ANEXO 26-0235-1-A KAYRA II 24 LED 40W

Driver XITANIUM 100W 1.1A 0-10V

MOD 2X6 /740 5050 DA UHE

Lentes: RA10MIII

Corriente de programación: 506mA



Light Output Ratio:	100.0%		
Luminaire Power:	40.2 W		
I80 =	52.8 cd per klm.	I88 =	1.2 cd per klm.
I90 =	1.2 cd per klm.	I80/I88 =	45.301

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

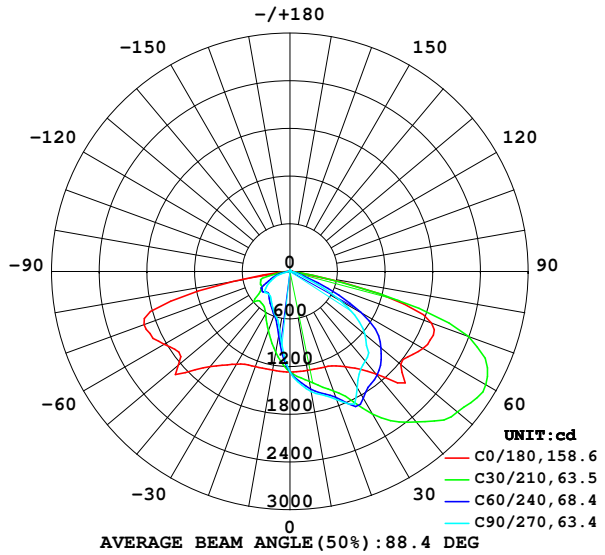
γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:52.8-MIN:43.6%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-1-A KAYRA II 24 LED
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:220.10V I:0.1890A P:40.197W PF:0.9663 Freq:60.01Hz Lamp Flux:5923.9x1 lm		
NAME: ANEXO 26-0235-1-A KAYRA II 24 LED 40W	TYPE:ALUMBRADO PUBLICO	WEIGHT:----
SPEC.:24 LED 40W	DIM.: ----	SERIAL No.:26-0235-1
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----

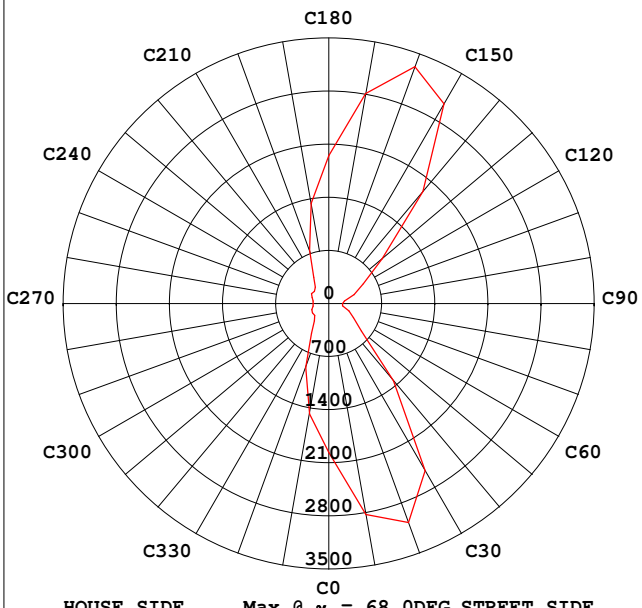
DATA OF LAMP		PHOTOMETRIC DATA Eff: 147.37 lm/W			
MODEL	2X6/740 5050	Imax(cd)	3322	η street_up(%)	0.3
NOMINAL POWER(W)	40	LOR(%)	100.0	η street_down(%)	72.1
RATED VOLTAGE(V)	---	TOTAL FLUX(lm)	5924	η house_up(%)	0.6
NOMINAL FLUX(lm)	5923.9	MAXIMUM @(C,γ)	160,68.0	η house_down(%)	27.1
LAMPS INSIDE	1	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



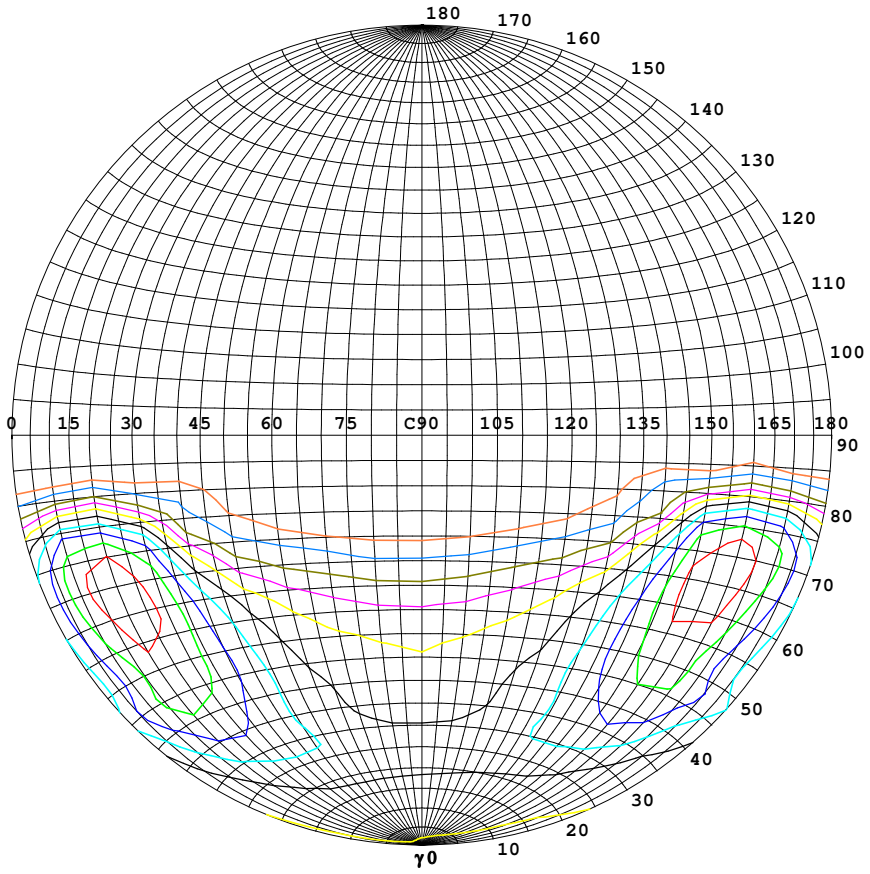
HOUSE SIDE Max @ γ = 68.0DEG STREET SIDE

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:52.8-MIN:43.6%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-1-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:220.10V I:0.1890A P:40.197W PF:0.9663 Freq:60.01Hz Lamp Flux:5923.9x1 lm		
NAME: ANEXO 26-0235-1-A KAYRA II 24 LED 40W	TYPE:ALUMBRADO PUBLICO	WEIGHT:----
SPEC.:24 LED 40W	DIM.: ----	SERIAL No.:26-0235-1
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.At80:242.5cd/klm
Max.At90:1.334cd/klm
Max.80-90:242.5cd/klm
NRB 5101:Semi limited[12.5%]

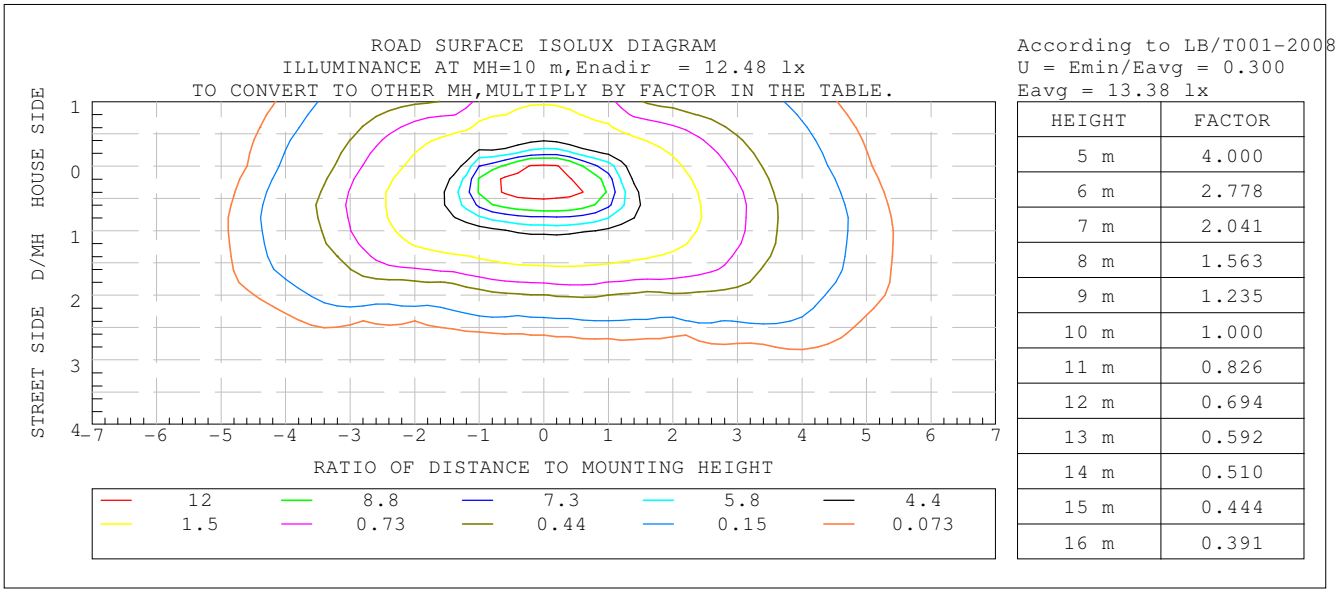
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	3322
90%	2989
80%	2657
70%	2325
60%	1993
50%	1661
40%	1329
30%	996
20%	664
10%	332
5%	166

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:52.8-MIN:43.6%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-1-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 = 13.38 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:52.8-MIN:43.6%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-1-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:220.10V I:0.1890A P:40.197W PF:0.9663 Freq:60.01Hz Lamp Flux:5923.9x1 lm		
NAME: ANEXO 26-0235-1-A KAYRA II 24 LED 40W	TYPE:ALUMBRADO PUBLICO	WEIGHT:----
SPEC.:24 LED 40W	DIM.: ----	SERIAL No.:26-0235-1
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	1265	1464	1537	1466	1262	921.5	753.5	905.9	0- 10	116.9	116.9	1.97,1.97
20	1283	1663	1714	1659	1274	641.2	566.8	652.3	10- 20	334.2	451.1	7.62,7.62
30	1384	2031	1694	2058	1349	526.9	465.5	540.7	20- 30	565.7	1017	17.2,17.2
40	1684	2068	1474	2193	1565	462.0	395.1	485.4	30- 40	799.3	1816	30.7,30.7
50	1819	2047	1230	2256	1840	433.5	414.8	519.5	40- 50	1045	2861	48.3,48.3
60	1934	1728	723.7	2054	1832	347.4	320.1	353.4	50- 60	1158	4019	67.9,67.9
70	1898	710.1	151.8	1189	1956	244.6	188.0	246.0	60- 70	1091	5111	86.3,86.3
80	312.7	167.4	36.35	277.1	725.4	116.7	39.71	83.78	70- 80	688.2	5799	97.9,97.9
90	6.973	1.584	0.7733	1.828	5.935	3.769	0.7663	4.324	80- 90	75.19	5874	99.2,99.2
100	9.887	2.253	1.499	2.211	8.730	6.991	2.425	7.992	90-100	4.552	5879	99.2,99.2
110	11.97	3.054	2.183	3.081	11.15	9.946	5.021	10.72	100-110	6.645	5885	99.3,99.3
120	12.97	3.902	2.876	3.974	12.44	12.09	7.760	13.53	110-120	7.888	5893	99.5,99.5
130	12.79	4.630	3.421	4.512	13.06	12.53	10.63	15.33	120-130	8.195	5901	99.6,99.6
140	11.77	5.458	3.967	5.276	12.98	12.43	12.42	15.59	130-140	7.487	5909	99.7,99.7
150	11.08	6.614	5.044	6.190	12.28	12.59	13.24	15.00	140-150	6.256	5915	99.9,99.9
160	11.04	7.954	6.747	7.489	12.03	12.51	13.13	13.80	150-160	4.762	5920	99.9,99.9
170	11.21	9.592	8.945	9.078	11.80	12.15	12.39	12.52	160-170	3.019	5923	100,100
180	11.79	11.25	11.17	11.18	11.79	11.26	11.16	11.18	170-180	1.054	5924	100,100
DEG	LUMINOUS INTENSITY:cd Less than 35% Percent = 13.0 %									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:52.8-MIN:43.6%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-1-A KAYRA II 24 LED
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

ISOCANDELA DIAGRAM

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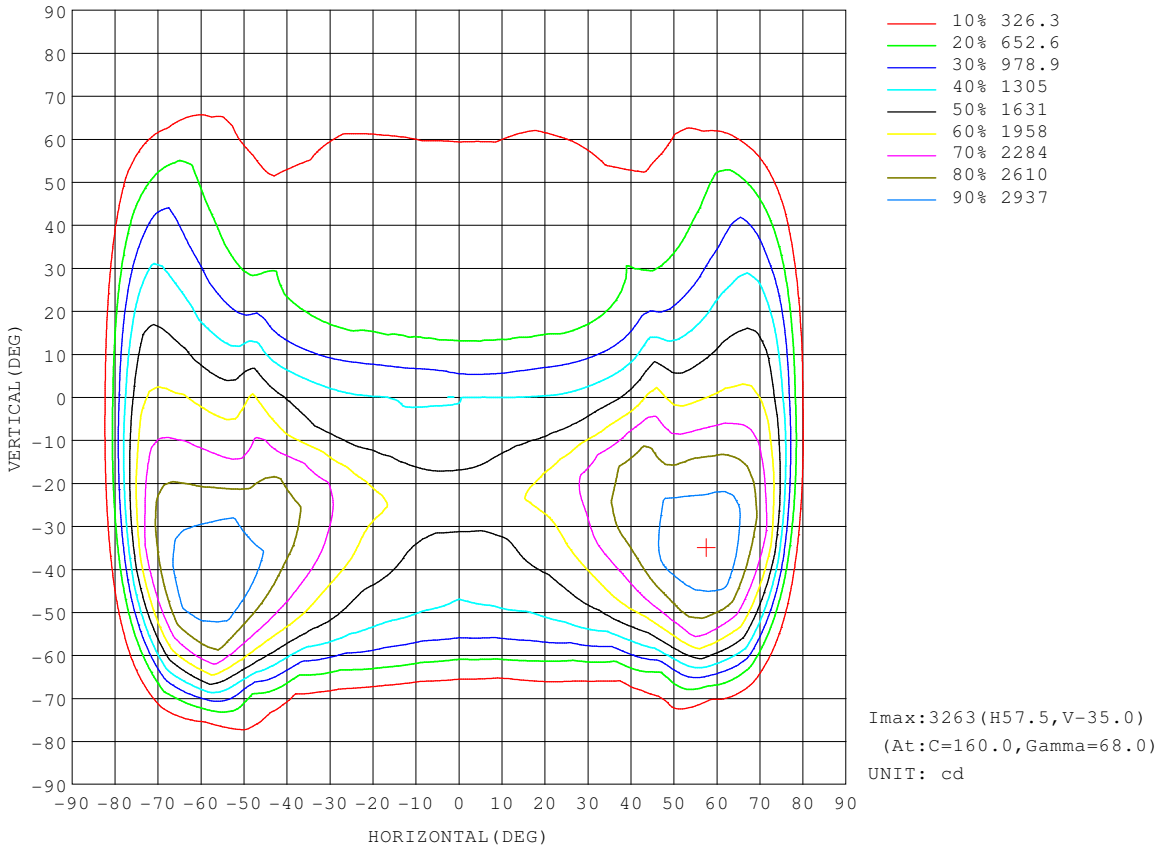
NAME: ANEXO 26-0235-1-A KAYRA II 24 LED 40W	TYPE:ALUMBRADO PUBLICO	WEIGHT:----
SPEC.:24 LED 40W	DIM.: ----	SERIAL No.:26-0235-1
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----



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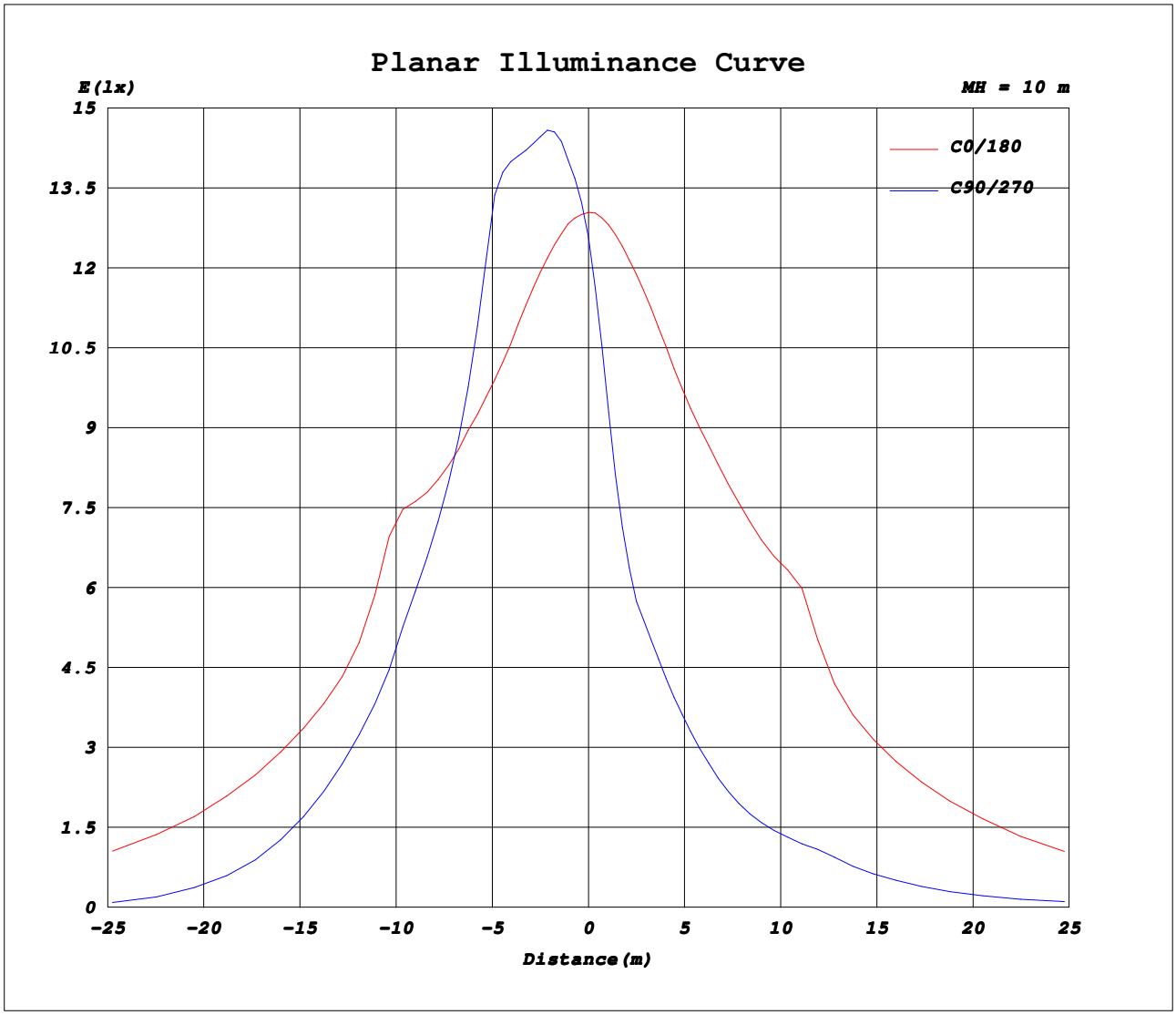
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

Planar Illuminance Curve



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MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

Driver XITANIUM 100W 1.1A 0-10V
MOD 2X6 /740 5050 DA UHE
Lentes: RA10MIII
Corriente de programación: 506mA

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: 0:15':50"
Tiempo de ensayo: 0:30':58"

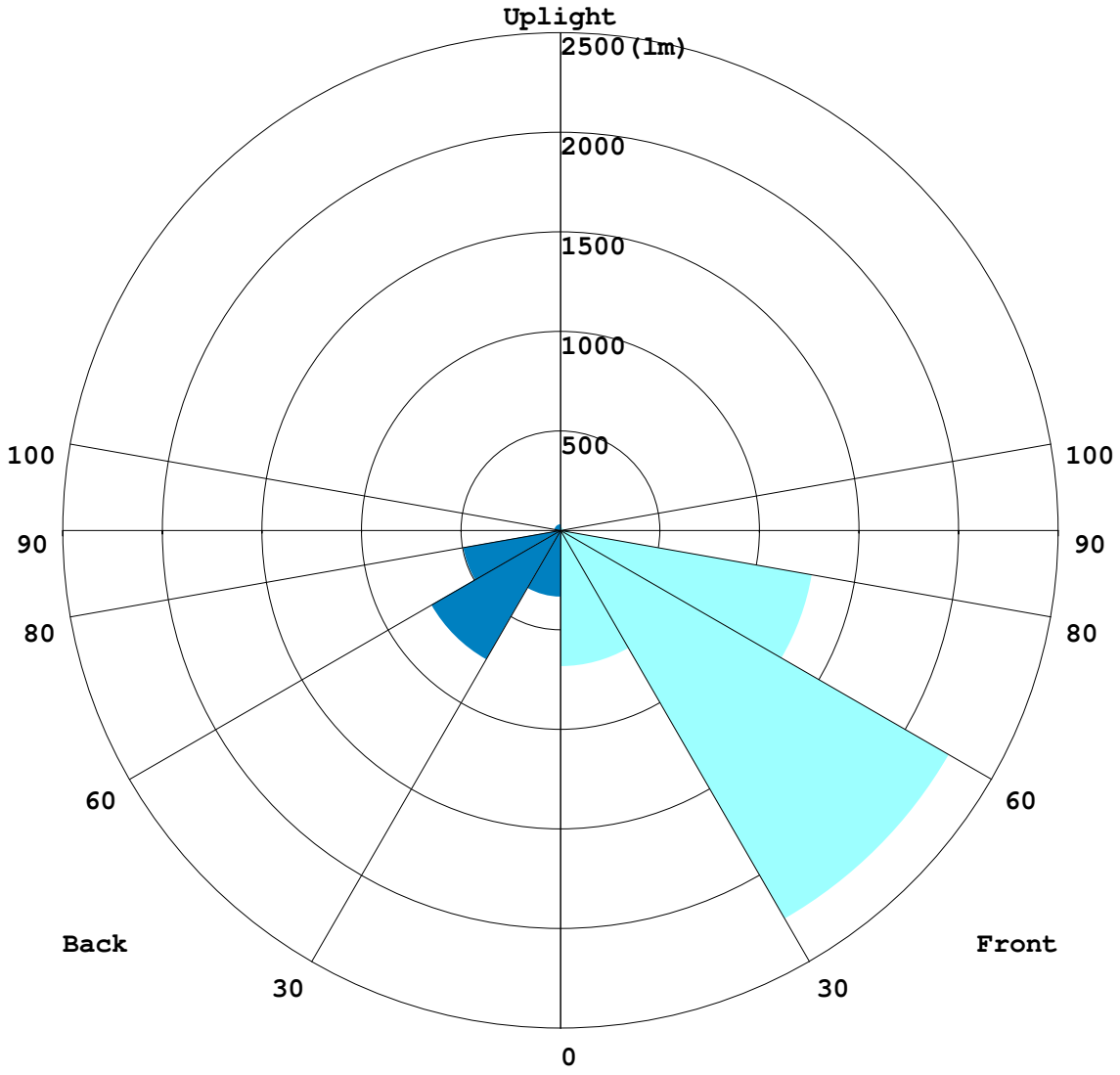
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Kevin Delgado
Test Date:2026-05-14

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:52.8-MIN:43.6%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-1-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:220.10V I:0.1890A P:40.197W PF:0.9663 Freq:60.01Hz Lamp Flux:5923.9x1 lm		
NAME: ANEXO 26-0235-1-A KAYRA II 24 LED 40W	TYPE:ALUMBRADO PUBLICO	WEIGHT:----
SPEC.:24 LED 40W	DIM.: ----	SERIAL No.:26-0235-1
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



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Test Distance:7.080m [K=1.0000]
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Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

BUG REPORT

Test:U:220.10V I:0.1890A P:40.197W PF:0.9663 Freq:60.01Hz Lamp Flux:5923.9x1 lm		
NAME: ANEXO 26-0235-1-A KAYRA II 24 LED 40W	TYPE:ALUMBRADO PUBLICO	WEIGHT:----
SPEC.:24 LED 40W	DIM.: ----	SERIAL No.:26-0235-1
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	683.16	11.5
FM - Front-Medium(30-60)	2253.4	38.0
FH - Front-High(60-80)	1283.6	21.7
FVH - Front-Very High(80-90)	48.871	0.8
Total Forward Light	4285.8	72.3

BL - Back-Low(0-30)	333.69	5.6
BM - Back-Medium(30-60)	749.2	12.6
BH - Back-High(60-80)	495.75	8.4
BVH - Back-Very High(80-90)	26.319	0.4
Total Back Light	1638.1	27.7

UL - Uplight-Low(90-100)	4.5517	0.1
UH - Uplight-High(100-180)	45.307	0.8
Total Up Light	49.858	0.8

BUG(Back,Up,Glare) Rating	B1-U2-G1

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1605	33.159	1638.1
Street Side	4269.1	16.7	4285.8

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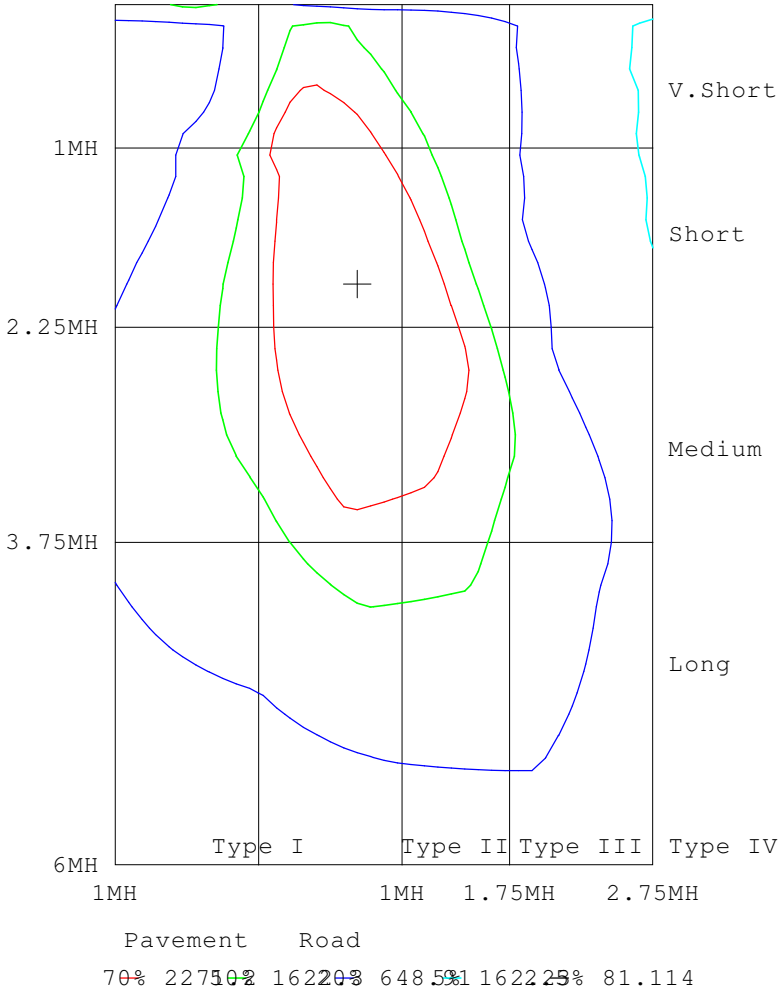
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII

ROAD ISOCANDELA REPORT

Test:U:220.10V I:0.1890A P:40.197W PF:0.9663 Freq:60.01Hz Lamp Flux:5923.9x1 lm		
NAME: ANEXO 26-0235-1-A KAYRA II 24 LED 40W	TYPE:ALUMBRADO PUBLICO	WEIGHT:----
SPEC.:24 LED 40W	DIM.: ----	SERIAL No.:26-0235-1
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----

ROAD SURFACE ISOCANDELA DIAGRAM



Pavement	Road
70% 227	10% 162
20% 648	5% 162
25% 81.114	

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:52.8-MIN:43.6%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-1-A KAYRA II 24 LED
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
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LUMINOUS DISTRIBUTION INTENSITY DATA

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SPEC.:24 LED 40W	DIM.: ----	SERIAL No.:26-0235-1
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	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267
5	1266	1289	1308	1325	1338	1357	1367	1378	1385	1390	1387	1385	1378	1369	1357	1339	1318	1292	1266
10	1265	1317	1363	1404	1447	1480	1503	1519	1533	1537	1533	1525	1508	1483	1448	1412	1373	1324	1262
15	1268	1338	1410	1477	1526	1560	1577	1589	1597	1597	1591	1591	1577	1560	1522	1463	1404	1348	1264
20	1283	1385	1511	1599	1654	1672	1687	1703	1714	1714	1707	1698	1680	1671	1646	1580	1470	1385	1274
25	1304	1450	1613	1723	1793	1819	1826	1823	1825	1825	1823	1823	1807	1786	1756	1685	1544	1420	1289
30	1384	1631	1917	2071	2077	1984	1844	1744	1687	1694	1719	1813	1942	2048	2067	1983	1765	1531	1349
35	1468	1838	2180	2264	2141	1941	1760	1636	1561	1560	1591	1704	1855	2060	2222	2241	2029	1672	1419
40	1684	2219	2538	2472	2206	1929	1706	1567	1490	1474	1518	1636	1820	2055	2330	2537	2429	1963	1565
45	1951	2496	2706	2619	2282	1917	1641	1497	1442	1426	1465	1572	1774	2071	2413	2685	2640	2216	1720
50	1819	2382	2809	2752	2280	1813	1493	1375	1266	1230	1316	1460	1630	2016	2497	2885	2787	2321	1840
55	1832	2482	2934	2814	2226	1711	1384	1195	1098	1083	1146	1311	1528	1935	2483	2971	2876	2305	1730
60	1934	2680	3124	2850	2052	1401	1028	854	742	724	802	979	1249	1720	2389	3123	3119	2514	1832
65	1967	2807	3180	2765	1762	1001	686	559	456	446	521	684	901	1385	2234	3133	3249	2660	1920
70	1898	2737	2915	2393	1029	389	249	170	153	152	164	216	370	663	1715	2940	3290	2859	1956
75	1499	2286	2269	1690	470	194	126	100	86.3	88.9	93.6	125	168	305	1035	2571	2950	2603	1829
80	313	467	637	293	252	82.7	44.7	40.1	35.5	36.4	41.0	50.0	67.5	144	410	972	1436	1199	725
85	36.9	49.5	63.2	48.9	55.6	23.4	15.1	13.5	12.8	3.92	16.3	18.8	28.2	54.5	172	155	274	181	142
90	6.97	5.35	3.74	2.56	1.79	1.37	1.19	1.08	0.96	0.77	1.03	1.20	1.35	1.58	2.07	2.95	4.08	5.41	5.94
95	8.14	6.22	4.31	2.88	1.99	1.52	1.33	1.22	1.16	1.04	1.15	1.21	1.30	1.50	1.90	2.64	3.89	5.57	6.59
100	9.89	7.57	5.29	3.59	2.53	1.98	1.73	1.60	1.54	1.50	1.53	1.59	1.69	1.94	2.48	3.50	5.15	7.33	8.73
105	10.9	8.43	5.94	4.07	2.90	2.27	1.99	1.84	1.80	1.77	1.79	1.84	1.97	2.25	2.89	4.07	6.03	8.53	9.92
110	12.0	9.38	6.68	4.65	3.40	2.71	2.38	2.21	2.19	2.18	2.17	2.21	2.38	2.71	3.45	4.82	7.08	9.91	11.1
115	12.4	9.83	7.16	5.10	3.79	3.01	2.62	2.47	2.46	2.46	2.44	2.46	2.64	3.05	3.85	5.29	7.65	10.5	11.7
120	13.0	10.6	7.96	5.83	4.37	3.43	2.96	2.85	2.86	2.88	2.83	2.81	2.97	3.49	4.46	5.98	8.36	11.2	12.4
125	13.1	10.8	8.35	6.22	4.71	3.70	3.19	3.08	3.10	3.10	3.06	3.04	3.17	3.71	4.71	6.22	8.50	11.1	12.8
130	12.8	10.9	8.64	6.62	5.12	4.14	3.60	3.45	3.43	3.42	3.36	3.38	3.53	4.05	4.98	6.37	8.35	10.6	13.1
135	12.4	10.7	8.69	6.80	5.40	4.47	3.92	3.72	3.64	3.62	3.55	3.61	3.81	4.35	5.18	6.44	8.19	10.15	13.2
140	11.8	10.4	8.77	7.18	5.91	5.01	4.47	4.19	4.03	3.97	3.90	4.00	4.30	4.86	5.69	6.74	8.04	9.58	13.0
145	11.4	10.3	8.89	7.46	6.29	5.44	4.87	4.58	4.40	4.31	4.23	4.35	4.67	5.23	6.00	6.99	8.09	9.36	12.7
150	11.1	10.2	9.11	7.99	7.01	6.22	5.56	5.33	5.11	5.04	4.99	5.11	5.39	5.87	6.51	7.29	8.14	9.10	12.3
155	11.0	10.3	9.37	8.41	7.50	6.78	6.09	5.93	5.73	5.65	5.61	5.72	5.99	6.41	6.97	7.63	8.33	9.15	12.1
160	11.0	10.4	9.74	8.98	8.25	7.66	7.02	6.99	6.82	6.75	6.70	6.81	6.98	7.29	7.69	8.22	8.84	9.54	12.0
165	11.0	10.6	9.99	9.38	8.82	8.35	7.74	7.80	7.65	7.59	7.56	7.62	7.71	7.91	8.20	8.62	9.14	9.76	11.9
170	11.2	10.9	10.5	10.1	9.74	9.44	8.95	9.11	8.99	8.94	8.90	8.90	8.88	8.99	9.16	9.42	9.75	10.20	11.8
175	11.5	11.3	11.0	10.6	10.4	10.2	9.76	9.99	9.89	9.84	9.78	9.78	9.77	9.82	9.90	10.07	10.3	10.6	11.8
180	11.8	11.7	11.5	11.4	11.3	11.2	10.9	11.2	11.1	11.2	11.2	11.2	11.2	11.2	11.1	11.1	11.1	11.2	11.8

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:52.8-MIN:43.6%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-1-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:220.10V I:0.1890A P:40.197W PF:0.9663 Freq:60.01Hz Lamp Flux:5923.9x1 lm		
NAME: ANEXO 26-0235-1-A KAYRA II 24 LED 40W	TYPE:ALUMBRADO PUBLICO	WEIGHT:----
SPEC.:24 LED 40W	DIM.: ----	SERIAL No.:26-0235-1
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----

Table--2 UNIT: cd

C(DEG) / γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267		
5	1241	1215	1185	1160	1133	1112	1089	1077	1069	1072	1080	1097	1118	1146	1174	1208	1240		
10	1197	1121	1038	959	883	826	784	763	754	762	780	817	870	942	1024	1116	1200		
15	1173	1059	935	824	739	687	652	638	635	639	657	691	742	821	930	1062	1186		
20	1148	974	798	676	606	587	574	567	567	570	581	599	619	685	806	985	1171		
25	1132	913	719	603	567	544	529	522	522	524	536	556	581	616	730	929	1160		
30	1119	822	617	543	510	488	474	467	465	470	481	497	524	557	633	856	1170		
35	1126	778	569	511	478	455	441	433	431	437	449	467	494	530	593	830	1202		
40	1160	746	541	482	442	413	404	395	395	404	413	424	460	511	584	843	1299		
45	1210	744	533	470	419	391	390	388	393	395	402	406	439	512	616	912	1469		
50	1333	813	595	462	405	407	402	409	415	412	419	425	450	589	634	875	1403		
55	1210	696	491	475	415	432	403	391	386	383	411	433	480	452	523	835	1384		
60	1245	703	417	348	346	421	371	327	320	325	397	377	342	365	469	854	1452		
65	1310	736	400	307	298	332	297	270	266	269	320	315	297	330	469	884	1510		
70	1341	758	395	263	226	232	209	189	188	187	211	217	213	279	454	895	1426		
75	1266	751	388	222	168	171	159	126	122	123	153	153	154	233	389	751	1094		
80	575	311	175	149	84.5	79.5	57.4	43.6	39.7	42.0	51.3	57.5	76.5	91.1	107	190	297		
85	152	61.2	49.0	43.9	35.0	25.5	20.3	13.7	11.8	12.3	14.1	14.9	16.7	21.7	17.4	23.4	39.0		
90	6.95	6.97	6.10	4.56	2.97	1.85	1.14	0.80	0.77	0.92	1.25	1.97	3.40	5.25	7.02	7.90	7.66		
95	7.89	8.13	7.32	5.56	3.70	2.22	1.53	1.30	1.29	1.43	1.88	2.90	4.68	6.84	8.77	9.73	9.41		
100	10.4	10.8	10.00	8.09	5.89	3.97	2.88	2.46	2.43	2.65	3.36	4.77	6.84	9.15	11.2	12.2	11.9		
105	11.6	12.0	11.2	9.44	7.31	5.31	3.98	3.45	3.40	3.66	4.50	6.07	8.11	10.3	12.2	13.3	13.1		
110	12.9	13.3	12.5	10.9	9.03	7.19	5.72	5.09	5.02	5.29	6.21	7.87	9.76	11.7	13.5	14.5	14.2		
115	13.4	13.8	13.1	11.8	10.0	8.25	6.83	6.20	6.11	6.37	7.28	8.95	10.9	12.8	14.4	15.2	14.7		
120	13.9	14.3	13.9	12.8	11.3	9.73	8.49	7.89	7.76	8.07	8.93	10.6	12.6	14.4	15.6	15.8	14.9		
125	14.0	14.3	13.8	13.0	11.9	10.7	9.63	9.06	8.93	9.27	10.10	11.7	13.6	15.2	16.0	15.7	14.5		
130	13.9	13.8	13.2	12.7	12.3	11.7	11.2	10.7	10.6	11.0	11.8	13.0	14.7	16.0	16.1	15.2	13.7		
135	13.9	13.6	12.8	12.4	12.4	12.1	11.8	11.5	11.5	11.9	12.6	13.7	15.2	16.1	15.9	14.8	13.2		
140	13.6	13.4	12.8	12.4	12.4	12.4	12.4	12.3	12.4	12.8	13.5	14.3	15.3	15.8	15.3	14.1	12.5		
145	13.3	13.2	12.8	12.5	12.5	12.5	12.7	12.7	12.9	13.2	13.8	14.6	15.3	15.5	14.9	13.7	12.1		
150	12.8	12.8	12.6	12.6	12.6	12.6	12.9	13.1	13.2	13.5	14.0	14.6	15.0	15.0	14.3	13.2	11.7		
155	12.6	12.7	12.6	12.6	12.6	12.5	12.9	13.1	13.4	13.6	14.0	14.3	14.6	14.5	13.9	12.9	11.7		
160	12.4	12.6	12.6	12.5	12.5	12.4	12.7	12.9	13.1	13.3	13.6	13.8	13.9	13.7	13.2	12.6	11.7		
165	12.2	12.4	12.4	12.4	12.5	12.3	12.5	12.7	12.8	13.0	13.2	13.3	13.4	13.2	12.8	12.3	11.7		
170	11.9	12.1	12.1	12.1	12.2	12.0	12.3	12.3	12.4	12.5	12.6	12.6	12.6	12.4	12.2	11.8	11.5		
175	11.8	11.9	11.9	11.9	11.9	11.7	12.0	12.0	12.1	12.1	12.2	12.2	12.1	12.0	11.8	11.6	11.5		
180	11.7	11.5	11.4	11.3	11.2	10.9	11.2	11.1	11.2	11.2	11.2	11.2	11.2	11.2	11.1	11.1	11.2		

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:52.8-MIN:43.6%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-1-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	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267
2.0	1266	1279	1288	1297	1306	1317	1324	1331	1336	1336
4.0	1266	1289	1308	1325	1338	1357	1367	1378	1385	1390
6.0	1267	1299	1326	1348	1370	1394	1410	1425	1434	1438
8.0	1265	1310	1344	1376	1405	1436	1458	1476	1487	1492
10.0	1265	1317	1363	1404	1447	1480	1503	1519	1533	1537
12.0	1266	1328	1383	1440	1486	1524	1543	1561	1569	1572
14.0	1268	1338	1410	1477	1526	1560	1577	1589	1597	1597
16.0	1272	1351	1440	1517	1567	1597	1608	1617	1621	1627
18.0	1277	1365	1473	1557	1607	1632	1643	1654	1661	1666
20.0	1283	1385	1511	1599	1654	1672	1687	1703	1714	1714
22.0	1289	1416	1556	1655	1710	1740	1753	1766	1773	1771
24.0	1304	1450	1613	1723	1793	1819	1826	1823	1825	1825
26.0	1325	1497	1687	1825	1899	1909	1891	1868	1851	1856
28.0	1353	1557	1786	1948	2003	1981	1893	1818	1774	1783
30.0	1384	1631	1917	2071	2077	1984	1844	1744	1687	1694
32.0	1426	1726	2057	2171	2120	1967	1798	1684	1612	1615
34.0	1468	1838	2180	2264	2141	1941	1760	1636	1561	1560
36.0	1523	1962	2308	2342	2156	1930	1743	1605	1532	1520
38.0	1595	2092	2435	2412	2176	1929	1727	1586	1506	1493
40.0	1684	2219	2538	2472	2206	1929	1706	1567	1490	1474
42.0	1804	2372	2640	2543	2243	1930	1676	1537	1468	1458
44.0	1951	2496	2706	2619	2282	1917	1641	1497	1442	1426
46.0	2019	2493	2763	2693	2303	1892	1595	1456	1399	1342
48.0	1901	2420	2792	2733	2298	1856	1547	1425	1340	1286
50.0	1819	2382	2809	2752	2280	1813	1493	1375	1266	1230
52.0	1804	2416	2864	2780	2259	1764	1443	1278	1186	1165
54.0	1832	2482	2934	2814	2226	1711	1384	1195	1098	1083
56.0	1869	2549	3008	2844	2188	1642	1297	1103	998.1	982.9
58.0	1905	2613	3076	2863	2131	1543	1180	988.9	878.1	860.6
60.0	1934	2680	3124	2850	2052	1401	1028	853.6	742.3	723.7
62.0	1963	2758	3159	2817	1931	1216	857.2	708.1	598.2	582.5
64.0	1967	2807	3180	2765	1762	1001	685.9	558.8	456.3	445.8
66.0	1979	2829	3147	2692	1562	784.4	526.4	403.6	295.0	297.8
68.0	1961	2822	3070	2543	1331	566.7	379.0	286.9	185.9	185.1
70.0	1898	2737	2915	2393	1029	388.9	248.5	170.1	153.0	151.8
72.0	1766	2512	2647	2108	700.5	266.1	164.4	134.6	119.6	117.4
74.0	1499	2286	2269	1690	469.9	193.7	126.2	100.3	86.32	88.88
76.0	1155	1836	1844	1171	354.6	152.8	92.35	76.98	66.96	69.61
78.0	675.2	1154	1287	648.7	303.0	118.8	65.04	57.98	49.57	50.05
80.0	312.7	467.0	637.0	292.6	251.6	82.72	44.74	40.12	35.51	36.35
82.0	130.5	167.9	216.3	145.9	147.5	49.97	28.63	24.52	23.25	23.01
84.0	36.95	49.47	63.20	48.91	55.63	23.41	15.14	13.50	12.81	3.915
86.0	11.37	11.31	10.96	9.844	9.355	6.327	5.408	5.717	5.444	0.9831
88.0	6.902	5.609	4.099	2.951	2.099	1.675	1.535	1.697	1.677	0.7411
90.0	6.973	5.351	3.744	2.556	1.794	1.372	1.187	1.081	0.9594	0.7733
92.0	7.563	5.790	4.027	2.718	1.893	1.442	1.247	1.125	1.031	0.8817
94.0	8.144	6.217	4.314	2.884	1.994	1.525	1.329	1.223	1.158	1.042
96.0	8.718	6.641	4.616	3.101	2.165	1.665	1.454	1.347	1.298	1.239
98.0	9.320	7.117	4.959	3.341	2.342	1.819	1.592	1.469	1.417	1.363
100.0	9.887	7.572	5.293	3.589	2.526	1.978	1.733	1.595	1.544	1.499
102.0	10.42	8.017	5.623	3.826	2.708	2.127	1.859	1.723	1.675	1.635
104.0	10.90	8.432	5.944	4.069	2.898	2.271	1.987	1.845	1.803	1.774
106.0	11.33	8.808	6.224	4.281	3.065	2.412	2.121	1.968	1.926	1.907
108.0	11.68	9.121	6.460	4.467	3.228	2.556	2.255	2.087	2.054	2.047
110.0	11.97	9.375	6.679	4.653	3.398	2.709	2.380	2.214	2.185	2.183
112.0	12.18	9.590	6.908	4.863	3.589	2.865	2.502	2.344	2.325	2.324
114.0	12.40	9.833	7.163	5.099	3.790	3.013	2.619	2.470	2.464	2.464
116.0	12.62	10.09	7.432	5.343	3.989	3.162	2.741	2.601	2.599	2.604
118.0	12.82	10.35	7.714	5.594	4.186	3.303	2.854	2.724	2.735	2.744
120.0	12.97	10.56	7.962	5.826	4.369	3.431	2.964	2.847	2.862	2.876
122.0	13.06	10.73	8.168	6.035	4.543	3.568	3.074	2.961	2.986	2.997
124.0	13.09	10.84	8.346	6.222	4.707	3.701	3.192	3.084	3.101	3.105
126.0	13.07	10.89	8.485	6.379	4.861	3.834	3.318	3.203	3.204	3.213
128.0	12.97	10.89	8.582	6.512	4.998	3.979	3.451	3.325	3.315	3.317
130.0	12.79	10.86	8.644	6.623	5.118	4.138	3.603	3.448	3.427	3.421
132.0	12.59	10.79	8.679	6.712	5.257	4.299	3.756	3.587	3.531	3.525
134.0	12.40	10.69	8.694	6.797	5.402	4.467	3.917	3.721	3.642	3.621
136.0	12.20	10.59	8.694	6.914	5.560	4.636	4.094	3.859	3.762	3.721
138.0	11.97	10.47	8.714	7.042	5.731	4.815	4.273	4.023	3.893	3.837
140.0	11.77	10.40	8.767	7.180	5.906	5.006	4.471	4.193	4.033	3.967
142.0	11.59	10.34	8.829	7.316	6.095	5.218	4.670	4.374	4.199	4.127
144.0	11.43	10.28	8.887	7.460	6.293	5.437	4.870	4.577	4.395	4.311
146.0	11.28	10.23	8.949	7.618	6.510	5.687	5.086	4.806	4.602	4.524

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:52.8-MIN:43.6%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-1-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	11.17	10.20	9.022	7.797	6.751	5.952	5.321	5.063	4.851	4.772
150.0	11.08	10.19	9.112	7.993	7.007	6.219	5.560	5.332	5.114	5.044
152.0	11.03	10.22	9.239	8.208	7.259	6.501	5.823	5.615	5.414	5.339
154.0	11.03	10.29	9.370	8.411	7.495	6.777	6.094	5.928	5.727	5.652
156.0	11.03	10.33	9.501	8.605	7.744	7.059	6.373	6.260	6.070	5.988
158.0	11.04	10.39	9.626	8.791	7.997	7.352	6.682	6.616	6.435	6.357
160.0	11.04	10.43	9.741	8.977	8.246	7.661	7.016	6.986	6.815	6.747
162.0	11.03	10.48	9.861	9.171	8.528	7.995	7.368	7.383	7.223	7.158
164.0	11.04	10.55	9.993	9.384	8.816	8.353	7.737	7.795	7.650	7.586
166.0	11.06	10.64	10.16	9.604	9.121	8.713	8.125	8.227	8.084	8.033
168.0	11.12	10.77	10.34	9.848	9.426	9.080	8.529	8.670	8.533	8.488
170.0	11.21	10.92	10.53	10.11	9.737	9.445	8.949	9.115	8.995	8.945
172.0	11.31	11.07	10.74	10.37	10.05	9.821	9.372	9.553	9.450	9.401
174.0	11.45	11.25	10.96	10.63	10.38	10.20	9.764	9.992	9.893	9.843
176.0	11.61	11.44	11.15	10.90	10.70	10.56	10.16	10.41	10.32	10.30
178.0	11.72	11.56	11.32	11.15	10.99	10.91	10.56	10.79	10.73	10.73
180.0	11.79	11.66	11.49	11.39	11.28	11.23	10.94	11.17	11.13	11.17

G/C	100.0	110.0	120.0	130.0	140.0	150.0	160.0	170.0	180.0	190.0
0.0	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267
2.0	1338	1335	1330	1325	1316	1306	1294	1279	1269	1255
4.0	1387	1385	1378	1369	1357	1339	1318	1292	1266	1241
6.0	1435	1430	1418	1407	1390	1367	1340	1305	1265	1228
8.0	1487	1480	1461	1443	1417	1391	1357	1314	1263	1213
10.0	1533	1525	1508	1483	1448	1412	1373	1324	1262	1197
12.0	1568	1562	1545	1524	1484	1436	1388	1336	1261	1184
14.0	1591	1591	1577	1560	1522	1463	1404	1348	1264	1173
16.0	1622	1620	1609	1598	1562	1495	1422	1359	1266	1163
18.0	1659	1653	1641	1634	1603	1534	1444	1372	1271	1157
20.0	1707	1698	1680	1671	1646	1580	1470	1385	1274	1148
22.0	1770	1760	1737	1717	1696	1628	1501	1398	1282	1140
24.0	1823	1823	1807	1786	1756	1685	1544	1420	1289	1132
26.0	1862	1875	1888	1878	1839	1757	1597	1449	1303	1126
28.0	1807	1880	1953	1972	1951	1852	1672	1487	1322	1123
30.0	1719	1813	1942	2048	2067	1983	1765	1531	1349	1119
32.0	1645	1750	1898	2072	2155	2119	1887	1594	1382	1121
34.0	1591	1704	1855	2060	2222	2241	2029	1672	1419	1126
36.0	1560	1675	1838	2048	2262	2353	2164	1762	1458	1136
38.0	1537	1655	1833	2046	2293	2460	2294	1859	1509	1146
40.0	1518	1636	1820	2055	2330	2537	2429	1963	1565	1160
42.0	1502	1610	1799	2066	2368	2609	2560	2081	1633	1178
44.0	1465	1572	1774	2071	2413	2685	2640	2216	1720	1210
46.0	1432	1527	1731	2064	2451	2758	2720	2363	1836	1273
48.0	1392	1487	1679	2044	2480	2820	2751	2404	1943	1366
50.0	1316	1460	1630	2016	2497	2885	2787	2321	1840	1333
52.0	1236	1405	1578	1981	2495	2922	2800	2270	1746	1238
54.0	1146	1311	1528	1935	2483	2971	2876	2305	1730	1210
56.0	1050	1213	1464	1881	2464	3027	2960	2368	1753	1213
58.0	932.4	1107	1374	1816	2438	3084	3041	2442	1788	1228
60.0	801.9	978.9	1249	1720	2389	3123	3119	2514	1832	1245
62.0	662.5	836.4	1083	1581	2326	3141	3184	2583	1874	1263
64.0	520.9	683.6	901.1	1385	2234	3133	3249	2660	1920	1310
66.0	358.4	525.7	710.4	1159	2101	3100	3303	2731	1930	1333
68.0	211.9	357.4	528.9	914.2	1931	3039	3322	2813	1951	1342
70.0	164.3	215.8	369.5	663.1	1715	2940	3290	2859	1956	1341
72.0	128.3	159.5	245.3	445.0	1426	2808	3177	2834	1928	1326
74.0	93.60	125.3	167.8	305.4	1035	2571	2950	2603	1829	1266
76.0	72.54	93.66	128.9	228.1	675.8	2182	2579	2371	1550	1080
78.0	54.57	70.42	94.33	184.1	480.1	1641	2065	1875	1182	827.1
80.0	40.99	49.98	67.47	144.2	410.2	972.3	1436	1199	725.4	575.1
82.0	27.79	32.11	45.71	95.61	319.6	411.8	738.5	526.3	345.6	331.2
84.0	16.29	18.85	28.22	54.45	171.9	154.5	274.1	180.8	141.7	151.8
86.0	7.438	9.073	13.33	23.02	58.86	48.48	143.1	50.22	40.39	44.83
88.0	2.371	3.021	3.783	5.148	8.501	10.15	12.79	10.65	10.13	11.28
90.0	1.027	1.197	1.345	1.581	2.075	2.949	4.077	5.407	5.935	6.949
92.0	1.027	1.122	1.219	1.407	1.767	2.433	3.554	5.057	5.901	7.068
94.0	1.147	1.206	1.302	1.500	1.904	2.641	3.892	5.575	6.595	7.887
96.0	1.275	1.327	1.419	1.627	2.074	2.882	4.270	6.116	7.288	8.727
98.0	1.400	1.448	1.549	1.785	2.280	3.187	4.696	6.719	8.024	9.594
100.0	1.532	1.585	1.690	1.939	2.484	3.500	5.151	7.328	8.730	10.40
102.0	1.656	1.718	1.823	2.093	2.690	3.794	5.601	7.927	9.358	11.06
104.0	1.788	1.843	1.968	2.251	2.889	4.071	6.030	8.529	9.919	11.64
106.0	1.913	1.968	2.101	2.410	3.080	4.336	6.416	9.072	10.42	12.14
108.0	2.037	2.093	2.238	2.560	3.270	4.580	6.766	9.534	10.83	12.55
110.0	2.170	2.214	2.375	2.713	3.449	4.816	7.081	9.913	11.15	12.88

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:52.8-MIN:43.6%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-1-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	2.302	2.343	2.512	2.883	3.640	5.052	7.369	10.25	11.41	13.14
114.0	2.438	2.460	2.638	3.054	3.851	5.292	7.646	10.54	11.66	13.36
116.0	2.575	2.589	2.763	3.216	4.067	5.541	7.924	10.82	11.93	13.58
118.0	2.711	2.702	2.868	3.363	4.269	5.780	8.172	11.04	12.20	13.77
120.0	2.832	2.814	2.973	3.492	4.456	5.978	8.360	11.17	12.44	13.90
122.0	2.952	2.927	3.070	3.609	4.595	6.125	8.458	11.20	12.64	13.98
124.0	3.060	3.036	3.166	3.715	4.709	6.219	8.498	11.14	12.78	14.00
126.0	3.164	3.150	3.275	3.820	4.798	6.284	8.483	11.01	12.89	13.99
128.0	3.261	3.267	3.401	3.926	4.891	6.336	8.434	10.83	12.97	13.95
130.0	3.365	3.383	3.530	4.047	4.976	6.365	8.352	10.62	13.06	13.93
132.0	3.462	3.496	3.671	4.186	5.066	6.401	8.267	10.38	13.12	13.92
134.0	3.554	3.610	3.808	4.352	5.183	6.438	8.190	10.15	13.15	13.91
136.0	3.658	3.726	3.965	4.518	5.346	6.499	8.112	9.939	13.14	13.87
138.0	3.774	3.855	4.131	4.697	5.520	6.605	8.051	9.747	13.08	13.78
140.0	3.898	3.996	4.300	4.863	5.690	6.743	8.043	9.584	12.98	13.64
142.0	4.047	4.158	4.477	5.045	5.849	6.885	8.067	9.462	12.85	13.49
144.0	4.235	4.355	4.675	5.228	5.999	6.992	8.091	9.355	12.71	13.32
146.0	4.455	4.575	4.885	5.423	6.150	7.085	8.100	9.249	12.55	13.13
148.0	4.711	4.831	5.127	5.629	6.323	7.182	8.112	9.163	12.41	12.96
150.0	4.990	5.109	5.393	5.866	6.514	7.292	8.136	9.098	12.28	12.81
152.0	5.294	5.417	5.675	6.133	6.729	7.439	8.209	9.090	12.19	12.68
154.0	5.607	5.724	5.986	6.412	6.969	7.627	8.327	9.152	12.15	12.61
156.0	5.945	6.069	6.309	6.699	7.209	7.826	8.506	9.275	12.13	12.57
158.0	6.313	6.420	6.640	6.991	7.453	8.025	8.673	9.409	12.09	12.52
160.0	6.700	6.808	6.984	7.292	7.686	8.220	8.836	9.536	12.03	12.44
162.0	7.121	7.213	7.348	7.593	7.928	8.415	8.994	9.654	11.96	12.32
164.0	7.559	7.617	7.705	7.910	8.198	8.623	9.141	9.761	11.91	12.24
166.0	7.999	8.041	8.085	8.252	8.492	8.859	9.320	9.875	11.86	12.15
168.0	8.450	8.460	8.472	8.616	8.811	9.127	9.524	10.03	11.81	12.04
170.0	8.900	8.896	8.882	8.995	9.161	9.417	9.748	10.20	11.80	11.95
172.0	9.344	9.335	9.314	9.404	9.521	9.730	9.975	10.38	11.80	11.89
174.0	9.778	9.784	9.766	9.816	9.904	10.07	10.26	10.62	11.82	11.84
176.0	10.25	10.29	10.26	10.29	10.33	10.45	10.57	10.86	11.84	11.80
178.0	10.72	10.76	10.73	10.75	10.74	10.79	10.85	11.06	11.82	11.74
180.0	11.18	11.24	11.21	11.21	11.14	11.12	11.11	11.25	11.79	11.66

G/C	200.0	210.0	220.0	230.0	240.0	250.0	260.0	270.0	280.0	290.0
0.0	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267
2.0	1243	1232	1217	1204	1197	1185	1181	1174	1177	1180
4.0	1215	1185	1160	1133	1112	1089	1077	1069	1072	1080
6.0	1187	1137	1096	1054	1017	981.9	964.5	953.0	960.6	973.0
8.0	1154	1088	1030	969.4	917.4	874.8	854.7	843.4	850.3	868.9
10.0	1121	1038	959.2	883.5	826.2	783.7	763.0	753.5	761.8	780.4
12.0	1088	985.8	888.5	805.8	748.9	710.2	693.2	686.1	693.2	712.9
14.0	1059	935.1	823.7	738.7	687.4	652.4	638.3	634.6	639.3	657.0
16.0	1030	888.3	768.8	687.0	637.2	615.9	611.7	612.5	615.2	625.0
18.0	1002	841.5	719.7	640.3	606.1	596.6	591.2	590.1	594.1	604.6
20.0	973.8	797.9	676.4	605.6	587.1	574.2	567.3	566.8	569.7	581.3
22.0	943.3	757.5	635.7	585.5	566.7	551.2	544.9	543.9	546.4	558.6
24.0	912.7	718.6	602.6	567.4	543.9	528.8	522.2	522.2	524.3	536.1
26.0	882.5	682.9	578.9	547.9	522.8	508.9	502.8	503.1	504.9	516.2
28.0	851.4	648.6	561.2	529.2	504.6	490.8	484.3	483.9	487.4	497.9
30.0	821.8	616.7	543.2	510.4	487.7	473.9	466.6	465.5	470.0	481.0
32.0	796.8	590.2	526.9	493.8	471.3	457.5	449.2	448.1	453.4	464.6
34.0	777.7	569.2	511.4	478.3	455.4	441.4	432.8	430.9	437.3	449.0
36.0	763.2	554.7	499.1	465.0	440.0	426.4	416.8	415.3	422.3	434.9
38.0	750.8	546.1	489.5	452.5	426.1	413.8	404.4	403.5	412.0	422.4
40.0	745.6	540.7	482.2	441.7	413.1	403.8	395.3	395.1	403.8	412.7
42.0	742.5	536.7	476.5	429.3	400.3	394.4	389.5	391.6	398.1	406.3
44.0	744.1	533.5	470.2	419.4	391.4	390.0	388.4	392.6	395.5	401.6
46.0	751.7	534.1	464.4	411.7	387.9	389.3	392.8	397.6	399.4	404.3
48.0	795.8	549.4	459.4	406.6	395.8	392.8	396.0	402.8	405.2	411.9
50.0	813.1	595.5	461.8	405.0	407.1	401.5	408.9	414.8	411.6	419.2
52.0	727.8	565.1	493.1	405.1	423.8	409.5	410.8	408.1	403.8	420.0
54.0	695.9	491.0	474.6	415.4	431.7	402.7	391.1	385.6	382.9	410.8
56.0	689.4	454.3	405.7	436.5	427.2	402.2	372.2	363.8	369.6	420.8
58.0	693.8	433.3	371.4	388.0	417.6	403.7	355.1	346.2	354.9	425.5
60.0	703.1	417.5	348.3	346.5	420.7	371.0	327.1	320.1	324.8	397.0
62.0	714.1	405.5	327.4	320.0	375.8	332.1	296.6	292.1	295.3	362.2
64.0	735.8	400.4	307.3	298.0	332.1	297.0	269.9	266.5	269.4	319.7
66.0	747.3	406.1	293.3	274.7	297.4	263.9	241.1	237.0	240.3	273.5
68.0	749.9	402.4	282.0	250.8	264.2	235.7	212.4	210.4	211.2	240.2
70.0	758.5	395.0	263.0	226.0	231.8	208.5	189.2	188.0	187.0	211.2
72.0	760.3	387.9	242.0	196.6	199.5	183.0	166.4	163.1	164.7	185.4
74.0	751.0	388.4	222.1	168.5	171.1	158.7	126.2	122.3	123.5	152.8

