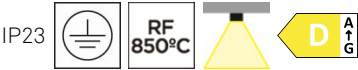
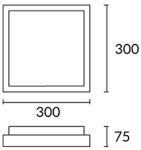


TOLEDO

15-2936-S2-M1

Plafon TOLEDO LED 19W Blanco cálido - 3000K ON-OFF Aluminio satinado 936lm

CARACTERÍSTICAS TÉCNICAS



Potencia total luminaria : 23W

Lúmenes reales : 936

Lm / W reales : 41

Temperatura de color correlacionada (CCT) : Blanco cálido - 3000K

Ángulo Ópticas / Reflector : HORIZONTAL 114°

Material de la estructura : Aluminio

Acabado estructura : Aluminio satinado

Material del difusor : Policarbonato

Acabado difusor : Matizado

Voltaje / Frecuencia : 100-240V/50-60Hz

Protocolo de regulación : ON-OFF

Power Factor : 0.90

Vida útil : 36.000h L70B30

Garantía : 5 Años

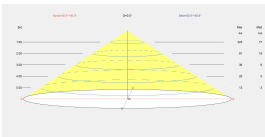
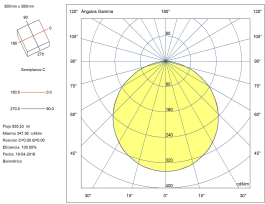
CARACTERÍSTICAS LUMINOTÉCNICAS

CRI: 80

MacAdam steps: 3

Riesgo fotobiológico: RG0

Portalámparas	Cantidad	Potencia fuente de luz (W)
LED	1	19W



LOGÍSTICA

Peso neto (Kg): 1.96

Peso embalado (Kg): 2.28

Embalaje: 370mm x 140mm x 370mm



4 Un

Luminaire

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

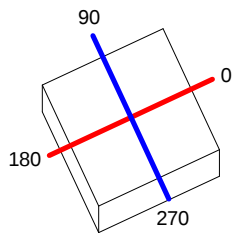
Measurment

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

Luminaire Flux	935.53 lm	Luminaire Power	20.00 W	Efficacy	46.78 lm/W	Efficiency	100.00%
Lamps Flux	935.53 lm	Maximum value	324.97 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical
Rectangular Luminaire		Length	300 mm	Width	300 mm	Height	75 mm
Rectangular Luminous Area		Length	272 mm	Width	272 mm	Height	0 mm
Horizontal Luminous Area		0.073984 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°		0.017898 m2	
Coordinate system		CG		Symmetry Type		Double Symmetrical	
Date		19-04-2016		Maximum Gamma Angle		90	
Measurement Distance		6.44		Measurement Flux		935.53 lm	
Operator		Asselum T2		Source voltage			
Temperature		24.00 °C		Source current			
Humidity		43.00 %		Photocell			
Notes						Prc	

Line		Code		Luminaire Lamps		Flux [lm]	Pow. [W]	Q.ty
- LEDS C4 LEDS		15-2936-S2-M1V1		Name Lámpara leds 19W 3000K		935.53	20.00	1
C.I.E.	47 79 96 100 100			D DIN 5040	A30			
F UTE	1.00 E			B NBN	BZ 5 / 1.25 / BZ 4			

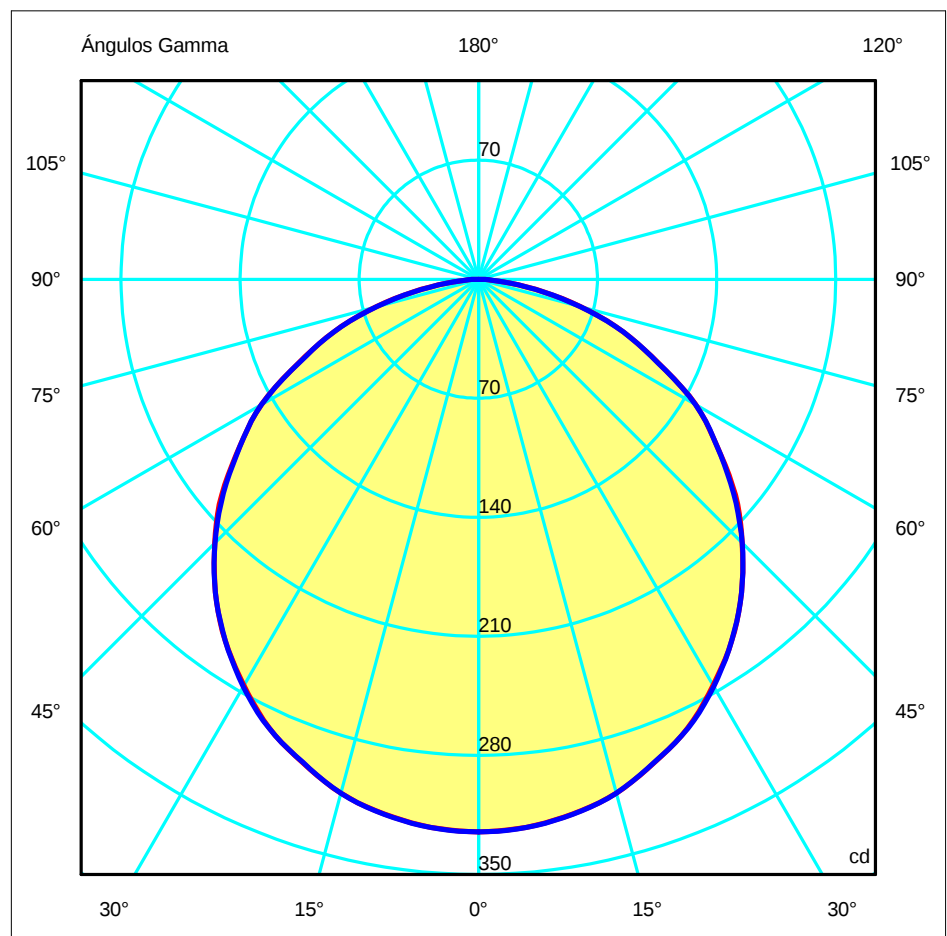
300mm x 300mm



Semiplanos C

180.0 — 0.0
270.0 — 90.0

ULOR 0.00 %
DLOR 100.00 %
RN 0.00 %



Luminaire

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

Measurem.

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

Luminaire Flux	935.53 lm	Luminaire Power	20.00 W	Efficacy	46.78 lm/W	Efficiency	100.00%
Lamps Flux	935.53 lm	Maximum value	324.97 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

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
G 0.0	324.97	324.97	324.97	324.97	324.97	324.97	324.97
G 5.0	323.40	323.46	323.57	323.51	323.54	323.56	323.55
G 10.0	319.18	319.20	319.14	319.17	319.15	319.18	319.31
G 15.0	312.77	312.88	312.45	312.40	312.53	312.10	312.74
G 20.0	302.33	302.29	302.92	302.17	302.79	303.22	302.14
G 25.0	291.08	291.07	291.08	291.07	290.58	290.60	291.23
G 30.0	275.63	275.23	276.43	276.45	276.00	276.42	276.43
G 35.0	259.50	259.55	259.53	259.49	259.37	259.42	259.39
G 40.0	240.45	240.36	240.18	240.30	240.32	240.18	240.44
G 45.0	219.20	219.14	219.15	218.93	218.85	219.25	219.08
G 50.0	197.04	197.02	196.88	195.59	196.18	195.85	195.64
G 55.0	171.26	171.29	171.79	171.07	171.78	171.32	171.13
G 60.0	147.35	147.22	146.18	146.99	145.74	146.63	147.22
G 65.0	116.88	116.96	118.23	117.49	117.83	119.31	116.63
G 70.0	90.71	90.75	90.47	90.41	90.06	90.21	90.54
G 75.0	62.04	61.70	61.58	61.70	61.55	61.44	61.80
G 80.0	34.27	34.25	34.11	34.01	33.90	33.59	33.84
G 85.0	11.13	11.32	11.03	11.20	11.28	11.07	11.21
G 90.0	0.81	0.78	0.80	0.82	0.88	0.87	0.87

Luminaire

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

Measurem.

