

**Luminaire**

Code TAM TAM MINI  
Name TAM TAM 5x8W FBT+3 satel opal

**Measurem.**

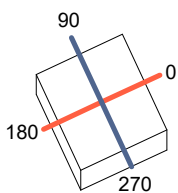
Code TAM TAM MINI  
Name TAM TAM 5x8W FBT+3 satel opal

Luminaire Flux	1868.37 lm	Luminaire Power	40.00 W	Efficacy	46.71 lm/W	Efficiency	46.36%
Sources Flux	4030.00 lm	Maximum value	610.61 cd	Position	C=90.00 G=5.00	CG	Asymmetrical
Rectangular Luminaire		Length	700 mm	Width	630 mm	Height	200 mm
Rectangular Luminous Area		Length	690 mm	Width	320 mm	Height	0 mm
Horizontal Luminous Area		0.220800 m2		Emitting area on Plane 180°		0.000000 m2	
Emitting area on Plane 0°		0.000000 m2		Emitting area on Plane 270°		0.000000 m2	
Emitting area on Plane 90°		0.000000 m2		Glare area at 76°		0.053416 m2	
Coordinate system		CG		Symmetry Type		Asymmetrical	
Date		07-02-2013		Maximum Gamma Angle		180	
Measurement Distance		0.00		Measurement Flux		3000.00 lm	
Operator		Asselum T2		Rated Voltage			
Temperature		25.00 °C		Rated Current			
Humidity		60.00 %		Photocell			
Notes							

**Luminaire Sources**

Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
	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



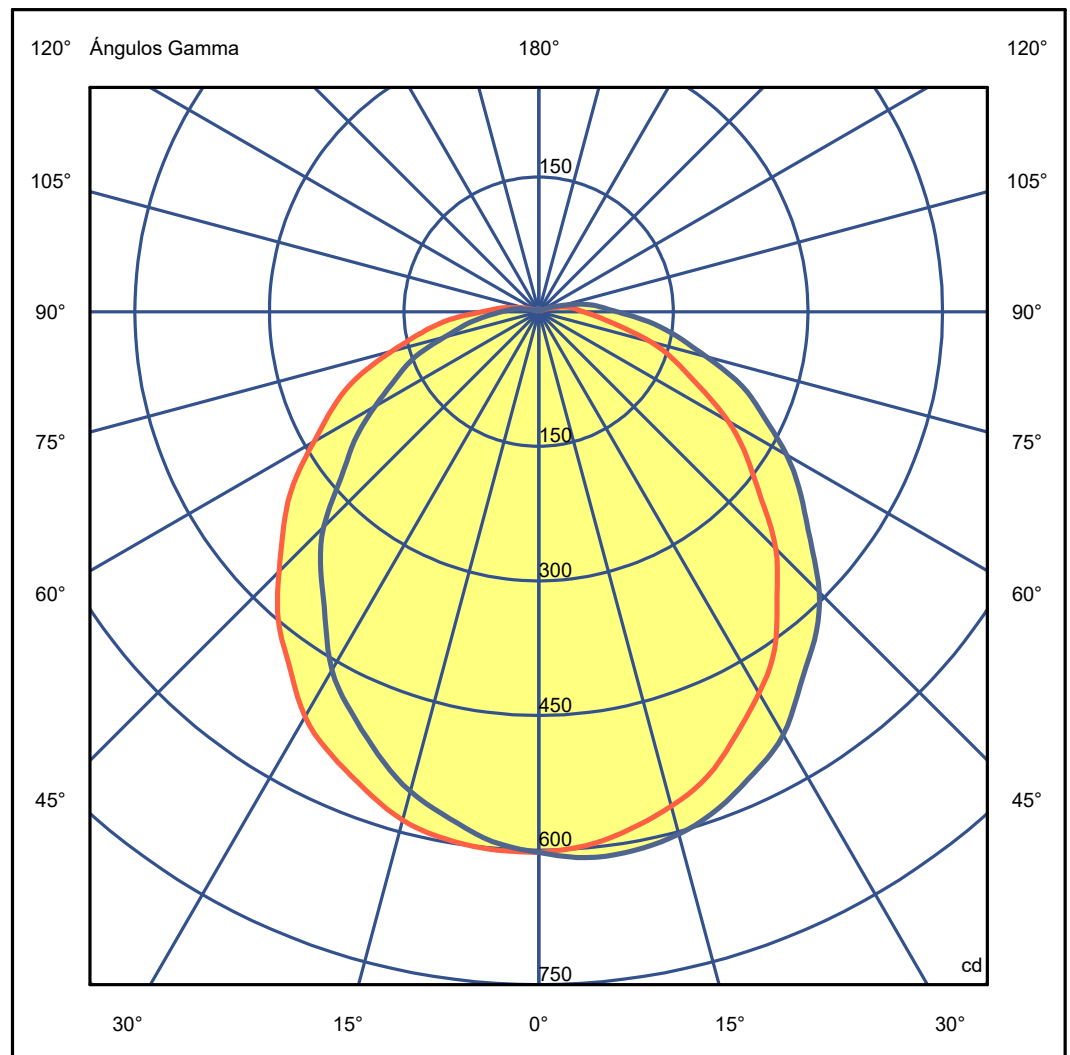
Semiplanos C

180.0 — 0.0  
270.0 — 90.0

ULOR 2.14 %

DLOR 44.22 %

RN 4.62 %



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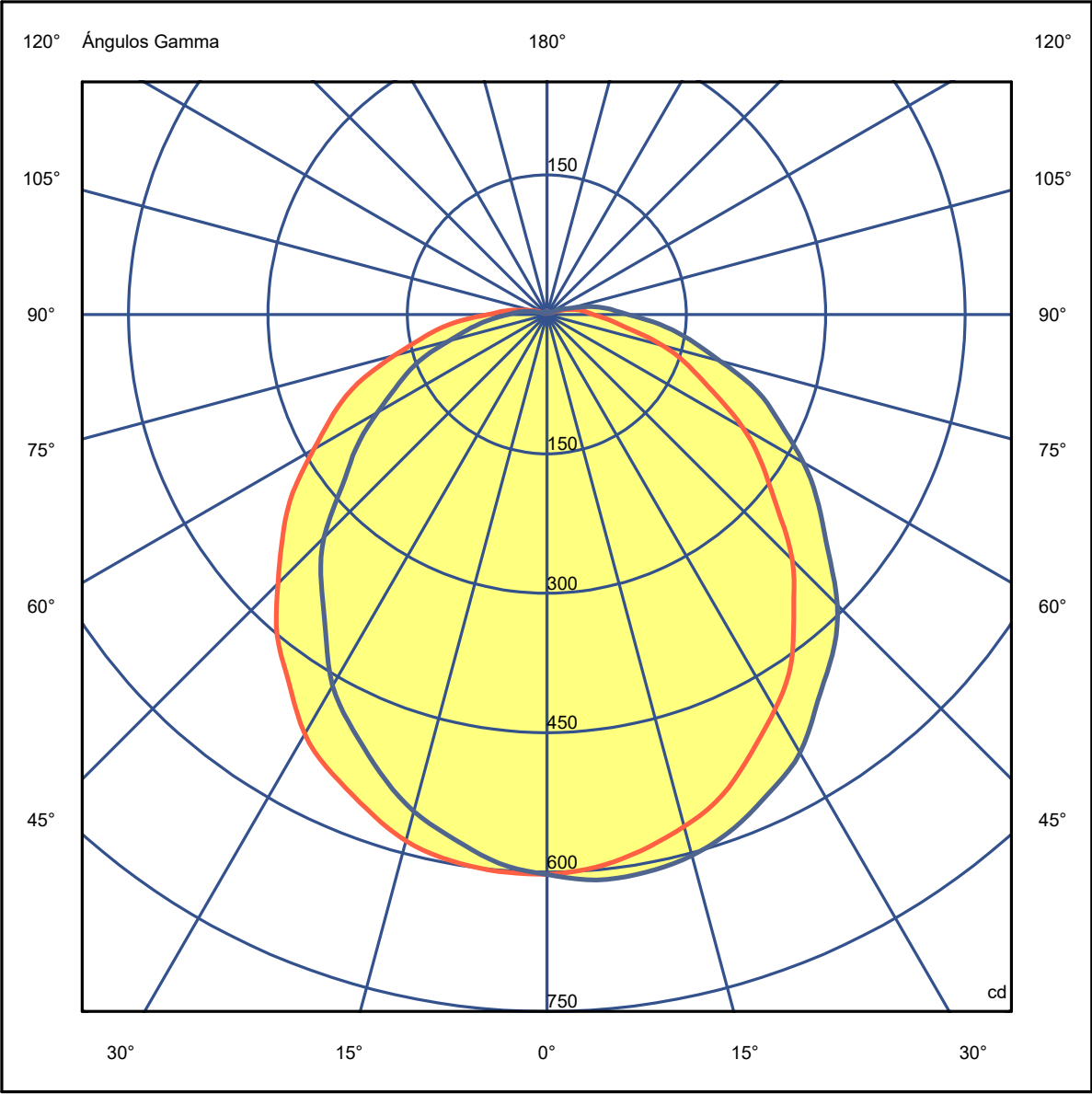
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Sources Flux	4030.00 lm		Maximum value		610.61 cd		Position	C=90.00 G=5.00		CG Asymmetrical		
Luminous Intensity Table cd Table 1/1												
	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00	C 105.00	C 120.00	C 135.00	C 150.00	C 165.00
G 0.0	602.33	602.33	602.33	602.33	602.33	602.33	602.33	602.33	602.33	602.33	602.33	602.33
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
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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Luminaire Flux	1868.37 lm	Luminaire Power	40.00 W	Efficacy	46.71 lm/W	Efficiency	46.36%
Sources Flux	4030.00 lm	Maximum value	610.61 cd	Position	C=90.00 G=5.00	CG	Asymmetrical



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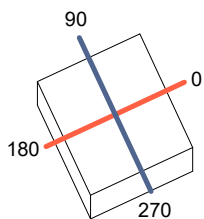
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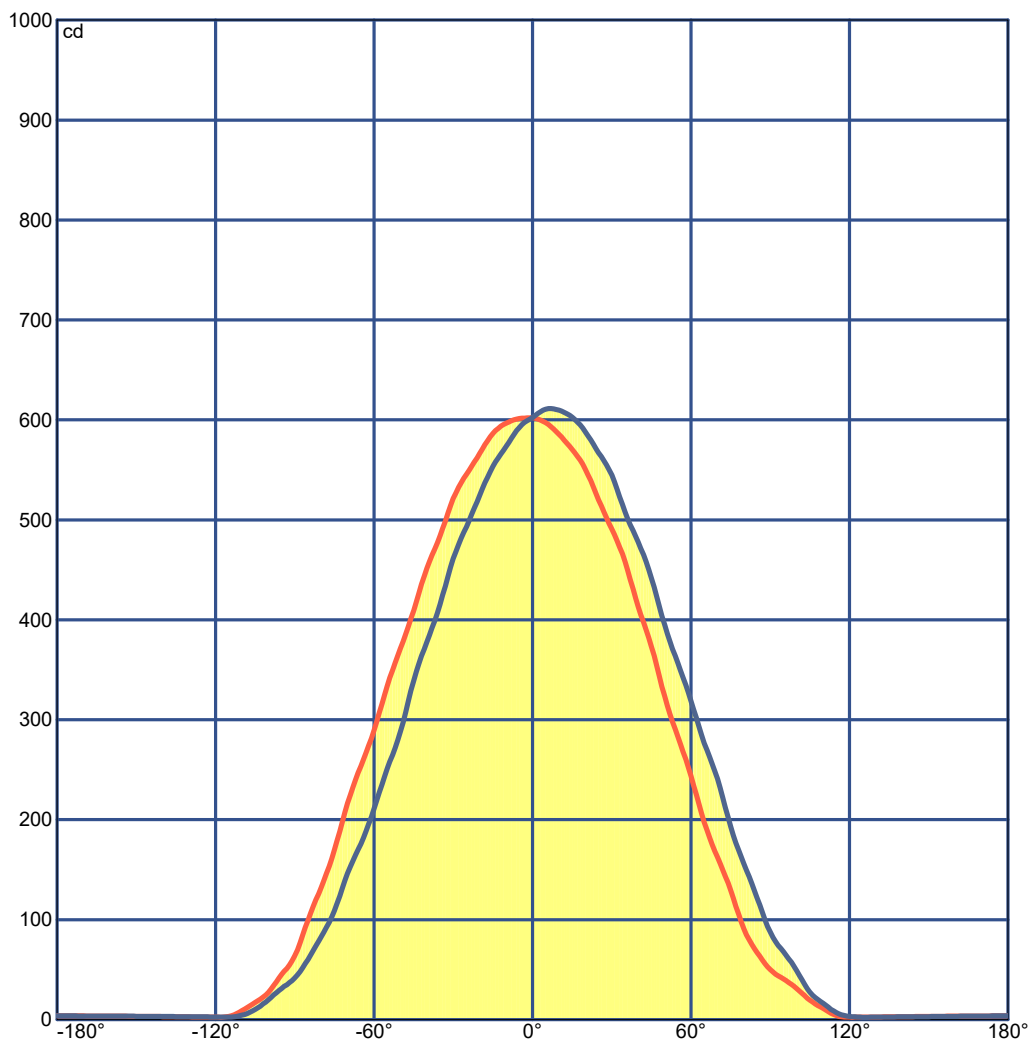
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700mm x 630mm



Semiplanos C

180.0 ——— 0.0  
270.0 ——— 90.0



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**UGR**  
 S = 0.250

Reflectancies										
Ceiling/Cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Working Plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions										
Room Dimensions	Lateral View					Viewed Endwise				
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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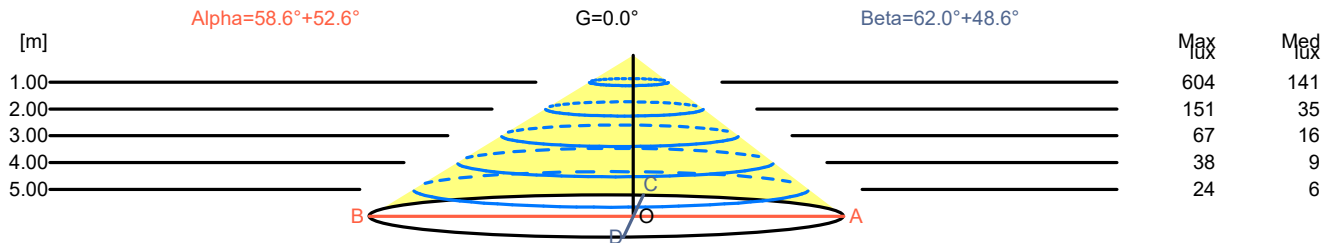
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Width at 50.00 % of Max Intensity

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

Luminous Intensities [ cd]

	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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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

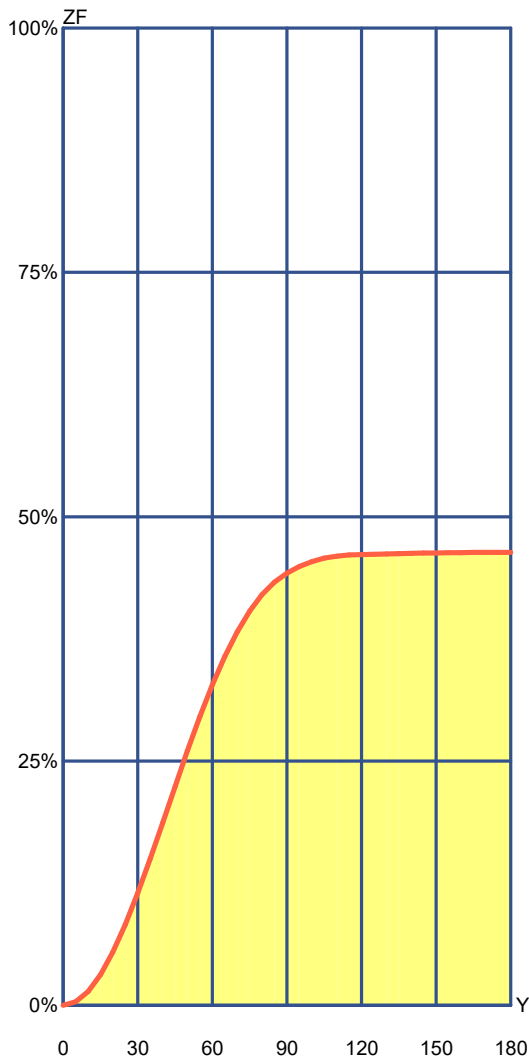
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	14	54	115	187	260	328	382	420	442	454	460	461	462	462	463	463	464	464

Códigos de Flujo C.I.E.

45 74 92 95 46

C.I.E. 5/5/5/6/6/6/6/6/6/6/6  
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 %

**Luminaire**

Code TAM TAM MINI  
Name TAM TAM 5x8W FBT+3 satel opal

**Measurem.**

Code TAM TAM MINI  
Name TAM TAM 5x8W FBT+3 satel opal

Luminaire Flux	1868.37 lm	Luminaire Power	40.00 W	Efficacy	46.71 lm/W	Efficiency	46.36%
Sources Flux	4030.00 lm	Maximum value	610.61 cd	Position	C=90.00 G=5.00	CG	Asymmetrical

Isolux (Floor)

Luminaire position X=0.00m Y=0.00m Z=2.50m

