

Luminaire

Code 05-5964-14-M1
Name Aplique DUNA led 30W

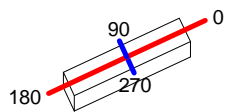
Measur.

Code CL116A17F024G
Name Aplique DUNA led 30W

Luminaire Flux	2338.84 lm	Luminaire Power	32.24 W	Efficacy	72.54 lm/W	Efficiency	100.00%
Lamps Flux	2338.84 lm	Maximum value	865.17 cd	Position	C=270.00 G=170.00	CG Sym. on planes 270-90	
Rectangular Luminaire		Length	71 mm	Width	350 mm	Height	129 mm
Rectangular Luminous Area		Length	35 mm	Width	280 mm	Height	75 mm
Horizontal Luminous Area	0.009800 m2			Emitting area on Plane 180°	0.002625 m2		
Emitting area on Plane 0°	0.002625 m2			Emitting area on Plane 270°	0.021000 m2		
Emitting area on Plane 90°	0.021000 m2			Glare area at 76°	0.004918 m2		
Coordinate system	CG			Symmetry Type	Sym. on planes 270-90		
Date	02-02-2017			Maximum Gamma Angle	180		
Measurement Distance	6.44			Measurement Flux	2338.84 lm		
Operator	Asselum T2			Source Voltage [V]	230.10 V		
Temperature	25.00 °C			Source current [A]	0.15 A		
Humidity	51.00 %			Photocell	Prc		
Notes	CG						

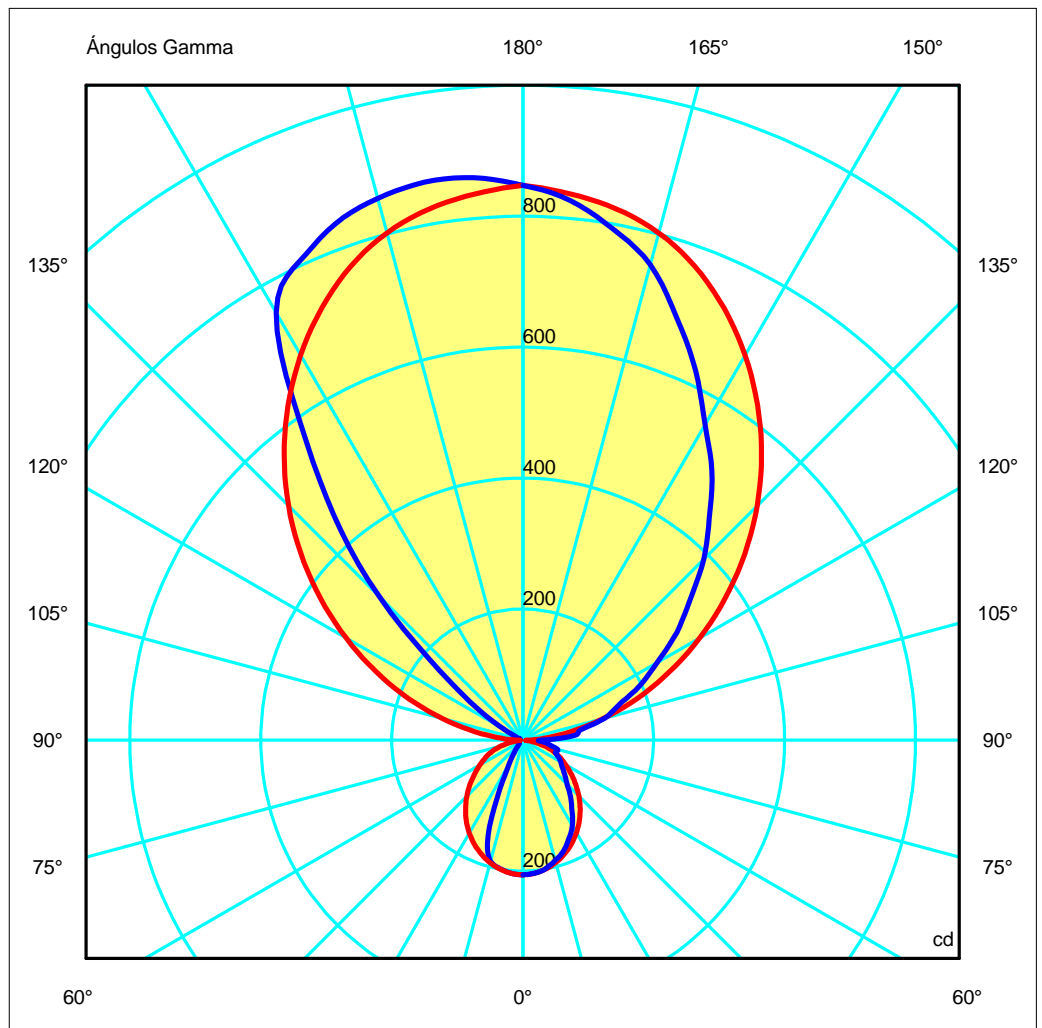
Line	Code	Luminaire Lamps	Flux [lm]	Pow. [W]	Q.ty
	05-5964-14-M1	Name Aplique DUNA led 30W	2338.84	32.24	1
C.I.E.	53 77 90 18 100	D DIN 5040	D43		
F UTE	0.18 D + 0.82 T	B NBN	BZ 3 / 0.6 / BZ 4 / 2 / BZ 5		

71mm x 350mm



Semiplanos C
270.0 — 0.0
180.0 — 90.0

ULOR 81.97 %
DLOR 18.03 %
RN 81.97 %



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Luminous Intensity Table cd Table 1/1

