ANEXO 26-0234-3-A KAYRA II 24 LED 70W

Driver XITANIUM 100W 1.1A 0-10V

MOD FF 2X6 /740 5050 DA_UHE

Lentes: RA10MIII

Corriente de programación: 885mA



Light Output Ratio:	100.0%		
Luminaire Power:	69.7 W		
I80 =	51.0 cd per klm.	I88 =	1.2 cd per klm.
I90 =	1.2 cd per klm.	I80/I88 =	43.867

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Kevin Delgado
Test Date:2026-05-14

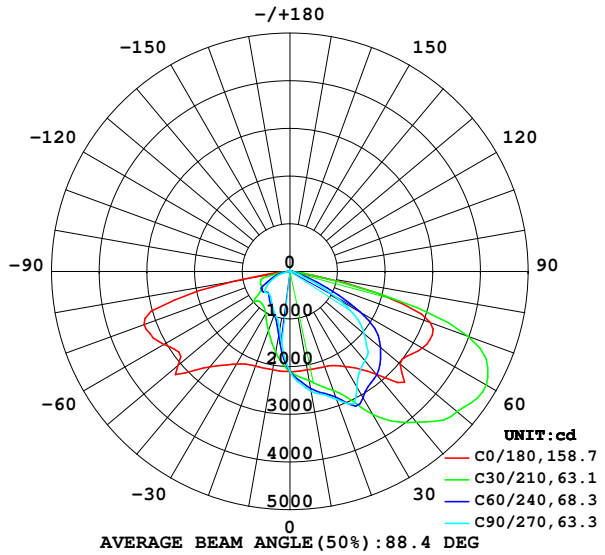
γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:52.9-MIN:43.9%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-3-A KAYRA II 24 LED
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:220.17V I:0.3211A P:69.697W PF:0.9859 Freq:60.01Hz Lamp Flux:9837.46x1 lm		
NAME: ANEXO 26-0235-3-A KAYRA II 24 LED 70W	TYPE:ALUMBRADO PUBLICO	WEIGHT:----
SPEC.:24 LED 70W	DIM.: ----	SERIAL No.:26-0235-3
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----

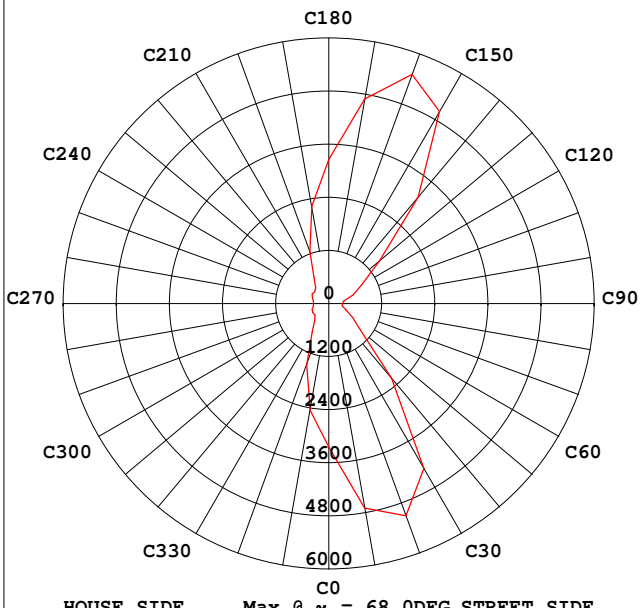
DATA OF LAMP		PHOTOMETRIC DATA Eff: 141.15 lm/W			
MODEL	2X6/740 5050	Imax(cd)	5510	η street_up(%)	0.3
NOMINAL POWER(W)	70	LOR(%)	100.0	η street_down(%)	72.0
RATED VOLTAGE(V)	---	TOTAL FLUX(lm)	9837	η house_up(%)	0.6
NOMINAL FLUX(lm)	9837.46	MAXIMUM @(C,γ)	160,68.0	η house_down(%)	27.2
LAMPS INSIDE	1	η up(%)	0.8	76 FLASHAREA(m2)	
TEST VOLTAGE(V)	220	η down(%)	99.2	SLI	

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



AVERAGE BEAM ANGLE(50%):88.4 DEG

MAX INTENSITY CONE SURFACE DISTRIBUTION DIAGRAM



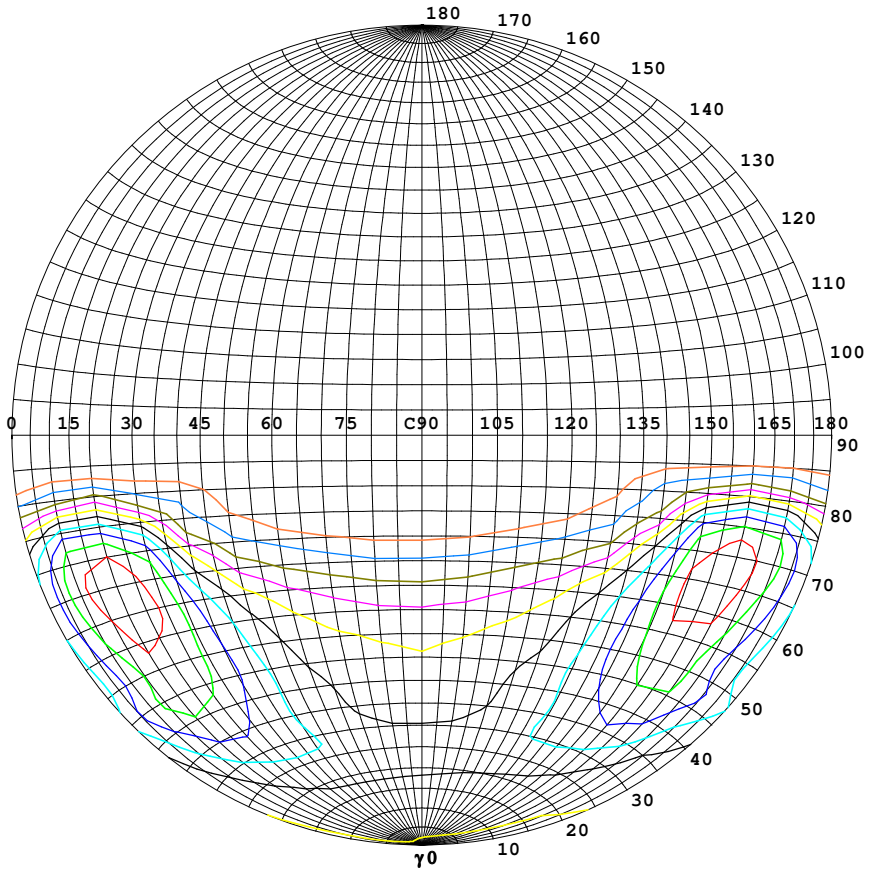
HOUSE SIDE Max @ γ = 68.0DEG STREET SIDE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Kevin Delgado
Test Date:2026-05-14

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:52.9-MIN:43.9%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-3-A KAYRA II 24 LED
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:220.17V I:0.3211A P:69.697W PF:0.9859 Freq:60.01Hz Lamp Flux:9837.46x1 lm		
NAME: ANEXO 26-0235-3-A KAYRA II 24 LED 70W	TYPE:ALUMBRADO PUBLICO	WEIGHT:----
SPEC.:24 LED 70W	DIM.: ----	SERIAL No.:26-0235-3
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----



Classification:

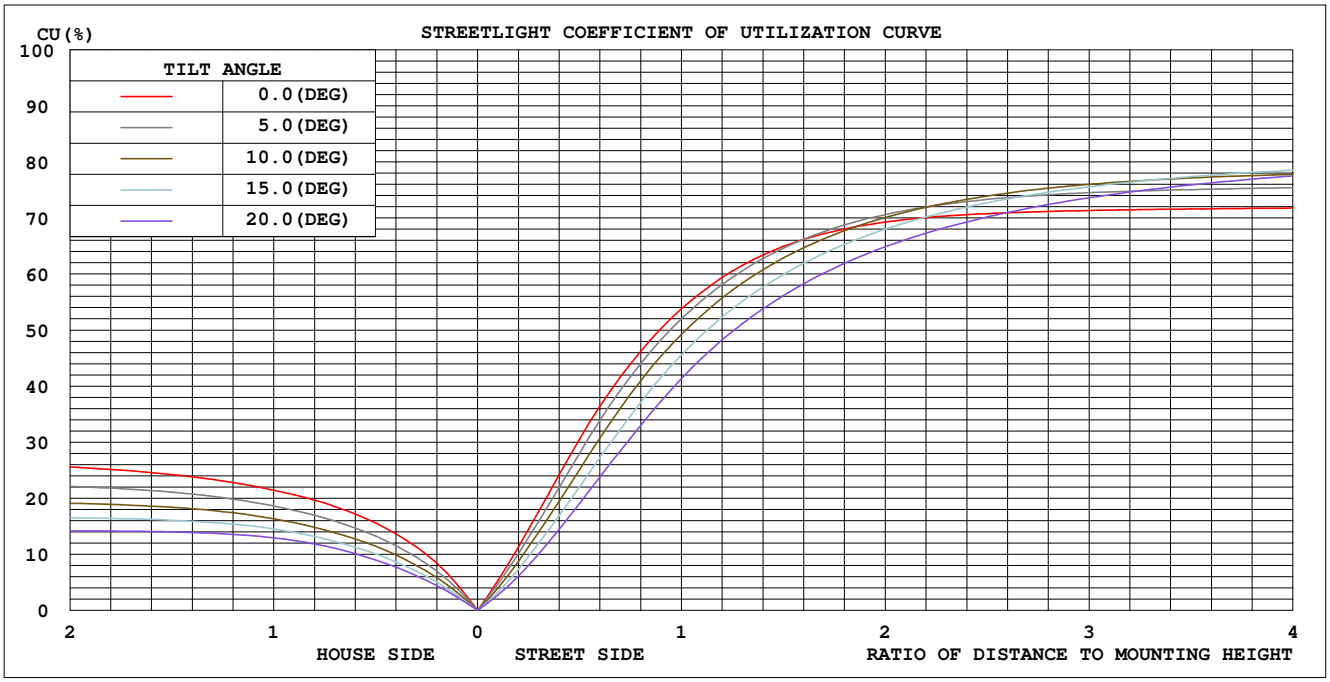
IES:Type III - Medium
CIE:Average - Intermediate
IES:None cut-off
CIE:Non-cut-off
Max.At80:237.8cd/klm
Max.At90:1.322cd/klm
Max.80-90:237.8cd/klm
NRB 5101:Semi limited[12.1%]

