

Luminaria

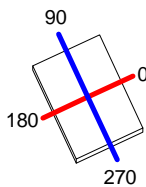
Código Nura 1
 Nombre Nura 1
Ensayo
 Código Nura 1
 Nombre Nura 1

Flujo Luminaria	1956.63 lm	Potencia luminaria	48.79 W	Eficacia	40.10 lm/W	Eficiencia	100.00%
Flujo de Lámpara	1956.63 lm	Valor Máximo	390.68 cd	Posición	C=165.00 G=37.50	CG	Asimétrico
Luminaria Rectangular		Longit.	880 mm	Anchura	630 mm	Altura	35 mm
Área Luminosa Rectangular		Longit.	710 mm	Anchura	475 mm	Altura	30 mm
Área Luminosa Horizontal	0.337250 m2			Área Emisión sobre Pl. 180°		0.021300 m2	
Área Emisión sobre Pl. 0°	0.021300 m2			Área Emisión sobre Pl. 270°		0.014250 m2	
Área Emisión sobre Pl. 90°	0.014250 m2			Área de deslumbramiento a 76°		0.102255 m2	
Sist. de Coordn.	CG	Tipo de Simetría		Asimétrico			
Fecha	26-04-2019	Máximo Ángulo Gamma		180			
Distancia de Ensayo	6.44	Flujo de Ensayo		1956.63 lm			
Operador	Asselum T2	Tensión Nominal		230.19 V			
Temperatura	24.40 °C	Corriente Nominal		0.45 A			
Humedad	30.20 %	Fotocélula		Prc			
Notas	RM19042302						

Lámparas de la Luminaria

Familia	Código	Nombre	Flujo [lm]	Pot. [W]	Cant.
	Nura 1	Nura 1	1956.63	48.79	1
C.I.E.	30 58 84 97 100	D DIN 5040	A11		
F UTE	0.97 H + 0.03 T	B NBN	BZ 7 / 2 / BZ 6		

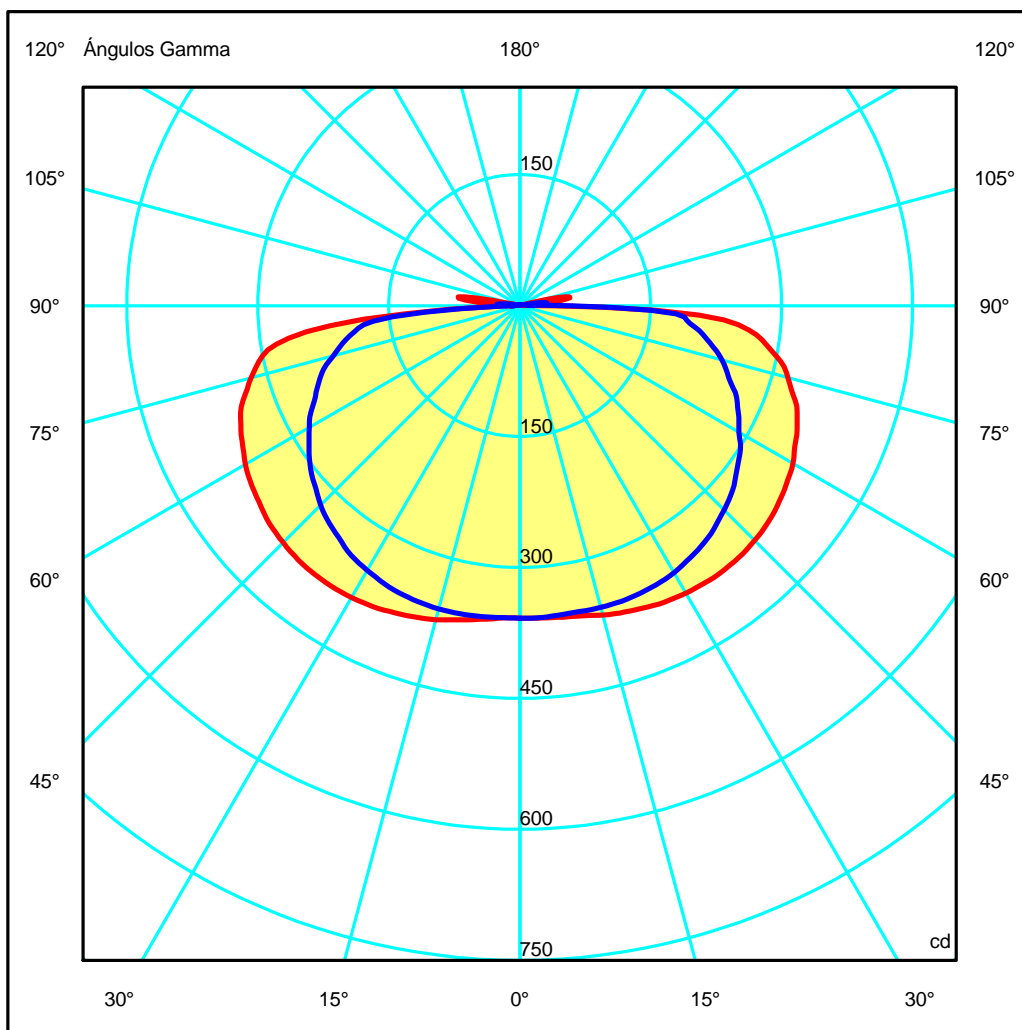
880mm x 630mm



Semiplanos C

180.0 — 0.0
 270.0 — 90.0

ULOR 2.70 %
 DLOR 97.30 %
 RN 2.70 %



Luminaria

Código Nura 1
Nombre Nura 1

Ensayo

Código Nura 1
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Flujo Luminaria	1956.63 lm	Potencia luminaria	48.79 W	Eficacia	40.10 lm/W	Eficiencia	100.00%
Flujo de Lámpara	1956.63 lm	Valor Máximo	390.68 cd	Posición	C=165.00 G=37.50	CG	Asimétrico

Tabla de Intensidad Luminosa cd Tabla 1/2

	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	C 180.00
G 0.0	358	358	358	358	358	358	358	358	358	358	358	358	358
G 2.5	358	358	359	358	358	358	358	358	358	358	358	358	358
G 5.0	359	359	359	358	358	357	358	357	358	358	358	359	360
G 7.5	360	360	359	359	358	357	357	357	358	359	359	361	363
G 10.0	361	363	361	360	358	357	357	357	358	361	361	365	366
G 12.5	363	366	363	362	359	358	357	357	358	363	364	369	368
G 15.0	367	368	366	363	359	358	358	357	359	365	367	372	373
G 17.5	370	372	368	364	360	358	358	357	360	367	371	375	375
G 20.0	372	374	370	365	359	357	358	357	361	369	374	379	378
G 22.5	374	376	372	365	359	356	357	357	362	370	376	382	380
G 25.0	377	378	373	365	357	355	356	356	362	371	378	384	383
G 27.5	379	380	374	365	356	353	355	355	362	372	381	386	384
G 30.0	380	381	375	364	354	351	353	353	362	372	382	388	386
G 32.5	381	381	375	363	352	347	350	352	362	372	383	390	387
G 35.0	382	382	375	360	348	344	348	350	361	371	384	390	387
G 37.5	383	381	374	358	345	340	344	347	360	371	385	391	387
G 40.0	382	380	373	355	341	336	341	344	359	369	385	390	387
G 42.5	382	379	370	352	336	329	335	340	357	368	384	390	385
G 45.0	380	377	368	346	331	324	331	337	355	365	382	388	384
G 47.5	379	374	365	342	325	318	326	333	351	363	381	386	382
G 50.0	376	371	361	337	319	310	320	327	348	360	378	383	379
G 52.5	373	368	357	331	311	302	313	323	345	357	376	380	375
G 55.0	369	363	353	323	304	295	306	318	340	353	372	376	371
G 57.5	365	358	348	317	297	287	300	312	336	349	368	373	368
G 60.0	361	353	340	310	289	276	290	305	332	344	364	368	363
G 62.5	355	348	335	302	279	268	283	299	327	338	359	363	357
G 65.0	350	340	329	293	271	259	275	293	320	333	353	358	352
G 67.5	344	333	322	286	263	250	268	284	315	328	348	351	346
G 70.0	337	325	313	278	252	237	257	277	310	321	342	344	340
G 72.5	327	317	305	266	243	228	248	269	303	311	333	336	329
G 75.0	318	303	296	256	234	218	240	260	292	302	326	328	319
G 77.5	308	292	285	245	225	208	229	245	282	292	317	314	307
G 80.0	292	278	269	233	211	193	217	232	271	279	306	300	293
G 82.5	277	258	255	212	199	181	205	216	254	254	288	280	257
G 85.0	251	200	232	181	186	166	192	190	229	220	267	238	180
G 87.5	183	89	188	98	166	105	167	90	191	112	211	87	60
G 90.0	39	1	45	1	44	3	59	2	74	0	93	2	9
G 92.5	3	18	4	24	6	28	6	18	8	31	7	23	30
G 95.0	21	44	23	48	29	48	28	32	40	64	33	42	53
G 97.5	50	61	53	48	51	42	26	13	61	64	62	76	72
G100.0	58	33	36	31	45	21	14	5	38	32	71	62	49
G102.5	40	3	14	5	28	2	2	2	17	15	41	27	10
G105.0	10	2	2	2	4	2	2	2	4	3	14	3	2
G107.5	2	2	2	2	2	2	2	2	2	2	3	2	2
G110.0	2	2	2	2	2	2	2	2	2	2	2	2	2
G112.5	2	2	2	2	2	2	2	2	2	2	2	2	2
G115.0	2	2	2	2	2	2	2	2	2	2	2	2	2
G117.5	2	2	2	2	1	1	2	2	2	2	2	2	2
G120.0	2	2	2	2	2	2	2	2	2	1	2	2	2
G122.5	1	1	2	2	2	2	1	1	2	1	2	2	2
G125.0	1	1	2	1	2	1	1	1	2	1	2	1	2
G127.5	1	1	1	1	1	1	1	1	1	1	1	1	1
G130.0	1	1	1	1	1	1	1	1	1	1	1	1	1
G132.5	1	1	1	1	1	1	1	1	1	1	1	1	1
G135.0	1	1	1	1	1	1	1	1	1	1	1	1	1
G137.5	1	1	1	1	1	1	1	1	1	1	1	1	1
G140.0	1	1	1	1	1	1	1	1	1	1	1	1	1
G142.5	1	1	1	1	1	1	1	1	1	1	1	1	1
G145.0	1	1	1	1	1	1	1	1	1	1	1	1	1
G147.5	1	1	1	1	1	1	1	1	1	1	1	1	1
G150.0	1	1	1	1	1	1	1	1	1	1	1	1	1
G152.5	1	1	1	1	1	1	1	1	1	1	1	1	1
G155.0	1	1	1	1	1	1	1	1	1	1	1	1	1
G157.5	1	1	1	1	1	1	1	1	1	1	1	1	1
G160.0	1	1	1	1	1	1	1	1	1	1	1	1	1
G162.5	1	1	1	1	1	1	1	1	1	1	1	1	1
G165.0	1	1	1	1	1	1	1	1	1	1	1	1	1
G167.5	1	1	1	1	1	1	1	1	1	1	1	1	1
G170.0	1	1	1	1	1	1	1	1	1	1	1	1	1
G172.5	1	1	1	1	1	1	1	1	1	1	1	1	1
G175.0	1	1	1	1	1	1	1	1	1	1	1	1	1
G177.5	1	1	1	1	1	1	1	1	1	1	1	1	1
G180.0	1	1	1	1	1	1	1	1	1	1	1	1	1

CARPYEN

BARCELONA

Luminaria

Código Nura 1
Nombre Nura 1

Ensayo

Código Nura 1
Nombre Nura 1

Flujo Luminaria	1956.63 lm	Potencia luminaria	48.79 W	Eficacia	40.10 lm/W	Eficiencia	100.00%
Flujo de Lámpara	1956.63 lm	Valor Máximo	390.68 cd	Posición	C=165.00 G=37.50	CG	Asimétrico

Tabla de Intensidad Luminosa cd Tabla 2/2

	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	358	358	358	358	358	358	358	358	358	358	358
G 2.5	357	357	358	357	357	358	358	358	358	359	358
G 5.0	357	358	357	357	357	358	358	360	359	360	359
G 7.5	358	359	357	357	357	359	359	362	361	362	360
G 10.0	360	361	358	357	357	359	361	364	363	364	362
G 12.5	364	363	359	357	357	360	362	366	365	367	364
G 15.0	366	365	360	357	356	360	363	368	368	369	366
G 17.5	369	367	361	357	355	359	364	369	370	370	369
G 20.0	371	368	361	357	354	358	365	370	371	372	371
G 22.5	374	369	362	356	352	357	365	370	373	373	373
G 25.0	376	371	362	354	350	355	364	370	374	374	375
G 27.5	377	371	361	353	348	353	363	370	375	375	377
G 30.0	379	371	361	351	345	350	362	369	375	375	378
G 32.5	380	371	359	348	342	347	360	367	375	375	379
G 35.0	380	370	358	345	339	344	358	366	374	375	379
G 37.5	381	370	356	342	334	338	354	363	373	374	380
G 40.0	380	368	354	338	330	334	350	360	371	373	379
G 42.5	379	366	350	332	325	329	347	356	368	370	378
G 45.0	378	363	347	328	319	323	343	352	365	368	377
G 47.5	376	361	343	323	313	316	336	348	362	365	374
G 50.0	373	357	340	317	307	309	331	342	358	362	372
G 52.5	370	353	334	310	301	303	325	336	353	356	369
G 55.0	367	348	329	303	292	295	319	330	348	352	364
G 57.5	363	344	324	296	285	286	310	324	343	347	360
G 60.0	358	339	318	287	278	279	303	315	337	340	356
G 62.5	353	332	311	280	271	271	296	308	329	334	351
G 65.0	349	326	305	273	261	260	287	301	322	328	343
G 67.5	343	320	298	266	253	252	278	294	315	321	337
G 70.0	335	313	289	254	245	244	270	282	304	310	330
G 72.5	328	302	281	245	236	234	262	273	296	301	321
G 75.0	319	291	273	236	224	221	249	264	287	291	310
G 77.5	305	280	263	227	215	210	239	252	276	280	299
G 80.0	291	265	249	213	204	198	228	233	259	259	286
G 82.5	274	235	235	199	190	184	213	212	243	235	269
G 85.0	246	182	215	173	174	146	185	170	219	169	226
G 87.5	134	61	169	56	144	49	134	59	161	52	137
G 90.0	14	9	10	11	30	6	19	10	7	6	12
G 92.5	9	31	17	42	21	24	10	33	13	28	13
G 95.0	30	56	46	40	47	23	34	52	36	55	32
G 97.5	64	55	54	16	32	15	32	42	64	59	60
G100.0	65	19	18	6	22	9	21	11	54	41	61
G102.5	38	2	2	2	9	3	9	2	29	14	34
G105.0	3	2	2	2	2	2	2	2	4	2	7
G107.5	2	2	2	2	2	2	2	2	2	2	2
G110.0	2	2	2	2	2	2	2	2	2	2	2
G112.5	2	2	2	2	2	2	2	2	2	2	2
G115.0	2	2	2	2	2	2	2	2	2	2	2
G117.5	2	2	2	1	2	2	2	2	2	2	2
G120.0	2	2	2	1	1	1	2	2	2	2	2
G122.5	2	2	2	1	1	1	1	2	2	1	1
G125.0	2	2	1	1	1	1	1	2	2	1	1
G127.5	1	1	1	1	1	1	1	2	2	1	1
G130.0	1	1	1	1	1	1	1	2	2	1	1
G132.5	1	1	1	1	1	1	1	2	2	1	1
G135.0	1	1	1	1	1	1	1	1	2	1	1
G137.5	1	1	1	1	1	1	1	1	1	1	1
G140.0	1	1	1	1	1	1	1	1	1	1	1
G142.5	1	1	1	1	1	1	1	1	1	1	1
G145.0	1	1	1	1	1	1	1	1	1	1	1
G147.5	1	1	1	1	1	1	1	1	1	1	1
G150.0	1	1	1	1	1	1	1	1	1	1	1
G152.5	1	1	1	1	1	1	1	1	1	1	1
G155.0	1	1	1	1	1	1	1	1	1	1	1
G157.5	1	1	1	1	1	1	1	1	1	1	1
G160.0	1	1	1	1	1	1	1	1	1	1	1
G162.5	1	1	1	1	1	1	1	1	1	1	1
G165.0	1	1	1	1	1	1	1	1	1	1	1
G167.5	1	1	1	1	1	1	1	1	1	1	1
G170.0	1	1	1	1	1	1	1	1	1	1	1
G172.5	1	1	1	1	1	1	1	1	1	1	1
G175.0	1	1	1	1	1	1	1	1	1	1	1
G177.5	1	1	1	1	1	1	1	1	1	1	1
G180.0	1	1	1	1	1	1	1	1	1	1	1

Luminaria

Código Nura 1

Nombre Nura 1

Ensayo

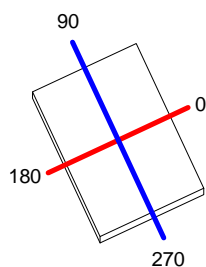
Código Nura 1

Nombre Nura 1

Flujo Luminaria	1956.63 lm	Potencia luminaria	48.79 W	Eficacia	40.10 lm/W	Eficiencia	100.00%
Flujo de Lámpara	1956.63 lm	Valor Máximo	390.68 cd	Posición	C=165.00 G=37.50	CG	Asimétrico

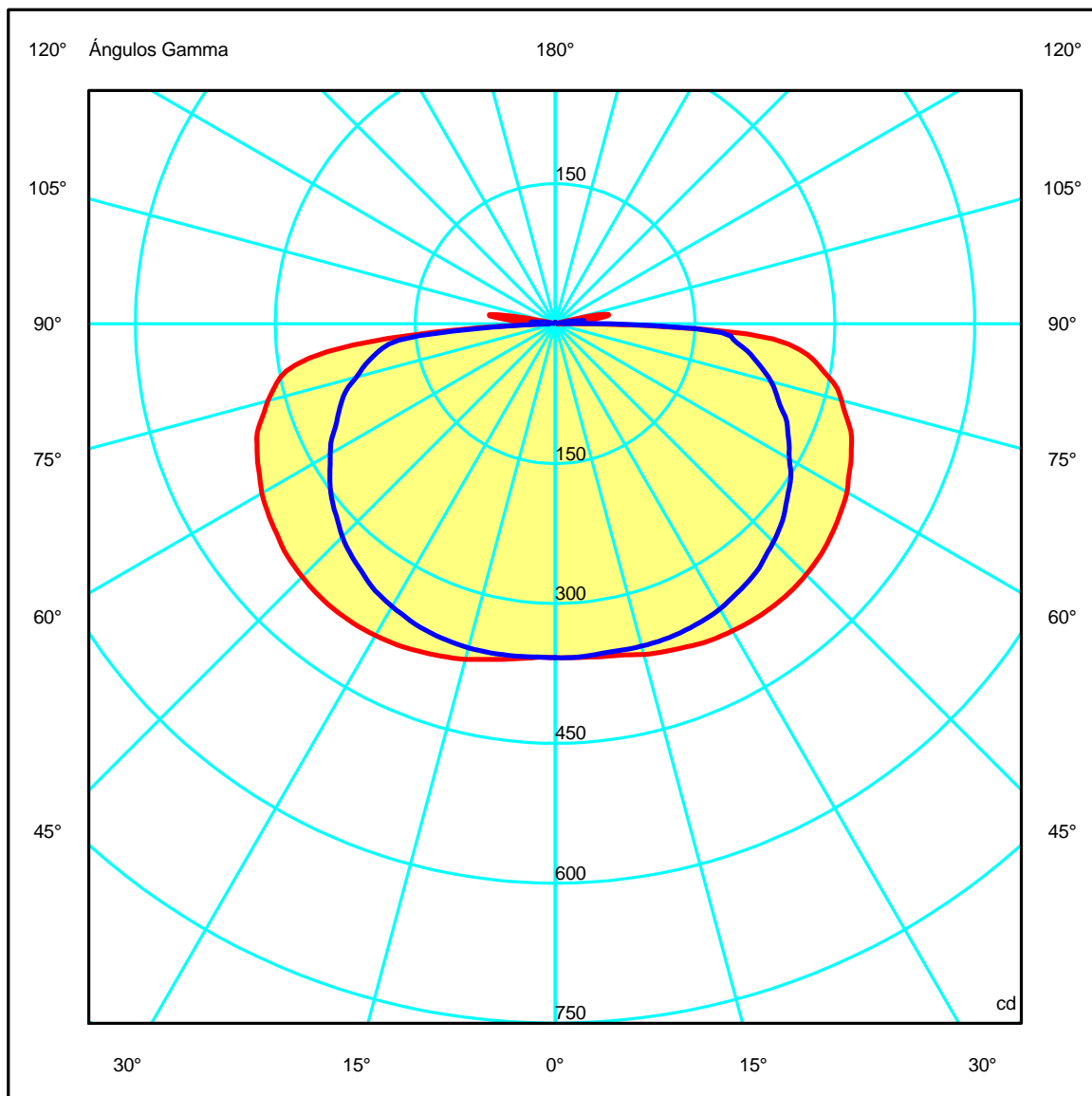
880mm x 630mm

Semiplanos C



180.0 ————— 0.0

270.0 ————— 90.0



Luminaria

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Flujo Luminaria	1956.63 lm	Potencia luminaria	48.79 W	Eficacia	40.10 lm/W	Eficiencia	100.00%
Flujo de Lámpara	1956.63 lm	Valor Máximo	390.68 cd	Posición	C=165.00 G=37.50	CG	Asimétrico

UGR
S = 0.250

Reflectancias										
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
WorkingPlane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
RoomDimensions	Viewed Crosswise					Viewed Endwise				
x=2H y=2H	14.7	16.2	15.0	16.5	16.8	13.4	15.0	13.8	15.3	15.6
x=2H y=3H	17.7	19.1	18.1	19.5	19.8	16.1	17.5	16.5	17.9	18.2
x=2H y=4H	19.3	20.7	19.7	21.0	21.4	17.5	18.9	17.9	19.2	19.6
x=2H y=6H	20.9	22.2	21.3	22.6	23.0	19.0	20.2	19.4	20.6	21.0
x=2H y=8H	21.7	23.0	22.1	23.3	23.7	19.7	21.0	20.1	21.3	21.7
x=2H y=12H	22.3	23.5	22.7	23.9	24.3	20.4	21.6	20.8	22.0	22.4
x=4H y=2H	15.7	17.0	16.1	17.4	17.8	14.8	16.1	15.2	16.5	16.9
x=4H y=3H	18.9	20.1	19.3	20.5	20.9	17.5	18.7	18.0	19.2	19.6
x=4H y=4H	20.6	21.7	21.1	22.2	22.6	19.1	20.2	19.5	20.6	21.0
x=4H y=6H	22.5	23.5	22.9	23.9	24.4	20.7	21.7	21.1	22.1	22.6
x=4H y=8H	23.4	24.3	23.9	24.7	25.2	21.5	22.4	22.0	22.9	23.4
x=4H y=12H	24.1	24.9	24.6	25.4	25.9	22.3	23.1	22.8	23.6	24.1
x=8H y=4H	21.3	22.2	21.8	22.7	23.2	20.0	20.9	20.5	21.4	21.9
x=8H y=6H	23.4	24.1	23.9	24.6	25.1	21.8	22.6	22.3	23.1	23.6
x=8H y=8H	24.4	25.1	25.0	25.6	26.2	22.8	23.5	23.3	24.0	24.5
x=8H y=12H	25.4	26.0	25.9	26.5	27.1	23.7	24.3	24.3	24.9	25.4
x=12H y=4H	21.4	22.3	21.9	22.7	23.2	20.2	21.1	20.7	21.6	22.0
x=12H y=6H	23.6	24.3	24.1	24.8	25.3	22.2	22.9	22.7	23.4	23.9
x=12H y=8H	24.7	25.4	25.3	25.9	26.5	23.2	23.8	23.7	24.3	24.9

Luminaria

Código Nura 1

Nombre Nura 1

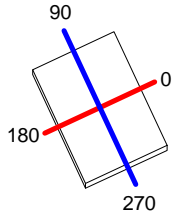
Ensayo

Código Nura 1

Nombre Nura 1

Flujo Luminaria	1956.63 lm	Potencia luminaria	48.79 W	Eficacia	40.10 lm/W	Eficiencia	100.00%
Flujo de Lámpara	1956.63 lm	Valor Máximo	390.68 cd	Posición	C=165.00 G=37.50	CG	Asimétrico

880mm x 630mm



Semiplanos C
 180.0 ——— 0.0
 270.0 ——— 90.0



Luminaria

Código Nura 1

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Ensayo

Código Nura 1

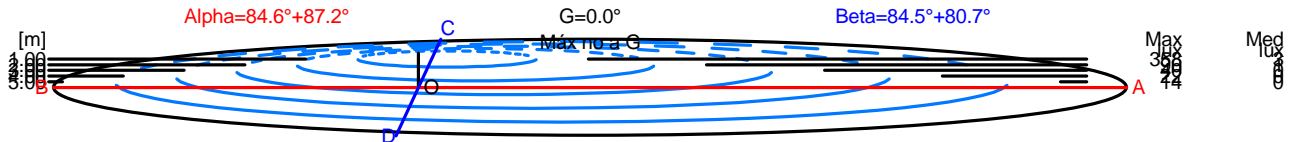
Nombre Nura 1

Flujo Luminaria	1956.63 lm	Potencia luminaria	48.79 W	Eficacia	40.10 lm/W	Eficiencia	100.00%
Flujo de Lámpara	1956.63 lm	Valor Máximo	390.68 cd	Posición	C=165.00 G=37.50	CG	Asimétrico

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	20.69	41.38	62.08	82.77	103.46	OC	10.47	20.93	31.40	41.87	52.33
OB	10.65	21.31	31.96	42.61	53.26	OD	6.13	12.27	18.40	24.53	30.66

	Intensidades Luminosas [cd]									
	0	5	15	25	35	45	55	65	75	85
OA	358.02	358.94	367.04	377.12	382.31	380.34	369.47	349.95	317.85	251.00
OB	358.02	359.95	372.55	382.79	387.38	383.66	371.34	352.08	318.83	179.84
OC	358.02	357.83	357.85	356.24	347.52	330.89	306.46	275.34	239.84	191.71
OD	358.02	358.31	359.56	355.34	343.65	322.82	294.87	259.92	220.76	146.14



H[m]	D[m]	Max lux	Med lux	Alpha=84.6°+87.2°	G=0.0 Máx no a G
1.00	31.35	358	3		
2.00	62.69	90	1		
3.00	94.04	40	0		
4.00	125.38	22	0		
5.00	156.73	14	0		

H[m]	D[m]	Max lux	Med lux	Beta=80.7°+84.5°	G=0.0 Máx no a G
1.00	16.60	358	3		
2.00	33.20	90	1		
3.00	49.80	40	0		
4.00	66.40	22	0		
5.00	83.00	14	0		

Luminaria

Código Nura 1

Nombre Nura 1

Ensayo

Código Nura 1

Nombre Nura 1

Flujo Luminaria	1956.63 lm	Potencia luminaria	48.79 W	Eficacia	40.10 lm/W	Eficiencia	100.00%
Flujo de Lámpara	1956.63 lm	Valor Máximo	390.68 cd	Posición	C=165.00 G=37.50	CG	Asimétrico

Flujo Total=1956.63 Flujo Luminaria=1956.63

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	0.19	0.26	0.32	0.39	0.44	0.53	0.59	0.64	0.71	0.75	0.85	0.92
RC	8	8	8	8	8	8	8	8	8	8	7	7

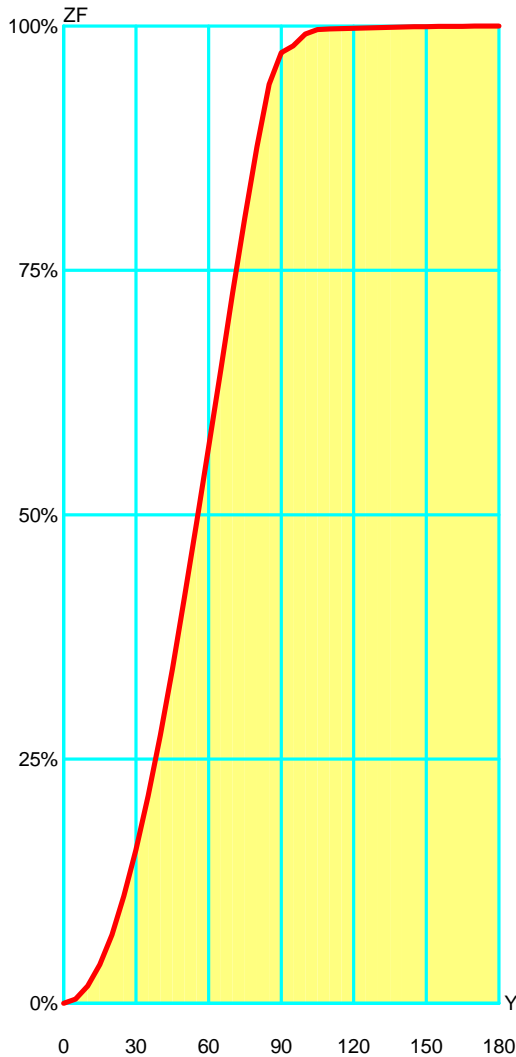
Flujo Zonal por 1000 Lúmenes

Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	18	70	157	274	415	569	727	876	973	992	997	998	998	999	999	1000	1000	1000

Códigos de Flujo C.I.E.

30 58 84 97 100

C.I.E.	8/8/8/8/8/8/8/8/7/7	LOR	100.00000 %
D DIN 5040	A11	ULOR	2.70173 %
F UTE	0.97 H + 0.03 T	DLOR	97.29827 %
B NBN	BZ 7 / 2 / BZ 6	UFF	2.70173 %
RN	2.70173 %	DFE	97.29827 %
BLF	1.0	FFR	2.77675 %



Gamma °	Flujo Zonal			
	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	4.38	4.38	0.44 %	0.44 %
10°	13.14	17.51	1.31 %	1.75 %
15°	21.96	39.47	2.20 %	3.95 %
20°	30.76	70.23	3.08 %	7.02 %
25°	39.34	109.57	3.93 %	10.96 %
30°	47.55	157.12	4.75 %	15.71 %
35°	55.17	212.29	5.52 %	21.23 %
40°	62.01	274.29	6.20 %	27.43 %
45°	67.87	342.16	6.79 %	34.22 %
50°	72.61	414.77	7.26 %	41.48 %
55°	76.09	490.86	7.61 %	49.09 %
60°	78.29	569.15	7.83 %	56.91 %
65°	79.16	648.31	7.92 %	64.83 %
70°	78.77	727.07	7.88 %	72.71 %
75°	76.68	803.76	7.67 %	80.38 %
80°	72.66	876.42	7.27 %	87.64 %
85°	64.07	940.49	6.41 %	94.05 %
90°	32.49	972.98	3.25 %	97.30 %
95°	6.86	979.85	0.69 %	97.98 %
100°	11.95	991.79	1.19 %	99.18 %
105°	4.58	996.37	0.46 %	99.64 %
110°	0.58	996.96	0.06 %	99.70 %
115°	0.43	997.38	0.04 %	99.74 %
120°	0.39	997.77	0.04 %	99.78 %
125°	0.36	998.13	0.04 %	99.81 %
130°	0.32	998.45	0.03 %	99.85 %
135°	0.29	998.75	0.03 %	99.87 %
140°	0.26	999.01	0.03 %	99.90 %
145°	0.23	999.24	0.02 %	99.92 %
150°	0.20	999.44	0.02 %	99.94 %
155°	0.17	999.61	0.02 %	99.96 %
160°	0.14	999.75	0.01 %	99.97 %
165°	0.11	999.86	0.01 %	99.99 %
170°	0.08	999.94	0.01 %	99.99 %
175°	0.05	999.98	0.00 %	100.00 %
180°	0.02	1000.00	0.00 %	100.00 %

Luminaria

Código Nura 1

Nombre Nura 1

Ensayo

Código Nura 1

Nombre Nura 1

Flujo Luminaria	1956.63 lm	Potencia luminaria	48.79 W	Eficacia	40.10 lm/W	Eficiencia	100.00%
Flujo de Lámpara	1956.63 lm	Valor Máximo	390.68 cd	Posición	C=165.00 G=37.50	CG	Asimétrico

Isolux (Suelo)

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

