ANEXO 26-0235-2-A KAYRA II 24 LED 60W

Driver XITANIUM 100W 1.1A 0-10V

MOD FF 2X6/740 5050 DA_UHE

Lentes: RA10MIII

Corriente de programación: 760mA



Light Output Ratio:	100.0%		
Luminaire Power:	59.82 W		
I80 =	51.0 cd per klm.	I88 =	1.2 cd per klm.
I90 =	1.2 cd per klm.	I80/I88 =	44.039

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

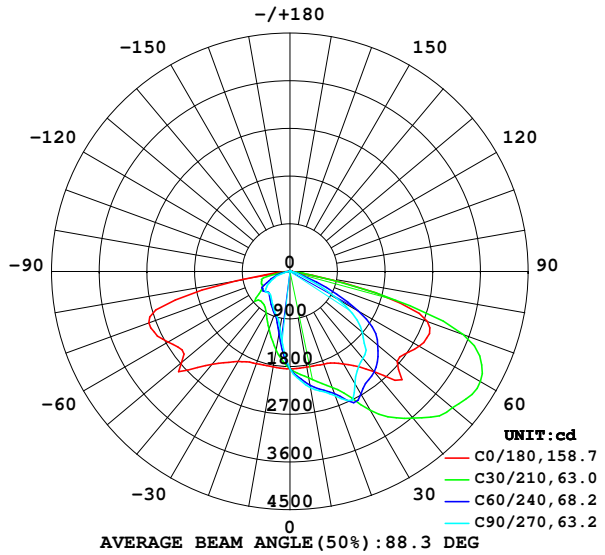
γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:52.6-MIN:42.7%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-2-A KAYRA II 24 LED
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:220.08V I:0.2768A P:59.821W PF:0.9821 Freq:60.01Hz Lamp Flux:8618.58x1 lm		
NAME: ANEXO 26-0235-2-A KAYRA II 24 LED 60W	TYPE:ALUMBRADO PUBLICO	WEIGHT:----
SPEC.:24 LED 60W	DIM.: ----	SERIAL No.:26-0235-2
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----

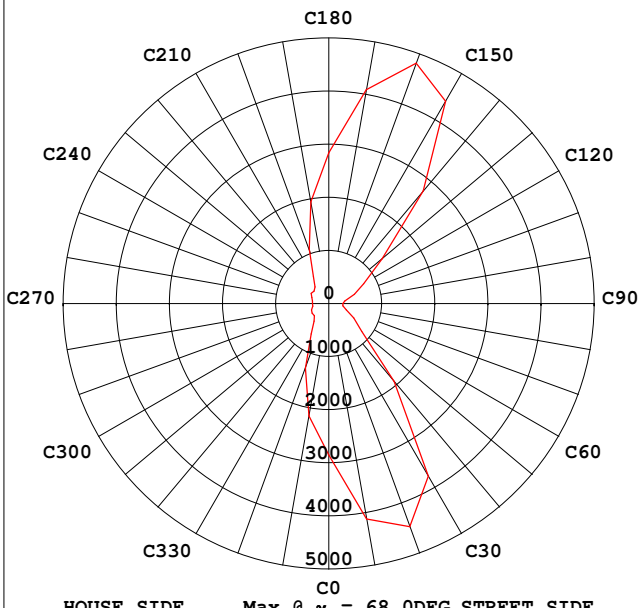
DATA OF LAMP		PHOTOMETRIC DATA Eff: 144.07 lm/W			
MODEL	2X6/740 5050	Imax(cd)	4815	η street_up(%)	0.3
NOMINAL POWER(W)	60	LOR(%)	100.0	η street_down(%)	72.0
RATED VOLTAGE(V)	---	TOTAL FLUX(lm)	8619	η house_up(%)	0.6
NOMINAL FLUX(lm)	8618.58	MAXIMUM @(C,γ)	160,68.0	η house_down(%)	27.2
LAMPS INSIDE	1	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%):88.3 DEG

MAX INTENSITY CONE SURFACE DISTRIBUTION DIAGRAM



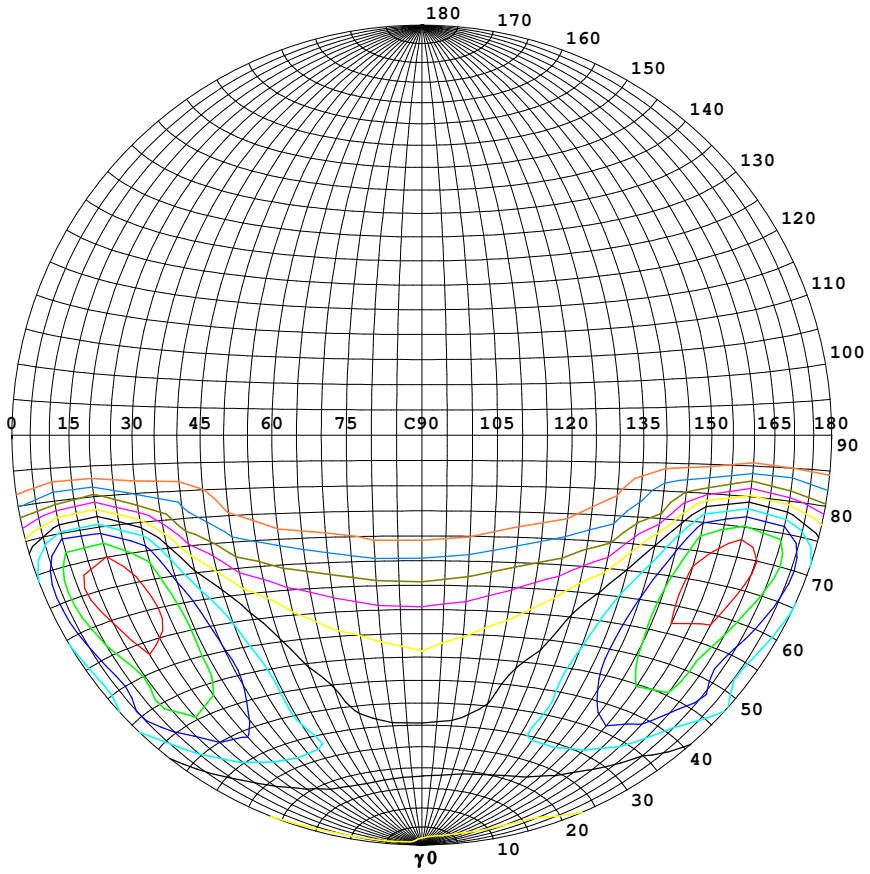
HOUSE SIDE Max @ γ = 68.0DEG STREET SIDE

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:52.6-MIN:42.7%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-2-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:220.08V I:0.2768A P:59.821W PF:0.9821 Freq:60.01Hz Lamp Flux:8618.58x1 lm		
NAME: ANEXO 26-0235-2-A KAYRA II 24 LED 60W	TYPE:ALUMBRADO PUBLICO	WEIGHT:----
SPEC.:24 LED 60W	DIM.: ----	SERIAL No.:26-0235-2
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----



Classification:

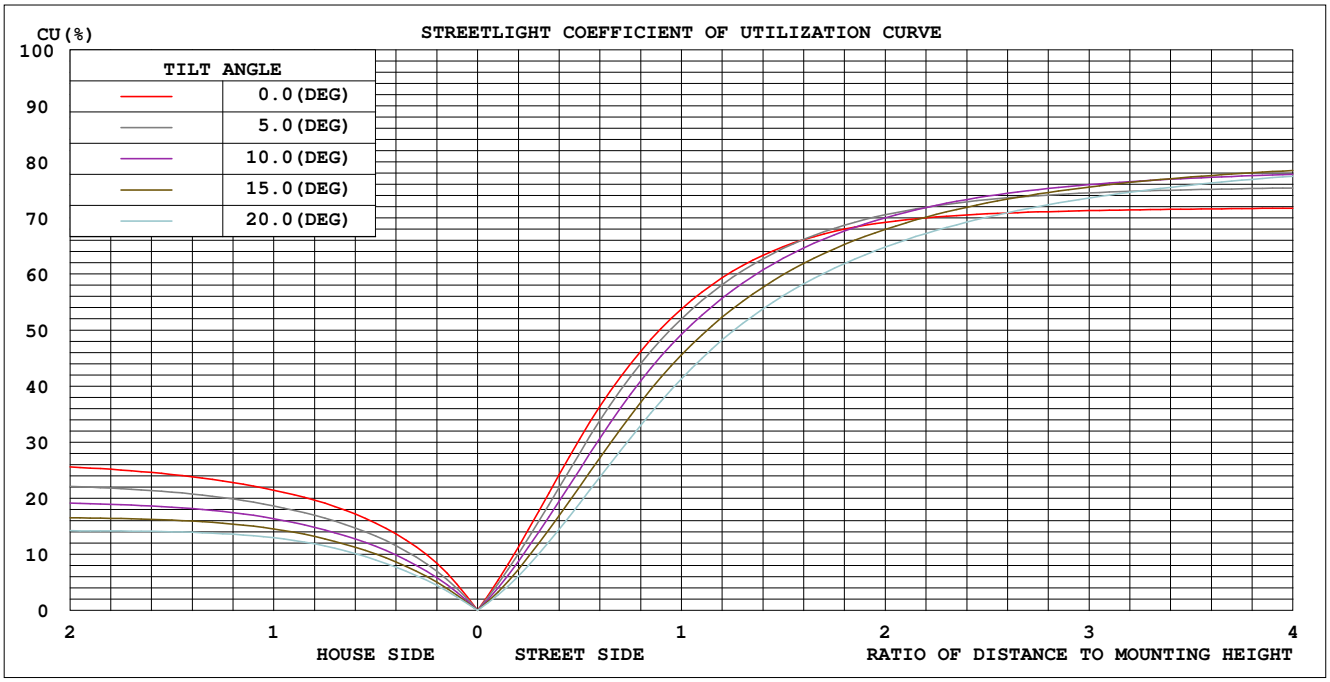
IES:Type III - Medium
CIE:Average - Intermediate
IES:None cut-off
CIE:Non-cut-off
Max.At80:237.5cd/klm
Max.At90:1.323cd/klm
Max.80-90:237.5cd/klm
NRB 5101:Semi limited[14.1%]

