

ANEXO 24-0270-3-A RALED II 48 LED RA10 170W

DRIVER ADVANCE XITANIUM 180W 0.1-1.25A 0-10V Dimming SimpleSet

MOD LED 2X8 Z15 5050 4K SEOUL (3 UND)

ABLE AP5P277MG



Light Output Ratio: 100.0%
Luminaire Power: 169.8 W

I80 = 85.1 cd per klm. I88 = 1.2 cd per klm.
I90 = 1.1 cd per klm. I80/I88 = 70.322

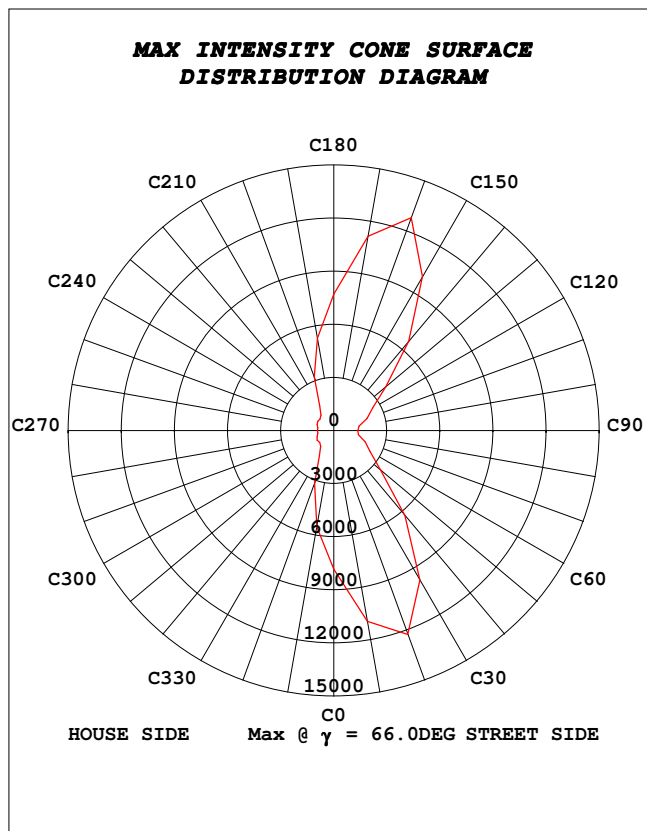
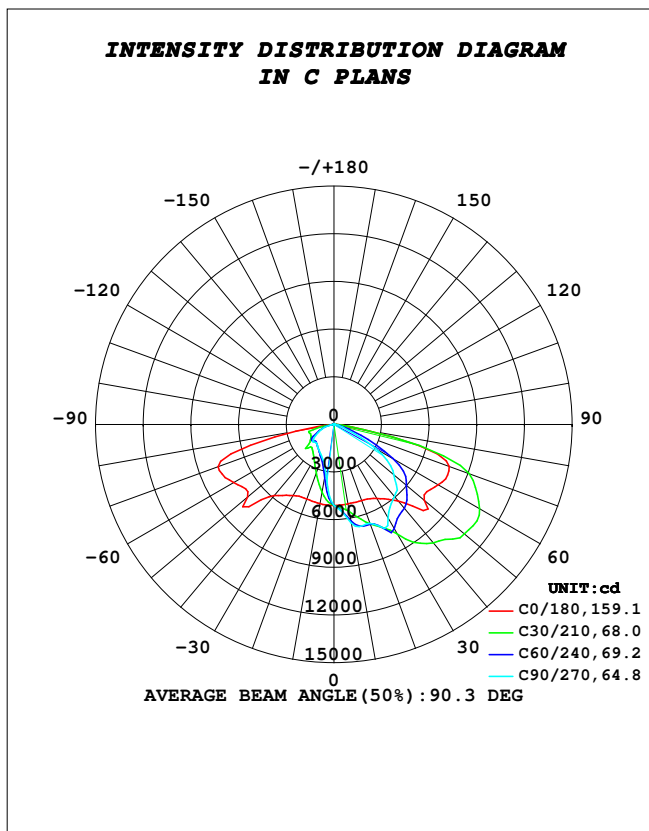
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25±1°CDEG
Operators: Sebastian Vidal
Test Date: 2024-04-25

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity: MAX: 52.0-MIN: 42.0%
Test Distance: 7.080m [K=1.0000]
Remarks: ANEXO 24-0270-3-A RALED II 48 LED
DRIVER ADVANCE XITANIUM 180W
MOD LED 2X8 Z15 5050 4K SEOUL
LENTE: RA10

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:220.39V I:0.7790A P:169.76W PF:0.9889 Freq:60.01Hz Lamp Flux:23209.6x1 lm		
NAME: ANEXO 24-0270-3-A RALED II 48 LED	TYPE: Alumbrado Publico	WEIGHT:-----
SPEC.: 48 LED 170W	DIM.: -----	SERIAL No.: 24-0270-3
MFR.: ROY ALPHA	SUR.: -----	Shielding Angle:-----

DATA OF LAMP		PHOTOMETRIC DATA Eff: 136.72 lm/W			
MODEL	2X8 Z15 5050	Imax(cd)	12803	η street_up(%)	0.3
NOMINAL POWER(W)	170	LOR(%)	100.0	η street_down(%)	71.8
RATED VOLTAGE(V)	-----	TOTAL FLUX(lm)	23210	η house_up(%)	0.7
NOMINAL FLUX(lm)	23209.6	MAXIMUM @ (C, γ)	160,66.0	η house_down(%)	27.1
LAMPS INSIDE	1	η up(%)	1.0	76 FLASHAREA(m2)	
TEST VOLTAGE(V)	220	η down(%)	99.0	SLI	

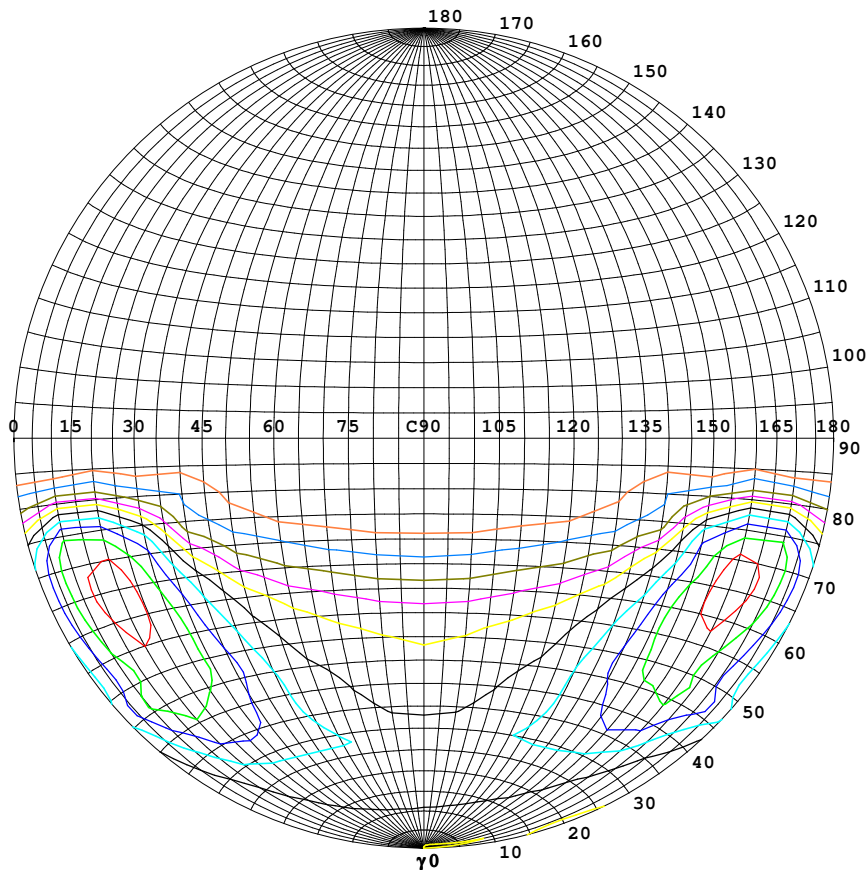


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25±1°C DEG
Operators: Sebastian Vidal
Test Date: 2024-04-25

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity: MAX: 52.0-MIN: 42.0%
Test Distance: 7.080m [K=1.0000]
Remarks: ANEXO 24-0270-3-A RALED II 48 LED
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MOD LED 2X8 Z15 5050 4K SEOUL
LENTE: RA10

STREETLIGHT ISOCANDELA DIAGRAM

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SPEC.:48 LED 170W	DIM.: -----	SERIAL No.:24-0270-3
MFR.: ROY APLHA	SUR.:-----	Shielding Angle:-----



Classification:

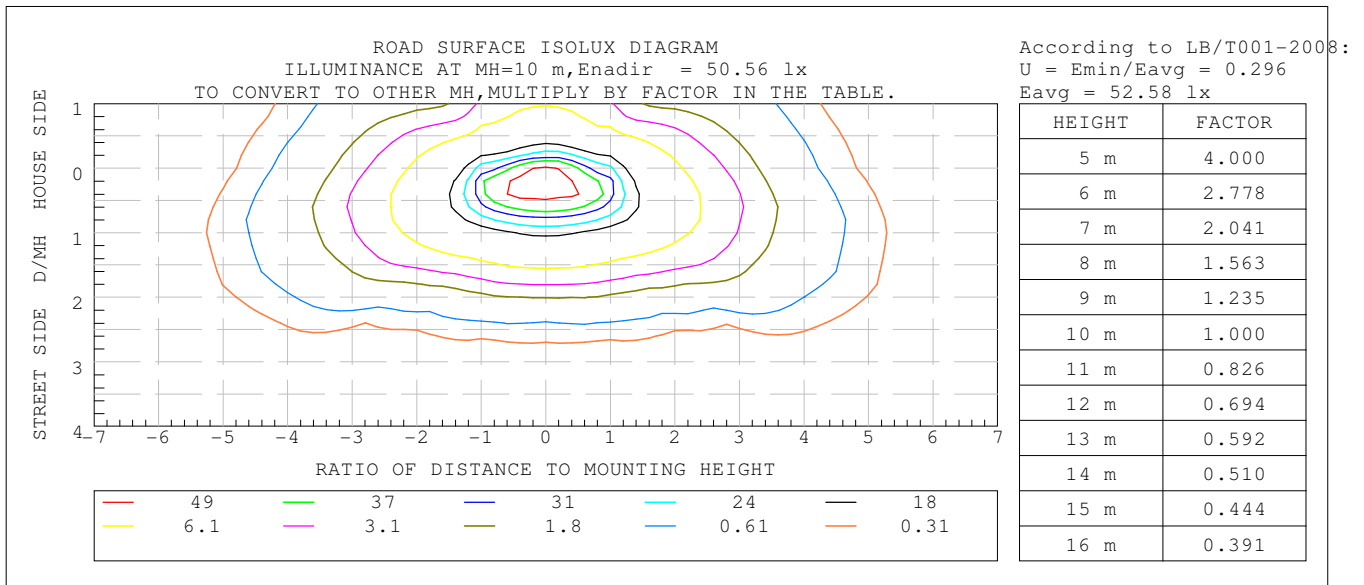
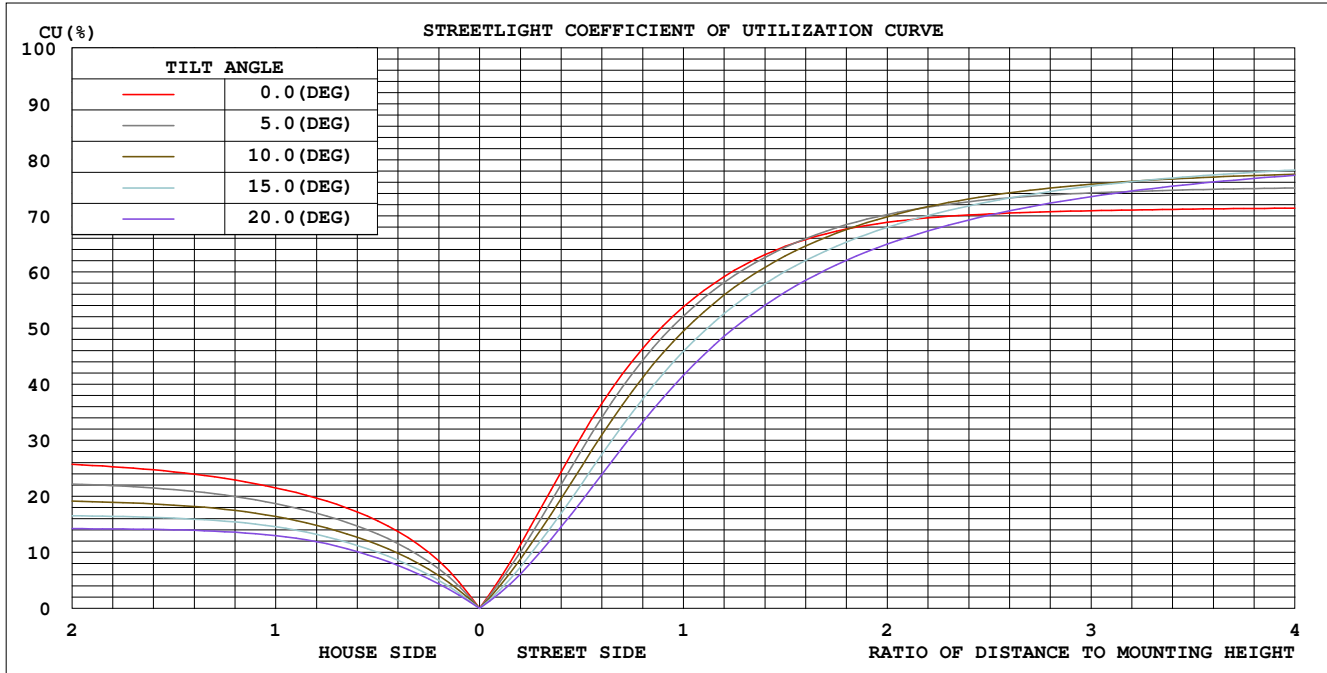
IES:Type III - Short
CIE:Narrow - Intermediate
IES:None cut-off
CIE:Non-cut-off
Max.At80:203.0cd/klm
Max.At90:1.443cd/klm
Max.80-90:203.0cd/klm
NRB 5101:Non limited[39.3%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	12803
90%	11523
80%	10243
70%	8962
60%	7682
50%	6402
40%	5121
30%	3841
20%	2561
10%	1280
5%	640

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25±1°CDEG
Operators:Sebastian Vidal
Test Date:2024-04-25

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:52.0-MIN:42.0%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 24-0270-3-A RALED II 48 LED
DRIVER ADVANCE XITANIUM 180W
MOD LED 2X8 Z15 5050 4K SEOUL
LENTE: RA10

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25±1°C DEG
Operators: Sebastian Vidal
Test Date: 2024-04-25

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity: MAX: 52.0-MIN: 42.0%
Test Distance: 7.080m [K=1.0000]
Remarks: ANEXO 24-0270-3-A RALEID II 48 LED
DRIVER ADVANCE XITANIUM 180W
MOD LED 2X8 Z15 5050 4K SEOUL
LENTE: RA10

ZONAL FLUX DIAGRAM

Test:U:220.39V I:0.7790A P:169.76W PF:0.9889 Freq:60.01Hz Lamp Flux:23209.6x1 lm		
NAME: ANEXO 24-0270-3-A RALED II 48 LED	TYPE:Alumbrado Publico	WEIGHT:-----
SPEC.:48 LED 170W	DIM.: -----	SERIAL No.:24-0270-3
MFR.: ROY APLHA	SUR.:-----	Shielding Angle:-----

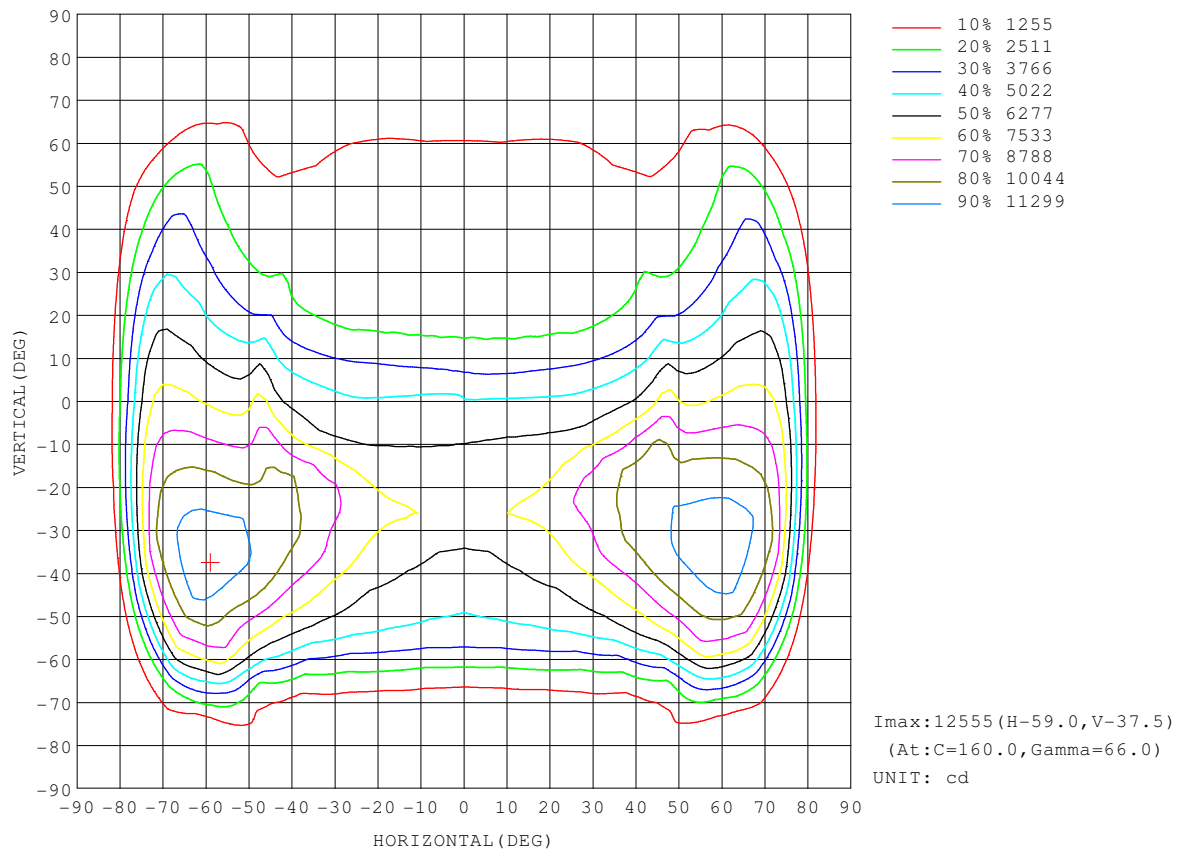
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	508.1	591.3	631.3	575.6	506.7	384.3	306.7	363.3	0- 10	469.6	469.6	2.02,2.02
20	510.6	680.8	664.1	680.3	500.5	261.5	222.0	259.6	10- 20	1350	1820	7.84,7.84
30	539.2	814.5	684.2	801.7	517.4	207.0	189.2	212.2	20- 30	2231	4051	17.5,17.5
40	628.2	824.5	592.5	834.4	586.0	178.4	166.1	187.7	30- 40	3151	7202	31,31
50	742.0	801.7	492.8	827.9	711.9	169.0	173.3	188.2	40- 50	4085	11287	48.6,48.6
60	760.0	669.1	301.2	701.6	730.3	135.7	129.4	141.0	50- 60	4499	15786	68,68
70	771.8	316.3	71.28	351.0	777.1	90.13	73.93	90.71	60- 70	4162	19947	85.9,85.9
80	197.5	85.97	19.87	88.37	244.2	38.85	16.30	38.02	70- 80	2696	22643	97.6,97.6
90	2.528	0.5682	0.3030	0.5590	2.583	1.380	0.3500	1.535	80- 90	330.4	22973	99,99
100	3.821	0.8814	0.5564	0.8187	6.192	3.457	1.138	3.709	90-100	21.49	22995	99.1,99.1
110	5.947	1.323	0.8880	1.240	7.189	5.296	2.455	5.520	100-110	35.00	23030	99.2,99.2
120	6.470	1.688	1.239	1.554	7.159	6.131	3.740	6.451	110-120	40.17	23070	99.4,99.4
130	5.828	2.016	1.534	1.784	6.928	6.084	4.824	6.835	120-130	39.03	23109	99.6,99.6
140	5.268	2.407	1.758	2.136	6.367	5.882	5.529	6.762	130-140	34.06	23143	99.7,99.7
150	4.863	2.915	2.177	2.459	5.917	5.825	5.917	6.443	140-150	27.83	23171	99.8,99.8
160	4.770	3.497	2.846	2.876	5.745	5.790	5.850	5.885	150-160	20.87	23192	99.9,99.9
170	5.009	4.255	3.668	3.511	5.597	5.581	5.493	5.335	160-170	13.15	23205	100,100
180	5.478	5.029	4.689	4.599	5.483	5.030	4.690	4.600	170-180	4.569	23210	100,100
DEG	LUMINOUS INTENSITY: ≤ 10 cd Less than 35% Percent = 12.6 %									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25 \pm 1°CDEG
Operators:Sebastian Vidal
Test Date:2024-04-25

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity:MAX:52.0-MIN:42.0%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 24-0270-3-A RALED II 48 LED
DRIVER ADVANCE XITANIUM 180W
MOD LED 2X8 Z15 5050 4K SEOUL
LENTE: RA10

ISOCANDELA DIAGRAM

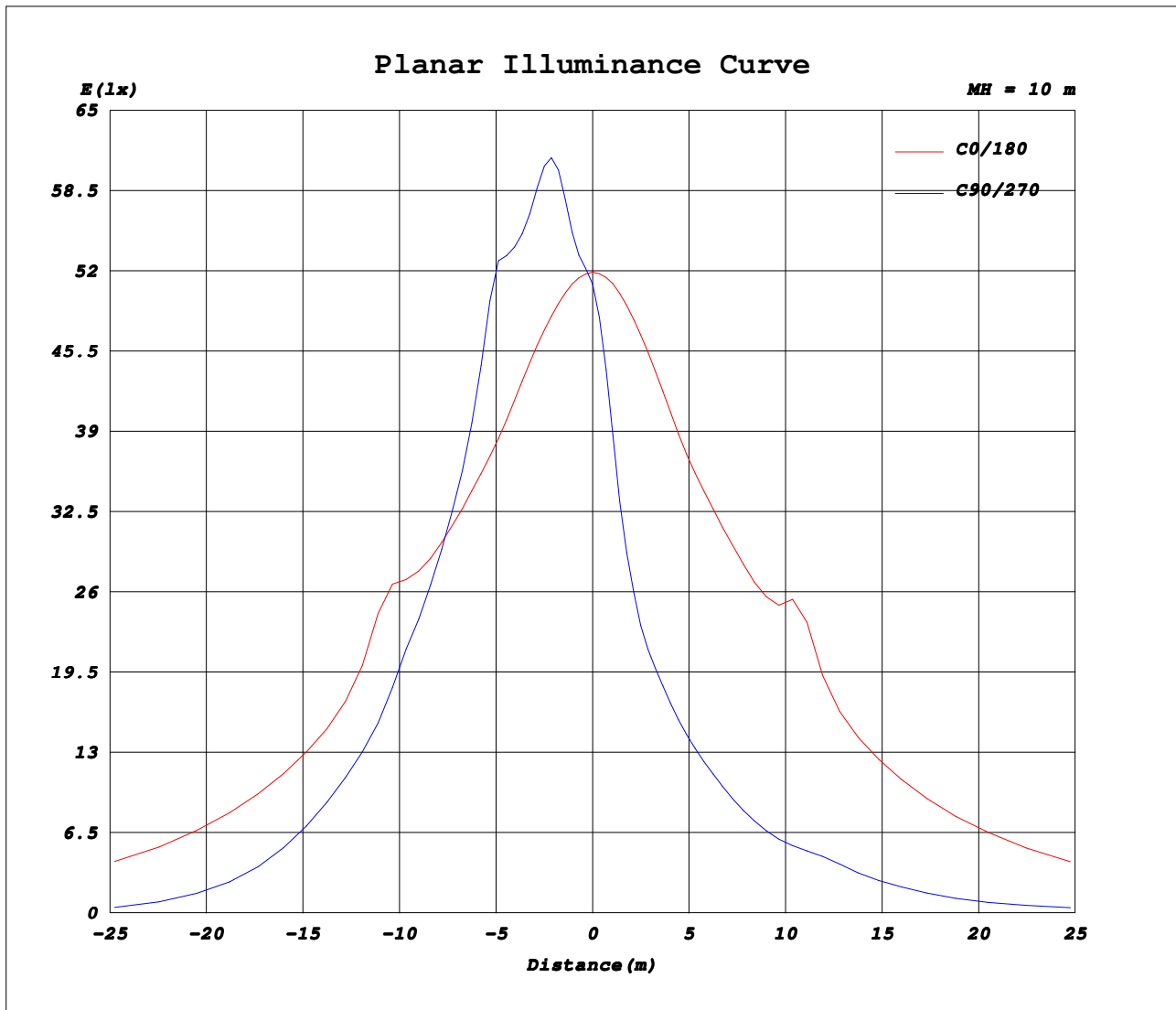
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SPEC.:48 LED 170W	DIM.: -----	SERIAL No.:24-0270-3
MFR.: ROY APLHA	SUR.:-----	Shielding Angle:-----



C Range: 0 - 360DEG
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Planar Illuminance Curve



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DRIVER ADVANCE XITANIUM 180W 0.1-1.25A 0-10V Dimming SimpleSet
MOD LED 2X8 Z15 5050 4K SEOUL (3 UND)
ABLE 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-013
Datalogger INME-062-3
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:
Sebastian Vidal.

Revisó:
Luis Asprilla.

Testing Procedure: Las prueba fue realizada de acuerdo con la norma LM 79 de 2019.
Tiempo de estabilizacion: 0:42':20"
Tiempo de ensayo: 0:20':27"

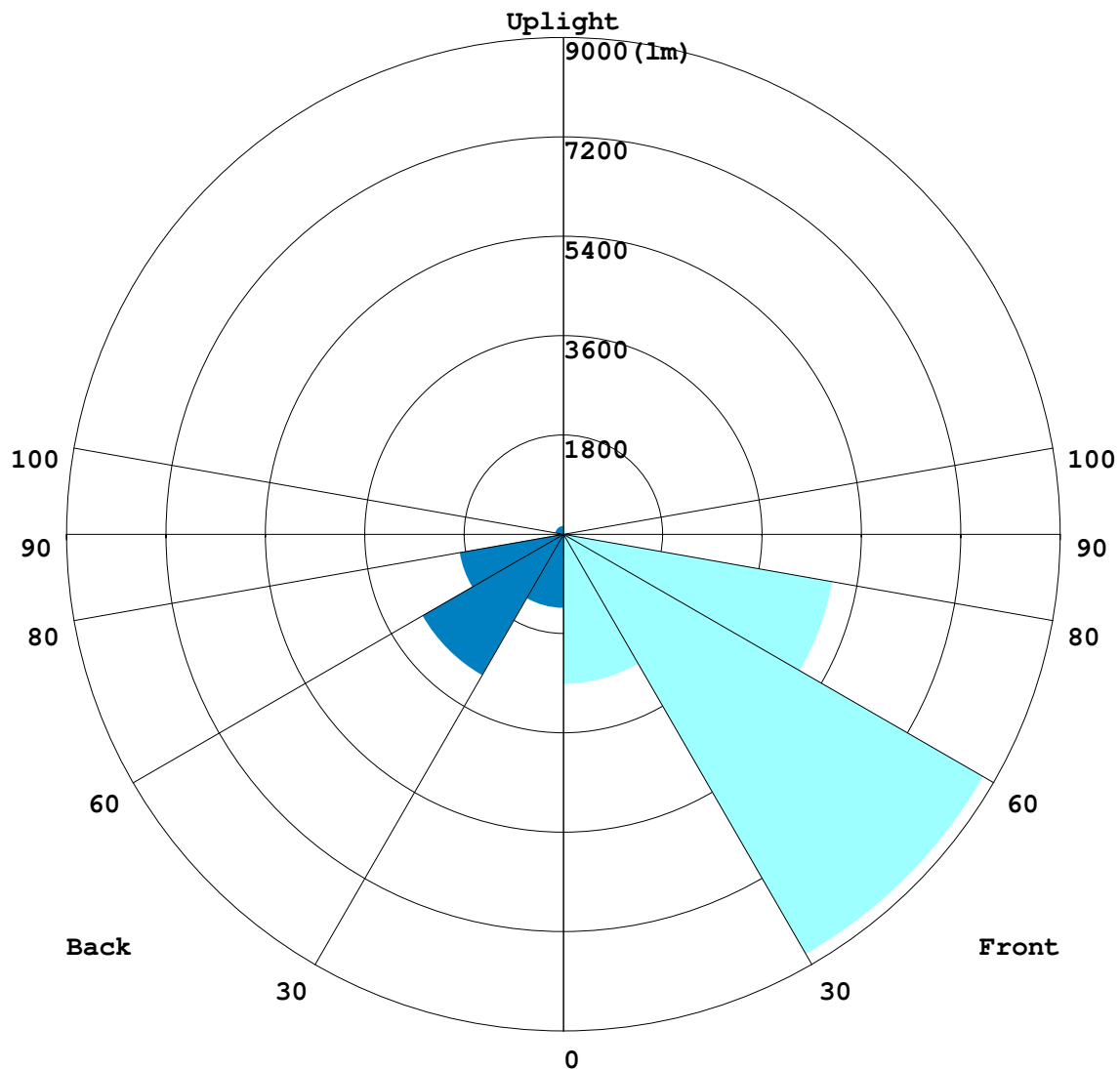
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Test Speed: HIGH
Temperature: 25±1°CDEG
Operators: Sebastian Vidal
Test Date: 2024-04-25

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LENTE: RA10

LCS REPORT

Test:U:220.39V I:0.7790A P:169.76W PF:0.9889 Freq:60.01Hz Lamp Flux:23209.6x1 lm		
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MFR.: ROY APLHA	SUR.:-----	Shielding Angle:-----

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



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BUG REPORT

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IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	2712	11.7
FM - Front-Medium(30-60)	8784.4	37.8
FH - Front-High(60-80)	4949.3	21.3
FVH - Front-Very High(80-90)	229.44	1.0
Total Forward Light	16746	72.2

BL - Back-Low(0-30)	1338.6	5.8
BM - Back-Medium(30-60)	2950.7	12.7
BH - Back-High(60-80)	1908	8.2
BVH - Back-Very High(80-90)	100.98	0.4
Total Back Light	6463.8	27.8

UL - Uplight-Low(90-100)	21.489	0.1
UH - Uplight-High(100-180)	214.68	0.9
Total Up Light	236.17	1.0

BUG (Back, Up, Glare) Rating	B3-U3-G3
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	6298.2	165.59	6463.8
Street Side	16675	70.578	16746

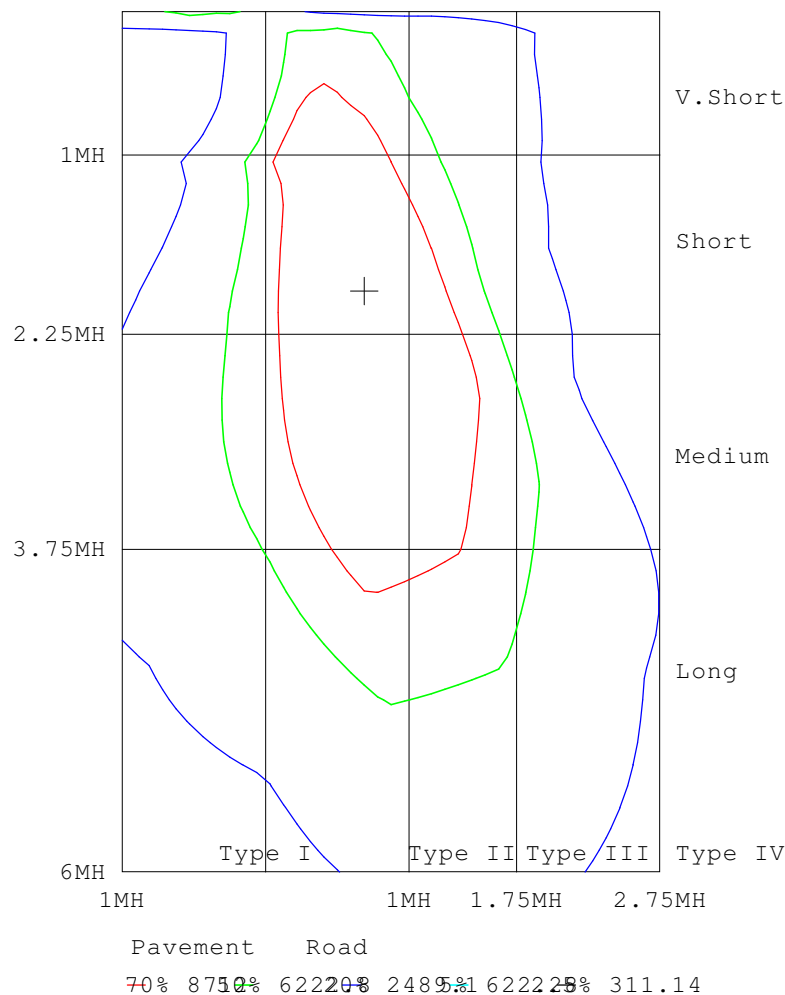
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Temperature:25±1°CDEG
Operators:Sebastian Vidal
Test Date:2024-04-25

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LENTE: RA10

ROAD ISOCANDELA REPORT

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SPEC.: 48 LED 170W	DIM.: -----	SERIAL No.: 24-0270-3
MFR.: ROY ALPHA	SUR.: -----	Shielding Angle:-----

ROAD SURFACE ISOCANDELA DIAGRAM



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C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25±1°CDEG
Operators: Sebastian Vidal
Test Date: 2024-04-25

γ Range: 0 - 180DEG
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Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
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LUMINOUS DISTRIBUTION INTENSITY DATA

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MFR.: ROY APLHA	SUR.:-----	Shielding Angle:-----

Table--1

UNIT: μA10cd

γ (DEG) \ C (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	510	510	510	510	510	510	510	510	510	510	510	510	510	510	510	510	510	510	510
5	510	514	518	523	527	530	534	536	537	538	537	537	534	533	530	527	523	517	510
10	508	520	537	558	582	601	617	625	631	631	629	619	605	586	565	547	533	522	507
15	508	527	559	598	633	652	660	663	662	664	664	664	658	642	611	574	542	524	504
20	511	545	610	665	683	678	669	665	664	664	663	666	671	683	678	638	574	528	501
25	515	567	654	704	708	698	697	698	701	700	699	694	688	696	706	683	609	537	501
30	539	632	748	793	821	808	759	715	685	684	692	729	771	804	799	770	698	581	517
35	565	699	847	894	866	793	715	665	634	630	639	676	728	805	861	877	790	635	539
40	628	849	995	974	876	772	689	633	599	592	604	642	700	786	883	973	957	761	586
45	714	969	1069	1006	901	767	661	601	576	576	578	610	674	783	901	1007	1050	898	658
50	742	974	1096	1071	895	708	596	555	516	493	518	566	614	739	917	1084	1078	927	712
55	723	987	1123	1084	853	661	558	498	455	443	457	512	578	693	888	1113	1113	946	689
60	760	1054	1204	1060	773	565	429	362	313	301	316	373	448	599	804	1122	1214	1031	730
65	783	1088	1233	1004	699	429	297	246	200	189	204	258	318	460	719	1053	1271	1094	763
70	772	1110	1140	905	436	197	132	84.1	72.2	71.3	72.7	88.0	136	215	487	938	1213	1135	777
75	678	1030	979	718	205	95.8	62.9	54.8	46.3	46.0	47.0	56.9	65.2	99.5	223	809	1026	1045	676
80	197	409	401	188	122	49.5	26.4	23.5	20.3	19.9	20.8	24.5	27.9	52.9	124	261	471	435	244
85	37.4	54.9	88.4	49.9	60.7	21.4	11.9	9.01	8.72	6.37	9.05	9.53	12.4	23.7	63.7	50.0	105	62.4	59.1
90	2.53	1.94	1.49	0.88	0.70	0.43	0.38	0.36	0.34	0.30	0.33	0.36	0.38	0.42	0.70	0.77	1.34	1.74	2.58
95	3.02	2.33	1.63	1.08	0.74	0.54	0.46	0.41	0.40	0.39	0.39	0.40	0.44	0.51	0.68	0.96	1.47	2.15	3.88
100	3.82	2.99	2.12	1.44	1.01	0.76	0.64	0.58	0.56	0.56	0.56	0.57	0.62	0.71	0.93	1.32	1.97	2.83	6.19
105	4.63	3.58	2.55	1.73	1.22	0.92	0.77	0.69	0.69	0.68	0.69	0.69	0.74	0.86	1.13	1.60	2.39	3.46	6.97
110	5.95	4.52	3.21	2.19	1.52	1.13	0.95	0.86	0.89	0.89	0.89	0.86	0.92	1.07	1.41	2.05	3.09	4.45	7.19
115	6.36	4.87	3.48	2.38	1.67	1.27	1.06	1.00	1.04	1.03	1.03	0.99	1.02	1.20	1.57	2.25	3.36	4.84	7.14
120	6.47	5.07	3.72	2.63	1.92	1.46	1.24	1.21	1.25	1.24	1.24	1.20	1.20	1.36	1.75	2.44	3.51	4.96	7.16
125	6.31	5.05	3.78	2.76	2.04	1.59	1.38	1.38	1.38	1.37	1.36	1.35	1.31	1.45	1.81	2.46	3.45	4.78	7.16
130	5.83	4.84	3.79	2.87	2.22	1.81	1.62	1.59	1.56	1.53	1.52	1.52	1.52	1.63	1.94	2.47	3.26	4.34	6.93
135	5.54	4.70	3.79	2.96	2.35	1.97	1.79	1.71	1.66	1.63	1.60	1.60	1.66	1.78	2.06	2.51	3.20	4.07	6.71
140	5.27	4.56	3.83	3.13	2.58	2.23	2.03	1.89	1.81	1.76	1.72	1.72	1.81	2.00	2.27	2.67	3.18	3.85	6.37
145	5.10	4.51	3.87	3.25	2.76	2.43	2.19	2.05	1.96	1.89	1.84	1.85	1.94	2.13	2.40	2.74	3.16	3.72	6.16
150	4.86	4.44	3.97	3.50	3.08	2.75	2.51	2.35	2.24	2.18	2.13	2.13	2.19	2.34	2.58	2.86	3.16	3.53	5.92
155	4.81	4.46	4.07	3.66	3.29	2.98	2.75	2.59	2.49	2.41	2.37	2.36	2.40	2.52	2.71	2.93	3.17	3.50	5.83
160	4.77	4.49	4.20	3.93	3.63	3.37	3.15	3.03	2.94	2.85	2.78	2.76	2.76	2.82	2.93	3.09	3.29	3.59	5.74
165	4.79	4.56	4.34	4.13	3.88	3.67	3.46	3.36	3.25	3.17	3.10	3.06	3.03	3.05	3.12	3.26	3.44	3.68	5.68
170	5.01	4.84	4.72	4.53	4.34	4.17	3.97	3.88	3.76	3.67	3.59	3.53	3.47	3.48	3.54	3.68	3.83	4.01	5.60
175	5.32	5.17	5.01	4.83	4.66	4.51	4.30	4.24	4.13	4.02	3.94	3.88	3.85	3.87	3.94	4.07	4.22	4.39	5.56
180	5.48	5.42	5.29	5.18	5.07	4.99	4.84	4.82	4.74	4.69	4.63	4.61	4.58	4.60	4.60	4.65	4.68	4.75	5.48

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH

Temperature: 25±1°CDEG

Operators: Sebastian Vidal

Test Date: 2024-04-25

γ Range: 0 - 180DEG

γ Interval: 2.0DEG

Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10

Humidity: MAX: 52.0-MIN: 42.0%

Test Distance: 7.080m [K=1.0000]

Remarks: ANEXO 24-0270-3-A RALED II 48 LED

DRIVER ADVANCE XITANIUM 180W

MOD LED 2X8 Z15 5050 4K SEOUL

LENTE: RA10

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.39V I:0.7790A P:169.76W PF:0.9889 Freq:60.01Hz Lamp Flux:23209.6x1 lm		
NAME: ANEXO 24-0270-3-A RALED II 48 LED	TYPE:Alumbrado Publico	WEIGHT:-----
SPEC.:48 LED 170W	DIM.: -----	SERIAL No.:24-0270-3
MFR.: ROY APLHA	SUR.:-----	Shielding Angle:-----

Table--2

UNIT: lm

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	510	510	510	510	510	510	510	510	510	510	510	510	510	510	510	510	510		
5	505	499	491	483	473	464	455	450	444	445	445	452	458	469	479	490	500		
10	492	469	435	402	367	341	321	312	307	309	314	328	348	379	414	452	485		
15	483	443	390	341	304	282	267	262	256	262	264	278	296	325	370	426	478		
20	470	403	327	277	245	231	225	222	222	223	227	233	245	274	316	388	469		
25	462	376	293	247	224	214	208	205	206	206	209	216	228	245	289	363	463		
30	458	337	252	214	200	191	189	188	189	189	191	195	204	220	252	329	462		
35	459	319	232	200	186	181	180	180	180	181	182	185	192	207	235	316	467		
40	467	303	211	185	172	168	169	166	166	167	172	173	180	195	225	309	489		
45	495	302	203	176	164	160	159	159	161	161	164	166	175	192	224	317	526		
50	533	326	236	182	156	166	169	169	173	171	172	179	177	200	249	329	552		
55	507	296	188	171	176	174	168	162	161	159	167	184	190	186	200	290	524		
60	511	306	168	139	132	152	147	131	129	130	147	162	138	144	174	298	532		
65	535	321	162	121	112	119	115	103	103	103	115	123	115	125	167	315	558		
70	524	336	163	99.4	80.8	82.4	79.9	74.7	73.9	73.9	78.8	83.0	81.0	100	161	330	539		
75	448	310	166	85.3	58.1	59.6	60.4	52.3	48.9	51.9	59.1	59.6	58.4	85.0	155	317	443		
80	165	96.0	55.5	48.3	29.3	27.3	22.4	17.7	16.3	17.5	21.8	27.1	30.0	46.0	52.5	109	153		
85	36.8	23.8	12.1	12.6	11.4	7.87	8.14	5.34	4.68	5.20	7.80	7.55	11.2	11.5	16.3	26.1	33.4		
90	3.18	3.13	2.59	1.72	1.04	0.61	0.44	0.36	0.35	0.38	0.48	0.68	1.17	1.90	2.82	3.35	3.31		
95	4.86	4.82	3.98	2.67	1.64	1.01	0.74	0.61	0.60	0.64	0.80	1.12	1.81	2.90	4.28	5.14	5.04		
100	7.67	7.66	6.23	4.17	2.74	1.85	1.39	1.17	1.14	1.21	1.49	2.00	2.95	4.47	6.58	7.95	7.81		
105	8.38	8.40	7.08	5.09	3.56	2.55	1.96	1.67	1.62	1.71	2.07	2.73	3.81	5.36	7.32	8.58	8.46		
110	8.47	8.64	7.61	5.99	4.60	3.57	2.88	2.53	2.45	2.56	2.97	3.76	4.86	6.18	7.70	8.67	8.41		
115	8.31	8.53	7.73	6.38	5.12	4.10	3.40	3.07	2.99	3.11	3.46	4.28	5.37	6.58	7.81	8.49	8.18		
120	8.09	8.26	7.68	6.67	5.59	4.69	4.10	3.80	3.74	3.83	4.14	4.89	5.91	6.99	7.89	8.23	7.81		
125	7.89	7.95	7.42	6.60	5.76	5.02	4.54	4.25	4.21	4.29	4.60	5.25	6.18	7.12	7.84	8.00	7.50		
130	7.43	7.31	6.83	6.32	5.85	5.38	5.08	4.84	4.82	4.91	5.22	5.70	6.48	7.19	7.59	7.45	6.81		
135	7.10	6.95	6.52	6.13	5.80	5.55	5.31	5.15	5.16	5.24	5.52	5.96	6.57	7.13	7.34	7.05	6.36		
140	6.67	6.58	6.25	5.95	5.81	5.67	5.54	5.48	5.53	5.62	5.82	6.19	6.62	6.91	6.91	6.51	5.85		
145	6.42	6.36	6.13	5.93	5.84	5.71	5.67	5.66	5.73	5.80	5.97	6.25	6.60	6.75	6.63	6.24	5.62		
150	6.13	6.11	5.99	5.86	5.79	5.73	5.79	5.85	5.92	5.96	6.06	6.20	6.41	6.47	6.30	5.93	5.39		
155	6.03	6.01	5.93	5.82	5.76	5.70	5.80	5.87	5.94	5.96	6.02	6.09	6.23	6.23	6.08	5.78	5.34		
160	5.89	5.92	5.88	5.81	5.77	5.68	5.76	5.80	5.85	5.85	5.87	5.88	5.90	5.86	5.77	5.58	5.31		
165	5.78	5.80	5.79	5.76	5.75	5.65	5.72	5.73	5.74	5.72	5.72	5.70	5.69	5.64	5.57	5.43	5.23		
170	5.63	5.61	5.60	5.58	5.58	5.51	5.56	5.53	5.49	5.46	5.43	5.39	5.37	5.30	5.23	5.17	5.08		
175	5.56	5.49	5.44	5.39	5.37	5.28	5.31	5.27	5.23	5.18	5.14	5.10	5.09	5.03	4.99	4.97	4.96		
180	5.42	5.30	5.18	5.07	4.99	4.84	4.82	4.74	4.69	4.64	4.61	4.58	4.60	4.60	4.65	4.68	4.76		

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH

Temperature: 25±1°CDEG

Operators: Sebastian Vidal

Test Date: 2024-04-25

γ Range: 0 - 180DEG

γ Interval: 2.0DEG

Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10

Humidity: MAX: 52.0-MIN: 42.0%

Test Distance: 7.080m [K=1.0000]

Remarks: ANEXO 24-0270-3-A RALED II 48 LED

DRIVER ADVANCE TITANIUM 180W

MOD LED 2X8 Z15 5050 4K SEOUL

LENTE: RA10

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	5103	5103	5103	5103	5103	5103	5103	5103	5103	5103
2.0	5100	5121	5141	5162	5178	5195	5207	5223	5230	5242
4.0	5096	5139	5182	5225	5266	5302	5335	5358	5375	5378
6.0	5094	5160	5232	5310	5399	5475	5548	5589	5624	5615
8.0	5088	5182	5291	5427	5586	5719	5843	5913	5966	5957
10.0	5081	5203	5367	5580	5818	6008	6169	6253	6310	6313
12.0	5078	5230	5464	5767	6079	6294	6435	6506	6534	6549
14.0	5083	5268	5588	5982	6332	6521	6597	6628	6620	6638
16.0	5090	5318	5741	6214	6547	6665	6662	6647	6609	6623
18.0	5095	5374	5910	6443	6711	6740	6672	6627	6585	6595
20.0	5106	5446	6100	6651	6831	6784	6690	6654	6636	6641
22.0	5125	5543	6312	6842	6944	6851	6775	6768	6782	6782
24.0	5152	5671	6542	7037	7081	6983	6967	6982	7005	6999
26.0	5205	5839	6802	7264	7284	7260	7334	7320	7303	7290
28.0	5285	6057	7115	7544	7647	7763	7709	7441	7223	7221
30.0	5392	6324	7481	7928	8206	8084	7590	7151	6855	6842
32.0	5514	6644	7899	8513	8518	8049	7357	6852	6539	6517
34.0	5655	6995	8473	8942	8664	7932	7153	6645	6342	6303
36.0	5829	7398	9025	9252	8730	7818	7027	6527	6216	6158
38.0	6032	7933	9490	9515	8749	7753	6965	6432	6106	6030
40.0	6282	8491	9949	9740	8764	7724	6892	6326	5988	5925
42.0	6641	9054	10377	9888	8854	7717	6772	6184	5884	5818
44.0	7139	9695	10687	10063	9006	7668	6612	6011	5759	5762
46.0	7817	10200	10805	10390	9145	7549	6405	5813	5568	5462
48.0	7967	10085	11001	10675	9108	7342	6174	5643	5395	5153
50.0	7420	9739	10957	10715	8949	7081	5963	5551	5159	4928
52.0	7216	9685	11009	10760	8756	6835	5780	5302	4884	4713
54.0	7225	9865	11229	10843	8530	6612	5578	4977	4552	4427
56.0	7335	10097	11494	10870	8269	6382	5284	4614	4157	4039
58.0	7470	10328	11778	10786	8000	6082	4859	4166	3682	3563
60.0	7600	10542	12037	10597	7733	5646	4286	3617	3130	3012
62.0	7720	10715	12240	10326	7433	5046	3623	3025	2556	2453
64.0	7828	10877	12335	10036	6985	4289	2970	2461	2001	1895
66.0	7829	10954	12258	9756	6266	3463	2368	1897	1428	1364
68.0	7808	11046	11941	9459	5323	2714	1846	1316	1073	876.3
70.0	7718	11099	11403	9046	4357	1966	1324	841.3	721.9	712.8
72.0	7447	10942	10698	8365	3164	1358	975.0	678.9	591.2	583.0
74.0	6778	10296	9793	7177	2052	957.7	628.8	547.9	462.6	459.9
76.0	5523	8964	8574	5563	1492	756.8	511.7	421.5	358.8	362.3
78.0	3777	6743	6582	3718	1283	627.7	375.3	320.2	273.1	280.5
80.0	1975	4090	4005	1884	1223	495.0	264.4	235.0	202.5	198.7
82.0	1167	1447	1598	972.2	917.7	337.7	181.1	150.1	138.8	134.4
84.0	373.7	548.8	884.2	499.2	606.9	214.1	119.1	90.06	87.20	63.73
86.0	199.8	285.0	176.6	260.0	222.5	90.76	57.38	46.84	35.66	16.56
88.0	28.08	22.85	93.88	23.29	113.9	20.70	16.60	15.78	11.20	4.455
90.0	25.28	19.42	14.89	8.829	7.012	4.348	3.775	3.567	3.387	3.030
92.0	27.67	21.32	14.78	9.736	6.652	4.776	4.018	3.599	3.488	3.346
94.0	30.17	23.35	16.29	10.82	7.441	5.413	4.571	4.113	4.001	3.854
96.0	32.65	25.43	17.85	11.95	8.275	6.093	5.157	4.673	4.532	4.402
98.0	35.21	27.49	19.44	13.11	9.140	6.783	5.760	5.246	5.089	4.972
100.0	38.21	29.89	21.23	14.35	10.07	7.551	6.416	5.802	5.647	5.564
102.0	41.94	32.66	23.23	15.73	11.11	8.381	7.068	6.367	6.240	6.192
104.0	46.31	35.82	25.52	17.31	12.24	9.178	7.694	6.920	6.852	6.833
106.0	51.09	39.21	27.92	18.96	13.35	9.914	8.306	7.461	7.487	7.499
108.0	55.75	42.46	30.22	20.49	14.34	10.60	8.907	8.008	8.171	8.185
110.0	59.47	45.23	32.14	21.87	15.17	11.28	9.481	8.609	8.903	8.880
112.0	62.10	47.37	33.68	22.93	15.95	12.00	10.03	9.270	9.641	9.575
114.0	63.59	48.74	34.77	23.80	16.74	12.70	10.56	9.961	10.36	10.29
116.0	64.45	49.63	35.66	24.69	17.58	13.38	11.09	10.67	11.05	10.99
118.0	64.79	50.26	36.46	25.56	18.38	14.00	11.73	11.34	11.76	11.70
120.0	64.70	50.66	37.17	26.33	19.15	14.60	12.41	12.13	12.46	12.39
122.0	64.09	50.71	37.59	27.01	19.80	15.19	13.11	12.95	13.15	13.07
124.0	63.05	50.49	37.84	27.56	20.37	15.89	13.84	13.80	13.80	13.69
126.0	61.69	50.01	37.95	27.99	20.93	16.61	14.53	14.61	14.43	14.27
128.0	60.11	49.28	37.92	28.36	21.55	17.37	15.29	15.29	15.02	14.82
130.0	58.28	48.39	37.90	28.69	22.18	18.14	16.19	15.92	15.56	15.34
132.0	56.65	47.82	37.84	29.14	22.80	18.94	17.07	16.50	16.08	15.82
134.0	55.43	47.04	37.87	29.57	23.49	19.72	17.93	17.05	16.56	16.25
136.0	54.43	46.54	37.95	30.04	24.25	20.58	18.77	17.62	17.04	16.66
138.0	53.57	46.06	38.06	30.64	25.02	21.46	19.53	18.24	17.55	17.10
140.0	52.68	45.62	38.33	31.32	25.78	22.35	20.26	18.89	18.11	17.58
142.0	51.85	45.37	38.63	31.84	26.66	23.33	21.06	19.64	18.78	18.16
144.0	50.96	45.11	38.68	32.48	27.62	24.33	21.90	20.46	19.56	18.88
146.0	49.74	44.52	38.89	33.23	28.68	25.30	22.89	21.37	20.42	19.75

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25±1°CDEG
Operators: Sebastian Vidal
Test Date: 2024-04-25

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity: MAX: 52.0-MIN: 42.0%
Test Distance: 7.080m [K=1.0000]
Remarks: ANEXO 24-0270-3-A RALEID II 48 LED
DRIVER ADVANCE XITANIUM 180W
MOD LED 2X8 Z15 5050 4K SEOUL
LENTE: RA10

Photometric Data Table [cd]

148.0	49.12	44.38	39.25	34.08	29.78	26.35	23.98	22.37	21.37	20.72
150.0	48.63	44.38	39.68	35.01	30.82	27.47	25.12	23.47	22.43	21.77
152.0	48.28	44.45	40.27	35.82	31.87	28.63	26.29	24.66	23.60	22.89
154.0	48.13	44.60	40.66	36.63	32.94	29.81	27.51	25.95	24.90	24.14
156.0	47.94	44.61	41.04	37.45	34.01	31.02	28.77	27.34	26.29	25.50
158.0	47.74	44.69	41.49	38.35	35.12	32.30	30.11	28.82	27.81	26.95
160.0	47.70	44.89	42.03	39.27	36.27	33.66	31.53	30.35	29.36	28.46
162.0	47.72	45.19	42.64	40.22	37.51	35.11	33.03	31.93	30.92	30.02
164.0	47.91	45.63	43.40	41.31	38.84	36.65	34.60	33.55	32.49	31.65
166.0	48.33	46.30	44.41	42.52	40.27	38.28	36.22	35.25	34.13	33.31
168.0	49.05	47.22	45.68	43.84	41.77	39.94	37.90	37.00	35.80	34.98
170.0	50.09	48.45	47.17	45.26	43.39	41.70	39.66	38.77	37.58	36.68
172.0	51.49	50.09	48.73	46.77	45.02	43.44	41.41	40.57	39.42	38.41
174.0	53.17	51.73	50.15	48.32	46.58	45.05	43.04	42.40	41.30	40.24
176.0	54.08	52.75	51.18	49.52	47.88	46.60	44.74	44.25	43.18	42.18
178.0	54.42	53.45	52.04	50.69	49.28	48.30	46.58	46.27	45.29	44.54
180.0	54.78	54.20	52.92	51.82	50.65	49.92	48.37	48.22	47.37	46.89
G/C	100.0	110.0	120.0	130.0	140.0	150.0	160.0	170.0	180.0	190.0
0.0	5103	5103	5103	5103	5103	5103	5103	5103	5103	5103
2.0	5241	5251	5238	5239	5221	5205	5175	5142	5102	5079
4.0	5373	5366	5342	5330	5298	5273	5230	5175	5099	5050
6.0	5598	5554	5496	5441	5377	5329	5270	5203	5095	5016
8.0	5930	5845	5739	5616	5488	5385	5298	5218	5083	4972
10.0	6288	6192	6054	5860	5652	5466	5326	5224	5067	4920
12.0	6533	6485	6359	6146	5867	5581	5366	5230	5051	4871
14.0	6636	6645	6577	6418	6114	5736	5425	5239	5039	4828
16.0	6634	6690	6686	6627	6370	5930	5505	5251	5029	4786
18.0	6601	6671	6718	6760	6595	6150	5608	5263	5016	4744
20.0	6632	6664	6714	6831	6776	6379	5738	5279	5005	4704
22.0	6765	6742	6747	6876	6918	6606	5899	5312	5004	4662
24.0	6992	6937	6875	6957	7057	6834	6093	5369	5007	4622
26.0	7314	7305	7219	7129	7229	7077	6332	5466	5032	4596
28.0	7289	7553	7701	7568	7484	7355	6626	5610	5091	4579
30.0	6918	7288	7708	8040	7994	7698	6983	5806	5174	4575
32.0	6600	6976	7489	8105	8408	8240	7384	6056	5275	4579
34.0	6394	6755	7284	8046	8610	8768	7901	6346	5390	4586
36.0	6262	6629	7152	7955	8742	9128	8529	6671	5527	4603
38.0	6153	6528	7079	7889	8803	9448	9060	7082	5679	4630
40.0	6035	6419	7000	7862	8825	9729	9572	7614	5860	4675
42.0	5923	6276	6889	7851	8887	9911	10089	8216	6138	4760
44.0	5778	6096	6739	7830	9013	10066	10496	8980	6585	4947
46.0	5602	5915	6550	7764	9195	10343	10581	9806	7454	5419
48.0	5477	5747	6338	7614	9251	10712	10826	9728	7734	5787
50.0	5178	5658	6137	7386	9171	10835	10782	9267	7119	5330
52.0	4914	5467	5971	7157	9052	10945	10865	9245	6880	5127
54.0	4574	5125	5784	6932	8878	11134	11127	9459	6891	5073
56.0	4185	4729	5509	6709	8646	11285	11439	9720	7005	5060
58.0	3702	4259	5069	6419	8360	11323	11780	10005	7153	5072
60.0	3155	3731	4477	5991	8041	11220	12137	10305	7303	5108
62.0	2587	3141	3849	5361	7663	10948	12456	10622	7459	5177
64.0	2041	2578	3175	4598	7195	10530	12715	10942	7628	5354
66.0	1463	2015	2545	3832	6604	10044	12803	11148	7713	5310
68.0	1094	1399	1966	2989	5863	9623	12614	11283	7786	5261
70.0	726.7	880.3	1363	2149	4870	9377	12128	11348	7771	5239
72.0	597.2	702.9	1006	1426	3637	9038	11311	11154	7512	5047
74.0	469.7	568.8	651.9	995.3	2228	8089	10261	10446	6760	4477
76.0	366.9	439.0	529.1	790.9	1557	6461	9108	9124	5432	3602
78.0	278.4	331.5	392.0	662.3	1305	4274	7373	7051	3810	2625
80.0	208.4	244.7	278.5	529.4	1238	2610	4711	4349	2442	1653
82.0	143.7	158.0	190.8	369.6	938.8	945.9	1922	1668	1087	1009
84.0	90.49	95.35	123.6	237.0	636.6	499.8	1046	623.8	590.8	368.5
86.0	37.40	50.48	63.64	104.9	239.8	262.2	193.5	321.3	99.98	197.7
88.0	11.92	17.92	20.04	27.17	121.8	27.59	101.2	21.92	24.85	29.84
90.0	3.311	3.557	3.764	4.228	6.951	7.691	13.38	17.44	25.83	31.81
92.0	3.410	3.528	3.857	4.495	5.981	8.559	13.16	19.38	31.81	39.51
94.0	3.921	4.039	4.404	5.117	6.778	9.588	14.67	21.47	38.85	48.56
96.0	4.468	4.585	4.971	5.750	7.577	10.71	16.26	23.60	46.73	58.67
98.0	5.042	5.151	5.550	6.399	8.389	11.91	17.87	25.79	54.79	68.84
100.0	5.626	5.739	6.190	7.098	9.277	13.17	19.67	28.29	61.92	76.73
102.0	6.250	6.329	6.827	7.847	10.23	14.52	21.69	31.27	66.84	81.39
104.0	6.881	6.899	7.449	8.619	11.26	16.00	23.94	34.58	69.71	83.77
106.0	7.537	7.446	8.053	9.354	12.30	17.57	26.35	38.10	71.18	84.82
108.0	8.229	8.010	8.654	10.02	13.27	19.11	28.78	41.51	71.81	85.02
110.0	8.940	8.629	9.218	10.70	14.10	20.50	30.87	44.51	71.89	84.67

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25±1°CDEG
Operators: Sebastian Vidal
Test Date: 2024-04-25

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity: MAX: 52.0-MIN: 42.0%
Test Distance: 7.080m [K=1.0000]
Remarks: ANEXO 24-0270-3-A RALEID II 48 LED
DRIVER ADVANCE XITANIUM 180W
MOD LED 2X8 Z15 5050 4K SEOUL
LENTE: RA10

Photometric Data Table [cd]

112.0	9.638	9.283	9.743	11.38	14.90	21.61	32.51	46.83	71.70	83.94
114.0	10.34	9.947	10.25	12.03	15.70	22.47	33.64	48.40	71.42	83.08
116.0	11.03	10.57	10.80	12.62	16.44	23.26	34.46	49.35	71.36	82.30
118.0	11.71	11.26	11.39	13.12	17.06	23.94	34.96	49.78	71.44	81.62
120.0	12.39	12.00	11.98	13.55	17.52	24.41	35.14	49.65	71.59	80.87
122.0	13.04	12.77	12.58	14.01	17.82	24.64	34.98	48.94	71.64	79.95
124.0	13.64	13.52	13.14	14.54	18.08	24.65	34.52	47.83	71.56	78.93
126.0	14.21	14.14	13.71	15.09	18.42	24.60	33.95	46.49	71.26	77.72
128.0	14.75	14.73	14.45	15.66	18.90	24.60	33.28	44.96	70.39	76.09
130.0	15.23	15.25	15.22	16.32	19.37	24.68	32.59	43.35	69.28	74.28
132.0	15.64	15.69	15.96	16.98	19.91	24.90	32.18	41.82	68.20	72.60
134.0	16.00	16.05	16.60	17.75	20.59	25.15	31.96	40.69	67.08	71.01
136.0	16.33	16.40	17.12	18.56	21.33	25.53	31.73	39.88	65.96	69.54
138.0	16.71	16.76	17.61	19.30	21.99	26.15	31.65	39.11	64.81	68.05
140.0	17.16	17.19	18.11	20.01	22.71	26.73	31.82	38.46	63.67	66.68
142.0	17.71	17.74	18.70	20.67	23.36	27.06	31.95	38.09	62.62	65.45
144.0	18.43	18.45	19.40	21.33	24.01	27.44	31.62	37.20	61.60	64.21
146.0	19.28	19.31	20.16	21.97	24.63	27.78	31.52	36.25	60.66	63.05
148.0	20.23	20.25	21.01	22.66	25.21	28.22	31.50	35.73	59.84	62.06
150.0	21.30	21.30	21.94	23.41	25.78	28.60	31.56	35.35	59.17	61.28
152.0	22.45	22.41	22.94	24.26	26.39	28.92	31.62	35.14	58.60	60.66
154.0	23.68	23.60	24.04	25.17	27.09	29.35	31.74	35.02	58.29	60.25
156.0	24.98	24.87	25.19	26.14	27.82	29.84	31.97	35.16	58.01	59.78
158.0	26.37	26.18	26.39	27.14	28.56	30.34	32.35	35.48	57.72	59.38
160.0	27.84	27.59	27.65	28.20	29.33	30.92	32.88	35.87	57.45	58.94
162.0	29.39	29.06	28.95	29.32	30.20	31.66	33.56	36.32	57.18	58.42
164.0	31.00	30.56	30.26	30.46	31.21	32.59	34.41	36.85	56.83	57.80
166.0	32.64	32.12	31.66	31.73	32.40	33.77	35.48	37.62	56.55	57.26
168.0	34.27	33.70	33.13	33.17	33.81	35.17	36.76	38.68	56.27	56.75
170.0	35.91	35.25	34.74	34.78	35.44	36.79	38.33	40.08	55.97	56.27
172.0	37.61	36.94	36.50	36.65	37.31	38.65	40.12	41.82	55.74	55.87
174.0	39.39	38.79	38.46	38.66	39.43	40.72	42.18	43.87	55.63	55.56
176.0	41.42	40.93	40.70	40.95	41.59	42.74	43.99	45.47	55.36	55.19
178.0	43.89	43.57	43.32	43.56	43.97	44.87	45.55	46.54	55.02	54.74
180.0	46.34	46.13	45.78	45.98	46.00	46.48	46.78	47.54	54.83	54.18
G/C	200.0	210.0	220.0	230.0	240.0	250.0	260.0	270.0	280.0	290.0
0.0	5103	5103	5103	5103	5103	5103	5103	5103	5103	5103
2.0	5053	5023	4995	4957	4926	4888	4872	4841	4842	4837
4.0	4989	4908	4830	4728	4642	4546	4499	4441	4448	4449
6.0	4907	4758	4605	4414	4261	4100	4025	3945	3963	3984
8.0	4805	4569	4324	4050	3832	3623	3527	3447	3473	3513
10.0	4686	4355	4017	3669	3412	3209	3122	3067	3089	3137
12.0	4560	4128	3707	3315	3076	2907	2833	2787	2814	2865
14.0	4433	3903	3412	3037	2823	2670	2624	2556	2618	2638
16.0	4307	3683	3163	2818	2624	2468	2415	2409	2422	2465
18.0	4172	3465	2954	2629	2425	2344	2312	2311	2322	2360
20.0	4032	3266	2775	2455	2312	2250	2219	2220	2227	2265
22.0	3896	3088	2620	2326	2224	2160	2130	2135	2139	2174
24.0	3758	2929	2466	2240	2139	2077	2054	2059	2061	2091
26.0	3617	2777	2333	2157	2057	2005	1986	1995	1994	2021
28.0	3483	2640	2227	2075	1982	1942	1931	1941	1939	1960
30.0	3368	2518	2144	1997	1914	1888	1884	1892	1891	1909
32.0	3269	2410	2069	1924	1856	1843	1840	1848	1848	1865
34.0	3188	2315	2000	1861	1808	1803	1799	1802	1805	1825
36.0	3120	2234	1942	1811	1767	1765	1755	1749	1758	1786
38.0	3066	2168	1893	1766	1725	1729	1706	1700	1708	1753
40.0	3025	2112	1846	1722	1681	1689	1660	1661	1665	1719
42.0	3004	2061	1801	1679	1640	1640	1623	1632	1633	1671
44.0	3023	2027	1760	1637	1604	1591	1593	1614	1613	1640
46.0	3175	2049	1724	1598	1578	1577	1593	1633	1633	1646
48.0	3502	2237	1724	1565	1589	1625	1640	1685	1671	1691
50.0	3262	2360	1821	1557	1659	1685	1692	1733	1711	1725
52.0	3011	2040	1959	1620	1724	1712	1693	1703	1675	1715
54.0	2963	1885	1706	1755	1736	1681	1617	1610	1589	1670
56.0	2976	1797	1561	1638	1705	1643	1527	1512	1497	1616
58.0	3010	1733	1475	1456	1684	1626	1455	1423	1430	1622
60.0	3059	1678	1390	1325	1521	1470	1307	1294	1299	1467
62.0	3117	1641	1297	1219	1343	1293	1158	1163	1155	1296
64.0	3211	1622	1212	1118	1186	1150	1033	1032	1032	1153
66.0	3244	1624	1148	1017	1062	1008	934.2	933.0	931.4	1010
68.0	3302	1604	1081	920.5	945.1	905.8	843.0	834.7	835.9	898.2
70.0	3361	1635	993.8	808.5	824.4	798.6	747.0	739.3	739.2	788.0
72.0	3357	1672	916.2	692.7	707.2	697.4	656.0	641.0	651.8	690.5
74.0	3100	1659	853.4	580.7	596.1	603.7	522.5	488.9	519.1	591.1

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH

Temperature: 25±1°CDEG

Operators: Sebastian Vidal

Test Date: 2024-04-25

γ Range: 0 - 180DEG

γ Interval: 2.0DEG

Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10

Humidity: MAX: 52.0-MIN: 42.0%

Test Distance: 7.080m [K=1.0000]

Remarks: ANEXO 24-0270-3-A RALED II 48 LED

DRIVER ADVANCE XITANIUM 180W

MOD LED 2X8 Z15 5050 4K SEOUL

LENTE: RA10

Photometric Data Table [cd]

76.0	2428	1344	805.1	485.8	489.8	457.8	378.0	343.9	372.4	446.3
78.0	1756	949.6	695.7	388.4	389.4	329.1	277.5	245.6	273.6	319.0
80.0	959.6	555.5	483.2	293.4	273.3	223.8	177.3	163.0	175.2	218.1
82.0	425.6	299.4	304.2	199.0	157.8	141.9	108.7	104.8	106.4	136.7
84.0	238.1	120.7	126.0	113.6	78.68	81.43	53.43	46.79	51.96	77.98
86.0	52.22	47.57	55.26	28.41	26.17	21.19	16.85	13.29	16.42	19.38
88.0	27.42	22.21	15.29	8.976	5.417	3.727	2.982	2.986	3.093	4.052
90.0	31.32	25.89	17.21	10.37	6.066	4.374	3.606	3.500	3.818	4.831
92.0	39.09	32.35	21.70	13.27	7.940	5.754	4.724	4.638	4.987	6.309
94.0	48.24	39.79	26.67	16.43	10.15	7.382	6.114	6.022	6.433	8.030
96.0	58.64	47.80	31.79	19.83	12.62	9.311	7.767	7.573	8.089	10.06
98.0	68.82	55.75	36.85	23.49	15.39	11.52	9.610	9.355	9.965	12.36
100.0	76.61	62.33	41.73	27.38	18.50	13.94	11.70	11.38	12.10	14.87
102.0	81.30	67.26	46.51	31.50	21.87	16.68	14.09	13.67	14.52	17.68
104.0	83.99	70.83	50.87	35.60	25.48	19.64	16.68	16.18	17.14	20.69
106.0	85.56	73.38	54.53	39.45	29.12	22.77	19.46	18.91	19.91	23.80
108.0	86.33	75.07	57.46	42.90	32.58	25.85	22.36	21.73	22.80	26.84
110.0	86.38	76.07	59.87	46.04	35.71	28.80	25.29	24.55	25.65	29.65
112.0	85.97	76.75	62.00	48.77	38.54	31.53	28.08	27.29	28.42	32.22
114.0	85.34	77.29	63.76	51.15	40.99	34.02	30.73	29.94	31.10	34.65
116.0	84.65	77.62	65.19	53.03	43.12	36.41	33.27	32.49	33.61	36.95
118.0	83.79	77.53	66.19	54.62	45.07	38.71	35.65	34.94	35.96	39.18
120.0	82.60	76.84	66.71	55.90	46.91	40.98	37.97	37.40	38.32	41.43
122.0	81.13	75.65	66.60	56.83	48.65	43.22	40.23	39.76	40.61	43.70
124.0	79.50	74.16	66.00	57.61	50.23	45.45	42.46	42.08	42.86	46.04
126.0	77.68	72.45	65.20	58.11	51.57	47.51	44.61	44.28	45.06	48.37
128.0	75.45	70.36	64.25	58.38	52.71	49.27	46.62	46.35	47.16	50.46
130.0	73.13	68.33	63.21	58.47	53.83	50.79	48.42	48.24	49.09	52.24
132.0	71.06	66.65	62.17	58.36	54.77	52.06	50.03	49.96	50.86	53.85
134.0	69.53	65.22	61.32	58.03	55.55	53.11	51.46	51.57	52.43	55.22
136.0	68.18	64.15	60.66	57.96	56.17	54.00	52.73	52.98	53.86	56.39
138.0	66.88	63.27	59.96	57.95	56.48	54.77	53.85	54.22	55.11	57.38
140.0	65.77	62.52	59.55	58.08	56.69	55.44	54.82	55.29	56.20	58.24
142.0	64.74	61.77	59.40	58.34	56.90	56.07	55.76	56.32	57.16	59.03
144.0	63.62	61.28	59.27	58.38	57.14	56.70	56.62	57.31	58.00	59.71
146.0	62.67	60.79	59.15	58.32	57.33	57.25	57.43	58.18	58.74	60.23
148.0	61.78	60.24	58.89	58.09	57.32	57.63	58.03	58.74	59.26	60.50
150.0	61.08	59.88	58.57	57.92	57.31	57.91	58.49	59.17	59.62	60.60
152.0	60.53	59.51	58.29	57.72	57.19	58.01	58.74	59.37	59.70	60.47
154.0	60.14	59.29	58.17	57.64	57.04	58.01	58.73	59.39	59.60	60.19
156.0	59.81	59.08	58.11	57.55	56.85	57.80	58.51	59.18	59.31	59.72
158.0	59.55	59.00	58.13	57.58	56.78	57.69	58.27	58.88	58.97	59.26
160.0	59.19	58.81	58.14	57.66	56.76	57.57	58.01	58.50	58.51	58.72
162.0	58.70	58.43	57.99	57.71	56.71	57.40	57.69	58.01	57.96	58.03
164.0	58.04	57.87	57.58	57.50	56.54	57.18	57.26	57.39	57.23	57.22
166.0	57.42	57.36	57.17	57.21	56.42	56.99	56.87	56.92	56.60	56.47
168.0	56.77	56.70	56.57	56.66	55.97	56.54	56.32	56.12	55.71	55.46
170.0	56.09	55.96	55.81	55.82	55.13	55.63	55.27	54.93	54.59	54.30
172.0	55.46	55.18	54.92	54.83	53.98	54.44	54.07	53.61	53.14	52.84
174.0	54.91	54.43	53.94	53.72	52.75	53.08	52.70	52.26	51.75	51.42
176.0	54.34	53.63	52.93	52.55	51.40	51.55	51.07	50.63	50.17	49.88
178.0	53.69	52.79	51.86	51.31	49.99	49.96	49.30	48.88	48.41	48.15
180.0	52.96	51.82	50.69	49.91	48.41	48.22	47.41	46.90	46.38	46.12
G/C	300.0	310.0	320.0	330.0	340.0	350.0				
0.0	5103	5103	5103	5103	5103	5103				
2.0	4864	4883	4926	4965	5011	5056				
4.0	4515	4583	4687	4789	4902	5005				
6.0	4096	4221	4405	4586	4782	4953				
8.0	3658	3836	4099	4370	4655	4903				
10.0	3278	3476	3790	4142	4523	4853				
12.0	2996	3182	3497	3913	4390	4810				
14.0	2775	2960	3251	3696	4263	4776				
16.0	2603	2769	3055	3497	4139	4748				
18.0	2432	2589	2888	3315	4011	4720				
20.0	2335	2454	2737	3157	3882	4693				
22.0	2245	2361	2581	3016	3757	4661				
24.0	2159	2277	2454	2887	3633	4631				
26.0	2080	2195	2361	2759	3507	4608				
28.0	2010	2116	2281	2635	3389	4604				
30.0	1947	2042	2202	2521	3293	4619				
32.0	1891	1977	2129	2426	3218	4642				
34.0	1846	1921	2067	2354	3158	4672				
36.0	1804	1874	2018	2303	3115	4722				
38.0	1765	1835	1981	2271	3094	4794				

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25±1°CDEG
Operators: Sebastian Vidal
Test Date: 2024-04-25

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity: MAX: 52.0-MIN: 42.0%
Test Distance: 7.080m [K=1.0000]
Remarks: ANEXO 24-0270-3-A RALEED II 48 LED
DRIVER ADVANCE XITANIUM 180W
MOD LED 2X8 Z15 5050 4K SEOUL
LENTE: RA10

Photometric Data Table [cd]

40.0	1726	1801	1952	2247	3091	4894
42.0	1693	1770	1932	2234	3110	5037
44.0	1663	1746	1918	2240	3167	5256
46.0	1660	1729	1909	2284	3298	5637
48.0	1705	1734	1924	2408	3494	5927
50.0	1785	1767	1996	2491	3291	5523
52.0	1837	1837	2083	2193	2989	5301
54.0	1841	1898	1855	1996	2905	5240
56.0	1809	1757	1675	1883	2907	5238
58.0	1767	1525	1552	1804	2936	5271
60.0	1620	1378	1442	1741	2980	5323
62.0	1414	1258	1337	1690	3035	5411
64.0	1229	1149	1248	1667	3145	5579
66.0	1093	1040	1177	1656	3183	5529
68.0	962.2	933.6	1101	1616	3230	5474
70.0	830.4	810.3	1004	1610	3301	5395
72.0	706.5	691.8	917.3	1606	3339	5094
74.0	596.1	584.2	850.5	1555	3166	4434
76.0	490.2	491.2	788.4	1233	2533	3470
78.0	388.8	392.5	675.5	878.8	1897	2448
80.0	271.0	300.1	460.3	524.8	1086	1534
82.0	153.3	197.9	286.7	281.4	471.2	932.0
84.0	75.53	111.6	114.8	163.2	261.2	334.4
86.0	23.58	25.57	46.34	45.52	52.39	181.2
88.0	5.647	9.680	16.12	23.82	28.93	30.20
90.0	6.819	11.67	19.03	28.15	33.49	33.09
92.0	8.842	14.74	23.78	34.90	41.73	41.01
94.0	11.22	18.08	28.97	42.77	51.41	50.37
96.0	13.85	21.65	34.30	51.26	62.14	60.69
98.0	16.76	25.48	39.55	59.46	72.37	70.64
100.0	20.01	29.53	44.65	65.81	79.47	78.11
102.0	23.54	33.86	49.47	70.21	83.50	82.47
104.0	27.26	38.09	53.64	73.16	85.78	84.58
106.0	30.97	42.00	56.98	75.07	86.92	85.18
108.0	34.48	45.43	59.58	76.24	87.14	84.89
110.0	37.62	48.58	61.83	77.02	86.70	84.08
112.0	40.42	51.32	63.90	77.59	85.84	82.98
114.0	42.80	53.74	65.81	78.10	84.92	81.81
116.0	44.94	55.79	67.41	78.52	84.11	80.69
118.0	46.94	57.57	68.80	78.79	83.23	79.47
120.0	48.89	59.14	69.88	78.92	82.28	78.08
122.0	50.74	60.53	70.66	78.86	81.22	76.59
124.0	52.53	61.83	71.18	78.44	79.98	75.04
126.0	54.16	63.02	71.44	77.71	78.46	73.24
128.0	55.54	63.99	71.69	76.82	76.57	70.77
130.0	57.03	64.81	71.89	75.87	74.48	68.05
132.0	58.39	65.43	71.75	74.78	72.48	65.67
134.0	59.57	65.69	71.35	73.43	70.54	63.62
136.0	60.65	66.01	70.74	72.03	68.62	61.84
138.0	61.45	66.17	69.92	70.54	66.72	60.10
140.0	61.92	66.19	69.05	69.09	65.14	58.52
142.0	62.24	66.16	68.26	67.61	63.68	57.29
144.0	62.48	66.02	67.47	66.31	62.35	56.21
146.0	62.49	65.52	66.67	65.16	61.17	55.23
148.0	62.34	64.87	65.78	64.03	60.14	54.38
150.0	62.03	64.13	64.73	63.03	59.30	53.88
152.0	61.54	63.25	63.54	61.95	58.51	53.55
154.0	60.91	62.26	62.33	60.84	57.79	53.45
156.0	60.21	61.14	61.01	59.67	57.00	53.23
158.0	59.52	60.05	59.79	58.61	56.35	53.16
160.0	58.79	59.05	58.65	57.68	55.78	53.05
162.0	57.94	58.00	57.52	56.76	55.17	52.76
164.0	56.97	56.93	56.43	55.67	54.27	52.27
166.0	56.11	55.97	55.36	54.56	53.46	51.85
168.0	55.07	54.88	54.26	53.47	52.64	51.42
170.0	53.95	53.71	52.99	52.26	51.69	50.84
172.0	52.53	52.33	51.67	51.04	50.64	50.20
174.0	51.04	50.86	50.25	49.88	49.67	49.61
176.0	49.50	49.35	48.85	48.72	48.70	49.01
178.0	47.81	47.80	47.52	47.65	47.78	48.38
180.0	45.82	45.98	46.02	46.52	46.80	47.57

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25±1°CDEG
Operators: Sebastian Vidal
Test Date: 2024-04-25

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity: MAX: 52.0-MIN: 42.0%
Test Distance: 7.080m [K=1.0000]
Remarks: ANEXO 24-0270-3-A RALEID II 48 LED
DRIVER ADVANCE XITANIUM 180W
MOD LED 2X8 Z15 5050 4K SEOUL
LENTE: RA10