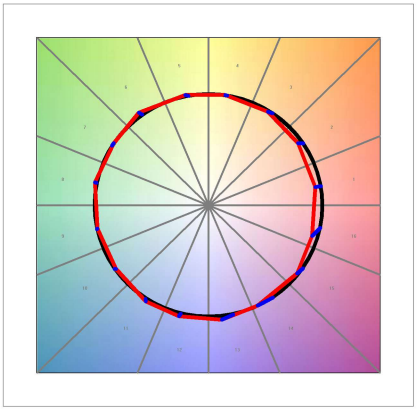


Gráfico de Distorsión de Color

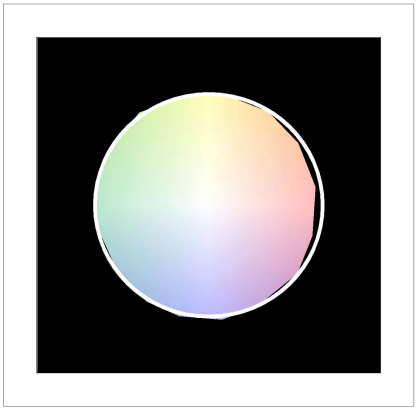


Diagrama Rf vs Rg

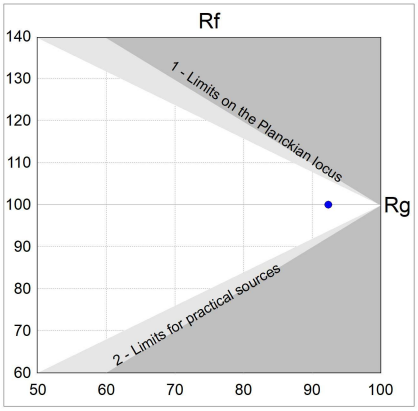
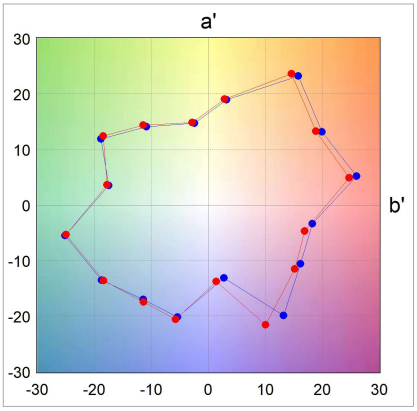


Diagrama Gamut



Cambios por Bin