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:52.8-MIN:43.6%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-1-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	662.2	358.0	204.2	141.2	142.4	120.2	90.36	81.51	88.37	114.9
78.0	494.1	273.1	188.6	112.8	111.1	81.64	64.87	59.39	63.10	76.96
80.0	311.4	174.6	148.8	84.45	79.52	57.45	43.57	39.71	42.04	51.34
82.0	158.2	111.7	90.75	59.37	48.71	37.24	26.17	23.63	24.34	30.45
84.0	61.23	49.02	43.89	35.03	25.50	20.29	13.74	11.82	12.26	14.13
86.0	19.06	18.86	17.82	12.44	10.73	7.325	4.903	2.245	4.281	4.343
88.0	8.883	7.578	6.259	3.929	3.039	2.025	1.063	1.086	1.198	1.580
90.0	6.967	6.097	4.561	2.971	1.855	1.142	0.7971	0.7663	0.9192	1.252
92.0	7.237	6.432	4.787	3.059	1.768	1.207	1.012	1.004	1.129	1.494
94.0	8.129	7.318	5.565	3.696	2.220	1.534	1.304	1.285	1.429	1.881
96.0	9.044	8.254	6.436	4.411	2.757	1.929	1.634	1.610	1.784	2.326
98.0	9.977	9.190	7.300	5.148	3.346	2.378	2.019	1.996	2.199	2.821
100.0	10.82	9.996	8.086	5.888	3.971	2.876	2.458	2.425	2.653	3.361
102.0	11.49	10.65	8.809	6.623	4.628	3.412	2.934	2.897	3.145	3.924
104.0	12.04	11.20	9.440	7.309	5.305	3.981	3.449	3.403	3.664	4.504
106.0	12.53	11.69	9.978	7.925	5.957	4.563	3.982	3.933	4.202	5.092
108.0	12.96	12.09	10.44	8.492	6.595	5.151	4.533	4.474	4.749	5.657
110.0	13.29	12.46	10.86	9.027	7.193	5.720	5.088	5.021	5.293	6.212
112.0	13.58	12.79	11.30	9.541	7.737	6.281	5.639	5.555	5.826	6.756
114.0	13.84	13.14	11.76	10.04	8.254	6.834	6.198	6.105	6.374	7.280
116.0	14.08	13.47	12.20	10.50	8.751	7.382	6.756	6.652	6.923	7.810
118.0	14.26	13.75	12.57	10.94	9.246	7.931	7.318	7.205	7.498	8.365
120.0	14.33	13.90	12.83	11.34	9.732	8.494	7.886	7.760	8.072	8.930
122.0	14.34	13.93	12.99	11.67	10.23	9.069	8.465	8.340	8.662	9.507
124.0	14.26	13.83	13.03	11.92	10.69	9.631	9.056	8.928	9.267	10.10
126.0	14.14	13.65	12.97	12.12	11.10	10.19	9.634	9.523	9.857	10.68
128.0	13.98	13.41	12.86	12.25	11.44	10.71	10.19	10.10	10.44	11.25
130.0	13.81	13.18	12.72	12.34	11.73	11.16	10.71	10.63	10.97	11.75
132.0	13.65	12.97	12.55	12.37	11.95	11.53	11.15	11.11	11.46	12.21
134.0	13.55	12.82	12.43	12.38	12.11	11.82	11.53	11.51	11.87	12.61
136.0	13.47	12.72	12.40	12.38	12.23	12.06	11.85	11.87	12.22	12.94
138.0	13.41	12.72	12.42	12.39	12.34	12.25	12.13	12.17	12.53	13.22
140.0	13.36	12.76	12.45	12.41	12.42	12.41	12.34	12.42	12.79	13.46
142.0	13.30	12.77	12.48	12.46	12.49	12.54	12.54	12.66	13.01	13.66
144.0	13.22	12.75	12.49	12.51	12.53	12.66	12.71	12.85	13.20	13.81
146.0	13.06	12.69	12.50	12.56	12.55	12.76	12.86	13.01	13.33	13.92
148.0	12.92	12.64	12.53	12.62	12.58	12.86	12.98	13.14	13.44	13.99
150.0	12.80	12.61	12.55	12.62	12.59	12.91	13.07	13.24	13.53	14.02
152.0	12.72	12.60	12.57	12.61	12.57	12.94	13.13	13.33	13.59	14.02
154.0	12.68	12.60	12.56	12.59	12.53	12.93	13.15	13.36	13.61	13.98
156.0	12.67	12.61	12.53	12.56	12.48	12.88	13.10	13.34	13.57	13.91
158.0	12.65	12.61	12.53	12.54	12.43	12.81	13.02	13.26	13.47	13.79
160.0	12.58	12.56	12.51	12.52	12.36	12.71	12.91	13.13	13.33	13.62
162.0	12.47	12.48	12.45	12.46	12.29	12.60	12.77	12.96	13.14	13.40
164.0	12.40	12.43	12.42	12.45	12.27	12.55	12.66	12.81	12.97	13.20
166.0	12.29	12.35	12.37	12.43	12.25	12.48	12.55	12.69	12.80	13.00
168.0	12.17	12.24	12.26	12.32	12.13	12.40	12.44	12.55	12.64	12.79
170.0	12.05	12.12	12.13	12.17	12.00	12.28	12.31	12.39	12.46	12.58
172.0	11.96	12.00	11.99	12.03	11.85	12.13	12.17	12.24	12.29	12.37
174.0	11.87	11.87	11.86	11.88	11.68	11.96	11.99	12.06	12.09	12.16
176.0	11.76	11.73	11.70	11.70	11.48	11.74	11.76	11.82	11.83	11.89
178.0	11.64	11.57	11.50	11.49	11.24	11.47	11.47	11.53	11.56	11.60
180.0	11.50	11.38	11.28	11.23	10.94	11.16	11.13	11.16	11.19	11.24

G/C	300.0	310.0	320.0	330.0	340.0	350.0
0.0	1267	1267	1267	1267	1267	1267
2.0	1187	1197	1210	1223	1238	1253
4.0	1097	1118	1146	1174	1208	1240
6.0	1001	1034	1078	1123	1176	1226
8.0	903.3	949.8	1009	1074	1147	1212
10.0	817.0	869.7	942.1	1024	1116	1200
12.0	746.7	798.6	877.3	976.1	1087	1192
14.0	690.6	742.0	820.6	930.2	1062	1186
16.0	643.5	692.5	770.3	887.0	1036	1180
18.0	617.9	648.9	726.4	845.2	1010	1175
20.0	598.5	619.4	685.3	805.8	984.9	1171
22.0	576.7	599.3	647.4	767.7	957.2	1164
24.0	555.6	581.2	615.8	730.0	929.0	1160
26.0	535.9	560.8	593.0	695.2	899.7	1159
28.0	516.1	542.3	573.8	662.0	876.1	1166
30.0	497.5	524.2	557.1	632.9	855.7	1170
32.0	481.9	507.9	541.9	610.2	839.9	1186
34.0	467.2	494.3	529.5	593.1	830.2	1202
36.0	451.3	482.2	520.7	584.2	826.0	1223
38.0	437.1	470.6	514.1	581.9	829.0	1254

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:52.8-MIN:43.6%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-1-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	424.1	459.7	511.1	584.2	842.7	1299
42.0	413.0	447.9	509.9	594.2	869.2	1364
44.0	406.0	439.0	512.2	616.3	911.8	1469
46.0	404.9	434.7	521.7	657.9	977.3	1569
48.0	411.4	436.5	552.5	699.7	961.5	1491
50.0	425.1	450.3	588.7	634.1	875.1	1403
52.0	432.7	486.0	525.5	560.5	838.6	1380
54.0	433.4	479.8	452.3	522.6	834.9	1384
56.0	438.9	415.7	412.9	499.6	838.2	1403
58.0	420.9	370.8	386.5	481.0	845.9	1423
60.0	376.9	341.8	365.0	468.6	853.9	1452
62.0	346.6	319.6	345.6	464.5	870.9	1496
64.0	314.5	296.9	330.3	468.8	884.3	1510
66.0	281.8	273.4	318.9	460.4	885.0	1498
68.0	249.2	245.2	298.7	457.5	895.7	1479
70.0	216.6	212.5	279.4	454.4	895.3	1426
72.0	183.7	180.5	260.1	448.2	867.6	1314
74.0	152.7	153.6	233.3	389.4	751.4	1094
76.0	121.6	127.0	206.4	277.0	549.8	836.3
78.0	90.09	100.5	149.8	172.8	351.9	558.0
80.0	57.45	76.48	91.08	106.8	189.8	297.2
82.0	32.43	45.91	46.37	40.86	79.41	127.4
84.0	14.92	16.69	21.75	17.38	23.44	38.95
86.0	4.562	4.945	7.115	8.053	9.594	11.30
88.0	2.117	3.291	4.913	6.558	7.483	7.376
90.0	1.968	3.402	5.248	7.017	7.900	7.655
92.0	2.365	4.005	6.025	7.901	8.828	8.537
94.0	2.900	4.683	6.837	8.768	9.732	9.406
96.0	3.489	5.413	7.678	9.690	10.65	10.27
98.0	4.117	6.133	8.462	10.50	11.51	11.13
100.0	4.765	6.836	9.150	11.16	12.21	11.87
102.0	5.429	7.505	9.752	11.71	12.80	12.52
104.0	6.071	8.107	10.27	12.20	13.31	13.07
106.0	6.702	8.673	10.74	12.64	13.78	13.54
108.0	7.307	9.222	11.19	13.05	14.17	13.90
110.0	7.867	9.765	11.68	13.46	14.51	14.20
112.0	8.415	10.32	12.22	13.90	14.84	14.46
114.0	8.951	10.90	12.79	14.36	15.17	14.68
116.0	9.486	11.49	13.37	14.82	15.46	14.84
118.0	10.01	12.07	13.92	15.23	15.65	14.90
120.0	10.57	12.62	14.45	15.58	15.75	14.86
122.0	11.11	13.14	14.89	15.83	15.75	14.74
124.0	11.66	13.61	15.24	15.99	15.68	14.53
126.0	12.18	14.01	15.54	16.07	15.53	14.26
128.0	12.65	14.37	15.79	16.11	15.35	13.97
130.0	13.04	14.70	15.95	16.12	15.19	13.70
132.0	13.37	14.98	16.02	16.07	15.03	13.46
134.0	13.66	15.18	16.06	15.94	14.82	13.24
136.0	13.91	15.30	16.02	15.76	14.56	12.99
138.0	14.13	15.35	15.95	15.56	14.30	12.73
140.0	14.32	15.35	15.83	15.35	14.07	12.50
142.0	14.46	15.33	15.67	15.13	13.87	12.29
144.0	14.58	15.30	15.50	14.91	13.67	12.10
146.0	14.61	15.23	15.31	14.68	13.47	11.91
148.0	14.61	15.15	15.14	14.47	13.31	11.78
150.0	14.55	15.04	14.95	14.26	13.16	11.69
152.0	14.46	14.86	14.75	14.07	13.03	11.66
154.0	14.33	14.65	14.53	13.87	12.93	11.67
156.0	14.19	14.41	14.25	13.68	12.82	11.70
158.0	14.01	14.15	13.98	13.47	12.72	11.75
160.0	13.80	13.89	13.70	13.25	12.59	11.75
162.0	13.55	13.61	13.40	13.02	12.44	11.68
164.0	13.32	13.37	13.18	12.83	12.32	11.65
166.0	13.11	13.14	12.96	12.62	12.17	11.62
168.0	12.86	12.88	12.70	12.39	12.00	11.55
170.0	12.61	12.61	12.43	12.15	11.84	11.50
172.0	12.39	12.37	12.19	11.95	11.70	11.48
174.0	12.17	12.12	11.96	11.76	11.57	11.45
176.0	11.89	11.86	11.72	11.57	11.44	11.41
178.0	11.58	11.55	11.45	11.37	11.29	11.35
180.0	11.21	11.20	11.15	11.13	11.11	11.24

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:52.8-MIN:43.6%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 26-0235-1-A KAYRA II 24 LED
Driver XITANIUM 100W 1.1A 0-10V
MOD FF 2X6/740 5050 DA_UHE
Lentes: RA10MIII