

**Luminaria**

Código 1850

Nombre ARRAY PENDANT

**Ensayo**

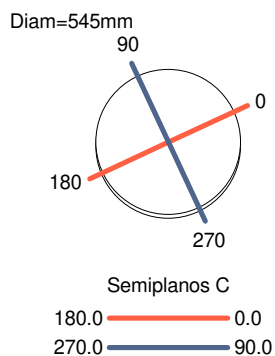
Código CL252A23F002GE5

Nombre LED STRIP FLEX 48V 20W 2700K CRI90

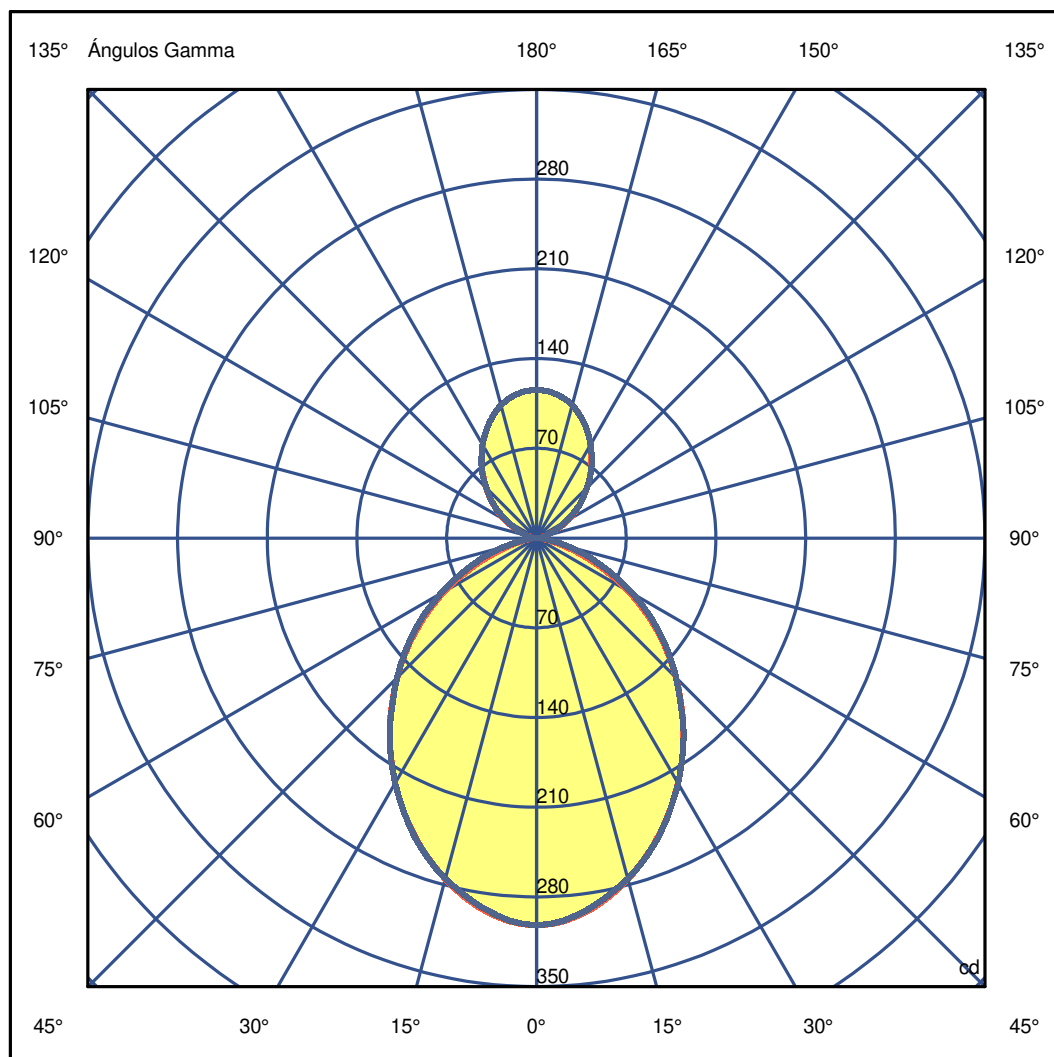
Flujo Luminaria	889 lm	Potencia Luminaria	33.0 W	Eficacia	26.935 lm/W	Eficiencia	100.00%
Flujo Fuente	889 lm	Valor Máximo	301.92 cd	Posición	C=0.00 G=0.00	CG	Bisimétrico
Luminaria Redonda		Diam.	545 mm	Altura	30 mm		
Área Luminosa Redonda		Diam.	535 mm	Altura	0 mm		
Área Luminosa Horizontal		0.224801 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°		0.054384 m2	
Sist. de Coord.		CG		Tipo de Simetría		Bisimétrico	
Fecha		23-10-2023		Máximo Ángulo Gamma		180	
Distancia de Ensayo		6.50		Flujo de Ensayo		593 lm	
Operador		ASSELUM		Tensión Nominal			
Temperatura		25.20 °C		Corriente Nominal			
Humedad		53.30 %		Fotocélula			
Notas		RM23101801					Czibula Grundmann