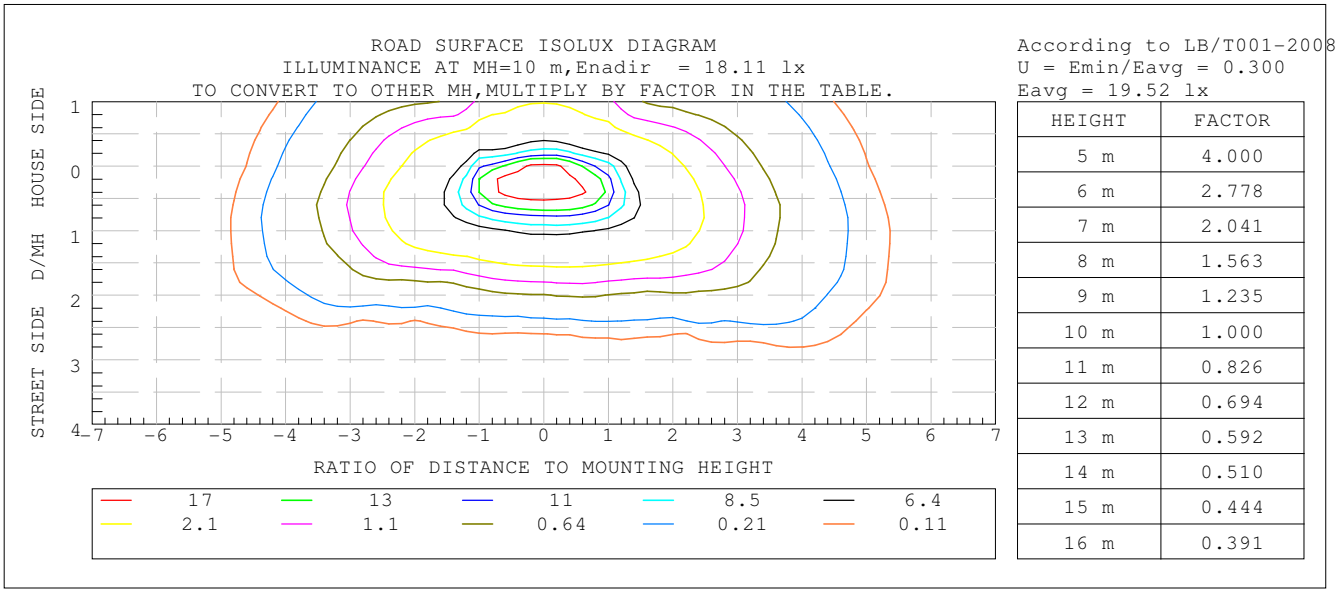
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4815
90%	4333
80%	3852
70%	3370
60%	2889
50%	2407
40%	1926
30%	1444
20%	963
10%	481
5%	241

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:52.6-MIN:42.7%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-2-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 = 19.52 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:52.6-MIN:42.7%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-2-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:220.08V I:0.2768A P:59.821W PF:0.9821 Freq:60.01Hz Lamp Flux:8618.58x1 lm		
NAME: ANEXO 26-0235-2-A KAYRA II 24 LED 60W	TYPE:ALUMBRADO PUBLICO	WEIGHT:----
SPEC.:24 LED 60W	DIM.: ----	SERIAL No.:26-0235-2
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----

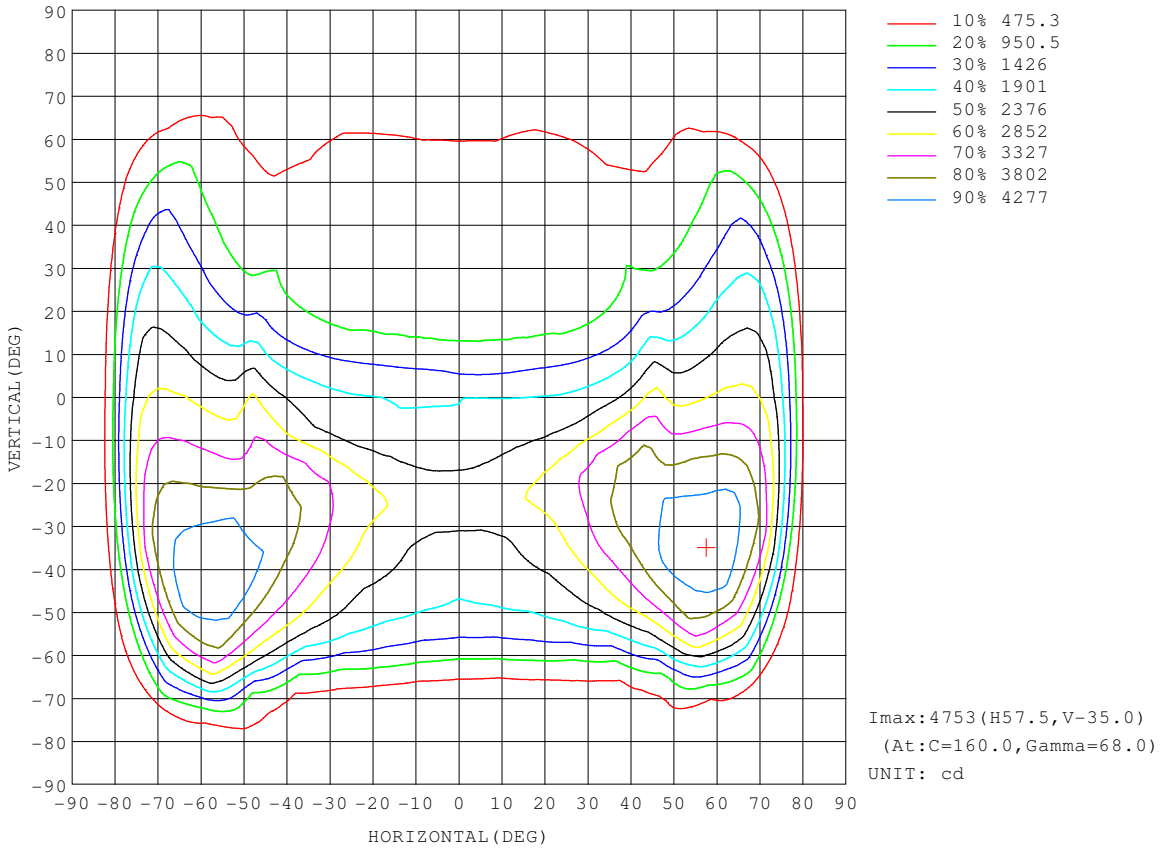
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1837	2123	2231	2129	1832	1339	1098	1315	0- 10	169.6	169.6	1.97,1.97
20	1864	2421	2500	2414	1855	935.5	827.9	949.5	10- 20	485.8	655.5	7.61,7.61
30	2017	2959	2457	3005	1967	772.1	680.8	790.1	20- 30	824.6	1480	17.2,17.2
40	2474	3016	2144	3191	2290	679.1	577.9	711.6	30- 40	1166	2646	30.7,30.7
50	2646	2971	1788	3270	2681	636.5	605.2	758.3	40- 50	1523	4169	48.4,48.4
60	2822	2503	1044	2973	2667	506.9	470.2	516.1	50- 60	1684	5853	67.9,67.9
70	2758	1019	219.9	1699	2837	355.4	277.5	358.0	60- 70	1585	7439	86.3,86.3
80	439.7	243.1	53.13	396.6	1025	169.6	57.24	120.8	70- 80	994.4	8433	97.8,97.8
90	10.07	2.300	1.135	2.677	8.604	5.424	1.120	6.221	80- 90	113.0	8546	99.2,99.2
100	14.35	3.281	2.202	3.224	12.69	10.14	3.515	11.54	90-100	6.597	8553	99.2,99.2
110	17.40	4.462	3.205	4.496	16.24	14.43	7.280	15.52	100-110	9.651	8562	99.3,99.3
120	18.91	5.707	4.211	5.798	18.19	17.53	11.27	19.61	110-120	11.47	8574	99.5,99.5
130	18.66	6.759	5.018	6.584	19.08	18.21	15.46	22.27	120-130	11.93	8586	99.6,99.6
140	17.17	7.970	5.811	7.690	18.93	18.07	18.06	22.67	130-140	10.90	8597	99.7,99.7
150	16.14	9.654	7.358	9.017	17.89	18.31	19.25	21.84	140-150	9.109	8606	99.9,99.9
160	16.09	11.61	9.825	10.89	17.53	18.19	19.09	20.08	150-160	6.931	8613	99.9,99.9
170	16.32	13.98	13.03	13.21	17.19	17.66	18.02	18.22	160-170	4.392	8617	100,100
180	17.16	16.39	16.26	16.28	17.17	16.39	16.26	16.28	170-180	1.533	8619	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:52.6-MIN:42.7%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-2-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:220.08V I:0.2768A P:59.821W PF:0.9821 Freq:60.01Hz Lamp Flux:8618.58x1 lm		
NAME: ANEXO 26-0235-2-A KAYRA II 24 LED 60W	TYPE:ALUMBRADO PUBLICO	WEIGHT:----
SPEC.:24 LED 60W	DIM.: ----	SERIAL No.:26-0235-2
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----



