

Luminaire

Code 2640XX/23
Name STRUCTURAL

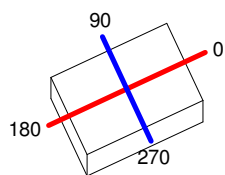
Measurem.

Code CL252A19F014G
Name 3000K CRI90

Luminaire Flux	2073.70 lm	Luminaire Power	33.00 W	Efficacy	62.84 lm/W	Efficiency	100.00%
Sources Flux	2073.70 lm	Maximum value	930.73 cd	Position	C=0.00 G=0.00	CG	Asymmetrical
Rectangular Luminaire		Length	120 mm	Width	180 mm	Height	210 mm
Rectangular Luminous Area		Length	113 mm	Width	173 mm	Height	0 mm
Horizontal Luminous Area		0.019549 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°		0.004729 m2	
Coordinate system		CG		Symmetry Type		Asymmetrical	
Date		11-06-2019		Maximum Gamma Angle		180	
Measurement Distance		6.44		Measurement Flux		2073.70 lm	
Operator		Asselum T2		Rated Voltage		Prc	
Temperature		24.40 °C		Rated Current			
Humidity		46.10 %		Photocell			
Notes		RM19060602.1					

Luminaire Lamps						
Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty	
SAMSUNG LM281B+ SG VM	1x 5751946 + 1x 5751947	1x 5751946 + 1x 5751947	2073.70	33.00	1	
C.I.E.	55 85 98 100 100	D DIN 5040	A40			
F UTE	1.00 D	B NBN	BZ 3			

120mm x 180mm



Semiplanos C

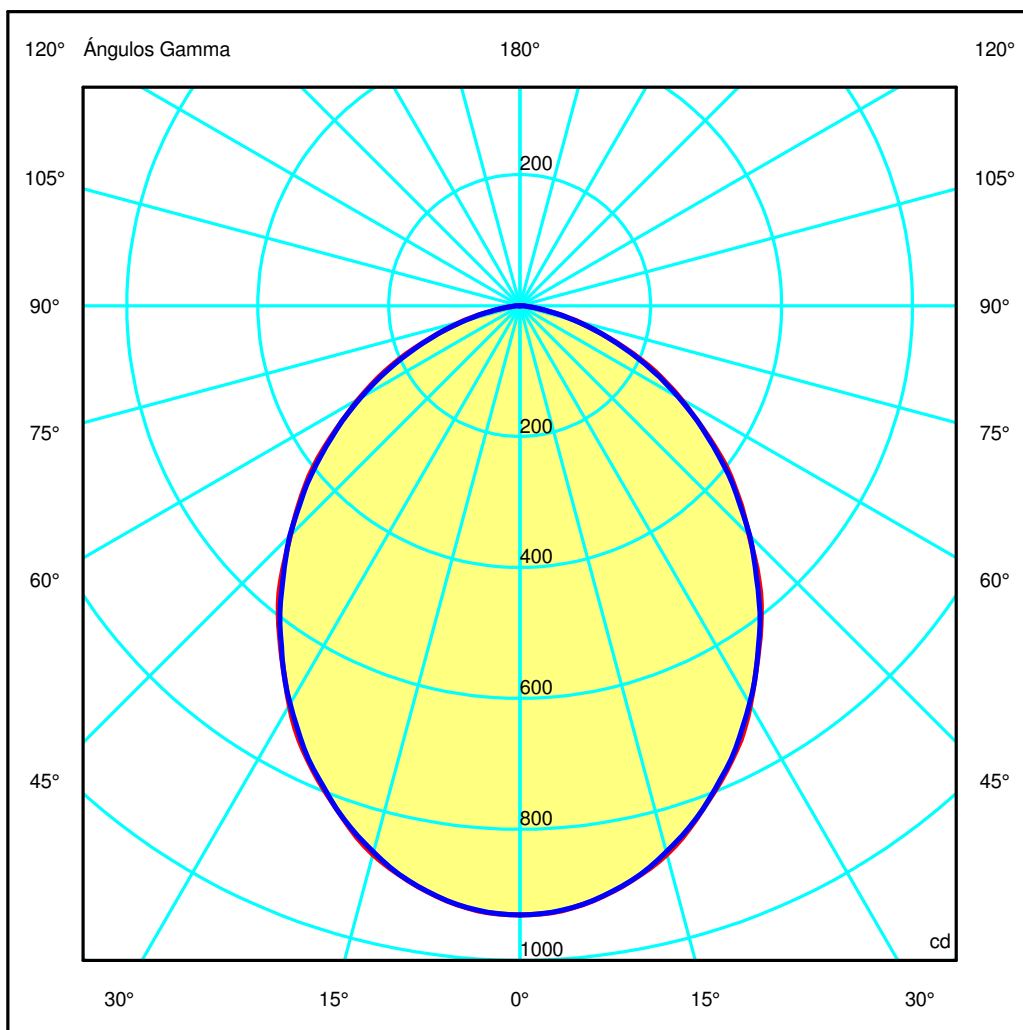
180.0 — 0.0

270.0 — 90.0

ULOR 0.01 %

DLOR 99.99 %

RN 0.01 %



Luminaire

Code 2640XX/23
Name STRUCTURAL

Measur.

Code CL252A19F014G
Name 3000K CRI90

Luminaire Flux	2073.70 lm		Luminaire Power		33.00 W		Efficacy		62.84 lm/W		Efficiency		100.00%	
Sources Flux	2073.70 lm		Maximum value		930.73 cd		Position		C=0.00 G=0.00		CG		Asymmetrical	
Luminous Intensity Table cd Table 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	931	931	931	931	931	931	931	931	931	931	931	931	931	
G 2.5	929	929	929	929	929	929	929	929	929	929	929	929	929	
G 5.0	923	923	923	923	923	923	923	923	923	923	923	923	923	
G 7.5	914	914	914	914	914	914	913	914	914	914	914	914	914	
G 10.0	901	903	901	901	900	901	900	901	900	901	901	903	901	
G 12.5	885	885	885	885	885	884	884	884	885	885	885	885	885	
G 15.0	868	865	865	866	864	864	864	864	864	866	865	865	868	
G 17.5	845	844	843	842	842	843	842	843	842	842	843	844	845	
G 20.0	818	821	820	818	818	818	818	818	818	818	820	821	818	
G 22.5	793	796	790	790	789	792	790	792	789	790	790	796	793	
G 25.0	766	762	763	762	762	762	764	762	762	762	763	762	766	
G 27.5	738	734	730	731	730	732	733	732	730	731	730	734	738	
G 30.0	704	703	700	698	699	701	702	701	699	698	700	703	704	
G 32.5	669	672	668	664	667	668	670	668	667	664	668	672	669	
G 35.0	637	640	631	629	630	634	635	634	630	629	631	640	637	
G 37.5	606	599	599	595	598	598	603	598	598	595	599	599	606	
G 40.0	572	565	560	559	560	564	566	564	560	559	560	565	572	
G 42.5	533	531	526	524	525	528	530	528	525	524	526	531	533	
G 45.0	495	497	492	487	490	493	497	493	490	487	492	497	495	
G 47.5	462	461	453	450	451	456	459	456	451	450	453	461	462	
G 50.0	428	419	419	414	418	419	425	419	418	414	419	419	428	
G 52.5	394	386	380	377	378	384	387	384	378	377	380	386	394	
G 55.0	354	351	346	342	344	347	351	347	344	342	346	351	354	
G 57.5	317	317	309	306	307	312	316	312	307	306	309	317	317	
G 60.0	284	280	273	270	272	276	280	276	272	270	273	280	284	
G 62.5	251	241	240	236	239	239	246	239	239	236	240	241	251	
G 65.0	217	209	203	201	201	207	210	207	201	201	203	209	217	
G 67.5	180	177	172	168	170	171	177	171	170	168	172	177	180	
G 70.0	146	146	139	136	135	141	145	141	135	136	139	146	146	
G 72.5	116	113	108	105	107	110	114	110	107	105	108	113	116	
G 75.0	89	81	81	78	79	81	86	81	79	78	81	81	89	
G 77.5	61	57	55	53	54	58	60	58	54	53	55	57	61	
G 80.0	36	35	35	33	35	35	38	35	35	33	35	35	36	
G 82.5	21	20	19	18	19	19	20	19	19	18	19	20	21	
G 85.0	11	10	10	9	10	11	12	11	10	9	10	10	11	
G 87.5	5	4	4	4	4	4	5	4	4	4	4	4	5	
G 90.0	1	1	1	1	1	1	1	1	1	1	1	1	1	
G 92.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 95.0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 97.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 100.0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 102.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 105.0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 107.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 110.0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 112.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 115.0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 117.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 120.0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 122.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 125.0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 127.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 130.0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 132.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 135.0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 137.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 140.0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 142.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 145.0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 147.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 150.0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 152.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 155.0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 157.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 160.0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 162.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 165.0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 167.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 170.0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 172.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 175.0	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 177.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
G 180.0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Luminaire

Code 2640XX/23
Name STRUCTURAL

Measur.

Code CL252A19F014G
Name 3000K CRI90

Luminaire Flux	2073.70 lm	Luminaire Power	33.00 W	Efficacy	62.84 lm/W	Efficiency	100.00%
Sources Flux	2073.70 lm	Maximum value	930.73 cd	Position	C=0.00 G=0.00	CG Asymmetrical	

Luminous Intensity Table cd Table 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	931	931	931	931	931	931	931	931	931	931	931
G 2.5	929	929	929	929	929	929	929	929	929	929	929
G 5.0	923	923	923	923	923	923	923	923	923	923	923
G 7.5	914	914	914	914	914	913	914	914	914	914	914
G 10.0	903	901	901	900	901	900	901	900	901	901	903
G 12.5	885	885	885	885	884	884	884	885	885	885	885
G 15.0	865	865	866	864	864	864	864	864	866	865	865
G 17.5	844	843	842	842	843	842	843	842	842	843	844
G 20.0	821	820	818	818	818	818	818	818	818	820	821
G 22.5	796	790	790	789	792	790	792	789	790	790	796
G 25.0	762	763	762	762	762	764	762	762	762	763	762
G 27.5	734	730	731	730	732	733	732	730	731	730	734
G 30.0	703	700	698	699	701	702	701	699	698	700	703
G 32.5	672	668	664	667	668	670	668	667	664	668	672
G 35.0	640	631	629	630	634	635	634	630	629	631	640
G 37.5	599	599	595	598	598	603	598	598	595	599	599
G 40.0	565	560	559	560	564	566	564	560	559	560	565
G 42.5	531	526	524	525	528	530	528	525	524	526	531
G 45.0	497	492	487	490	493	497	493	490	487	492	497
G 47.5	461	453	450	451	456	459	456	451	450	453	461
G 50.0	419	419	414	418	419	425	419	418	414	419	419
G 52.5	386	380	377	378	384	387	384	378	377	380	386
G 55.0	351	346	342	344	347	351	347	344	342	346	351
G 57.5	317	309	306	307	312	316	312	307	306	309	317
G 60.0	280	273	270	272	276	280	276	272	270	273	280
G 62.5	241	240	236	239	239	246	239	239	236	240	241
G 65.0	209	203	201	201	207	210	207	201	201	203	209
G 67.5	177	172	168	170	171	177	171	170	168	172	177
G 70.0	146	139	136	135	141	145	141	135	136	139	146
G 72.5	113	108	105	107	110	114	110	107	105	108	113
G 75.0	81	81	78	79	81	86	81	79	78	81	81
G 77.5	57	55	53	54	58	60	58	54	53	55	57
G 80.0	35	35	33	35	35	38	35	35	33	35	35
G 82.5	20	19	18	19	19	20	19	19	18	19	20
G 85.0	10	10	9	10	11	12	11	10	9	10	10
G 87.5	4	4	4	4	4	5	4	4	4	4	4
G 90.0	1	1	1	1	1	1	1	1	1	1	1
G 92.5	0	0	0	0	0	0	0	0	0	0	0
G 95.0	0	0	0	0	0	0	0	0	0	0	0
G 97.5	0	0	0	0	0	0	0	0	0	0	0
G100.0	0	0	0	0	0	0	0	0	0	0	0
G102.5	0	0	0	0	0	0	0	0	0	0	0
G105.0	0	0	0	0	0	0	0	0	0	0	0
G107.5	0	0	0	0	0	0	0	0	0	0	0
G110.0	0	0	0	0	0	0	0	0	0	0	0
G112.5	0	0	0	0	0	0	0	0	0	0	0
G115.0	0	0	0	0	0	0	0	0	0	0	0
G117.5	0	0	0	0	0	0	0	0	0	0	0
G120.0	0	0	0	0	0	0	0	0	0	0	0
G122.5	0	0	0	0	0	0	0	0	0	0	0
G125.0	0	0	0	0	0	0	0	0	0	0	0
G127.5	0	0	0	0	0	0	0	0	0	0	0
G130.0	0	0	0	0	0	0	0	0	0	0	0
G132.5	0	0	0	0	0	0	0	0	0	0	0
G135.0	0	0	0	0	0	0	0	0	0	0	0
G137.5	0	0	0	0	0	0	0	0	0	0	0
G140.0	0	0	0	0	0	0	0	0	0	0	0
G142.5	0	0	0	0	0	0	0	0	0	0	0
G145.0	0	0	0	0	0	0	0	0	0	0	0
G147.5	0	0	0	0	0	0	0	0	0	0	0
G150.0	0	0	0	0	0	0	0	0	0	0	0
G152.5	0	0	0	0	0	0	0	0	0	0	0
G155.0	0	0	0	0	0	0	0	0	0	0	0
G157.5	0	0	0	0	0	0	0	0	0	0	0
G160.0	0	0	0	0	0	0	0	0	0	0	0
G162.5	0	0	0	0	0	0	0	0	0	0	0
G165.0	0	0	0	0	0	0	0	0	0	0	0
G167.5	0	0	0	0	0	0	0	0	0	0	0
G170.0	0	0	0	0	0	0	0	0	0	0	0
G172.5	0	0	0	0	0	0	0	0	0	0	0
G175.0	0	0	0	0	0	0	0	0	0	0	0
G177.5	0	0	0	0	0	0	0	0	0	0	0
G180.0	0	0	0	0	0	0	0	0	0	0	0

Luminaire

Code 2640XX/23
Name STRUCTURAL

Measurem.

Code CL252A19F014G
Name 3000K CRI90

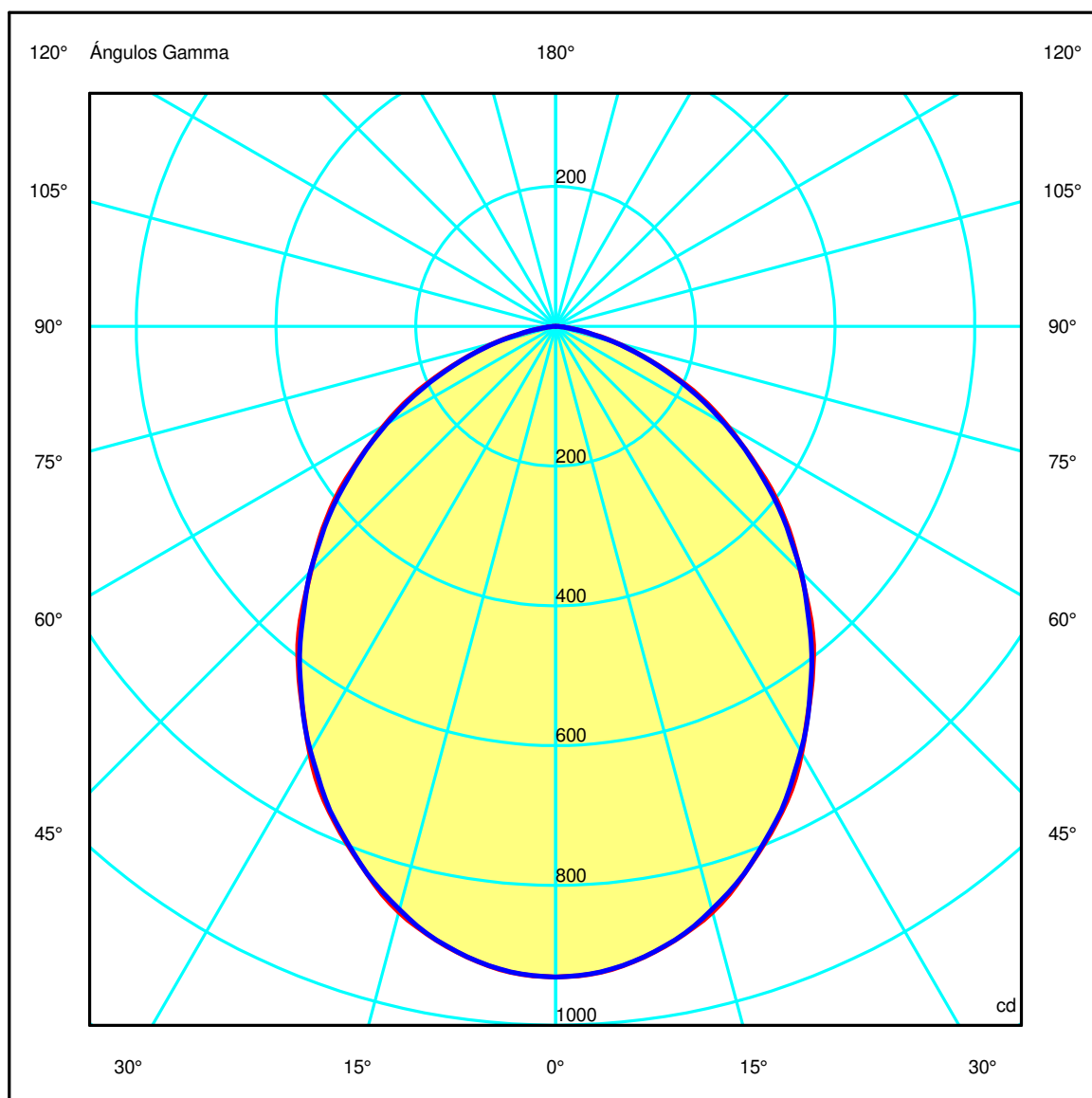
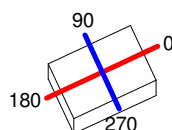
Luminaire Flux	2073.70 lm	Luminaire Power	33.00 W	Efficacy	62.84 lm/W	Efficiency	100.00%
Sources Flux	2073.70 lm	Maximum value	930.73 cd	Position	C=0.00 G=0.00	CG	Asymmetrical

120mm x 180mm

Semiplanos C

180.0 ————— 0.0

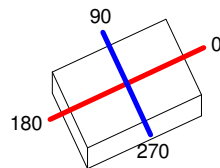
270.0 ————— 90.0



Luminaire
Code 2640XX/23
Name STRUCTURAL
Measur.
Code CL252A19F014G
Name 3000K CRI90

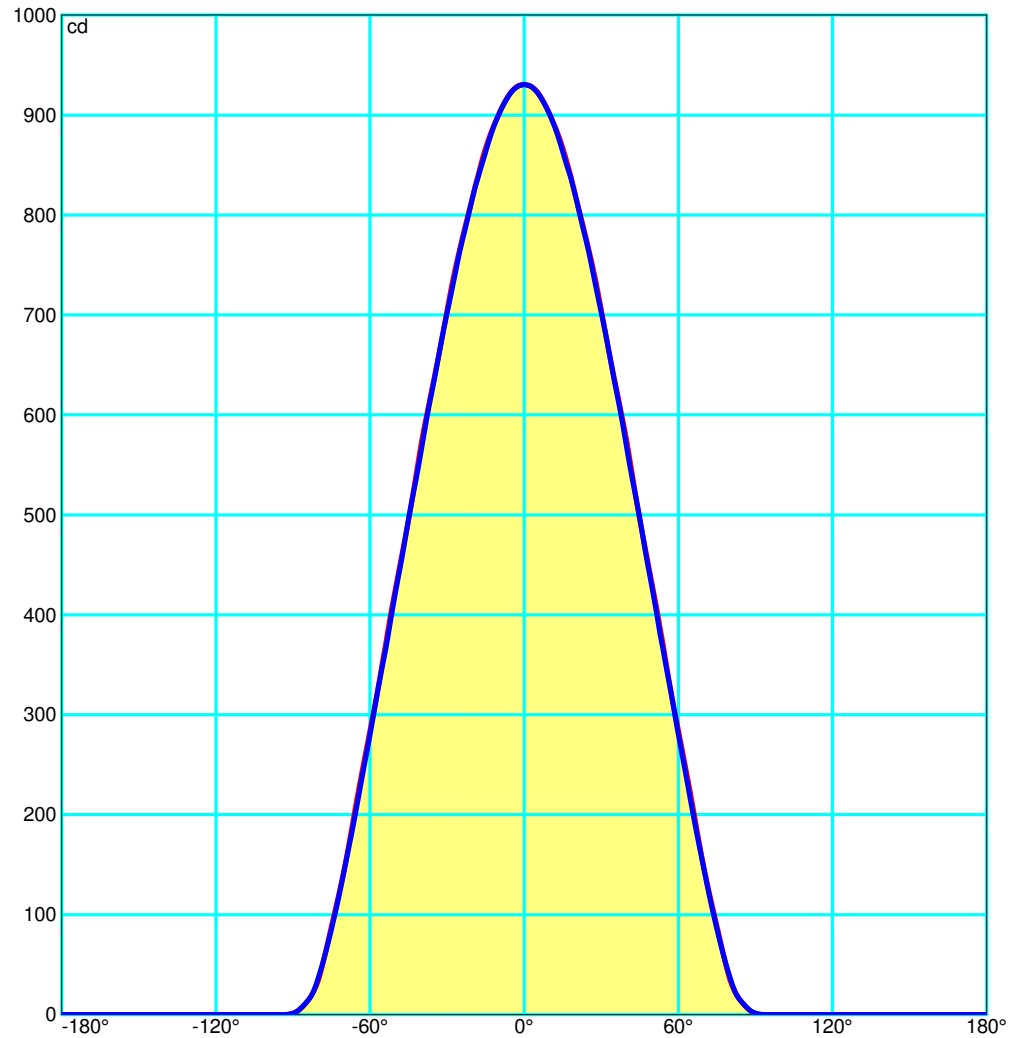
Luminaire Flux	2073.70 lm	Luminaire Power	33.00 W	Efficacy	62.84 lm/W	Efficiency	100.00%
Sources Flux	2073.70 lm	Maximum value	930.73 cd	Position	C=0.00 G=0.00	CG	Asymmetrical

120mm x 180mm



Semiplanos C

180.0	—	0.0
270.0	—	90.0



Luminaire

Code 2640XX/23
Name STRUCTURAL

Measurem.

Code CL252A19F014G
Name 3000K CRI90

Luminaire Flux	2073.70 lm	Luminaire Power	33.00 W	Efficacy	62.84 lm/W	Efficiency	100.00%
Sources Flux	2073.70 lm	Maximum value	930.73 cd	Position	C=0.00 G=0.00	CG Asymmetrical	

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
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	24.2	25.4	24.5	25.6	25.9	24.1	25.3	24.4	25.6	25.8
x=2H y=3H	25.3	26.4	25.7	26.7	27.0	25.3	26.4	25.6	26.6	26.9
x=2H y=4H	25.7	26.7	26.0	27.0	27.3	25.6	26.6	25.9	26.9	27.2
x=2H y=6H	25.8	26.8	26.2	27.1	27.4	25.7	26.7	26.1	27.0	27.3
x=2H y=8H	25.8	26.7	26.2	27.1	27.4	25.8	26.7	26.1	27.0	27.3
x=2H y=12H	25.8	26.7	26.2	27.0	27.3	25.7	26.6	26.1	26.9	27.3
x=4H y=2H	24.7	25.8	25.1	26.0	26.3	24.7	25.7	25.0	26.0	26.3
x=4H y=3H	26.0	26.9	26.4	27.2	27.6	26.0	26.8	26.3	27.2	27.5
x=4H y=4H	26.5	27.2	26.9	27.6	27.9	26.4	27.2	26.8	27.5	27.8
x=4H y=6H	26.7	27.3	27.1	27.7	28.1	26.6	27.3	27.0	27.6	28.0
x=4H y=8H	26.7	27.3	27.1	27.7	28.1	26.6	27.2	27.1	27.6	28.0
x=4H y=12H	26.7	27.2	27.1	27.7	28.1	26.6	27.2	27.1	27.6	28.0
x=8H y=4H	26.6	27.2	27.0	27.6	28.0	26.5	27.1	27.0	27.5	27.9
x=8H y=6H	26.9	27.4	27.3	27.8	28.2	26.8	27.3	27.2	27.7	28.2
x=8H y=8H	26.9	27.3	27.4	27.8	28.3	26.8	27.3	27.3	27.7	28.2
x=8H y=12H	26.9	27.3	27.4	27.8	28.3	26.9	27.2	27.4	27.7	28.2
x=12H y=4H	26.6	27.1	27.0	27.5	28.0	26.5	27.1	27.0	27.5	27.9
x=12H y=6H	26.9	27.3	27.3	27.7	28.2	26.8	27.2	27.3	27.7	28.1
x=12H y=8H	26.9	27.3	27.4	27.7	28.2	26.8	27.2	27.3	27.7	28.2

Luminaire

Code 2640XX/23
Name STRUCTURAL

Measur.

Code CL252A19F014G
Name 3000K CRI90

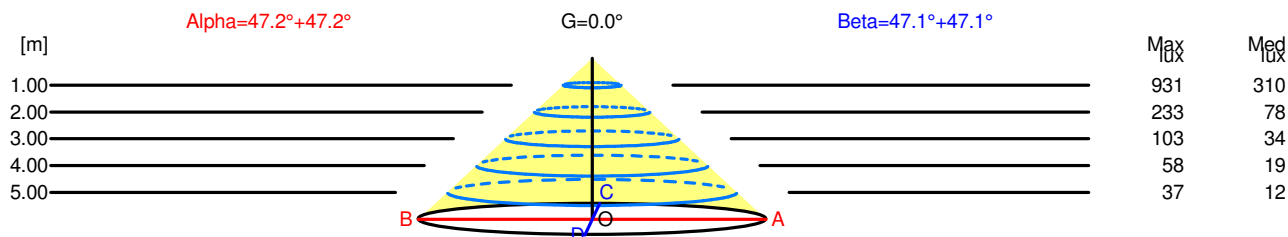
Luminaire Flux	2073.70 lm	Luminaire Power	33.00 W	Efficacy	62.84 lm/W	Efficiency	100.00%
Sources Flux	2073.70 lm	Maximum value	930.73 cd	Position	C=0.00 G=0.00	CG	Asymmetrical

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	1.08	2.16	3.24	4.32	5.41	OC	1.07	2.15	3.22	4.30	5.37
OB	1.08	2.16	3.24	4.32	5.41	OD	1.07	2.15	3.22	4.30	5.37

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	930.73	923.45	867.61	766.36	637.36	495.43	354.27	216.84	88.52	11.30
OB	930.73	923.45	867.61	766.36	637.36	495.43	354.27	216.84	88.52	11.30
OC	930.73	922.90	863.58	764.08	635.01	496.70	350.75	210.32	85.79	11.69
OD	930.73	922.90	863.58	764.08	635.01	496.70	350.75	210.32	85.79	11.69



H[m]	D[m]	Max lux	Med lux	Alpha=47.2°+47.2°	G=0.0	
1.00	2.16	931	310			
2.00	4.32	233	78			
3.00	6.49	103	34			
4.00	8.65	58	19			
5.00	10.81	37	12			

H[m]	D[m]	Max lux	Med lux	Beta=47.1°+47.1°	G=0.0	
1.00	2.15	931	310			
2.00	4.30	233	78			
3.00	6.45	103	34			
4.00	8.60	58	19			
5.00	10.75	37	12			

Luminaire

Code 2640XX/23
Name STRUCTURAL

Measurem.

Code CL252A19F014G
Name 3000K CRI90

Luminaire Flux	2073.70 lm	Luminaire Power	33.00 W	Efficacy	62.84 lm/W	Efficiency	100.00%
Sources Flux	2073.70 lm	Maximum value	930.73 cd	Position	C=0.00 G=0.00	CG Asymmetrical	

Flujo Total=2073.70 Flujo Luminaria=2073.70

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

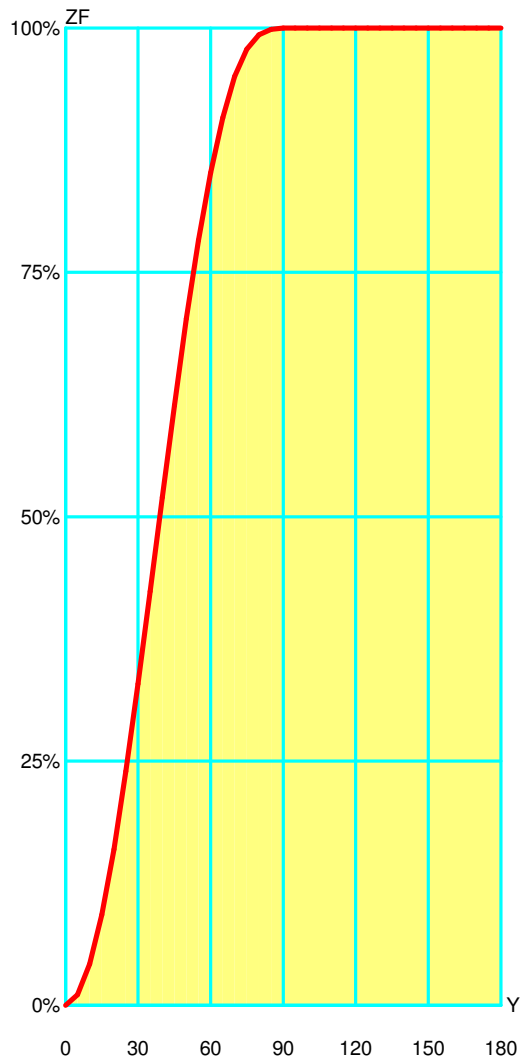
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	42	160	329	520	703	852	951	993	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Códigos de Flujo C.I.E.

55 85 98 100 100

C.I.E. 4/4/4/4/4/3/3/3/3/3
D DIN 5040 A40
F UTE 1.00 D
B NBN BZ 3
RN 0.00711 %
BLF 1.0

LOR 100.00000 %
ULOR 0.00711 %
DLOR 99.99289 %
UFF 0.00711 %
DFF 99.99289 %
FFR 0.00711 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	10.69	10.69	1.07 %	1.07 %
10°	31.47	42.16	3.15 %	4.22 %
15°	50.51	92.67	5.05 %	9.27 %
20°	66.89	159.56	6.69 %	15.96 %
25°	79.95	239.51	8.00 %	23.95 %
30°	89.24	328.76	8.92 %	32.88 %
35°	94.73	423.49	9.47 %	42.35 %
40°	96.21	519.70	9.62 %	51.97 %
45°	94.15	613.84	9.41 %	61.38 %
50°	88.70	702.55	8.87 %	70.25 %
55°	80.22	782.76	8.02 %	78.28 %
60°	69.33	852.09	6.93 %	85.21 %
65°	56.36	908.46	5.64 %	90.85 %
70°	42.21	950.66	4.22 %	95.07 %
75°	27.76	978.42	2.78 %	97.84 %
80°	14.72	993.14	1.47 %	99.31 %
85°	5.48	998.63	0.55 %	99.86 %
90°	1.30	999.93	0.13 %	99.99 %
95°	0.07	1000.00	0.01 %	100.00 %
100°	0.00	1000.00	0.00 %	100.00 %
105°	0.00	1000.00	0.00 %	100.00 %
110°	0.00	1000.00	0.00 %	100.00 %
115°	0.00	1000.00	0.00 %	100.00 %
120°	0.00	1000.00	0.00 %	100.00 %
125°	0.00	1000.00	0.00 %	100.00 %
130°	0.00	1000.00	0.00 %	100.00 %
135°	0.00	1000.00	0.00 %	100.00 %
140°	0.00	1000.00	0.00 %	100.00 %
145°	0.00	1000.00	0.00 %	100.00 %
150°	0.00	1000.00	0.00 %	100.00 %
155°	0.00	1000.00	0.00 %	100.00 %
160°	0.00	1000.00	0.00 %	100.00 %
165°	0.00	1000.00	0.00 %	100.00 %
170°	0.00	1000.00	0.00 %	100.00 %
175°	0.00	1000.00	0.00 %	100.00 %
180°	0.00	1000.00	0.00 %	100.00 %

Luminaire

Code 2640XX/23
Name STRUCTURAL

Measur.

Code CL252A19F014G
Name 3000K CRI90

Luminaire Flux	2073.70 lm	Luminaire Power	33.00 W	Efficacy	62.84 lm/W	Efficiency	100.00%
Sources Flux	2073.70 lm	Maximum value	930.73 cd	Position	C=0.00 G=0.00	CG	Asymmetrical

Isolux (Floor)

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