**Fuentes de luz de la Luminaria**

Familia	Código	Nombre	Flujo [lm]	Pot. [W]	Cant.
	x1.65 metros	5753763 =33WLED	888.86	33.00	1
C.I.E.	55 85 97 74 100				
F UTE	0.74 D + 0.26 T				
		D DIN 5040 B NBN	B41 BZ 3		



ULOR 26.40 %  
DLOR 73.60 %  
RN 26.40 %



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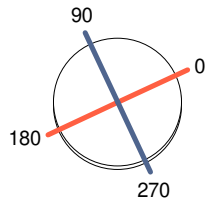
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Flujo Luminaria	889 lm	Potencia Luminaria	33.0 W	Eficacia	26.935 lm/W	Eficiencia	100.00%
Flujo Fuente	889 lm	Valor Máximo	301.92 cd	Posición	C=0.00 G=0.00	CG Bisimétrico	
Tabla de Intensidad Luminosa cd				Tabla 1/1			
	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	301.92	301.92	301.92	301.92	301.92	301.92	301.92
G 2.5	301.00	300.95	300.86	300.77	300.70	300.65	300.65
G 5.0	298.38	298.26	298.06	297.89	297.73	297.60	297.57
G 7.5	294.28	294.12	293.90	293.62	293.27	293.02	292.95
G 10.0	288.93	288.80	288.66	288.30	287.93	287.73	287.68
G 12.5	282.53	282.53	282.56	282.21	281.84	281.55	281.47
G 15.0	275.31	275.51	275.73	275.38	275.13	275.04	274.99
G 17.5	267.46	267.84	268.11	268.00	268.00	267.73	267.58
G 20.0	259.05	259.57	259.80	260.07	259.99	259.50	259.39
G 22.5	250.12	250.70	250.96	251.41	251.01	250.70	250.53
G 25.0	240.72	241.25	241.60	241.98	241.64	241.15	240.77
G 27.5	230.88	231.29	231.63	231.76	231.82	231.23	230.90
G 30.0	220.66	220.90	221.12	221.27	221.55	221.13	220.72
G 32.5	210.08	210.21	210.33	210.69	211.10	210.71	210.10
G 35.0	199.21	199.30	199.40	199.77	200.29	199.98	199.48
G 37.5	188.08	188.19	188.32	188.70	189.43	189.13	188.31
G 40.0	176.75	176.91	177.08	177.65	178.34	178.28	175.86
G 42.5	165.27	165.47	165.74	166.48	167.22	166.00	164.76
G 45.0	153.69	153.91	154.37	155.25	156.10	151.89	153.89
G 47.5	142.04	142.27	142.98	144.01	144.84	139.04	142.76
G 50.0	130.32	130.60	131.56	132.73	133.70	127.41	131.84
G 52.5	118.51	118.91	120.11	121.37	122.83	115.94	120.75
G 55.0	106.62	107.19	108.62	109.97	110.94	104.03	109.34
G 57.5	94.61	95.41	97.11	98.64	98.20	92.11	97.83
G 60.0	82.47	83.54	85.59	87.41	86.83	83.20	86.52
G 62.5	70.26	71.57	74.08	76.27	76.97	74.14	74.99
G 65.0	58.26	59.71	62.61	65.29	67.64	63.75	63.90
G 67.5	46.81	48.29	51.40	54.61	57.68	54.10	53.61