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

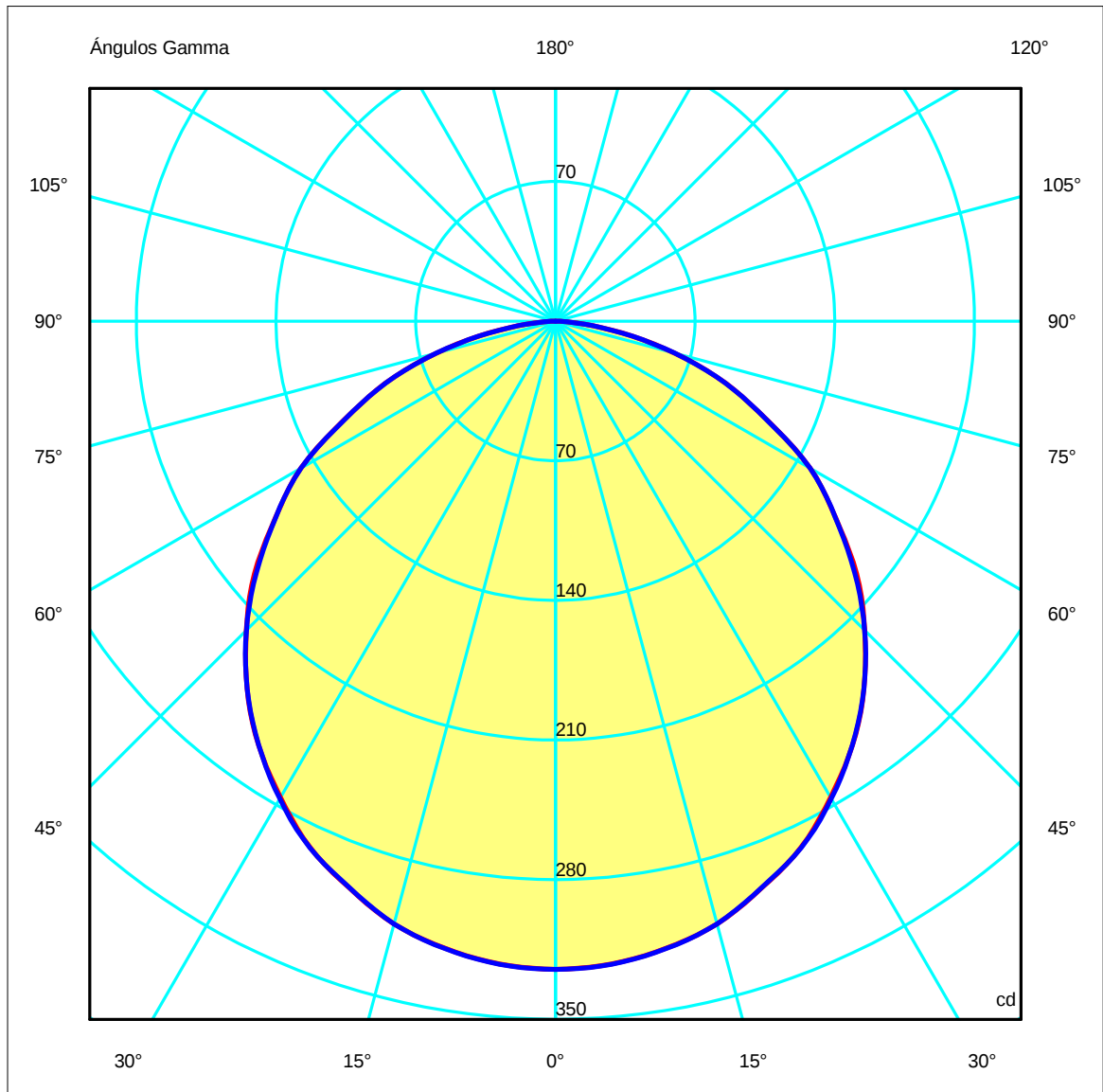
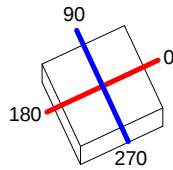
Luminaire Flux	935.53 lm	Luminaire Power	20.00 W	Efficacy	46.78 lm/W	Efficiency	100.00%
Lamps Flux	935.53 lm	Maximum value	324.97 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

300mm x 300mm

Semiplanos C

180.0 ————— 0.0

270.0 ————— 90.0



Luminaire

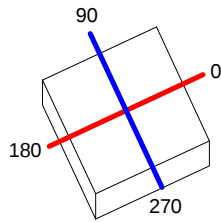
Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

Measurem.

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

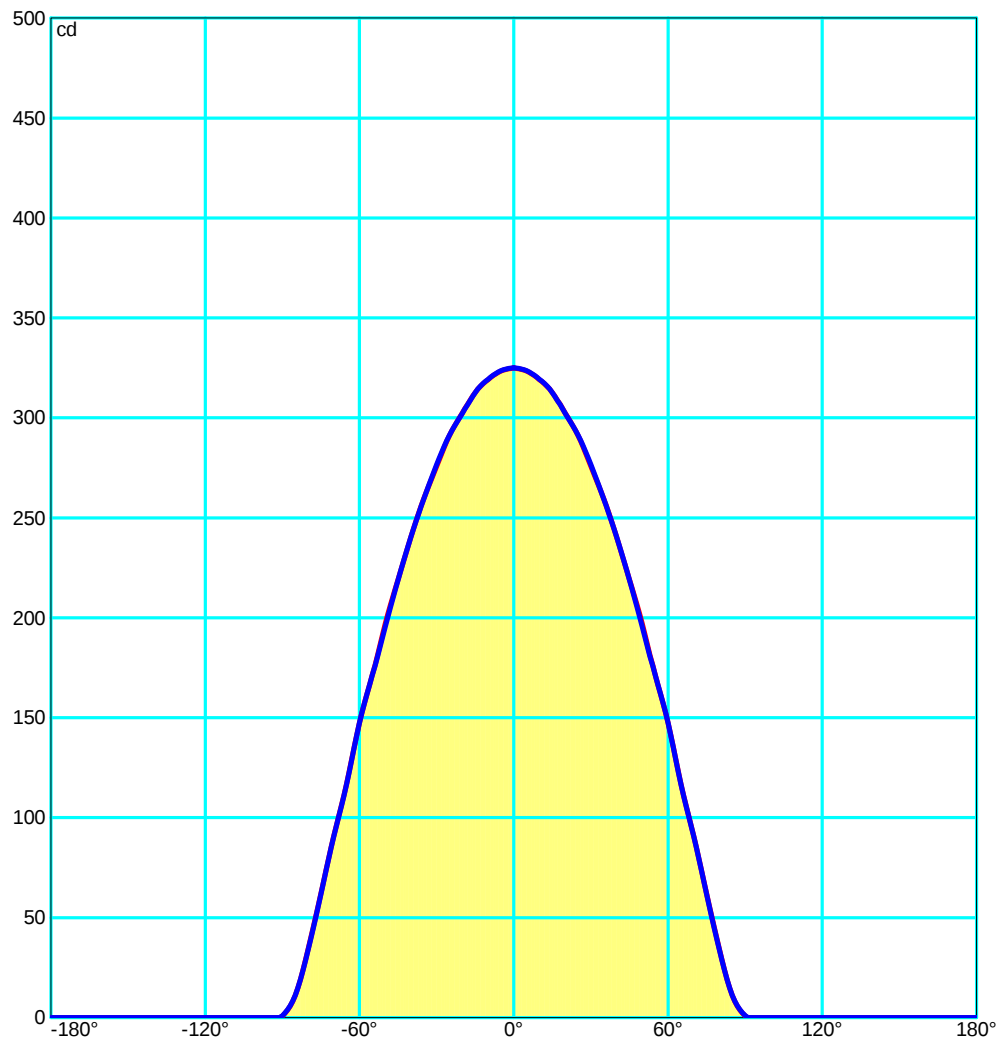
Luminaire Flux	935.53 lm	Luminaire Power	20.00 W	Efficacy	46.78 lm/W	Efficiency	100.00%
Lamps Flux	935.53 lm	Maximum value	324.97 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

300mm x 300mm



Semiplanos C

180.0 ——— 0.0
270.0 ——— 90.0



Luminaire

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

Measurem.

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

Luminaire Flux	935.53 lm	Luminaire Power	20.00 W	Efficacy	46.78 lm/W	Efficiency	100.00%
Lamps Flux	935.53 lm	Maximum value	324.97 cd	Position	C=0.00 G=0.00	CG Double Symmetrical	

Flujo Total=935.53 Flujo Luminaria=935.53

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	0.30	0.39	0.46	0.54	0.59	0.68	0.74	0.78	0.83	0.86	0.93	0.97
RC	5	5	5	5	5	5	5	5	5	5	4	4

Flujo Zonal por 1000 Lúmenes

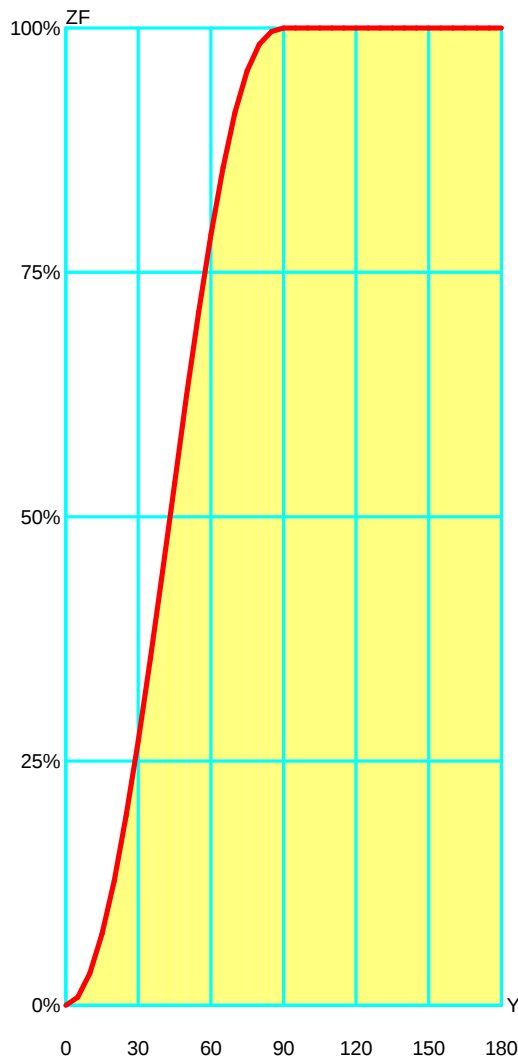
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	33	127	270	444	624	788	914	983	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Códigos de Flujo C.I.E.

47 79 96 100 100

C.I.E. 5/5/5/5/5/5/5/5/4/4
D DIN 5040 A30
F UTE 1.00 E
B NBN BZ 5 / 1.25 / BZ 4
RN 0.00000 %
BLF 1.0

LOR 100.00000 %
ULOR 0.00000 %
DLOR 100.00000 %
UFF 0.00000 %
DFF 100.00000 %
FFR 0.00000 %



Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	8.29	8.29	0.83 %	0.83 %
10°	24.58	32.86	2.46 %	3.29 %
15°	40.05	72.92	4.01 %	7.29 %
20°	54.19	127.10	5.42 %	12.71 %
25°	66.54	193.65	6.65 %	19.36 %
30°	76.70	270.35	7.67 %	27.03 %
35°	84.30	354.65	8.43 %	35.46 %
40°	89.13	443.78	8.91 %	44.38 %
45°	90.92	534.69	9.09 %	53.47 %
50°	89.72	624.41	8.97 %	62.44 %
55°	85.46	709.88	8.55 %	70.99 %
60°	78.59	788.47	7.86 %	78.85 %
65°	68.71	857.18	6.87 %	85.72 %
70°	56.35	913.53	5.63 %	91.35 %
75°	42.49	956.01	4.25 %	95.60 %
80°	27.35	983.37	2.74 %	98.34 %
85°	13.12	996.48	1.31 %	99.65 %
90°	3.52	1000.00	0.35 %	100.00 %
95°	0.00	1000.00	0.00 %	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 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

Measurem.

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

Luminaire Flux	935.53 lm	Luminaire Power	20.00 W	Efficacy	46.78 lm/W	Efficiency	100.00%
Lamps Flux	935.53 lm	Maximum value	324.97 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

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	ViewedCrosswise					ViewedEndwise				
x=2H y=2H	17.4	18.7	17.7	18.9	19.2	17.4	18.7	17.7	18.9	19.2
x=2H y=3H	19.0	20.2	19.3	20.5	20.7	19.0	20.2	19.3	20.5	20.7
x=2H y=4H	19.6	20.8	20.0	21.0	21.3	19.6	20.8	20.0	21.0	21.3
x=2H y=6H	20.1	21.1	20.4	21.4	21.7	20.0	21.1	20.4	21.4	21.7
x=2H y=8H	20.2	21.2	20.5	21.5	21.8	20.1	21.2	20.5	21.5	21.8
x=2H y=12H	20.2	21.2	20.6	21.5	21.8	20.2	21.1	20.6	21.5	21.8
x=4H y=2H	18.2	19.3	18.5	19.6	19.9	18.2	19.3	18.5	19.6	19.9
x=4H y=3H	19.9	20.9	20.3	21.2	21.6	19.9	20.9	20.3	21.2	21.6
x=4H y=4H	20.7	21.6	21.1	21.9	22.3	20.7	21.6	21.1	21.9	22.3
x=4H y=6H	21.2	22.0	21.6	22.4	22.7	21.2	22.0	21.6	22.3	22.7
x=4H y=8H	21.4	22.1	21.8	22.5	22.8	21.3	22.0	21.8	22.4	22.8
x=4H y=12H	21.4	22.1	21.9	22.5	22.9	21.4	22.0	21.9	22.4	22.9
x=8H y=4H	21.0	21.7	21.5	22.1	22.5	21.0	21.7	21.5	22.1	22.5
x=8H y=6H	21.7	22.2	22.1	22.7	23.1	21.6	22.2	22.1	22.6	23.1
x=8H y=8H	21.9	22.4	22.3	22.8	23.3	21.8	22.3	22.3	22.8	23.3
x=8H y=12H	22.0	22.4	22.5	22.9	23.3	22.0	22.4	22.4	22.8	23.3
x=12H y=4H	21.1	21.7	21.5	22.1	22.5	21.0	21.7	21.5	22.1	22.5
x=12H y=6H	21.7	22.2	22.2	22.7	23.1	21.7	22.2	22.2	22.6	23.1
x=12H y=8H	21.9	22.4	22.4	22.8	23.3	21.9	22.3	22.4	22.8	23.3

Luminaire

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

Measur.

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

Luminaire Flux	935.53 lm	Luminaire Power	20.00 W	Efficacy	46.78 lm/W	Efficiency	100.00%
Lamps Flux	935.53 lm	Maximum value	324.97 cd	Position	C=0.00 G=0.00	CG Double Symmetrical	

Utilizations CIE

Mounting	Direct				Normalization				Normalised				Suspension Ratio 1/3						Standard CIE Settings					
Ceiling																								
K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000	
0.60	218	196	172	155	186	148	111	95	87	75	46	35	17	12	70	38	33	14	11	31	12	10	0	
0.80	252	231	183	169	220	161	140	123	100	88	56	45	23	17	82	47	42	20	16	40	17	15	0	
1.00	275	256	185	173	243	166	163	146	107	96	63	52	29	22	90	54	49	25	21	47	22	20	0	
1.25	294	277	182	172	264	166	187	169	111	102	69	59	36	29	96	60	56	31	27	53	28	25	0	
1.50	308	293	178	170	279	163	206	189	114	105	74	64	42	34	99	65	61	37	33	59	33	30	0	
2.00	326	313	167	161	299	156	234	219	114	108	80	72	51	44	102	72	69	47	42	66	43	39	0	
2.50	337	326	158	154	312	149	255	241	114	109	84	77	59	52	104	77	74	54	50	71	50	47	0	
3.00	345	336	151	148	321	143	270	258	113	109	87	81	64	58	104	81	78	60	56	75	56	52	0	
4.00	356	349	142	140	334	136	292	281	113	109	92	87	72	67	105	86	83	68	65	81	64	61	0	
5.00	363	357	136	135	342	132	307	298	112	110	94	90	78	73	105	89	87	74	71	84	70	67	0	
10.00	378	375	123	123	360	121	340	335	110	109	101	98	91	88	106	97	95	88	86	93	85	82	0	
20.00	386	384	116	116	369	114	359	356	109	108	104	103	99	97	105	101	100	96	95	98	93	91	0	

Wall

K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000
0.60	469	457	411	402	451	398	355	347	321	316	269	265	232	230	313	265	264	230	230	263	230	229	209
0.80	528	515	449	441	506	435	412	402	363	357	311	306	272	270	352	306	304	271	269	302	269	268	244
1.00	566	554	469	462	542	455	452	442	389	383	339	334	301	298	377	333	331	299	297	329	297	295	268
1.25	600	588	483	477	573	470	489	479	411	405	364	359	328	324	398	358	355	324	322	352	322	320	290
1.50	623	612	492	487	596	479	518	507	425	420	383	377	348	343	413	375	373	344	341	369	341	338	305
2.00	646	636	492	488	617	480	550	539	436	432	400	394	369	364	423	391	389	364	361	384	359	356	319
2.50	659	650	488	485	630	478	570	560	441	437	409	404	381	377	427	400	398	376	373	392	370	366	327
3.00	666	658	483	481	636	473	583	574	441	438	413	409	389	384	428	404	402	382	380	396	376	371	330
4.00	679	673	481	479	649	472	605	597	446	444	424	420	403	399	433	413	412	395	393	404	388	382	338
5.00	689	684	480	479	658	472	621	614	450	448	431	428	413	409	437	421	419	405	403	411	397	391	345
10.00	706	703	475	475	675	468	653	649	456	455	445	443	434	431	443	433	433	424	423	423	415	406	356
20.00	702	701	459	458	670	452	659	656	445	445	439	438	434	432	433	428	427	422	421	416	412	402	349

Working Pl.

K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000
0.60	593	580	553	544	572	538	456	448	439	433	372	367	324	322	429	368	366	322	321	365	321	321	303
0.80	701	687	646	636	675	628	558	548	532	525	464	458	413	410	519	458	455	410	409	453	409	407	389
1.00	786	771	716	707	756	697	643	631	608	600	541	534	489	485	592	533	530	486	484	527	483	481	463
1.25	866	851	780	772	832	761	725	712	679	672	616	608	565	560	661	606	603	561	558	598	557	554	536
1.50	926	911	827	819	889	807	789	775	733	726	673	665	624	619	713	662	659	619	616	653	614	610	593
2.00	1000	999	892	886	972	873	885	871	812	805	760	753	717	710	791	747	744	709	705	736	702	696	681
2.50	1000	1000	932	927	1000	914	950	936	862	856	817	810	779	772	841	802	799	769	765	790	760	753	739
3.00	1000	1000	959	955	1000	942	997	984	897	892	858	851	823	816	875	842	839	812	808	828	802	794	780
4.00	1000	1000	991	989	1000	976	1000	1000	940	936	908	902	879	873	918	891	888	866	863	876	854	844	831
5.00	1000	1000	1000	1000	1000	996	1000	1000	966	963	939	934	915	908	944	921	919	900	896	904	886	874	862
10.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	991	987	997	985	983	973	970	966	956	940	929
20.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	999	994	976	965

LM53 SHR C0-C180: 1.250 SHR C90-C270: 1.262 SHR Square: 1.383

Luminaire

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

Measurem.

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

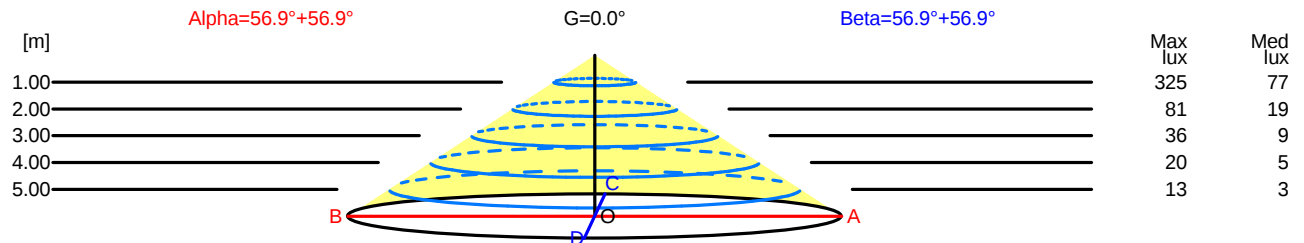
Luminaire Flux	935.53 lm	Luminaire Power	20.00 W	Efficacy	46.78 lm/W	Efficiency	100.00%
Lamps Flux	935.53 lm	Maximum value	324.97 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

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	1.53	3.07	4.60	6.13	7.67	OC	1.53	3.07	4.60	6.14	7.67
OB	1.53	3.07	4.60	6.13	7.67	OD	1.53	3.07	4.60	6.14	7.67

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	324.97	323.40	312.77	291.08	259.50	219.20	171.26	116.88	62.04	11.13
OB	324.97	323.40	312.77	291.08	259.50	219.20	171.26	116.88	62.04	11.13
OC	324.97	323.55	312.74	291.23	259.39	219.08	171.13	116.63	61.80	11.21
OD	324.97	323.55	312.74	291.23	259.39	219.08	171.13	116.63	61.80	11.21



H[m]	D[m]	Max lux	Med lux	Alpha=56.9°+56.9°	G=0.0	
1.00	3.07	325	77			
2.00	6.13	81	19			
3.00	9.20	36	9			
4.00	12.27	20	5			
5.00	15.33	13	3			

H[m]	D[m]	Max lux	Med lux	Beta=56.9°+56.9°	G=0.0	
1.00	3.07	325	77			
2.00	6.14	81	19			
3.00	9.21	36	9			
4.00	12.27	20	5			
5.00	15.34	13	3			

Luminaire

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

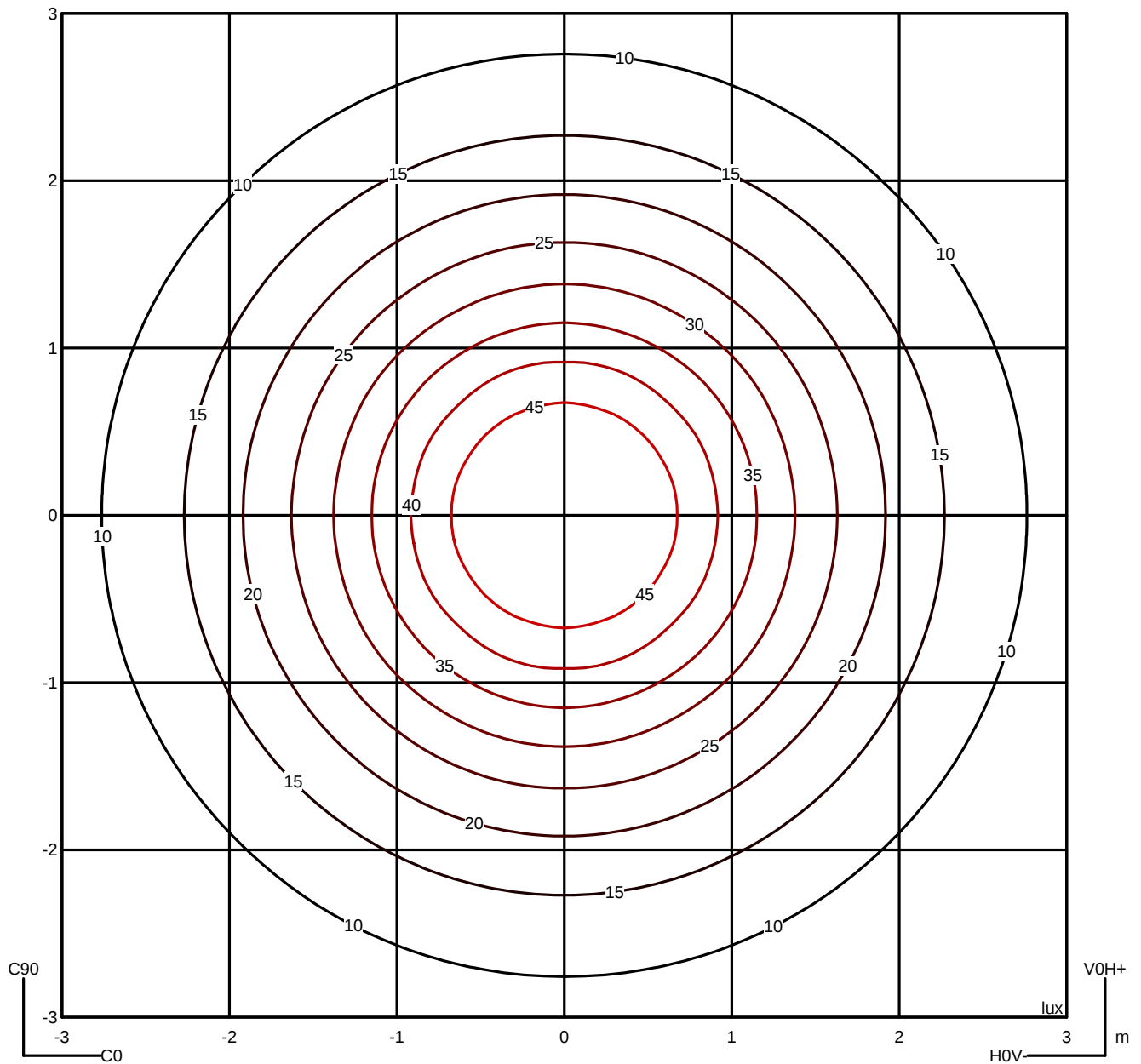
Measurment

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

Luminaire Flux	935.53 lm	Luminaire Power	20.00 W	Efficacy	46.78 lm/W	Efficiency	100.00%
Lamps Flux	935.53 lm	Maximum value	324.97 cd	Position	C=0.00 G=0.00	CG Double Symmetrical	

Isolux (Floor)

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



Luminaire

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

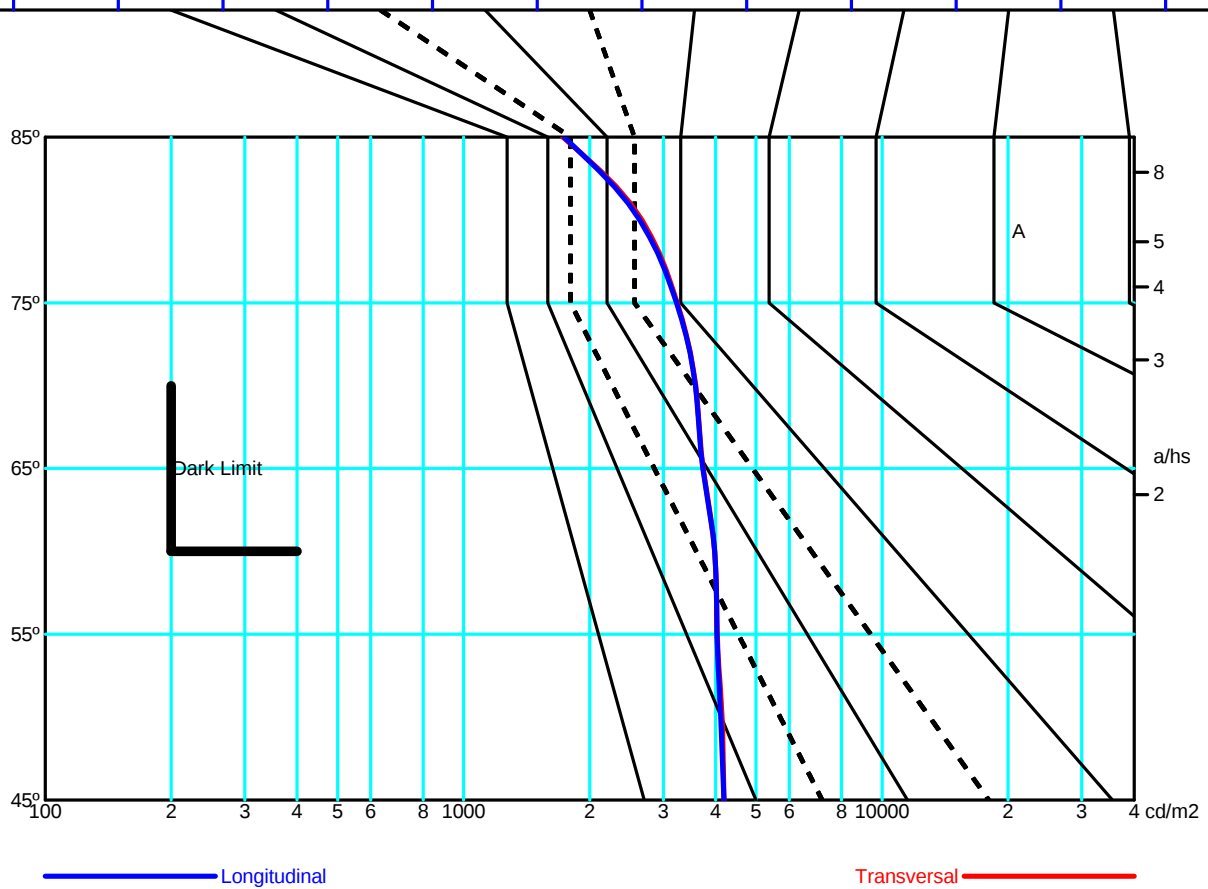
Measurment

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

Luminaire Flux	935.53 lm	Luminaire Power	20.00 W	Efficacy	46.78 lm/W	Efficiency	100.00%
Lamps Flux	935.53 lm	Maximum value	324.97 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Average Luminance [cd/m²]										
0.0°	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	4190	4143	4036	3983	3738	3585	3240	2668	1726	---
90.0°	4188	4114	4033	3980	3730	3578	3228	2634	1739	---

Flujo montado o vista longitudinal												
		Iluminancia (lx)										
A	A	2000	1000	750	500		<300					1.15
B	1		2000	1500	1000	750	500	<300				1.5
C					2000		1000	500	<300			1.85
D	2						2000	1000	500	<300		2.2
E	3							2000	1000	500	<300	2.55



Luminaire

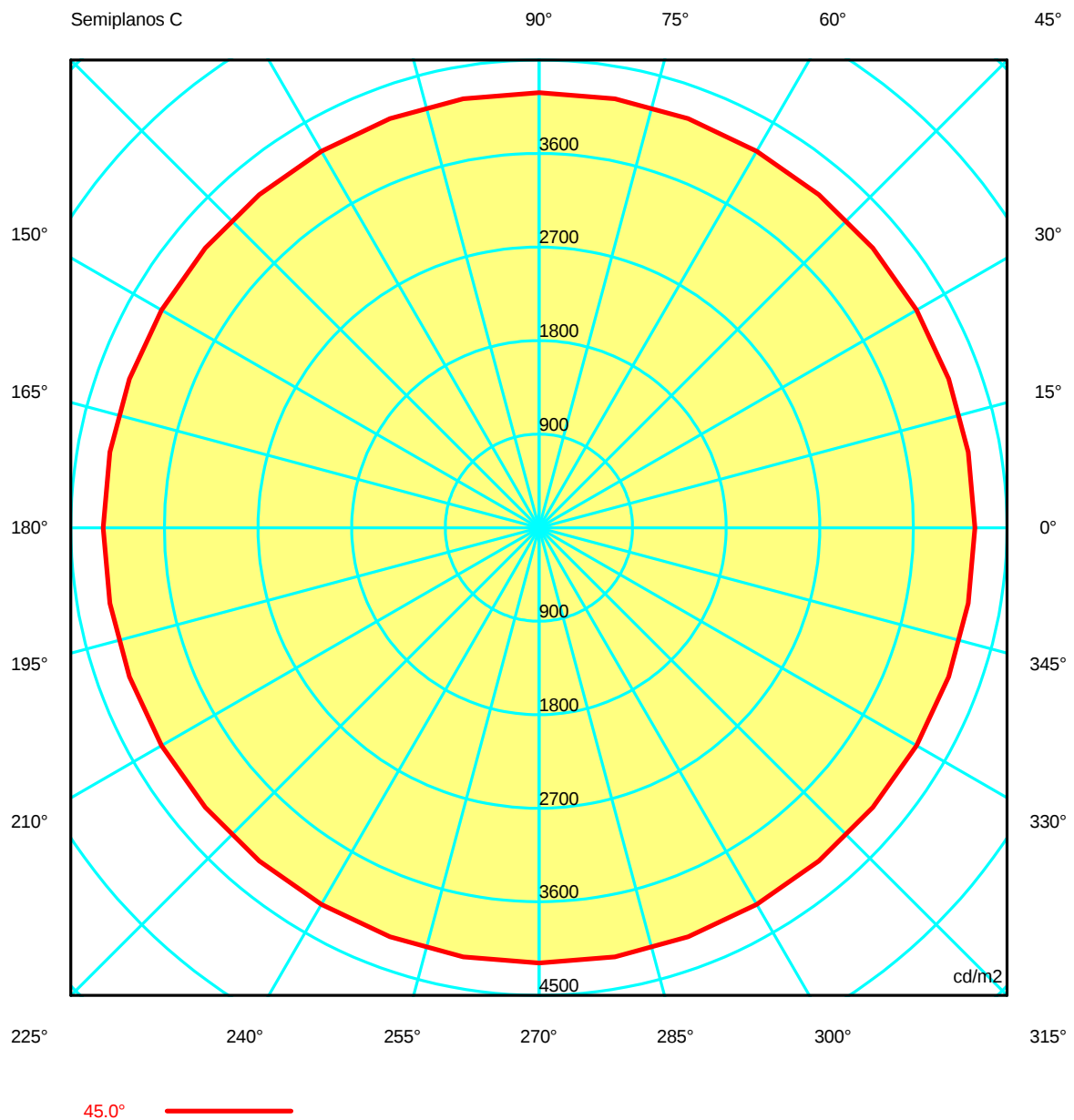
Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

Measur.

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

Luminaire Flux	935.53 lm	Luminaire Power	20.00 W	Efficacy	46.78 lm/W	Efficiency	100.00%
Lamps Flux	935.53 lm	Maximum value	324.97 cd	Position	C=0.00 G=0.00	CG Double Symmetrical	

Luminance



Luminaire

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

Measurerm.

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

Luminaire Flux		935.53 lm		Luminaire Power		20.00 W		Efficacy		46.78 lm/W		Efficiency		100.00%	
Lamps Flux		935.53 lm		Maximum value		324.97 cd		Position		C=0.00 G=0.00		CG		Double Symmetrical	
Luminance cd/m2														Table 1/3	
	C 0.00	C 10.00	C 20.00	C 30.00	C 40.00	C 50.00	C 60.00	C 70.00	C 80.00	C 90.00	C 100.00	C 110.00	C 120.00		
G 0.0	4392.37	4392.37	4392.37	4392.37	4392.37	4392.37	4392.37	4392.37	4392.37	4392.37	4392.37	4392.37	4392.37	4392.37	4392.37
G 5.0	4387.94	4388.36	4389.38	4390.26	4389.68	4389.32	4389.78	4390.05	4390.07	4390.02	4390.07	4390.05	4389.78	4389.32	4389.68
G 10.0	4380.70	4381.06	4380.78	4380.24	4380.43	4380.52	4380.28	4380.45	4381.24	4382.49	4381.24	4380.45	4380.28	4380.52	4380.78
G 15.0	4376.63	4378.49	4376.51	4372.13	4370.78	4372.09	4373.37	4368.58	4368.50	4376.21	4368.50	4368.58	4373.37	4370.78	4376.63
G 20.0	4348.66	4346.67	4351.84	4357.17	4349.59	4347.02	4355.36	4361.75	4358.26	4345.99	4358.26	4361.75	4355.36	4349.59	4348.66
G 25.0	4341.11	4341.01	4340.99	4341.11	4341.75	4338.81	4333.65	4332.58	4336.41	4343.32	4336.41	4332.58	4333.65	4338.81	4341.11
G 30.0	4301.91	4294.86	4300.87	4314.42	4316.96	4311.56	4307.70	4311.76	4314.25	4314.29	4314.25	4311.76	4307.70	4316.96	4301.91
G 35.0	4281.96	4282.52	4282.63	4282.38	4282.08	4280.96	4279.80	4280.30	4280.66	4280.02	4280.66	4280.30	4279.80	4282.08	4281.96
G 40.0	4242.62	4241.91	4239.81	4237.82	4238.94	4240.64	4240.40	4238.26	4238.57	4242.35	4238.57	4238.26	4240.40	4240.64	4242.62
G 45.0	4190.05	4188.98	4188.93	4189.12	4186.64	4183.43	4183.42	4188.87	4191.23	4187.76	4191.23	4188.87	4183.42	4186.64	4190.05
G 50.0	4143.24	4142.98	4141.89	4139.98	4119.48	4114.29	4125.24	4122.20	4115.63	4113.79	4115.63	4122.20	4125.24	4114.29	4143.24
G 55.0	4035.66	4036.15	4041.81	4048.24	4035.19	4034.89	4047.96	4042.55	4035.71	4032.76	4035.71	4042.55	4047.96	4034.89	4035.66
G 60.0	3983.18	3980.89	3968.26	3951.67	3969.09	3964.77	3939.64	3951.87	3971.93	3979.68	3971.93	3951.87	3939.64	3969.09	3983.18
G 65.0	3738.07	3739.91	3755.34	3781.18	3768.28	3752.82	3768.64	3809.28	3801.09	3729.99	3801.09	3809.28	3768.64	3768.28	3738.07
G 70.0	3584.80	3587.29	3582.77	3575.37	3574.62	3568.70	3559.11	3561.00	3569.18	3578.05	3569.18	3561.00	3559.11	3574.62	3584.80
G 75.0	3239.97	3227.35	3218.12	3215.76	3220.72	3221.36	3214.37	3208.17	3212.64	3227.62	3212.64	3208.17	3214.37	3220.72	3239.97
G 80.0	2667.83	2666.71	2662.98	2654.73	2648.82	2645.93	2638.49	2620.27	2616.60	2633.83	2616.60	2620.27	2638.49	2648.82	2667.83
G 85.0	1725.63	1755.05	1742.72	1711.15	1722.91	1747.57	1749.79	1725.49	1717.70	1739.26	1717.70	1725.49	1749.79	1747.57	1725.63
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Luminaire

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

Measurment

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

Luminaire Flux	935.53 lm	Luminaire Power	20.00 W	Efficacy	46.78 lm/W	Efficiency	100.00%
Lamps Flux	935.53 lm	Maximum value	324.97 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Luminance cd/m2 Table 2/3

	C 130.00	C 140.00	C 150.00	C 160.00	C 170.00	C 180.00	C 190.00	C 200.00	C 210.00	C 220.00	C 230.00	C 240.00	C 250.00
G 0.0	4392.37	4392.37	4392.37	4392.37	4392.37	4392.37	4392.37	4392.37	4392.37	4392.37	4392.37	4392.37	4392.37
G 5.0	4389.32	4389.68	4390.26	4389.38	4388.36	4387.94	4388.36	4389.38	4390.26	4389.68	4389.32	4389.78	4390.05
G 10.0	4380.52	4380.43	4380.24	4380.78	4381.06	4380.70	4381.06	4380.78	4380.24	4380.43	4380.52	4380.28	4380.45
G 15.0	4372.09	4370.78	4372.13	4376.51	4378.49	4376.63	4378.49	4376.51	4372.13	4370.78	4372.09	4373.37	4368.58
G 20.0	4347.02	4349.59	4357.17	4351.84	4346.67	4348.66	4346.67	4351.84	4357.17	4349.59	4347.02	4355.36	4361.75
G 25.0	4338.81	4341.75	4341.11	4340.99	4341.01	4341.11	4341.01	4340.99	4341.11	4341.75	4338.81	4333.65	4332.58
G 30.0	4311.56	4316.96	4314.42	4300.87	4294.86	4301.91	4294.86	4300.87	4314.42	4316.96	4311.56	4307.70	4311.76
G 35.0	4280.96	4282.08	4282.38	4282.63	4282.52	4281.96	4282.52	4282.63	4282.38	4282.08	4280.96	4279.80	4280.30
G 40.0	4240.64	4238.94	4237.82	4239.81	4241.91	4242.62	4241.91	4239.81	4237.82	4238.94	4240.64	4240.40	4238.26
G 45.0	4183.43	4186.64	4189.12	4188.93	4188.98	4190.05	4188.98	4188.93	4189.12	4186.64	4183.43	4183.42	4188.87
G 50.0	4114.29	4119.48	4139.98	4141.89	4142.98	4143.24	4142.98	4141.89	4139.98	4119.48	4114.29	4125.24	4122.20
G 55.0	4034.89	4035.19	4048.24	4041.81	4036.15	4035.66	4036.15	4041.81	4048.24	4035.19	4034.89	4047.96	4042.55
G 60.0	3964.77	3969.09	3951.67	3968.26	3980.89	3983.18	3980.89	3968.26	3951.67	3969.09	3964.77	3939.64	3951.87
G 65.0	3752.82	3768.28	3781.18	3755.34	3739.91	3738.07	3739.91	3755.34	3781.18	3768.28	3752.82	3768.64	3809.28
G 70.0	3568.70	3574.62	3575.37	3582.77	3587.29	3584.80	3587.29	3582.77	3575.37	3574.62	3568.70	3559.11	3561.00
G 75.0	3221.36	3220.72	3215.76	3218.12	3227.35	3239.97	3227.35	3218.12	3215.76	3220.72	3221.36	3214.37	3208.17
G 80.0	2645.93	2648.82	2654.73	2662.98	2666.71	2667.83	2666.71	2662.98	2654.73	2648.82	2645.93	2638.49	2620.27
G 85.0	1747.57	1722.91	1711.15	1742.72	1755.05	1725.63	1755.05	1742.72	1711.15	1722.91	1747.57	1749.79	1725.49
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Luminaire

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

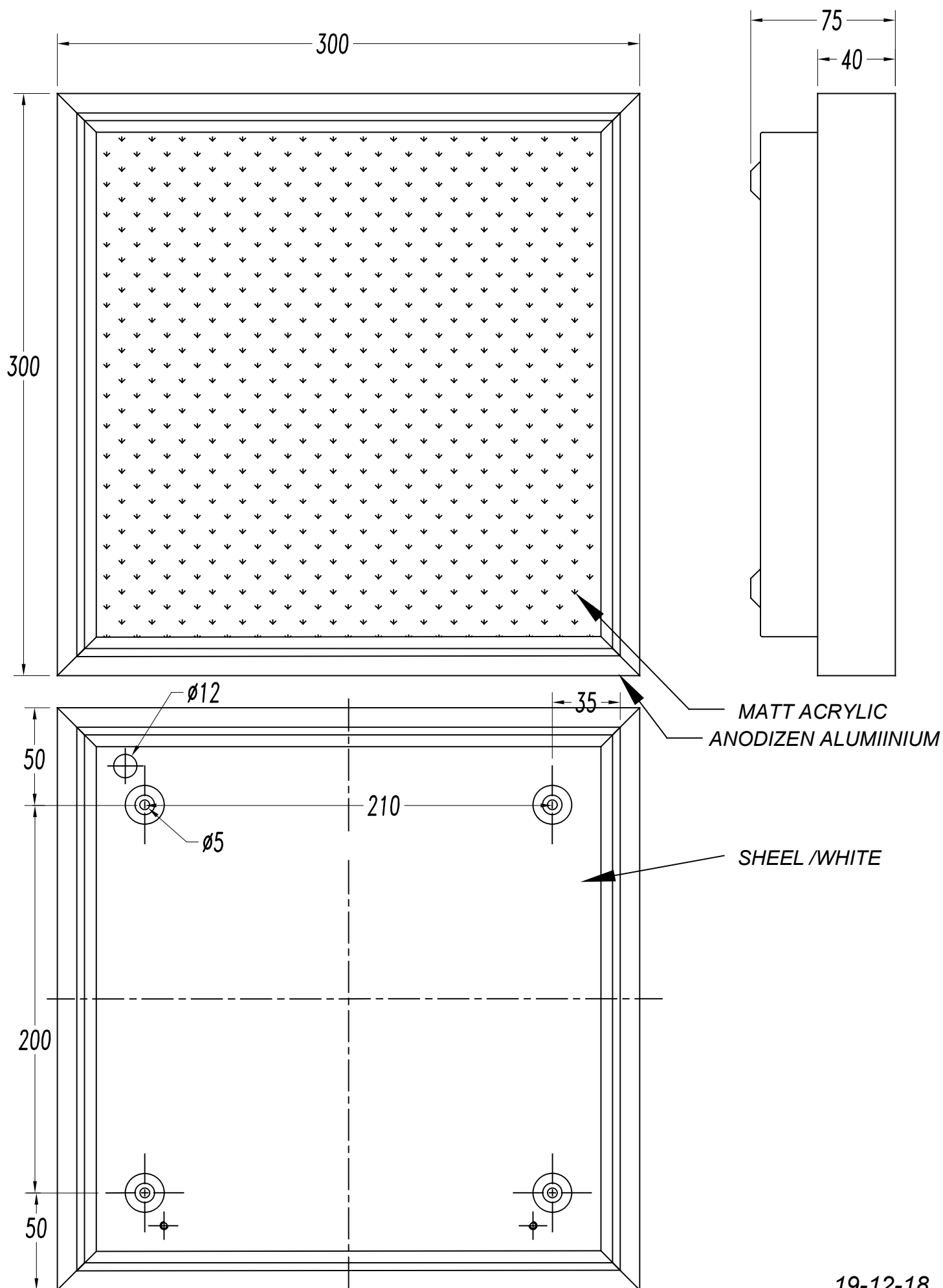
Measur.

Code 15-2936-S2-M1V1
Name Plafón TOLEDO leds 19W 3000K

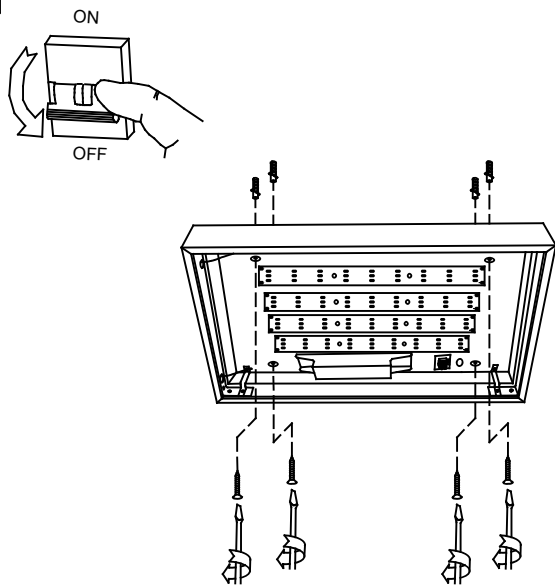
Luminaire Flux	935.53 lm	Luminaire Power	20.00 W	Efficacy	46.78 lm/W	Efficiency	100.00%
Lamps Flux	935.53 lm	Maximum value	324.97 cd	Position	C=0.00 G=0.00	CG Double Symmetrical	

Luminance cd/m2 Table 3/3

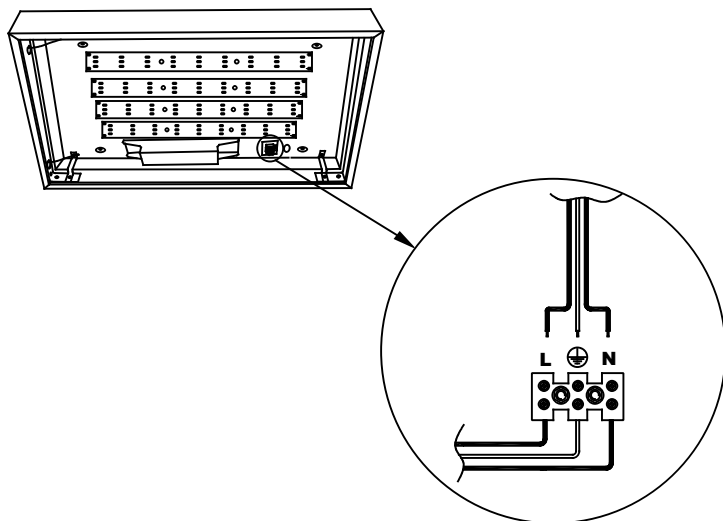
	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	4392.37	4392.37	4392.37	4392.37	4392.37	4392.37	4392.37	4392.37	4392.37	4392.37
G 5.0	4390.07	4390.02	4390.07	4390.05	4389.78	4389.32	4389.68	4390.26	4389.38	4388.36
G 10.0	4381.24	4382.49	4381.24	4380.45	4380.28	4380.52	4380.43	4380.24	4380.78	4381.06
G 15.0	4368.50	4376.21	4368.50	4368.58	4373.37	4372.09	4370.78	4372.13	4376.51	4378.49
G 20.0	4358.26	4345.99	4358.26	4361.75	4355.36	4347.02	4349.59	4357.17	4351.84	4346.67
G 25.0	4336.41	4343.32	4336.41	4332.58	4333.65	4338.81	4341.75	4341.11	4340.99	4341.01
G 30.0	4314.25	4314.29	4314.25	4311.76	4307.70	4311.56	4316.96	4314.42	4300.87	4294.86
G 35.0	4280.66	4280.02	4280.66	4280.30	4279.80	4280.96	4282.08	4282.38	4282.63	4282.52
G 40.0	4238.57	4242.35	4238.57	4238.26	4240.40	4240.64	4238.94	4237.82	4239.81	4241.91
G 45.0	4191.23	4187.76	4191.23	4188.87	4183.42	4183.43	4186.64	4189.12	4188.93	4188.98
G 50.0	4115.63	4113.79	4115.63	4122.20	4125.24	4114.29	4119.48	4139.98	4141.89	4142.98
G 55.0	4035.71	4032.76	4035.71	4042.55	4047.96	4034.89	4035.19	4048.24	4041.81	4036.15
G 60.0	3971.93	3979.68	3971.93	3951.87	3939.64	3964.77	3969.09	3951.67	3968.26	3980.89
G 65.0	3801.09	3729.99	3801.09	3809.28	3768.64	3752.82	3768.28	3781.18	3755.34	3739.91
G 70.0	3569.18	3578.05	3569.18	3561.00	3559.11	3568.70	3574.62	3575.37	3582.77	3587.29
G 75.0	3212.64	3227.62	3212.64	3208.17	3214.37	3221.36	3220.72	3215.76	3218.12	3227.35
G 80.0	2616.60	2633.83	2616.60	2620.27	2638.49	2645.93	2648.82	2654.73	2662.98	2666.71
G 85.0	1717.70	1739.26	1717.70	1725.49	1749.79	1747.57	1722.91	1711.15	1742.72	1755.05
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



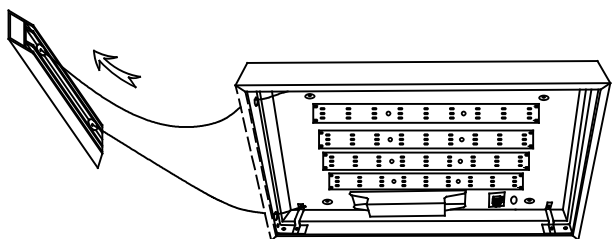
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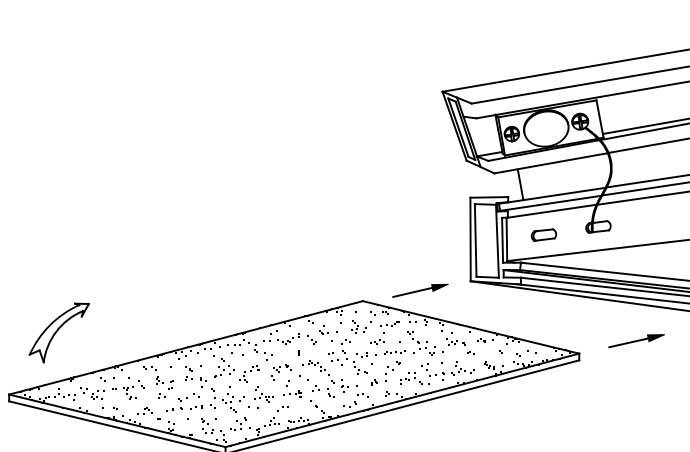
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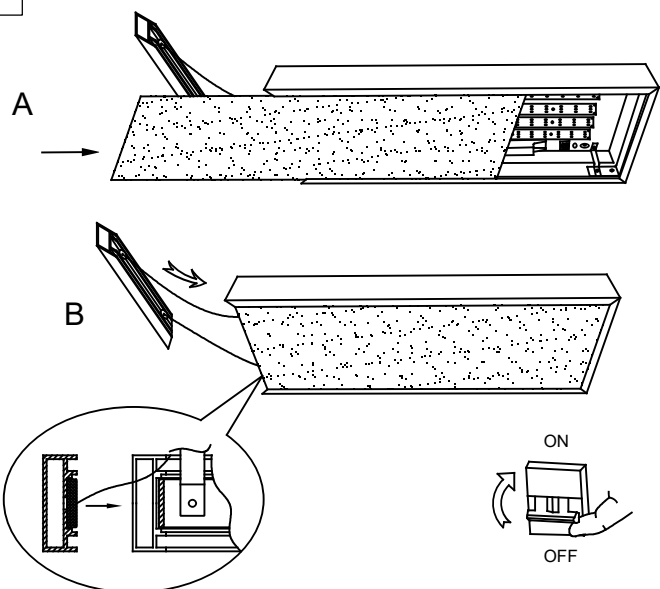
3



4



5



6