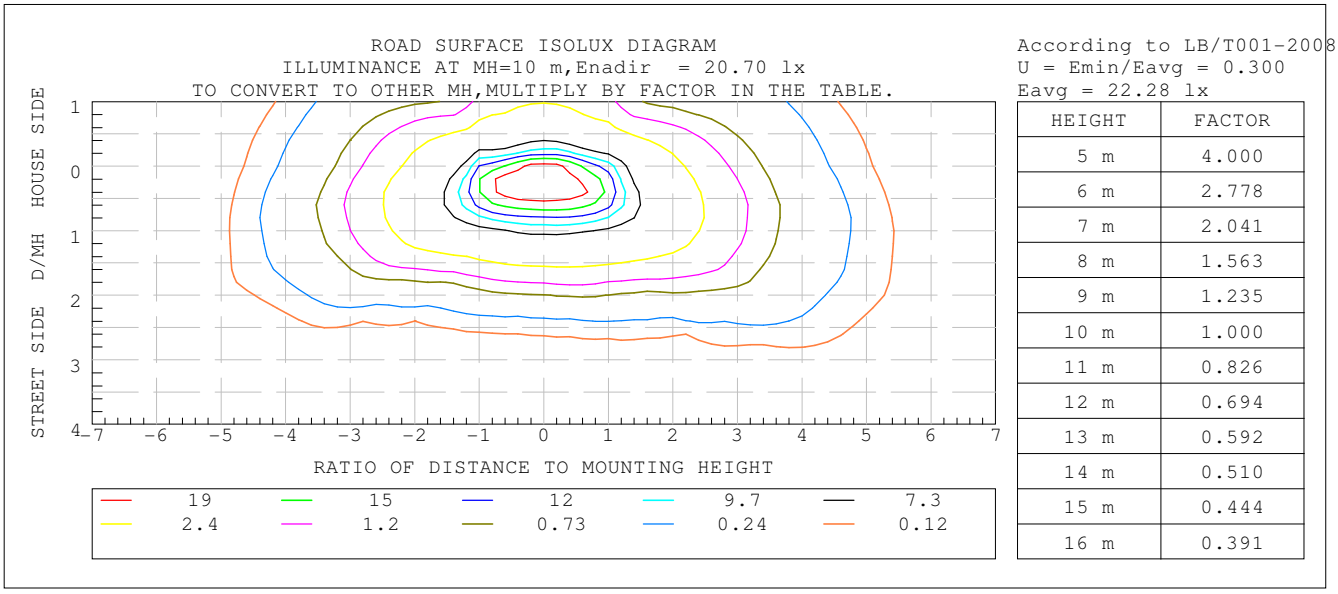
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	5510
90%	4959
80%	4408
70%	3857
60%	3306
50%	2755
40%	2204
30%	1653
20%	1102
10%	551
5%	275

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Kevin Delgado
Test Date:2026-05-14

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:52.9-MIN:43.9%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-3-A KAYRA II 24 LED
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM





According to LB/T001-2008:
U = Emin/Eavg = 0.300
Eavg = 22.28 lx

HEIGHT	FACTOR
5 m	4.000
6 m	2.778
7 m	2.041
8 m	1.563
9 m	1.235
10 m	1.000
11 m	0.826
12 m	0.694
13 m	0.592
14 m	0.510
15 m	0.444
16 m	0.391

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Kevin Delgado
Test Date:2026-05-14

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:52.9-MIN:43.9%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-3-A KAYRA II 24 LED
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

ZONAL FLUX DIAGRAM

Test:U:220.17V I:0.3211A P:69.697W PF:0.9859 Freq:60.01Hz Lamp Flux:9837.46x1 lm		
NAME: ANEXO 26-0235-3-A KAYRA II 24 LED 70W	TYPE:ALUMBRADO PUBLICO	WEIGHT:----
SPEC.:24 LED 70W	DIM.: ----	SERIAL No.:26-0235-3
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----

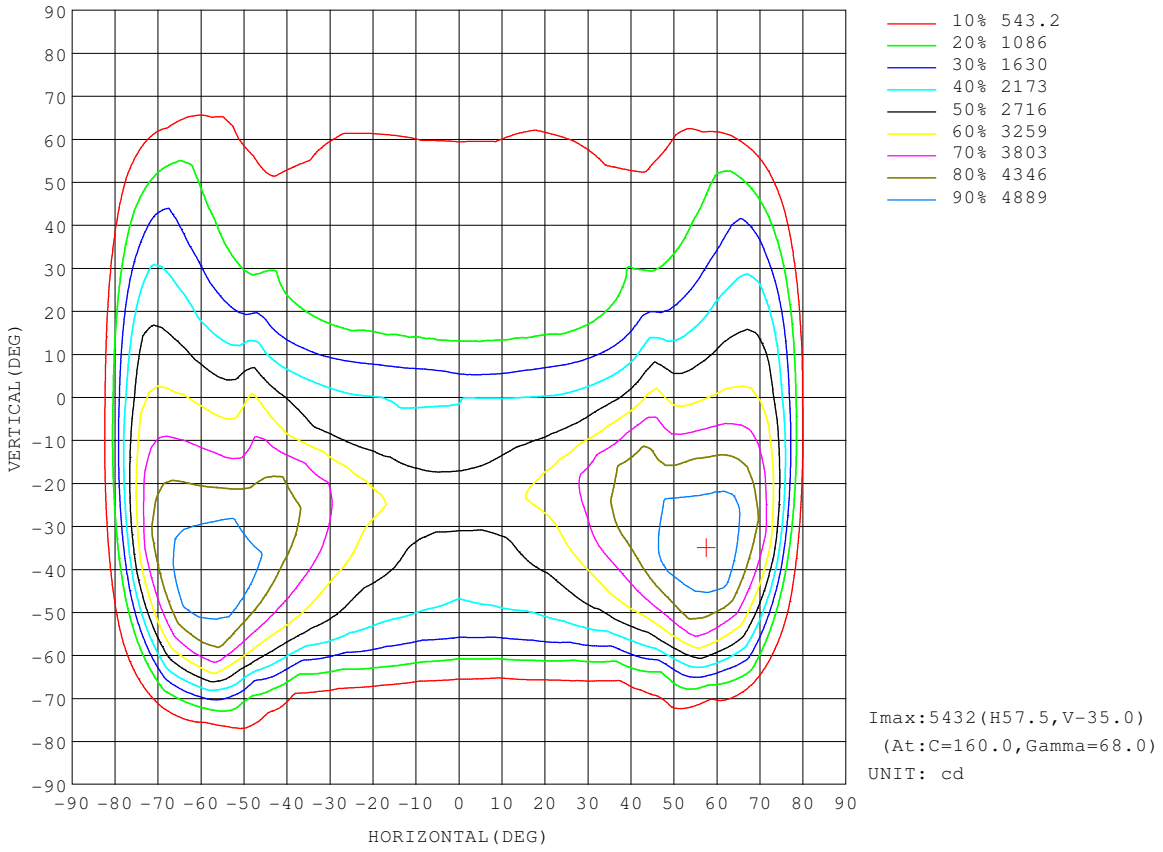
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2098	2422	2550	2427	2094	1531	1252	1501	0- 10	193.9	193.9	1.97,1.97
20	2129	2761	2853	2749	2119	1066	944.0	1081	10- 20	554.7	748.6	7.61,7.61
30	2303	3376	2806	3418	2244	877.0	776.7	898.8	20- 30	940.6	1689	17.2,17.2
40	2812	3447	2448	3629	2615	769.2	657.5	809.3	30- 40	1330	3019	30.7,30.7
50	3016	3401	2040	3721	3073	724.3	688.4	860.4	40- 50	1738	4757	48.4,48.4
60	3212	2868	1194	3377	3061	577.0	535.0	586.7	50- 60	1923	6680	67.9,67.9
70	3132	1172	251.9	1922	3259	405.0	316.2	407.0	60- 70	1811	8490	86.3,86.3
80	502.1	279.1	60.61	445.0	1184	184.7	65.10	135.4	70- 80	1137	9628	97.9,97.9
90	11.53	2.622	1.289	3.014	9.790	6.198	1.276	7.054	80- 90	127.1	9755	99.2,99.2
100	16.42	3.744	2.504	3.665	14.44	11.58	4.024	13.12	90-100	7.527	9762	99.2,99.2
110	19.91	5.088	3.649	5.111	18.50	16.48	8.328	17.63	100-110	11.01	9773	99.3,99.3
120	21.62	6.502	4.803	6.586	20.68	20.03	12.91	22.32	110-120	13.08	9786	99.5,99.5
130	21.26	7.712	5.705	7.487	21.71	20.78	17.70	25.32	120-130	13.61	9800	99.6,99.6
140	19.52	9.087	6.614	8.759	21.58	20.61	20.69	25.81	130-140	12.43	9812	99.7,99.7
150	18.44	11.01	8.387	10.27	20.43	20.89	22.02	24.88	140-150	10.39	9823	99.9,99.9
160	18.36	13.23	11.21	12.42	19.99	20.77	21.83	22.91	150-160	7.911	9831	99.9,99.9
170	18.61	15.95	14.86	15.06	19.61	20.18	20.62	20.81	160-170	5.016	9836	100,100
180	19.58	18.70	18.56	18.54	19.59	18.70	18.56	18.54	170-180	1.750	9837	100,100
DEG	LUMINOUS INTENSITY:cd Less than 35% Percent = 12.9 %									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Kevin Delgado
Test Date:2026-05-14

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:52.9-MIN:43.9%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-3-A KAYRA II 24 LED
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

ISOCANDELA DIAGRAM

Test:U:220.17V I:0.3211A P:69.697W PF:0.9859 Freq:60.01Hz Lamp Flux:9837.46x1 lm		
NAME: ANEXO 26-0235-3-A KAYRA II 24 LED 70W	TYPE:ALUMBRADO PUBLICO	WEIGHT:----
SPEC.:24 LED 70W	DIM.: ----	SERIAL No.:26-0235-3
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----



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C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Kevin Delgado
Test Date:2026-05-14

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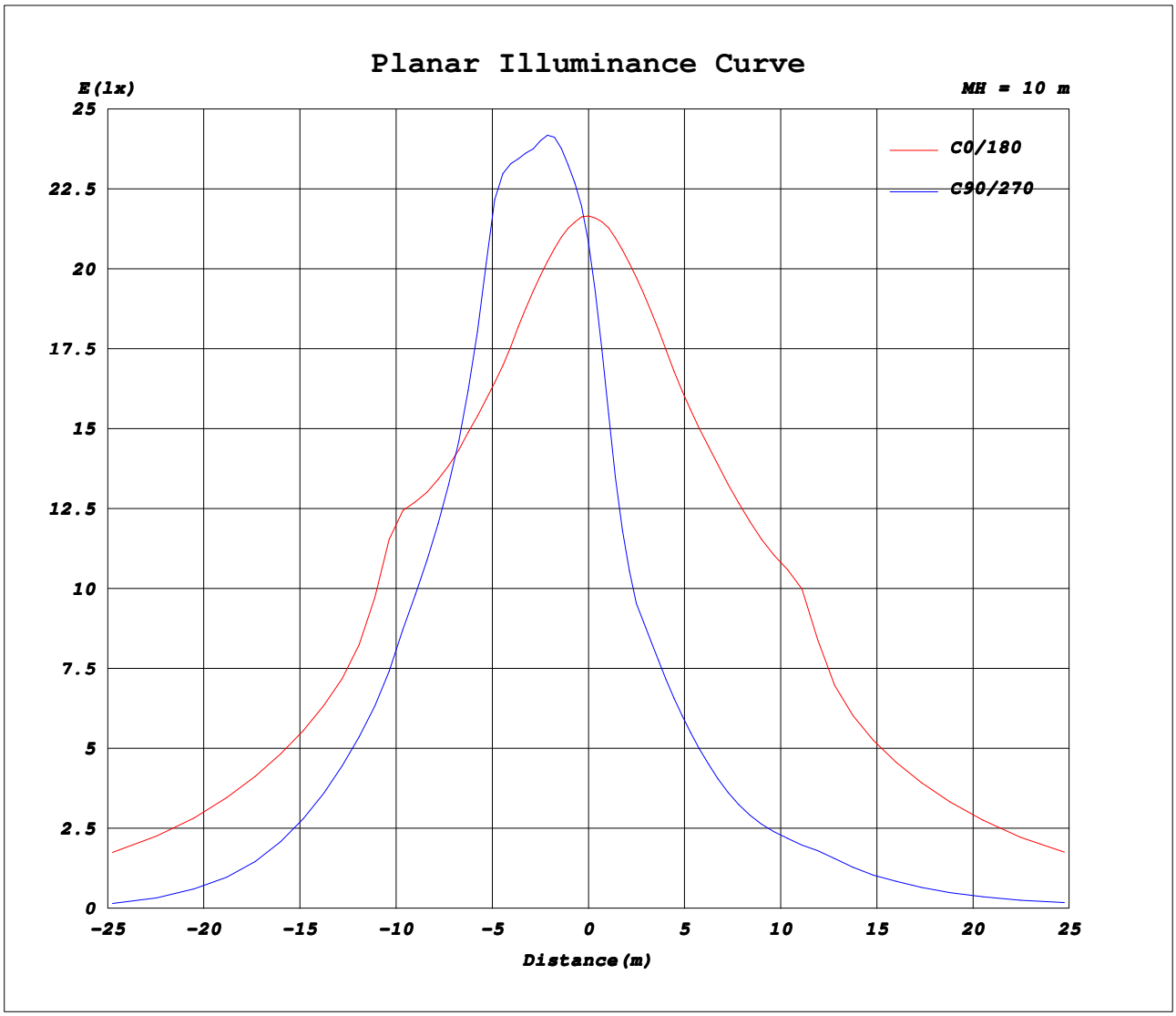
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

Planar Illuminance Curve



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Lentes: RA10MIII

Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6 /740 5050 DA_UHE
Lentes: RA10MIII
Corriente de programación: 885mA

Test Distance:	**7.080 metres**
Test Tempertature:	**25±1°C degrees Celsius**
Significance:	**ENSAYO FOTOMETRICO A LUMINARIAS** **ROY ALPHA S.A** **CALLE 15 No 32-598** **Acopi Yumbo**
Special Notes:	**EQUIPOS UTILIZADOS** **Fotogoniómetro EQEN-023** **Fuente de tensión INCO-011** **Luxometro INME-039** **Flexometro INME-041** **Analizador de potencia INME-013** **Controlador de Temperatura INME-046** **Datalogger INME-021-1** **El presente reporte de pruebas no se debe reproducir en forma parcial, sin la aprobación del Laboratorio de ensayos de Roy Alpha.**

Realizó/revisó	**Realizó:**	**Revisó:**
	Kevin Delgado.	**Milton Chavarro.**

Testing Procedure: **Las prueba fue realizada de acuerdo con la norma LM 79 de 2024.**
Tiempo de estabilizacion: 0:16':20"
Tiempo de ensayo: 0:30':07"

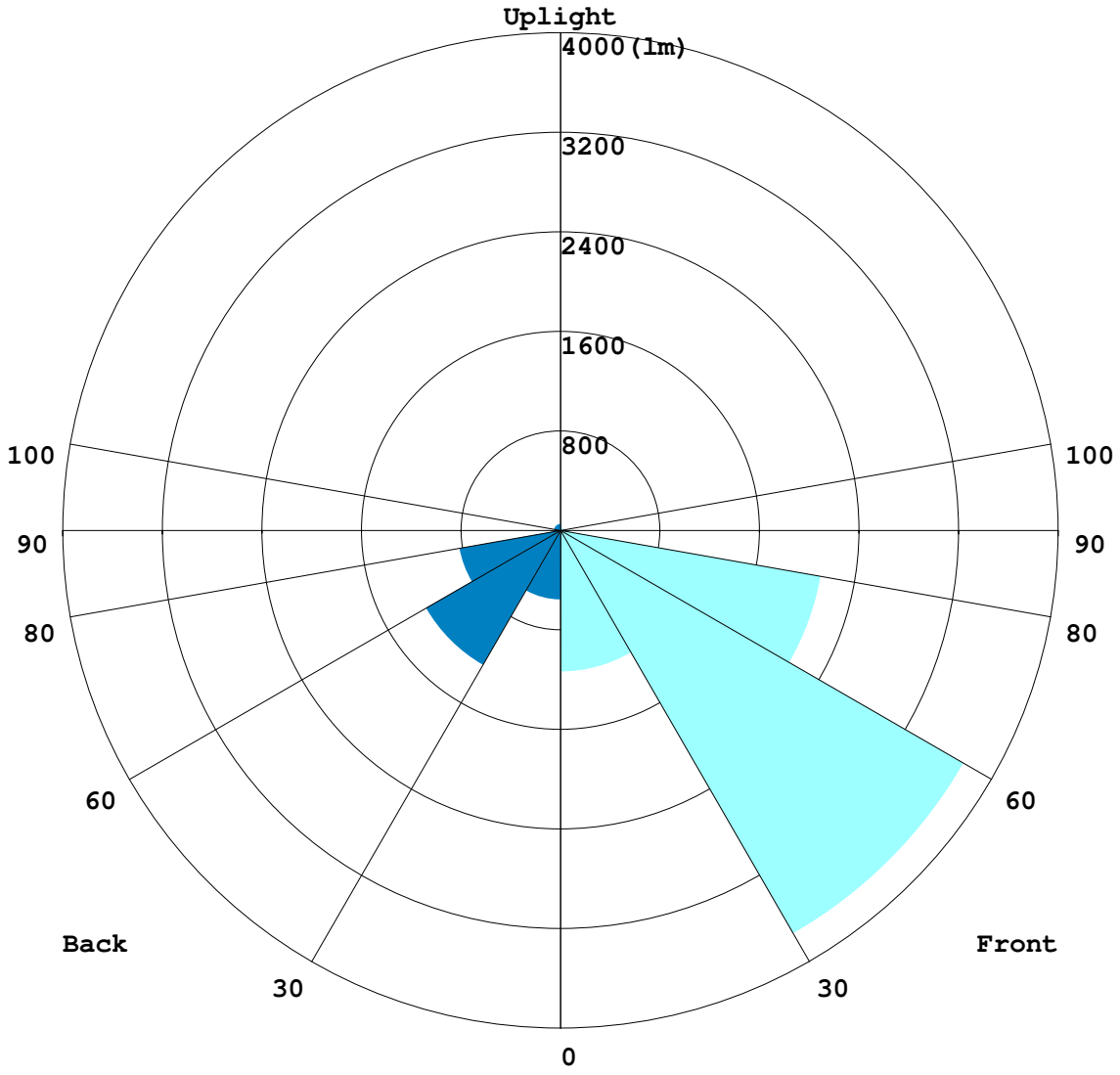
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Kevin Delgado
Test Date:2026-05-14

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:52.9-MIN:43.9%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-3-A KAYRA II 24 LED
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

LCS REPORT

Test:U:220.17V I:0.3211A P:69.697W PF:0.9859 Freq:60.01Hz Lamp Flux:9837.46x1 lm		
NAME: ANEXO 26-0235-3-A KAYRA II 24 LED 70W	TYPE:ALUMBRADO PUBLICO	WEIGHT:----
SPEC.:24 LED 70W	DIM.: ----	SERIAL No.:26-0235-3
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



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Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:52.9-MIN:43.9%
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Remarks: ANEXO 26-0235-3-A KAYRA II 24 LED
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

BUG REPORT

Test:U:220.17V I:0.3211A P:69.697W PF:0.9859 Freq:60.01Hz Lamp Flux:9837.46x1 lm		
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SPEC.:24 LED 70W	DIM.: ----	SERIAL No.:26-0235-3
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1134.3	11.5
FM - Front-Medium(30-60)	3742	38.0
FH - Front-High(60-80)	2124.5	21.6
FVH - Front-Very High(80-90)	82.995	0.8
Total Forward Light	7111.6	72.3

BL - Back-Low(0-30)	554.8	5.6
BM - Back-Medium(30-60)	1248.5	12.7
BH - Back-High(60-80)	823.48	8.4
BVH - Back-Very High(80-90)	44.143	0.4
Total Back Light	2725.8	27.7

UL - Uplight-Low(90-100)	7.5265	0.1
UH - Uplight-High(100-180)	75.208	0.8
Total Up Light	82.734	0.8

BUG(Back,Up,Glare) Rating	B2-U3-G2

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	2670.9	54.966	2725.8
Street Side	7083.8	27.768	7111.6

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Kevin Delgado
Test Date:2026-05-14

γ Range: 0 - 180DEG
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Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

ROAD ISOCANDELA REPORT

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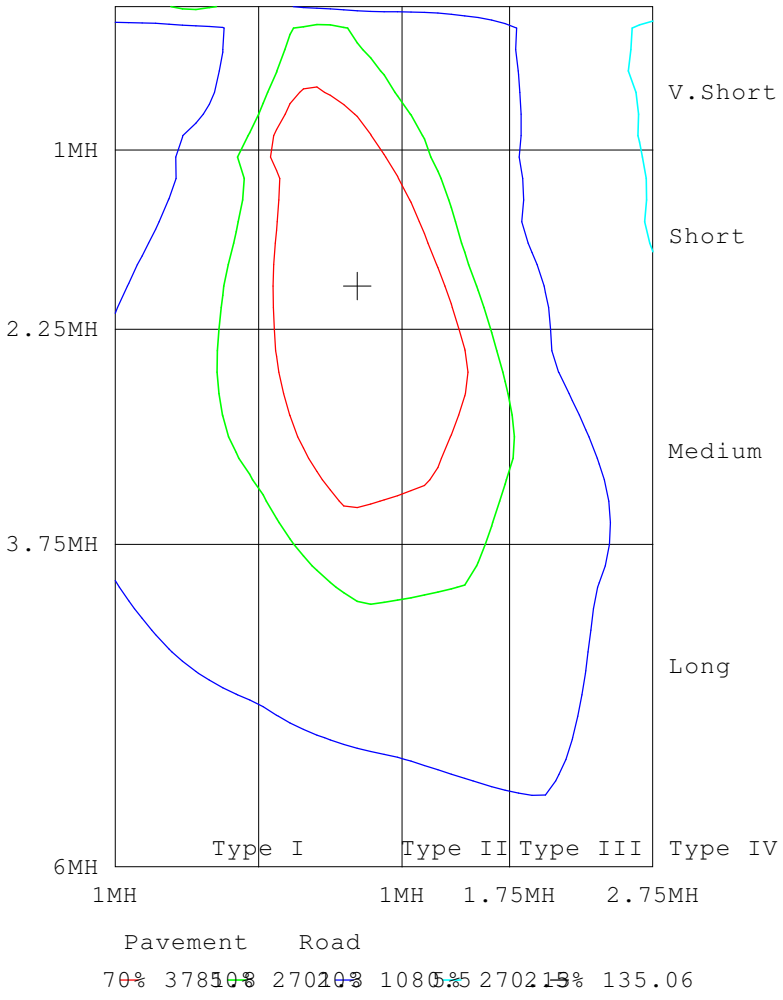
NAME: ANEXO 26-0235-3-A KAYRA II 24 LED 70W	TYPE:ALUMBRADO PUBLICO	WEIGHT:----
SPEC.:24 LED 70W	DIM.: ----	SERIAL No.:26-0235-3
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Kevin Delgado
Test Date:2026-05-14

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Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:52.9-MIN:43.9%
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Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.17V I:0.3211A P:69.697W PF:0.9859 Freq:60.01Hz Lamp Flux:9837.46x1 lm		
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SPEC.:24 LED 70W	DIM.: ----	SERIAL No.:26-0235-3
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103
5	2100	2138	2172	2195	2222	2244	2266	2281	2294	2308	2302	2299	2284	2273	2248	2223	2189	2148	2101
10	2098	2183	2260	2328	2394	2451	2490	2521	2535	2550	2539	2528	2496	2460	2394	2341	2277	2195	2094
15	2104	2220	2339	2450	2527	2587	2615	2635	2647	2655	2647	2641	2614	2584	2520	2429	2328	2229	2098
20	2129	2298	2506	2658	2740	2782	2800	2828	2847	2853	2837	2822	2793	2767	2730	2620	2437	2282	2119
25	2163	2410	2681	2871	2988	3030	3048	3043	3040	3044	3046	3038	3007	2967	2916	2799	2566	2335	2141
30	2303	2714	3201	3458	3457	3295	3061	2889	2795	2806	2848	3007	3215	3397	3439	3300	2947	2521	2244
35	2444	3071	3651	3781	3559	3227	2926	2715	2592	2590	2638	2824	3075	3406	3687	3740	3383	2748	2366
40	2812	3714	4254	4131	3679	3213	2833	2590	2470	2448	2518	2711	3009	3403	3854	4222	4059	3266	2615
45	3247	4158	4515	4373	3800	3191	2723	2482	2394	2368	2431	2602	2929	3428	3987	4468	4437	3702	2883
50	3016	3957	4669	4581	3793	3007	2479	2279	2104	2040	2182	2421	2686	3326	4116	4777	4637	3869	3073
55	3036	4125	4886	4694	3707	2842	2293	1978	1820	1792	1890	2166	2518	3195	4086	4927	4783	3837	2886
60	3212	4461	5217	4762	3406	2327	1698	1409	1227	1194	1321	1613	2050	2831	3923	5173	5180	4181	3061
65	3267	4675	5298	4621	2928	1650	1139	921	753	735	854	1121	1474	2261	3661	5185	5401	4426	3194
70	3132	4536	4835	3985	1701	640	407	284	253	252	271	356	601	1070	2774	4853	5449	4771	3259
75	2460	3783	3743	2799	778	325	209	166	144	147	156	206	275	491	1630	4207	4862	4521	3032
80	502	744	1214	479	419	138	74.6	66.3	59.4	60.6	67.8	83.0	115	228	662	1559	2339	1977	1184
85	60.4	80.7	181	80.7	128	39.0	25.4	22.5	21.5	6.28	26.8	31.3	46.0	88.3	275	364	438	469	313
90	11.5	8.86	6.21	4.24	2.97	2.27	1.96	1.79	1.59	1.29	1.69	2.00	2.23	2.62	3.41	4.85	6.64	8.92	9.79
95	13.5	10.3	7.18	4.81	3.33	2.54	2.20	2.03	1.92	1.73	1.89	2.00	2.15	2.49	3.14	4.35	6.39	9.19	10.9
100	16.4	12.6	8.84	5.98	4.20	3.28	2.88	2.66	2.58	2.50	2.56	2.64	2.80	3.22	4.11	5.77	8.50	12.1	14.4
105	18.1	14.0	9.92	6.78	4.82	3.78	3.31	3.08	3.01	2.96	2.99	3.08	3.27	3.73	4.78	6.73	9.96	14.1	16.4
110	19.9	15.6	11.2	7.78	5.66	4.51	3.96	3.69	3.64	3.65	3.62	3.69	3.96	4.51	5.71	7.98	11.7	16.4	18.5
115	20.7	16.4	12.0	8.52	6.31	5.02	4.36	4.12	4.10	4.12	4.07	4.10	4.39	5.07	6.37	8.76	12.7	17.5	19.4
120	21.6	17.6	13.3	9.74	7.29	5.71	4.93	4.74	4.77	4.80	4.73	4.69	4.94	5.80	7.38	9.91	13.9	18.5	20.7
125	21.8	18.1	14.0	10.4	7.85	6.16	5.31	5.14	5.16	5.19	5.11	5.07	5.27	6.17	7.79	10.3	14.1	18.4	21.3
130	21.3	18.1	14.5	11.1	8.53	6.89	6.00	5.75	5.70	5.71	5.61	5.64	5.87	6.72	8.25	10.6	13.8	17.6	21.7
135	20.6	17.8	14.5	11.4	9.00	7.43	6.52	6.19	6.07	6.04	5.93	6.02	6.35	7.23	8.59	10.7	13.6	16.8	21.9
140	19.5	17.3	14.6	12.0	9.84	8.33	7.42	6.97	6.71	6.61	6.49	6.65	7.15	8.08	9.44	11.2	13.3	15.9	21.6
145	19.0	17.1	14.8	12.5	10.5	9.06	8.10	7.62	7.30	7.18	7.05	7.25	7.76	8.67	9.95	11.6	13.4	15.5	21.1
150	18.4	17.0	15.2	13.3	11.7	10.4	9.26	8.86	8.50	8.39	8.30	8.50	8.95	9.74	10.8	12.1	13.5	15.1	20.4
155	18.3	17.1	15.6	14.0	12.5	11.3	10.1	9.85	9.52	9.41	9.33	9.53	9.94	10.6	11.6	12.7	13.8	15.1	20.2
160	18.4	17.4	16.2	15.0	13.7	12.7	11.7	11.6	11.3	11.2	11.1	11.3	11.6	12.1	12.7	13.6	14.7	15.8	20.0
165	18.3	17.6	16.6	15.6	14.7	13.9	12.9	12.9	12.7	12.6	12.6	12.7	12.8	13.1	13.6	14.3	15.2	16.2	19.8
170	18.6	18.2	17.5	16.8	16.2	15.7	14.9	15.1	14.9	14.9	14.8	14.8	14.8	14.9	15.2	15.6	16.2	16.9	19.6
175	19.0	18.7	18.2	17.7	17.2	16.9	16.2	16.6	16.4	16.4	16.3	16.3	16.2	16.3	16.4	16.7	17.1	17.6	19.7
180	19.6	19.4	19.1	18.9	18.7	18.7	18.2	18.5	18.5	18.6	18.6	18.7	18.6	18.6	18.5	18.5	18.5	18.6	19.6

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Kevin Delgado
Test Date:2026-05-14

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:52.9-MIN:43.9%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-3-A KAYRA II 24 LED
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.17V I:0.3211A P:69.697W PF:0.9859 Freq:60.01Hz Lamp Flux:9837.46x1 lm		
NAME: ANEXO 26-0235-3-A KAYRA II 24 LED 70W	TYPE:ALUMBRADO PUBLICO	WEIGHT:----
SPEC.:24 LED 70W	DIM.: ----	SERIAL No.:26-0235-3
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----

Table--2 UNIT: cd

γ (DEG) \ C(DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103		
5	2062	2021	1971	1925	1881	1845	1809	1786	1777	1781	1795	1818	1851	1901	1950	2002	2057		
10	1991	1865	1729	1595	1467	1370	1301	1265	1252	1265	1297	1356	1442	1559	1701	1848	1997		
15	1950	1765	1558	1370	1228	1141	1084	1058	1054	1062	1091	1144	1229	1359	1543	1760	1970		
20	1912	1624	1332	1125	1007	976	954	944	944	947	967	994	1027	1135	1336	1633	1943		
25	1884	1525	1199	1003	942	907	880	869	871	873	892	924	965	1022	1214	1540	1928		
30	1869	1378	1031	904	850	812	789	776	777	783	801	829	872	926	1052	1416	1948		
35	1884	1303	952	853	796	758	734	720	718	728	747	777	823	882	988	1375	1996		
40	1944	1250	903	804	734	686	671	656	657	670	687	705	765	853	980	1404	2157		
45	2039	1255	896	784	699	648	646	644	652	657	666	674	731	858	1035	1514	2444		
50	2231	1365	994	773	675	673	666	676	688	683	695	706	750	971	1053	1446	2326		
55	2027	1168	820	789	692	716	665	648	640	636	682	723	796	750	869	1378	2296		
60	2086	1179	694	579	575	704	625	546	535	544	671	633	568	605	776	1411	2410		
65	2187	1229	667	510	495	555	497	450	446	449	535	527	494	549	778	1460	2495		
70	2239	1268	658	436	374	388	349	319	316	316	354	364	353	462	750	1474	2361		
75	2100	1251	648	372	279	287	266	208	191	203	254	256	254	394	640	1233	1807		
80	957	522	286	230	139	130	95.2	71.5	65.1	69.1	84.3	94.6	120	151	164	308	486		
85	246	102	79.2	71.6	56.9	41.4	33.4	22.4	19.2	20.1	23.1	24.6	27.3	35.9	28.8	38.4	64.3		
90	11.4	11.5	10.1	7.51	4.88	3.03	1.90	1.32	1.28	1.50	2.04	3.21	5.56	8.55	11.5	13.0	12.7		
95	13.1	13.5	12.1	9.21	6.10	3.66	2.55	2.15	2.13	2.36	3.11	4.73	7.67	11.2	14.4	16.0	15.6		
100	17.2	17.9	16.6	13.4	9.75	6.54	4.77	4.07	4.02	4.37	5.53	7.80	11.2	15.0	18.4	20.2	19.7		
105	19.3	20.0	18.6	15.7	12.1	8.74	6.59	5.70	5.64	6.04	7.43	9.96	13.3	16.9	20.2	22.0	21.7		
110	21.4	22.1	20.6	18.0	15.0	11.9	9.48	8.42	8.33	8.74	10.3	12.9	16.1	19.2	22.2	24.0	23.6		
115	22.2	23.0	21.8	19.4	16.6	13.7	11.3	10.3	10.1	10.5	12.0	14.7	18.0	21.0	23.7	25.1	24.4		
120	23.2	23.8	23.1	21.2	18.8	16.1	14.1	13.1	12.9	13.4	14.8	17.4	20.8	23.8	25.8	26.1	24.7		
125	23.3	23.7	23.0	21.6	19.8	17.7	16.0	15.0	14.9	15.4	16.7	19.2	22.5	25.2	26.5	26.0	24.1		
130	23.2	23.0	21.9	21.1	20.5	19.5	18.5	17.8	17.7	18.2	19.5	21.5	24.3	26.4	26.7	25.2	22.7		
135	23.1	22.5	21.3	20.6	20.6	20.1	19.6	19.1	19.2	19.7	21.0	22.6	25.1	26.6	26.4	24.6	21.9		
140	22.7	22.2	21.2	20.6	20.6	20.6	20.6	20.5	20.7	21.3	22.4	23.7	25.4	26.2	25.5	23.4	20.6		
145	22.2	22.0	21.2	20.7	20.8	20.8	21.0	21.1	21.4	21.9	23.0	24.2	25.4	25.7	24.8	22.7	20.0		
150	21.3	21.3	21.0	20.8	20.9	20.9	21.4	21.7	22.0	22.5	23.3	24.2	25.0	24.8	23.7	21.9	19.3		
155	21.0	21.1	21.0	20.8	20.9	20.8	21.4	21.8	22.2	22.6	23.3	23.8	24.3	24.1	23.1	21.5	19.3		
160	20.7	20.9	20.9	20.8	20.8	20.5	21.1	21.4	21.8	22.1	22.6	22.9	23.1	22.7	22.0	20.9	19.4		
165	20.4	20.6	20.7	20.6	20.7	20.4	20.8	21.0	21.3	21.5	22.0	22.1	22.2	21.9	21.3	20.5	19.3		
170	19.9	20.1	20.2	20.2	20.2	19.9	20.4	20.4	20.6	20.7	20.9	20.9	21.0	20.7	20.2	19.7	19.0		
175	19.7	19.7	19.7	19.7	19.7	19.4	19.8	19.9	20.0	20.1	20.2	20.2	20.1	19.9	19.6	19.2	18.9		
180	19.4	19.1	18.9	18.7	18.7	18.2	18.5	18.5	18.6	18.6	18.7	18.6	18.6	18.5	18.5	18.5	18.6		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Kevin Delgado
Test Date:2026-05-14

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:52.9-MIN:43.9%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-3-A KAYRA II 24 LED
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

Photometric Data Table [cd]

G/C	0.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0
0.0	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103
2.0	2105	2122	2140	2153	2168	2182	2189	2206	2211	2223
4.0	2100	2138	2172	2195	2222	2244	2266	2281	2294	2308
6.0	2100	2155	2202	2239	2271	2306	2332	2359	2373	2387
8.0	2100	2170	2229	2281	2329	2380	2415	2444	2461	2472
10.0	2098	2183	2260	2328	2394	2451	2490	2521	2535	2550
12.0	2100	2200	2296	2389	2462	2523	2557	2584	2591	2610
14.0	2104	2220	2339	2450	2527	2587	2615	2635	2647	2655
16.0	2111	2241	2389	2514	2598	2645	2664	2682	2696	2702
18.0	2119	2267	2443	2583	2667	2707	2725	2749	2763	2774
20.0	2129	2298	2506	2658	2740	2782	2800	2828	2847	2853
22.0	2139	2349	2585	2750	2839	2890	2917	2936	2949	2952
24.0	2163	2410	2681	2871	2988	3030	3048	3043	3040	3044
26.0	2200	2489	2812	3037	3166	3185	3144	3097	3070	3084
28.0	2247	2588	2979	3254	3340	3293	3143	3015	2944	2961
30.0	2303	2714	3201	3458	3457	3295	3061	2889	2795	2806
32.0	2371	2873	3439	3632	3527	3263	2981	2793	2676	2684
34.0	2444	3071	3651	3781	3559	3227	2926	2715	2592	2590
36.0	2540	3276	3861	3906	3589	3208	2891	2667	2541	2530
38.0	2664	3493	4066	4020	3630	3206	2866	2635	2503	2484
40.0	2812	3714	4254	4131	3679	3213	2833	2590	2470	2448
42.0	3009	3964	4401	4252	3740	3213	2785	2546	2437	2416
44.0	3247	4158	4515	4373	3800	3191	2723	2482	2394	2368
46.0	3343	4140	4598	4486	3829	3143	2646	2415	2322	2236
48.0	3153	4015	4635	4545	3823	3085	2564	2365	2227	2136
50.0	3016	3957	4669	4581	3793	3007	2479	2279	2104	2040
52.0	2992	4021	4761	4630	3754	2930	2392	2120	1965	1932
54.0	3036	4125	4886	4694	3707	2842	2293	1978	1820	1792
56.0	3093	4235	5005	4747	3639	2728	2148	1822	1652	1628
58.0	3159	4339	5124	4770	3547	2528	1950	1634	1450	1420
60.0	3212	4461	5217	4762	3406	2327	1698	1409	1227	1194
62.0	3257	4592	5270	4704	3208	2014	1413	1165	986.5	961.2
64.0	3267	4675	5298	4621	2928	1650	1139	921.3	753.0	734.9
66.0	3270	4714	5256	4507	2587	1289	866.1	666.3	491.4	494.0
68.0	3242	4697	5104	4303	2205	938.6	623.1	410.2	308.3	309.4
70.0	3132	4536	4835	3985	1701	640.1	407.2	284.4	252.9	251.9
72.0	2902	4275	4380	3495	1159	438.1	271.5	222.7	192.0	194.4
74.0	2460	3783	3743	2799	777.6	325.0	209.0	165.7	144.3	147.1
76.0	1877	3010	3035	1929	591.1	257.3	154.1	127.9	111.5	115.7
78.0	1189	1852	2081	1053	509.4	198.5	114.3	96.15	82.31	83.23
80.0	502.1	743.8	1214	479.2	418.8	138.4	74.57	66.27	59.43	60.61
82.0	209.1	411.6	347.7	279.4	239.6	84.16	47.73	40.70	38.81	38.48
84.0	60.38	80.66	181.3	80.71	127.7	39.01	25.40	22.45	21.52	6.280
86.0	18.88	19.02	18.46	16.60	16.17	10.69	9.117	9.494	9.258	1.611
88.0	11.45	9.368	6.817	4.940	3.472	2.790	2.570	2.848	2.886	1.232
90.0	11.53	8.861	6.207	4.244	2.974	2.267	1.962	1.789	1.592	1.289
92.0	12.53	9.600	6.686	4.521	3.146	2.399	2.059	1.868	1.707	1.460
94.0	13.49	10.32	7.180	4.811	3.328	2.537	2.200	2.034	1.918	1.731
96.0	14.46	11.04	7.684	5.171	3.597	2.779	2.419	2.249	2.152	2.056
98.0	15.47	11.83	8.265	5.573	3.900	3.026	2.648	2.458	2.363	2.277
100.0	16.42	12.60	8.836	5.979	4.200	3.284	2.881	2.664	2.579	2.504
102.0	17.29	13.33	9.382	6.381	4.510	3.540	3.098	2.875	2.794	2.737
104.0	18.11	14.04	9.916	6.779	4.825	3.782	3.314	3.079	3.006	2.962
106.0	18.83	14.66	10.39	7.144	5.106	4.018	3.534	3.282	3.220	3.192
108.0	19.43	15.19	10.79	7.455	5.366	4.260	3.753	3.484	3.422	3.418
110.0	19.91	15.63	11.16	7.777	5.657	4.514	3.961	3.689	3.641	3.649
112.0	20.28	16.00	11.54	8.118	5.979	4.768	4.165	3.906	3.870	3.881
114.0	20.66	16.42	11.96	8.516	6.315	5.017	4.364	4.120	4.100	4.118
116.0	21.04	16.85	12.42	8.940	6.646	5.264	4.557	4.334	4.331	4.353
118.0	21.36	17.27	12.90	9.350	6.978	5.487	4.746	4.540	4.557	4.582
120.0	21.62	17.65	13.30	9.741	7.286	5.713	4.930	4.738	4.772	4.803
122.0	21.77	17.93	13.65	10.09	7.569	5.941	5.114	4.939	4.976	5.008
124.0	21.83	18.11	13.95	10.40	7.845	6.159	5.310	5.137	5.163	5.189
126.0	21.76	18.21	14.20	10.66	8.092	6.386	5.511	5.343	5.343	5.364
128.0	21.56	18.21	14.35	10.88	8.314	6.628	5.743	5.541	5.514	5.530
130.0	21.26	18.14	14.46	11.06	8.529	6.889	5.998	5.750	5.701	5.705
132.0	20.93	17.99	14.51	11.22	8.749	7.155	6.244	5.972	5.880	5.878
134.0	20.58	17.81	14.52	11.36	9.002	7.426	6.518	6.190	6.067	6.039
136.0	20.22	17.61	14.53	11.54	9.266	7.710	6.805	6.436	6.258	6.203
138.0	19.84	17.41	14.56	11.76	9.541	8.011	7.110	6.693	6.473	6.393
140.0	19.52	17.28	14.64	11.98	9.838	8.330	7.424	6.971	6.712	6.614
142.0	19.28	17.19	14.72	12.21	10.15	8.677	7.763	7.276	6.983	6.873
144.0	19.04	17.12	14.81	12.46	10.49	9.058	8.102	7.621	7.300	7.176
146.0	18.80	17.05	14.91	12.72	10.85	9.465	8.457	7.999	7.656	7.531

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Kevin Delgado
Test Date:2026-05-14

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:52.9-MIN:43.9%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-3-A KAYRA II 24 LED
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

Photometric Data Table [cd]

148.0	18.59	17.00	15.04	13.02	11.25	9.904	8.848	8.414	8.056	7.940
150.0	18.44	16.97	15.19	13.33	11.66	10.35	9.264	8.861	8.499	8.387
152.0	18.34	17.03	15.39	13.69	12.08	10.81	9.679	9.347	8.989	8.872
154.0	18.35	17.13	15.62	14.03	12.50	11.27	10.12	9.851	9.519	9.409
156.0	18.36	17.21	15.84	14.36	12.89	11.74	10.59	10.40	10.08	9.965
158.0	18.37	17.30	16.05	14.65	13.30	12.22	11.10	10.99	10.69	10.57
160.0	18.36	17.38	16.23	14.96	13.72	12.74	11.65	11.60	11.33	11.21
162.0	18.33	17.45	16.42	15.27	14.18	13.29	12.24	12.26	12.00	11.90
164.0	18.34	17.57	16.65	15.63	14.66	13.87	12.86	12.95	12.71	12.62
166.0	18.39	17.72	16.92	16.01	15.17	14.48	13.49	13.66	13.44	13.35
168.0	18.48	17.92	17.21	16.42	15.68	15.09	14.16	14.39	14.17	14.09
170.0	18.61	18.15	17.53	16.83	16.20	15.70	14.86	15.14	14.94	14.86
172.0	18.78	18.42	17.89	17.26	16.72	16.32	15.55	15.87	15.69	15.64
174.0	19.02	18.72	18.23	17.70	17.24	16.94	16.23	16.59	16.42	16.37
176.0	19.28	19.05	18.56	18.15	17.78	17.55	16.90	17.28	17.14	17.12
178.0	19.46	19.24	18.84	18.55	18.26	18.12	17.53	17.90	17.78	17.82
180.0	19.58	19.39	19.12	18.95	18.73	18.67	18.15	18.53	18.46	18.56

G/C	100.0	110.0	120.0	130.0	140.0	150.0	160.0	170.0	180.0	190.0
0.0	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103
2.0	2215	2219	2205	2198	2182	2169	2148	2125	2101	2081
4.0	2302	2299	2284	2273	2248	2223	2189	2148	2101	2062
6.0	2378	2371	2349	2330	2302	2273	2220	2163	2101	2039
8.0	2465	2457	2424	2390	2347	2308	2250	2181	2097	2014
10.0	2539	2528	2496	2460	2394	2341	2277	2195	2094	1991
12.0	2598	2589	2555	2527	2458	2382	2302	2211	2094	1968
14.0	2647	2641	2614	2584	2520	2429	2328	2229	2098	1950
16.0	2690	2686	2669	2645	2587	2484	2358	2247	2103	1935
18.0	2759	2747	2718	2705	2658	2550	2395	2263	2109	1924
20.0	2837	2822	2793	2767	2730	2620	2437	2282	2119	1912
22.0	2944	2925	2881	2856	2807	2701	2494	2304	2128	1896
24.0	3046	3038	3007	2967	2916	2799	2566	2335	2141	1884
26.0	3092	3122	3145	3122	3050	2923	2673	2383	2165	1877
28.0	2996	3119	3237	3283	3249	3077	2781	2448	2200	1873
30.0	2848	3007	3215	3397	3439	3300	2947	2521	2244	1869
32.0	2729	2898	3135	3427	3581	3537	3149	2625	2300	1875
34.0	2638	2824	3075	3406	3687	3740	3383	2748	2366	1884
36.0	2583	2774	3045	3387	3743	3918	3614	2906	2432	1902
38.0	2545	2740	3031	3385	3795	4081	3834	3083	2516	1920
40.0	2518	2711	3009	3403	3854	4222	4059	3266	2615	1944
42.0	2491	2672	2974	3422	3922	4340	4271	3473	2734	1982
44.0	2431	2602	2929	3428	3987	4468	4437	3702	2883	2039
46.0	2375	2529	2857	3411	4055	4584	4531	3933	3069	2138
48.0	2303	2468	2773	3374	4095	4691	4584	4007	3238	2290
50.0	2182	2421	2686	3326	4116	4777	4637	3869	3073	2231
52.0	2043	2325	2603	3263	4116	4851	4669	3779	2905	2075
54.0	1890	2166	2518	3195	4086	4927	4783	3837	2886	2027
56.0	1735	2003	2414	3107	4058	5020	4916	3942	2923	2031
58.0	1535	1823	2264	2991	4010	5108	5052	4072	2983	2052
60.0	1321	1613	2050	2831	3923	5173	5180	4181	3061	2086
62.0	1087	1374	1780	2592	3824	5196	5290	4305	3125	2115
64.0	853.5	1121	1474	2261	3661	5185	5401	4426	3194	2187
66.0	587.0	864.2	1169	1882	3433	5122	5484	4555	3216	2230
68.0	348.4	586.5	863.3	1482	3141	5010	5510	4691	3254	2238
70.0	270.5	356.1	601.3	1070	2774	4853	5449	4771	3259	2239
72.0	211.4	265.4	397.9	719.1	2280	4614	5252	4723	3203	2200
74.0	155.7	206.0	274.9	491.5	1630	4207	4862	4521	3032	2100
76.0	122.9	154.6	210.3	372.9	1198	3555	4235	3987	2497	1789
78.0	90.17	116.6	155.4	301.7	767.5	2557	3390	3139	1960	1374
80.0	67.76	83.03	114.9	228.4	661.6	1559	2339	1977	1184	956.8
82.0	45.79	53.21	74.51	155.2	509.8	652.0	1188	859.6	563.2	539.3
84.0	26.83	31.27	46.00	88.31	275.3	363.8	437.9	469.4	313.2	245.7
86.0	12.31	15.07	21.69	37.44	144.2	77.05	118.9	80.45	64.45	131.3
88.0	3.952	5.058	6.187	8.410	13.46	16.27	19.66	17.62	16.59	18.16
90.0	1.689	1.998	2.226	2.621	3.407	4.849	6.643	8.921	9.790	11.45
92.0	1.689	1.858	2.010	2.318	2.913	4.007	5.831	8.326	9.742	11.67
94.0	1.893	2.002	2.149	2.493	3.141	4.345	6.393	9.195	10.89	13.06
96.0	2.122	2.205	2.354	2.703	3.420	4.755	7.023	10.11	12.05	14.45
98.0	2.331	2.419	2.576	2.958	3.765	5.265	7.744	11.09	13.27	15.90
100.0	2.556	2.641	2.805	3.218	4.113	5.774	8.496	12.10	14.44	17.24
102.0	2.773	2.867	3.044	3.470	4.453	6.262	9.249	13.11	15.50	18.38
104.0	2.993	3.081	3.274	3.733	4.781	6.731	9.957	14.09	16.45	19.34
106.0	3.201	3.287	3.500	3.996	5.098	7.170	10.62	15.01	17.27	20.17
108.0	3.406	3.493	3.721	4.244	5.415	7.582	11.20	15.79	17.96	20.86
110.0	3.619	3.694	3.955	4.511	5.711	7.977	11.72	16.45	18.50	21.40

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Kevin Delgado
Test Date:2026-05-14

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:52.9-MIN:43.9%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-3-A KAYRA II 24 LED
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

Photometric Data Table [cd]

112.0	3.843	3.896	4.180	4.786	6.032	8.355	12.20	17.00	18.95	21.84
114.0	4.073	4.103	4.395	5.074	6.371	8.760	12.65	17.47	19.37	22.21
116.0	4.308	4.316	4.588	5.342	6.731	9.178	13.12	17.92	19.81	22.59
118.0	4.523	4.511	4.770	5.581	7.069	9.588	13.54	18.30	20.27	22.93
120.0	4.735	4.692	4.940	5.795	7.377	9.911	13.85	18.51	20.68	23.16
122.0	4.927	4.877	5.109	5.986	7.616	10.15	14.01	18.55	21.02	23.28
124.0	5.108	5.066	5.271	6.168	7.791	10.31	14.06	18.43	21.26	23.32
126.0	5.285	5.260	5.452	6.342	7.945	10.44	14.02	18.21	21.43	23.28
128.0	5.453	5.459	5.653	6.521	8.107	10.52	13.95	17.92	21.57	23.21
130.0	5.609	5.640	5.874	6.721	8.254	10.58	13.83	17.56	21.71	23.18
132.0	5.767	5.834	6.104	6.950	8.399	10.63	13.69	17.17	21.83	23.16
134.0	5.926	6.020	6.348	7.226	8.594	10.69	13.57	16.80	21.89	23.15
136.0	6.092	6.213	6.601	7.502	8.854	10.80	13.45	16.46	21.87	23.07
138.0	6.279	6.424	6.866	7.794	9.149	10.98	13.36	16.13	21.77	22.92
140.0	6.487	6.653	7.145	8.078	9.440	11.20	13.34	15.87	21.58	22.71
142.0	6.737	6.924	7.447	8.368	9.705	11.43	13.39	15.66	21.35	22.46
144.0	7.053	7.247	7.762	8.673	9.948	11.61	13.43	15.49	21.12	22.18
146.0	7.420	7.620	8.114	9.001	10.20	11.76	13.45	15.31	20.86	21.85
148.0	7.837	8.034	8.515	9.361	10.48	11.92	13.46	15.16	20.63	21.57
150.0	8.300	8.505	8.946	9.738	10.79	12.10	13.50	15.05	20.43	21.30
152.0	8.801	9.002	9.436	10.17	11.16	12.34	13.61	15.03	20.26	21.10
154.0	9.333	9.533	9.935	10.63	11.55	12.65	13.82	15.13	20.18	20.96
156.0	9.888	10.08	10.47	11.11	11.95	12.99	14.10	15.34	20.15	20.91
158.0	10.49	10.67	11.03	11.60	12.34	13.32	14.39	15.58	20.10	20.83
160.0	11.14	11.31	11.60	12.09	12.74	13.64	14.65	15.80	19.99	20.69
162.0	11.82	11.97	12.19	12.60	13.15	13.95	14.91	16.00	19.88	20.51
164.0	12.56	12.66	12.80	13.13	13.60	14.30	15.18	16.20	19.81	20.37
166.0	13.30	13.36	13.43	13.70	14.09	14.70	15.46	16.41	19.74	20.21
168.0	14.04	14.05	14.07	14.28	14.62	15.16	15.81	16.66	19.65	20.03
170.0	14.78	14.77	14.75	14.92	15.20	15.64	16.18	16.93	19.61	19.87
172.0	15.51	15.51	15.46	15.60	15.81	16.16	16.59	17.25	19.62	19.77
174.0	16.26	16.26	16.21	16.31	16.45	16.73	17.05	17.61	19.65	19.69
176.0	17.04	17.10	17.04	17.09	17.17	17.36	17.57	17.99	19.70	19.62
178.0	17.80	17.89	17.82	17.84	17.83	17.94	18.04	18.31	19.66	19.51
180.0	18.57	18.68	18.61	18.59	18.49	18.50	18.46	18.60	19.59	19.38

G/C	200.0	210.0	220.0	230.0	240.0	250.0	260.0	270.0	280.0	290.0
0.0	2103	2103	2103	2103	2103	2103	2103	2103	2103	2103
2.0	2064	2042	2019	2003	1985	1967	1956	1952	1952	1959
4.0	2021	1971	1925	1881	1845	1809	1786	1777	1781	1795
6.0	1972	1894	1820	1749	1688	1634	1602	1587	1594	1617
8.0	1918	1812	1710	1608	1524	1454	1417	1403	1413	1443
10.0	1865	1729	1595	1467	1370	1301	1265	1252	1265	1297
12.0	1811	1644	1479	1337	1242	1185	1148	1140	1150	1194
14.0	1765	1558	1370	1228	1141	1084	1058	1054	1062	1091
16.0	1718	1480	1277	1146	1057	1024	1015	1018	1022	1039
18.0	1670	1403	1197	1064	1006	991.3	982.0	981.7	986.3	1006
20.0	1624	1332	1125	1007	976.4	953.9	943.6	944.0	947.1	967.3
22.0	1575	1263	1058	973.6	941.7	917.0	906.0	906.8	909.1	929.7
24.0	1525	1199	1003	942.2	906.6	880.2	868.9	871.3	873.1	892.2
26.0	1474	1141	962.8	910.5	871.3	847.6	836.6	839.0	841.3	860.1
28.0	1425	1083	933.3	879.6	840.3	818.2	805.8	807.2	813.0	829.7
30.0	1378	1031	904.2	849.7	811.8	789.3	776.2	776.7	782.5	801.5
32.0	1337	987.5	877.4	821.5	784.1	761.2	747.5	746.4	754.9	774.9
34.0	1303	951.8	852.8	796.4	757.7	734.0	720.1	718.4	728.0	747.3
36.0	1279	927.5	832.8	773.9	732.6	709.5	692.9	691.2	702.5	723.8
38.0	1261	912.2	816.2	753.4	708.1	687.3	672.2	671.9	684.7	702.9
40.0	1250	903.5	803.8	734.4	686.0	671.3	656.0	657.5	670.5	687.0
42.0	1249	897.8	794.7	713.7	664.5	655.1	646.5	650.9	661.7	676.2
44.0	1255	895.8	784.5	698.8	648.3	646.1	644.2	651.5	657.1	666.4
46.0	1271	901.0	777.1	684.4	642.1	645.0	651.5	660.6	662.9	670.5
48.0	1335	923.2	774.4	674.3	653.3	651.1	657.0	669.3	672.1	682.9
50.0	1365	993.5	773.5	674.7	673.1	665.8	676.3	688.4	683.0	694.8
52.0	1225	943.5	821.3	677.0	701.7	678.2	679.6	677.3	668.3	696.9
54.0	1168	820.3	789.1	692.1	715.7	664.9	647.7	640.2	635.7	682.3
56.0	1158	758.9	673.6	722.8	710.4	660.7	616.3	604.5	613.5	695.5
58.0	1165	721.9	617.5	643.7	695.1	675.2	590.7	576.1	592.7	714.6
60.0	1179	694.4	578.8	575.2	703.9	625.0	545.8	535.0	543.5	670.9
62.0	1196	675.5	542.9	532.0	633.1	558.5	495.2	488.6	493.9	605.2
64.0	1229	666.7	509.5	495.3	554.8	496.8	450.4	446.4	449.1	535.2
66.0	1253	677.9	484.6	456.7	496.1	441.0	402.2	396.7	400.9	456.6
68.0	1253	670.9	468.6	416.8	440.2	394.5	356.5	352.5	355.8	400.5
70.0	1268	657.7	436.1	373.6	388.5	349.2	319.1	316.2	316.1	353.6
72.0	1268	647.9	401.4	326.0	334.5	307.2	277.6	269.3	275.0	310.4
74.0	1251	648.4	371.5	279.0	287.1	265.9	207.7	191.3	203.2	253.7

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Kevin Delgado
Test Date:2026-05-14

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:52.9-MIN:43.9%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-3-A KAYRA II 24 LED
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

Photometric Data Table [cd]

76.0	1102	595.8	340.9	233.7	235.6	194.4	148.5	135.9	145.2	185.2
78.0	823.6	452.1	312.1	190.2	184.0	136.3	106.6	98.04	103.8	127.4
80.0	522.2	286.4	230.1	139.0	130.4	95.20	71.51	65.10	69.11	84.31
82.0	311.8	169.6	148.1	97.26	79.74	61.46	42.79	38.48	39.86	49.94
84.0	102.2	79.21	71.63	56.92	41.40	33.40	22.44	19.23	20.09	23.11
86.0	31.56	30.46	29.30	19.93	17.31	12.07	7.987	3.483	6.950	7.089
88.0	14.74	12.47	10.21	6.378	4.929	3.326	1.708	1.773	1.954	2.585
90.0	11.53	10.08	7.505	4.883	3.032	1.903	1.324	1.276	1.502	2.045
92.0	11.98	10.66	7.900	5.071	2.915	1.987	1.669	1.654	1.854	2.459
94.0	13.45	12.13	9.211	6.105	3.660	2.545	2.147	2.126	2.360	3.108
96.0	14.98	13.68	10.65	7.297	4.535	3.197	2.706	2.677	2.951	3.836
98.0	16.55	15.25	12.10	8.525	5.503	3.949	3.354	3.310	3.632	4.656
100.0	17.94	16.62	13.40	9.753	6.542	4.768	4.069	4.024	4.369	5.535
102.0	19.07	17.71	14.60	10.98	7.630	5.649	4.864	4.803	5.185	6.467
104.0	19.99	18.61	15.66	12.12	8.742	6.591	5.700	5.642	6.038	7.431
106.0	20.80	19.40	16.55	13.15	9.839	7.557	6.590	6.518	6.923	8.392
108.0	21.50	20.06	17.29	14.08	10.91	8.526	7.505	7.424	7.834	9.347
110.0	22.07	20.65	17.97	14.97	11.89	9.477	8.418	8.328	8.740	10.26
112.0	22.55	21.19	18.68	15.82	12.80	10.41	9.347	9.234	9.643	11.15
114.0	22.98	21.76	19.44	16.65	13.66	11.33	10.27	10.13	10.55	12.03
116.0	23.38	22.35	20.17	17.42	14.49	12.23	11.20	11.05	11.47	12.92
118.0	23.67	22.81	20.79	18.13	15.32	13.15	12.13	11.98	12.42	13.83
120.0	23.83	23.07	21.24	18.81	16.14	14.07	13.07	12.91	13.40	14.76
122.0	23.83	23.14	21.52	19.39	16.95	15.02	14.03	13.86	14.37	15.73
124.0	23.72	22.98	21.59	19.82	17.72	15.97	15.01	14.86	15.38	16.72
126.0	23.50	22.68	21.52	20.13	18.41	16.89	15.97	15.83	16.37	17.71
128.0	23.24	22.30	21.34	20.35	18.98	17.74	16.90	16.80	17.33	18.65
130.0	22.97	21.91	21.09	20.47	19.46	18.50	17.75	17.70	18.23	19.52
132.0	22.71	21.54	20.81	20.52	19.84	19.12	18.50	18.49	19.03	20.29
134.0	22.53	21.27	20.61	20.55	20.11	19.62	19.14	19.18	19.72	20.96
136.0	22.40	21.14	20.54	20.53	20.31	20.00	19.69	19.77	20.32	21.52
138.0	22.30	21.13	20.58	20.55	20.48	20.32	20.14	20.27	20.83	21.99
140.0	22.24	21.19	20.65	20.57	20.61	20.57	20.51	20.69	21.27	22.38
142.0	22.17	21.22	20.68	20.65	20.72	20.79	20.83	21.07	21.64	22.71
144.0	22.00	21.20	20.72	20.76	20.79	20.99	21.12	21.40	21.94	22.98
146.0	21.73	21.10	20.73	20.84	20.83	21.15	21.35	21.66	22.16	23.15
148.0	21.51	21.03	20.79	20.93	20.87	21.30	21.55	21.86	22.33	23.28
150.0	21.31	20.98	20.83	20.94	20.88	21.39	21.70	22.02	22.47	23.33
152.0	21.17	20.96	20.86	20.92	20.86	21.45	21.79	22.16	22.57	23.33
154.0	21.10	20.96	20.84	20.88	20.80	21.44	21.81	22.21	22.60	23.28
156.0	21.09	20.97	20.80	20.83	20.70	21.35	21.74	22.16	22.52	23.14
158.0	21.06	20.96	20.80	20.81	20.61	21.24	21.61	22.04	22.36	22.94
160.0	20.94	20.89	20.77	20.77	20.50	21.08	21.43	21.83	22.12	22.64
162.0	20.76	20.76	20.66	20.68	20.38	20.90	21.19	21.55	21.82	22.28
164.0	20.63	20.67	20.63	20.68	20.36	20.82	21.03	21.32	21.54	21.96
166.0	20.46	20.56	20.55	20.63	20.33	20.73	20.84	21.10	21.27	21.62
168.0	20.25	20.36	20.37	20.46	20.15	20.59	20.66	20.86	20.99	21.26
170.0	20.05	20.16	20.15	20.21	19.93	20.38	20.44	20.62	20.70	20.90
172.0	19.89	19.96	19.92	19.98	19.66	20.14	20.22	20.36	20.41	20.58
174.0	19.73	19.74	19.68	19.73	19.39	19.85	19.90	20.05	20.07	20.21
176.0	19.56	19.51	19.43	19.44	19.06	19.48	19.51	19.64	19.66	19.77
178.0	19.35	19.25	19.11	19.09	18.66	19.04	19.03	19.16	19.19	19.28
180.0	19.13	18.94	18.74	18.66	18.16	18.52	18.46	18.56	18.58	18.68

G/C	300.0	310.0	320.0	330.0	340.0	350.0
0.0	2103	2103	2103	2103	2103	2103
2.0	1968	1983	2007	2032	2055	2082
4.0	1818	1851	1901	1950	2002	2057
6.0	1658	1715	1789	1867	1950	2036
8.0	1497	1575	1674	1785	1897	2014
10.0	1356	1442	1559	1701	1848	1997
12.0	1239	1324	1452	1619	1802	1982
14.0	1144	1229	1359	1543	1760	1970
16.0	1068	1147	1278	1472	1719	1961
18.0	1026	1076	1204	1404	1675	1951
20.0	994.2	1027	1135	1336	1633	1943
22.0	958.8	995.5	1073	1275	1587	1935
24.0	923.7	965.0	1022	1214	1540	1928
26.0	891.0	932.6	984.5	1152	1491	1927
28.0	858.8	901.9	954.3	1099	1448	1935
30.0	828.9	871.9	925.7	1052	1416	1948
32.0	801.3	845.3	901.8	1015	1393	1968
34.0	776.9	823.0	882.0	987.8	1375	1996
36.0	751.4	802.6	867.6	973.9	1371	2033
38.0	725.9	784.0	857.9	973.1	1380	2080

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Kevin Delgado
Test Date:2026-05-14

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:52.9-MIN:43.9%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-3-A KAYRA II 24 LED
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

Photometric Data Table [cd]

40.0	704.9	765.2	853.5	979.6	1404	2157
42.0	685.5	746.0	853.5	997.6	1446	2270
44.0	673.7	731.4	857.7	1035	1514	2444
46.0	670.6	724.3	874.9	1099	1615	2599
48.0	681.4	728.7	918.5	1160	1585	2478
50.0	705.7	750.1	970.8	1053	1446	2326
52.0	720.0	802.8	874.0	932.7	1387	2289
54.0	723.4	796.4	750.2	868.8	1378	2296
56.0	726.3	691.4	685.4	828.6	1383	2328
58.0	704.9	617.3	641.5	797.6	1396	2358
60.0	632.7	568.0	605.4	776.3	1411	2410
62.0	580.6	532.0	573.8	772.0	1440	2477
64.0	527.3	494.3	548.7	778.3	1460	2495
66.0	471.9	454.7	527.8	760.7	1463	2479
68.0	418.5	407.9	495.3	754.5	1473	2452
70.0	364.0	352.6	461.5	749.6	1474	2361
72.0	308.6	298.7	428.1	736.2	1429	2176
74.0	255.7	253.7	393.8	639.7	1233	1807
76.0	202.7	211.1	340.7	450.3	895.1	1379
78.0	149.8	165.7	245.6	282.7	577.6	915.4
80.0	94.64	120.2	150.6	163.7	307.5	486.1
82.0	53.46	74.72	77.36	67.49	127.9	208.7
84.0	24.63	27.32	35.91	28.85	38.43	64.27
86.0	7.465	8.096	11.77	13.30	15.96	18.90
88.0	3.466	5.368	8.024	10.76	12.32	12.26
90.0	3.210	5.555	8.553	11.54	13.00	12.68
92.0	3.856	6.551	9.845	13.01	14.54	14.14
94.0	4.729	7.667	11.18	14.45	16.04	15.59
96.0	5.686	8.866	12.58	15.99	17.58	17.03
98.0	6.726	10.06	13.87	17.34	18.99	18.45
100.0	7.796	11.23	15.01	18.43	20.16	19.69
102.0	8.888	12.33	16.02	19.35	21.15	20.76
104.0	9.956	13.34	16.88	20.15	22.01	21.68
106.0	11.00	14.26	17.64	20.87	22.78	22.44
108.0	11.99	15.17	18.37	21.55	23.45	23.05
110.0	12.94	16.08	19.17	22.22	24.01	23.56
112.0	13.84	17.03	20.06	22.95	24.55	23.99
114.0	14.74	17.98	21.03	23.73	25.11	24.37
116.0	15.63	18.95	22.00	24.50	25.59	24.64
118.0	16.50	19.91	22.94	25.21	25.92	24.72
120.0	17.41	20.83	23.81	25.79	26.09	24.66
122.0	18.31	21.69	24.55	26.21	26.13	24.44
124.0	19.22	22.48	25.15	26.47	26.02	24.11
126.0	20.08	23.14	25.65	26.62	25.79	23.66
128.0	20.86	23.75	26.08	26.71	25.48	23.15
130.0	21.52	24.28	26.37	26.74	25.20	22.68
132.0	22.08	24.74	26.51	26.66	24.93	22.28
134.0	22.58	25.08	26.56	26.45	24.60	21.90
136.0	23.02	25.28	26.51	26.16	24.18	21.47
138.0	23.41	25.39	26.39	25.84	23.75	21.03
140.0	23.73	25.41	26.21	25.49	23.38	20.63
142.0	24.00	25.40	25.96	25.13	23.05	20.29
144.0	24.18	25.36	25.70	24.79	22.72	19.98
146.0	24.25	25.27	25.38	24.41	22.38	19.67
148.0	24.25	25.15	25.10	24.07	22.12	19.45
150.0	24.16	24.96	24.80	23.73	21.86	19.31
152.0	24.00	24.66	24.48	23.41	21.64	19.27
154.0	23.80	24.31	24.12	23.08	21.46	19.30
156.0	23.56	23.92	23.67	22.74	21.28	19.35
158.0	23.28	23.51	23.23	22.39	21.12	19.42
160.0	22.92	23.08	22.74	22.04	20.93	19.42
162.0	22.50	22.60	22.24	21.66	20.66	19.31
164.0	22.11	22.19	21.88	21.33	20.46	19.25
166.0	21.78	21.82	21.52	20.99	20.21	19.19
168.0	21.37	21.40	21.10	20.60	19.93	19.09
170.0	20.94	20.95	20.67	20.22	19.67	18.99
172.0	20.56	20.52	20.28	19.90	19.43	18.94
174.0	20.17	20.12	19.87	19.60	19.21	18.92
176.0	19.72	19.66	19.44	19.26	19.00	18.86
178.0	19.21	19.16	19.00	18.90	18.76	18.76
180.0	18.60	18.58	18.50	18.50	18.47	18.60

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Kevin Delgado
Test Date:2026-05-14

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:52.9-MIN:43.9%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-3-A KAYRA II 24 LED
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII