ANEXO 23-0613-5-A TAYRONA I 32 LED's P02 100W

Driver INVENTRONICS EUM-100S105BG

Modulo 2X8 Z15 5050 4K SAMSUNG

SPD ABLE MODELO AP5P277MG



Light Output Ratio:	100.0%
Luminaire Power:	99.94 W
90% Beam Spread	31.6V x 28.5H
50% Beam Lumens	538.6 lumens per klm.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Fabian Loaiza
Test Date:2023-07-10

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:39-MIN:31%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 23-0613-5-A TAYRONA I 32 LED's
Driver INVENTRONICS EUM-100S105BG
Modulo LED 2X8 Z15 5050 4K SAMSUNG

Driver INVENTRONICS EUM-100S105BG
Modulo 2X8 Z15 5050 4K SAMSUNG
SPD ABLE MODELO AP5P277MG

Floodlight Summary:

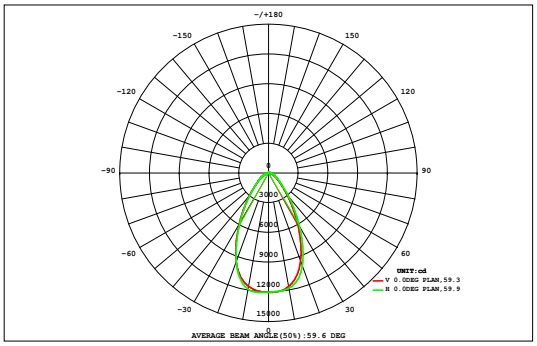
Report based on lamp delivering 1000 lumens.

Maximum Intensity		842.0 cd per klm.
(Luminaire orientation as tested.)		0.0 degrees vertical
		0.0 degrees horizontal
Beam Spread	At 10% of Imax	108.7V x 107.2H
	At 50% of Imax	59.6V x 58.2H
	At 90% of Imax	31.6V x 28.5H
Beam Flux	Total	1000.4 lumens per klm.
	To 10% of Imax	886.7 lumens per klm.
	To 50% of Imax	538.6 lumens per klm.
	To 90% of Imax	183.7 lumens per klm.
	Upward LOR	0.8 %
	Downward LOR	99.3 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

ROY ALPHA
LABORATORIO DE ENSAYOS

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.07V I:0.4601A P:99.943W PF:0.9870 Freq:60.01Hz Lamp Flux:14398.9x1 lm		
NAME: ANEXO 23-0613-5-A TAYRONA I 32 LED's	TYPE:Alumbrado Publico	WEIGHT:------
SPEC.:32 LED's	DIM.: -----	SERIAL No.:23-0613-5
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----



DATA OF LAMP		Eff:144.07lm/W	
MODEL	2X8 Z15 5050 4K	Imax(cd)	12124
NOMINAL POWER(W)	----	AVAILABILITY(%)	88.5
RATED VOLTAGE(V)	----	Avai. FLUX(lm)	12742
NOMINAL FLUX(lm)	14398.9	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	14399
TEST VOLTAGE(V)	220	θ @50%(H,V)	58,60DEG

AREA FLUX DIAGRAM — UNIT:lm

VERTICAL(DEG)	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL(DEG) 20	30	40	50	60	70	80	90	Φ t	Φ a
90	0.00	0.02	0.06	0.16	0.32	0.51	0.70	0.83	0.89	0.91	0.89	0.79	0.61	0.42	0.24	0.11	0.04	0.01	7.51	0.00
80	0.01	0.12	0.58	1.53	2.90	4.52	6.07	7.12	7.64	7.70	7.32	6.39	4.82	3.22	1.81	0.77	0.19	0.02	62.7	0.00
70	0.02	0.37	1.67	4.17	7.64	11.4	14.8	17.0	18.3	18.4	17.3	15.4	11.9	8.08	4.51	1.92	0.48	0.03	153	0.00
60	0.04	0.71	3.07	7.41	13.0	19.1	25.4	30.7	33.9	34.0	31.2	26.2	19.8	13.6	7.72	3.34	0.85	0.06	270	44.4
50	0.06	1.09	4.49	10.4	18.5	28.7	41.3	53.9	62.1	62.7	55.3	43.1	30.1	19.3	10.8	4.74	1.25	0.09	448	340
40	0.09	1.44	5.72	13.3	24.9	43.2	70.4	103	125	127	107	75.3	46.1	26.2	13.8	5.95	1.61	0.12	791	722
30	0.11	1.75	6.71	16.1	32.4	64.0	118	180	224	227	188	126	69.3	34.2	16.8	6.97	1.92	0.14	1313	1260
20	0.12	1.97	7.46	18.3	39.6	87.6	168	262	323	326	271	178	94.4	42.0	19.1	7.75	2.13	0.16	1849	1804
10	0.13	2.07	7.89	19.7	44.5	104	203	308	360	363	314	211	109	46.6	20.3	8.16	2.23	0.17	2123	2080
0	0.13	2.07	7.88	19.7	44.7	105	205	310	359	358	311	208	108	46.8	20.4	8.20	2.25	0.17	2117	2074
-10	0.12	1.96	7.44	18.4	40.2	91.0	177	274	331	328	271	176	92.5	42.1	19.3	7.88	2.17	0.16	1881	1836
-20	0.11	1.74	6.66	16.2	33.5	69.4	129	197	241	238	193	127	69.0	34.4	17.0	7.14	1.97	0.14	1382	1330
-30	0.09	1.43	5.65	13.5	26.3	46.9	79.5	116	139	137	113	77.7	46.5	26.7	14.1	6.10	1.68	0.12	851	785
-40	0.06	1.08	4.43	10.7	19.7	31.3	45.8	60.5	69.2	68.7	59.6	45.2	31.2	19.8	11.2	4.86	1.30	0.09	485	387
-50	0.04	0.72	3.09	7.72	14.0	20.9	28.2	34.2	37.4	37.3	33.9	27.9	21.0	14.1	8.26	3.49	0.91	0.06	293	81.4
-60	0.02	0.38	1.77	4.56	8.56	13.0	17.0	19.5	20.8	20.8	19.4	16.8	13.2	8.82	4.99	2.09	0.53	0.04	172	0.00
-70	0.01	0.13	0.67	1.85	3.59	5.72	7.79	9.13	9.70	9.69	9.14	7.90	6.04	3.92	2.15	0.89	0.21	0.02	78.6	0.00
-80	0.00	0.03	0.10	0.27	0.55	0.91	1.29	1.57	1.63	1.63	1.60	1.39	1.05	0.68	0.37	0.16	0.05	0.01	13.3	0.00
-90																				
Φ t	1.16	19.0	75.3	184	375	747	1339	1983	2364	2366	2004	1371	774	391	193	80.5	21.8	1.59	14290	---
Φ a	0.00	0.00	0.00	25.9	255	641	1238	1887	2268	2270	1907	1270	669	273	35.4	0.00	0.00	0.00	---	12742

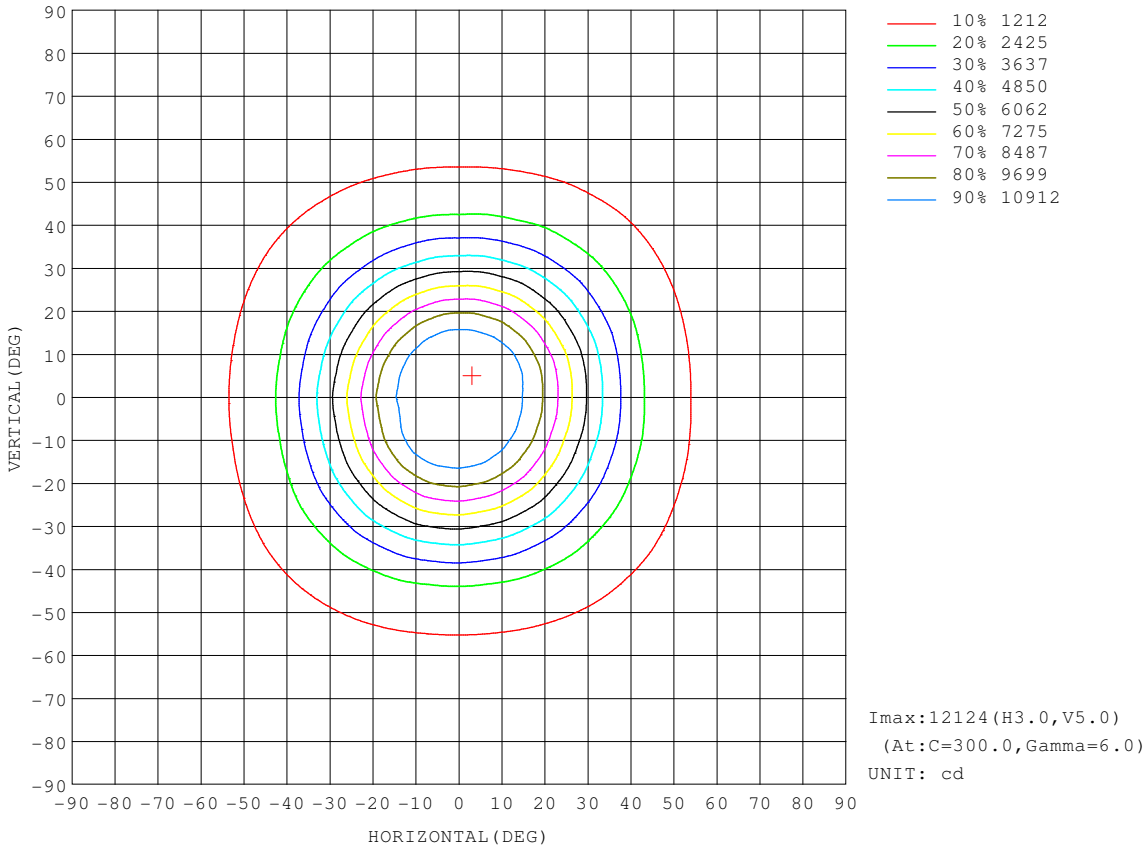
one-half-peak spread: U:35.5,D:24.4 , L:31.9,R:26.7 NEMA Beam Type: Type 6

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Fabian Loaiza
Test Date:2023-07-10

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:39-MIN:31%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 23-0613-5-A TAYRONA I 32 LED's
Driver INVENTRONICS EUM-100S105BG
Modulo LED 2X8 Z15 5050 4K SAMSUNG

ISOCANDELA DIAGRAM

Test:U:220.07V I:0.4601A P:99.943W PF:0.9870 Freq:60.01Hz Lamp Flux:14398.9x1 lm		
NAME: ANEXO 23-0613-5-A TAYRONA I 32 LED's	TYPE:Alumbrado Publico	WEIGHT:------
SPEC.:32 LED's	DIM.: -----	SERIAL No.:23-0613-5
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----

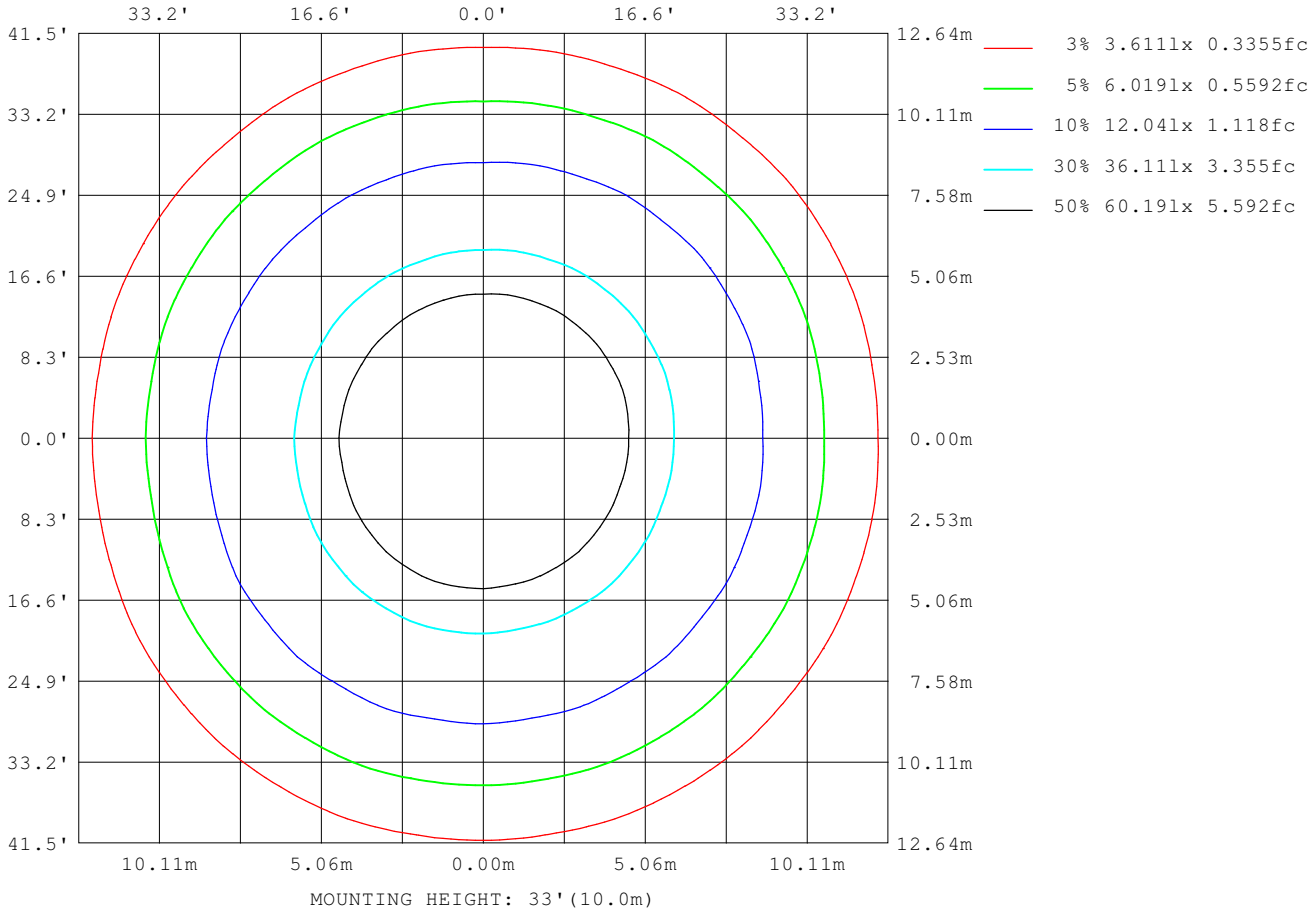


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Fabian Loaiza
Test Date:2023-07-10

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:39-MIN:31%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 23-0613-5-A TAYRONA I 32 LED's
Driver INVENTRONICS EUM-100S105BG
Modulo LED 2X8 Z15 5050 4K SAMSUNG

ISOLUX DIAGRAM

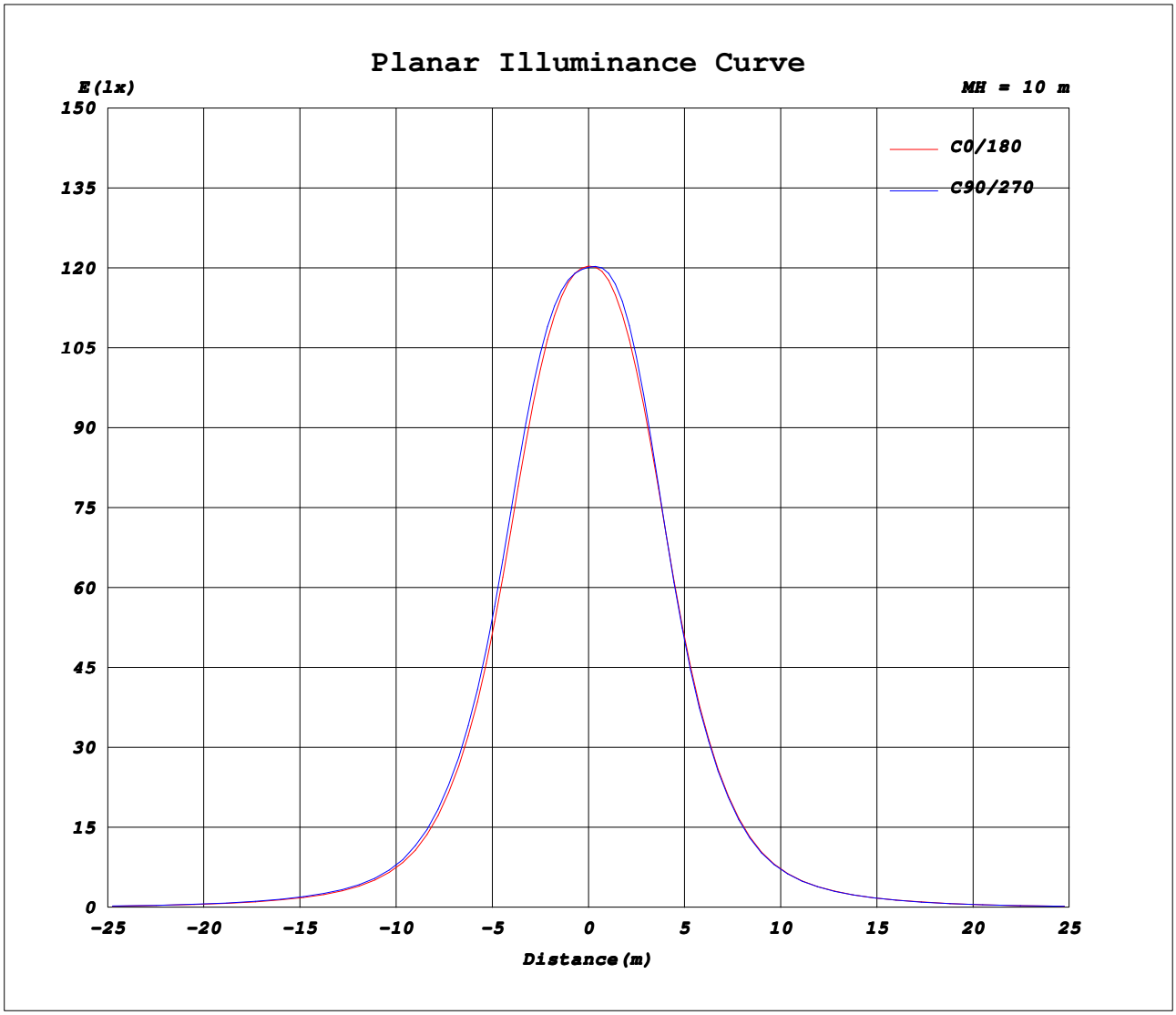
Test:U:220.07V I:0.4601A P:99.943W PF:0.9870 Freq:60.01Hz Lamp Flux:14398.9x1 lm		
NAME: ANEXO 23-0613-5-A TAYRONA I 32 LED's	TYPE:Alumbrado Publico	WEIGHT:------
SPEC.:32 LED's	DIM.: -----	SERIAL No.:23-0613-5
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Fabian Loaiza
Test Date:2023-07-10

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:39-MIN:31%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 23-0613-5-A TAYRONA I 32 LED's
Driver INVENTRONICS EUM-100S105BG
Modulo LED 2X8 Z15 5050 4K SAMSUNG

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Fabian Loaiza
Test Date:2023-07-10

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:39-MIN:31%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 23-0613-5-A TAYRONA I 32 LED's
Driver INVENTRONICS EUM-100S105BG
Modulo LED 2X8 Z15 5050 4K SAMSUNG

Driver INVENTRONICS EUM-100S105BG
Modulo 2X8 Z15 5050 4K SAMSUNG
SPD ABLE MODELO AP5P277MG

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

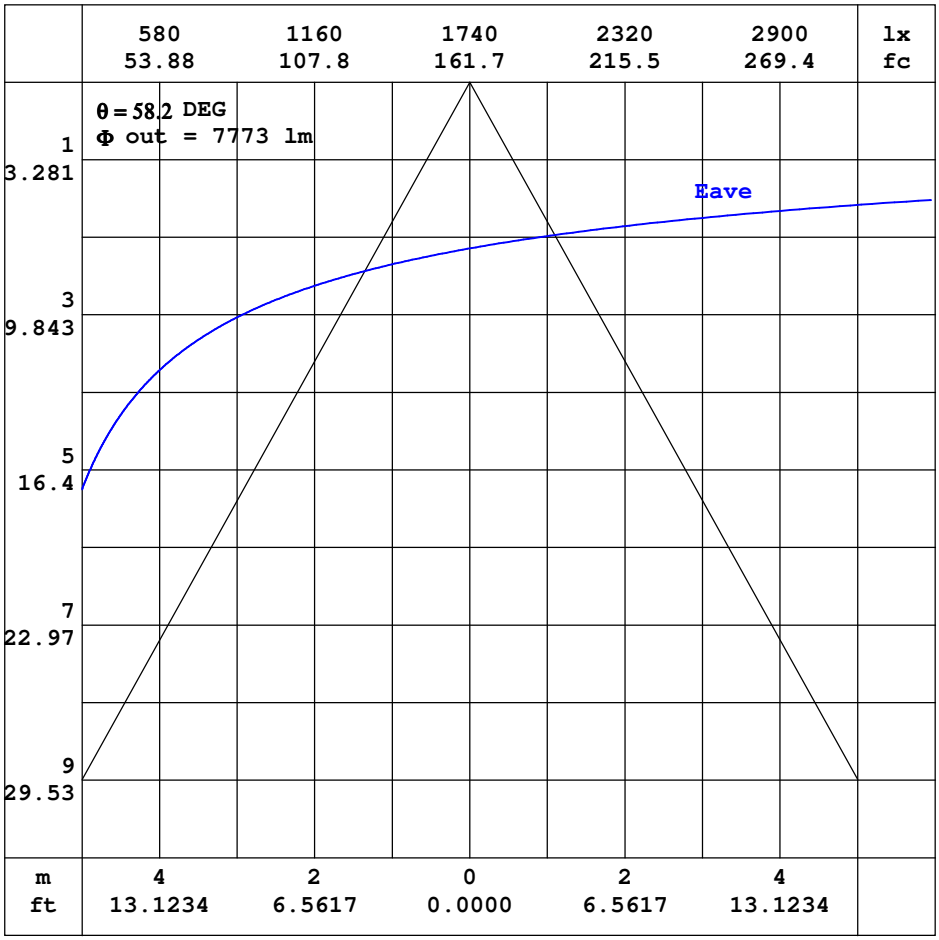
Special Notes: EQUIPOS UTILIZADOS
Fotogoniómetro EQEN-023
Fuente de tensión INCO-011
Luxometro INME-039
Flexometro INME-041
Controlador de temperatura INME-046
Analizador de potencia INME-014
Termohigrometro INME-057-5
El presente reporte de pruebas no se debe reproducir en forma parcial, sin la aprobación del Laboratorio de ensayos de Roy Alpha.

Realizó/revisó	Realizó	Revisó
	Fabian Loaiza	Luis Asprilla.

Testing Procedure: Las prueba fue realizada de acuerdo con la norma LM 79 de 2019.
Tiempo de estabilizacion: 0:29':00"
Tiempo de ensayo: 0:20':28"

AAI CURVES

Test:U:220.07V I:0.4601A P:99.943W PF:0.9870 Freq:60.01Hz Lamp Flux:14398.9x1 lm		
NAME: ANEXO 23-0613-5-A TAYRONA I 32 LED's	TYPE:Alumbrado Publico	WEIGHT:------
SPEC.:32 LED's	DIM.: -----	SERIAL No.:23-0613-5
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----



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

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Fabian Loaiza
Test Date:2023-07-10

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:39-MIN:31%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 23-0613-5-A TAYRONA I 32 LED's
Driver INVENTRONICS EUM-100S105BG
Modulo LED 2X8 Z15 5050 4K SAMSUNG

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.07V I:0.4601A P:99.943W PF:0.9870 Freq:60.01Hz Lamp Flux:14398.9x1 lm		
NAME: ANEXO 23-0613-5-A TAYRONA I 32 LED's	TYPE:Alumbrado Publico	WEIGHT:------
SPEC.:32 LED's	DIM.: -----	SERIAL No.:23-0613-5
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----

Table--1 UNIT: ¡Á10cd

H(DEG) / V(DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	0.07	0.10	0.17	0.25	0.35	0.48	0.64	0.87	1.18	1.60	2.11	2.71	3.34	3.97	4.61	5.30	6.16	7.07	7.61
-170	0.07	0.12	0.20	0.32	0.47	0.69	0.98	1.41	1.99	2.75	3.42	4.08	4.70	5.30	5.84	6.28	6.70	7.00	7.12
-160	0.07	0.13	0.23	0.36	0.56	0.84	1.15	1.50	1.95	2.47	3.03	3.61	4.15	4.67	5.13	5.54	5.89	6.14	6.26
-150	0.07	0.13	0.24	0.39	0.60	0.78	1.00	1.28	1.61	2.00	2.43	2.89	3.34	3.74	4.10	4.40	4.62	4.84	4.92
-140	0.07	0.14	0.25	0.40	0.53	0.67	0.83	1.02	1.25	1.52	1.81	2.11	2.40	2.68	2.94	3.12	3.29	3.41	3.45
-130	0.07	0.14	0.24	0.36	0.45	0.55	0.66	0.79	0.93	1.09	1.26	1.42	1.59	1.75	1.88	1.98	2.06	2.12	2.14
-120	0.07	0.13	0.23	0.30	0.37	0.43	0.50	0.58	0.66	0.75	0.83	0.91	0.99	1.06	1.11	1.16	1.20	1.22	1.23
-110	0.07	0.13	0.21	0.25	0.29	0.33	0.36	0.40	0.45	0.48	0.52	0.55	0.58	0.61	0.62	0.64	0.66	0.67	0.67
-100	0.07	0.13	0.19	0.21	0.22	0.24	0.25	0.27	0.28	0.30	0.30	0.32	0.33	0.33	0.33	0.33	0.33	0.33	0.33
-90	0.07	0.12	0.17	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.19	0.18	0.18	0.17
-80	0.07	0.19	0.32	0.66	1.16	1.95	3.28	4.47	5.95	7.66	9.22	10.8	12.4	13.7	14.9	15.4	15.7	15.9	16.0
-70	0.07	0.26	1.03	2.64	5.12	8.62	12.8	17.2	22.0	27.0	32.1	36.8	41.5	44.7	46.5	47.6	48.2	48.7	48.7
-60	0.07	0.52	2.40	6.04	11.5	18.0	26.1	34.8	43.8	52.7	60.1	67.2	74.1	79.9	84.4	88.3	90.7	92.5	93.3
-50	0.07	0.86	4.14	10.2	18.5	28.3	40.0	52.4	64.8	77.1	89.2	102	115	128	140	151	157	161	162
-40	0.07	1.14	6.06	14.4	25.7	38.5	52.2	68.2	86.4	105	126	151	181	213	247	283	307	320	326
-30	0.07	1.56	7.93	18.4	31.9	46.9	63.8	83.9	108	136	175	226	292	372	452	525	588	618	629
-20	0.07	1.94	9.43	21.6	36.8	53.5	73.6	98.5	128	167	228	320	434	558	689	819	919	979	997
-10	0.07	2.16	10.3	23.8	39.8	58.1	80.8	108	142	192	274	392	538	703	878	1033	1136	1180	1182
0	0.07	2.22	10.6	24.5	40.8	59.8	83.3	112	147	205	295	426	585	768	947	1083	1165	1200	1204
10	0.07	2.15	10.4	23.8	40.0	58.3	80.6	108	141	191	270	384	526	688	854	1006	1114	1171	1191
20	0.07	1.92	9.51	21.7	37.1	53.8	73.6	97.5	126	164	220	300	401	522	645	760	862	930	954
30	0.07	1.53	7.96	18.6	32.2	47.4	64.2	83.4	105	130	164	208	265	330	402	472	525	566	577
40	0.07	1.10	6.00	14.6	25.9	39.1	52.8	67.3	82.5	99.0	118	139	163	190	220	247	272	288	290
50	0.07	0.81	4.04	10.4	18.6	28.7	39.8	51.1	61.8	72.3	82.9	93.3	104	116	126	135	142	146	147
60	0.07	0.47	2.27	5.93	11.3	17.5	24.8	32.8	40.6	47.8	54.4	60.4	66.2	71.2	74.7	78.3	81.4	82.6	82.3
70	0.07	0.21	0.90	2.49	4.97	7.93	11.6	15.3	19.4	23.4	27.2	31.2	34.9	37.4	38.9	40.4	41.5	41.6	41.2
80	0.07	0.14	0.20	0.53	0.99	1.48	2.30	3.17	4.25	5.21	6.00	7.04	8.12	8.91	9.61	9.97	10.1	10.3	10.4
90	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
100	0.07	0.07	0.08	0.08	0.09	0.10	0.12	0.13	0.14	0.15	0.15	0.16	0.17	0.17	0.18	0.18	0.18	0.19	0.19
110	0.07	0.08	0.09	0.11	0.13	0.15	0.18	0.20	0.23	0.25	0.28	0.30	0.31	0.33	0.35	0.36	0.37	0.39	0.40
120	0.07	0.08	0.11	0.14	0.17	0.21	0.25	0.30	0.34	0.38	0.43	0.48	0.52	0.56	0.60	0.65	0.68	0.70	0.72
130	0.07	0.09	0.12	0.17	0.22	0.27	0.34	0.40	0.48	0.55	0.64	0.73	0.83	0.93	1.03	1.13	1.20	1.25	1.29
140	0.07	0.09	0.14	0.19	0.26	0.33	0.42	0.52	0.64	0.77	0.93	1.10	1.31	1.51	1.71	1.91	2.06	2.15	2.20
150	0.07	0.10	0.15	0.22	0.30	0.39	0.51	0.64	0.81	1.03	1.30	1.60	1.93	2.29	2.59	2.80	3.19	3.36	3.40
160	0.07	0.10	0.16	0.24	0.33	0.44	0.58	0.76	0.99	1.30	1.67	2.12	2.61	3.10	3.56	3.94	4.27	4.50	4.56
170	0.07	0.10	0.17	0.25	0.35	0.47	0.63	0.84	1.14	1.52	1.99	2.54	3.12	3.70	4.21	4.70	5.11	5.70	5.83
180	0.07	0.10	0.17	0.25	0.35	0.48	0.64	0.87	1.18	1.60	2.11	2.71	3.34	3.97	4.61	5.30	6.16	7.07	7.61

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Fabian Loaiza
Test Date:2023-07-10

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:39-MIN:31%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 23-0613-5-A TAYRONA I 32 LED's
Driver INVENTRONICS EUM-100S105BG
Modulo LED 2X8 Z15 5050 4K SAMSUNG

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.07V I:0.4601A P:99.943W PF:0.9870 Freq:60.01Hz Lamp Flux:14398.9x1 lm		
NAME: ANEXO 23-0613-5-A TAYRONA I 32 LED's	TYPE:Alumbrado Publico	WEIGHT:------
SPEC.:32 LED's	DIM.: -----	SERIAL No.:23-0613-5
MFR.: ROY ALPHA S.A	SUR.:-----	Shielding Angle:-----

Table--2 UNIT: ¡Á10cd

H(DEG) / V(DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-180	7.62	7.17	6.61	6.05	5.45	4.81	4.15	3.48	2.80	2.19	1.66	1.24	0.93	0.68	0.50	0.35	0.24	0.18
-170	7.14	6.80	6.48	5.99	5.35	4.66	4.00	3.32	2.66	2.08	1.59	1.20	0.90	0.67	0.49	0.35	0.24	0.18
-160	6.20	5.99	5.62	5.17	4.66	4.10	3.51	2.91	2.35	1.85	1.43	1.09	0.83	0.63	0.46	0.33	0.23	0.18
-150	4.84	4.65	4.40	4.06	3.67	3.25	2.78	2.32	1.89	1.52	1.21	0.95	0.74	0.57	0.43	0.32	0.22	0.18
-140	3.40	3.27	3.09	2.87	2.59	2.30	2.00	1.70	1.43	1.18	0.97	0.79	0.63	0.50	0.38	0.29	0.21	0.18
-130	2.11	2.04	1.93	1.81	1.66	1.49	1.33	1.17	1.02	0.88	0.75	0.63	0.52	0.42	0.34	0.26	0.20	0.18
-120	1.21	1.18	1.12	1.06	0.99	0.92	0.85	0.78	0.71	0.63	0.55	0.48	0.41	0.35	0.29	0.24	0.19	0.18
-110	0.66	0.65	0.63	0.61	0.59	0.56	0.53	0.49	0.46	0.43	0.38	0.35	0.31	0.27	0.24	0.21	0.18	0.18
-100	0.33	0.34	0.33	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.25	0.24	0.22	0.21	0.20	0.19	0.19	0.18
-90	0.18	0.19	0.20	0.21	0.21	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.19	0.19	0.18
-80	15.9	15.6	15.5	15.1	14.3	13.3	11.9	10.4	8.85	7.15	5.72	4.48	3.01	2.00	1.23	0.65	0.39	0.18
-70	48.5	47.9	47.3	46.2	44.3	41.6	38.2	33.8	28.4	23.8	19.4	15.0	10.9	7.13	4.07	1.89	0.57	0.18
-60	92.5	90.5	87.8	83.7	79.1	73.8	68.0	60.9	53.1	45.7	38.0	29.2	20.8	14.0	8.29	3.76	1.01	0.18
-50	160	156	149	138	127	115	102	89.3	77.8	67.1	55.8	43.4	31.6	21.6	12.9	5.90	1.54	0.18
-40	317	302	277	242	210	179	150	126	106	88.5	71.6	55.6	41.8	29.2	17.5	8.09	1.98	0.18
-30	606	571	510	440	362	286	224	176	139	111	87.7	67.8	50.3	35.5	21.6	10.1	2.50	0.18
-20	969	904	807	682	553	430	321	234	174	132	103	78.1	57.0	39.8	24.7	11.6	2.94	0.18
-10	1163	1120	1026	879	707	546	404	289	203	149	113	84.7	61.0	42.2	26.4	12.4	3.19	0.18
0	1195	1163	1086	953	776	594	437	305	212	152	115	85.9	61.7	42.4	26.7	12.5	3.23	0.18
10	1181	1138	1038	891	725	559	411	289	201	147	112	83.7	60.3	41.7	26.1	12.3	3.15	0.18
20	940	887	792	679	556	432	325	237	174	131	102	76.6	55.7	39.0	24.1	11.3	2.87	0.18
30	576	542	495	428	355	289	224	174	137	110	86.9	66.5	49.2	34.3	20.9	9.70	2.41	0.18
40	291	279	257	232	201	172	147	124	104	86.1	69.8	54.5	40.9	28.2	16.8	7.63	1.86	0.18
50	147	144	137	130	120	109	96.8	86.4	75.6	64.3	52.7	41.4	30.9	20.9	12.2	5.46	1.42	0.18
60	82.9	82.0	79.4	76.4	73.8	68.9	62.6	56.7	50.6	42.7	34.5	26.8	19.7	13.3	7.58	3.37	0.91	0.18
70	42.0	42.1	41.3	40.2	39.2	36.8	32.5	28.6	25.3	21.3	17.1	13.2	9.81	6.52	3.65	1.60	0.49	0.18
80	10.5	10.5	10.5	10.2	9.63	8.97	7.98	7.03	6.32	5.39	4.25	3.29	2.37	1.73	1.00	0.47	0.31	0.18
90	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.09	0.09	0.09	0.13	0.18
100	0.19	0.18	0.18	0.18	0.17	0.17	0.16	0.15	0.14	0.13	0.12	0.11	0.09	0.08	0.08	0.07	0.13	0.18
110	0.39	0.38	0.37	0.36	0.34	0.32	0.30	0.28	0.25	0.22	0.20	0.17	0.14	0.12	0.10	0.09	0.13	0.18
120	0.71	0.69	0.67	0.63	0.58	0.54	0.49	0.44	0.39	0.34	0.30	0.25	0.20	0.16	0.13	0.11	0.14	0.18
130	1.27	1.23	1.18	1.07	0.96	0.85	0.75	0.65	0.56	0.48	0.40	0.33	0.26	0.20	0.15	0.15	0.16	0.18
140	2.17	2.11	1.98	1.79	1.58	1.35	1.13	0.94	0.78	0.63	0.51	0.41	0.32	0.24	0.18	0.19	0.17	0.18
150	3.35	3.29	3.08	2.76	2.39	1.99	1.64	1.32	1.04	0.80	0.63	0.49	0.38	0.28	0.26	0.23	0.19	0.18
160	4.51	4.41	4.14	3.73	3.22	2.69	2.17	1.69	1.29	0.97	0.74	0.56	0.46	0.41	0.34	0.27	0.21	0.18
170	5.74	5.31	4.86	4.38	3.81	3.17	2.53	1.96	1.49	1.27	1.05	0.86	0.70	0.55	0.42	0.31	0.22	0.18
180	7.62	7.17	6.61	6.05	5.45	4.81	4.15	3.48	2.80	2.19	1.66	1.24	0.93	0.68	0.50	0.35	0.24	0.18

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Fabian Loaiza
Test Date:2023-07-10

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:39-MIN:31%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 23-0613-5-A TAYRONA I 32 LED's
Driver INVENTRONICS EUM-100S105BG
Modulo LED 2X8 Z15 5050 4K SAMSUNG

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	12020	12020	12020	12020	12020	12020	12020	12020	12020	12020
2.0	12002	11996	11991	11989	11987	11991	11993	11997	12001	11999
4.0	11968	11955	11942	11939	11938	11948	11956	11970	11986	11991
6.0	11903	11885	11870	11871	11875	11891	11906	11932	11954	11977
8.0	11788	11777	11767	11780	11790	11812	11834	11867	11892	11926
10.0	11612	11615	11615	11645	11662	11699	11722	11762	11783	11820
12.0	11368	11387	11397	11446	11470	11519	11546	11593	11612	11648
14.0	11046	11076	11087	11155	11182	11248	11279	11340	11356	11393
16.0	10633	10665	10671	10752	10782	10867	10897	10975	10991	11033
18.0	10124	10154	10146	10238	10267	10369	10404	10492	10504	10565
20.0	9517	9545	9526	9619	9655	9770	9801	9894	9899	9977
22.0	8840	8856	8828	8924	8967	9093	9117	9203	9208	9300
24.0	8116	8128	8086	8193	8240	8368	8384	8462	8458	8560
26.0	7376	7387	7350	7456	7502	7626	7632	7703	7691	7795
28.0	6641	6658	6623	6730	6775	6899	6893	6949	6929	7031
30.0	5934	5955	5931	6035	6078	6190	6169	6221	6194	6296
32.0	5273	5294	5268	5369	5410	5510	5488	5531	5508	5593
34.0	4653	4679	4656	4746	4779	4867	4846	4890	4873	4953
36.0	4067	4106	4087	4159	4187	4271	4248	4301	4279	4349
38.0	3526	3574	3566	3625	3643	3716	3704	3754	3720	3777
40.0	3042	3095	3095	3147	3155	3221	3213	3253	3217	3258
42.0	2620	2703	2678	2754	2728	2816	2781	2841	2775	2841
44.0	2266	2311	2323	2361	2365	2411	2413	2429	2401	2423
46.0	1968	2009	2024	2060	2061	2100	2102	2117	2089	2104
48.0	1722	1759	1772	1805	1806	1841	1842	1855	1829	1839
50.0	1520	1552	1564	1593	1595	1624	1628	1636	1616	1624
52.0	1353	1379	1389	1416	1416	1442	1446	1453	1437	1445
54.0	1206	1234	1239	1263	1263	1285	1292	1299	1291	1297
56.0	1086	1107	1115	1131	1138	1153	1165	1167	1167	1167
58.0	972.5	992.3	991.6	1015	1014	1035	1038	1048	1043	1048
60.0	857.9	882.1	887.8	911.7	910.7	932.8	935.0	938.8	930.4	933.4
62.0	754.9	777.6	786.9	818.3	818.6	839.6	838.9	834.6	825.0	825.8
64.0	659.4	683.5	697.1	732.7	734.4	753.7	750.5	741.3	729.5	729.4
66.0	572.1	594.7	612.7	654.7	654.7	673.3	667.9	654.5	640.9	639.9
68.0	494.3	516.6	533.7	579.2	578.5	596.0	589.8	575.2	561.5	560.4
70.0	423.8	445.2	461.3	504.9	502.5	520.9	516.1	503.6	488.8	487.2
72.0	358.7	378.9	391.7	430.6	426.6	446.6	443.8	435.2	421.8	419.1
74.0	296.7	313.9	323.5	354.7	350.4	371.6	370.9	366.0	356.0	353.7
76.0	235.8	251.9	258.5	283.9	278.6	296.5	299.2	298.0	288.4	289.1
78.0	177.4	189.9	198.8	213.2	215.1	231.5	231.5	233.4	224.8	224.5
80.0	125.1	137.7	144.6	155.3	157.9	166.5	168.4	168.9	160.4	159.8
82.0	79.71	91.51	100.2	105.0	109.7	112.6	115.7	110.8	108.8	102.4
84.0	44.95	53.17	55.85	62.33	61.65	65.37	63.04	63.55	57.56	57.15
86.0	19.53	24.14	25.41	28.12	27.77	30.97	30.27	30.85	26.11	19.67
88.0	5.620	7.285	7.215	8.335	8.116	9.685	8.963	9.859	6.922	4.003
90.0	1.804	1.926	1.994	2.068	2.087	2.143	2.043	2.128	1.862	1.746
92.0	1.840	1.845	1.875	1.889	1.888	1.874	1.850	1.827	1.795	1.795
94.0	2.177	2.158	2.195	2.199	2.226	2.188	2.177	2.134	2.130	2.104
96.0	2.572	2.545	2.583	2.581	2.610	2.565	2.558	2.508	2.510	2.458
98.0	3.013	2.970	3.022	3.006	3.045	2.987	2.989	2.925	2.931	2.858
100.0	3.501	3.449	3.502	3.482	3.528	3.457	3.456	3.393	3.400	3.316
102.0	4.041	3.978	4.037	4.008	4.053	3.972	3.979	3.902	3.913	3.876
104.0	4.637	4.555	4.627	4.588	4.643	4.539	4.553	4.463	4.505	4.447
106.0	5.302	5.201	5.278	5.226	5.286	5.171	5.188	5.091	5.146	5.095
108.0	6.033	5.935	5.996	5.928	5.991	5.852	5.869	5.774	5.859	5.823
110.0	6.833	6.751	6.782	6.752	6.780	6.640	6.624	6.573	6.648	6.658
112.0	7.710	7.639	7.649	7.629	7.613	7.491	7.428	7.418	7.519	7.562
114.0	8.702	8.611	8.639	8.583	8.576	8.397	8.322	8.348	8.525	8.577
116.0	9.795	9.696	9.713	9.643	9.635	9.403	9.363	9.398	9.623	9.698
118.0	11.02	10.88	10.92	10.81	10.80	10.56	10.54	10.54	10.83	10.94
120.0	12.40	12.20	12.27	12.11	12.13	11.87	11.90	11.85	12.16	12.29
122.0	13.92	13.74	13.76	13.60	13.62	13.38	13.42	13.34	13.66	13.79
124.0	15.61	15.41	15.39	15.25	15.23	15.02	15.07	15.03	15.25	15.46
126.0	17.51	17.25	17.25	17.07	17.07	16.85	16.92	16.87	17.08	17.25
128.0	19.59	19.29	19.29	19.08	19.12	18.84	18.94	18.86	19.09	19.22
130.0	21.82	21.49	21.53	21.27	21.35	21.03	21.15	21.04	21.28	21.37
132.0	24.20	23.90	23.92	23.68	23.75	23.40	23.52	23.37	23.63	23.71
134.0	26.66	26.43	26.42	26.24	26.25	25.93	26.00	25.89	26.08	26.26
136.0	29.28	29.04	29.11	28.89	28.93	28.54	28.66	28.48	28.72	28.90
138.0	31.96	31.76	31.90	31.67	31.70	31.27	31.41	31.20	31.47	31.67
140.0	34.71	34.56	34.72	34.54	34.52	34.08	34.24	34.04	34.32	34.56
142.0	37.45	37.35	37.58	37.39	37.35	36.94	37.11	36.90	37.23	37.50
144.0	40.13	40.13	40.39	40.27	40.22	39.87	40.00	39.84	40.17	40.46
146.0	42.79	42.84	43.21	43.18	43.09	42.76	42.87	42.77	43.11	43.42

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Fabian Loaiza
Test Date:2023-07-10

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:39-MIN:31%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 23-0613-5-A TAYRONA I 32 LED's
Driver INVENTRONICS EUM-100S105BG
Modulo LED 2X8 Z15 5050 4K SAMSUNG

Photometric Data Table [cd]

148.0	45.36	45.51	46.00	46.03	45.95	45.67	45.73	45.69	46.04	46.33
150.0	48.04	48.32	48.90	49.00	48.97	48.63	48.75	48.68	49.01	49.22
152.0	50.46	50.97	51.68	51.81	51.80	51.44	51.61	51.52	51.84	51.91
154.0	53.03	53.61	54.58	54.59	54.45	54.20	54.57	54.35	54.72	54.62
156.0	55.75	56.69	57.62	57.75	56.95	57.38	57.61	57.60	57.79	57.78
158.0	58.11	59.19	60.16	60.27	59.40	59.96	60.22	60.20	60.33	60.26
160.0	60.44	61.59	62.66	62.69	61.77	62.36	62.75	62.65	62.73	62.58
162.0	62.66	63.96	65.04	65.01	64.01	64.54	65.11	64.94	65.00	64.76
164.0	64.86	66.30	67.26	67.27	66.17	66.33	67.18	66.98	66.95	66.64
166.0	67.09	68.63	69.40	69.35	68.26	67.89	69.14	68.86	68.64	68.36
168.0	69.32	70.89	71.41	71.21	70.49	69.43	70.87	70.51	70.39	69.99
170.0	71.54	73.10	73.13	72.75	72.38	70.84	72.38	71.93	71.73	71.26
172.0	73.67	74.93	74.49	74.06	73.87	72.73	73.45	72.98	72.67	72.30
174.0	75.62	76.17	75.31	74.97	74.77	74.40	74.15	73.65	73.34	73.08
176.0	76.51	76.67	75.71	75.48	75.23	74.83	74.46	73.96	73.69	73.46
178.0	76.53	76.40	75.44	75.28	74.98	74.46	74.15	73.63	73.47	73.17
180.0	75.99	75.36	74.71	74.58	72.18	73.68	73.42	72.96	72.87	72.59

G/C	100.0	110.0	120.0	130.0	140.0	150.0	160.0	170.0	180.0	190.0
0.0	12020	12020	12020	12020	12020	12020	12020	12020	12020	12020
2.0	11999	11998	11999	11996	11994	11996	11995	11999	12026	12026
4.0	12001	12000	12000	11991	11981	11972	11959	11959	12008	12000
6.0	11997	12004	12006	11989	11962	11928	11892	11883	11946	11927
8.0	11955	11980	11985	11963	11908	11848	11779	11753	11821	11794
10.0	11851	11894	11903	11884	11804	11713	11604	11558	11629	11597
12.0	11671	11727	11738	11725	11621	11503	11358	11294	11364	11328
14.0	11404	11464	11468	11459	11337	11207	11034	10954	11023	10977
16.0	11034	11091	11080	11070	10933	10803	10612	10528	10596	10531
18.0	10559	10612	10576	10559	10405	10288	10092	10009	10072	9989
20.0	9972	10030	9960	9936	9773	9665	9476	9395	9458	9357
22.0	9298	9357	9272	9231	9062	8967	8786	8707	8771	8649
24.0	8569	8635	8534	8487	8318	8234	8054	7985	8040	7910
26.0	7811	7886	7785	7741	7568	7493	7314	7247	7290	7163
28.0	7054	7135	7049	7007	6841	6764	6589	6515	6553	6428
30.0	6316	6407	6330	6303	6151	6066	5892	5813	5844	5726
32.0	5613	5701	5641	5630	5484	5405	5239	5151	5175	5071
34.0	4961	5035	4986	4991	4856	4784	4625	4533	4547	4451
36.0	4352	4418	4376	4389	4267	4202	4045	3948	3955	3880
38.0	3780	3850	3808	3823	3716	3665	3507	3416	3421	3356
40.0	3261	3337	3296	3311	3221	3178	3024	2945	2947	2896
42.0	2809	2908	2844	2889	2782	2773	2605	2530	2530	2499
44.0	2425	2480	2461	2467	2409	2368	2253	2186	2189	2165
46.0	2108	2151	2137	2141	2092	2055	1958	1901	1902	1885
48.0	1845	1882	1869	1868	1829	1796	1714	1666	1666	1655
50.0	1629	1658	1647	1643	1610	1580	1512	1473	1472	1462
52.0	1449	1472	1463	1455	1426	1400	1346	1314	1313	1303
54.0	1298	1314	1305	1294	1271	1248	1210	1179	1178	1175
56.0	1172	1178	1177	1156	1144	1117	1075	1059	1058	1047
58.0	1045	1058	1048	1034	1017	1000	961.4	944.6	944.4	936.1
60.0	932.1	947.4	943.1	928.8	912.5	896.5	851.6	833.6	831.4	828.2
62.0	824.8	841.2	846.9	834.7	818.3	797.8	750.0	733.6	731.8	731.8
64.0	730.6	745.5	760.1	746.6	733.3	707.4	659.6	640.5	638.6	641.4
66.0	642.5	660.4	679.2	663.3	653.5	623.9	576.3	557.7	555.2	559.7
68.0	564.1	580.8	601.4	583.7	577.0	545.9	501.2	482.9	479.1	485.2
70.0	492.0	507.9	525.9	504.3	499.6	470.4	430.3	411.2	407.5	415.1
72.0	423.0	437.1	449.3	427.4	418.6	395.1	359.7	344.1	339.8	347.6
74.0	355.6	365.8	368.5	351.8	340.1	321.0	291.1	279.0	276.2	279.7
76.0	288.8	295.7	292.8	281.3	264.6	254.3	227.8	214.0	212.6	216.1
78.0	225.0	231.1	221.9	210.9	198.8	187.7	170.3	158.3	155.3	159.1
80.0	160.7	166.5	159.4	152.6	142.4	133.4	122.3	109.5	105.7	113.0
82.0	109.3	108.6	107.7	100.5	96.24	86.41	74.41	67.66	63.56	66.82
84.0	58.06	61.56	56.09	55.49	50.33	47.65	39.14	35.64	32.55	34.15
86.0	24.99	28.90	25.05	24.16	19.90	18.92	14.95	13.32	11.75	11.93
88.0	6.346	8.546	6.576	6.583	5.194	5.003	3.822	3.411	2.358	2.194
90.0	1.823	2.013	1.924	1.913	1.932	1.773	1.796	1.748	0.6652	0.6955
92.0	1.827	1.864	1.930	1.959	1.994	1.980	1.980	1.957	0.7649	0.7666
94.0	2.141	2.193	2.273	2.303	2.344	2.322	2.337	2.311	0.9414	0.9580
96.0	2.506	2.570	2.666	2.692	2.753	2.727	2.749	2.710	1.155	1.181
98.0	2.914	2.990	3.100	3.124	3.204	3.171	3.205	3.159	1.400	1.421
100.0	3.367	3.455	3.585	3.607	3.706	3.665	3.714	3.658	1.670	1.710
102.0	3.904	3.964	4.122	4.148	4.264	4.223	4.279	4.213	1.979	2.023
104.0	4.542	4.538	4.720	4.740	4.888	4.832	4.900	4.823	2.314	2.370
106.0	5.202	5.184	5.387	5.410	5.567	5.513	5.587	5.508	2.678	2.741
108.0	5.920	5.887	6.115	6.166	6.328	6.279	6.343	6.292	3.076	3.146
110.0	6.724	6.730	6.927	7.017	7.143	7.129	7.152	7.147	3.509	3.580

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Fabian Loaiza
Test Date:2023-07-10

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:39-MIN:31%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 23-0613-5-A TAYRONA I 32 LED's
Driver INVENTRONICS EUM-100S105BG
Modulo LED 2X8 Z15 5050 4K SAMSUNG

Photometric Data Table [cd]

112.0	7.612	7.632	7.822	7.938	8.086	8.033	8.054	8.065	3.985	4.062
114.0	8.638	8.639	8.864	8.976	9.147	9.041	9.061	9.087	4.509	4.589
116.0	9.762	9.788	10.02	10.13	10.31	10.16	10.20	10.20	5.079	5.167
118.0	11.00	11.04	11.30	11.41	11.59	11.41	11.48	11.45	5.706	5.797
120.0	12.33	12.40	12.73	12.80	13.02	12.84	12.94	12.86	6.439	6.517
122.0	13.74	13.95	14.29	14.38	14.58	14.42	14.56	14.47	7.264	7.315
124.0	15.33	15.62	15.95	16.08	16.25	16.19	16.33	16.25	8.179	8.213
126.0	17.19	17.44	17.81	17.92	18.15	18.10	18.30	18.18	9.226	9.273
128.0	19.22	19.38	19.82	19.90	20.22	20.17	20.44	20.28	10.42	10.48
130.0	21.42	21.49	22.00	22.08	22.47	22.41	22.71	22.53	11.78	11.84
132.0	23.79	23.76	24.34	24.41	24.87	24.84	25.14	24.98	13.34	13.38
134.0	26.24	26.20	26.78	26.93	27.34	27.39	27.65	27.53	15.02	15.01
136.0	28.90	28.75	29.39	29.48	29.98	30.02	30.31	30.13	16.87	16.83
138.0	31.64	31.43	32.07	32.18	32.66	32.75	33.05	32.84	18.88	18.82
140.0	34.51	34.21	34.79	34.92	35.38	35.50	35.79	35.60	21.07	21.00
142.0	37.41	37.03	37.55	37.68	38.11	38.26	38.55	38.35	23.38	23.31
144.0	40.33	39.87	40.31	40.47	40.84	40.92	41.26	41.03	25.80	25.74
146.0	43.21	42.67	43.04	43.12	43.55	43.54	43.91	43.62	28.31	28.21
148.0	46.06	45.45	45.75	45.77	46.23	46.16	46.45	46.15	30.81	30.67
150.0	49.00	48.32	48.58	48.50	48.98	48.86	49.13	48.76	33.33	33.17
152.0	51.74	51.02	51.17	51.05	51.40	51.36	51.53	51.16	35.85	35.64
154.0	54.59	53.66	53.89	53.52	53.99	53.69	54.08	53.48	38.39	38.08
156.0	57.63	56.87	56.85	56.59	56.72	56.52	56.66	56.31	40.92	40.39
158.0	60.10	59.34	59.22	58.86	58.94	58.65	58.74	58.43	43.42	42.67
160.0	62.46	61.66	61.52	61.07	61.04	60.69	60.74	60.43	46.00	45.08
162.0	64.58	63.88	63.66	63.22	63.08	62.68	62.64	62.38	48.66	47.61
164.0	66.43	65.85	65.64	65.29	65.08	64.66	64.48	64.25	51.34	50.15
166.0	68.18	67.70	67.61	67.26	67.02	66.60	66.32	66.09	54.50	53.03
168.0	69.82	69.37	69.38	69.18	68.94	68.49	68.12	67.91	57.94	56.21
170.0	71.20	70.83	70.99	70.89	70.70	70.20	69.82	69.56	61.51	59.56
172.0	72.31	72.11	72.39	72.44	72.24	71.75	71.29	71.15	65.23	63.15
174.0	73.10	73.06	73.43	73.61	73.39	73.04	72.59	72.55	69.09	67.03
176.0	73.45	73.62	74.09	74.34	74.08	73.85	73.39	73.40	72.09	70.60
178.0	73.24	73.48	74.08	74.21	73.96	73.66	73.26	73.23	74.24	73.23
180.0	72.63	72.92	73.46	73.55	73.25	72.95	72.55	72.58	75.97	75.31

G/C	200.0	210.0	220.0	230.0	240.0	250.0	260.0	270.0	280.0	290.0
0.0	12020	12020	12020	12020	12020	12020	12020	12020	12020	12020
2.0	12029	12029	12034	12035	12040	12047	12051	12058	12065	12067
4.0	12005	12008	12021	12031	12049	12066	12082	12096	12108	12114
6.0	11940	11949	11979	11999	12033	12059	12086	12102	12125	12126
8.0	11821	11843	11893	11922	11971	12002	12038	12049	12075	12073
10.0	11642	11677	11746	11778	11836	11863	11910	11911	11942	11932
12.0	11386	11428	11508	11533	11601	11622	11680	11673	11705	11687
14.0	11039	11073	11156	11167	11242	11263	11331	11317	11357	11334
16.0	10590	10602	10681	10676	10758	10777	10858	10838	10893	10868
18.0	10031	10018	10087	10071	10158	10168	10257	10241	10311	10289
20.0	9377	9347	9410	9381	9469	9472	9563	9546	9629	9621
22.0	8666	8611	8671	8638	8724	8717	8805	8786	8888	8900
24.0	7915	7854	7911	7882	7959	7941	8022	8001	8115	8135
26.0	7169	7109	7172	7136	7208	7176	7245	7223	7347	7376
28.0	6440	6388	6453	6418	6479	6435	6490	6469	6596	6632
30.0	5741	5700	5762	5727	5771	5729	5781	5769	5884	5917
32.0	5087	5051	5110	5066	5107	5068	5132	5121	5223	5249
34.0	4475	4437	4489	4449	4483	4455	4525	4500	4600	4619
36.0	3911	3869	3917	3872	3910	3894	3946	3911	4007	4037
38.0	3394	3359	3394	3350	3388	3376	3408	3371	3460	3496
40.0	2937	2907	2934	2894	2934	2913	2938	2900	2974	3010
42.0	2532	2517	2532	2503	2531	2517	2530	2500	2593	2594
44.0	2197	2187	2200	2174	2199	2183	2192	2164	2212	2242
46.0	1916	1908	1919	1898	1919	1903	1910	1885	1926	1950
48.0	1680	1676	1685	1669	1685	1672	1676	1656	1689	1708
50.0	1484	1481	1489	1474	1490	1477	1482	1466	1492	1507
52.0	1318	1318	1324	1312	1325	1316	1323	1310	1331	1339
54.0	1178	1186	1180	1180	1184	1184	1187	1180	1194	1204
56.0	1055	1055	1056	1049	1061	1052	1065	1051	1071	1070
58.0	946.2	945.3	949.0	942.2	951.5	941.0	948.8	932.7	952.9	957.8
60.0	844.6	848.0	852.6	846.7	851.2	836.8	839.1	823.5	844.0	851.0
62.0	749.2	758.4	763.6	757.8	760.0	740.5	739.9	723.9	745.2	753.5
64.0	663.8	677.3	682.6	675.3	675.9	650.8	647.9	633.1	653.4	664.8
66.0	582.7	601.9	603.7	596.2	596.8	570.3	566.3	551.9	571.9	583.8
68.0	507.2	528.1	527.4	521.2	521.8	498.8	492.6	478.9	499.0	510.9
70.0	436.2	454.5	452.1	446.8	449.6	430.5	424.9	412.4	431.6	441.5
72.0	364.8	378.3	376.2	372.7	377.7	361.8	358.8	346.7	364.7	372.8
74.0	294.9	302.2	301.7	299.8	305.8	289.7	291.5	279.2	292.9	300.5

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Fabian Loaiza
Test Date:2023-07-10

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:39-MIN:31%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 23-0613-5-A TAYRONA I 32 LED's
Driver INVENTRONICS EUM-100S105BG
Modulo LED 2X8 Z15 5050 4K SAMSUNG

Photometric Data Table [cd]

76.0	231.6	231.7	236.4	229.2	236.1	221.7	224.3	213.3	227.0	231.0
78.0	168.5	169.4	171.2	166.0	166.7	159.2	157.2	152.5	161.2	166.9
80.0	117.1	119.9	116.8	115.9	111.4	110.7	104.3	104.2	108.4	116.8
82.0	72.99	70.54	70.76	65.74	66.59	62.35	60.69	56.05	63.76	66.94
84.0	37.38	34.84	35.23	32.03	32.93	30.22	29.30	26.87	31.53	33.63
86.0	13.09	11.36	11.46	9.505	10.17	8.901	8.729	7.714	10.00	10.68
88.0	2.455	1.917	1.808	1.265	1.245	1.154	1.135	0.9843	1.065	1.153
90.0	0.6996	0.7300	0.7232	0.7271	0.7199	0.7155	0.7018	0.6824	0.6857	0.7050
92.0	0.8048	0.8280	0.8660	0.8715	0.8879	0.8612	0.8612	0.8439	0.8587	0.8537
94.0	0.9969	1.036	1.073	1.084	1.094	1.077	1.069	1.060	1.065	1.071
96.0	1.221	1.271	1.309	1.332	1.334	1.322	1.309	1.300	1.304	1.319
98.0	1.468	1.529	1.568	1.590	1.597	1.588	1.565	1.566	1.558	1.586
100.0	1.750	1.822	1.859	1.890	1.891	1.883	1.864	1.868	1.862	1.893
102.0	2.057	2.142	2.175	2.209	2.207	2.210	2.184	2.199	2.214	2.233
104.0	2.401	2.486	2.512	2.541	2.540	2.550	2.533	2.582	2.589	2.602
106.0	2.767	2.854	2.868	2.905	2.897	2.928	2.977	3.052	3.002	3.003
108.0	3.156	3.249	3.255	3.296	3.275	3.325	3.382	3.505	3.446	3.446
110.0	3.590	3.675	3.670	3.719	3.693	3.767	3.821	4.005	3.922	3.915
112.0	4.063	4.143	4.132	4.189	4.168	4.260	4.336	4.540	4.450	4.445
114.0	4.582	4.664	4.640	4.715	4.685	4.807	4.908	5.102	5.023	5.017
116.0	5.149	5.240	5.201	5.292	5.256	5.418	5.524	5.719	5.620	5.640
118.0	5.765	5.864	5.814	5.928	5.882	6.091	6.208	6.401	6.296	6.344
120.0	6.491	6.576	6.530	6.652	6.626	6.842	7.008	7.159	7.097	7.126
122.0	7.306	7.360	7.352	7.445	7.457	7.672	7.873	7.995	7.954	7.977
124.0	8.207	8.255	8.258	8.342	8.401	8.658	8.849	8.999	8.942	9.013
126.0	9.230	9.296	9.277	9.389	9.468	9.773	9.936	10.13	10.06	10.17
128.0	10.38	10.48	10.43	10.60	10.66	11.04	11.19	11.43	11.32	11.49
130.0	11.71	11.81	11.73	11.97	12.02	12.42	12.57	12.88	12.74	12.96
132.0	13.18	13.30	13.22	13.48	13.55	13.95	14.12	14.42	14.32	14.55
134.0	14.84	14.92	14.88	15.11	15.22	15.59	15.82	16.10	16.01	16.26
136.0	16.63	16.70	16.67	16.93	17.06	17.43	17.64	17.96	17.87	18.15
138.0	18.57	18.68	18.61	18.90	19.08	19.42	19.62	19.96	19.87	20.20
140.0	20.72	20.83	20.73	21.06	21.23	21.56	21.77	22.03	21.98	22.45
142.0	23.00	23.08	22.96	23.36	23.33	23.86	24.03	24.26	24.25	24.79
144.0	25.40	25.47	25.34	25.84	24.41	26.26	26.42	26.72	26.52	27.28
146.0	27.89	27.94	27.87	28.35	26.74	28.75	29.00	29.28	29.09	29.78
148.0	30.42	30.48	30.46	30.82	29.14	31.26	31.54	31.65	31.54	32.27
150.0	32.96	33.06	33.06	33.30	31.50	33.79	34.06	34.05	33.95	34.80
152.0	35.53	35.63	35.52	35.74	35.56	36.27	36.47	36.45	36.50	37.17
154.0	37.99	37.97	37.87	38.11	38.25	38.66	38.80	38.68	38.87	39.52
156.0	40.22	40.19	40.13	40.16	40.60	41.03	41.08	40.95	41.16	41.81
158.0	42.36	42.39	42.32	40.92	42.93	43.32	43.40	43.25	43.33	44.01
160.0	44.62	44.61	44.57	45.02	45.22	45.64	45.68	45.59	45.53	46.18
162.0	46.99	46.94	46.94	47.43	47.59	48.02	47.97	47.88	47.85	48.37
164.0	49.49	49.34	49.27	49.79	49.96	50.34	50.20	50.16	50.16	50.60
166.0	52.32	52.10	52.00	50.21	52.70	52.92	52.73	52.65	52.76	53.18
168.0	55.57	55.26	55.09	53.17	55.66	55.78	55.60	55.44	55.60	56.01
170.0	58.91	58.54	58.25	56.30	58.70	58.75	58.51	58.35	58.49	58.87
172.0	62.48	62.12	61.72	59.68	61.92	61.86	61.69	61.57	61.58	61.88
174.0	66.22	65.92	65.43	63.20	65.33	65.20	65.19	65.01	64.92	65.09
176.0	69.74	69.32	68.78	68.73	68.54	68.28	68.44	68.28	68.13	68.20
178.0	72.56	72.31	71.57	71.49	71.22	70.88	70.89	70.71	70.76	70.93
180.0	74.73	74.53	72.19	73.65	73.42	72.92	72.86	72.57	72.63	72.87

G/C	300.0	310.0	320.0	330.0	340.0	350.0
0.0	12020	12020	12020	12020	12020	12020
2.0	12067	12067	12060	12054	12043	12032
4.0	12116	12113	12103	12080	12054	12025
6.0	12135	12125	12110	12073	12034	11982
8.0	12091	12081	12071	12014	11957	11881
10.0	11963	11957	11952	11881	11812	11708
12.0	11735	11730	11743	11659	11584	11459
14.0	11397	11395	11421	11336	11262	11130
16.0	10942	10938	10984	10902	10846	10718
18.0	10380	10371	10426	10351	10328	10211
20.0	9726	9707	9773	9712	9719	9612
22.0	9006	8979	9055	8998	9035	8939
24.0	8248	8225	8294	8252	8300	8218
26.0	7496	7476	7543	7500	7555	7477
28.0	6759	6745	6812	6767	6819	6738
30.0	6050	6040	6111	6068	6109	6027
32.0	5371	5376	5445	5400	5441	5361
34.0	4730	4740	4815	4772	4813	4733
36.0	4134	4144	4221	4184	4226	4142
38.0	3589	3599	3672	3645	3679	3589

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Fabian Loaiza
Test Date:2023-07-10

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:39-MIN:31%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 23-0613-5-A TAYRONA I 32 LED's
Driver INVENTRONICS EUM-100S105BG
Modulo LED 2X8 Z15 5050 4K SAMSUNG

Photometric Data Table [cd]

40.0	3107	3113	3181	3161	3180	3091
42.0	2713	2690	2778	2735	2770	2664
44.0	2320	2327	2376	2363	2360	2300
46.0	2014	2021	2063	2050	2045	1995
48.0	1760	1764	1800	1788	1783	1741
50.0	1549	1552	1581	1571	1566	1532
52.0	1373	1373	1398	1390	1386	1363
54.0	1225	1223	1242	1237	1234	1220
56.0	1096	1100	1109	1113	1104	1100
58.0	983.1	976.1	993.5	988.5	988.4	979.4
60.0	882.2	876.3	891.1	885.7	881.6	866.2
62.0	789.9	784.3	798.5	791.9	779.2	763.0
64.0	705.4	699.3	714.7	705.2	687.6	669.0
66.0	625.3	617.8	635.5	624.1	601.2	581.8
68.0	549.1	538.6	558.9	545.0	524.5	504.4
70.0	474.7	461.1	480.3	469.2	453.1	433.3
72.0	399.4	385.0	401.0	393.9	384.3	367.7
74.0	323.5	310.4	325.2	320.1	317.3	303.7
76.0	250.7	243.0	257.8	251.0	254.3	240.8
78.0	177.8	180.3	190.5	189.0	191.5	182.7
80.0	120.8	124.0	134.8	134.9	138.4	130.6
82.0	74.72	76.42	85.58	91.09	90.90	84.36
84.0	38.82	39.84	45.65	47.35	51.78	47.84
86.0	13.71	14.18	17.71	18.75	22.34	20.55
88.0	1.725	2.257	3.592	3.971	5.567	5.338
90.0	0.6936	0.7309	0.7489	0.7161	0.8649	0.8834
92.0	0.8657	0.8248	0.7966	0.7438	0.7283	0.6880
94.0	1.076	1.038	1.000	0.9456	0.8988	0.8456
96.0	1.320	1.283	1.236	1.178	1.116	1.057
98.0	1.591	1.553	1.496	1.435	1.367	1.303
100.0	1.898	1.859	1.796	1.735	1.636	1.566
102.0	2.238	2.206	2.135	2.067	1.953	1.870
104.0	2.600	2.568	2.494	2.427	2.297	2.203
106.0	2.996	2.955	2.878	2.812	2.652	2.569
108.0	3.416	3.375	3.282	3.216	3.042	2.962
110.0	3.875	3.825	3.722	3.644	3.469	3.394
112.0	4.361	4.323	4.184	4.115	3.929	3.866
114.0	4.903	4.856	4.697	4.634	4.443	4.382
116.0	5.480	5.441	5.262	5.208	5.006	4.947
118.0	6.129	6.082	5.876	5.840	5.621	5.567
120.0	6.912	6.809	6.614	6.573	6.337	6.271
122.0	7.770	7.615	7.448	7.377	7.160	7.052
124.0	8.744	8.558	8.383	8.309	8.067	7.910
126.0	9.867	9.665	9.450	9.393	9.100	8.946
128.0	11.14	10.94	10.66	10.62	10.28	10.13
130.0	12.57	12.38	12.03	12.01	11.63	11.48
132.0	14.20	13.98	13.61	13.58	13.20	12.99
134.0	15.95	15.72	15.33	15.27	14.89	14.61
136.0	17.87	17.62	17.23	17.16	16.75	16.49
138.0	19.96	19.72	19.26	19.23	18.78	18.52
140.0	22.21	21.97	21.47	21.47	21.00	20.72
142.0	24.60	24.39	23.86	23.82	23.35	23.04
144.0	27.14	26.95	26.39	26.32	25.83	25.50
146.0	29.76	29.59	29.08	28.94	28.44	28.07
148.0	32.39	32.36	31.77	31.64	31.10	30.71
150.0	35.04	35.03	34.45	34.39	33.82	33.40
152.0	37.60	37.64	37.13	37.04	36.57	36.12
154.0	40.02	40.10	39.67	39.57	39.19	38.78
156.0	42.34	42.43	42.05	41.95	41.71	41.31
158.0	44.52	44.66	44.25	44.24	44.06	43.78
160.0	46.73	46.85	46.38	46.47	46.30	46.21
162.0	48.93	49.04	48.52	48.67	48.52	48.59
164.0	51.11	51.18	50.62	50.75	50.65	50.91
166.0	53.60	53.62	52.99	53.05	52.99	53.37
168.0	56.42	56.38	55.72	55.73	55.63	56.06
170.0	59.31	59.27	58.57	58.59	58.53	58.90
172.0	62.34	62.39	61.70	61.74	61.61	61.98
174.0	65.59	65.68	65.07	65.05	64.93	65.36
176.0	68.58	68.66	68.15	68.03	67.90	68.41
178.0	71.29	71.34	70.89	70.75	70.40	70.81
180.0	73.44	73.53	73.24	72.94	72.53	72.57

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Fabian Loaiza
Test Date:2023-07-10

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:39-MIN:31%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 23-0613-5-A TAYRONA I 32 LED's
Driver INVENTRONICS EUM-100S105BG
Modulo LED 2X8 Z15 5050 4K SAMSUNG