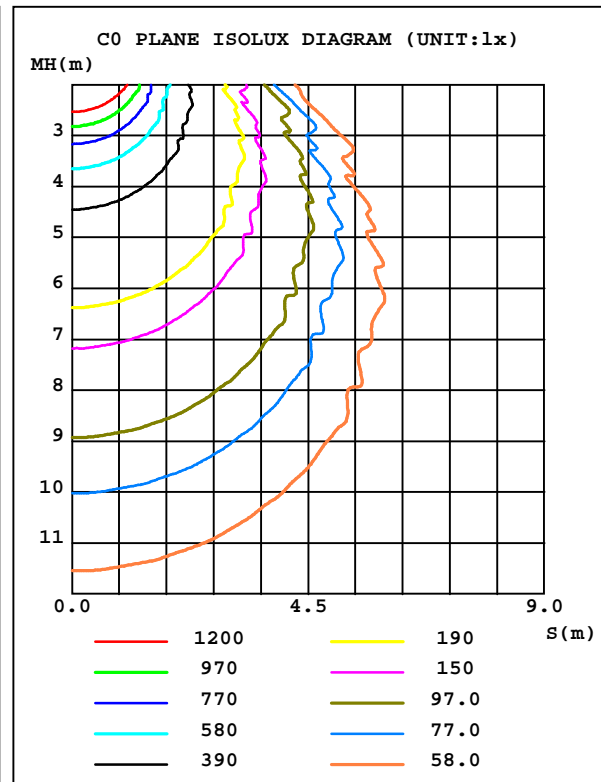
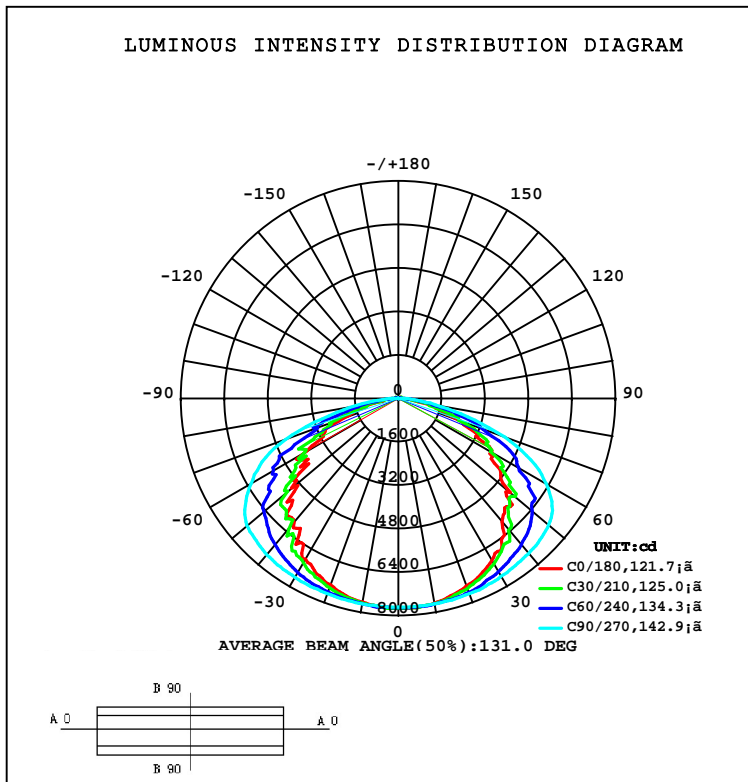


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:127.0V I:1.973A P:247.4W PF:0.9868 Lamp Flux:27299x1 lm		
NAME: BS2000	TYPE:HORTICULTURA	SERIAL No.:NI
DIM.: NA	SPEC.:GABINETE	PROTECTION ANGLE:NA
MFR.: BEGHELLI	SUR.:NA	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 110.36 lm/W
MODEL		I _{max} (cd)	7738	S/MH(C0/180)		1.28
NOMINAL POWER(W)	252	LOR(%)	100.0	S/MH(C90/270)		1.51
RATED VOLTAGE(V)	126	TOTAL FLUX(lm)	27299	η UP,DN(C0-180)		0.3,49.6
NOMINAL FLUX(lm)	27299	CIE CLASS	DIRECT	η UP,DN(C180-360)		0.3,49.7
LAMPS INSIDE	1	η up(%)	0.7	CIBSE SHR NOM		1.50
TEST VOLTAGE(V)	126.7	η down(%)	99.3	CIBSE SHR MAX		1.55



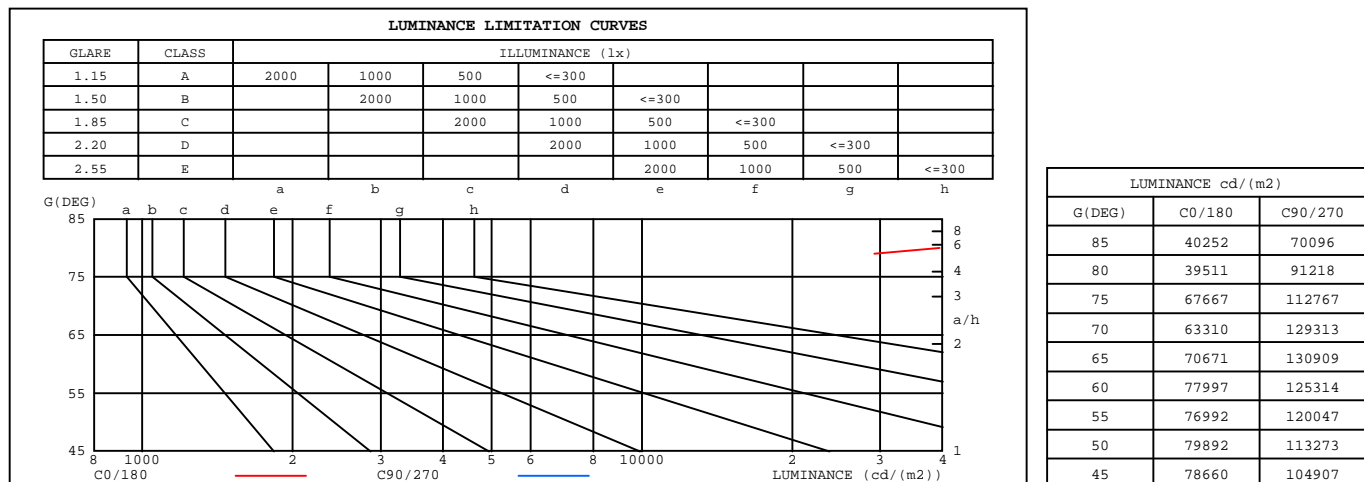
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:JALS
 Test Date:2023-10-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.266
 Humidity:48.6%
 Test Distance:2.493m [K=1.0000]
 Remarks: VALIDACION TECNOLOGICA
 ENSAYO LABORATORIO

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	7614	7664	7676	7646	7651	7672	7685	7637	0- 10	733.3	733.3	2.69,2.69
20	7311	7505	7648	7458	7359	7488	7651	7513	10- 20	2149	2882	10.6,10.6
30	6845	7194	7612	7197	6892	7207	7574	7186	20- 30	3405	6287	23,23
40	5967	6676	7528	6656	5956	6647	7467	6672	30- 40	4379	10667	39.1,39.1
50	5135	5799	7281	5604	5384	5599	7229	5779	40- 50	4936	15603	57.2,57.2
60	3900	4442	6266	4520	3975	4452	6280	4331	50- 60	4876	20478	75,75
70	2165	2977	4423	2886	2432	2980	4158	2960	60- 70	3974	24453	89.6,89.6
80	686.1	1216	1584	1089	733.2	1106	1401	1249	70- 80	2131	26583	97.4,97.4
90	82.25	85.02	217.1	103.4	104.0	106.0	164.9	100.5	80- 90	534.7	27118	99.3,99.3
100	32.19	63.40	92.40	29.34	16.31	31.23	73.98	30.13	90-100	77.04	27195	99.6,99.6
110	45.45	131.3	0.4436	119.2	67.67	144.2	0.3978	125.6	100-110	49.59	27245	99.8,99.8
120	56.20	17.51	0.4304	15.07	79.46	17.63	0.3866	17.03	110-120	40.76	27286	100,100
130	12.41	3.098	0.4318	2.957	14.38	4.176	0.3875	3.009	120-130	9.846	27295	100,100
140	2.882	0.6602	0.5014	0.6706	4.899	0.8101	0.4640	0.6622	130-140	2.445	27298	100,100
150	0.5652	0.6995	0.5789	0.6079	0.9118	0.9168	0.5382	0.7005	140-150	0.5469	27298	100,100
160	0.5913	0.6713	0.6420	0.5644	0.9540	0.9598	0.6093	0.6840	150-160	0.3181	27299	100,100
170	0.4223	0.5920	0.6501	0.4259	0.8945	0.9183	0.6822	0.6877	160-170	0.1917	27299	100,100
180	0.8986	0.8658	0.4016	0.6171	0.8549	0.8578	0.5447	0.5453	170-180	0.0602	27299	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



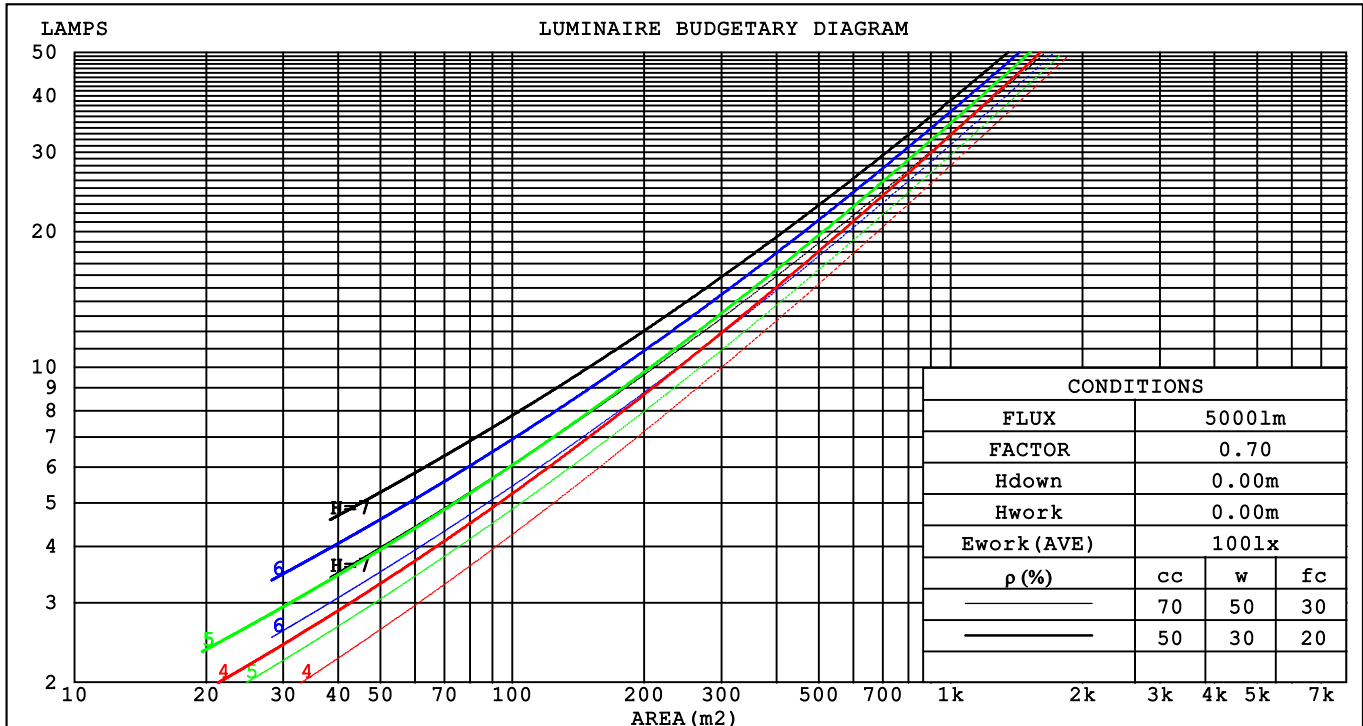
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:JALS
 Test Date:2023-10-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.266
 Humidity:48.6%
 Test Distance:2.493m [K=1.0000]
 Remarks:VALIDACION TECNOLOGICA
 ENSAYO LABORATORIO

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:127.0V I:1.973A P:247.4W PF:0.9868 Lamp Flux:27299x1 lm		
NAME: BS2000	TYPE:HORTICULTURA	SERIAL No.:NI
DIM.: NA	SPEC.:GABINETE	PROTECTION ANGLE:NA
MFR.: BEGHELLI	SUR.:NA	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:JALS
 Test Date:2023-10-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.266
 Humidity:48.6%
 Test Distance:2.493m [K=1.0000]
 Remarks:VALIDACION TECNOLOGICA
 ENSAYO LABORATORIO

WEC AND CCEC

Test:U:127.0V I:1.973A P:247.4W PF:0.9868 Lamp Flux:27299x1 lm																	
NAME: BS2000									TYPE:HORTICULTURA						SERIAL No.:NI		
DIM.: NA									SPEC.:GABINETE						PROTECTION ANGLE:NA		
MFR.: BEGHELLI									SUR.:NA								

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.325	.185	.058	.317	.181	.057	.304	.174	.056	.291	.168	.054	.279	.162	.052	
2.0	.306	.168	.051	.299	.165	.051	.287	.160	.050	.276	.155	.048	.265	.150	.047	
3.0	.282	.150	.045	.277	.148	.045	.266	.144	.044	.256	.140	.043	.246	.136	.042	
4.0	.260	.135	.040	.255	.133	.039	.245	.130	.039	.236	.127	.038	.228	.124	.038	
5.0	.239	.122	.035	.235	.121	.035	.226	.118	.035	.218	.115	.034	.211	.113	.034	
6.0	.221	.111	.032	.217	.110	.032	.210	.107	.031	.203	.105	.031	.196	.103	.031	
7.0	.206	.102	.029	.202	.101	.029	.195	.099	.028	.189	.097	.028	.183	.095	.028	
8.0	.191	.094	.026	.188	.093	.026	.182	.091	.026	.176	.089	.026	.171	.088	.026	
9.0	.179	.087	.024	.176	.086	.024	.171	.084	.024	.165	.083	.024	.161	.082	.024	
10.0	.168	.081	.022	.165	.080	.022	.160	.079	.022	.156	.077	.022	.151	.076	.022	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.196	.196	.196	.167	.167	.167	.114	.114	.114	.066	.066	.066	.021	.021	.021	
1.0	.186	.161	.138	.159	.138	.119	.109	.095	.082	.063	.055	.048	.020	.018	.015	
2.0	.179	.137	.101	.153	.118	.088	.105	.082	.061	.061	.047	.036	.019	.015	.012	
3.0	.172	.120	.078	.147	.103	.067	.101	.072	.047	.058	.042	.028	.019	.014	.009	
4.0	.165	.106	.062	.141	.092	.054	.097	.064	.038	.056	.038	.022	.018	.012	.007	
5.0	.157	.096	.051	.135	.083	.044	.093	.058	.031	.054	.034	.019	.017	.011	.006	
6.0	.150	.088	.043	.129	.076	.038	.089	.053	.027	.052	.031	.016	.017	.010	.005	
7.0	.143	.081	.038	.123	.070	.033	.085	.049	.023	.049	.029	.014	.016	.010	.005	
8.0	.137	.075	.033	.118	.065	.029	.081	.046	.021	.047	.027	.012	.015	.009	.004	
9.0	.130	.070	.030	.112	.061	.026	.078	.043	.018	.045	.025	.011	.015	.008	.004	
10.0	.124	.066	.027	.107	.057	.024	.074	.040	.017	.043	.024	.010	.014	.008	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:JALS
 Test Date:2023-10-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.266
 Humidity:48.6%
 Test Distance:2.493m [K=1.0000]
 Remarks:VALIDACION TECNOLOGICA
 ENSAYO LABORATORIO

Uncorrected UGR Table

Test:U:127.0V I:1.973A P:247.4W PF:0.9868 Lamp Flux:27299x1 lm											
NAME: BS2000					TYPE:HORTICULTURA			SERIAL No.:NI			
DIM.: NA					SPEC.:GABINETE			PROTECTION ANGLE:NA			
MFR.: BEGHELLI					SUR.:NA						
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		Viewed crosswise					Viewed endwise				
x = 2H y = 2H	2H	27.9	29.4	28.1	29.7	29.9	30.2	31.8	30.5	32.0	32.2
	3H	29.3	30.7	29.6	31.0	31.2	32.2	33.7	32.6	34.0	34.2
	4H	29.8	31.2	30.1	31.5	31.7	33.0	34.3	33.3	34.6	34.9
	6H	30.0	31.3	30.3	31.6	31.9	33.4	34.7	33.7	35.0	35.3
	8H	30.1	31.3	30.4	31.6	32.0	33.5	34.7	33.8	35.0	35.4
	12H	30.2	31.4	30.5	31.7	32.0	33.5	34.7	33.9	35.1	35.4
4H	2H	28.8	30.2	29.1	30.4	30.7	30.5	31.9	30.9	32.2	32.5
	3H	30.3	31.5	30.7	31.8	32.1	32.7	34.0	33.1	34.3	34.6
	4H	30.9	32.0	31.3	32.4	32.7	33.6	34.7	34.0	35.0	35.4
	6H	31.2	32.2	31.6	32.5	32.9	34.1	35.1	34.5	35.5	35.8
	8H	31.3	32.2	31.7	32.6	33.0	34.3	35.2	34.7	35.6	36.0
	12H	31.4	32.3	31.9	32.7	33.1	34.3	35.2	34.8	35.6	36.0
8H	4H	31.3	32.2	31.7	32.6	33.0	33.7	34.6	34.1	35.0	35.4
	6H	31.7	32.4	32.1	32.9	33.3	34.3	35.1	34.8	35.5	35.9
	8H	31.9	32.5	32.3	33.0	33.4	34.5	35.2	35.0	35.7	36.1
	12H	32.0	32.6	32.5	33.1	33.6	34.7	35.3	35.2	35.7	36.2
12H	4H	31.3	32.2	31.8	32.6	33.0	33.6	34.5	34.1	34.9	35.3
	6H	31.8	32.4	32.2	32.9	33.3	34.3	35.0	34.8	35.4	35.9
	8H	32.0	32.5	32.5	33.0	33.5	34.6	35.1	35.0	35.6	36.1
Variations with the observer position at spacings:											
S = 1.0H		+ 0.4 / - 0.4					+ 0.1 / - 0.1				
1.5H		+ 0.4 / - 0.4					+ 0.2 / - 0.3				
2.0H		+ 1.1 / - 0.7					+ 0.3 / - 0.5				

CIE Pub.117 Corrected 27299 lm Total Lamp Luminous Flux. (8log(F/F0) = 11.5)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:JALS
 Test Date:2023-10-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.266
 Humidity:48.6%
 Test Distance:2.493m [K=1.0000]
 Remarks:VALIDACION TECNOLOGICA
 ENSAYO LABORATORIO

UTILIZATION FACTORS TABLE

Test:U:127.0V I:1.973A P:247.4W PF:0.9868 Lamp Flux:27299x1 lm		
NAME: BS2000	TYPE:HORTICULTURA	SERIAL No.:NI
DIM.: NA	SPEC.:GABINETE	PROTECTION ANGLE:NA
MFR.: BEGHELLI	SUR.:NA	

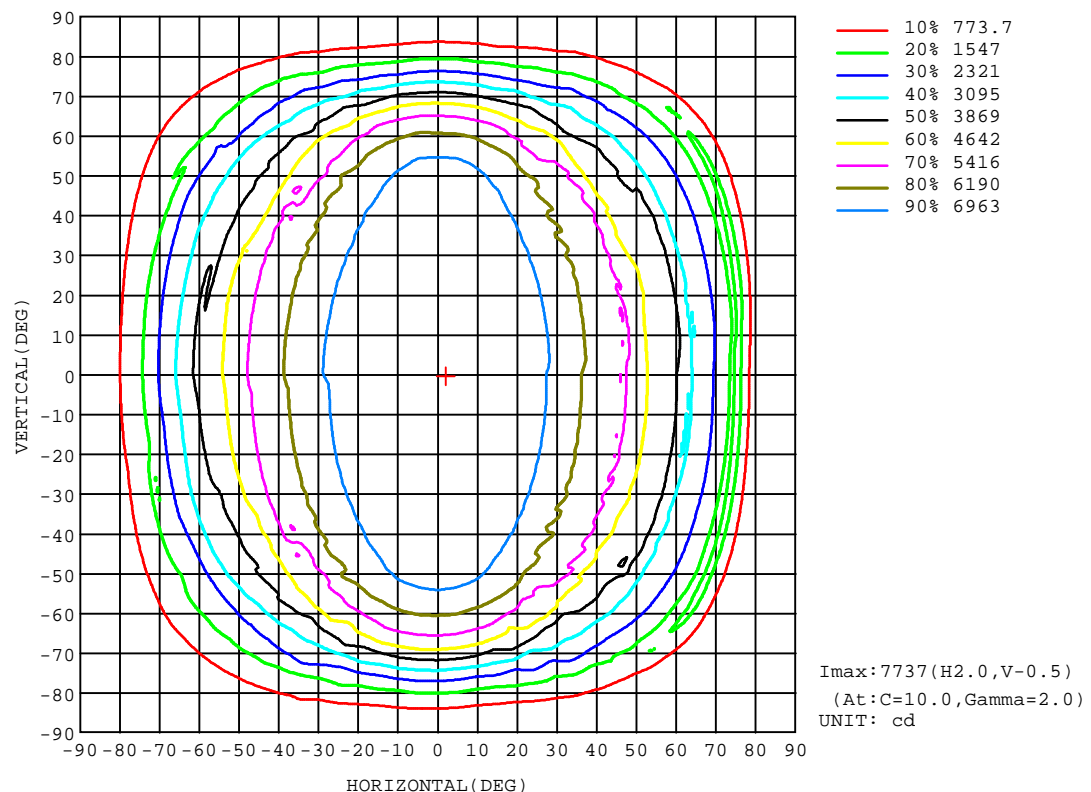
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	54	42	35	53	42	35	52	41	34	28
0.80	64	52	44	63	52	44	61	51	44	36
1.00	73	61	53	72	61	53	69	62	53	45
1.25	80	69	62	79	69	61	76	67	60	53
1.50	86	75	68	84	74	67	81	72	66	58
2.00	93	84	77	91	83	76	87	80	75	66
2.50	97	89	83	95	88	82	91	85	80	71
3.00	101	94	88	99	92	87	94	89	84	75
4.00	105	99	94	103	97	93	98	94	90	81
5.00	108	103	98	105	101	97	101	97	94	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:JALS
 Test Date:2023-10-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.266
 Humidity:48.6%
 Test Distance:2.493m [K=1.0000]
 Remarks:VALIDACION TECNOLOGICA
 ENSAYO LABORATORIO

ISOCANDELA DIAGRAM

Test:U:127.0V I:1.973A P:247.4W PF:0.9868 Lamp Flux:27299x1 lm		
NAME: BS2000	TYPE:HORTICULTURA	SERIAL No.:NI
DIM.: NA	SPEC.:GABINETE	PROTECTION ANGLE:NA
MFR.: BEGHELLI	SUR.:NA	

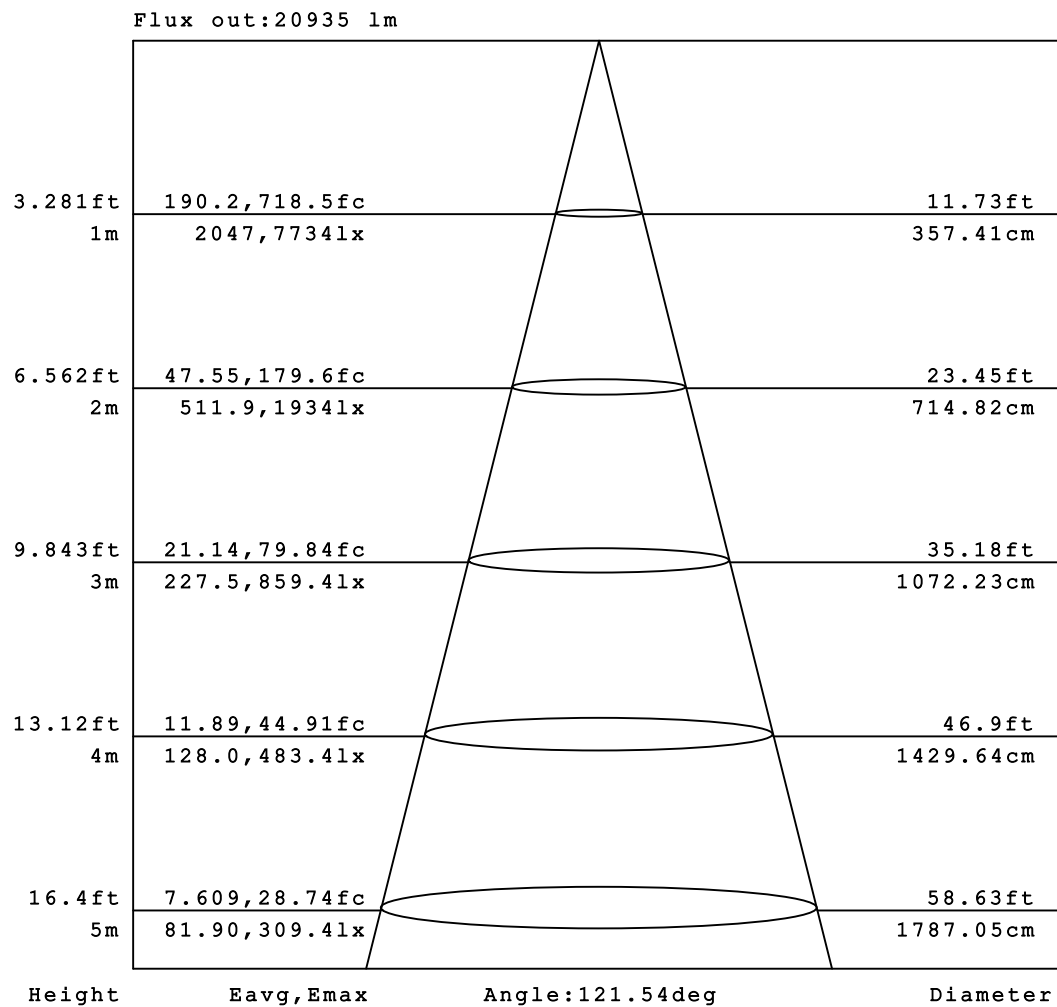


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.4DEG
 Operators: JALS
 Test Date: 2023-10-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.266
 Humidity: 48.6%
 Test Distance: 2.493m [K=1.0000]
 Remarks: VALIDACION TECNOLÓGICA
 ENSAYO LABORATORIO

AAI Figure

Test:U:127.0V I:1.973A P:247.4W PF:0.9868 Lamp Flux:27299x1 lm		
NAME: BS2000	TYPE:HORTICULTURA	SERIAL No.:NI
DIM.: NA	SPEC.:GABINETE	PROTECTION ANGLE:NA
MFR.: BEGHELLI	SUR.:NA	



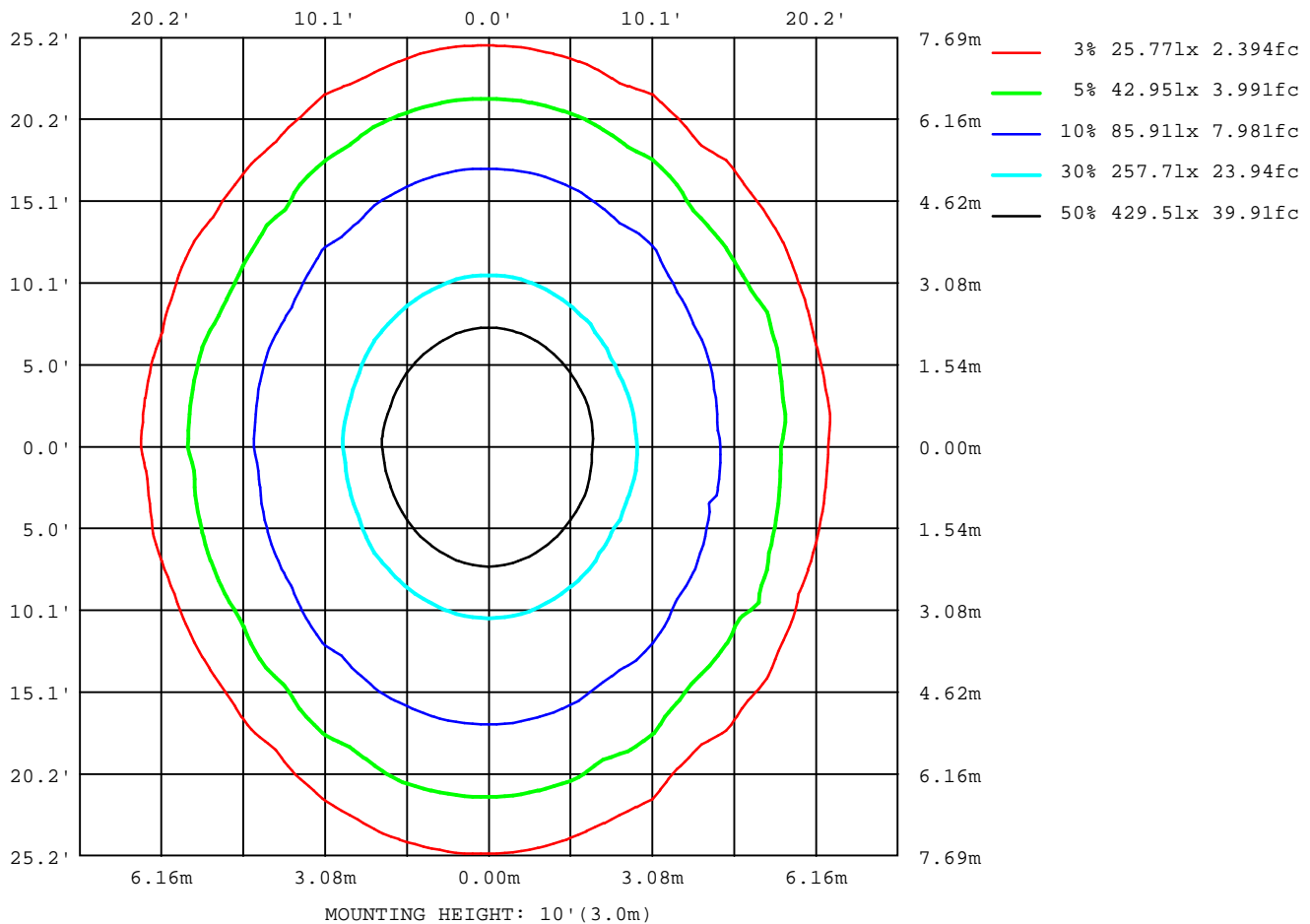
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.4DEG
 Operators: JALS
 Test Date: 2023-10-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.266
 Humidity: 48.6%
 Test Distance: 2.493m [K=1.0000]
 Remarks: VALIDACION TECNOLOGICA
 ENSAYO LABORATORIO

ISOLUX DIAGRAM

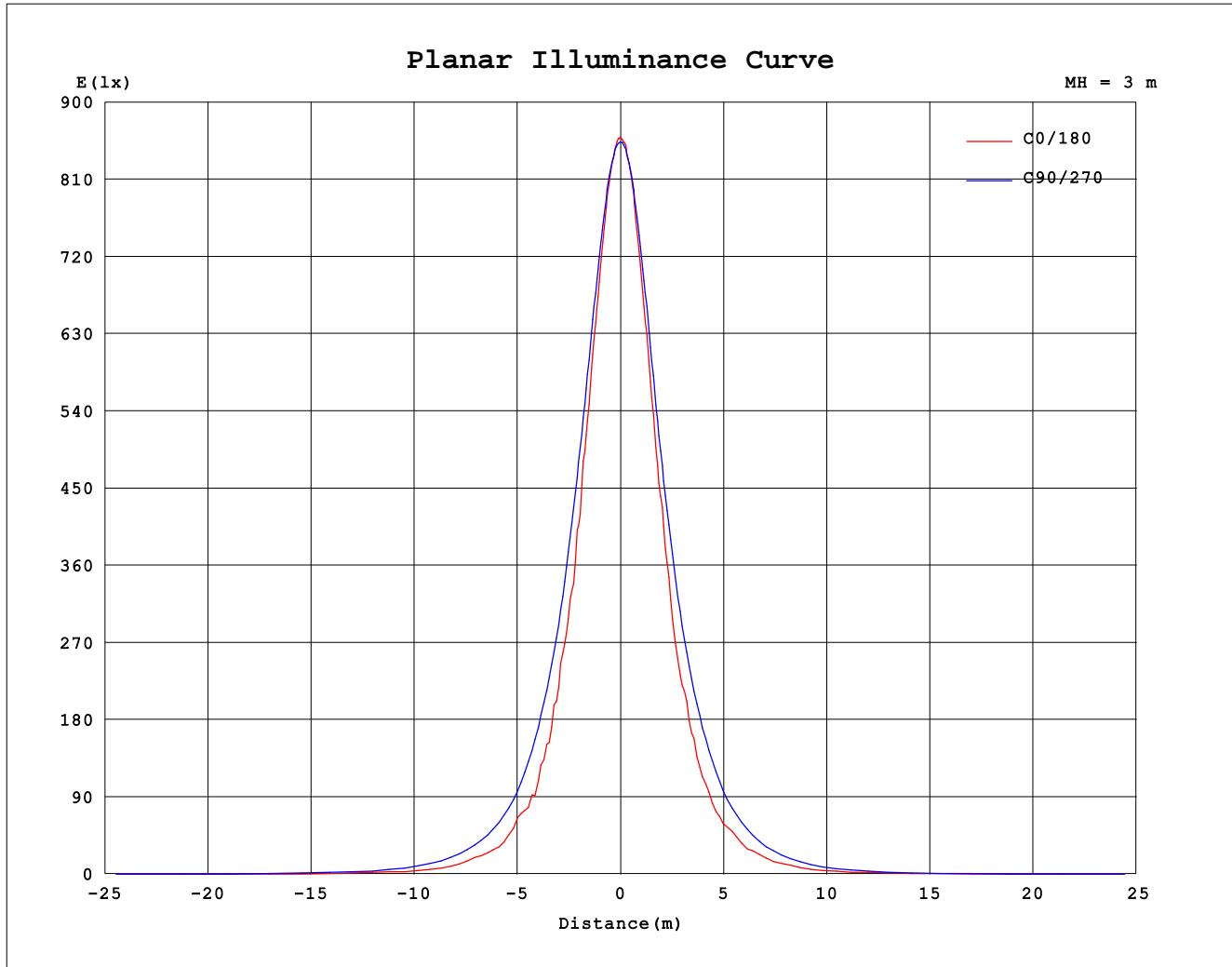
Test:U:127.0V I:1.973A P:247.4W PF:0.9868 Lamp Flux:27299x1 lm		
NAME: BS2000	TYPE:HORTICULTURA	SERIAL No.:NI
DIM.: NA	SPEC.:GABINETE	PROTECTION ANGLE:NA
MFR.: BEGHELLI	SUR.:NA	



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:JALS
 Test Date:2023-10-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.266
 Humidity:48.6%
 Test Distance:2.493m [K=1.0000]
 Remarks:VALIDACION TECNOLOGICA
 ENSAYO LABORATORIO

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.4DEG
 Operators: JALS
 Test Date: 2023-10-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.266
 Humidity: 48.6%
 Test Distance: 2.493m [K=1.0000]
 Remarks: VALIDACION TECNOLÓGICA
 ENSAYO LABORATORIO

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:127.0V I:1.973A P:247.4W PF:0.9868 Lamp Flux:27299x1 lm																		
NAME: BS2000									TYPE:HORTICULTURA					SERIAL No.:NI				
DIM.: NA									SPEC.:GABINETE					PROTECTION ANGLE:NA				
MFR.: BEGHELLI									SUR.:NA									

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	7732	7733	7734	7734	7733	7731	7729	7725	7722	7719	7714	7710	7707	7702	7698	7694	7690	7687	7684
5	7689	7690	7693	7700	7706	7701	7701	7708	7712	7713	7715	7720	7716	7699	7694	7693	7696	7692	7683
10	7614	7620	7629	7634	7645	7645	7649	7662	7659	7664	7662	7666	7679	7687	7702	7703	7685	7686	7676
15	7509	7515	7521	7537	7549	7553	7568	7580	7597	7598	7611	7627	7639	7644	7654	7671	7687	7670	7669
20	7311	7320	7333	7350	7361	7396	7419	7448	7470	7505	7543	7569	7580	7612	7620	7632	7657	7650	7648
25	7127	7131	7137	7154	7178	7195	7249	7288	7319	7368	7414	7463	7516	7546	7579	7597	7618	7637	7635
30	6845	6859	6907	6906	6896	6935	7000	7090	7134	7194	7250	7318	7397	7466	7515	7569	7578	7620	7612
35	6573	6590	6577	6399	6352	6650	6848	6846	6853	6967	7067	7163	7247	7354	7443	7486	7528	7589	7577
40	5967	5994	6051	6128	6090	5961	6268	6391	6504	6676	6767	6943	7056	7171	7293	7393	7460	7517	7528
45	5562	5631	5780	5951	5909	5889	5845	6015	5844	6377	6446	6670	6786	6958	7104	7244	7329	7393	7418
50	5135	5136	5037	4871	5067	5512	5323	5822	5779	5799	5705	5986	6453	6637	6854	7017	7177	7237	7281
55	4416	4416	4334	4031	4375	4691	4671	4713	5281	5597	5603	5675	5854	6194	6417	6564	6759	6849	6886
60	3900	3972	4179	4385	4192	4004	3988	4045	4347	4442	4992	5359	5316	5324	5763	5966	6111	6248	6266
65	2987	2974	2991	3040	3089	3061	3379	3627	3703	3849	3960	3870	4353	4815	4626	5177	5340	5472	5532
70	2165	2202	2238	2244	2375	2556	2715	2583	2742	2977	3068	3281	3173	3507	3967	3831	4156	4340	4423
75	1751	1676	1531	1382	1245	1307	1561	1733	1589	1916	2072	2342	2156	2490	2338	2698	2677	2807	2919
80	686	669	610	568	571	639	720	835	915	1216	1119	1121	1275	1182	1334	1263	1409	1530	1584
85	351	357	360	376	432	478	500	486	487	474	493	462	470	534	455	493	522	582	611
90	82.3	81.4	78.7	77.1	78.2	80.1	79.6	78.3	81.2	85.0	86.8	83.9	80.7	82.7	103	122	140	151	217
95	55.4	50.7	51.4	52.0	52.0	46.8	42.8	32.0	22.9	20.3	16.7	6.09	23.8	61.8	99.9	111	156	201	228
100	32.2	0.35	2.12	2.46	4.90	8.37	15.5	32.5	44.6	63.4	80.8	101	69.1	87.0	44.1	43.6	56.8	75.2	92.4
105	33.1	34.8	38.0	48.8	52.7	71.9	88.8	95.0	86.5	75.1	92.3	134	88.3	26.0	10.8	1.95	3.81	10.8	20.3
110	45.5	46.4	44.9	43.0	44.6	47.4	59.4	86.6	119	131	81.0	37.0	22.7	11.5	3.12	0.69	0.63	0.56	0.44
115	81.3	81.8	85.3	93.3	103	112	108	79.3	52.4	31.6	23.9	17.6	9.97	3.22	0.69	0.63	0.58	0.56	0.45
120	56.2	56.5	53.9	49.8	42.0	33.4	26.5	23.8	20.8	17.5	12.2	7.21	3.19	0.79	0.67	0.60	0.59	0.56	0.43
125	19.5	19.5	19.1	17.6	17.4	17.4	16.3	13.8	10.7	8.01	4.82	2.29	0.80	0.64	0.63	0.61	0.59	0.52	0.41
130	12.4	12.5	12.1	11.4	10.3	9.40	8.46	6.91	4.74	3.10	1.51	0.70	0.62	0.67	0.65	0.61	0.59	0.52	0.43
135	6.61	6.61	6.46	6.08	5.37	4.44	3.51	2.59	1.58	0.68	0.64	0.66	0.69	0.65	0.61	0.61	0.57	0.53	0.46
140	2.88	2.86	2.68	2.31	2.01	1.52	0.76	0.65	0.63	0.66	0.67	0.68	0.67	0.64	0.63	0.62	0.57	0.55	0.50
145	0.62	0.63	0.64	0.65	0.63	0.64	0.65	0.65	0.65	0.68	0.69	0.69	0.67	0.66	0.66	0.62	0.58	0.57	0.54
150	0.57	0.57	0.58	0.58	0.59	0.61	0.63	0.65	0.68	0.70	0.69	0.68	0.67	0.66	0.64	0.60	0.60	0.59	0.58
155	0.58	0.59	0.59	0.61	0.63	0.64	0.65	0.66	0.67	0.67	0.67	0.67	0.67	0.65	0.61	0.61	0.62	0.62	0.61
160	0.59	0.60	0.60	0.61	0.61	0.61	0.62	0.64	0.65	0.67	0.68	0.68	0.65	0.63	0.62	0.63	0.64	0.66	0.64
165	0.49	0.48	0.48	0.49	0.51	0.54	0.57	0.60	0.62	0.64	0.64	0.63	0.62	0.63	0.65	0.67	0.67	0.68	0.66
170	0.42	0.44	0.45	0.46	0.47	0.49	0.52	0.55	0.57	0.59	0.61	0.62	0.64	0.67	0.69	0.69	0.69	0.68	0.65
175	0.38	0.38	0.37	0.38	0.40	0.42	0.43	0.46	0.48	0.51	0.54	0.57	0.60	0.61	0.61	0.60	0.59	0.56	0.54
180	0.90	0.90	0.91	0.92	0.90	0.89	0.89	0.89	0.88	0.87	0.94	0.85	0.77	0.68	0.60	0.52	0.47	0.44	0.40

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:JALS
 Test Date:2023-10-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.266
 Humidity:48.6%
 Test Distance:2.493m [K=1.0000]
 Remarks:VALIDACION TECNOLOGICA
 ENSAYO LABORATORIO

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:127.0V I:1.973A P:247.4W PF:0.9868 Lamp Flux:27299x1 lm																		
NAME: BS2000									TYPE:HORTICULTURA					SERIAL No.:NI				
DIM.: NA									SPEC.:GABINETE					PROTECTION ANGLE:NA				
MFR.: BEGHELLI									SUR.:NA									

Table--2

UNIT: cd

C(DEC) γ (DEC)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	7681	7679	7676	7676	7676	7676	7679	7680	7682	7684	7686	7687	7690	7691	7694	7696	7699	7732	7733
5	7678	7680	7671	7666	7673	7676	7680	7682	7687	7694	7692	7691	7680	7674	7674	7676	7679	7730	7732
10	7676	7663	7671	7675	7677	7653	7644	7632	7646	7640	7621	7631	7624	7617	7618	7612	7607	7651	7657
15	7664	7662	7669	7638	7613	7622	7607	7592	7587	7568	7546	7504	7483	7481	7476	7479	7473	7510	7513
20	7631	7648	7620	7604	7588	7570	7553	7496	7458	7438	7413	7387	7357	7326	7303	7298	7303	7359	7365
25	7616	7626	7578	7572	7543	7474	7429	7390	7332	7275	7254	7230	7189	7147	7120	7098	7088	7167	7170
30	7601	7564	7558	7519	7431	7374	7299	7239	7197	7109	7060	7011	6940	6892	6849	6812	6801	6892	6900
35	7571	7520	7489	7395	7322	7232	7176	7054	6978	6875	6777	6669	6698	6718	6619	6506	6448	6655	6668
40	7534	7482	7398	7277	7156	7067	6933	6806	6656	6612	6524	6335	6286	6053	5919	5874	5831	5956	5954
45	7405	7342	7220	7108	6971	6821	6634	6438	6317	6189	5802	5693	5671	5557	5602	5672	5703	5627	5613
50	7232	7196	7035	6868	6690	6441	6391	6102	5604	5524	5492	5587	5378	5224	5316	5147	4983	5384	5387
55	6866	6755	6620	6461	6243	6177	5629	5352	5435	5258	5021	4658	4700	4592	4480	4452	4311	4580	4584
60	6279	6182	6031	5830	5810	5043	5098	4980	4520	4365	4157	3961	3967	3847	3915	3966	3944	3975	3945
65	5515	5435	5312	4934	4569	4657	4070	3931	3907	3666	3584	3378	3193	3167	3216	3131	3111	3247	3240
70	4422	4275	4096	3757	3862	3323	3341	2956	2886	2955	2767	2450	2331	2237	2319	2246	2183	2432	2444
75	2918	2844	2668	2595	2336	2356	2533	2160	1892	1666	1796	1584	1623	1473	1396	1409	1431	1421	1383
80	1589	1455	1432	1402	1315	1281	1350	1078	1089	1118	913	846	732	699	601	588	587	733	720
85	616	593	564	550	544	537	505	560	489	484	425	368	400	413	395	370	346	419	406
90	214	159	143	142	126	119	130	108	103	104	91.7	92.0	95.5	97.7	92.3	93.2	97.7	104	103
95	223	178	145	112	84.3	31.0	22.7	24.5	26.6	37.2	44.8	47.0	49.6	50.0	47.1	43.8	42.4	43.9	42.6
100	94.0	73.7	63.3	51.1	70.5	74.9	69.2	53.0	29.3	20.9	10.6	9.92	0.21	1.77	2.58	2.86	2.96	16.3	15.6
105	21.2	12.3	14.1	7.35	19.4	53.9	118	114	80.0	81.0	81.3	64.3	57.6	48.5	39.7	38.3	36.6	25.7	17.2
110	0.52	0.58	0.60	1.86	8.05	18.8	31.1	64.0	119	122	99.4	69.6	55.3	54.9	55.2	56.2	57.5	67.7	65.3
115	0.50	0.52	0.57	0.60	2.33	7.14	14.2	24.3	30.4	44.6	71.2	102	110	102	96.6	89.1	83.5	60.3	62.6
120	0.49	0.53	0.56	0.60	0.69	2.50	5.68	11.5	15.1	19.5	23.8	26.1	30.4	37.9	46.2	53.3	58.0	79.5	77.5
125	0.43	0.53	0.55	0.60	0.60	0.74	2.22	4.56	7.26	11.0	12.8	15.5	17.8	16.9	17.7	19.1	19.6	22.0	21.8
130	0.47	0.53	0.56	0.59	0.63	0.59	0.74	1.67	2.96	4.81	6.53	8.46	10.2	10.7	11.6	12.6	13.1	14.4	14.3
135	0.47	0.50	0.56	0.59	0.61	0.65	0.64	0.63	0.82	1.95	2.86	4.11	5.17	5.96	6.62	7.28	7.63	9.15	9.13
140	0.49	0.50	0.54	0.58	0.60	0.62	0.64	0.66	0.67	0.63	0.70	1.46	2.13	2.64	2.96	3.30	3.58	4.90	4.89
145	0.52	0.54	0.54	0.58	0.59	0.61	0.64	0.63	0.64	0.65	0.65	0.66	0.64	0.65	0.69	0.89	1.20	1.91	1.89
150	0.54	0.55	0.55	0.56	0.57	0.57	0.59	0.60	0.61	0.60	0.59	0.60	0.61	0.62	0.62	0.62	0.62	0.91	0.93
155	0.58	0.57	0.57	0.56	0.57	0.57	0.57	0.56	0.56	0.55	0.55	0.55	0.53	0.52	0.52	0.53	0.54	0.93	0.95
160	0.61	0.57	0.57	0.57	0.56	0.57	0.58	0.58	0.56	0.54	0.52	0.51	0.51	0.51	0.52	0.54	0.56	0.95	0.98
165	0.62	0.58	0.56	0.55	0.54	0.53	0.51	0.50	0.49	0.48	0.47	0.45	0.43	0.43	0.44	0.47	0.50	0.92	0.94
170	0.61	0.57	0.53	0.50	0.48	0.47	0.45	0.44	0.43	0.42	0.41	0.39	0.38	0.37	0.37	0.37	0.39	0.89	0.90
175	0.52	0.49	0.46	0.43	0.41	0.39	0.38	0.37	0.36	0.36	0.35	0.34	0.34	0.34	0.34	0.35	0.35	0.89	0.90
180	0.37	0.37	0.40	0.42	0.45	0.49	0.52	0.57	0.62	0.65	0.69	0.75	0.81	0.86	0.92	0.97	1.06	0.85	0.86

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:JALS
 Test Date:2023-10-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.266
 Humidity:48.6%
 Test Distance:2.493m [K=1.0000]
 Remarks:VALIDACION TECNOLOGICA
 ENSAYO LABORATORIO

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:127.0V I:1.973A P:247.4W PF:0.9868 Lamp Flux:27299x1 lm																		
NAME: BS2000									TYPE:HORTICULTURA					SERIAL No.:NI				
DIM.: NA									SPEC.:GABINETE					PROTECTION ANGLE:NA				
MFR.: BEGHELLI									SUR.:NA									

Table--3

UNIT: cd

C(DEC) γ (DEC)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	7734	7734	7733	7731	7729	7725	7722	7719	7714	7710	7707	7702	7698	7694	7690	7687	7684	7681	7679
5	7732	7733	7732	7731	7727	7723	7718	7719	7713	7709	7706	7698	7691	7697	7695	7687	7688	7687	7689
10	7666	7676	7674	7671	7682	7684	7686	7672	7679	7672	7688	7709	7695	7693	7683	7691	7685	7683	7675
15	7525	7541	7547	7552	7576	7603	7614	7624	7632	7640	7659	7648	7663	7693	7682	7670	7676	7676	7662
20	7376	7394	7395	7422	7441	7462	7479	7488	7525	7577	7602	7621	7637	7632	7668	7654	7651	7659	7661
25	7175	7181	7225	7242	7268	7284	7311	7363	7413	7448	7488	7555	7583	7610	7622	7640	7629	7621	7627
30	6904	6921	6952	6988	7045	7076	7129	7207	7238	7301	7379	7415	7507	7545	7548	7591	7574	7563	7547
35	6706	6753	6695	6671	6702	6802	6884	6978	7047	7159	7205	7304	7363	7463	7507	7538	7511	7513	7475
40	5972	6040	6223	6343	6328	6598	6590	6647	6788	6932	7053	7128	7249	7330	7427	7465	7467	7480	7420
45	5576	5567	5631	5720	5719	5841	6213	6318	6480	6618	6811	6942	7067	7214	7328	7360	7374	7400	7333
50	5364	5246	5159	5511	5625	5447	5556	5599	6100	6405	6431	6698	6854	6997	7152	7238	7229	7256	7164
55	4618	4676	4721	4640	4754	4855	5210	5396	5362	5506	5990	6184	6496	6619	6813	6908	6901	6912	6810
60	3855	3776	3870	3981	3932	4348	4453	4452	4982	5133	5120	5533	5795	6061	6196	6319	6280	6274	6195
65	3251	3229	3126	3372	3563	3608	3533	3724	4005	4020	4528	4588	4988	5186	5326	5425	5399	5398	5262
70	2471	2470	2420	2467	2361	2577	3007	2980	3018	3302	3311	3524	3660	3828	4054	4110	4158	4072	3954
75	1379	1446	1610	1530	1498	1760	1848	1884	1949	2220	2209	2377	2346	2448	2496	2633	2669	2634	2553
80	737	789	875	927	995	1010	1090	1106	1091	1058	1210	1155	1244	1188	1291	1376	1401	1395	1274
85	421	397	399	391	407	407	400	420	413	505	494	501	496	519	534	575	596	582	544
90	101	97.7	95.6	96.6	98.1	98.1	101	106	99.1	99.1	118	118	144	161	176	187	165	180	165
95	42.1	44.2	46.5	50.7	49.1	45.4	36.3	30.0	20.6	9.25	29.0	74.4	109	132	163	199	220	207	173
100	16.6	7.20	15.7	0.05	25.0	20.1	14.6	31.2	57.3	61.2	50.6	71.8	42.0	44.6	52.9	69.0	74.0	71.7	55.3
105	21.6	28.2	37.7	51.1	80.9	87.3	66.2	54.1	80.4	143	72.0	22.2	8.55	1.79	1.60	6.06	6.43	6.51	1.81
110	59.1	53.4	48.9	46.4	49.0	70.7	122	144	89.0	37.4	24.5	10.7	3.03	0.70	0.62	0.51	0.40	0.53	0.58
115	70.6	83.8	99.4	117	126	88.7	60.4	33.6	24.5	17.0	9.76	3.34	0.71	0.66	0.54	0.48	0.37	0.48	0.52
120	75.0	65.4	54.2	38.9	30.8	26.4	21.5	17.6	13.1	7.82	3.43	0.89	0.69	0.57	0.53	0.46	0.39	0.48	0.51
125	21.1	20.2	19.1	18.0	17.4	15.8	12.7	9.91	5.92	2.98	1.00	0.68	0.60	0.55	0.50	0.41	0.37	0.44	0.49
130	14.2	13.8	12.9	11.6	10.7	8.37	6.22	4.18	2.38	0.79	0.66	0.64	0.60	0.54	0.50	0.42	0.39	0.48	0.53
135	8.75	8.15	7.29	6.47	5.29	4.02	2.80	1.58	0.78	0.71	0.67	0.64	0.59	0.55	0.49	0.45	0.43	0.51	0.53
140	4.47	4.15	3.44	3.00	2.22	1.55	0.86	0.81	0.76	0.76	0.72	0.67	0.62	0.57	0.49	0.47	0.46	0.51	0.53
145	1.80	1.57	1.02	0.94	0.91	0.88	0.86	0.86	0.82	0.80	0.75	0.70	0.66	0.59	0.53	0.50	0.50	0.53	0.56
150	0.93	0.94	0.94	0.96	0.96	0.95	0.94	0.92	0.88	0.83	0.79	0.74	0.68	0.61	0.58	0.53	0.54	0.55	0.59
155	0.97	0.98	0.99	1.00	1.00	1.00	0.97	0.94	0.91	0.86	0.82	0.75	0.69	0.66	0.61	0.57	0.57	0.58	0.59
160	1.00	1.01	1.01	1.01	1.01	1.00	0.98	0.96	0.93	0.88	0.82	0.77	0.74	0.69	0.65	0.62	0.61	0.60	0.59
165	0.96	0.97	0.98	0.98	0.99	0.98	0.97	0.94	0.91	0.88	0.84	0.81	0.77	0.72	0.68	0.66	0.65	0.64	0.62
170	0.91	0.91	0.91	0.91	0.91	0.92	0.92	0.92	0.91	0.89	0.86	0.82	0.78	0.75	0.72	0.70	0.68	0.67	0.65
175	0.90	0.90	0.89	0.88	0.88	0.87	0.87	0.87	0.85	0.84	0.80	0.77	0.73	0.71	0.68	0.66	0.64	0.62	0.61
180	0.86	0.87	0.88	0.87	0.87	0.87	0.87	0.86	0.84	0.82	0.77	0.73	0.68	0.64	0.60	0.57	0.54	0.52	0.50

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:JALS
 Test Date:2023-10-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.266
 Humidity:48.6%
 Test Distance:2.493m [K=1.0000]
 Remarks:VALIDACION TECNOLOGICA
 ENSAYO LABORATORIO

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:127.0V I:1.973A P:247.4W PF:0.9868 Lamp Flux:27299x1 lm																	
NAME: BS2000									TYPE:HORTICULTURA						SERIAL No.:NI		
DIM.: NA									SPEC.:GABINETE						PROTECTION ANGLE:NA		
MFR.: BEGHELLI									SUR.:NA								

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355			
0	7676	7676	7676	7676	7679	7680	7682	7684	7686	7687	7690	7691	7694	7696	7699			
5	7687	7681	7679	7677	7686	7694	7694	7698	7694	7695	7690	7687	7689	7689	7688			
10	7673	7689	7679	7664	7652	7640	7637	7644	7640	7641	7640	7635	7631	7627	7621			
15	7674	7644	7626	7625	7623	7610	7592	7577	7571	7560	7556	7544	7532	7532	7530			
20	7630	7602	7596	7576	7549	7530	7513	7487	7457	7430	7407	7389	7377	7352	7350			
25	7580	7570	7531	7502	7462	7417	7369	7324	7282	7250	7223	7191	7158	7164	7143			
30	7529	7491	7444	7392	7316	7247	7186	7126	7078	7039	6968	6921	6887	6853	6862			
35	7456	7401	7332	7227	7139	7054	6976	6884	6776	6770	6817	6632	6384	6337	6351			
40	7356	7294	7164	7045	6932	6790	6672	6746	6229	6461	6139	5921	6002	6096	6122			
45	7230	7094	6954	6822	6618	6638	6110	6024	5861	5907	5802	5847	5882	5893	5926			
50	7040	6850	6698	6439	6164	5974	5779	5682	5684	5672	5324	5464	5196	4889	4855			
55	6657	6491	6185	5770	5499	5571	5531	5067	4904	4594	4597	4655	4553	4146	4049			
60	6021	5815	5367	5159	5232	4780	4331	4286	4182	4179	3921	4051	4201	4260	4332			
65	5152	4844	4603	4517	3917	3891	3966	3661	3737	3420	3329	3113	3048	3087	3110			
70	3804	3721	3538	3166	3359	2976	2960	2877	2641	2651	2701	2681	2446	2403	2403			
75	2409	2300	2298	2143	2320	2007	1943	1737	1625	1701	1590	1483	1284	1243	1255			
80	1219	1226	1182	1211	1143	1106	1249	1126	900	864	766	698	635	600	576			
85	521	516	491	526	468	471	487	493	525	425	431	440	453	458	461			
90	151	129	122	106	113	97.9	101	97.1	94.4	95.9	96.8	98.0	98.0	96.1	95.8			
95	145	118	100	33.0	7.89	33.8	31.7	43.0	55.7	52.1	50.3	58.9	52.5	48.9	47.7			
100	44.7	40.4	65.3	59.6	62.3	58.8	30.1	25.3	22.0	12.6	12.3	2.46	3.95	10.3	10.1			
105	0.77	6.54	18.6	57.4	125	104	68.2	75.5	91.3	70.1	53.0	34.2	26.7	23.2	23.8			
110	0.63	1.52	8.67	21.2	33.7	78.7	126	123	83.5	52.3	45.0	42.3	48.9	58.3	65.8			
115	0.54	0.63	2.14	7.69	15.3	22.5	30.1	56.5	82.9	112	114	100	85.3	73.4	68.0			
120	0.56	0.53	0.67	2.29	6.42	11.2	17.0	21.2	22.8	28.5	37.9	53.6	64.3	72.6	75.8			
125	0.51	0.57	0.56	0.69	1.76	4.60	7.83	11.0	14.8	17.7	19.1	18.6	19.4	20.5	21.3			
130	0.54	0.57	0.61	0.58	0.67	1.34	3.01	5.24	7.03	8.73	10.1	11.6	13.1	13.9	14.4			
135	0.56	0.56	0.61	0.64	0.64	0.66	0.74	1.68	2.86	3.86	5.22	6.11	6.84	7.42	7.76			
140	0.56	0.57	0.59	0.64	0.66	0.66	0.66	0.69	0.74	1.10	1.83	2.39	2.99	3.34	3.55			
145	0.57	0.60	0.61	0.63	0.66	0.69	0.70	0.68	0.68	0.68	0.69	0.72	0.74	0.78	0.82			
150	0.59	0.61	0.63	0.64	0.65	0.67	0.70	0.72	0.72	0.72	0.73	0.73	0.75	0.78	0.82			
155	0.61	0.62	0.63	0.65	0.66	0.67	0.68	0.70	0.71	0.74	0.76	0.78	0.81	0.84	0.88			
160	0.61	0.63	0.63	0.64	0.65	0.67	0.68	0.69	0.71	0.72	0.74	0.77	0.80	0.85	0.90			
165	0.61	0.63	0.65	0.66	0.66	0.67	0.67	0.69	0.70	0.72	0.74	0.76	0.80	0.85	0.89			
170	0.64	0.63	0.64	0.66	0.67	0.68	0.69	0.70	0.71	0.72	0.74	0.75	0.78	0.82	0.86			
175	0.60	0.60	0.60	0.61	0.62	0.64	0.65	0.67	0.68	0.70	0.72	0.74	0.76	0.80	0.85			
180	0.48	0.48	0.48	0.49	0.50	0.52	0.55	0.57	0.59	0.61	0.63	0.65	0.69	0.74	0.78			

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:JALS
 Test Date:2023-10-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.266
 Humidity:48.6%
 Test Distance:2.493m [K=1.0000]
 Remarks:VALIDACION TECNOLOGICA
 ENSAYO LABORATORIO

Photometric Data Table [cd]

G/C	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
0.0	7732	7733	7734	7734	7733	7731	7729	7725	7722	7719
3.0	7723	7725	7727	7730	7732	7735	7733	7730	7729	7722
6.0	7680	7681	7683	7684	7687	7688	7689	7698	7692	7698
9.0	7643	7645	7651	7658	7661	7672	7666	7664	7671	7667
12.0	7587	7592	7598	7604	7609	7609	7607	7619	7627	7646
15.0	7509	7515	7521	7537	7549	7553	7568	7580	7597	7598
18.0	7407	7413	7417	7432	7449	7465	7485	7516	7535	7551
21.0	7302	7310	7314	7311	7325	7353	7389	7410	7445	7483
24.0	7158	7166	7176	7190	7217	7254	7288	7298	7342	7395
27.0	6980	6995	7021	7050	7090	7124	7159	7194	7259	7291
30.0	6845	6859	6907	6906	6896	6935	7000	7090	7134	7194
33.0	6402	6438	6535	6747	6869	6788	6882	6885	6975	7079
36.0	6221	6285	6445	6578	6463	6347	6722	6741	6831	6902
39.0	6132	6147	6134	6076	5990	6118	6535	6282	6753	6792
42.0	5907	5906	5889	5896	5947	6084	5982	6047	6360	6561
45.0	5562	5631	5780	5951	5909	5889	5845	6015	5844	6377
48.0	5167	5255	5469	5607	5381	5593	5842	5823	5817	5821
51.0	4819	4846	4946	5116	4886	5073	5391	5569	5665	5723
54.0	4084	4050	4125	4566	4786	4676	4930	4939	5083	5648
57.0	4161	4123	4000	4015	4379	4056	4531	4495	4618	5139
60.0	3900	3972	4179	4385	4192	4004	3988	4045	4347	4442
63.0	3104	3083	3053	3247	3550	3482	4133	3889	3981	4050
66.0	2943	2927	2945	2929	2922	3044	3089	3258	3649	3586
69.0	2374	2422	2467	2549	2796	2788	2660	2721	2962	3059
72.0	1750	1762	1785	1667	1963	1965	2167	2314	2423	2496
75.0	1751	1676	1531	1382	1245	1307	1561	1733	1589	1916
78.0	890.6	935.0	1003	1048	1092	1164	1415	1604	1248	1237
81.0	739.6	745.5	738.1	740.1	726.8	685.3	646.5	641.7	657.5	799.0
84.0	550.5	554.8	545.4	528.9	512.4	514.1	483.8	483.0	569.1	639.3
87.0	216.0	220.2	220.3	201.2	210.4	218.7	213.5	236.2	279.3	217.0
90.0	82.25	81.44	78.66	77.13	78.16	80.08	79.57	78.26	81.22	85.02
93.0	51.68	51.83	51.78	53.99	55.59	56.01	55.10	57.19	56.06	46.69
96.0	45.82	45.36	42.15	40.23	36.38	29.84	25.68	22.51	18.74	15.20
99.0	32.36	10.67	10.96	10.30	10.30	2.240	6.040	11.05	25.67	46.66
102.0	31.85	21.86	19.72	25.79	31.24	37.43	38.35	57.44	76.10	96.85
105.0	33.08	34.84	37.98	48.84	52.73	71.95	88.80	94.95	86.53	75.13
108.0	76.85	77.77	76.92	73.56	70.77	59.95	52.42	56.43	78.67	116.9
111.0	41.32	41.35	41.85	43.11	46.55	57.42	79.99	104.9	130.2	110.1
114.0	68.22	68.76	72.17	80.39	89.85	104.9	117.1	105.1	71.38	41.72
117.0	98.12	98.49	99.11	101.4	95.90	79.54	63.77	43.67	29.62	23.53
120.0	56.20	56.53	53.93	49.75	41.97	33.40	26.50	23.79	20.84	17.51
123.0	25.11	24.97	23.96	24.19	21.90	20.57	18.58	17.51	14.62	10.94
126.0	16.72	16.77	16.69	16.93	16.82	16.14	14.31	11.56	9.670	6.866
129.0	14.06	14.12	13.82	13.22	12.06	10.58	9.533	7.957	5.993	3.640
132.0	9.292	9.333	9.201	8.795	8.349	7.454	6.322	4.623	3.251	1.930
135.0	6.613	6.612	6.460	6.076	5.373	4.439	3.513	2.595	1.581	0.6830
138.0	4.026	4.003	3.826	3.511	3.141	2.505	1.842	0.9985	0.6686	0.6215
141.0	2.341	2.319	2.131	1.856	1.521	0.8917	0.6683	0.6427	0.6352	0.6503
144.0	0.6920	0.6939	0.6799	0.6616	0.6517	0.6403	0.6454	0.6548	0.6579	0.6699
147.0	0.5881	0.5991	0.6136	0.6272	0.6308	0.6240	0.6331	0.6384	0.6614	0.6775
150.0	0.5652	0.5728	0.5825	0.5848	0.5915	0.6057	0.6320	0.6529	0.6839	0.6995
153.0	0.5626	0.5676	0.5734	0.5852	0.6035	0.6282	0.6605	0.6813	0.6816	0.6812
156.0	0.5963	0.6045	0.6109	0.6228	0.6327	0.6337	0.6376	0.6490	0.6597	0.6676
159.0	0.5941	0.6036	0.6091	0.6138	0.6123	0.6127	0.6192	0.6352	0.6496	0.6663
162.0	0.5715	0.5778	0.5837	0.5893	0.5875	0.5981	0.6197	0.6412	0.6604	0.6802
165.0	0.4894	0.4844	0.4820	0.4932	0.5112	0.5400	0.5744	0.6019	0.6247	0.6352
168.0	0.4421	0.4507	0.4629	0.4738	0.4880	0.5105	0.5360	0.5605	0.5834	0.6008
171.0	0.4059	0.4249	0.4375	0.4463	0.4593	0.4761	0.5008	0.5339	0.5603	0.5819
174.0	0.3723	0.3791	0.3800	0.3923	0.4045	0.4182	0.4382	0.4644	0.4972	0.5266
177.0	0.6807	0.6820	0.6820	0.6751	0.6675	0.6591	0.6620	0.6680	0.6664	0.6609
180.0	0.8986	0.9033	0.9110	0.9161	0.9020	0.8947	0.8915	0.8868	0.8795	0.8658

G/C	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0
0.0	7714	7710	7707	7702	7698	7694	7690	7687	7684	7681
3.0	7710	7704	7702	7700	7703	7700	7697	7689	7682	7676
6.0	7705	7711	7715	7714	7697	7693	7697	7691	7680	7675
9.0	7667	7675	7679	7694	7707	7698	7686	7687	7679	7680
12.0	7653	7662	7657	7672	7687	7696	7682	7683	7674	7674
15.0	7611	7627	7639	7644	7671	7687	7687	7670	7669	7664
18.0	7571	7574	7603	7629	7627	7647	7672	7655	7659	7646
21.0	7521	7547	7564	7590	7611	7624	7648	7647	7649	7632
24.0	7442	7483	7529	7547	7605	7599	7629	7634	7640	7617
27.0	7355	7413	7482	7512	7545	7580	7606	7622	7627	7609
30.0	7250	7318	7397	7466	7515	7569	7578	7620	7612	7601

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.4DEG
 Operators: JALS
 Test Date: 2023-10-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.266
 Humidity: 48.6%
 Test Distance: 2.493m [K=1.0000]
 Remarks: VALIDACION TECNOLOGICA
 ENSAYO LABORATORIO

Photometric Data Table [cd]

33.0	7149	7222	7317	7395	7460	7506	7546	7602	7593	7581
36.0	7032	7117	7209	7314	7417	7462	7521	7572	7569	7570
39.0	6840	6992	7090	7216	7331	7428	7484	7535	7538	7539
42.0	6716	6804	6965	7074	7218	7334	7424	7468	7484	7485
45.0	6446	6670	6786	6958	7104	7244	7329	7393	7418	7405
48.0	6279	6467	6584	6790	6942	7120	7243	7310	7347	7310
51.0	5741	6120	6422	6578	6804	6958	7129	7176	7225	7187
54.0	5659	5578	5831	6331	6534	6707	6845	6944	6981	6946
57.0	5626	5547	5478	5929	6178	6344	6517	6628	6649	6647
60.0	4992	5359	5316	5324	5763	5966	6111	6248	6266	6279
63.0	4081	4585	4933	4930	5160	5520	5669	5799	5834	5837
66.0	3809	3674	4175	4603	4588	4964	5148	5299	5348	5337
69.0	3144	3483	3290	3774	4198	4118	4440	4606	4673	4691
72.0	2846	2702	2967	2856	3322	3292	3606	3736	3820	3789
75.0	2072	2342	2156	2490	2338	2698	2677	2807	2919	2918
78.0	1448	1561	1503	1811	1717	1800	1855	2023	2091	2097
81.0	1025	1005	1040	1100	1104	1089	1243	1297	1350	1354
84.0	533.3	522.2	618.9	570.4	637.3	651.2	659.5	739.9	777.7	775.5
87.0	268.6	293.8	268.5	279.2	271.3	266.0	293.7	324.0	339.7	335.5
90.0	86.82	83.93	80.70	82.69	102.7	121.8	140.3	150.5	217.1	214.2
93.0	32.75	18.04	29.33	36.41	93.27	134.5	183.2	221.1	256.6	244.3
96.0	8.788	22.09	39.46	55.07	91.50	105.2	143.0	182.7	208.9	202.5
99.0	63.33	89.45	68.47	77.44	55.39	56.95	71.01	95.17	120.2	120.4
102.0	105.7	85.31	108.4	67.66	23.26	21.23	27.00	42.25	48.27	52.97
105.0	92.26	134.0	88.28	26.00	10.80	1.947	3.814	10.84	20.32	21.16
108.0	134.2	76.09	30.10	17.55	5.721	0.7029	0.6616	0.5760	5.534	5.797
111.0	59.11	28.17	19.50	9.135	2.353	0.6821	0.6272	0.5564	0.4345	0.5082
114.0	25.47	20.50	11.65	4.074	0.7044	0.6586	0.5665	0.5676	0.4541	0.5086
117.0	19.16	12.56	6.462	2.005	0.7040	0.5580	0.5929	0.5596	0.4263	0.5053
120.0	12.18	7.210	3.190	0.7879	0.6680	0.6028	0.5938	0.5578	0.4304	0.4877
123.0	7.236	3.682	1.278	0.7168	0.5993	0.6266	0.6043	0.5525	0.4149	0.4473
126.0	3.861	1.803	0.7624	0.6173	0.6584	0.6102	0.5884	0.5080	0.4142	0.4301
129.0	2.048	0.7575	0.6451	0.6462	0.6553	0.6108	0.5929	0.5210	0.4255	0.4629
132.0	0.7293	0.6422	0.6654	0.6814	0.6263	0.6074	0.5855	0.5205	0.4426	0.4676
135.0	0.6359	0.6565	0.6857	0.6543	0.6122	0.6078	0.5690	0.5314	0.4624	0.4709
138.0	0.6556	0.6713	0.6743	0.6426	0.6196	0.6125	0.5618	0.5379	0.4844	0.4806
141.0	0.6768	0.6850	0.6699	0.6456	0.6387	0.6248	0.5681	0.5516	0.5100	0.4960
144.0	0.6886	0.6924	0.6675	0.6575	0.6531	0.6234	0.5784	0.5636	0.5341	0.5117
147.0	0.7046	0.6819	0.6726	0.6669	0.6564	0.6133	0.5900	0.5801	0.5574	0.5272
150.0	0.6866	0.6798	0.6689	0.6640	0.6439	0.6009	0.5992	0.5945	0.5789	0.5435
153.0	0.6813	0.6736	0.6652	0.6533	0.6203	0.6024	0.6109	0.6113	0.5987	0.5659
156.0	0.6729	0.6741	0.6659	0.6423	0.6107	0.6148	0.6206	0.6287	0.6165	0.5841
159.0	0.6796	0.6779	0.6606	0.6300	0.6171	0.6282	0.6367	0.6490	0.6358	0.6021
162.0	0.6866	0.6729	0.6442	0.6248	0.6304	0.6456	0.6542	0.6658	0.6513	0.6165
165.0	0.6361	0.6299	0.6197	0.6320	0.6538	0.6654	0.6741	0.6784	0.6585	0.6239
168.0	0.6103	0.6115	0.6241	0.6517	0.6748	0.6884	0.6922	0.6857	0.6614	0.6259
171.0	0.5978	0.6166	0.6493	0.6775	0.6906	0.6903	0.6802	0.6640	0.6344	0.5993
174.0	0.5598	0.5947	0.6262	0.6420	0.6457	0.6393	0.6270	0.6048	0.5782	0.5483
177.0	0.6520	0.6447	0.6340	0.6138	0.5887	0.5583	0.5281	0.5024	0.4782	0.4573
180.0	0.9395	0.8485	0.7660	0.6807	0.5979	0.5182	0.4702	0.4360	0.4016	0.3743
G/C	100.0	105.0	110.0	115.0	120.0	125.0	130.0	135.0	140.0	145.0
0.0	7679	7676	7676	7676	7676	7679	7680	7682	7684	7686
3.0	7676	7677	7676	7670	7670	7674	7681	7686	7690	7692
6.0	7677	7669	7671	7676	7678	7681	7689	7686	7669	7665
9.0	7666	7673	7675	7679	7670	7649	7644	7634	7644	7646
12.0	7660	7666	7673	7649	7636	7633	7642	7624	7605	7594
15.0	7662	7669	7638	7613	7622	7607	7592	7587	7568	7546
18.0	7650	7645	7621	7596	7577	7550	7550	7494	7469	7460
21.0	7644	7606	7607	7573	7562	7524	7472	7447	7413	7389
24.0	7636	7586	7583	7554	7507	7436	7413	7371	7330	7279
27.0	7598	7584	7534	7504	7424	7392	7333	7258	7236	7191
30.0	7564	7558	7519	7431	7374	7299	7239	7197	7109	7060
33.0	7531	7510	7456	7371	7298	7205	7146	7058	6998	6902
36.0	7518	7477	7374	7294	7184	7123	7017	6934	6814	6697
39.0	7498	7424	7311	7204	7121	6977	6874	6731	6590	6664
42.0	7434	7316	7209	7076	6957	6841	6660	6526	6500	6309
45.0	7342	7220	7108	6971	6821	6634	6438	6317	6189	5802
48.0	7268	7128	6950	6797	6610	6358	6230	6015	5637	5580
51.0	7125	6960	6826	6625	6350	6278	5899	5515	5387	5579
54.0	6860	6729	6562	6349	6216	5926	5409	5346	5409	5118
57.0	6536	6379	6255	5954	5672	5256	5293	5196	4872	4467
60.0	6182	6031	5830	5810	5043	5098	4980	4520	4365	4157
63.0	5718	5613	5303	5201	4766	4696	4178	4209	4010	3828
66.0	5245	5140	4971	4368	4458	3836	3851	3530	3407	3288

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:JALS
 Test Date:2023-10-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.266
 Humidity:48.6%
 Test Distance:2.493m [K=1.0000]
 Remarks: VALIDACION TECNOLOGICA
 ENSAYO LABORATORIO

Photometric Data Table [cd]

69.0	4562	4392	4136	3998	3537	3453	3253	3085	3005	3032
72.0	3725	3439	3403	3174	3013	2804	2666	2810	2302	2151
75.0	2844	2668	2595	2336	2356	2533	2160	1892	1666	1796
78.0	1969	1889	1704	1754	1591	1574	1518	1408	1226	1252
81.0	1246	1191	1196	1108	1148	1003	967.3	983.1	840.2	748.6
84.0	756.0	695.3	663.0	634.8	690.6	560.4	579.9	589.0	586.7	537.1
87.0	319.5	308.4	309.1	346.4	325.2	316.6	277.7	267.2	234.3	271.1
90.0	159.4	143.3	142.5	125.7	118.6	129.7	108.4	103.4	104.0	91.70
93.0	195.2	149.9	116.0	64.65	44.32	53.49	57.97	63.18	66.91	65.36
96.0	164.9	138.0	123.7	66.44	39.01	17.92	13.55	14.59	20.57	26.43
99.0	90.31	79.42	68.07	77.21	64.50	49.68	31.24	20.32	11.06	0.0635
102.0	44.48	32.03	29.40	41.90	96.96	92.60	79.98	73.38	52.24	31.73
105.0	12.29	14.05	7.350	19.35	53.88	118.1	114.4	79.95	81.04	81.28
108.0	1.459	0.6881	3.317	11.80	25.65	60.00	118.0	125.1	93.99	63.81
111.0	0.5575	0.6018	1.223	6.056	15.32	26.37	45.86	91.43	123.0	114.6
114.0	0.5340	0.5984	0.6117	2.864	9.078	17.26	24.95	35.76	60.59	98.51
117.0	0.5337	0.4885	0.6200	1.261	4.720	11.26	17.70	23.10	28.94	37.62
120.0	0.5322	0.5589	0.5994	0.6906	2.502	5.683	11.47	15.07	19.55	23.82
123.0	0.5367	0.5457	0.5584	0.6942	1.114	3.211	6.100	10.73	13.22	16.22
126.0	0.5307	0.5621	0.6117	0.5652	0.7338	1.759	3.762	6.048	9.381	11.58
129.0	0.5261	0.5663	0.5910	0.6369	0.6033	0.7547	2.110	3.710	5.526	7.698
132.0	0.5031	0.5608	0.5972	0.6262	0.6340	0.6277	0.8128	2.151	3.325	4.893
135.0	0.5015	0.5551	0.5885	0.6136	0.6477	0.6438	0.6331	0.8238	1.946	2.857
138.0	0.4976	0.5487	0.5804	0.6122	0.6200	0.6559	0.6485	0.6265	0.7241	1.515
141.0	0.5123	0.5335	0.5668	0.5946	0.6252	0.6327	0.6671	0.6625	0.6594	0.6461
144.0	0.5287	0.5376	0.5713	0.5947	0.6160	0.6359	0.6338	0.6593	0.6596	0.6556
147.0	0.5436	0.5345	0.5598	0.5709	0.5999	0.6175	0.6269	0.6163	0.6249	0.6390
150.0	0.5530	0.5513	0.5560	0.5733	0.5712	0.5931	0.5987	0.6079	0.5964	0.5867
153.0	0.5617	0.5637	0.5541	0.5741	0.5718	0.5646	0.5727	0.5734	0.5772	0.5716
156.0	0.5668	0.5696	0.5615	0.5646	0.5820	0.5761	0.5562	0.5533	0.5419	0.5362
159.0	0.5692	0.5707	0.5711	0.5685	0.5698	0.5852	0.5750	0.5540	0.5305	0.5215
162.0	0.5738	0.5678	0.5680	0.5675	0.5657	0.5630	0.5658	0.5693	0.5437	0.5237
165.0	0.5822	0.5567	0.5493	0.5409	0.5292	0.5112	0.5021	0.4932	0.4830	0.4663
168.0	0.5839	0.5456	0.5216	0.5052	0.4886	0.4768	0.4613	0.4453	0.4364	0.4219
171.0	0.5583	0.5188	0.4869	0.4648	0.4510	0.4355	0.4225	0.4109	0.3998	0.3928
174.0	0.5097	0.4746	0.4432	0.4163	0.3983	0.3842	0.3749	0.3659	0.3603	0.3524
177.0	0.4411	0.4338	0.4292	0.4289	0.4307	0.4353	0.4457	0.4597	0.4744	0.4897
180.0	0.3729	0.3960	0.4179	0.4535	0.4882	0.5246	0.5709	0.6171	0.6527	0.6876
G/C	150.0	155.0	160.0	165.0	170.0	175.0	180.0	185.0	190.0	195.0
0.0	7687	7690	7691	7694	7696	7699	7732	7733	7734	7734
3.0	7693	7694	7695	7698	7699	7703	7715	7720	7724	7725
6.0	7659	7660	7660	7661	7661	7665	7700	7704	7705	7706
9.0	7642	7636	7639	7639	7631	7627	7674	7676	7682	7688
12.0	7598	7590	7580	7579	7580	7572	7623	7629	7631	7639
15.0	7504	7483	7481	7476	7479	7473	7510	7513	7525	7541
18.0	7445	7422	7404	7397	7386	7379	7439	7447	7454	7459
21.0	7347	7318	7288	7278	7270	7269	7323	7327	7331	7341
24.0	7255	7223	7203	7162	7144	7150	7217	7228	7235	7242
27.0	7130	7089	7064	7029	7013	6999	7073	7082	7090	7101
30.0	7011	6940	6892	6849	6812	6801	6892	6900	6904	6921
33.0	6827	6737	6670	6708	6712	6737	6725	6728	6705	6700
36.0	6663	6710	6562	6433	6380	6387	6454	6464	6498	6598
39.0	6426	6361	6283	6099	5964	5941	6130	6143	6211	6308
42.0	6120	5874	5776	5749	5758	5736	5790	5791	5777	5801
45.0	5693	5671	5557	5602	5672	5703	5627	5613	5576	5567
48.0	5514	5664	5620	5399	5239	5227	5368	5363	5467	5671
51.0	5442	5199	5241	4945	4814	4791	4964	4962	5065	5280
54.0	4925	4658	4771	4689	4584	4552	4654	4653	4674	4700
57.0	4596	4343	4235	4029	4007	4051	4094	4084	4064	4102
60.0	3961	3967	3847	3915	3966	3944	3975	3945	3855	3776
63.0	3702	3646	3571	3394	3252	3154	3478	3479	3576	3710
66.0	3161	3151	3152	3105	2993	2896	3094	3061	3043	3089
69.0	2808	2512	2464	2431	2448	2419	2572	2569	2586	2586
72.0	2012	1960	1784	1857	1838	1710	1840	1830	1844	1891
75.0	1584	1623	1473	1396	1409	1431	1421	1383	1379	1446
78.0	1371	1253	1143	1014	1080	1123	1233	1224	1249	1285
81.0	627.6	597.3	594.9	645.4	631.8	608.7	569.1	556.8	555.3	557.2
84.0	540.8	510.4	463.7	433.4	427.8	428.2	487.1	479.2	484.0	466.6
87.0	257.3	223.2	222.8	200.7	198.8	203.0	257.3	255.2	250.3	241.8
90.0	91.99	95.51	97.70	92.26	93.19	97.69	104.0	103.3	101.0	97.71
93.0	61.13	56.65	55.32	54.14	52.56	50.57	63.76	62.12	62.11	61.73
96.0	34.17	39.93	41.78	40.74	40.17	39.80	42.07	42.69	44.99	46.86
99.0	2.278	7.187	9.891	11.21	12.21	12.48	18.72	16.76	15.62	14.51
102.0	25.33	18.65	13.39	10.93	6.618	6.534	11.50	13.26	18.59	2.224

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:JALS
 Test Date:2023-10-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.266
 Humidity:48.6%
 Test Distance:2.493m [K=1.0000]
 Remarks: VALIDACION TECNOLOGICA
 ENSAYO LABORATORIO

Photometric Data Table [cd]

105.0	64.28	57.59	48.46	39.71	38.25	36.57	25.68	17.16	21.58	28.23
108.0	63.69	69.10	72.80	75.32	76.05	77.18	57.64	63.89	74.51	82.73
111.0	88.80	62.97	52.54	51.89	50.87	50.87	55.46	53.64	50.04	46.81
114.0	114.3	105.9	96.65	83.34	73.49	66.04	48.51	48.87	53.22	62.08
117.0	56.61	78.17	92.27	99.95	100.4	98.97	93.49	95.05	98.70	108.0
120.0	26.11	30.40	37.95	46.23	53.26	57.99	79.46	77.47	75.04	65.40
123.0	18.21	20.29	22.22	22.91	24.21	24.79	31.70	30.67	28.54	26.74
126.0	13.66	14.94	16.85	16.13	16.64	17.10	19.53	19.30	18.81	18.15
129.0	10.05	10.91	12.05	13.19	13.81	13.99	16.01	16.06	15.80	14.70
132.0	6.270	7.701	9.103	9.911	10.26	10.40	11.98	11.86	11.42	11.00
135.0	4.111	5.170	5.956	6.624	7.285	7.634	9.147	9.125	8.750	8.152
138.0	2.384	2.953	3.660	4.575	5.021	5.320	6.357	6.349	6.131	5.800
141.0	0.9753	1.687	2.188	2.585	2.842	3.006	4.089	4.073	3.649	3.336
144.0	0.6513	0.6573	0.7078	1.211	1.477	1.668	2.415	2.365	2.162	1.935
147.0	0.6405	0.6327	0.6592	0.6515	0.6403	0.6542	0.9278	0.9355	0.9399	0.9463
150.0	0.5961	0.6119	0.6159	0.6162	0.6184	0.6238	0.9118	0.9270	0.9340	0.9383
153.0	0.5579	0.5479	0.5481	0.5579	0.5693	0.5781	0.9384	0.9586	0.9679	0.9780
156.0	0.5329	0.5257	0.5173	0.5171	0.5254	0.5401	0.9294	0.9544	0.9726	0.9874
159.0	0.5122	0.5084	0.5100	0.5188	0.5330	0.5559	0.9514	0.9767	0.9954	1.010
162.0	0.5064	0.5001	0.5076	0.5255	0.5461	0.5725	0.9464	0.9677	0.9871	0.9995
165.0	0.4506	0.4333	0.4276	0.4388	0.4659	0.4996	0.9223	0.9397	0.9577	0.9710
168.0	0.4054	0.3932	0.3838	0.3863	0.3996	0.4200	0.8958	0.9056	0.9180	0.9259
171.0	0.3814	0.3686	0.3586	0.3560	0.3614	0.3746	0.9050	0.9086	0.9157	0.9112
174.0	0.3425	0.3344	0.3324	0.3351	0.3381	0.3451	0.9081	0.9092	0.9158	0.9144
177.0	0.5085	0.5298	0.5564	0.5817	0.6013	0.6171	0.8844	0.8838	0.8927	0.8952
180.0	0.7490	0.8052	0.8591	0.9205	0.9724	1.063	0.8549	0.8554	0.8640	0.8742
G/C	200.0	205.0	210.0	215.0	220.0	225.0	230.0	235.0	240.0	245.0
0.0	7733	7731	7729	7725	7722	7719	7714	7710	7707	7702
3.0	7725	7723	7719	7715	7712	7710	7707	7707	7710	7708
6.0	7712	7720	7726	7726	7726	7718	7714	7714	7712	7707
9.0	7692	7690	7693	7680	7675	7681	7678	7686	7705	7703
12.0	7645	7639	7640	7644	7655	7663	7673	7662	7669	7674
15.0	7547	7552	7576	7603	7614	7624	7632	7640	7659	7648
18.0	7470	7482	7493	7508	7527	7557	7588	7604	7626	7649
21.0	7354	7383	7407	7425	7458	7474	7501	7553	7591	7600
24.0	7265	7277	7292	7308	7357	7392	7436	7462	7521	7571
27.0	7112	7145	7170	7223	7246	7284	7347	7408	7437	7510
30.0	6952	6988	7045	7076	7129	7207	7238	7301	7379	7415
33.0	6732	6795	6867	6920	7008	7059	7146	7200	7274	7361
36.0	6701	6687	6637	6728	6826	6916	7009	7108	7175	7272
39.0	6362	6328	6520	6671	6588	6738	6847	6962	7089	7174
42.0	5848	5944	6239	6271	6536	6537	6657	6812	6937	7061
45.0	5631	5720	5719	5841	6213	6318	6480	6618	6811	6942
48.0	5718	5566	5492	5626	5641	6033	6197	6406	6601	6804
51.0	5293	5138	5574	5492	5425	5526	5874	6191	6304	6588
54.0	4694	4840	4957	5030	5552	5335	5445	5829	6246	6313
57.0	4393	4519	4607	4510	4776	5178	5268	5303	5771	5983
60.0	3870	3981	3932	4348	4453	4452	4982	5133	5120	5533
63.0	3732	3779	3640	3808	3829	4151	4060	4692	4877	5034
66.0	3204	3124	3320	3484	3451	3689	3843	3815	4350	4506
69.0	2506	2427	2690	2984	3028	3115	3168	3477	3458	3929
72.0	1951	2154	2344	2227	2259	2627	2799	2738	3017	2882
75.0	1610	1530	1498	1760	1848	1884	1949	2220	2209	2377
78.0	1362	1380	1322	1155	1124	1273	1521	1555	1465	1663
81.0	543.1	602.7	709.9	772.2	887.6	889.7	987.4	971.9	1003	996.1
84.0	460.2	445.1	472.3	484.4	482.9	511.4	471.4	597.2	604.3	588.3
87.0	236.4	236.6	234.2	222.4	222.9	239.6	296.5	279.8	277.5	314.5
90.0	95.60	96.62	98.06	98.11	101.2	106.0	99.10	99.14	118.4	118.2
93.0	62.20	60.19	59.78	63.39	62.46	55.14	54.67	44.66	48.27	63.67
96.0	45.06	46.23	49.94	35.81	23.33	17.68	3.646	17.55	45.01	62.03
99.0	18.22	8.295	24.50	14.06	2.373	16.95	32.13	55.23	42.49	75.79
102.0	10.80	11.37	26.10	25.74	49.78	84.87	71.84	54.54	106.9	46.08
105.0	37.74	51.12	80.94	87.31	66.16	54.15	80.43	143.2	72.02	22.21
108.0	75.48	62.28	52.59	48.67	60.98	119.1	142.1	78.68	29.78	14.92
111.0	45.63	47.57	59.39	101.3	146.9	111.5	64.05	30.15	19.85	9.067
114.0	81.06	103.8	130.3	119.0	81.47	40.78	27.99	20.04	11.36	4.553
117.0	114.0	94.04	76.28	52.94	32.57	25.36	19.67	12.53	6.029	2.150
120.0	54.20	38.87	30.78	26.37	21.49	17.63	13.14	7.822	3.434	0.8868
123.0	24.93	23.08	20.57	19.06	16.51	12.60	8.422	4.633	1.760	0.7362
126.0	17.48	17.59	16.13	13.75	11.76	7.906	5.044	2.570	0.7651	0.6515
129.0	14.33	13.06	11.58	10.16	7.163	4.996	2.824	1.182	0.6779	0.6319
132.0	10.69	9.736	7.896	6.272	4.619	2.922	1.472	0.7304	0.6791	0.6445
135.0	7.287	6.471	5.294	4.018	2.796	1.578	0.7762	0.7103	0.6735	0.6436
138.0	5.076	4.173	3.204	2.366	1.476	0.8173	0.7729	0.7243	0.7058	0.6596

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.4DEG
 Operators:JALS
 Test Date:2023-10-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.266
 Humidity:48.6%
 Test Distance:2.493m [K=1.0000]
 Remarks: VALIDACION TECNOLOGICA
 ENSAYO LABORATORIO

Photometric Data Table [cd]

141.0	3.048	2.490	1.830	0.9748	0.8609	0.8225	0.7809	0.7642	0.7280	0.6713
144.0	1.656	1.006	0.9242	0.8880	0.8469	0.8412	0.8199	0.7868	0.7433	0.6941
147.0	0.9280	0.9239	0.8984	0.8965	0.8957	0.8693	0.8450	0.8106	0.7615	0.7147
150.0	0.9439	0.9629	0.9568	0.9496	0.9390	0.9168	0.8814	0.8350	0.7898	0.7412
153.0	0.9783	0.9800	0.9946	0.9855	0.9735	0.9368	0.8979	0.8540	0.8029	0.7481
156.0	0.9974	1.008	1.016	1.002	0.9795	0.9496	0.9130	0.8684	0.8179	0.7516
159.0	1.014	1.016	1.014	1.004	0.9881	0.9547	0.9260	0.8740	0.8147	0.7599
162.0	1.008	1.007	1.004	0.9965	0.9889	0.9670	0.9268	0.8665	0.8155	0.7783
165.0	0.9797	0.9841	0.9867	0.9778	0.9710	0.9424	0.9148	0.8796	0.8441	0.8095
168.0	0.9298	0.9320	0.9349	0.9400	0.9388	0.9346	0.9179	0.8969	0.8630	0.8239
171.0	0.9077	0.9057	0.9062	0.9117	0.9129	0.9125	0.9045	0.8877	0.8569	0.8200
174.0	0.9028	0.8917	0.8877	0.8895	0.8891	0.8840	0.8723	0.8558	0.8228	0.7845
177.0	0.8868	0.8780	0.8688	0.8630	0.8564	0.8457	0.8298	0.8101	0.7758	0.7369
180.0	0.8805	0.8740	0.8691	0.8692	0.8672	0.8578	0.8427	0.8164	0.7743	0.7277
G/C	250.0	255.0	260.0	265.0	270.0	275.0	280.0	285.0	290.0	295.0
0.0	7698	7694	7690	7687	7684	7681	7679	7676	7676	7676
3.0	7706	7701	7693	7688	7687	7683	7683	7683	7683	7683
6.0	7696	7692	7693	7687	7683	7683	7686	7686	7680	7682
9.0	7706	7695	7685	7692	7687	7681	7681	7673	7688	7688
12.0	7703	7695	7684	7682	7677	7682	7673	7682	7678	7659
15.0	7663	7693	7682	7670	7676	7662	7662	7674	7644	7626
18.0	7639	7657	7675	7654	7659	7663	7663	7647	7624	7619
21.0	7635	7629	7671	7650	7652	7659	7659	7623	7600	7594
24.0	7600	7607	7642	7644	7639	7632	7634	7596	7580	7540
27.0	7551	7591	7589	7615	7599	7599	7599	7557	7546	7500
30.0	7507	7545	7548	7591	7574	7563	7547	7529	7491	7444
33.0	7409	7475	7504	7545	7541	7521	7501	7479	7428	7382
36.0	7327	7441	7491	7520	7503	7507	7462	7430	7381	7299
39.0	7276	7379	7448	7488	7474	7482	7424	7371	7305	7191
42.0	7184	7280	7384	7426	7433	7442	7391	7317	7222	7092
45.0	7067	7214	7328	7360	7374	7400	7333	7230	7094	6954
48.0	6941	7095	7233	7303	7289	7324	7242	7143	6997	6812
51.0	6795	6948	7096	7207	7181	7210	7120	6989	6791	6598
54.0	6585	6727	6899	7025	7014	6920	6758	6592	6323	6072
57.0	6266	6439	6587	6693	6683	6692	6591	6425	6238	5973
60.0	5795	6061	6196	6319	6280	6274	6195	6021	5815	5367
63.0	5321	5626	5721	5879	5824	5772	5730	5555	5342	4893
66.0	4728	4907	5119	5188	5173	5170	5058	4896	4596	4502
69.0	3846	4056	4319	4421	4425	4383	4245	4059	3921	3876
72.0	3203	3225	3459	3485	3530	3502	3416	3187	3247	2959
75.0	2346	2448	2496	2633	2669	2634	2553	2409	2300	2298
78.0	1632	1691	1725	1839	1857	1837	1713	1688	1564	1594
81.0	1020	1022	1109	1169	1192	1188	1078	1007	1036	990.2
84.0	597.1	636.9	645.2	699.5	724.4	708.7	660.1	632.0	630.0	581.6
87.0	291.4	283.9	310.5	326.8	338.5	329.8	313.3	299.9	304.5	309.1
90.0	144.3	160.9	176.2	187.1	164.9	179.7	165.4	151.4	129.4	121.6
93.0	117.6	143.7	185.7	226.7	245.0	237.9	184.8	164.5	128.7	78.50
96.0	90.79	114.9	142.9	175.6	191.1	178.1	150.3	120.0	97.17	56.06
99.0	55.69	59.48	70.51	89.80	95.55	92.66	74.09	60.50	55.26	78.67
102.0	19.11	18.39	23.93	27.63	31.08	30.06	25.25	17.00	17.83	38.62
105.0	8.554	1.790	1.599	6.062	6.431	6.508	1.811	0.7721	6.537	18.57
108.0	4.868	0.6955	0.6365	0.5218	0.4213	0.5441	0.5993	0.6280	3.003	12.85
111.0	2.373	0.6988	0.6120	0.5031	0.3865	0.5250	0.5688	0.6302	0.9857	7.108
114.0	0.7787	0.6626	0.5367	0.4877	0.3879	0.4955	0.5354	0.5900	0.6369	2.934
117.0	0.7073	0.6069	0.5414	0.4802	0.3623	0.4725	0.5164	0.4905	0.6381	1.040
120.0	0.6927	0.5706	0.5308	0.4645	0.3866	0.4824	0.5125	0.5565	0.5342	0.6715
123.0	0.5887	0.5690	0.5180	0.4553	0.3781	0.4694	0.5102	0.5283	0.5287	0.6061
126.0	0.6170	0.5498	0.5070	0.4062	0.3739	0.4506	0.5015	0.5162	0.5851	0.5421
129.0	0.6032	0.5464	0.5090	0.4202	0.3798	0.4808	0.5282	0.5383	0.5731	0.5973
132.0	0.5955	0.5441	0.5051	0.4349	0.4030	0.4931	0.5344	0.5508	0.5560	0.6137
135.0	0.5939	0.5543	0.4921	0.4541	0.4264	0.5075	0.5344	0.5617	0.5620	0.6065
138.0	0.6041	0.5561	0.4884	0.4569	0.4491	0.5068	0.5240	0.5545	0.5629	0.5901
141.0	0.6258	0.5819	0.4949	0.4731	0.4710	0.5152	0.5320	0.5651	0.5796	0.5914
144.0	0.6446	0.5881	0.5286	0.4945	0.4937	0.5330	0.5573	0.5728	0.5957	0.6070
147.0	0.6743	0.5938	0.5603	0.5135	0.5158	0.5394	0.5741	0.5831	0.6057	0.6200
150.0	0.6816	0.6072	0.5831	0.5307	0.5382	0.5533	0.5862	0.5930	0.6082	0.6294
153.0	0.6808	0.6346	0.6021	0.5525	0.5584	0.5663	0.5897	0.6060	0.6149	0.6323
156.0	0.6967	0.6666	0.6199	0.5793	0.5804	0.5828	0.5934	0.6124	0.6187	0.6329
159.0	0.7276	0.6869	0.6394	0.6071	0.6019	0.5988	0.5915	0.6118	0.6238	0.6274
162.0	0.7455	0.7022	0.6560	0.6334	0.6254	0.6172	0.6005	0.6114	0.6305	0.6414
165.0	0.7662	0.7234	0.6786	0.6600	0.6487	0.6392	0.6190	0.6149	0.6291	0.6451
168.0	0.7828	0.7403	0.7069	0.6861	0.6718	0.6571	0.6398	0.6261	0.6294	0.6455
171.0	0.7817	0.7475	0.7204	0.6992	0.6836	0.6664	0.6521	0.6394	0.6346	0.6424
174.0	0.7517	0.7220	0.6971	0.6746	0.6565	0.6383	0.6286	0.6183	0.6131	0.6178

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.4DEG
 Operators: JALS
 Test Date: 2023-10-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.266
 Humidity: 48.6%
 Test Distance: 2.493m [K=1.0000]
 Remarks: VALIDACION TECNOLOGICA
 ENSAYO LABORATORIO

Photometric Data Table [cd]

177.0	0.7017	0.6702	0.6414	0.6155	0.5928	0.5726	0.5601	0.5522	0.5508	0.5553
180.0	0.6832	0.6416	0.6044	0.5723	0.5447	0.5195	0.4994	0.4835	0.4754	0.4765
G/C	300.0	305.0	310.0	315.0	320.0	325.0	330.0	335.0	340.0	345.0
0.0	7676	7679	7680	7682	7684	7686	7687	7690	7691	7694
3.0	7683	7684	7681	7682	7685	7687	7690	7694	7700	7706
6.0	7691	7693	7691	7691	7683	7684	7676	7671	7672	7673
9.0	7676	7662	7658	7648	7644	7647	7648	7645	7646	7644
12.0	7648	7637	7640	7635	7635	7617	7607	7601	7588	7590
15.0	7625	7623	7610	7592	7577	7571	7560	7556	7544	7532
18.0	7607	7576	7555	7547	7535	7511	7498	7478	7452	7444
21.0	7559	7540	7522	7490	7458	7424	7394	7373	7339	7328
24.0	7512	7489	7448	7401	7359	7309	7274	7270	7233	7225
27.0	7466	7418	7357	7300	7239	7205	7164	7134	7104	7092
30.0	7392	7316	7247	7186	7126	7078	7039	6968	6921	6887
33.0	7299	7221	7143	7060	7005	6908	6821	6810	6778	6848
36.0	7204	7107	7011	6926	6804	6767	6778	6628	6320	6341
39.0	7071	6973	6856	6714	6674	6549	6241	6476	6132	5959
42.0	6966	6835	6649	6677	6183	6391	5923	5955	6054	5932
45.0	6822	6618	6638	6110	6024	5861	5907	5802	5847	5882
48.0	6623	6522	6070	5783	5880	5721	5786	5759	5553	5367
51.0	6378	5939	5706	5769	5727	5651	5355	5376	5079	4807
54.0	6014	5643	5647	5560	5528	5207	4682	4669	4708	4726
57.0	5639	5505	5416	5057	4686	4635	4421	4360	4060	4333
60.0	5159	5232	4780	4331	4286	4182	4179	3921	4051	4201
63.0	4987	4687	4129	4041	4009	3744	3937	4029	3517	3503
66.0	4282	3846	3807	3708	3571	3462	3252	3052	2994	3035
69.0	3425	3523	3294	3110	3039	2939	2756	2693	2770	2893
72.0	3032	2667	2747	2686	2405	2422	2266	2035	1763	1704
75.0	2143	2320	2007	1943	1737	1625	1701	1590	1483	1284
78.0	1502	1555	1457	1282	1177	1370	1599	1533	1311	1218
81.0	1094	960.1	1069	905.5	774.1	686.8	637.3	593.6	596.0	599.9
84.0	639.7	540.5	534.3	580.6	602.6	603.5	504.9	521.8	535.7	548.0
87.0	320.9	321.6	342.8	300.3	276.2	278.0	265.0	250.0	249.5	262.5
90.0	105.6	113.2	97.92	100.5	97.13	94.45	95.94	96.84	97.96	98.02
93.0	56.83	51.69	65.24	71.39	77.62	68.28	64.01	62.65	60.60	57.93
96.0	41.54	15.42	18.03	14.24	25.79	38.22	39.45	43.31	51.91	44.08
99.0	41.21	57.41	27.88	19.27	20.61	13.96	2.961	6.652	13.14	16.88
102.0	100.1	66.00	74.00	78.65	47.86	29.85	31.61	23.60	21.91	19.48
105.0	57.41	125.1	103.8	68.23	75.53	91.34	70.09	52.97	34.21	26.66
108.0	26.59	70.78	123.7	124.4	77.63	53.74	52.33	67.40	79.13	83.41
111.0	17.88	27.03	57.82	101.2	129.6	106.5	71.85	49.02	43.56	40.01
114.0	9.559	18.23	24.33	38.99	75.59	107.8	119.7	104.2	83.18	68.09
117.0	4.897	10.94	18.54	22.83	28.91	49.80	72.12	90.44	104.5	104.2
120.0	2.286	6.419	11.16	17.03	21.22	22.77	28.47	37.95	53.63	64.34
123.0	0.7239	3.207	6.753	10.50	15.19	18.55	19.59	20.74	23.53	26.96
126.0	0.6696	1.420	3.534	6.709	9.649	12.33	15.62	17.22	18.33	17.84
129.0	0.5928	0.7167	1.680	3.545	6.193	8.240	9.847	11.64	13.68	14.84
132.0	0.6199	0.6237	0.7387	1.765	3.323	5.195	6.662	7.969	8.866	9.646
135.0	0.6383	0.6357	0.6612	0.7376	1.676	2.861	3.859	5.219	6.114	6.840
138.0	0.6384	0.6513	0.6542	0.6809	0.7370	1.306	2.059	3.001	3.591	4.332
141.0	0.6312	0.6650	0.6716	0.6616	0.6645	0.7028	0.7527	1.401	1.878	2.291
144.0	0.6257	0.6634	0.6853	0.6951	0.6691	0.6744	0.6824	0.7116	0.7379	0.7865
147.0	0.6330	0.6526	0.6856	0.7032	0.7035	0.6984	0.6885	0.6968	0.7051	0.7199
150.0	0.6368	0.6508	0.6719	0.7005	0.7156	0.7193	0.7198	0.7287	0.7339	0.7496
153.0	0.6483	0.6551	0.6679	0.6823	0.7024	0.7231	0.7343	0.7487	0.7584	0.7833
156.0	0.6489	0.6619	0.6685	0.6795	0.6932	0.7098	0.7312	0.7546	0.7771	0.8073
159.0	0.6352	0.6521	0.6708	0.6805	0.6908	0.7067	0.7244	0.7429	0.7671	0.8031
162.0	0.6446	0.6519	0.6643	0.6817	0.6980	0.7123	0.7264	0.7425	0.7668	0.8046
165.0	0.6564	0.6595	0.6670	0.6749	0.6851	0.7042	0.7225	0.7424	0.7632	0.8002
168.0	0.6583	0.6685	0.6775	0.6819	0.6910	0.7020	0.7157	0.7308	0.7487	0.7795
171.0	0.6549	0.6669	0.6787	0.6907	0.7030	0.7156	0.7286	0.7404	0.7584	0.7874
174.0	0.6277	0.6426	0.6552	0.6695	0.6842	0.7008	0.7180	0.7323	0.7513	0.7792
177.0	0.5646	0.5791	0.5979	0.6158	0.6304	0.6471	0.6640	0.6837	0.7070	0.7373
180.0	0.4853	0.5011	0.5231	0.5453	0.5670	0.5897	0.6082	0.6295	0.6549	0.6901
G/C	350.0	355.0								
0.0	7696	7699								
3.0	7709	7714								
6.0	7672	7667								
9.0	7643	7646								
12.0	7592	7588								
15.0	7532	7530								
18.0	7440	7434								
21.0	7320	7308								

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.4DEG
Operators:JALS
Test Date:2023-10-19

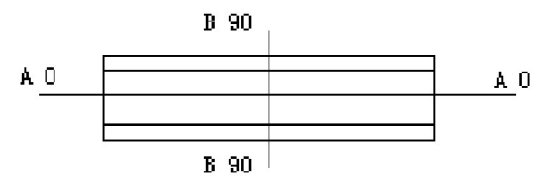
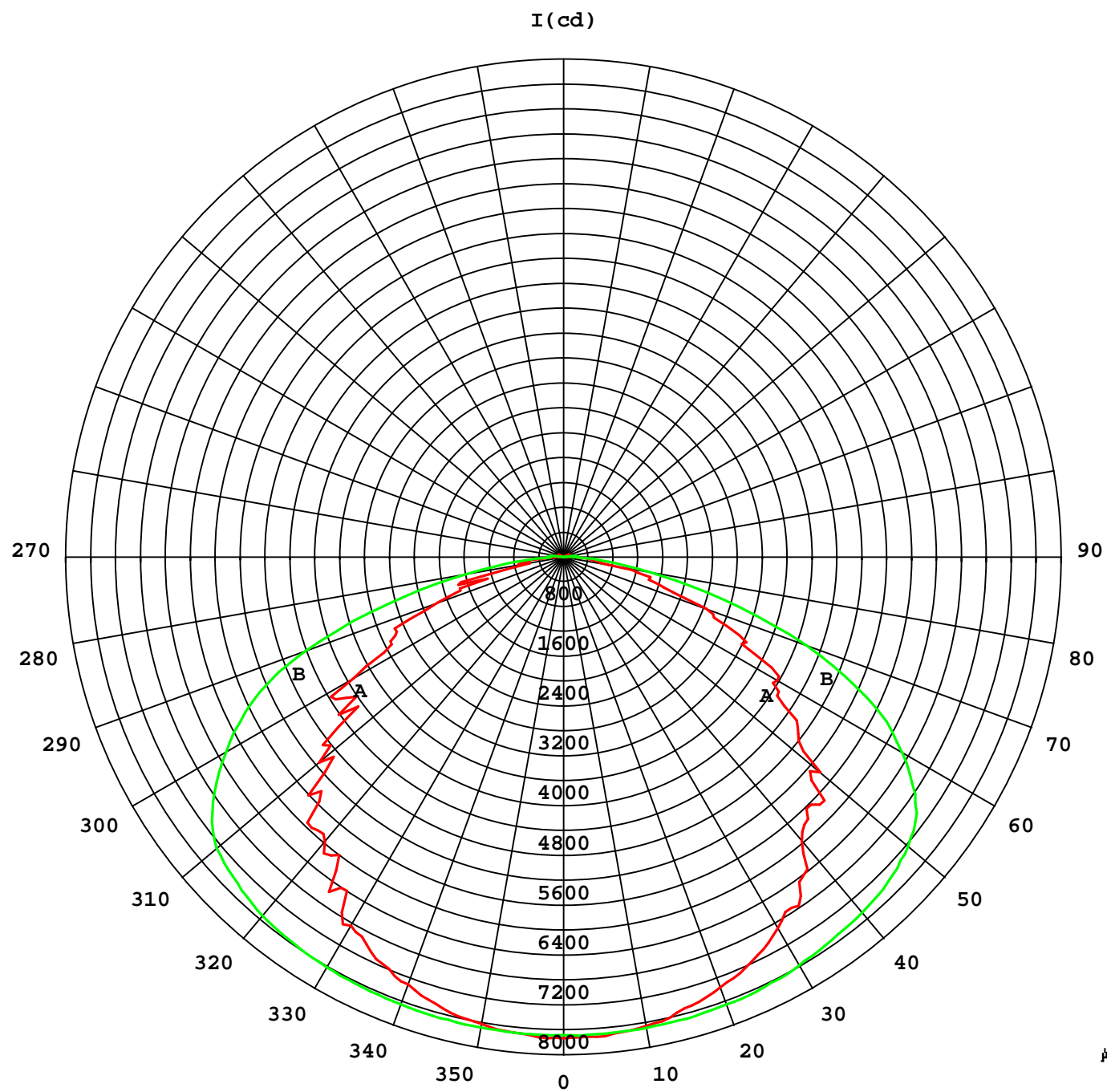
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.266
Humidity:48.6%
Test Distance:2.493m [K=1.0000]
Remarks: VALIDACION TECNOLOGICA
ENSAYO LABORATORIO

Photometric Data Table [cd]

24.0	7204	7179
27.0	7072	7050
30.0	6853	6862
33.0	6826	6770
36.0	6523	6562
39.0	5983	6029
42.0	5893	5877
45.0	5893	5926
48.0	5452	5564
51.0	4977	5099
54.0	4399	4306
57.0	4249	4106
60.0	4260	4332
63.0	3479	3374
66.0	2965	2987
69.0	2832	2740
72.0	1742	1738
75.0	1243	1255
78.0	1213	1206
81.0	630.4	653.1
84.0	554.4	554.2
87.0	266.6	274.7
90.0	96.12	95.82
93.0	56.60	55.93
96.0	43.01	43.07
99.0	20.73	20.34
102.0	10.97	2.919
105.0	23.17	23.76
108.0	76.91	70.68
111.0	40.94	45.52
114.0	57.55	53.11
117.0	99.23	94.16
120.0	72.58	75.80
123.0	30.42	32.98
126.0	18.39	18.75
129.0	15.47	15.53
132.0	10.33	10.89
135.0	7.419	7.758
138.0	4.765	5.160
141.0	2.731	3.000
144.0	1.081	1.381
147.0	0.7500	0.7854
150.0	0.7821	0.8178
153.0	0.8116	0.8560
156.0	0.8378	0.8791
159.0	0.8435	0.8895
162.0	0.8516	0.8982
165.0	0.8466	0.8894
168.0	0.8222	0.8678
171.0	0.8253	0.8705
174.0	0.8180	0.8647
177.0	0.7804	0.8312
180.0	0.7380	0.7779

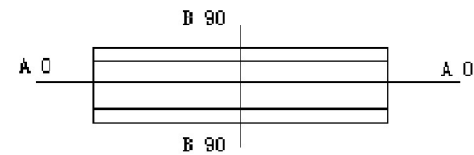
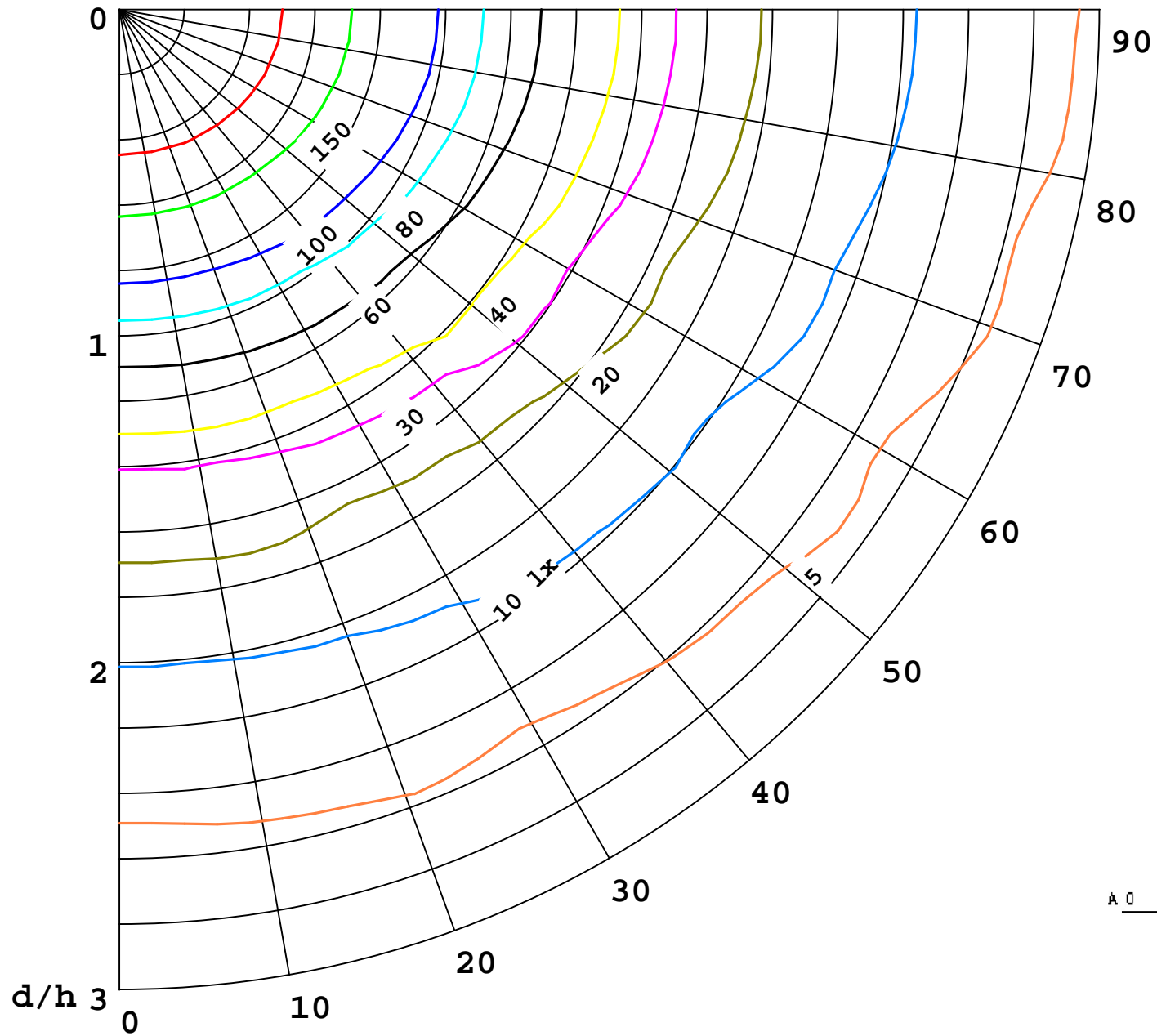
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.4DEG
 Operators: JALS
 Test Date: 2023-10-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.266
 Humidity: 48.6%
 Test Distance: 2.493m [K=1.0000]
 Remarks: VALIDACION TECNOLÓGICA
 ENSAYO LABORATORIO





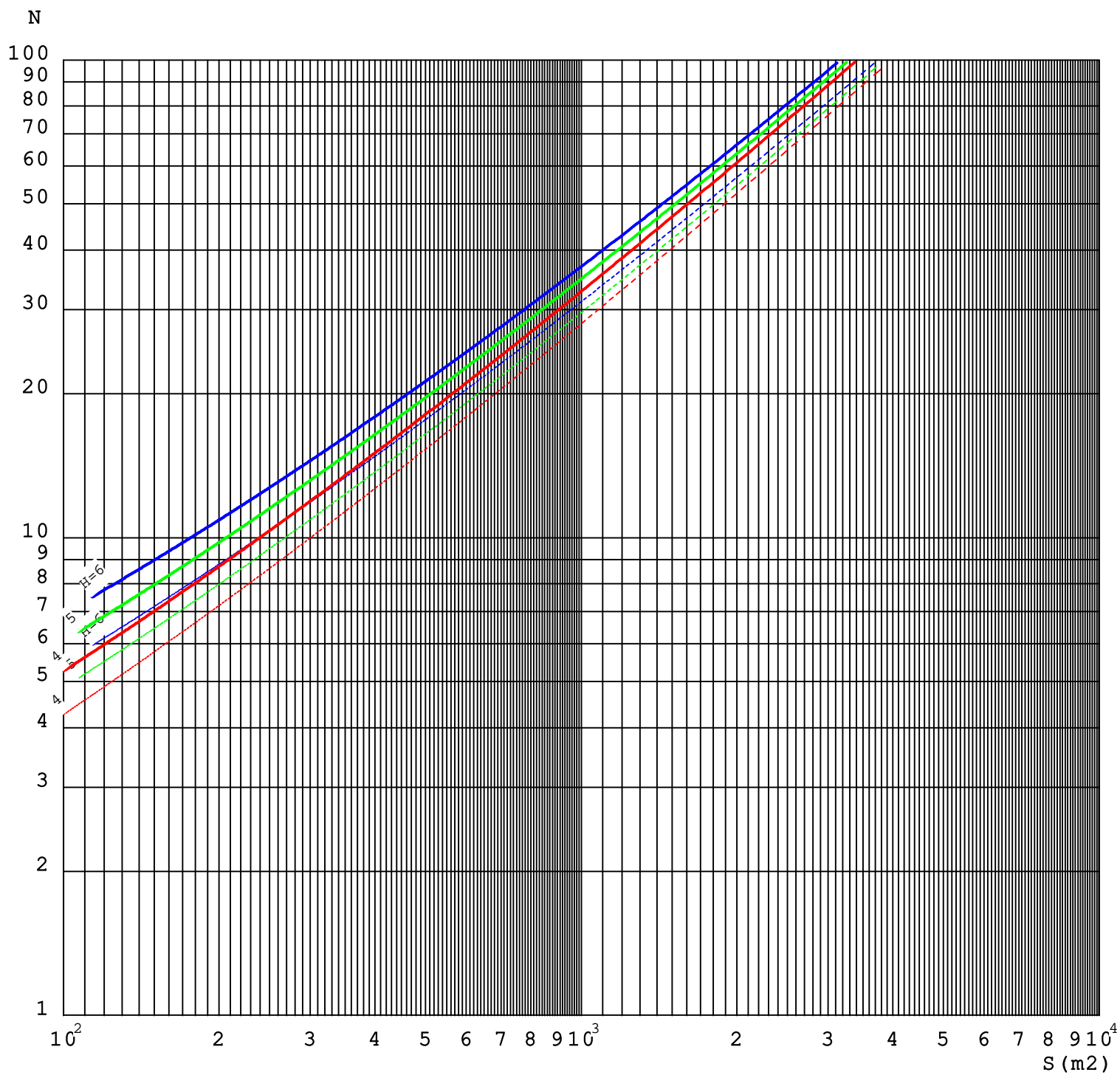
1000 lm

$K = 1$



F = 5000 lm
 K = 0.7
 Hcc = 0.0 m
 Hfc = 0.0 m
 Eave = 100 lx

	Pcc	Pw	Pfc
	70	50	30
	50	30	20





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