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
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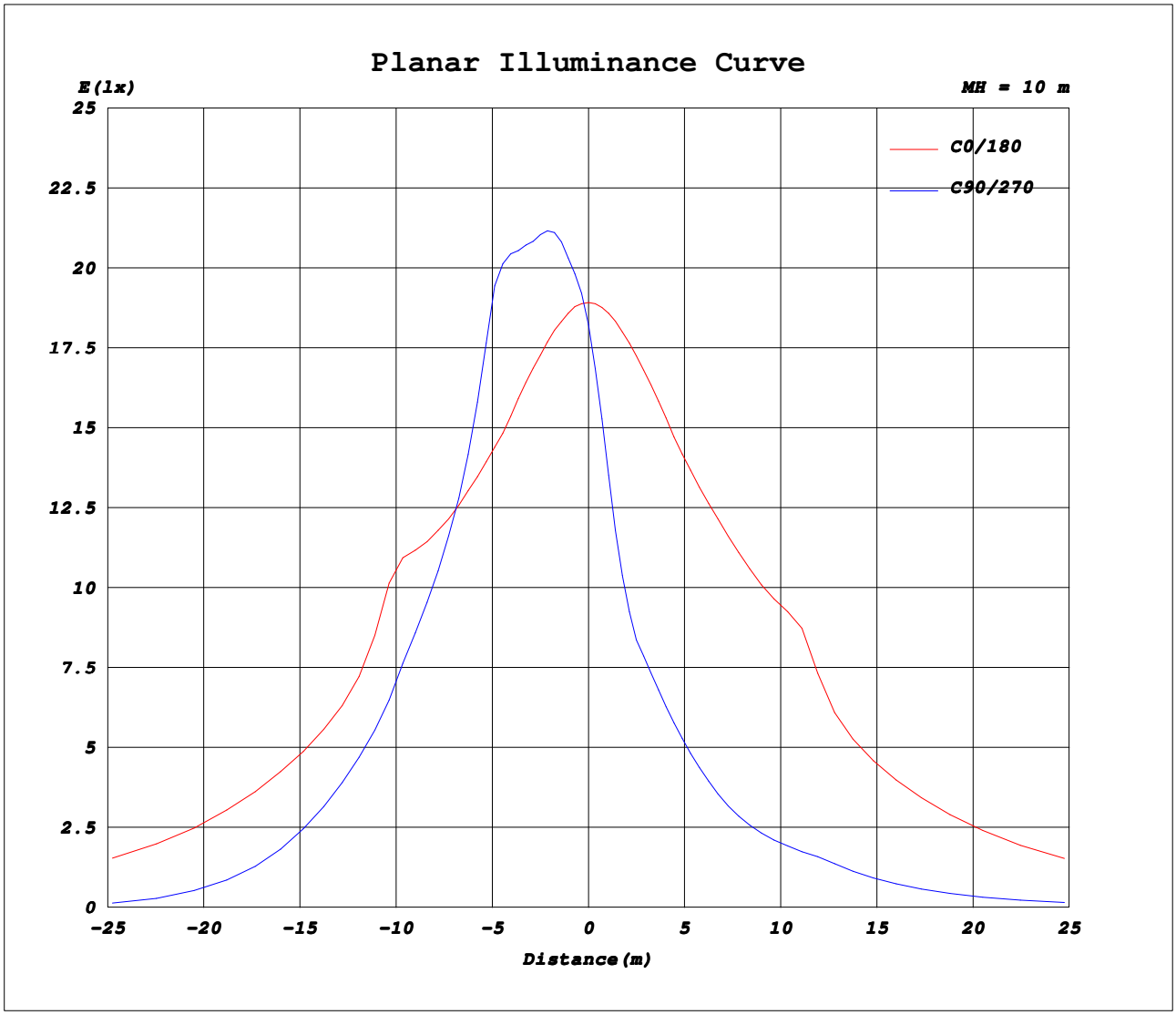
Remarks: ANEXO 26-0235-2-A KAYRA II 24 LED
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

Planar Illuminance Curve



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Humidity:MAX:52.6-MIN:42.7%
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MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII
Corriente de programación: 760mA

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.**

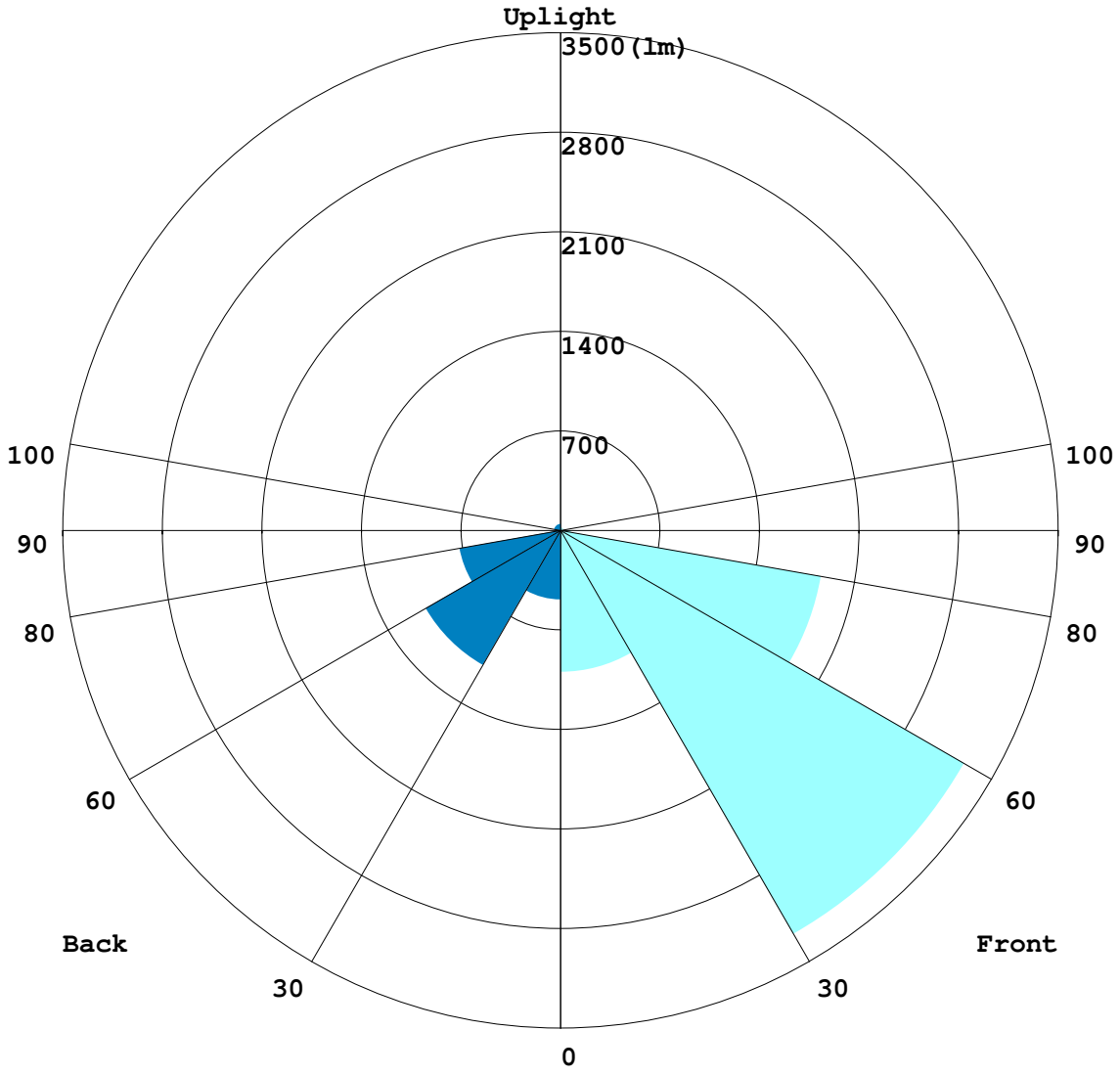
Realizó/revisó	**Realizó:**	**Revisó:**
	Kevin Delgado.	**Milton Chavarro.**

Testing Procedure: **Las prueba fue realizada de acuerdo con la norma LM 79 de 2024.**
Tiempo de estabilizacion: 0:10':50"
Tiempo de ensayo: 0:30':58"

LCS REPORT

Test:U:220.08V I:0.2768A P:59.821W PF:0.9821 Freq:60.01Hz Lamp Flux:8618.58x1 lm		
NAME: ANEXO 26-0235-2-A KAYRA II 24 LED 60W	TYPE:ALUMBRADO PUBLICO	WEIGHT:----
SPEC.:24 LED 60W	DIM.: ----	SERIAL No.:26-0235-2
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



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:52.6-MIN:42.7%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-2-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:220.08V I:0.2768A P:59.821W PF:0.9821 Freq:60.01Hz Lamp Flux:8618.58x1 lm		
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SPEC.:24 LED 60W	DIM.: ----	SERIAL No.:26-0235-2
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	993.92	11.5
FM - Front-Medium(30-60)	3278.2	38.0
FH - Front-High(60-80)	1859.2	21.6
FVH - Front-Very High(80-90)	74.688	0.9
Total Forward Light	6230.4	72.3

BL - Back-Low(0-30)	486.14	5.6
BM - Back-Medium(30-60)	1095	12.7
BH - Back-High(60-80)	720.54	8.4
BVH - Back-Very High(80-90)	38.309	0.4
Total Back Light	2388.2	27.7

UL - Uplight-Low(90-100)	6.597	0.1
UH - Uplight-High(100-180)	65.914	0.8
Total Up Light	72.511	0.8

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

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	2340	48.167	2388.2
Street Side	6206.1	24.344	6230.4