	C 270.00	C 285.00	C 300.00	C 315.00	C 330.00	C 345.00	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	205.61	205.61	205.61	205.61	205.61	205.61	205.61	205.61	205.61	205.61	205.61	205.61	205.61
G 5.0	204.13	204.13	204.17	204.19	204.19	204.17	204.14	204.09	204.05	204.01	203.97	203.95	203.96
G 10.0	199.21	199.10	199.02	199.21	199.57	199.82	200.00	200.10	200.04	199.87	199.66	199.43	199.33
G 15.0	191.06	191.13	191.59	191.89	192.38	192.98	193.60	193.91	193.49	192.79	191.75	190.69	190.29
G 20.0	155.35	158.40	167.66	178.80	183.36	184.29	185.28	185.63	184.73	183.82	182.14	181.09	180.73
G 25.0	83.63	89.09	112.35	148.49	170.99	174.18	175.22	175.46	174.40	172.59	170.10	167.61	166.26
G 30.0	41.50	43.52	54.22	101.05	151.49	162.54	163.54	163.72	162.21	159.41	156.37	152.82	151.14
G 35.0	23.11	24.94	31.69	54.26	121.73	148.93	150.40	150.63	148.48	144.97	140.39	134.54	130.83
G 40.0	12.99	12.76	18.81	30.65	83.74	133.21	136.10	136.42	133.86	129.53	122.21	116.38	113.25
G 45.0	7.48	7.77	9.56	19.63	49.00	115.26	120.98	121.42	118.89	113.18	105.45	99.86	95.93
G 50.0	6.92	7.07	7.43	11.08	28.20	94.15	105.42	106.12	104.26	97.39	90.81	86.39	84.11
G 55.0	6.44	6.68	7.16	7.79	17.30	70.02	90.10	91.23	90.16	84.19	78.12	76.15	73.99
G 60.0	6.33	6.64	7.07	7.52	10.49	46.44	75.76	77.36	76.80	72.77	68.79	67.63	66.72
G 65.0	6.34	6.78	7.17	7.35	7.61	28.70	62.69	64.78	64.39	63.07	60.97	60.64	59.26
G 70.0	6.46	7.06	7.37	7.37	7.18	18.07	49.49	52.99	53.10	52.84	54.01	52.92	53.01
G 75.0	6.74	7.56	7.58	7.36	7.45	11.83	34.33	41.48	44.58	43.75	47.41	52.31	55.31
G 80.0	6.65	7.86	7.72	7.45	8.46	6.85	17.20	30.74	41.48	43.78	45.97	53.78	41.91
G 85.0	5.69	7.99	7.74	7.42	8.52	4.92	5.47	25.26	44.66	56.58	62.04	50.13	32.29
G 90.0	5.18	8.11	7.69	7.38	8.46	9.77	8.36	30.70	52.61	71.05	84.80	80.00	28.03
G 95.0	5.93	8.23	7.66	7.18	11.47	25.97	32.47	51.25	64.80	78.00	85.83	88.00	78.11
G100.0	6.54	7.97	7.52	7.51	15.12	58.85	74.07	85.05	85.42	88.75	92.39	96.95	89.55
G105.0	6.21	7.18	7.34	12.64	31.77	112.74	126.83	128.86	119.72	116.57	118.16	123.17	129.17
G110.0	5.76	6.78	7.77	28.67	88.42	185.74	185.27	179.52	167.59	158.31	153.56	150.27	155.00
G115.0	6.28	13.21	29.00	69.83	170.59	265.40	247.29	234.75	222.34	207.03	196.71	189.35	197.08
G120.0	35.05	50.69	80.64	153.19	272.10	340.82	311.65	292.93	276.65	257.53	242.31	235.65	236.60
G125.0	87.00	117.98	166.21	266.64	383.75	408.69	377.08	353.45	329.45	307.86	292.79	281.42	286.98
G130.0	168.15	227.51	292.06	382.44	485.67	473.03	442.32	416.06	384.93	361.88	343.18	332.53	333.26
G135.0	310.28	360.81	421.39	508.76	563.55	536.00	506.07	479.07	443.39	415.71	397.50	385.73	390.74
G140.0	449.85	498.44	553.96	627.26	624.15	596.82	567.17	540.17	503.69	473.69	453.41	438.94	443.29
G145.0	594.11	625.74	692.82	702.83	679.13	653.89	624.91	599.01	567.89	533.54	509.17	497.19	503.26
G150.0	753.76	752.36	763.90	750.64	730.17	706.08	678.68	655.66	630.18	593.66	568.99	551.92	556.49
G155.0	806.86	803.18	801.12	790.60	773.23	751.89	727.58	708.05	684.79	657.89	632.68	618.78	623.80
G160.0	838.93	833.70	829.12	820.79	806.94	789.28	769.49	753.01	733.86	715.01	696.45	684.67	686.91
G165.0	856.60	851.47	846.76	840.07	829.91	816.59	801.98	788.70	774.88	761.34	751.08	746.98	751.75
G170.0	865.17	860.78	856.09	850.17	842.52	833.32	823.70	814.77	806.35	798.37	792.32	790.07	792.73
G175.0	862.28	859.46	855.99	851.89	847.24	842.31	837.53	833.30	829.83	827.21	825.73	825.73	827.56
G180.0	847.41	847.41	847.41	847.41	847.41	847.41	847.41	847.41	847.41	847.41	847.41	847.41	847.41

Luminaire

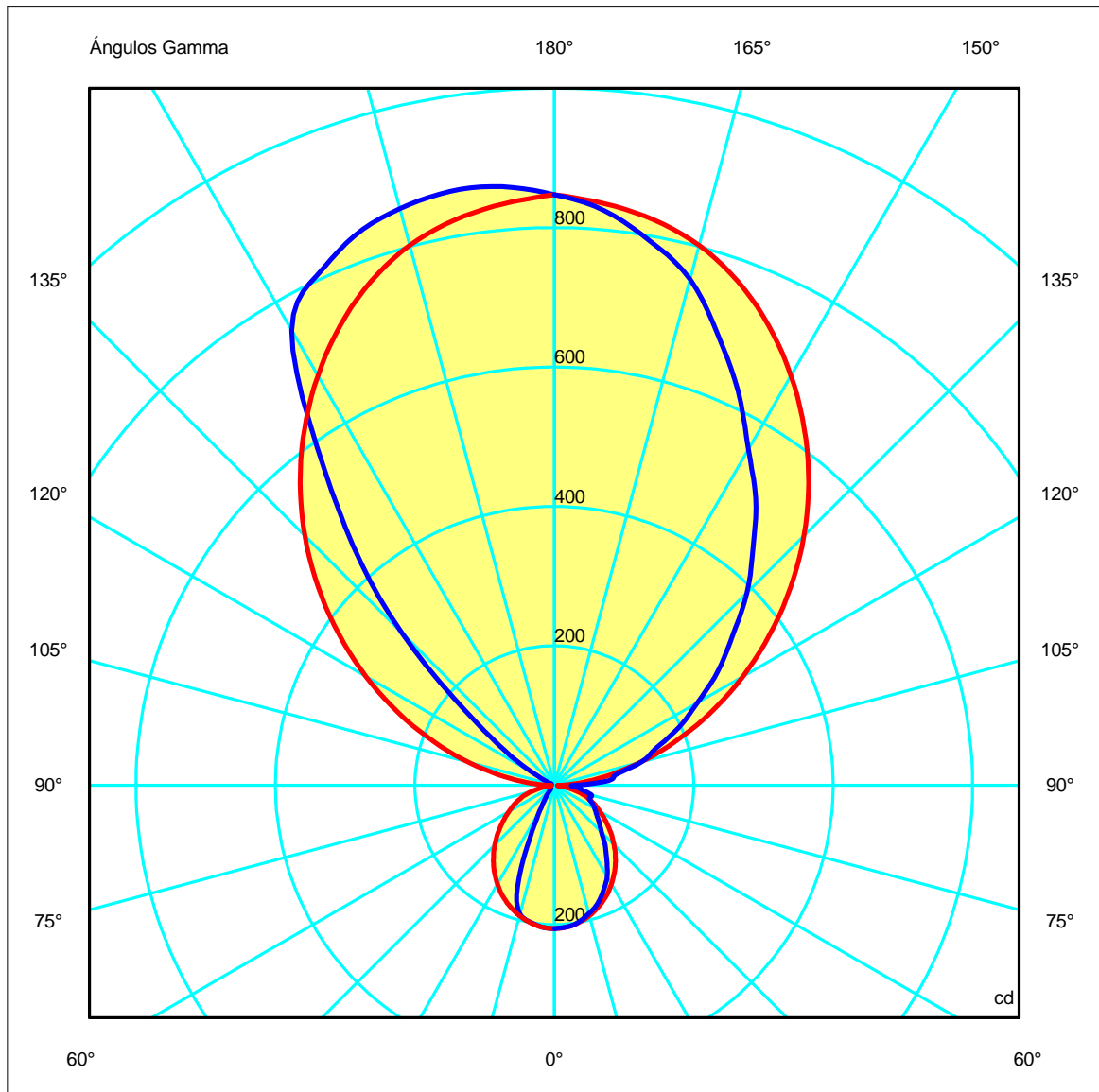
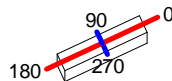
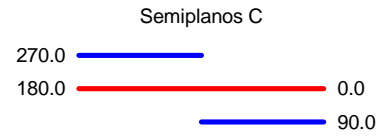
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71mm x 350mm



Luminaire

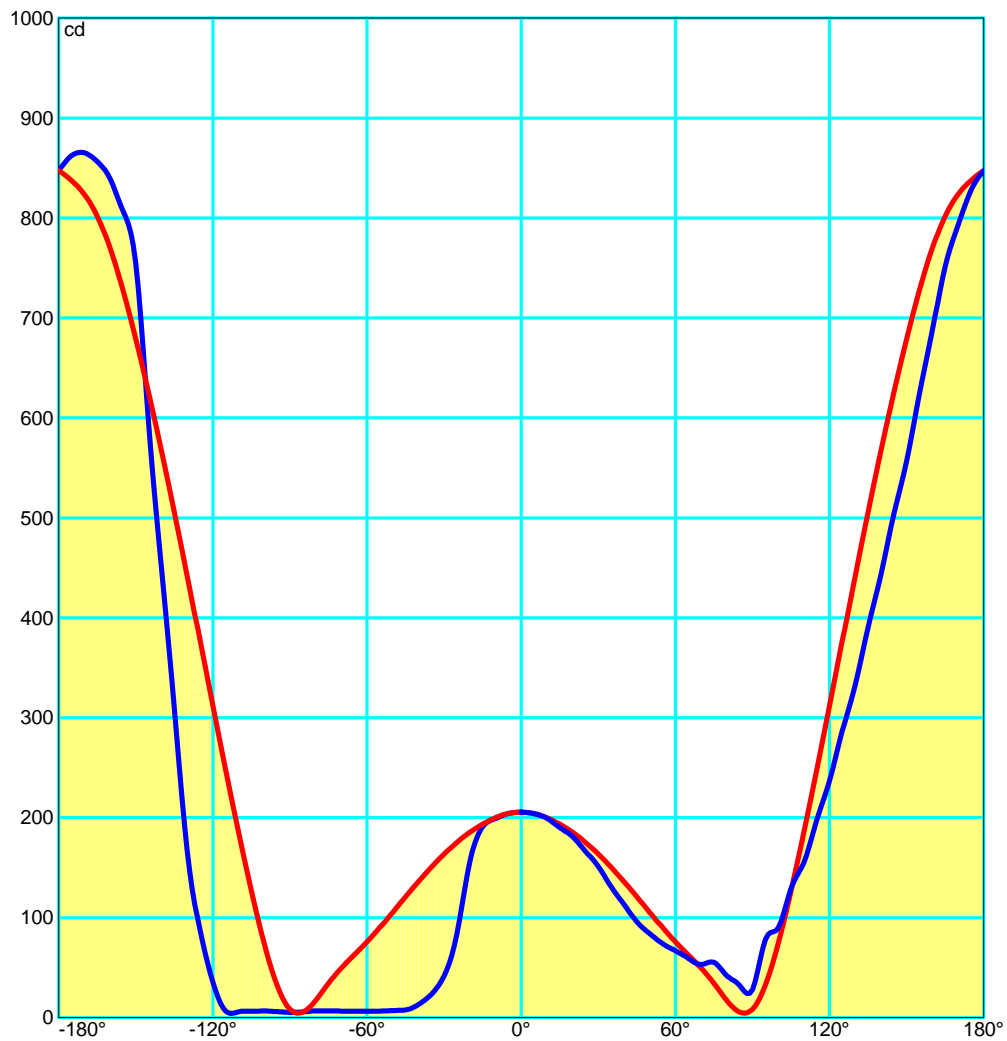
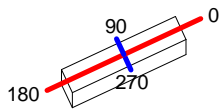
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Flujo Total=2338.84 Flujo Luminaria=2338.84

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	0.43	0.49	0.55	0.60	0.68	0.72	0.76	0.81	0.83	0.90	0.94
RC	4	4	4	5	5	5	5	5	6	6	6	6

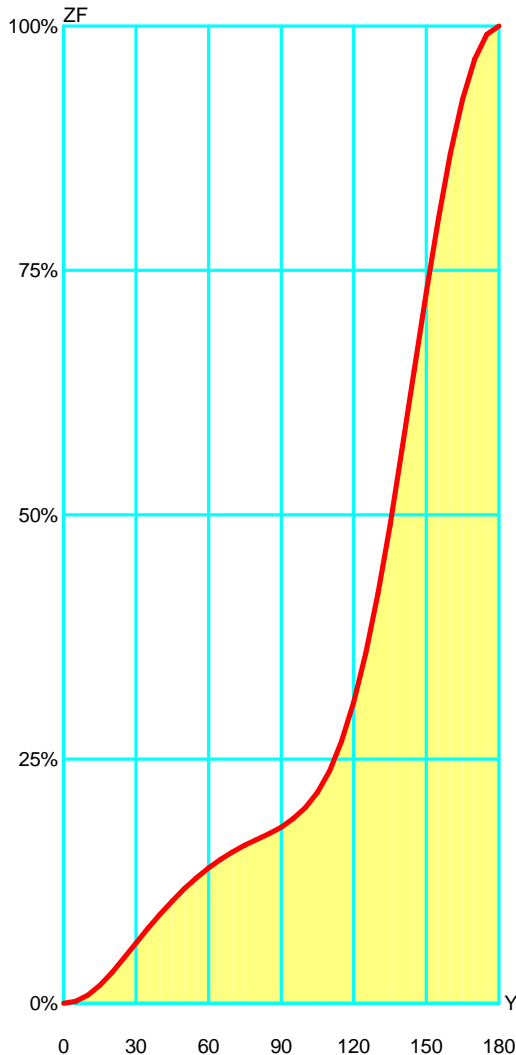
Flujo Zonal por 1000 Lúmenes

Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	8	31	62	91	117	138	155	168	180	200	238	308	419	567	727	869	966	1000

Códigos de Flujo C.I.E.

53 77 90 18 100

C.I.E.	4/4/4/5/5/5/5/6/6/6	LOR	100.00000 %
D DIN 5040	D43	ULOR	81.97247 %
F UTE	0.18 D + 0.82 T	DLOR	18.02753 %
B NBN	BZ 3 / 0.6 / BZ 4 / 2 / BZ 5	UFF	81.97247 %
RN	81.97247 %	DFF	18.02753 %
BLF	1.0	FFR	454.70703 %



Gamma °	Flujo Zonal			
	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	2.09	2.09	0.21 %	0.21 %
10°	6.17	8.27	0.62 %	0.83 %
15°	9.94	18.21	0.99 %	1.82 %
20°	13.07	31.27	1.31 %	3.13 %
25°	14.94	46.22	1.49 %	4.62 %
30°	15.43	61.65	1.54 %	6.16 %
35°	15.19	76.84	1.52 %	7.68 %
40°	14.53	91.37	1.45 %	9.14 %
45°	13.52	104.89	1.35 %	10.49 %
50°	12.36	117.25	1.24 %	11.73 %
55°	11.18	128.43	1.12 %	12.84 %
60°	9.99	138.42	1.00 %	13.84 %
65°	8.84	147.26	0.88 %	14.73 %
70°	7.75	155.01	0.78 %	15.50 %
75°	6.79	161.80	0.68 %	16.18 %
80°	6.03	167.83	0.60 %	16.78 %
85°	5.76	173.59	0.58 %	17.36 %
90°	6.69	180.28	0.67 %	18.03 %
95°	8.67	188.94	0.87 %	18.89 %
100°	11.33	200.28	1.13 %	20.03 %
105°	15.64	215.91	1.56 %	21.59 %
110°	22.03	237.94	2.20 %	23.79 %
115°	30.13	268.07	3.01 %	26.81 %
120°	39.82	307.89	3.98 %	30.79 %
125°	50.42	358.31	5.04 %	35.83 %
130°	60.93	419.24	6.09 %	41.92 %
135°	70.27	489.51	7.03 %	48.95 %
140°	77.14	566.65	7.71 %	56.67 %
145°	80.60	647.25	8.06 %	64.73 %
150°	80.13	727.38	8.01 %	72.74 %
155°	75.31	802.70	7.53 %	80.27 %
160°	66.74	869.44	6.67 %	86.94 %
165°	55.23	924.67	5.52 %	92.47 %
170°	41.24	965.91	4.12 %	96.59 %
175°	25.46	991.37	2.55 %	99.14 %
180°	8.63	1000.00	0.86 %	100.00 %

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Utilizations CIE

Mounting	Direct	Normalization		Normalised		Suspension Ratid/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	763	686	733	661	652	631	610	518	596	509	573	432	556	379	475	462	409	453	361	387	382	330	307
0.80	836	767	789	727	729	695	680	595	657	578	630	501	610	446	540	525	474	513	425	450	442	389	364
1.00	886	824	822	769	784	737	733	654	699	628	670	553	649	498	588	571	524	558	475	497	489	436	410
1.25	930	876	848	804	834	772	782	710	735	672	707	601	684	547	632	615	571	600	524	544	535	482	455
1.50	962	914	865	827	870	796	819	754	761	705	733	638	710	586	665	647	607	633	562	580	570	519	492
2.00	1000	965	883	854	920	825	873	817	794	749	769	690	747	643	710	693	660	679	618	632	622	575	546
2.50	1000	998	892	869	952	842	909	860	815	778	792	725	772	682	740	724	695	711	657	667	659	614	586
3.00	1000	1000	898	878	975	854	936	893	829	797	808	750	789	710	761	747	721	734	686	694	685	643	615
4.00	1000	1000	904	889	1000	867	972	937	847	822	830	784	813	750	789	776	756	765	727	730	722	684	656
5.00	1000	1000	907	895	1000	875	995	966	858	838	843	805	829	776	806	796	778	785	753	753	746	711	683
10.00	1000	1000	911	905	1000	890	1000	1000	880	870	871	851	862	833	843	837	827	830	812	805	800	773	745
20.00	1000	1000	912	909	1000	896	1000	1000	891	885	886	875	881	866	862	859	854	855	845	833	831	808	781

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	322	280	284	248	258	229	203	161	185	147	155	101	133	72	127	108	88	94	63	76	66	46	35
0.80	382	340	327	293	309	267	252	206	223	184	191	133	168	99	155	134	112	119	83	94	83	57	41
1.00	426	385	356	324	347	294	290	244	252	213	220	160	195	123	176	155	132	139	102	108	97	64	46
1.25	466	429	382	353	384	319	327	282	278	241	247	188	222	150	196	176	153	160	122	122	111	72	50
1.50	497	462	400	374	412	336	357	314	299	264	269	212	244	173	212	193	171	177	139	133	123	79	54
2.00	539	509	421	400	450	359	401	361	326	296	299	247	276	209	235	217	196	202	166	150	140	88	59
2.50	566	540	435	417	476	373	431	395	344	318	320	273	298	237	250	234	215	220	186	162	153	95	62
3.00	586	563	444	429	495	383	454	421	358	334	335	293	315	258	261	247	229	233	202	171	162	100	65
4.00	615	596	458	446	522	398	488	459	377	357	358	322	341	292	279	266	251	254	227	185	178	109	70
5.00	634	618	468	457	541	409	511	486	391	374	374	343	358	316	291	280	267	269	245	195	189	116	75
10.00	679	670	491	485	585	434	567	552	424	414	413	395	403	377	322	314	307	308	293	223	219	136	89
20.00	708	703	507	504	614	452	603	595	446	441	440	429	434	419	343	339	334	335	326	243	241	152	101

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	387	343	361	321	315	296	248	206	239	199	201	146	173	113	172	147	127	129	100	111	98	76	64
0.80	482	434	444	402	394	367	323	273	308	262	266	199	235	158	221	194	169	173	135	142	128	94	77
1.00	557	510	508	467	459	424	387	333	366	317	322	249	289	202	262	235	207	213	169	170	156	111	89
1.25	630	584	568	530	522	478	451	396	423	374	380	302	345	251	305	277	248	255	206	198	184	127	100
1.50	687	642	613	578	572	520	503	448	467	419	425	348	391	294	338	311	282	289	239	221	207	140	108
2.00	768	728	676	646	644	579	581	529	533	489	494	420	462	366	389	365	336	343	293	258	245	161	122
2.50	822	787	717	691	694	618	636	588	578	538	543	474	512	422	425	402	375	382	334	284	272	176	131
3.00	861	830	746	723	730	647	678	633	610	574	578	515	550	465	451	430	405	412	366	303	292	187	137
4.00	914	888	784	765	778	683	734	696	653	623	626	572	602	528	486	469	447	453	412	330	320	202	145
5.00	947	925	807	791	809	706	771	738	681	656	658	611	636	571	509	494	475	480	444	347	339	211	150
10.00	1000	1000	856	847	877	756	854	834	741	727	727	700	714	675	560	551	540	542	520	388	383	234	163
20.00	1000	1000	882	877	914	782	901	891	775	767	767	752	759	737	589	584	578	579	567	412	409	248	170

LM53 SHR C0-C180: 1.178 SHR C90-C270: 1.109 SHR Square: 1.265

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Measurement

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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
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	11.7	12.3	12.8	13.4	< 0	< 0	< 0	< 0	< 0	< 0
x=2H y=3H	13.0	13.5	14.2	14.7	< 0	< 0	< 0	< 0	< 0	< 0
x=2H y=4H	13.5	14.0	14.7	15.2	0.6	< 0	< 0	< 0	< 0	0.6
x=2H y=6H	13.8	14.3	15.0	15.4	1.6	< 0	< 0	< 0	< 0	1.6
x=2H y=8H	13.9	14.3	15.0	15.5	2.1	< 0	< 0	0.1	0.5	2.1
x=2H y=12H	13.8	14.2	15.0	15.4	2.6	< 0	< 0	0.5	0.9	2.6
x=4H y=2H	11.6	12.1	12.7	13.2	< 0	< 0	< 0	< 0	< 0	< 0
x=4H y=3H	13.0	13.4	14.2	14.6	0.9	< 0	< 0	< 0	< 0	0.9
x=4H y=4H	13.6	14.0	14.8	15.2	1.9	< 0	< 0	< 0	0.3	1.9
x=4H y=6H	14.1	14.4	15.3	15.6	3.1	< 0	0.2	1.1	1.4	3.1
x=4H y=8H	14.2	14.4	15.4	15.6	3.7	0.5	0.8	1.7	2.0	3.7
x=4H y=12H	14.2	14.4	15.4	15.6	4.2	1.0	1.3	2.3	2.5	4.2
x=8H y=4H	13.6	13.9	14.8	15.1	2.5	< 0	< 0	0.5	0.8	2.5
x=8H y=6H	14.2	14.4	15.4	15.6	3.9	0.8	1.0	2.0	2.2	3.9
x=8H y=8H	14.4	14.6	15.7	15.9	4.7	1.5	1.7	2.8	3.0	4.7
x=8H y=12H	14.6	14.8	15.8	16.0	5.4	2.3	2.5	3.5	3.7	5.4
x=12H y=4H	13.6	13.8	14.8	15.0	2.7	< 0	< 0	0.7	1.0	2.7
x=12H y=6H	14.2	14.4	15.5	15.7	4.2	1.0	1.2	2.2	2.4	4.2
x=12H y=8H	14.5	14.7	15.8	15.9	5.0	1.9	2.0	3.1	3.3	5.0

Luminaire

 Code 05-5964-14-M1
 Name Aplique DUNA led 30W

Measurement

 Code CL116A17F024G
 Name Aplique DUNA led 30W

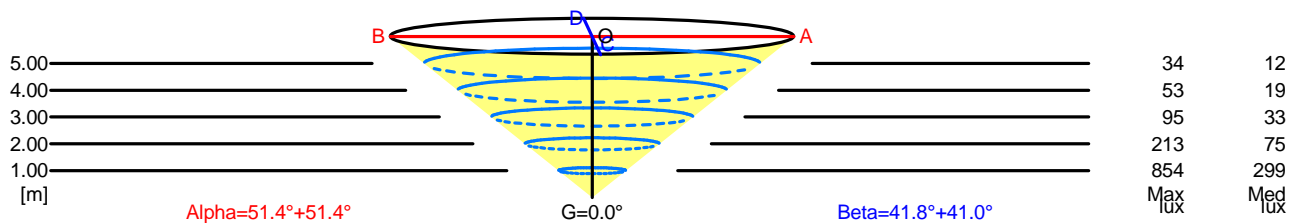
Luminaire Flux	2338.84 lm	Luminaire Power	32.24 W	Efficacy	72.54 lm/W	Efficiency	100.00%
Lamps Flux	2338.84 lm	Maximum value	865.17 cd	Position	C=270.00 G=170.00	CG	Sym. on planes 270-90

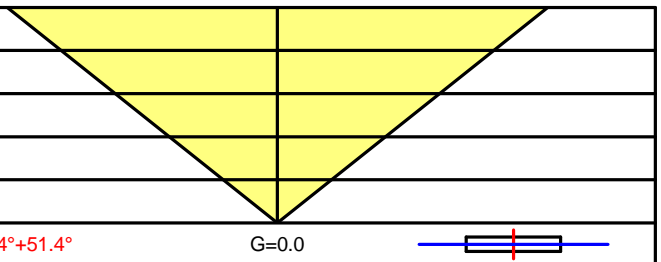
Width at 50.00 % of Max Intensity

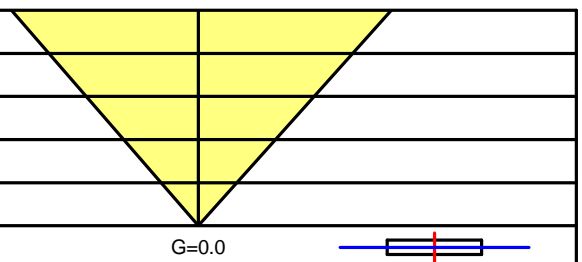
H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	1.25	2.51	3.76	5.02	6.27	OC	0.90	1.79	2.69	3.58	4.48
OB	1.25	2.51	3.76	5.02	6.27	OD	0.87	1.74	2.61	3.47	4.34

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	847.41	837.53	801.98	727.58	624.91	506.07	377.08	247.29	126.83	32.47
OB	847.41	837.53	801.98	727.58	624.91	506.07	377.08	247.29	126.83	32.47
OC	847.41	827.56	751.75	623.80	503.26	390.74	286.98	197.08	129.17	78.11
OD	847.41	862.28	856.60	806.86	594.11	310.28	87.00	6.28	6.21	5.93



5.00	12.54	34	12	
4.00	10.03	53	19	
3.00	7.52	95	33	
2.00	5.02	213	75	
1.00	2.51	854	299	
H[m]	D[m]	Max lux	Med lux	

5.00	8.82	34	12	
4.00	7.05	53	19	
3.00	5.29	95	33	
2.00	3.53	213	75	
1.00	1.76	854	299	
H[m]	D[m]	Max lux	Med lux	

Luminaire

Code 05-5964-14-M1
 Name Aplique DUNA led 30W

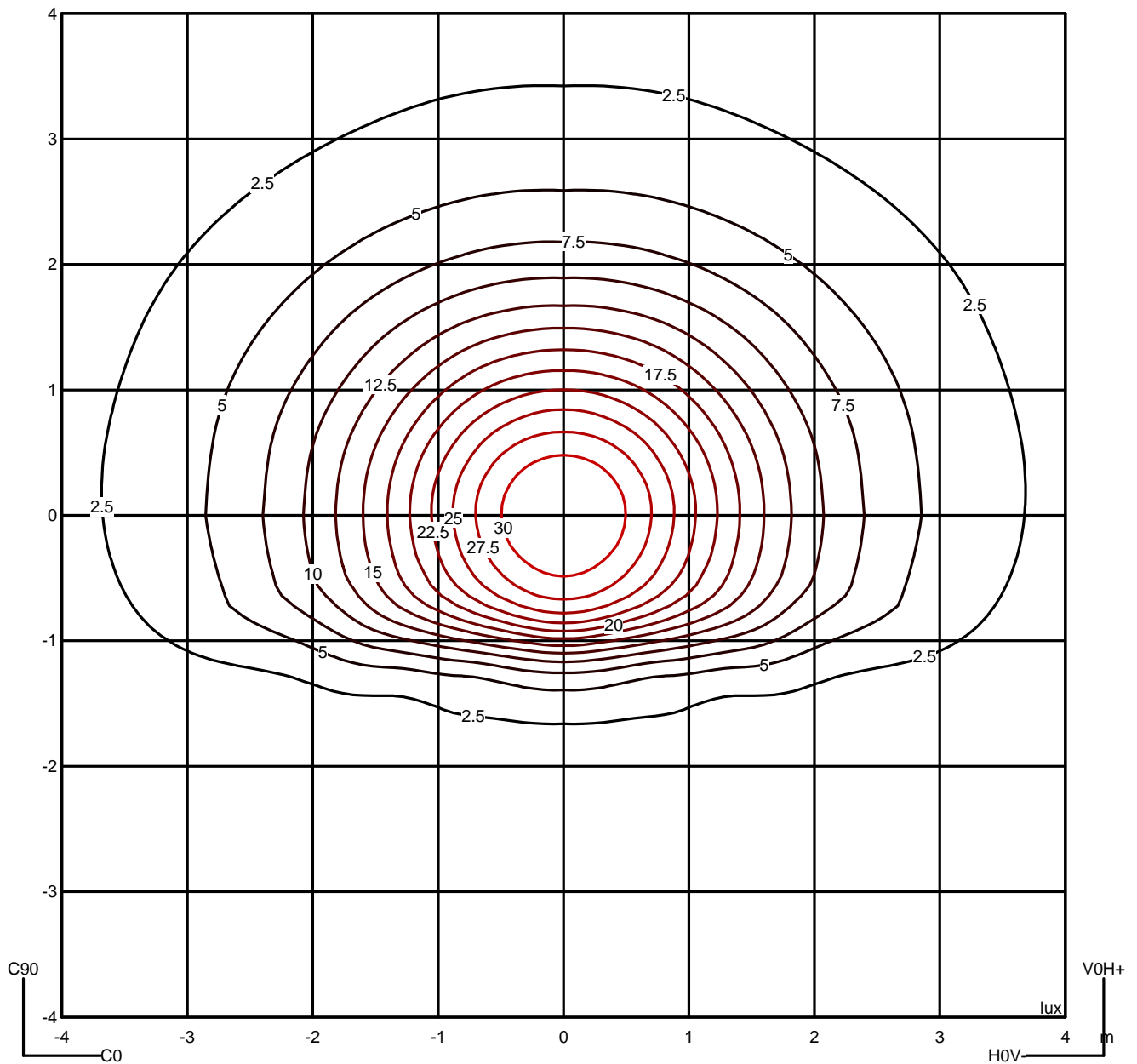
Measur.

Code CL116A17F024G
 Name Aplique DUNA led 30W

Luminaire Flux	2338.84 lm	Luminaire Power	32.24 W	Efficacy	72.54 lm/W	Efficiency	100.00%
Lamps Flux	2338.84 lm	Maximum value	865.17 cd	Position	C=270.00 G=170.00	CG	Sym. on planes 270-90

Isolux (Floor)

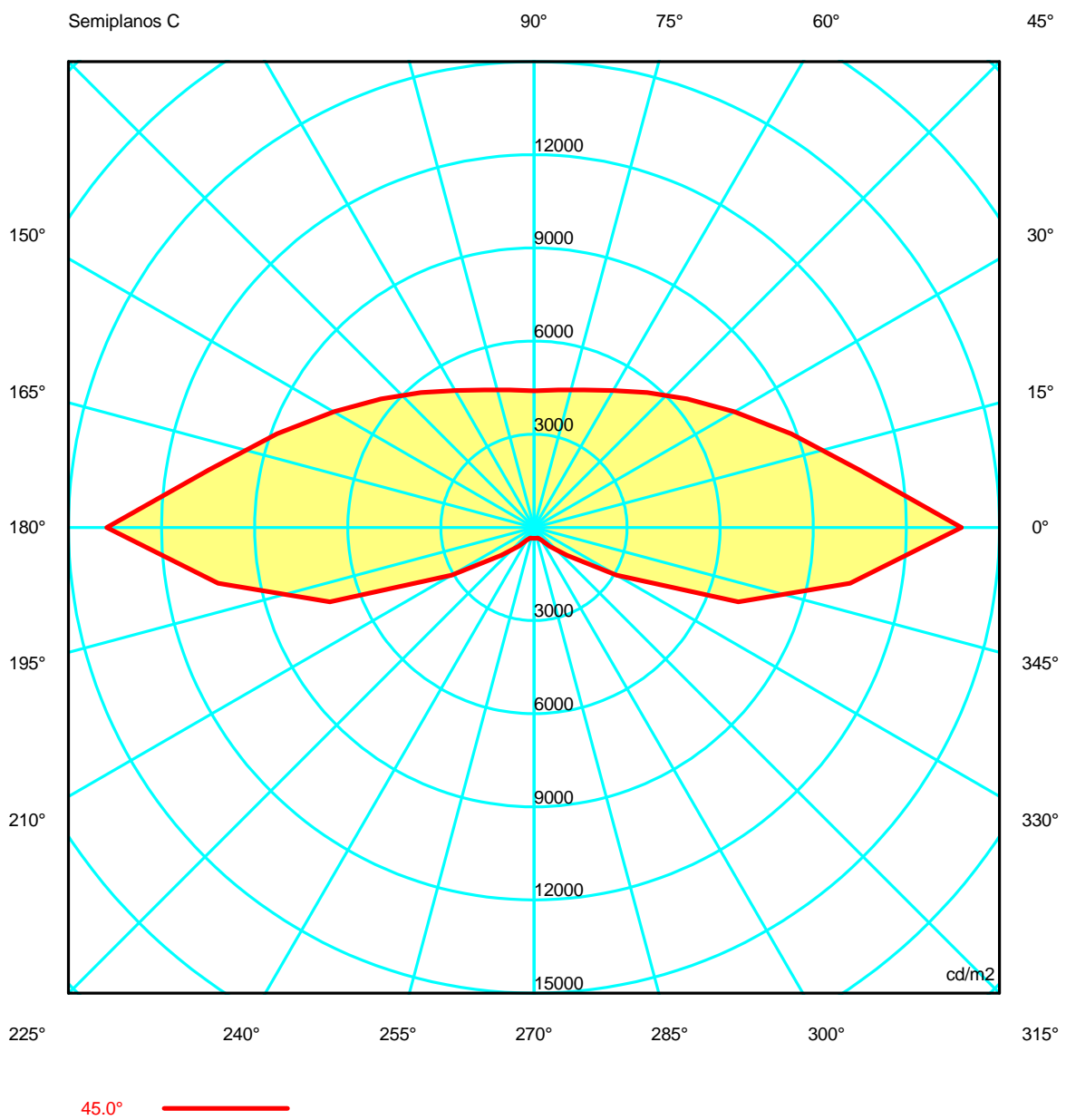
Luminaire position X=0.00m Y=0.00m Z=2.50m



Luminaire
 Code 05-5964-14-M1
 Name Aplique DUNA led 30W
Measurem.
 Code CL116A17F024G
 Name Aplique DUNA led 30W

Luminaire Flux	2338.84 lm	Luminaire Power	32.24 W	Efficacy	72.54 lm/W	Efficiency	100.00%
Lamps Flux	2338.84 lm	Maximum value	865.17 cd	Position	C=270.00 G=170.00	CG	Sym. on planes 270-90

Luminance



Luminaire

Code 05-5964-14-M1
Name Aplique DUNA led 30W

Measurerm.

Code CL116A17F024G
Name Aplique DUNA led 30W

Luminaire Flux	2338.84 lm	Luminaire Power	32.24 W	Efficacy	72.54 lm/W	Efficiency	100.00%
Lamps Flux	2338.84 lm	Maximum value	865.17 cd	Position	C=270.00 G=170.00	CG	Sym. on planes 270-90

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	20980.25	20980.25	20980.25	20980.25	20980.25	20980.25	20980.25	20980.25	20980.25	20980.25	20980.25	20980.25	20980.25
G 5.0	20431.26	19805.10	19245.91	18761.53	18356.30	18033.54	17795.17	17642.01	17574.65	17593.02	17574.65	17642.01	17795.17
G 10.0	19788.65	18641.49	17665.96	16853.37	16195.95	15685.93	15314.68	15074.92	14966.98	14989.56	14966.98	15074.92	15314.68
G 15.0	19082.24	17499.94	16202.32	15149.51	14321.55	13684.01	13212.58	12899.31	12753.11	12769.98	12753.11	12899.31	13212.58
G 20.0	18332.21	16372.33	14821.60	13605.66	12690.56	11989.92	11471.09	11148.75	11006.51	11025.87	11006.51	11148.75	11471.09
G 25.0	17537.28	15244.60	13520.15	12212.73	11225.14	10481.35	9934.40	9564.43	9377.31	9363.42	9377.31	9564.43	9934.40
G 30.0	16688.39	14118.71	12275.88	10905.81	9875.11	9119.72	8574.48	8184.36	7979.99	7960.24	7979.99	8184.36	8574.48
G 35.0	15776.32	12981.50	11076.54	9670.05	8639.98	7881.39	7307.30	6866.69	6603.25	6517.83	6603.25	6866.69	7307.30
G 40.0	14802.51	11815.36	9924.58	8516.76	7510.82	6723.15	6098.09	5680.87	5458.09	5391.19	5458.09	5680.87	6098.09
G 45.0	13769.48	10648.50	8818.16	7448.64	6446.71	5674.64	5090.06	4714.50	4500.68	4404.50	4500.68	4714.50	5090.06
G 50.0	12685.70	9534.09	7754.18	6482.07	5495.42	4770.03	4276.21	3962.64	3799.89	3757.19	3799.89	3962.64	4276.21
G 55.0	11594.31	8516.48	6739.51	5605.68	4723.18	4054.70	3617.62	3401.10	3293.84	3241.79	3293.84	3401.10	3617.62
G 60.0	10561.02	7461.04	5809.20	4811.25	4060.04	3507.49	3157.53	2980.20	2903.03	2890.04	2903.03	2980.20	3157.53
G 65.0	9613.87	6546.02	4976.41	4096.74	3489.96	3074.38	2795.08	2659.00	2589.66	2556.99	2589.66	2659.00	2795.08
G 70.0	8505.77	5628.17	4269.77	3458.32	2952.54	2653.41	2491.65	2346.14	2272.57	2296.22	2272.57	2346.14	2491.65
G 75.0	6767.70	4728.78	3600.92	2997.04	2507.68	2252.95	2218.19	2263.07	2330.51	2423.63	2330.51	2263.07	2218.19
G 80.0	4011.88	3355.02	3122.34	2904.56	2533.91	2317.55	2199.00	2380.17	2305.39	1872.63	2305.39	2380.17	2199.00
G 85.0	1578.10	2482.70	3110.29	3289.24	3259.35	3216.83	3059.56	2592.94	2023.91	1482.72	2023.91	2592.94	3059.56
G 90.0	3184.89	3503.93	4015.27	4119.03	4206.34	4296.80	4348.84	4182.69	3164.77	1334.67	3164.77	4182.69	4348.84

Luminaire

Code 05-5964-14-M1
Name Aplique DUNA led 30W

Measurerm.

Code CL116A17F024G
Name Aplique DUNA led 30W

Luminaire Flux	2338.84 lm	Luminaire Power	32.24 W	Efficacy	72.54 lm/W	Efficiency	100.00%
Lamps Flux	2338.84 lm	Maximum value	865.17 cd	Position	C=270.00 G=170.00	CG Sym. on planes	270-90

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	20980.25	20980.25	20980.25	20980.25	20980.25	20980.25	20980.25	20980.25	20980.25	20980.25	20980.25	20980.25	20980.25
G 5.0	18033.54	18356.30	18761.53	19245.91	19805.10	20431.26	19810.09	19255.44	18774.86	18372.26	18050.68	17812.14	17657.97
G 10.0	15685.93	16195.95	16853.37	17665.96	18641.49	19788.65	18623.05	17635.14	16814.03	16147.55	15632.34	15265.64	15041.95
G 15.0	13684.01	14321.55	15149.51	16202.32	17499.94	19082.24	17437.41	16113.30	15062.73	14244.95	13634.47	13201.38	12917.96
G 20.0	11989.92	12690.56	13605.66	14821.60	16372.33	18332.21	16277.23	14715.00	13504.41	12477.32	11482.07	10559.16	9886.50
G 25.0	10481.35	11225.14	12212.73	13520.15	15244.60	17537.28	15144.17	13357.95	11974.32	10261.07	8337.94	6561.38	5372.69
G 30.0	9119.72	9875.11	10905.81	12275.88	14118.71	16688.39	14038.94	12158.71	10185.18	7413.56	4741.72	2972.91	2367.03
G 35.0	7881.39	8639.98	9670.05	11076.54	12981.50	15776.32	12878.89	10686.05	7928.13	4443.87	2270.74	1649.31	1345.58
G 40.0	6723.15	7510.82	8516.76	9924.58	11815.36	14802.51	11654.33	8855.65	5327.42	2545.14	1225.22	938.78	701.18
G 45.0	5674.64	6446.71	7448.64	8818.16	10648.50	13769.48	10335.48	7003.44	3069.67	1395.56	789.63	461.49	364.54
G 50.0	4770.03	5495.42	6482.07	7754.18	9534.09	12685.70	8841.72	5400.66	1753.03	668.69	500.19	349.87	325.29
G 55.0	4054.70	4723.18	5605.68	6739.51	8516.48	11594.31	7592.90	3877.52	1075.38	597.85	375.51	331.73	299.17
G 60.0	3507.49	4060.04	4811.25	5809.20	7461.04	10561.02	5735.24	2456.26	657.23	464.33	363.23	324.41	293.25
G 65.0	3074.38	3489.96	4096.74	4976.41	6546.02	9613.87	4207.78	1450.98	484.24	408.79	360.07	328.63	300.65
G 70.0	2653.41	2952.54	3458.32	4269.77	5628.17	8505.77	3107.42	924.18	467.69	396.45	367.38	340.12	316.14
G 75.0	2252.95	2507.68	2997.04	3600.92	4728.78	6767.70	2189.50	874.69	500.93	425.63	377.28	354.71	340.68
G 80.0	2317.55	2533.91	2904.56	3122.34	3355.02	4011.88	1152.90	659.50	592.60	458.81	379.91	369.36	361.81
G 85.0	3216.83	3259.35	3289.24	3110.29	2482.70	1578.10	506.14	619.37	627.09	477.58	392.02	381.47	369.21
G 90.0	4296.80	4206.34	4119.03	4015.27	3503.93	3184.89	1492.02	1046.45	662.54	483.10	414.52	394.16	399.16

Luminaire

Code 05-5964-14-M1
Name Aplique DUNA led 30W

Measur.

Code CL116A17F024G
Name Aplique DUNA led 30W

Luminaire Flux	2338.84 lm	Luminaire Power	32.24 W	Efficacy	72.54 lm/W	Efficiency	100.00%
Lamps Flux	2338.84 lm	Maximum value	865.17 cd	Position	C=270.00 G=170.00	CG	Sym. on planes 270-90

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	20980.25	20980.25	20980.25	20980.25	20980.25	20980.25	20980.25	20980.25	20980.25	20980.25
G 5.0	17590.13	17608.08	17590.13	17657.97	17812.14	18050.68	18372.26	18774.86	19255.44	19810.09
G 10.0	14949.04	14980.74	14949.04	15041.95	15265.64	15632.34	16147.55	16814.03	17635.14	18623.05
G 15.0	12794.30	12821.81	12794.30	12917.96	13201.38	13634.47	14244.95	15062.73	16113.30	17437.41
G 20.0	9542.51	9477.70	9542.51	9886.50	10559.16	11482.07	12477.32	13504.41	14715.00	16277.23
G 25.0	4822.28	4709.89	4822.28	5372.69	6561.38	8337.94	10261.07	11974.32	13357.95	15144.17
G 30.0	2248.82	2185.77	2248.82	2367.03	2972.91	4741.72	7413.56	10185.18	12158.71	14038.94
G 35.0	1185.01	1151.18	1185.01	1345.58	1649.31	2270.74	4443.87	7928.13	10686.05	12878.89
G 40.0	573.25	618.21	573.25	701.18	938.78	1225.22	2545.14	5327.42	8855.65	11654.33
G 45.0	352.32	343.65	352.32	364.54	461.49	789.63	1395.56	3069.67	7003.44	10335.48
G 50.0	312.19	309.30	312.19	325.29	349.87	500.19	668.69	1753.03	5400.66	8841.72
G 55.0	288.20	282.26	288.20	299.17	331.73	375.51	597.85	1075.38	3877.52	7592.90
G 60.0	283.31	274.21	283.31	293.25	324.41	363.23	464.33	657.23	2456.26	5735.24
G 65.0	286.12	273.61	286.12	300.65	328.63	360.07	408.79	484.24	1450.98	4207.78
G 70.0	296.85	279.94	296.85	316.14	340.12	367.38	396.45	467.69	924.18	3107.42
G 75.0	320.37	295.48	320.37	340.68	354.71	377.28	425.63	500.93	874.69	2189.50
G 80.0	335.89	297.07	335.89	361.81	369.36	379.91	458.81	592.60	659.50	1152.90
G 85.0	340.21	261.21	340.21	369.21	381.47	392.02	477.58	627.09	619.37	506.14
G 90.0	353.13	246.43	353.13	399.16	394.16	414.52	483.10	662.54	1046.45	1492.02