

# Luminaria

Código TAM TAM MINI  
Nombre TAM TAM 5x8W FBT+3 satel opal

## Ensayo

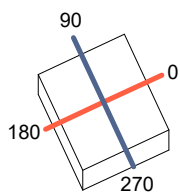
Código TAM TAM MINI  
Nombre TAM TAM 5x8W FBT+3 satel opal

Flujo Luminaria	1868.37 lm	Potencia Luminaria	40.00 W	Eficacia	46.71 lm/W	Eficiencia	46.36%	
Flujo Fuentes de luz	4030.00 lm	Valor Máximo	610.61 cd	Posición	C=90.00 G=5.00	CG	Asimétrico	
Luminaria Rectangular	Longit.	700 mm	Longit.	690 mm	Anchora	630 mm	Altura	200 mm
Área Luminosa Rectangular					Anchora	320 mm	Altura	0 mm
Área Luminosa Horizontal	0.220800 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°	0.053416 m2		
Sist. de Coordn.	CG				Tipo de Simetría	Asimétrico		
Fecha	07-02-2013				Máximo Ángulo Gamma	180		
Distancia de Ensayo	0.00				Flujo de Ensayo	3000.00 lm		
Operador	Asselum T2				Tensión Nominal			
Temperatura	25.00 °C				Corriente Nominal			
Humedad	60.00 %				Fotocélula			
Notas								

## Fuentes de luz de la Luminaria

Familia	Código	Nombre	Flujo [lm]	Pot. [W]	Cant.
	Philips Corepro LEDbulb E27	Philips Corepro LEDbulb E27 Pera Mate	806.00	8.00	5
C.I.E.	45 74 92 95 46	D DIN 5040	A31		
F UTE	0.44 E + 0.02 T	B NBN	BZ 5		

700mm x 630mm



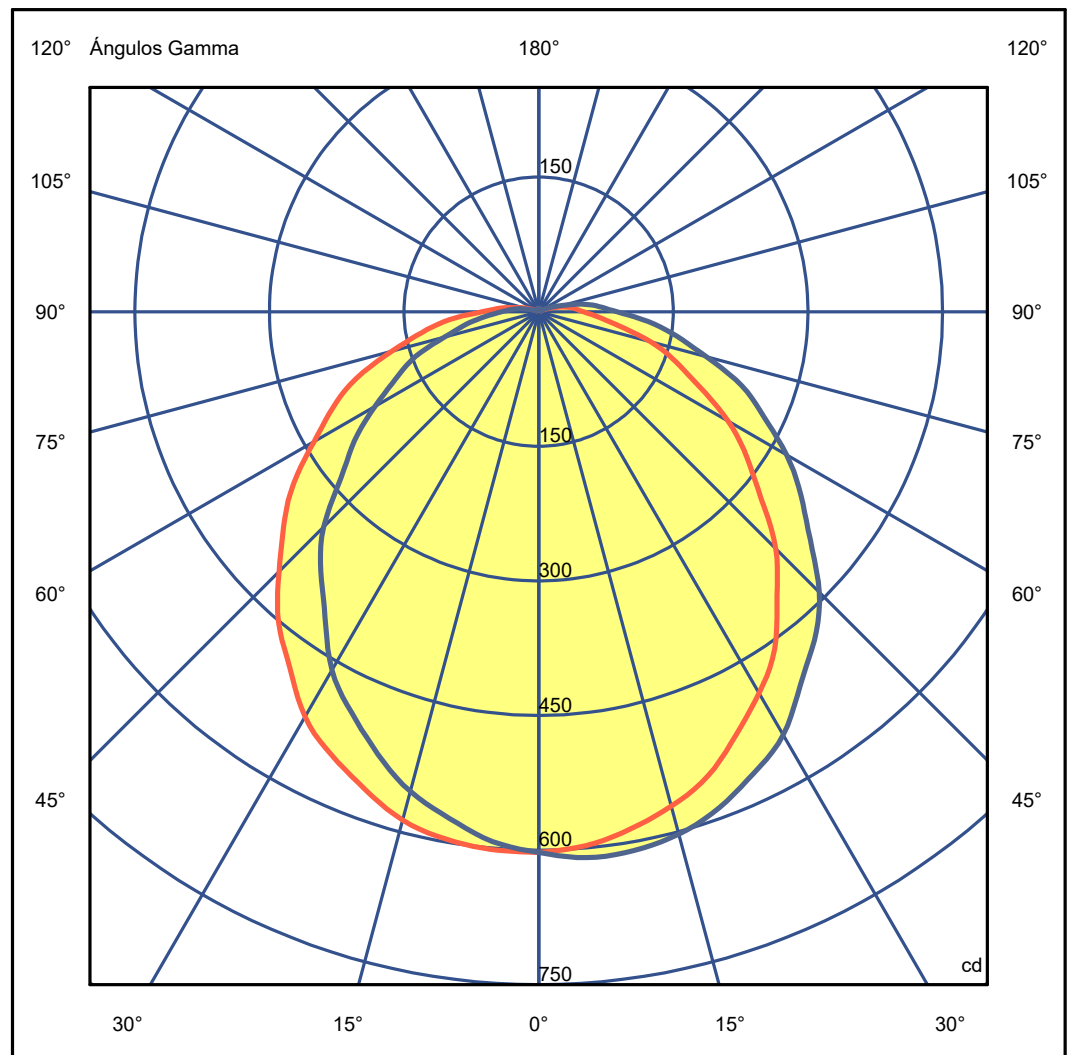
Semiplanos C

180.0 — 0.0  
270.0 — 90.0

ULOR 2.14 %

DLOR 44.22 %

RN 4.62 %



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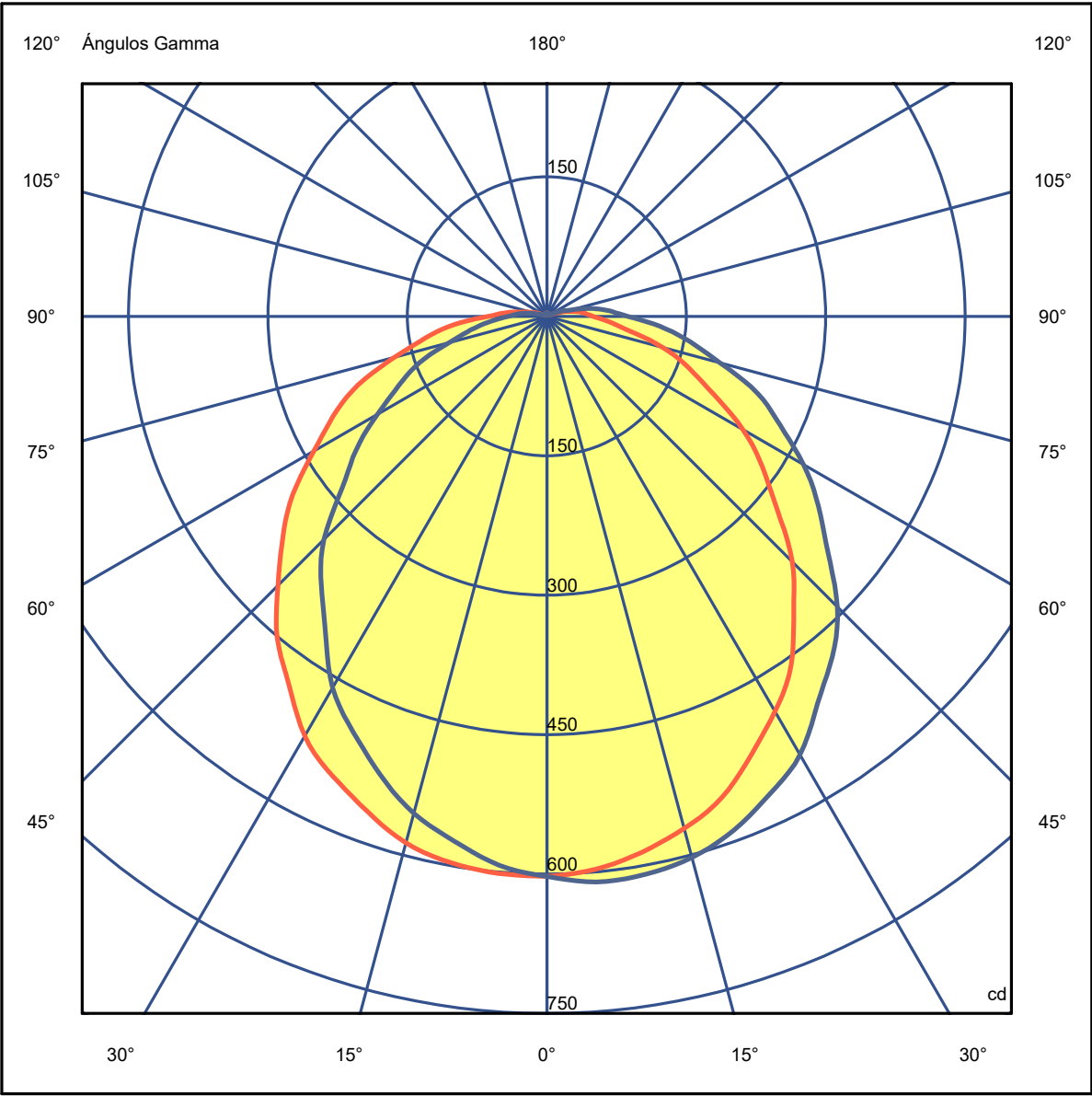
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Flujo Fuentes de luz	4030.00 lm		Valor Máximo		610.61 cd		Posición		C=90.00 G=5.00		CG Asimétrico			
Tabla de Intensidad Luminosa cd Tabla 1/1														
	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00	C 105.00	C 120.00	C 135.00	C 150.00	C 165.00		
G 0.0	602.33	602.33	602.33	602.33	602.33	602.33	602.33	602.33	602.33	602.33	602.33	602.33	602.33	
G 5.0	597.12	596.40	600.84	600.07	606.42	604.33	610.61	606.12	608.33	603.54	607.07	601.30		
G 10.0	585.49	582.50	593.91	592.32	603.07	598.93	609.58	601.72	607.72	599.34	604.34	594.71		
G 15.0	570.33	566.41	581.82	576.92	591.71	586.52	602.65	591.97	600.33	583.68	596.40	579.63		
G 20.0	550.58	545.28	561.02	559.39	577.81	570.16	588.02	571.61	586.49	565.91	582.13	561.66		
G 25.0	520.13	514.72	539.99	531.22	558.82	543.74	567.16	550.63	562.17	539.40	557.90	539.79		
G 30.0	490.72	485.03	515.65	504.91	530.47	518.44	544.59	522.57	538.57	510.01	533.57	506.13		
G 35.0	458.07	441.22	476.45	472.93	501.24	487.99	507.95	488.00	511.91	480.47	500.68	475.88		
G 40.0	412.99	405.90	442.60	430.11	469.92	445.80	477.62	455.07	472.67	437.03	466.56	437.84		
G 45.0	373.47	367.89	401.31	397.54	425.63	409.58	441.76	409.62	437.82	400.45	431.28	397.06		
G 50.0	323.28	320.54	364.79	365.31	394.49	372.43	394.65	370.27	390.58	361.64	383.20	358.13		
G 55.0	283.05	284.86	330.79	324.55	354.87	336.15	356.63	330.63	350.29	311.28	344.90	309.48		
G 60.0	243.48	248.20	286.29	289.09	321.43	302.57	318.66	280.64	307.94	268.72	303.03	271.67		
G 65.0	197.44	202.01	250.42	242.43	284.59	256.19	276.76	241.70	253.92	218.41	251.78	235.81		
G 70.0	162.39	163.98	213.88	203.56	238.56	219.57	240.78	200.80	210.63	172.63	212.16	188.86		
G 75.0	129.33	118.19	164.13	165.56	200.04	181.67	192.98	157.03	168.73	133.45	175.35	151.42		
G 80.0	90.74	87.66	126.28	119.97	163.25	137.58	156.00	121.77	121.99	90.90	127.73	112.70		
G 85.0	67.26	66.78	90.79	92.55	119.61	106.63	121.97	85.04	91.06	66.81	94.05	76.25		
G 90.0	49.87	53.04	68.02	72.87	93.06	81.39	87.26	65.94	65.20	52.47	64.56	53.82		
G 95.0	40.69	43.40	54.15	50.78	67.86	59.44	67.67	52.00	54.74	39.95	43.41	30.00		
G100.0	30.93	31.01	40.73	36.12	48.99	38.58	48.88	37.42	44.18	29.81	29.35	15.05		
G105.0	19.38	21.32	30.85	21.79	31.16	14.52	27.31	26.96	31.16	20.46	16.44	5.36		
G110.0	11.07	12.39	21.34	12.84	13.56	5.86	16.33	16.42	20.79	9.72	8.44	2.22		
G115.0	4.03	4.33	10.00	5.70	5.39	2.71	6.86	6.98	11.49	4.41	3.66	2.33		
G120.0	2.32	2.44	4.19	2.40	2.55	2.24	3.23	3.21	4.22	2.37	2.34	2.46		
G125.0	2.43	2.60	2.47	2.40	2.30	2.35	2.29	2.45	2.45	2.45	2.47	2.56		
G130.0	2.59	2.71	2.61	2.56	2.44	2.48	2.46	2.50	2.55	2.59	2.57	2.72		
G135.0	2.70	2.82	2.63	2.66	2.61	2.62	2.56	2.68	2.72	2.73	2.74	2.85		
G140.0	2.86	2.92	2.76	2.77	2.71	2.75	2.72	2.83	2.78	2.84	2.85	3.00		
G145.0	2.97	2.98	2.87	2.93	2.82	2.91	2.83	2.94	2.89	2.98	3.01	3.21		
G150.0	3.07	3.08	2.97	3.04	3.00	3.13	2.94	3.06	3.00	3.12	3.13	3.29		
G155.0	3.24	3.25	3.11	3.14	3.10	3.17	3.10	3.21	3.17	3.23	3.16	3.40		
G160.0	3.34	3.30	3.22	3.25	3.21	3.31	3.25	3.32	3.33	3.40	3.41	3.45		
G165.0	3.45	3.41	3.32	3.30	3.37	3.42	3.36	3.49	3.43	3.50	3.56	3.67		
G170.0	3.56	3.47	3.43	3.41	3.37	3.47	3.53	3.60	3.59	3.64	3.73	3.67		
G175.0	3.62	3.56	3.49	3.49	3.46	3.47	3.63	3.66	3.72	3.76	3.73	3.72		
G180.0	3.73	3.56	3.49	3.55	3.48	3.52	3.70	3.59	3.72	3.75	3.78	3.78		
	C 180.00	C 195.00	C 210.00	C 225.00	C 240.00	C 255.00	C 270.00	C 285.00	C 300.00	C 315.00	C 330.00	C 345.00		
G 0.0	602.33	602.33	602.33	602.33	602.33	602.33	602.33	602.33	602.33	602.33	602.33	602.33	602.33	
G 5.0	601.47	603.02	595.92	597.85	593.66	593.55	592.46	593.40	587.97	592.13	590.66	596.07		
G 10.0	596.62	596.08	583.21	588.34	580.21	581.46	573.26	577.82	571.76	580.00	574.90	585.24		
G 15.0	586.39	584.73	568.43	574.72	558.64	566.88	553.30	558.30	550.70	560.52	553.61	566.89		
G 20.0	566.30	563.57	548.76	552.24	536.48	539.85	524.56	535.62	518.13	532.76	521.10	543.45		
G 25.0	545.51	542.52	519.67	529.21	509.32	514.45	493.27	500.53	488.43	505.52	491.52	516.72		
G 30.0	521.18	517.39	492.07	498.01	475.20	481.35	461.10	469.68	453.77	464.58	458.86	478.86		
G 35.0	483.84	482.37	457.15	465.64	440.56	444.88	415.38	434.60	407.42	428.82	411.91	444.92		
G 40.0	451.40	449.29	417.15	431.74	396.13	409.64	377.78	388.49	368.08	391.61	371.75	408.13		
G 45.0	409.29	406.75	381.80	387.69	357.67	361.44	339.01	349.58	317.61	341.33	325.55	358.15		
G 50.0	371.24	369.30	336.76	349.52	309.09	322.42	287.91	309.47	277.54	300.00	278.71	315.85		
G 55.0	333.77	334.03	302.50	314.69	273.49	283.90	250.84	260.19	241.21	257.74	237.23	268.07		
G 60.0	289.35	289.81	268.41	270.01	240.58	238.98	210.84	226.07	195.07	213.32	188.30	221.59		
G 65.0	253.66	254.46	221.95	236.09	203.21	210.21	175.70	180.50	158.46	177.40	153.99	181.92		
G 70.0	216.38	218.33	186.02	194.49	174.03	179.51	146.39	145.68	120.74	129.81	118.91	142.39		
G 75.0	169.57	170.84	142.03	163.40	145.03	145.43	108.91	111.05	75.18	95.50	81.58	114.46		
G 80.0	132.32	133.58	112.78	134.26	109.89	116.87	82.93	75.06	42.89	61.06	55.68	86.51		
G 85.0	99.56	95.39	89.91	101.97	86.82	84.73	60.15	49.52	14.75	26.52	32.86	57.31		
G 90.0	63.65	71.09	70.79	82.53	68.45	65.40	41.68	30.39	4.98	9.15	19.55	41.72		
G 95.0	44.96	57.71	59.48	70.01	57.03	54.07	31.13	17.39	2.36	3.85	11.55	30.98		
G100.0	27.21	43.89	48.10	55.66	45.77	40.17	19.80	7.53	2.10	2.15	4.37	20.91		
G105.0	17.07	33.25	33.60	43.97	31.08	29.56	10.02	2.96	2.22	2.21	2.37	12.61		
G110.0	8.84	22.71	22.40	29.94	20.44	18.22	4.29	2.22	2.38	2.39	2.37	4.65		
G115.0	3.12	10.23	9.71	18.40	10.73	7.93	2.45	2.37	2.50	2.48	2.53	2.59		
G120.0	2.40	4.15	3.99	8.70	3.47	3.35	2.57	2.50	2.66	2.59	2.69	2.56		
G125.0	2.56	2.36	2.42	2.99	2.61	2.59	2.68	2.64	2.77	2.71	2.82	2.72		
G130.0	2.66	2.49	2.58	2.54	2.73	2.72	2.86	2.74	2.89	2.82	2.95	2.73		
G135.0	2.79	2.60	2.68	2.64	2.84	2.78	2.95	2.88	3.00	2.93	2.94	2.95		
G140.0	2.95	2.76	2.80	2.81	2.94	2.99	3.07	2.99	3.16	3.09	3.14	3.08		
G145.0	3.06	2.87	2.90	2.91	3.00	3.00	3.18	3.13	3.27	3.21	3.28	3.21		
G150.0	3.17	2.94	3.01	3.04	3.15	3.11	3.28	3.23	3.33	3.32	3.39	3.30		
G155.0	3.34	3.23	3.16	3.14	3.21	3.20	3.40	3.32	3.50	3.42	3.51	3.39		
G160.0	3.40	3.34	3.39	3.25	3.32	3.31	3.47	3.37	3.60	3.53	3.58	3.50		
G165.0	3.51	3.48	3.44	3.36	3.42	3.42	3.53	3.53	3.66	3.59	3.67	3.61		
G170.0	3.63	3.46	3.49	3.41	3.47	3.47	3.58	3.59	3.72	3.65	3.73	3.67		
G175.0	3.74	3.52	3.54	3.46	3.48	3.52	3.63	3.67	3.65	3.70	3.78	3.74		
G180.0	3.81	3.56	3.49	3.55	3.48	3.52	3.70	3.59	3.72	3.75	3.78	3.78		

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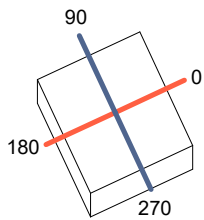
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Flujo Fuentes de luz	4030.00 lm	Valor Máximo	610.61 cd	Posición	C=90.00 G=5.00	CG	Asimétrico



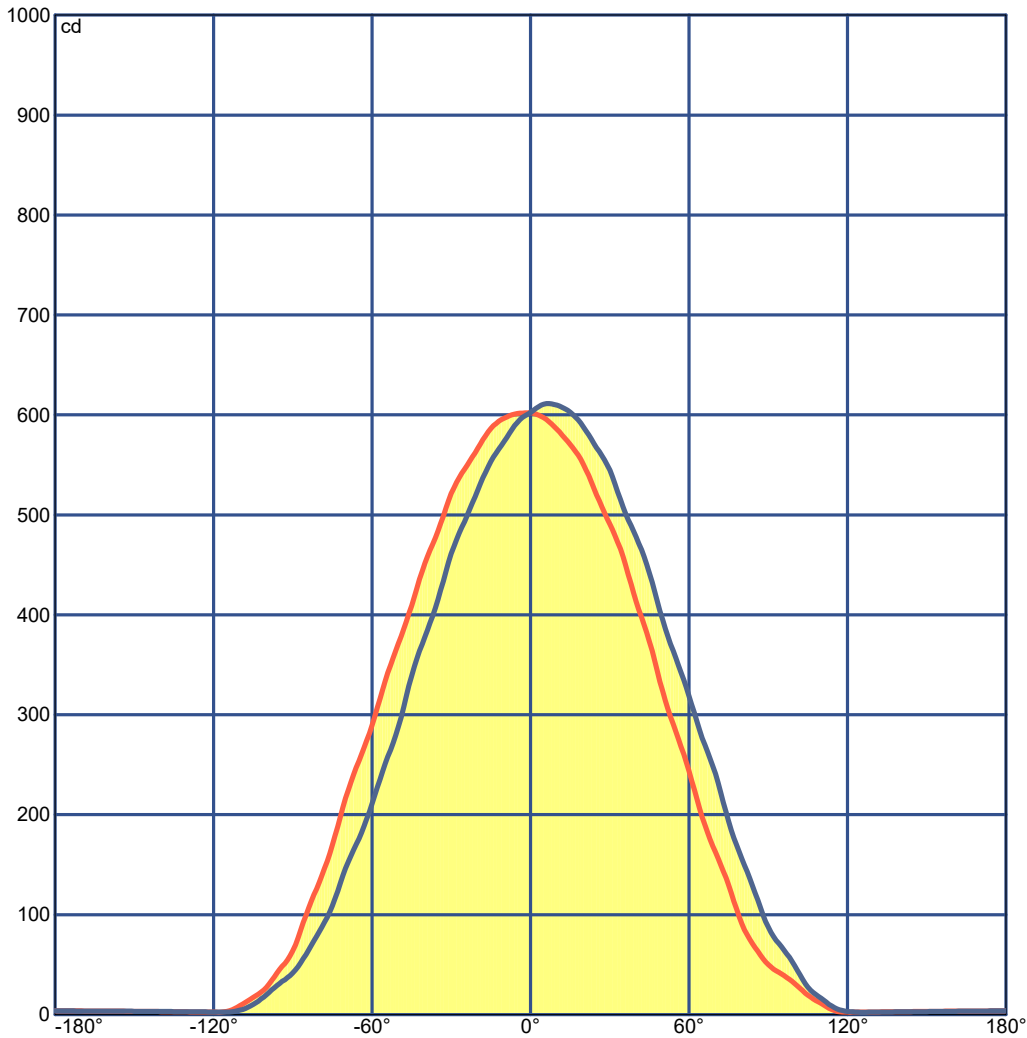
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700mm x 630mm



Semiplanos C  
180.0 0.0  
270.0 90.0



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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 Lateral						Vista Longitudinal				
x=2H y=2H	15.8	17.1	16.1	17.4	17.7	14.3	15.6	14.7	15.9	16.2
x=2H y=3H	17.7	18.9	18.1	19.3	19.7	16.1	17.3	16.5	17.6	18.0
x=2H y=4H	18.7	19.8	19.1	20.2	20.6	16.9	18.0	17.3	18.4	18.8
x=2H y=6H	19.7	20.7	20.1	21.1	21.5	17.6	18.7	18.1	19.1	19.5
x=2H y=8H	20.2	21.2	20.6	21.6	22.0	18.0	19.0	18.5	19.4	19.9
x=2H y=12H	20.7	21.6	21.1	22.0	22.5	18.4	19.3	18.8	19.8	20.2
x=4H y=2H	16.4	17.5	16.8	17.9	18.3	15.1	16.2	15.5	16.6	17.0
x=4H y=3H	18.6	19.6	19.1	20.0	20.4	17.0	18.0	17.5	18.4	18.8
x=4H y=4H	19.8	20.6	20.2	21.1	21.5	18.0	18.9	18.5	19.3	19.8
x=4H y=6H	20.9	21.6	21.4	22.1	22.6	19.0	19.8	19.5	20.2	20.7
x=4H y=8H	21.5	22.2	22.0	22.6	23.1	19.5	20.2	20.0	20.7	21.2
x=4H y=12H	22.1	22.7	22.6	23.2	23.7	20.0	20.6	20.5	21.1	21.6
x=8H y=4H	20.2	20.9	20.7	21.3	21.8	18.5	19.2	19.0	19.7	20.1
x=8H y=6H	21.5	22.1	22.0	22.6	23.1	19.6	20.2	20.2	20.7	21.3
x=8H y=8H	22.2	22.7	22.7	23.2	23.8	20.3	20.8	20.8	21.3	21.9
x=8H y=12H	23.0	23.4	23.6	24.0	24.6	21.0	21.4	21.5	22.0	22.6
x=12H y=4H	20.8	21.5	21.4	22.0	22.5	19.4	20.0	19.9	20.5	21.0
x=12H y=6H	22.0	22.5	22.6	23.1	23.7	20.4	20.9	20.9	21.4	22.0
x=12H y=8H	22.7	23.2	23.3	23.7	24.4	21.0	21.4	21.6	22.0	22.6

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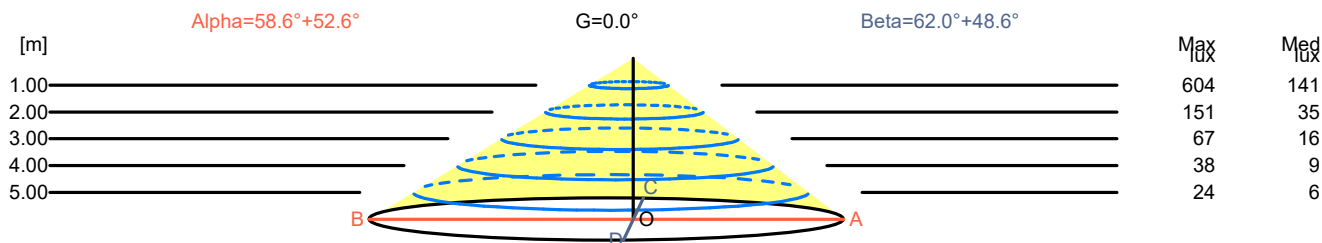
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## Apertura a 50.00 % de Max Intensidad

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	1.31	2.62	3.92	5.23	6.54	OC	1.88	3.77	5.65	7.54	9.42
OB	1.64	3.28	4.92	6.56	8.20	OD	1.14	2.27	3.41	4.54	5.68

	0	5	15	25	35	45	55	65	75	85
OA	602.33	597.12	570.33	520.13	458.07	373.47	283.05	197.44	129.33	67.26
OB	602.33	601.47	586.39	545.51	483.84	409.29	333.77	253.66	169.57	99.56
OC	602.33	610.61	602.65	567.16	507.95	441.76	356.63	276.76	192.98	121.97
OD	602.33	592.46	553.30	493.27	415.38	339.01	250.84	175.70	108.91	60.15



H[m]	D[m]	Max lux	Med lux	Alpha=58.6°+52.6°	G=0.0
1.00	2.95	604	141		
2.00	5.90	151	35		
3.00	8.84	67	16		
4.00	11.79	38	9		
5.00	14.74	24	6		

H[m]	D[m]	Max lux	Med lux	Beta=48.6°+62.0°	G=0.0
1.00	3.02	604	141		
2.00	6.04	151	35		
3.00	9.06	67	16		
4.00	12.08	38	9		
5.00	15.10	24	6		

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Nombre TAM TAM 5x8W FBT+3 satel opal

Flujo Luminaria	1868.37 lm	Potencia Luminaria	40.00 W	Eficacia	46.71 lm/W	Eficiencia	46.36%
Flujo Fuentes de luz	4030.00 lm	Valor Máximo	610.61 cd	Posición	C=90.00 G=5.00	CG Asimétrico	

Flujo Total=4030.00 Flujo Luminaria=1868.37

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	0.29	0.37	0.44	0.51	0.56	0.65	0.70	0.74	0.80	0.83	0.90	0.95
RC	5	5	5	6	6	6	6	6	6	6	6	6

Flujo Zonal por 1000 Lúmenes

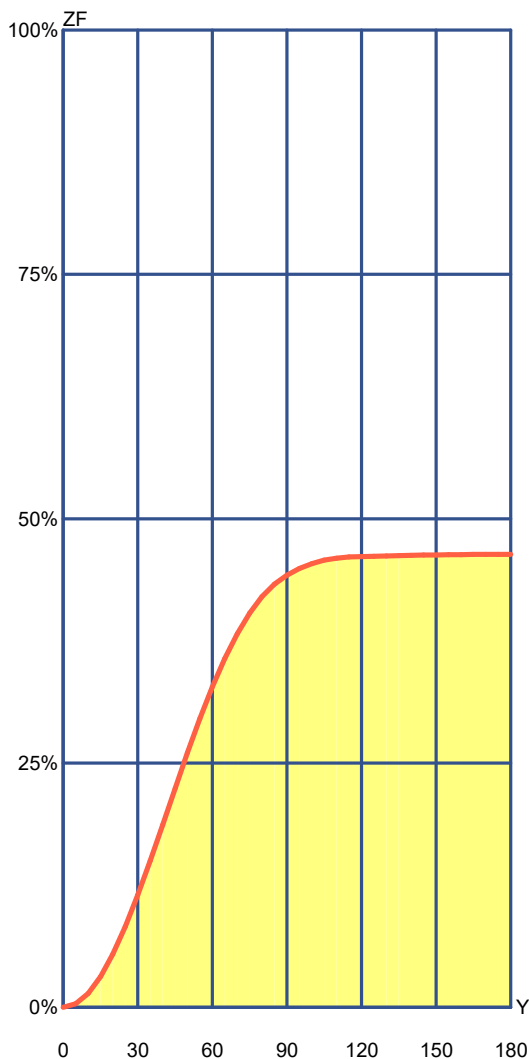
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	14	54	115	187	260	328	382	420	442	454	460	461	462	462	463	463	464	464

Códigos de Flujo C.I.E.

45 74 92 95 46

C.I.E. 5/5/5/6/6/6/6/6/6/6  
D DIN 5040 A31  
F UTE 0.44 E + 0.02 T  
B NBN BZ 5  
RN 4.61940 %  
BLF 1.0

LOR 46.36154 %  
ULOR 2.14163 %  
DLOR 44.21992 %  
UFF 4.61940 %  
DFF 95.38060 %  
FFR 4.84313 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00 %	0.00 %
5°	3.56	3.56	0.77 %	0.77 %
10°	10.56	14.12	2.28 %	3.05 %
15°	17.16	31.28	3.70 %	6.75 %
20°	23.10	54.38	4.98 %	11.73 %
25°	28.18	82.56	6.08 %	17.81 %
30°	32.26	114.82	6.96 %	24.77 %
35°	35.16	149.98	7.58 %	32.35 %
40°	36.80	186.78	7.94 %	40.29 %
45°	37.22	224.01	8.03 %	48.32 %
50°	36.47	260.48	7.87 %	56.18 %
55°	34.85	295.33	7.52 %	63.70 %
60°	32.43	327.75	6.99 %	70.70 %
65°	29.19	356.94	6.30 %	76.99 %
70°	25.44	382.39	5.49 %	82.48 %
75°	21.25	403.63	4.58 %	87.06 %
80°	16.77	420.40	3.62 %	90.68 %
85°	12.58	432.98	2.71 %	93.39 %
90°	9.22	442.20	1.99 %	95.38 %
95°	6.86	449.05	1.48 %	96.86 %
100°	5.04	454.09	1.09 %	97.95 %
105°	3.42	457.51	0.74 %	98.68 %
110°	2.11	459.62	0.45 %	99.14 %
115°	1.14	460.76	0.25 %	99.38 %
120°	0.55	461.31	0.12 %	99.50 %
125°	0.33	461.63	0.07 %	99.57 %
130°	0.28	461.91	0.06 %	99.63 %
135°	0.27	462.18	0.06 %	99.69 %
140°	0.26	462.44	0.06 %	99.75 %
145°	0.24	462.69	0.05 %	99.80 %
150°	0.22	462.91	0.05 %	99.85 %
155°	0.20	463.11	0.04 %	99.89 %
160°	0.17	463.29	0.04 %	99.93 %
165°	0.14	463.43	0.03 %	99.96 %
170°	0.10	463.53	0.02 %	99.98 %
175°	0.06	463.59	0.01 %	100.00 %
180°	0.02	463.62	0.00 %	100.00 %

**Luminaria**

Código TAM TAM MINI  
Nombre TAM TAM 5x8W FBT+3 satel opal  
Ensayo  
Código TAM TAM MINI  
Nombre TAM TAM 5x8W FBT+3 satel opal

Flujo Luminaria	1868.37 lm	Potencia Luminaria	40.00 W	Eficacia	46.71 lm/W	Eficiencia	46.36%
Flujo Fuentes de luz	4030.00 lm	Valor Máximo	610.61 cd	Posición	C=90.00 G=5.00	CG	Asimétrico

Isolux (Suelo)

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