G 70.0	36.26	37.69	40.80	44.40	47.59	45.81	44.56
G 72.5	26.95	28.24	31.15	34.85	38.30	38.37	34.76
G 75.0	19.24	20.29	22.80	26.22	29.94	30.89	26.27
G 77.5	13.35	14.14	16.04	18.78	22.12	23.28	19.50
G 80.0	9.09	9.66	10.99	12.86	15.02	15.91	12.69
G 82.5	6.12	6.51	7.40	8.56	9.38	10.00	7.32
G 85.0	4.14	4.38	4.91	5.59	5.92	6.54	4.29
G 87.5	2.82	2.96	3.23	3.61	3.86	4.44	2.45
G 90.0	1.85	1.91	2.03	2.30	2.64	2.89	2.51
G 92.5	2.10	1.91	1.94	2.12	2.31	2.34	0.80
G 95.0	2.44	2.06	2.08	2.28	2.35	2.18	0.91
G 97.5	2.92	2.43	2.49	2.80	2.86	2.29	1.66
G100.0	3.59	3.12	3.24	3.72	3.95	3.00	3.22
G102.5	4.52	4.21	4.39	5.06	5.46	4.43	5.21
G105.0	5.75	5.86	6.25	6.84	7.20	6.06	6.98
G107.5	8.37	8.47	8.75	9.08	9.23	7.84	9.18
G110.0	11.64	11.69	11.81	11.81	11.86	10.49	11.69
G112.5	15.43	15.40	15.34	15.05	15.15	13.58	14.70
G115.0	19.59	19.49	19.28	18.80	18.78	17.01	18.22
G117.5	24.00	23.84	23.51	22.96	22.57	20.65	22.32
G120.0	28.51	28.31	27.96	27.45	26.70	24.58	26.93
G122.5	33.02	32.82	32.54	32.19	31.40	29.00	31.44
G125.0	37.52	37.36	37.21	37.04	36.66	33.83	36.41
G127.5	42.02	41.92	41.91	41.88	41.95	39.16	41.32
G130.0	46.55	46.50	46.62	46.68	46.82	44.35	46.15
G132.5	51.11	51.12	51.30	51.43	51.52	49.32	50.78
G135.0	55.74	55.78	55.98	56.11	56.26	54.66	55.31
G137.5	60.43	60.48	60.67	60.80	60.92	60.59	60.57
G140.0	65.16	65.21	65.37	65.47	65.68	65.58	65.55
G142.5	69.92	69.95	70.08	70.16	70.41	70.20	70.33
G145.0	74.66	74.68	74.80	74.90	75.04	74.99	74.84
G147.5	79.36	79.38	79.51	79.59	79.61	79.70	79.56
G150.0	83.98	84.01	84.13	84.20	84.31	84.20	84.20
G152.5	88.51	88.53	88.62	88.68	88.78	88.65	88.61
G155.0	92.87	92.88	92.96	92.99	93.00	92.98	92.95
G157.5	97.00	97.00	97.09	97.12	97.06	96.99	96.95
G160.0	100.83	100.82	100.91	100.92	100.82	100.81	100.83
G162.5	104.30	104.28	104.34	104.30	104.32	104.22	104.20
G165.0	107.34	107.32	107.34	107.31	107.26	107.32	107.34
G167.5	109.89	109.87	109.86	109.88	109.81	109.77	109.77
G170.0	111.96	111.95	111.93	111.95	111.94	111.92	111.91
G172.5	113.55	113.54	113.53	113.53	113.54	113.55	113.55
G175.0	114.68	114.67	114.67	114.66	114.66	114.66	114.67
G177.5	115.35	115.34	115.34	115.33	115.33	115.33	115.33
G180.0	115.57	115.57	115.57	115.57	115.57	115.57	115.57

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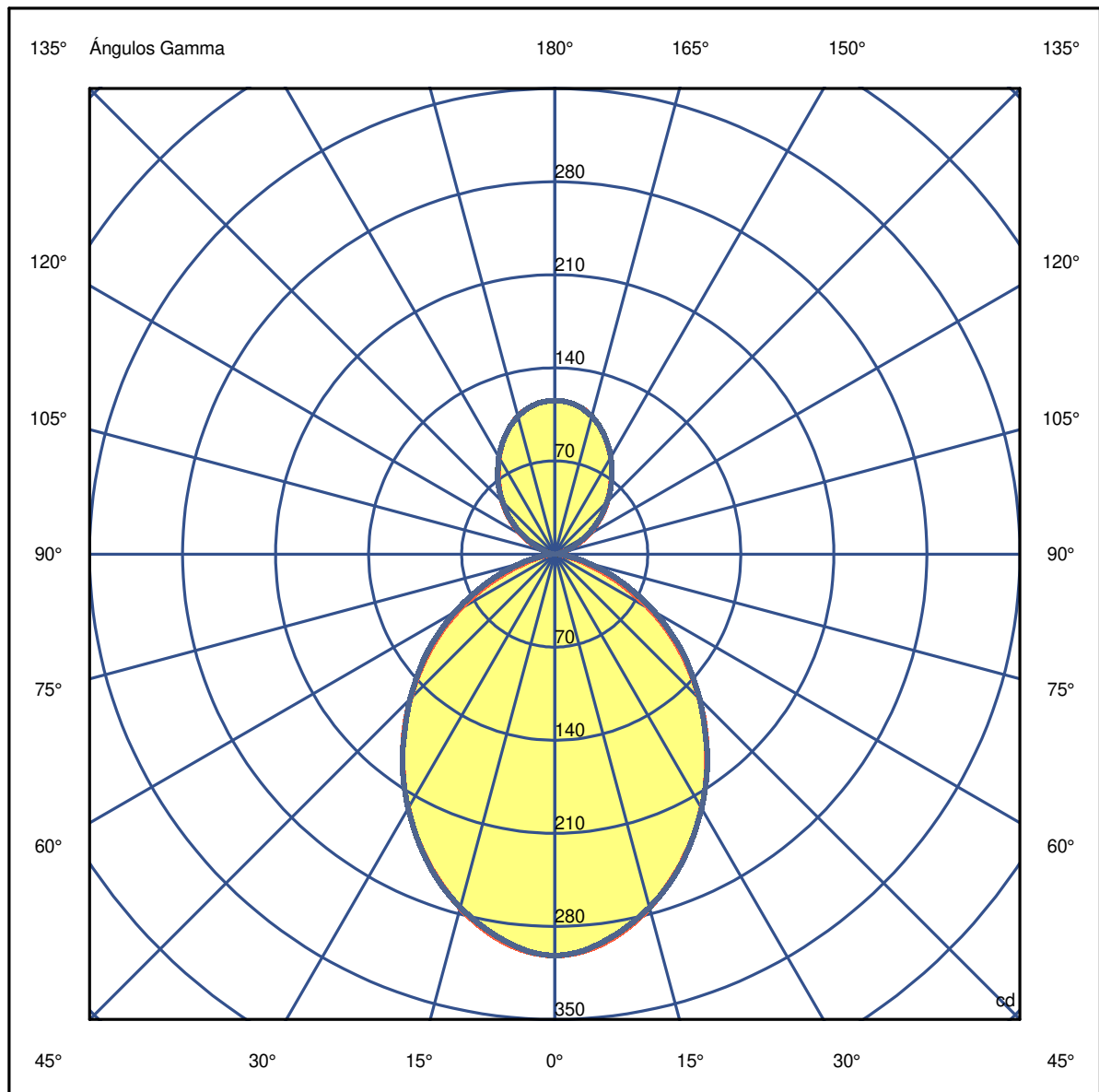
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Flujo Fuente	889 lm	Valor Máximo	301.92 cd	Posición	C=0.00 G=0.00	CG	Bisimétrico

Diam=545mm



Semiplanos C

180.0 ————— 0.0  
270.0 ————— 90.0



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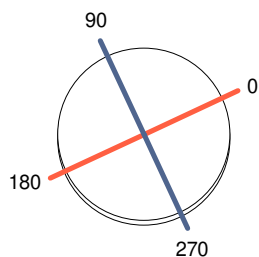
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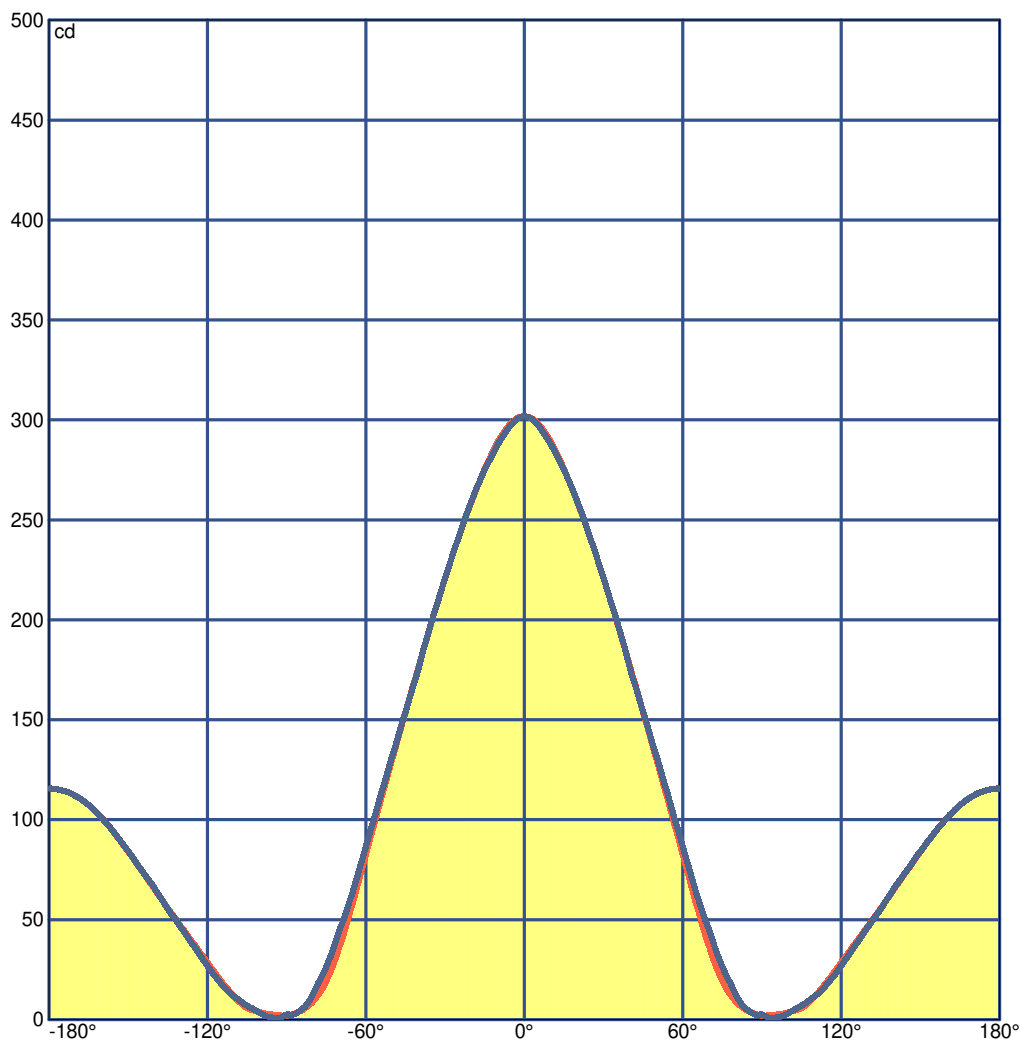
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Diam=545mm



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Flujo Fuente	889 lm	Valor Máximo	301.92 cd	Posición	C=0.00 G=0.00	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 Local										
	Vista Lateral					Vista Longitudinal				
x=2H y=2H	10.0	11.0	10.7	11.6	12.3	10.1	11.0	10.7	11.7	12.4
x=2H y=3H	10.8	11.7	11.5	12.3	13.1	11.1	12.0	11.8	12.6	13.4
x=2H y=4H	11.0	11.7	11.6	12.4	13.2	11.5	12.3	12.2	12.9	13.7
x=2H y=6H	11.0	11.7	11.7	12.4	13.2	11.6	12.4	12.4	13.1	13.9
x=2H y=8H	11.0	11.7	11.7	12.4	13.2	11.7	12.3	12.4	13.0	13.9
x=2H y=12H	10.9	11.6	11.7	12.3	13.1	11.6	12.3	12.4	13.0	13.8
x=4H y=2H	10.5	11.3	11.2	11.9	12.7	10.5	11.3	11.2	12.0	12.8
x=4H y=3H	11.4	12.0	12.1	12.7	13.6	11.7	12.4	12.5	13.1	13.9
x=4H y=4H	11.6	12.2	12.4	12.9	13.8	12.2	12.8	13.0	13.5	14.4
x=4H y=6H	11.7	12.2	12.5	12.9	13.8	12.5	13.0	13.3	13.7	14.6
x=4H y=8H	11.7	12.1	12.5	12.9	13.8	12.5	13.0	13.3	13.8	14.7
x=4H y=12H	11.7	12.1	12.5	12.9	13.8	12.5	12.9	13.3	13.7	14.7
x=8H y=4H	11.7	12.2	12.5	12.9	13.8	12.3	12.7	13.1	13.5	14.4
x=8H y=6H	11.8	12.2	12.6	13.0	14.0	12.6	13.0	13.4	13.8	14.8
x=8H y=8H	11.9	12.2	12.7	13.0	14.0	12.7	13.0	13.5	13.9	14.8
x=8H y=12H	11.9	12.1	12.7	13.0	14.0	12.8	13.0	13.6	13.9	14.9
x=12H y=4H	11.7	12.1	12.5	12.9	13.8	12.2	12.6	13.0	13.4	14.4
x=12H y=6H	11.8	12.1	12.7	13.0	13.9	12.6	12.9	13.4	13.7	14.7
x=12H y=8H	11.9	12.1	12.7	13.0	14.0	12.7	13.0	13.6	13.8	14.8

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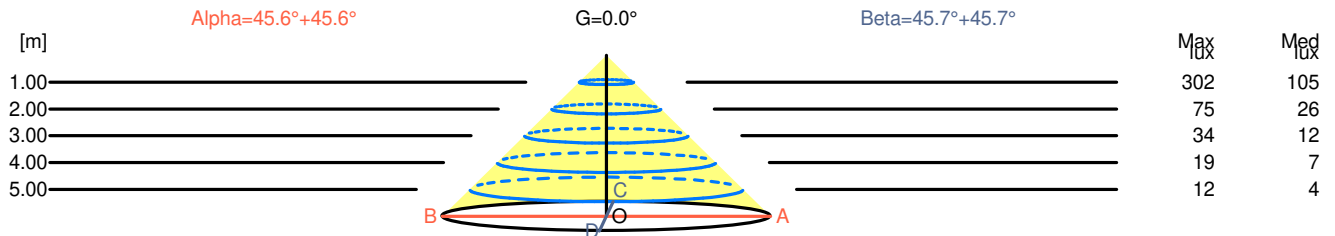
Nombre LED STRIP FLEX 48V 20W 2700K CRI90

Flujo Luminaria	889 lm	Potencia Luminaria	33.0 W	Eficacia	26.935 lm/W	Eficiencia	100.00%
Flujo Fuente	889 lm	Valor Máximo	301.92 cd	Posición	C=0.00 G=0.00	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	1.02	2.04	3.06	4.08	5.10	OC	1.02	2.05	3.07	4.09	5.12
OB	1.02	2.04	3.06	4.08	5.10	OD	1.02	2.05	3.07	4.09	5.12

	0	5	15	25	35	45	55	65	75	85
OA	301.92	298.38	275.31	240.72	199.21	153.69	106.62	58.26	19.24	4.14
OB	301.92	298.38	275.31	240.72	199.21	153.69	106.62	58.26	19.24	4.14
OC	301.92	297.57	274.99	240.77	199.48	153.89	109.34	63.90	26.27	4.29
OD	301.92	297.57	274.99	240.77	199.48	153.89	109.34	63.90	26.27	4.29



H[m]	D[m]	Max lux	Med lux	Alpha=45.6°+45.6°	G=0.0	
1.00	2.04	302	105			
2.00	4.08	75	26			
3.00	6.12	34	12			
4.00	8.17	19	7			
5.00	10.21	12	4			

H[m]	D[m]	Max lux	Med lux	Beta=45.7°+45.7°	G=0.0	
1.00	2.05	302	105			
2.00	4.09	75	26			
3.00	6.14	34	12			
4.00	8.19	19	7			
5.00	10.23	12	4			

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Flujo Total=888.86 Flujo Luminaria=888.86

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	0.36	0.45	0.52	0.59	0.65	0.73	0.78	0.82	0.86	0.89	0.94	0.97
RC	4	4	4	4	4	4	3	3	3	3	3	3

Flujo Zonal por 1000 Lúmenes

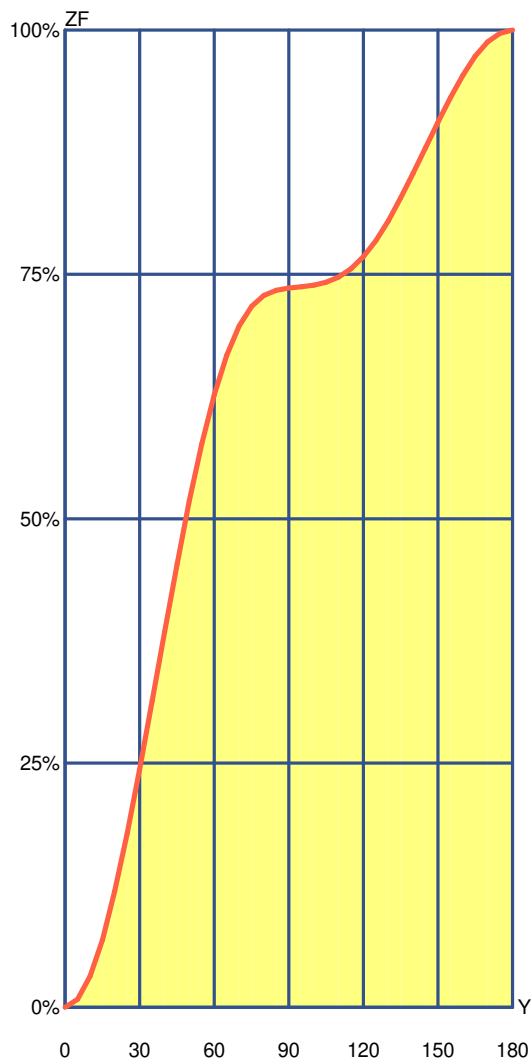
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	32	119	244	384	518	627	697	729	736	739	747	768	805	853	906	954	988	1000

Códigos de Flujo C.I.E.

55 85 97 74 100

C.I.E. 4/4/4/4/4/3/3/3/3/3  
D DIN 5040 B41  
F UTE 0.74 D + 0.26 T  
B NBN BZ 3  
RN 26.40045 %  
BLF 1.0

LOR 100.00000 %  
ULOR 26.40045 %  
DLOR 73.59955 %  
UFF 26.40045 %  
DFF 73.59955 %  
FFR 35.87040 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00 %	0.00 %
5°	8.07	8.07	0.81 %	0.81 %
10°	23.58	31.65	2.36 %	3.16 %
15°	37.59	69.24	3.76 %	6.92 %
20°	49.59	118.83	4.96 %	11.88 %
25°	59.11	177.93	5.91 %	17.79 %
30°	65.81	243.75	6.58 %	24.37 %
35°	69.67	313.42	6.97 %	31.34 %
40°	70.75	384.17	7.07 %	38.42 %
45°	69.06	453.23	6.91 %	45.32 %
50°	64.80	518.03	6.48 %	51.80 %
55°	58.53	576.56	5.85 %	57.66 %
60°	50.13	626.69	5.01 %	62.67 %
65°	40.59	667.28	4.06 %	66.73 %
70°	30.11	697.39	3.01 %	69.74 %
75°	19.91	717.30	1.99 %	71.73 %
80°	11.27	728.57	1.13 %	72.86 %
85°	5.19	733.76	0.52 %	73.38 %
90°	2.23	736.00	0.22 %	73.60 %
95°	1.30	737.30	0.13 %	73.73 %
100°	1.61	738.91	0.16 %	73.89 %
105°	2.90	741.82	0.29 %	74.18 %
110°	5.19	747.01	0.52 %	74.70 %
115°	8.56	755.57	0.86 %	75.56 %
120°	12.49	768.05	1.25 %	76.81 %
125°	16.50	784.55	1.65 %	78.46 %
130°	20.23	804.78	2.02 %	80.48 %
135°	23.15	827.93	2.31 %	82.79 %
140°	25.23	853.16	2.52 %	85.32 %
145°	26.31	879.47	2.63 %	87.95 %
150°	26.32	905.79	2.63 %	90.58 %
155°	25.20	930.99	2.52 %	93.10 %
160°	22.86	953.85	2.29 %	95.39 %
165°	19.30	973.15	1.93 %	97.32 %
170°	14.63	987.78	1.46 %	98.78 %
175°	9.12	996.90	0.91 %	99.69 %
180°	3.10	1000.00	0.31 %	100.00 %

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Flujo Fuente	889 lm	Valor Máximo	301.92 cd	Posición	C=0.00 G=0.00	CG	Bisimétrico

Isolux (Suelo)

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