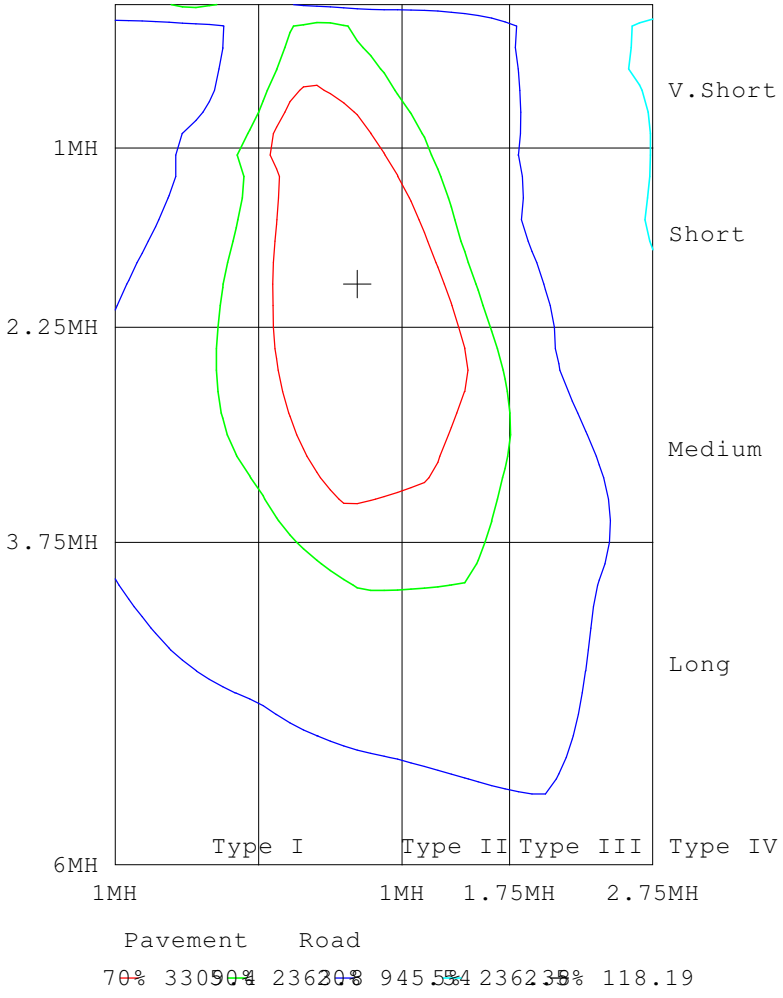
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Kevin Delgado
Test Date:2026-05-14

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:52.6-MIN:42.7%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-2-A KAYRA II 24 LED
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

ROAD ISOCANDELA REPORT

Test:U:220.08V I:0.2768A P:59.821W PF:0.9821 Freq:60.01Hz Lamp Flux:8618.58x1 lm		
NAME: ANEXO 26-0235-2-A KAYRA II 24 LED 60W	TYPE:ALUMBRADO PUBLICO	WEIGHT:----
SPEC.:24 LED 60W	DIM.: ----	SERIAL No.:26-0235-2
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

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:52.6-MIN:42.7%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-2-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:220.08V I:0.2768A P:59.821W PF:0.9821 Freq:60.01Hz Lamp Flux:8618.58x1 lm		
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SPEC.:24 LED 60W	DIM.: ----	SERIAL No.:26-0235-2
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	1839	1839	1839	1839	1839	1839	1839	1839	1839	1839	1839	1839	1839	1839	1839	1839	1839	1839	1839
5	1840	1871	1900	1922	1944	1965	1983	1996	2007	2016	2014	2009	2002	1987	1972	1945	1914	1875	1837
10	1837	1911	1973	2039	2098	2148	2177	2206	2221	2231	2219	2214	2187	2155	2103	2054	1994	1918	1832
15	1839	1942	2045	2144	2216	2263	2288	2306	2312	2325	2315	2310	2295	2263	2209	2128	2039	1948	1835
20	1864	2014	2190	2328	2403	2438	2454	2478	2495	2500	2487	2473	2456	2433	2395	2298	2137	1999	1855
25	1891	2110	2346	2519	2619	2653	2667	2661	2660	2666	2667	2661	2648	2605	2562	2454	2252	2047	1876
30	2017	2382	2797	3026	3032	2886	2679	2529	2445	2457	2497	2638	2825	2985	3025	2900	2584	2212	1967
35	2146	2690	3193	3311	3120	2824	2555	2373	2267	2268	2316	2476	2702	2997	3241	3284	2965	2410	2073
40	2474	3260	3718	3613	3224	2807	2477	2268	2163	2144	2209	2378	2647	2994	3389	3707	3555	2859	2290
45	2856	3646	3945	3826	3322	2786	2381	2172	2091	2071	2129	2283	2576	3009	3511	3918	3889	3237	2520
50	2646	3466	4087	4004	3312	2627	2168	1991	1836	1788	1911	2119	2360	2921	3620	4197	4057	3380	2681
55	2667	3618	4276	4105	3240	2484	2003	1729	1590	1572	1660	1901	2217	2802	3600	4322	4184	3342	2519
60	2822	3911	4564	4153	2975	2028	1484	1231	1068	1044	1150	1415	1801	2484	3463	4536	4534	3652	2667
65	2870	4109	4631	4031	2553	1439	986	804	656	643	749	984	1297	1989	3224	4549	4730	3869	2788
70	2758	3981	4223	3475	1476	559	357	276	221	220	238	314	531	945	2454	4265	4771	4161	2837
75	2174	3320	3268	2361	673	283	183	145	133	129	137	181	242	434	1455	3701	4260	3936	2637
80	440	660	1065	421	364	121	65.1	58.0	51.9	53.1	59.7	72.9	97.5	207	586	1388	2047	1722	1025
85	53.0	72.3	160	71.9	112	34.2	22.3	19.7	18.8	5.65	23.7	27.5	40.8	78.2	245	325	384	413	274
90	10.1	7.74	5.41	3.72	2.60	1.99	1.72	1.57	1.40	1.14	1.50	1.75	1.95	2.32	3.04	4.27	5.84	7.82	8.60
95	11.8	9.02	6.25	4.21	2.91	2.23	1.93	1.78	1.68	1.52	1.67	1.75	1.89	2.19	2.76	3.83	5.62	8.08	9.57
100	14.4	11.0	7.69	5.22	3.67	2.88	2.53	2.34	2.26	2.20	2.24	2.32	2.47	2.83	3.62	5.08	7.46	10.6	12.7
105	15.8	12.2	8.65	5.92	4.22	3.32	2.91	2.70	2.63	2.60	2.62	2.71	2.88	3.28	4.20	5.92	8.76	12.4	14.4
110	17.4	13.6	9.73	6.79	4.96	3.96	3.48	3.24	3.20	3.20	3.18	3.24	3.48	3.96	5.03	7.02	10.3	14.4	16.2
115	18.0	14.3	10.4	7.44	5.53	4.41	3.84	3.61	3.60	3.61	3.58	3.60	3.86	4.46	5.60	7.70	11.1	15.3	17.0
120	18.9	15.4	11.6	8.52	6.39	5.02	4.33	4.16	4.19	4.21	4.16	4.12	4.34	5.10	6.50	8.73	12.2	16.2	18.2
125	19.1	15.8	12.2	9.10	6.88	5.41	4.67	4.51	4.53	4.55	4.48	4.44	4.63	5.42	6.88	9.09	12.4	16.2	18.7
130	18.7	15.8	12.6	9.67	7.47	6.04	5.27	5.06	5.00	5.02	4.93	4.96	5.17	5.90	7.27	9.32	12.2	15.4	19.1
135	18.1	15.6	12.7	9.93	7.89	6.52	5.72	5.44	5.33	5.31	5.21	5.29	5.57	6.34	7.56	9.43	12.0	14.8	19.2
140	17.2	15.2	12.8	10.5	8.63	7.31	6.52	6.12	5.89	5.81	5.70	5.84	6.28	7.09	8.29	9.86	11.7	13.9	18.9
145	16.7	15.0	13.0	10.9	9.20	7.94	7.11	6.69	6.41	6.30	6.19	6.36	6.82	7.61	8.75	10.21	11.8	13.6	18.5
150	16.1	14.9	13.3	11.7	10.2	9.08	8.11	7.76	7.45	7.36	7.28	7.45	7.85	8.54	9.50	10.6	11.9	13.2	17.9
155	16.1	15.0	13.7	12.3	11.0	9.87	8.88	8.64	8.34	8.25	8.18	8.35	8.72	9.32	10.14	11.1	12.1	13.3	17.7
160	16.1	15.2	14.2	13.1	12.0	11.2	10.2	10.2	9.91	9.83	9.75	9.90	10.2	10.6	11.2	12.0	12.9	13.9	17.5
165	16.1	15.4	14.6	13.7	12.9	12.2	11.3	11.3	11.1	11.1	11.0	11.1	11.2	11.5	11.9	12.6	13.3	14.2	17.4
170	16.3	15.9	15.3	14.7	14.2	13.8	13.0	13.3	13.1	13.0	13.0	12.9	12.9	13.1	13.3	13.7	14.2	14.8	17.2
175	16.7	16.4	15.9	15.5	15.1	14.8	14.2	14.5	14.4	14.4	14.3	14.3	14.2	14.3	14.4	14.7	14.9	15.4	17.2
180	17.2	17.0	16.7	16.6	16.4	16.3	15.9	16.2	16.2	16.3	16.3	16.4	16.3	16.3	16.2	16.2	16.1	16.3	17.2

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:52.6-MIN:42.7%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-2-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:220.08V I:0.2768A P:59.821W PF:0.9821 Freq:60.01Hz Lamp Flux:8618.58x1 lm		
NAME: ANEXO 26-0235-2-A KAYRA II 24 LED 60W	TYPE:ALUMBRADO PUBLICO	WEIGHT:----
SPEC.:24 LED 60W	DIM.: ----	SERIAL No.:26-0235-2
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	1839	1839	1839	1839	1839	1839	1839	1839	1839	1839	1839	1839	1839	1839	1839	1839	1839		
5	1804	1763	1723	1685	1644	1611	1580	1561	1554	1556	1569	1591	1620	1664	1705	1751	1799		
10	1742	1629	1511	1394	1283	1198	1152	1107	1098	1108	1135	1188	1262	1367	1490	1620	1744		
15	1702	1542	1363	1199	1074	999	950	927	925	931	955	1006	1078	1193	1352	1541	1722		
20	1673	1417	1165	987	884	856	838	827	828	832	849	873	903	996	1173	1431	1700		
25	1652	1331	1050	882	828	796	773	763	765	766	784	812	848	899	1065	1350	1687		
30	1636	1204	905	797	747	714	693	680	681	687	704	729	766	814	926	1245	1706		
35	1653	1139	837	753	701	666	644	630	630	639	657	683	724	776	870	1210	1749		
40	1699	1093	796	710	648	605	590	576	578	590	603	619	672	751	863	1235	1894		
45	1778	1094	788	693	616	572	569	566	573	578	586	593	643	757	914	1336	2146		
50	1941	1187	874	679	594	595	585	595	605	600	611	621	661	856	924	1271	2043		
55	1765	1013	718	692	608	631	586	570	563	560	601	637	699	659	763	1212	2014		
60	1815	1024	608	508	506	618	546	479	470	478	589	554	500	532	683	1240	2116		
65	1910	1071	584	448	435	488	435	395	393	395	470	463	434	482	684	1285	2193		
70	1947	1099	572	382	328	340	306	280	277	278	311	319	310	406	661	1297	2071		
75	1828	1083	561	325	245	253	233	182	168	178	223	224	223	346	562	1083	1583		
80	824	448	250	213	126	114	83.1	62.5	57.2	60.6	74.2	83.0	110	132	143	310	426		
85	214	87.4	69.4	62.7	49.6	36.2	29.2	19.7	17.0	17.7	20.3	21.5	24.1	31.6	25.2	33.9	55.8		
90	10.0	10.1	8.82	6.58	4.27	2.63	1.60	1.15	1.12	1.33	1.80	2.84	4.90	7.54	10.13	11.4	11.1		
95	11.5	11.8	10.6	8.06	5.34	3.21	2.22	1.88	1.86	2.07	2.72	4.17	6.74	9.83	12.7	14.1	13.6		
100	15.1	15.7	14.5	11.7	8.53	5.72	4.17	3.55	3.51	3.84	4.86	6.87	9.87	13.2	16.2	17.7	17.2		
105	17.0	17.5	16.3	13.7	10.6	7.64	5.76	4.99	4.94	5.30	6.52	8.78	11.7	14.9	17.7	19.3	18.9		
110	18.8	19.3	18.1	15.8	13.1	10.4	8.28	7.36	7.28	7.66	9.01	11.4	14.2	16.9	19.5	21.1	20.6		
115	19.5	20.2	19.1	17.1	14.5	12.0	9.90	8.97	8.87	9.25	10.5	13.0	15.8	18.5	20.9	22.0	21.3		
120	20.4	20.9	20.2	18.6	16.4	14.1	12.3	11.4	11.3	11.7	13.0	15.3	18.3	20.9	22.6	22.9	21.6		
125	20.5	20.7	20.1	18.9	17.3	15.5	14.0	13.1	13.0	13.4	14.7	16.9	19.8	22.1	23.2	22.8	21.1		
130	20.3	20.1	19.2	18.5	17.9	17.0	16.2	15.5	15.5	15.9	17.1	18.9	21.3	23.2	23.5	22.1	19.9		
135	20.3	19.7	18.6	18.1	18.0	17.6	17.1	16.7	16.7	17.2	18.3	19.8	22.0	23.4	23.3	21.6	19.2		
140	19.9	19.4	18.6	18.1	18.0	18.0	18.0	17.9	18.1	18.6	19.6	20.8	22.3	23.0	22.4	20.5	18.1		
145	19.4	19.2	18.6	18.2	18.2	18.2	18.3	18.4	18.7	19.2	20.1	21.2	22.2	22.6	21.8	20.0	17.5		
150	18.6	18.6	18.4	18.3	18.3	18.3	18.7	18.9	19.2	19.7	20.4	21.2	21.9	21.8	20.8	19.2	16.9		
155	18.4	18.5	18.4	18.3	18.3	18.2	18.7	19.1	19.4	19.8	20.3	20.9	21.3	21.2	20.2	18.8	16.9		
160	18.1	18.3	18.3	18.2	18.2	17.9	18.4	18.7	19.1	19.4	19.8	20.1	20.2	20.0	19.3	18.4	17.0		
165	17.8	18.0	18.1	18.1	18.1	17.8	18.2	18.3	18.6	18.8	19.2	19.4	19.4	19.2	18.7	17.9	16.9		
170	17.4	17.5	17.7	17.6	17.7	17.4	17.8	17.9	18.0	18.1	18.3	18.4	18.3	18.1	17.7	17.2	16.7		
175	17.2	17.3	17.3	17.3	17.3	17.0	17.4	17.4	17.5	17.6	17.7	17.7	17.6	17.4	17.1	16.8	16.6		
180	17.0	16.7	16.6	16.4	16.3	15.9	16.2	16.2	16.3	16.3	16.4	16.3	16.3	16.2	16.2	16.1	16.3		

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:52.6-MIN:42.7%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-2-A KAYRA II 24 LED
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

ROY ALPHA
Laboratorio de ensayos

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	1839	1839	1839	1839	1839	1839	1839	1839	1839	1839
2.0	1838	1854	1869	1885	1896	1911	1920	1928	1937	1943
4.0	1840	1871	1900	1922	1944	1965	1983	1996	2007	2016
6.0	1836	1888	1925	1960	1991	2021	2044	2062	2076	2085
8.0	1834	1897	1949	1997	2042	2083	2113	2138	2151	2164
10.0	1837	1911	1973	2039	2098	2148	2177	2206	2221	2231
12.0	1837	1924	2007	2089	2158	2209	2238	2261	2271	2283
14.0	1839	1942	2045	2144	2216	2263	2288	2306	2312	2325
16.0	1845	1964	2089	2204	2275	2317	2333	2352	2355	2368
18.0	1855	1985	2136	2262	2335	2373	2392	2408	2415	2431
20.0	1864	2014	2190	2328	2403	2438	2454	2478	2495	2500
22.0	1874	2057	2260	2409	2493	2533	2546	2568	2577	2589
24.0	1891	2110	2346	2519	2619	2653	2667	2661	2660	2666
26.0	1927	2178	2460	2661	2776	2786	2756	2711	2684	2702
28.0	1968	2266	2609	2849	2928	2884	2751	2638	2572	2589
30.0	2017	2382	2797	3026	3032	2886	2679	2529	2445	2457
32.0	2078	2524	3005	3177	3089	2858	2609	2440	2340	2345
34.0	2146	2690	3193	3311	3120	2824	2555	2373	2267	2268
36.0	2230	2871	3379	3418	3144	2808	2529	2330	2223	2215
38.0	2343	3059	3562	3518	3176	2807	2509	2304	2187	2172
40.0	2474	3260	3718	3613	3224	2807	2477	2268	2163	2144
42.0	2646	3474	3846	3720	3277	2808	2435	2226	2130	2115
44.0	2856	3646	3945	3826	3322	2786	2381	2172	2091	2071
46.0	2941	3632	4022	3923	3354	2751	2314	2113	2030	1955
48.0	2763	3513	4063	3979	3346	2698	2242	2063	1943	1869
50.0	2646	3466	4087	4004	3312	2627	2168	1991	1836	1788
52.0	2629	3523	4171	4053	3285	2556	2094	1853	1717	1689
54.0	2667	3618	4276	4105	3240	2484	2003	1729	1590	1572
56.0	2716	3714	4388	4148	3180	2382	1879	1593	1441	1423
58.0	2777	3813	4480	4167	3094	2240	1707	1425	1265	1242
60.0	2822	3911	4564	4153	2975	2028	1484	1231	1068	1044
62.0	2865	4030	4614	4112	2796	1760	1235	1018	862.7	838.8
64.0	2870	4109	4631	4031	2553	1439	986.2	803.7	656.4	642.5
66.0	2883	4142	4602	3927	2254	1125	755.9	581.1	428.6	432.2
68.0	2852	4120	4468	3756	1916	817.4	544.0	358.0	269.2	270.6
70.0	2758	3981	4223	3475	1476	559.1	357.5	276.4	221.2	219.9
72.0	2567	3753	3823	3046	1074	382.3	238.2	194.8	168.3	170.3
74.0	2174	3320	3268	2361	673.5	283.3	183.2	145.0	132.9	129.1
76.0	1658	2479	2652	1675	512.7	222.3	135.0	111.8	97.64	101.4
78.0	1049	1639	1825	920.1	441.9	173.1	94.65	84.12	72.05	72.97
80.0	439.7	660.2	1065	421.4	364.5	121.0	65.13	57.97	51.87	53.13
82.0	184.1	365.7	305.9	246.2	209.9	73.71	41.91	35.64	33.90	33.66
84.0	52.98	72.28	160.1	71.88	111.8	34.25	22.34	19.74	18.77	5.653
86.0	16.53	16.71	16.06	14.66	13.92	9.413	8.075	8.355	8.031	1.429
88.0	9.984	8.201	5.929	4.346	3.052	2.461	2.280	2.504	2.505	1.087
90.0	10.07	7.739	5.413	3.716	2.603	1.994	1.723	1.570	1.404	1.135
92.0	10.96	8.385	5.830	3.952	2.759	2.107	1.808	1.633	1.498	1.296
94.0	11.80	9.018	6.250	4.207	2.914	2.228	1.933	1.784	1.680	1.517
96.0	12.64	9.618	6.695	4.515	3.151	2.439	2.125	1.973	1.888	1.806
98.0	13.52	10.31	7.196	4.872	3.416	2.658	2.329	2.156	2.074	1.997
100.0	14.35	10.98	7.692	5.225	3.675	2.885	2.528	2.341	2.264	2.202
102.0	15.12	11.63	8.178	5.566	3.952	3.108	2.717	2.523	2.448	2.403
104.0	15.82	12.25	8.648	5.920	4.223	3.323	2.909	2.700	2.634	2.604
106.0	16.45	12.80	9.061	6.239	4.471	3.527	3.109	2.878	2.821	2.800
108.0	16.98	13.27	9.407	6.518	4.713	3.734	3.298	3.056	2.997	3.004
110.0	17.40	13.65	9.730	6.790	4.965	3.956	3.481	3.239	3.199	3.205
112.0	17.72	13.99	10.06	7.096	5.246	4.184	3.658	3.427	3.398	3.405
114.0	18.04	14.35	10.43	7.439	5.531	4.405	3.835	3.613	3.596	3.613
116.0	18.37	14.72	10.83	7.817	5.827	4.620	4.003	3.803	3.799	3.823
118.0	18.68	15.08	11.25	8.181	6.114	4.820	4.172	3.986	3.994	4.023
120.0	18.91	15.39	11.61	8.524	6.387	5.023	4.329	4.159	4.185	4.211
122.0	19.05	15.63	11.91	8.830	6.636	5.223	4.493	4.333	4.364	4.391
124.0	19.10	15.79	12.17	9.105	6.878	5.406	4.666	4.511	4.527	4.551
126.0	19.07	15.88	12.37	9.318	7.098	5.601	4.847	4.689	4.690	4.712
128.0	18.91	15.89	12.52	9.508	7.292	5.813	5.055	4.868	4.845	4.864
130.0	18.66	15.84	12.62	9.670	7.471	6.043	5.270	5.057	5.000	5.018
132.0	18.38	15.72	12.67	9.806	7.670	6.273	5.482	5.251	5.167	5.173
134.0	18.09	15.60	12.69	9.931	7.892	6.516	5.717	5.436	5.325	5.309
136.0	17.79	15.46	12.70	10.09	8.124	6.767	5.971	5.642	5.489	5.454
138.0	17.46	15.29	12.74	10.29	8.372	7.029	6.242	5.872	5.679	5.619
140.0	17.17	15.18	12.82	10.49	8.629	7.306	6.520	6.117	5.890	5.811
142.0	16.93	15.10	12.90	10.69	8.906	7.607	6.812	6.386	6.133	6.040
144.0	16.69	15.01	12.97	10.91	9.196	7.944	7.113	6.687	6.407	6.301
146.0	16.48	14.94	13.06	11.14	9.516	8.307	7.418	7.021	6.717	6.613

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:52.6-MIN:42.7%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-2-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	16.30	14.89	13.16	11.40	9.861	8.693	7.756	7.385	7.070	6.970
150.0	16.14	14.87	13.28	11.68	10.23	9.078	8.112	7.764	7.452	7.358
152.0	16.06	14.91	13.47	11.99	10.59	9.469	8.488	8.190	7.881	7.785
154.0	16.08	15.00	13.67	12.28	10.95	9.874	8.885	8.638	8.341	8.249
156.0	16.09	15.07	13.85	12.57	11.30	10.29	9.293	9.124	8.839	8.746
158.0	16.09	15.14	14.03	12.84	11.66	10.71	9.726	9.626	9.365	9.275
160.0	16.09	15.21	14.20	13.10	12.05	11.16	10.21	10.16	9.914	9.825
162.0	16.08	15.28	14.37	13.37	12.44	11.64	10.72	10.73	10.49	10.42
164.0	16.09	15.38	14.57	13.69	12.86	12.16	11.26	11.33	11.12	11.05
166.0	16.12	15.52	14.80	14.02	13.29	12.69	11.82	11.95	11.75	11.70
168.0	16.20	15.69	15.06	14.37	13.74	13.22	12.41	12.60	12.40	12.36
170.0	16.32	15.91	15.34	14.74	14.20	13.76	13.02	13.25	13.07	13.03
172.0	16.48	16.13	15.65	15.12	14.66	14.30	13.62	13.89	13.73	13.70
174.0	16.68	16.40	15.94	15.49	15.12	14.85	14.21	14.53	14.38	14.35
176.0	16.92	16.67	16.23	15.89	15.59	15.37	14.80	15.14	15.01	15.01
178.0	17.07	16.84	16.49	16.25	16.02	15.86	15.37	15.69	15.59	15.64
180.0	17.16	16.98	16.73	16.61	16.44	16.35	15.91	16.23	16.16	16.26

G/C	100.0	110.0	120.0	130.0	140.0	150.0	160.0	170.0	180.0	190.0
0.0	1839	1839	1839	1839	1839	1839	1839	1839	1839	1839
2.0	1941	1938	1932	1921	1911	1898	1879	1858	1839	1821
4.0	2014	2009	2002	1987	1972	1945	1914	1875	1837	1804
6.0	2081	2073	2057	2039	2017	1987	1944	1891	1836	1784
8.0	2157	2147	2123	2093	2059	2021	1970	1905	1835	1763
10.0	2219	2214	2187	2155	2103	2054	1994	1918	1832	1742
12.0	2276	2266	2243	2212	2153	2083	2017	1932	1833	1721
14.0	2315	2310	2295	2263	2209	2128	2039	1948	1835	1702
16.0	2359	2352	2340	2320	2270	2178	2066	1965	1839	1692
18.0	2420	2408	2389	2374	2332	2237	2099	1982	1847	1683
20.0	2487	2473	2456	2433	2395	2298	2137	1999	1855	1673
22.0	2575	2563	2532	2504	2469	2368	2186	2020	1867	1659
24.0	2667	2661	2648	2605	2562	2454	2252	2047	1876	1652
26.0	2709	2736	2764	2744	2709	2572	2333	2090	1899	1642
28.0	2627	2736	2845	2883	2857	2706	2440	2144	1931	1639
30.0	2497	2638	2825	2985	3025	2900	2584	2212	1967	1636
32.0	2388	2540	2760	3009	3152	3107	2763	2298	2014	1640
34.0	2316	2476	2702	2997	3241	3284	2965	2410	2073	1653
36.0	2266	2429	2677	2982	3292	3443	3174	2547	2132	1661
38.0	2229	2403	2663	2975	3341	3584	3360	2698	2205	1678
40.0	2209	2378	2647	2994	3389	3707	3555	2859	2290	1699
42.0	2182	2340	2616	3005	3444	3812	3741	3039	2390	1729
44.0	2129	2283	2576	3009	3511	3918	3889	3237	2520	1778
46.0	2080	2215	2510	2992	3564	4026	3965	3430	2681	1862
48.0	2021	2163	2437	2964	3603	4117	4010	3501	2832	1993
50.0	1911	2119	2360	2921	3620	4197	4057	3380	2681	1941
52.0	1790	2039	2287	2868	3618	4255	4082	3292	2539	1804
54.0	1660	1901	2217	2802	3600	4322	4184	3342	2519	1765
56.0	1520	1757	2122	2727	3576	4413	4307	3437	2550	1769
58.0	1346	1600	1986	2619	3529	4483	4425	3546	2605	1785
60.0	1150	1415	1801	2484	3463	4536	4534	3652	2667	1815
62.0	953.7	1204	1564	2277	3357	4562	4631	3752	2726	1843
64.0	749.3	983.7	1297	1989	3224	4549	4730	3869	2788	1910
66.0	515.2	758.0	1019	1659	3028	4491	4803	3970	2810	1938
68.0	306.1	514.9	758.7	1306	2771	4403	4815	4090	2839	1951
70.0	238.0	313.9	530.8	944.7	2454	4265	4771	4161	2837	1947
72.0	185.3	247.4	351.6	635.2	2021	4053	4599	4117	2786	1918
74.0	136.8	181.1	242.3	434.2	1455	3701	4260	3936	2637	1828
76.0	105.2	135.8	185.6	329.9	949.4	3131	3705	3474	2234	1560
78.0	79.32	102.1	137.5	266.8	683.2	2342	2968	2598	1702	1192
80.0	59.68	72.89	97.51	207.1	586.5	1388	2047	1722	1025	824.5
82.0	40.52	46.81	66.08	137.4	449.5	582.0	1215	755.7	490.9	471.0
84.0	23.72	27.50	40.85	78.17	244.7	324.8	383.8	412.8	273.6	213.9
86.0	10.90	13.27	19.28	33.11	128.5	67.77	200.5	70.85	57.11	62.09
88.0	3.489	4.424	5.519	7.422	12.40	14.35	17.75	15.51	14.52	15.77
90.0	1.503	1.753	1.951	2.316	3.039	4.268	5.842	7.819	8.604	10.04
92.0	1.493	1.626	1.773	2.043	2.566	3.531	5.141	7.317	8.571	10.25
94.0	1.668	1.755	1.893	2.189	2.765	3.827	5.621	8.076	9.568	11.46
96.0	1.862	1.940	2.070	2.379	3.015	4.178	6.175	8.880	10.58	12.70
98.0	2.049	2.127	2.264	2.603	3.316	4.626	6.807	9.728	11.66	13.96
100.0	2.243	2.323	2.474	2.826	3.621	5.083	7.464	10.62	12.69	15.13
102.0	2.435	2.513	2.675	3.052	3.916	5.512	8.122	11.50	13.62	16.12
104.0	2.623	2.707	2.882	3.284	4.205	5.916	8.757	12.36	14.44	16.95
106.0	2.808	2.884	3.076	3.514	4.489	6.305	9.327	13.15	15.17	17.68
108.0	2.992	3.069	3.277	3.733	4.757	6.672	9.830	13.83	15.77	18.29
110.0	3.177	3.243	3.479	3.965	5.029	7.017	10.29	14.39	16.24	18.78

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:52.6-MIN:42.7%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-2-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	3.377	3.421	3.673	4.204	5.313	7.354	10.71	14.87	16.65	19.17
114.0	3.578	3.602	3.859	4.462	5.604	7.705	11.11	15.29	17.01	19.51
116.0	3.779	3.787	4.037	4.694	5.921	8.070	11.53	15.69	17.40	19.85
118.0	3.970	3.961	4.197	4.908	6.228	8.430	11.90	16.02	17.82	20.16
120.0	4.156	4.117	4.342	5.098	6.499	8.730	12.18	16.21	18.19	20.35
122.0	4.321	4.279	4.492	5.269	6.711	8.946	12.33	16.26	18.48	20.44
124.0	4.480	4.445	4.629	5.423	6.877	9.088	12.38	16.15	18.69	20.46
126.0	4.633	4.606	4.790	5.573	7.007	9.194	12.34	15.98	18.84	20.41
128.0	4.786	4.784	4.972	5.727	7.141	9.275	12.27	15.74	18.96	20.36
130.0	4.935	4.956	5.166	5.898	7.271	9.324	12.17	15.44	19.08	20.31
132.0	5.079	5.125	5.372	6.095	7.388	9.369	12.06	15.11	19.17	20.28
134.0	5.212	5.287	5.573	6.340	7.564	9.430	11.95	14.78	19.20	20.26
136.0	5.359	5.464	5.796	6.590	7.790	9.527	11.85	14.46	19.18	20.17
138.0	5.520	5.639	6.026	6.837	8.050	9.670	11.77	14.16	19.09	20.04
140.0	5.701	5.840	6.277	7.089	8.294	9.858	11.75	13.93	18.93	19.86
142.0	5.918	6.079	6.541	7.345	8.534	10.06	11.79	13.75	18.72	19.65
144.0	6.186	6.358	6.822	7.608	8.753	10.21	11.82	13.61	18.49	19.42
146.0	6.517	6.682	7.128	7.895	8.975	10.34	11.83	13.45	18.27	19.14
148.0	6.883	7.045	7.478	8.206	9.210	10.48	11.85	13.34	18.07	18.88
150.0	7.281	7.449	7.851	8.540	9.495	10.64	11.88	13.24	17.89	18.65
152.0	7.717	7.889	8.278	8.921	9.803	10.84	11.98	13.22	17.75	18.46
154.0	8.177	8.352	8.720	9.325	10.14	11.11	12.15	13.31	17.68	18.35
156.0	8.674	8.836	9.196	9.741	10.49	11.41	12.39	13.48	17.66	18.30
158.0	9.203	9.361	9.679	10.17	10.84	11.70	12.66	13.68	17.61	18.24
160.0	9.753	9.900	10.17	10.60	11.19	11.98	12.90	13.87	17.53	18.13
162.0	10.36	10.49	10.69	11.04	11.55	12.26	13.12	14.02	17.43	17.97
164.0	11.00	11.09	11.23	11.51	11.93	12.56	13.34	14.18	17.37	17.84
166.0	11.65	11.70	11.77	12.00	12.37	12.91	13.59	14.36	17.30	17.70
168.0	12.30	12.32	12.34	12.52	12.84	13.29	13.87	14.57	17.22	17.54
170.0	12.96	12.94	12.94	13.08	13.34	13.73	14.19	14.79	17.19	17.41
172.0	13.61	13.60	13.56	13.66	13.87	14.17	14.53	15.06	17.19	17.31
174.0	14.25	14.26	14.23	14.28	14.44	14.67	14.92	15.38	17.22	17.24
176.0	14.95	14.99	14.96	14.99	15.07	15.23	15.38	15.74	17.25	17.18
178.0	15.62	15.68	15.65	15.64	15.65	15.72	15.78	16.02	17.21	17.10
180.0	16.29	16.37	16.33	16.31	16.24	16.21	16.14	16.28	17.17	16.97

G/C	200.0	210.0	220.0	230.0	240.0	250.0	260.0	270.0	280.0	290.0
0.0	1839	1839	1839	1839	1839	1839	1839	1839	1839	1839
2.0	1804	1786	1768	1751	1735	1718	1711	1705	1709	1713
4.0	1763	1723	1685	1644	1611	1580	1561	1554	1556	1569
6.0	1722	1656	1593	1531	1475	1427	1399	1387	1395	1415
8.0	1675	1586	1496	1405	1333	1272	1238	1227	1238	1263
10.0	1629	1511	1394	1283	1198	1152	1107	1098	1108	1135
12.0	1583	1435	1292	1171	1087	1032	1005	998.6	1008	1036
14.0	1542	1363	1199	1074	999.0	950.0	926.8	925.0	930.7	954.9
16.0	1499	1294	1119	999.0	927.1	897.6	889.7	893.8	897.4	911.8
18.0	1459	1228	1049	933.5	882.7	870.1	861.1	861.4	867.5	882.0
20.0	1417	1165	986.5	884.1	856.5	837.6	827.5	827.9	831.6	848.9
22.0	1375	1104	928.7	855.5	826.8	804.4	794.4	795.8	798.5	816.0
24.0	1331	1050	882.2	828.0	795.8	773.0	762.9	764.6	766.4	783.7
26.0	1289	999.1	848.2	801.9	764.8	744.0	733.9	736.6	739.6	754.8
28.0	1245	949.1	822.1	774.1	738.9	718.0	706.0	707.5	712.7	728.4
30.0	1204	905.0	796.7	747.4	713.8	692.8	680.3	680.8	687.2	703.5
32.0	1168	868.2	773.9	723.9	690.0	668.1	655.0	654.5	662.2	680.8
34.0	1139	837.2	753.4	701.5	666.4	644.4	630.0	629.9	638.8	656.5
36.0	1119	817.5	734.6	681.5	643.7	622.2	607.3	606.5	617.9	634.9
38.0	1103	804.0	720.5	664.2	623.1	603.9	588.5	590.4	601.7	617.7
40.0	1093	796.1	709.9	648.2	604.6	590.4	575.7	577.9	590.0	602.6
42.0	1088	790.8	702.2	630.6	585.6	575.9	567.1	572.3	581.9	593.9
44.0	1094	788.1	692.8	615.9	572.1	568.7	566.4	573.4	578.4	585.5
46.0	1104	791.9	685.5	604.3	567.5	568.0	573.2	580.5	582.6	589.2
48.0	1163	811.3	681.0	594.1	578.2	572.8	576.8	588.4	590.1	601.0
50.0	1187	874.2	679.1	593.6	595.3	585.2	595.3	605.2	599.9	610.8
52.0	1062	827.8	720.8	595.0	617.9	596.4	597.8	594.7	588.8	613.8
54.0	1013	718.5	692.3	607.6	631.2	585.6	569.9	563.1	559.8	600.6
56.0	1003	664.8	592.1	635.3	625.7	583.3	542.0	531.9	540.6	613.8
58.0	1012	632.1	542.4	565.1	611.3	592.8	519.5	507.0	521.0	626.5
60.0	1024	608.1	507.8	506.0	618.5	546.3	479.1	470.2	478.3	589.2
62.0	1039	591.0	476.8	467.7	555.8	489.4	435.6	428.3	434.6	532.4
64.0	1071	583.6	447.7	435.2	488.1	435.1	395.3	392.8	395.3	469.9
66.0	1088	592.8	426.4	400.5	436.4	386.2	351.6	347.5	351.4	401.6
68.0	1091	585.1	410.4	365.8	386.3	345.0	312.0	309.0	311.8	352.3
70.0	1099	572.2	382.5	328.2	339.9	305.7	279.7	277.5	277.8	310.9
72.0	1100	562.9	351.6	287.0	293.6	269.2	230.8	238.0	228.0	273.4
74.0	1083	561.3	324.5	245.3	252.7	232.7	181.9	168.0	178.2	223.3

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:52.6-MIN:42.7%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-2-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	955.0	517.4	296.7	204.5	207.3	169.9	129.8	126.8	127.5	163.5
78.0	713.9	393.1	272.9	167.2	161.4	126.5	93.43	85.95	91.15	118.8
80.0	448.2	249.6	212.9	126.0	114.1	83.14	62.54	57.24	60.59	74.16
82.0	267.5	148.4	130.1	84.73	69.72	53.71	37.49	33.94	34.99	43.85
84.0	87.37	69.42	62.74	49.56	36.19	29.23	19.68	17.03	17.65	20.27
86.0	27.32	26.72	25.58	17.45	15.16	10.55	6.940	3.179	6.147	6.218
88.0	12.85	10.92	8.928	5.622	4.307	2.878	1.486	1.557	1.721	2.268
90.0	10.08	8.824	6.576	4.266	2.631	1.598	1.149	1.120	1.334	1.802
92.0	10.49	9.333	6.916	4.431	2.552	1.739	1.459	1.446	1.628	2.159
94.0	11.78	10.62	8.060	5.341	3.206	2.224	1.876	1.859	2.072	2.724
96.0	13.12	11.99	9.325	6.376	3.972	2.793	2.367	2.341	2.592	3.371
98.0	14.49	13.36	10.58	7.448	4.820	3.442	2.928	2.899	3.180	4.088
100.0	15.70	14.55	11.73	8.533	5.720	4.165	3.553	3.515	3.836	4.861
102.0	16.69	15.50	12.78	9.593	6.673	4.941	4.246	4.207	4.548	5.677
104.0	17.49	16.31	13.71	10.59	7.644	5.755	4.990	4.937	5.305	6.521
106.0	18.21	17.02	14.50	11.49	8.606	6.597	5.757	5.704	6.071	7.366
108.0	18.83	17.60	15.17	12.31	9.530	7.446	6.550	6.489	6.869	8.201
110.0	19.35	18.12	15.77	13.08	10.40	8.282	7.363	7.280	7.660	9.008
112.0	19.79	18.60	16.41	13.82	11.19	9.108	8.163	8.071	8.447	9.775
114.0	20.15	19.11	17.07	14.55	11.95	9.896	8.969	8.868	9.248	10.55
116.0	20.50	19.61	17.71	15.23	12.68	10.69	9.766	9.654	10.04	11.33
118.0	20.75	20.01	18.24	15.85	13.39	11.49	10.58	10.46	10.87	12.12
120.0	20.87	20.23	18.63	16.43	14.12	12.30	11.41	11.27	11.71	12.95
122.0	20.85	20.28	18.86	16.93	14.83	13.13	12.24	12.11	12.56	13.78
124.0	20.73	20.12	18.94	17.32	15.51	13.95	13.10	12.97	13.44	14.66
126.0	20.55	19.84	18.86	17.60	16.11	14.75	13.93	13.83	14.30	15.52
128.0	20.35	19.53	18.71	17.79	16.62	15.51	14.76	14.68	15.16	16.34
130.0	20.09	19.18	18.50	17.92	17.05	16.17	15.50	15.46	15.93	17.10
132.0	19.83	18.86	18.26	18.00	17.38	16.70	16.14	16.14	16.62	17.76
134.0	19.68	18.63	18.09	18.00	17.59	17.13	16.70	16.74	17.23	18.33
136.0	19.57	18.50	18.02	17.99	17.77	17.47	17.17	17.25	17.75	18.81
138.0	19.49	18.51	18.05	18.01	17.91	17.73	17.56	17.69	18.20	19.21
140.0	19.44	18.56	18.10	18.03	18.04	17.96	17.88	18.06	18.58	19.55
142.0	19.37	18.58	18.15	18.11	18.13	18.15	18.16	18.39	18.90	19.85
144.0	19.22	18.56	18.17	18.19	18.19	18.33	18.42	18.68	19.16	20.08
146.0	18.99	18.47	18.19	18.26	18.23	18.48	18.63	18.91	19.37	20.24
148.0	18.81	18.41	18.24	18.34	18.27	18.61	18.81	19.09	19.53	20.35
150.0	18.64	18.37	18.27	18.34	18.27	18.69	18.95	19.25	19.66	20.39
152.0	18.52	18.35	18.29	18.32	18.25	18.74	19.04	19.37	19.74	20.39
154.0	18.45	18.35	18.27	18.28	18.19	18.73	19.05	19.42	19.77	20.34
156.0	18.44	18.35	18.24	18.24	18.11	18.66	18.99	19.38	19.71	20.23
158.0	18.42	18.35	18.24	18.21	18.03	18.56	18.88	19.28	19.57	20.05
160.0	18.31	18.30	18.20	18.17	17.94	18.43	18.71	19.09	19.35	19.80
162.0	18.16	18.18	18.11	18.10	17.83	18.25	18.50	18.83	19.08	19.47
164.0	18.04	18.11	18.08	18.09	17.80	18.16	18.33	18.61	18.82	19.15
166.0	17.90	18.01	18.01	18.05	17.74	18.08	18.20	18.44	18.60	18.89
168.0	17.71	17.83	17.84	17.86	17.61	17.97	18.04	18.25	18.36	18.59
170.0	17.54	17.66	17.64	17.68	17.44	17.81	17.86	18.02	18.11	18.28
172.0	17.40	17.47	17.45	17.49	17.24	17.61	17.66	17.82	17.86	18.00
174.0	17.27	17.28	17.26	17.29	17.00	17.37	17.41	17.55	17.58	17.70
176.0	17.12	17.10	17.05	17.03	16.70	17.05	17.07	17.20	17.22	17.32
178.0	16.94	16.87	16.77	16.71	16.35	16.67	16.65	16.79	16.81	16.89
180.0	16.74	16.60	16.44	16.33	15.92	16.22	16.16	16.26	16.29	16.36

G/C	300.0	310.0	320.0	330.0	340.0	350.0
0.0	1839	1839	1839	1839	1839	1839
2.0	1723	1735	1756	1776	1798	1820
4.0	1591	1620	1664	1705	1751	1799
6.0	1453	1502	1566	1637	1710	1780
8.0	1312	1379	1466	1561	1660	1760
10.0	1188	1262	1367	1490	1620	1744
12.0	1087	1160	1274	1420	1577	1733
14.0	1006	1078	1193	1352	1541	1722
16.0	937.6	1006	1122	1293	1506	1716
18.0	901.0	944.2	1057	1232	1467	1705
20.0	873.4	902.7	996.4	1173	1431	1700
22.0	843.5	874.8	944.1	1119	1392	1693
24.0	812.3	847.7	899.1	1065	1350	1687
26.0	784.5	819.3	866.3	1014	1309	1686
28.0	755.2	792.3	839.1	966.5	1272	1693
30.0	729.3	765.8	814.5	925.6	1245	1706
32.0	705.4	743.2	792.6	892.5	1223	1723
34.0	683.4	723.5	775.6	869.7	1210	1749
36.0	660.2	705.7	763.7	857.9	1206	1783
38.0	638.4	688.3	755.6	856.7	1214	1825

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:52.6-MIN:42.7%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-2-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	619.4	672.1	751.1	863.5	1235	1894
42.0	602.6	655.5	753.4	879.9	1273	1993
44.0	592.7	643.4	757.2	913.8	1336	2146
46.0	590.8	637.5	771.8	970.9	1424	2284
48.0	598.8	640.7	810.3	1021	1395	2167
50.0	620.5	660.8	856.0	924.2	1271	2043
52.0	632.6	707.6	766.8	818.5	1220	2009
54.0	636.8	699.2	658.7	762.7	1212	2014
56.0	641.9	607.7	602.3	728.3	1216	2043
58.0	617.8	541.4	564.0	700.4	1226	2073
60.0	554.5	499.8	532.4	683.4	1240	2116
62.0	510.4	467.6	503.9	678.6	1266	2175
64.0	462.7	434.1	481.6	684.4	1285	2193
66.0	414.1	399.3	465.1	669.2	1287	2177
68.0	367.3	358.6	435.6	663.5	1299	2152
70.0	319.3	309.7	406.3	661.1	1297	2071
72.0	271.6	262.7	377.4	647.2	1253	1905
74.0	223.5	223.3	346.2	561.5	1083	1583
76.0	177.9	185.6	299.2	394.3	787.9	1206
78.0	131.4	146.0	215.4	248.0	507.6	802.7
80.0	82.98	109.7	131.8	143.2	310.0	425.7
82.0	46.84	65.61	67.38	58.75	113.2	181.9
84.0	21.50	24.07	31.63	25.17	33.87	55.81
86.0	6.581	7.126	10.31	11.66	13.92	16.39
88.0	3.056	4.730	7.069	9.462	10.81	10.69
90.0	2.838	4.902	7.542	10.13	11.40	11.10
92.0	3.411	5.759	8.677	11.42	12.75	12.38
94.0	4.171	6.740	9.832	12.69	14.06	13.63
96.0	5.025	7.796	11.06	14.03	15.39	14.89
98.0	5.928	8.859	12.20	15.22	16.64	16.14
100.0	6.866	9.871	13.21	16.18	17.67	17.22
102.0	7.828	10.84	14.10	16.99	18.53	18.14
104.0	8.784	11.73	14.86	17.70	19.30	18.95
106.0	9.697	12.56	15.54	18.33	19.98	19.63
108.0	10.57	13.37	16.18	18.93	20.57	20.16
110.0	11.40	14.17	16.88	19.52	21.07	20.61
112.0	12.20	15.00	17.66	20.16	21.55	20.99
114.0	12.98	15.84	18.49	20.85	22.03	21.32
116.0	13.76	16.67	19.34	21.53	22.45	21.56
118.0	14.53	17.51	20.15	22.15	22.74	21.65
120.0	15.32	18.31	20.90	22.63	22.89	21.59
122.0	16.10	19.06	21.56	22.99	22.91	21.42
124.0	16.91	19.75	22.11	23.23	22.80	21.11
126.0	17.67	20.34	22.55	23.37	22.60	20.72
128.0	18.35	20.86	22.94	23.45	22.34	20.28
130.0	18.93	21.34	23.20	23.48	22.11	19.88
132.0	19.42	21.74	23.32	23.42	21.88	19.53
134.0	19.84	22.04	23.36	23.25	21.60	19.20
136.0	20.22	22.21	23.32	23.01	21.23	18.82
138.0	20.56	22.29	23.21	22.72	20.86	18.43
140.0	20.83	22.30	23.04	22.41	20.54	18.09
142.0	21.06	22.29	22.81	22.09	20.24	17.80
144.0	21.22	22.24	22.57	21.79	19.96	17.53
146.0	21.27	22.16	22.30	21.44	19.65	17.25
148.0	21.26	22.05	22.06	21.13	19.42	17.07
150.0	21.18	21.88	21.79	20.83	19.19	16.94
152.0	21.03	21.63	21.50	20.54	19.00	16.91
154.0	20.85	21.31	21.18	20.25	18.85	16.92
156.0	20.65	20.96	20.79	19.96	18.68	16.97
158.0	20.40	20.60	20.38	19.65	18.54	17.05
160.0	20.09	20.20	19.96	19.33	18.35	17.04
162.0	19.70	19.79	19.53	18.99	18.12	16.94
164.0	19.37	19.43	19.18	18.71	17.95	16.90
166.0	19.06	19.08	18.87	18.39	17.73	16.84
168.0	18.69	18.70	18.48	18.06	17.48	16.75
170.0	18.35	18.33	18.11	17.72	17.25	16.67
172.0	18.04	17.99	17.77	17.41	17.03	16.63
174.0	17.72	17.65	17.43	17.14	16.84	16.59
176.0	17.31	17.26	17.08	16.86	16.62	16.53
178.0	16.87	16.82	16.68	16.55	16.40	16.44
180.0	16.34	16.31	16.24	16.20	16.14	16.28

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:52.6-MIN:42.7%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-2-A KAYRA II 24 LED
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII