

ANEXO 24-0270-2-A RALED II 48 LED RA10 140W

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: 140.4 W

I80 = 91.0 cd per klm. I88 = 1.1 cd per klm.
I90 = 1.1 cd per klm. I80/I88 = 81.174

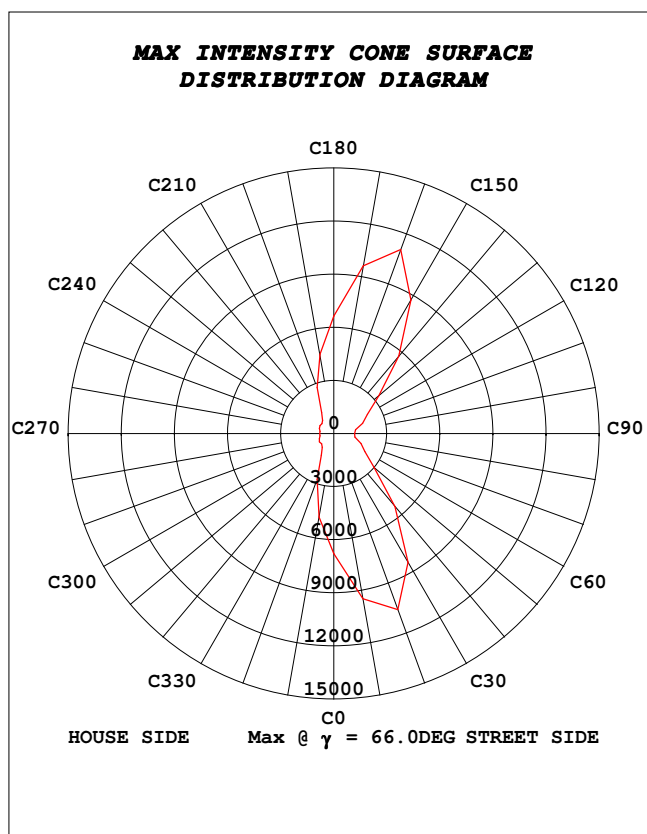
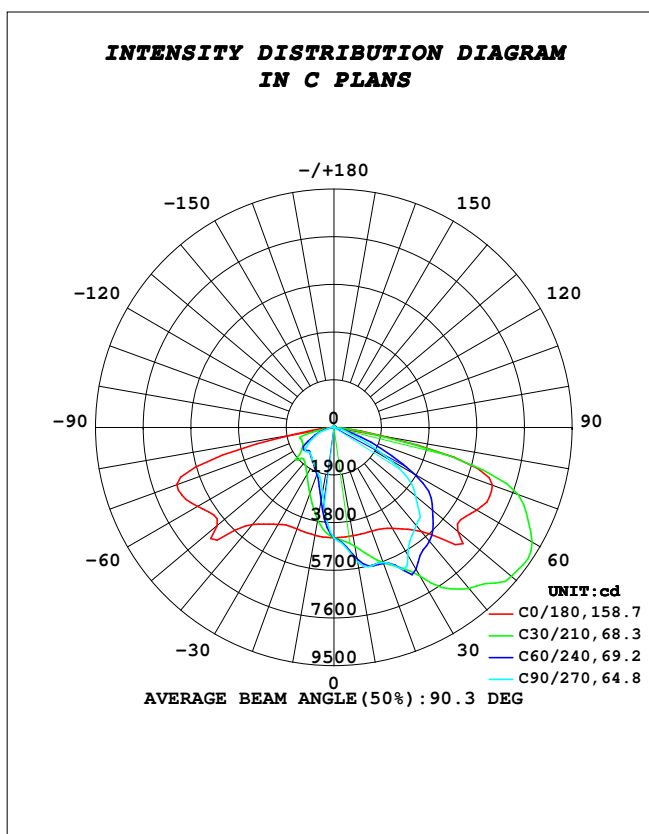
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25±1°CDEG
Operators: Sebastian Vidal
Test Date: 2024-04-25

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity: MAX: 52.5-MIN: 42.7%
Test Distance: 7.080m [K=1.0000]
Remarks: ANEXO 24-0270-2-A RALED II 48 LED 140W
DRIVER ADVANCE XITANIUM 180W
MOD LED 2X8 Z15 5050 4K SEOUL
LENTE: RA10

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:220.06V I:0.6469A P:140.37W PF:0.9860 Freq:60.01Hz Lamp Flux:20033.7x1 lm		
NAME: ANEXO 24-0270-2-A RALED II 48 LED	TYPE: Alumbrado Publico	WEIGHT:-----
SPEC.: 48 LED 140W	DIM.: -----	SERIAL No.: 24-0270-2
MFR.: ROY ALPHA	SUR.: -----	Shielding Angle:-----

DATA OF LAMP		PHOTOMETRIC DATA Eff: 142.72 lm/W			
MODEL	2X8 Z15 5050	Imax(cd)	11072	η street_up(%)	0.3
NOMINAL POWER(W)	140	LOR(%)	100.0	η street_down(%)	71.9
RATED VOLTAGE(V)	-----	TOTAL FLUX(lm)	20034	η house_up(%)	0.7
NOMINAL FLUX(lm)	20033.7	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	

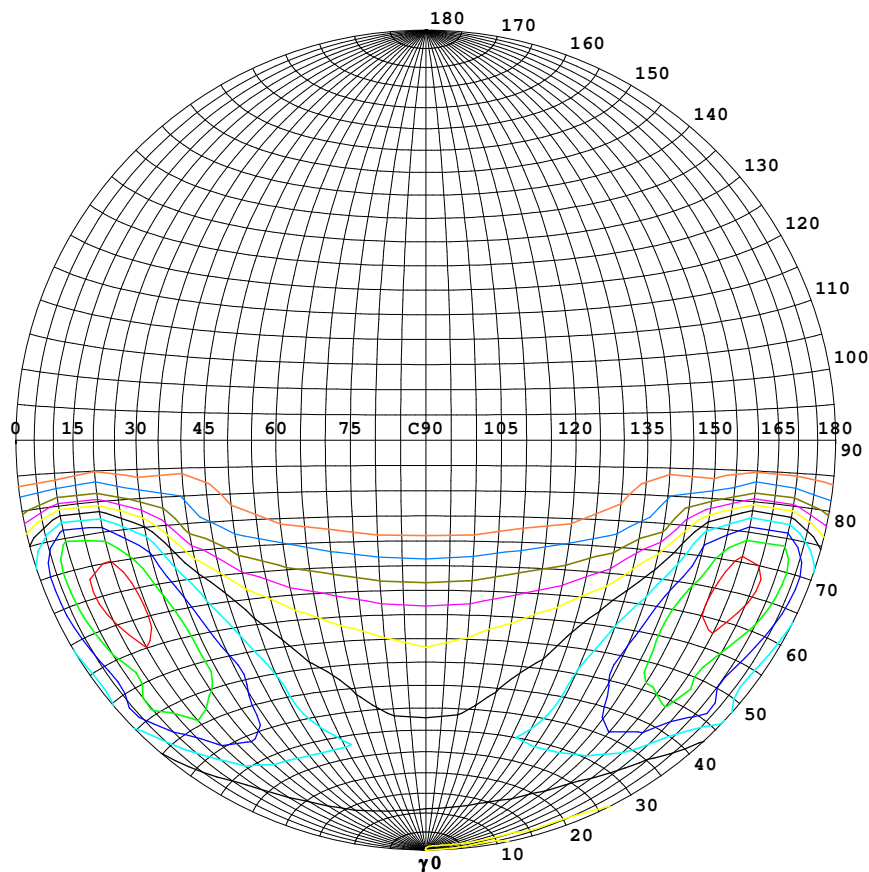


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C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25±1°C DEG
Operators: Sebastian Vidal
Test Date: 2024-04-25

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity: MAX: 52.5-MIN: 42.7%
Test Distance: 7.080m [K=1.0000]
Remarks: ANEXO 24-0270-2-A RALED II 48 LED 140W
DRIVER ADVANCE XITANIUM 180W
MOD LED 2X8 Z15 5050 4K SEOUL
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STREETLIGHT ISOCANDELA DIAGRAM

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SPEC.: 48 LED 140W	DIM.: -----	SERIAL No.: 24-0270-2
MFR.: ROY APLHA	SUR.: -----	Shielding Angle:-----



Classification:

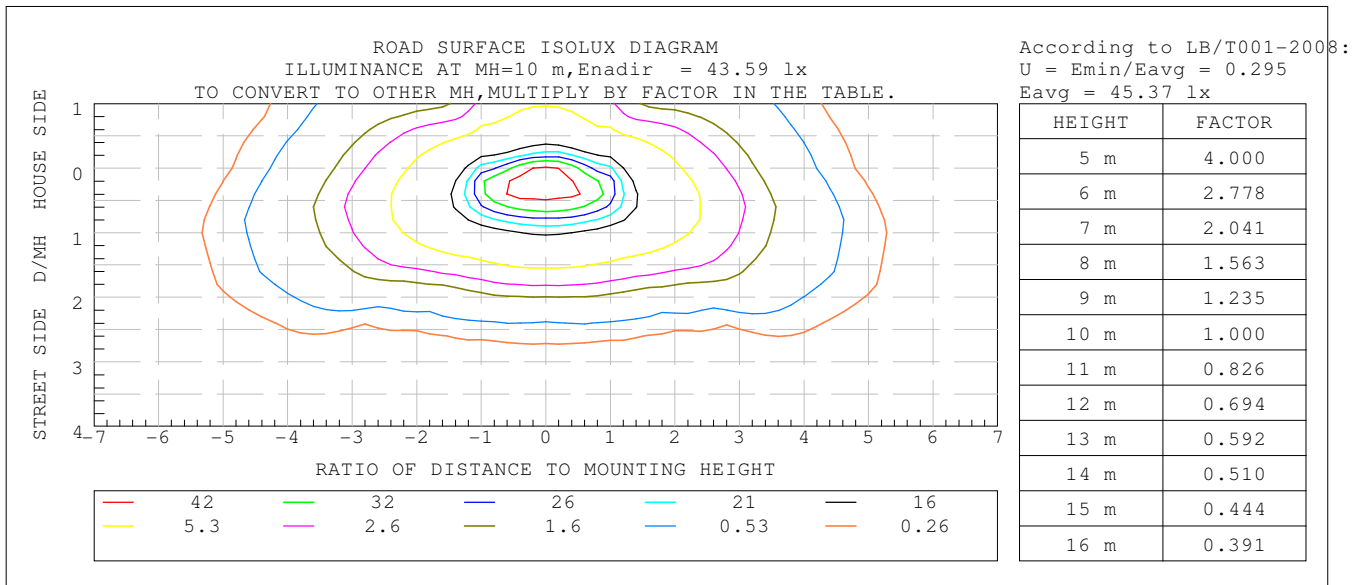
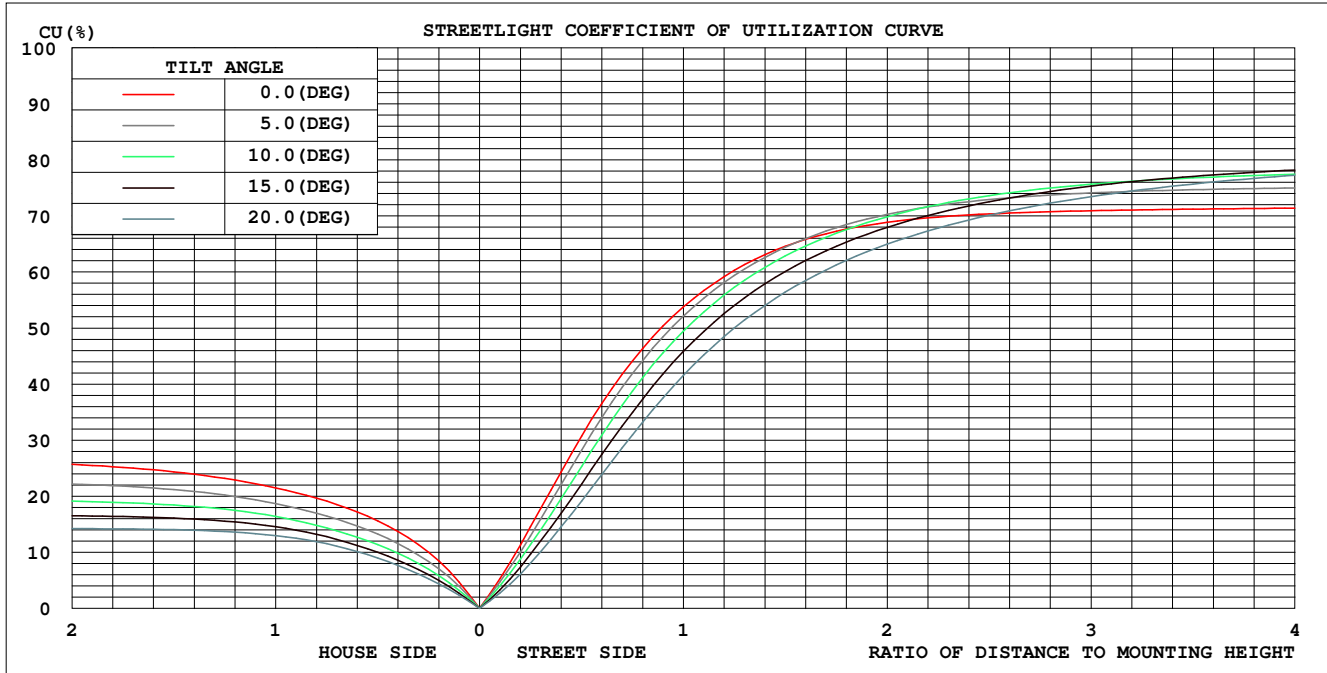
IES: Type III - Short
CIE: Narrow - Intermediate
IES: Semi cut-off
CIE: Non-cut-off
Max. At 80: 195.2cd/klm
Max. At 90: 1.423cd/klm
Max. 80-90: 195.2cd/klm
NRB 5101: Non limited[39.4%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	11072
90%	9964
80%	8857
70%	7750
60%	6643
50%	5536
40%	4429
30%	3321
20%	2214
10%	1107
5%	554

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γ Interval: 2.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.406.10
Humidity: MAX: 52.5-MIN: 42.7%
Test Distance: 7.080m [K=1.0000]
Remarks: ANEXO 24-0270-2-A RALED II 48 LED 140W
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: $25 \pm 1^\circ \text{C}$ 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: 52.5-MIN: 42.7%
Test Distance: 7.080m [K=1.0000]
Remarks: ANEXO 24-0270-2-A RALEID II 48 LED 140W
DRIVER ADVANCE XITANIUM 180W
MOD LED 2X8 Z15 5050 4K SEOUL
LENTE: RA10

ZONAL FLUX DIAGRAM

Test:U:220.06V I:0.6469A P:140.37W PF:0.9860 Freq:60.01Hz Lamp Flux:20033.7x1 lm		
NAME: ANEXO 24-0270-2-A RALED II 48 LED	TYPE:Alumbrado Publico	WEIGHT:-----
SPEC.:48 LED 140W	DIM.: -----	SERIAL No.:24-0270-2
MFR.: ROY APLHA	SUR.:-----	Shielding Angle:-----

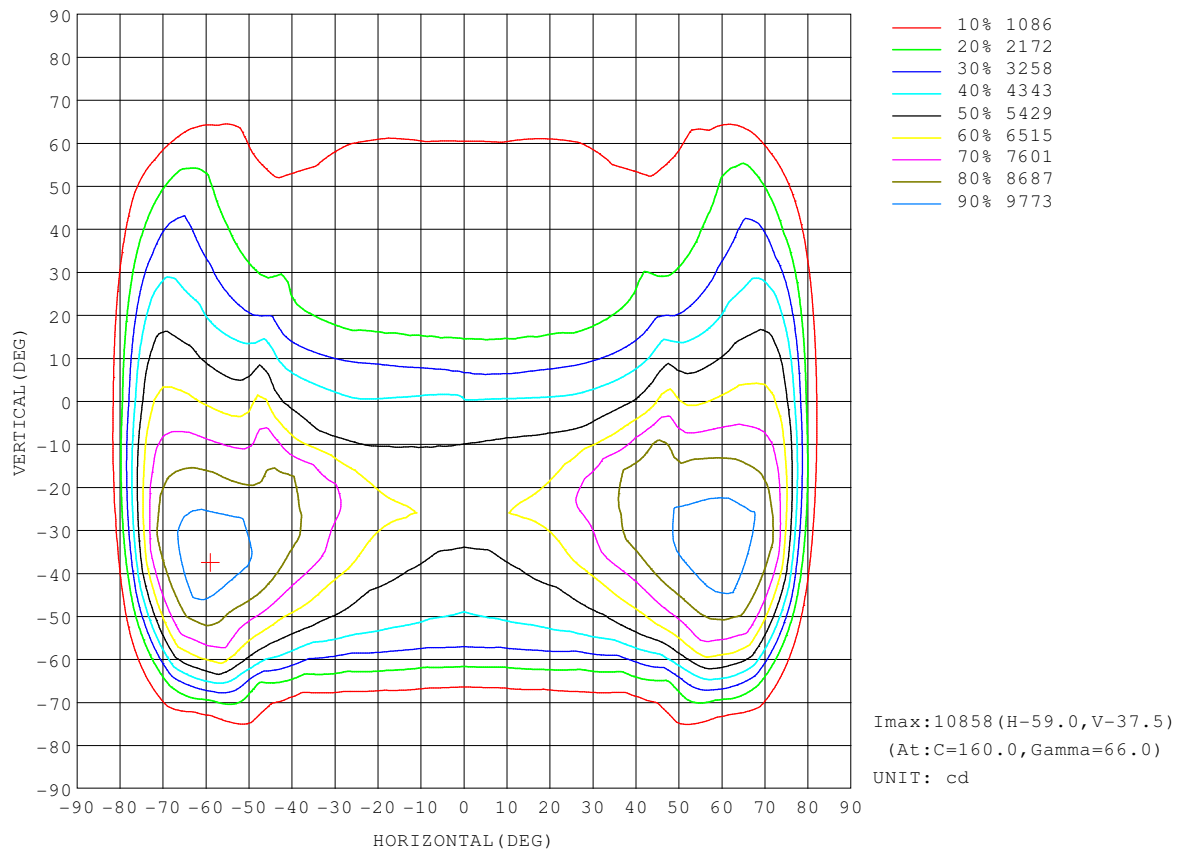
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	438.4	510.0	544.1	496.3	436.6	331.2	264.7	313.8	0- 10	405.0	405.0	2.02,2.02
20	440.5	586.8	573.1	587.2	431.3	225.2	191.8	224.1	10- 20	1165	1570	7.84,7.84
30	464.8	701.7	590.0	694.5	446.2	178.5	163.5	183.6	20- 30	1925	3495	17.4,17.4
40	541.8	709.0	511.2	722.2	505.5	153.9	143.6	162.3	30- 40	2719	6213	31,31
50	644.7	689.1	425.2	717.1	609.1	146.6	149.8	162.3	40- 50	3526	9739	48.6,48.6
60	658.0	575.6	258.8	607.4	628.8	117.3	111.2	122.3	50- 60	3883	13622	68,68
70	671.9	272.9	61.35	302.7	666.8	77.37	64.05	79.06	60- 70	3594	17216	85.9,85.9
80	182.3	73.64	16.94	76.62	172.0	32.88	14.10	33.70	70- 80	2327	19544	97.6,97.6
90	2.166	0.4617	0.2594	0.4285	2.267	1.193	0.3010	1.316	80- 90	286.1	19830	99,99
100	3.283	0.7551	0.4826	0.7158	5.423	2.967	0.9753	3.203	90-100	18.55	19848	99.1,99.1
110	5.149	1.142	0.7692	1.081	6.244	4.553	2.109	4.769	100-110	30.24	19878	99.2,99.2
120	5.638	1.457	1.074	1.347	6.211	5.281	3.226	5.562	110-120	34.70	19913	99.4,99.4
130	5.070	1.740	1.331	1.547	5.996	5.246	4.164	5.891	120-130	33.71	19947	99.6,99.6
140	4.569	2.083	1.524	1.849	5.508	5.085	4.775	5.829	130-140	29.42	19976	99.7,99.7
150	4.216	2.522	1.887	2.130	5.114	5.040	5.116	5.555	140-150	24.06	20000	99.8,99.8
160	4.131	3.030	2.468	2.491	4.965	5.012	5.063	5.076	150-160	18.05	20018	99.9,99.9
170	4.331	3.682	3.176	3.036	4.831	4.828	4.755	4.599	160-170	11.37	20030	100,100
180	4.731	4.352	4.059	3.964	4.737	4.354	4.059	3.964	170-180	3.949	20034	100,100
DEG	LUMINOUS INTENSITY: ≤ 10 cd Less than 35% Percent = 12.7 %									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:52.5-MIN:42.7%
Test Distance:7.080m [K=1.0000]
Remarks: ANEXO 24-0270-2-A RALED II 48 LED 140W
DRIVER ADVANCE XITANIUM 180W
MOD LED 2X8 Z15 5050 4K SEOUL
LENTE: RA10

ISOCANDELA DIAGRAM

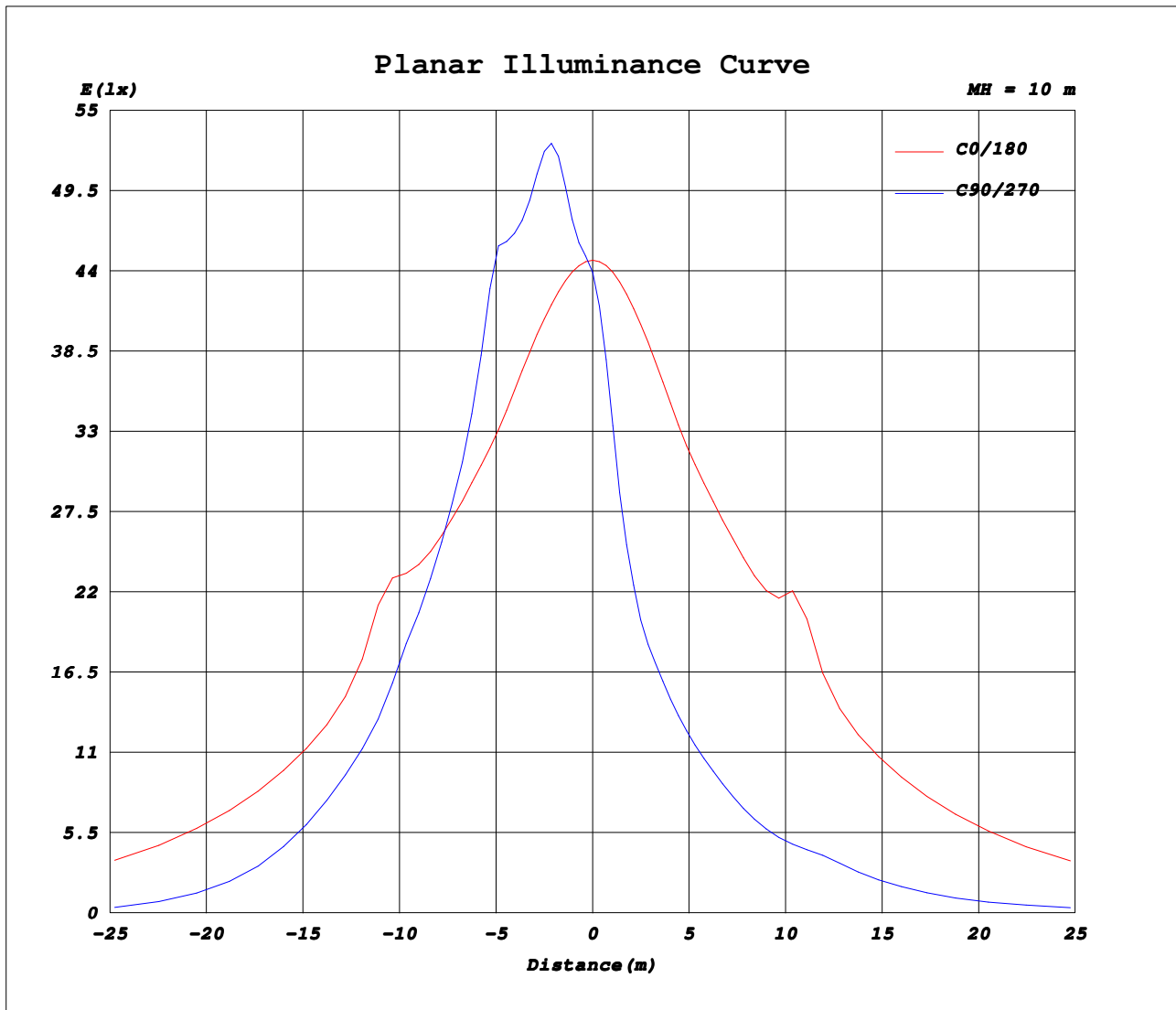
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Planar Illuminance Curve



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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: 0:11':40"
Tiempo de ensayo: 0:20':12"

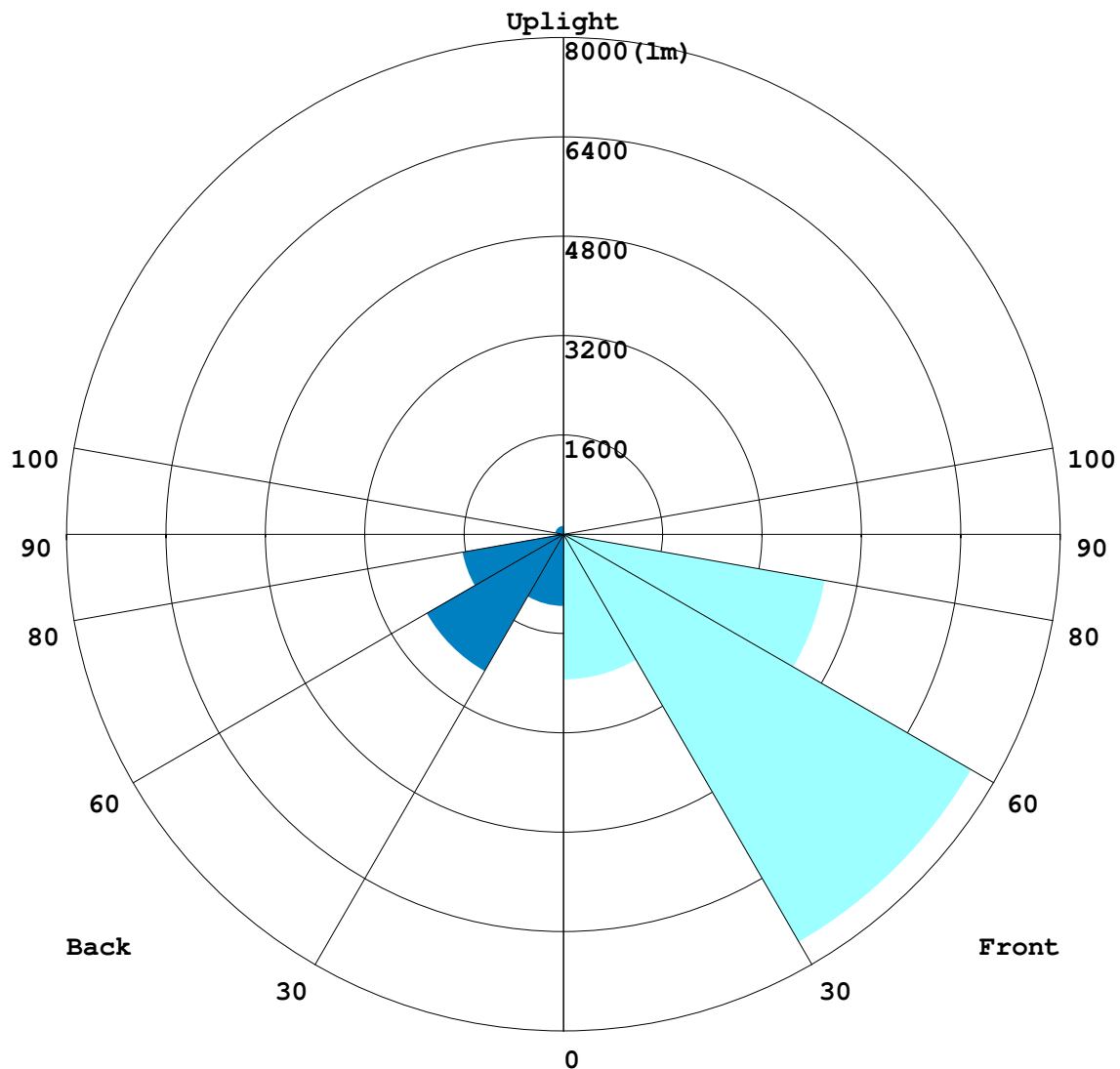
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LCS REPORT

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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)	2339.9	11.7
FM - Front-Medium(30-60)	7581	37.8
FH - Front-High(60-80)	4278.5	21.4
FVH - Front-Very High(80-90)	199.85	1.0
Total Forward Light	14460	72.2

BL - Back-Low(0-30)	1154.9	5.8
BM - Back-Medium(30-60)	2546.6	12.7
BH - Back-High(60-80)	1642.8	8.2
BVH - Back-Very High(80-90)	86.218	0.4
Total Back Light	5573.4	27.8

UL - Uplight-Low(90-100)	18.547	0.1
UH - Uplight-High(100-180)	185.51	0.9
Total Up Light	204.05	1.0

BUG (Back, Up, Glare) Rating	B3-U3-G3
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	5430.4	142.95	5573.4
Street Side	14399	61.107	14460

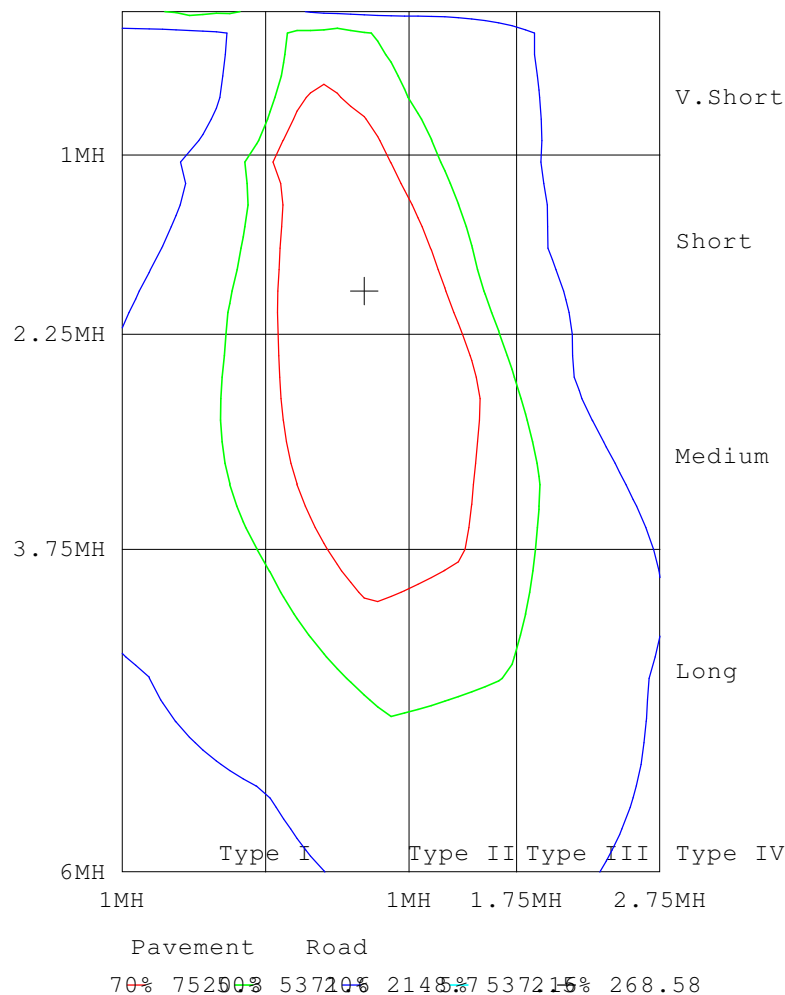
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ROAD ISOCANDELA REPORT

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SPEC.:48 LED 140W	DIM.: -----	SERIAL No.:24-0270-2
MFR.: ROY APLHA	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

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LUMINOUS DISTRIBUTION INTENSITY DATA

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Table--1

UNIT: μA10cd

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440
5	439	443	447	451	454	457	460	462	463	464	463	463	461	460	457	455	451	446	440
10	438	449	463	481	502	518	532	539	544	544	542	534	522	505	487	471	459	450	437
15	438	454	482	516	546	562	569	571	571	573	572	573	568	553	527	494	468	452	434
20	441	470	526	573	589	585	577	574	573	573	572	575	580	590	585	549	494	455	431
25	444	489	564	606	610	602	601	603	605	605	605	600	595	601	610	589	525	463	431
30	465	545	644	682	707	696	654	616	591	590	597	629	666	695	694	665	603	501	446
35	488	603	730	769	746	682	615	572	546	544	552	584	630	695	745	759	684	547	465
40	542	732	857	838	754	664	593	545	516	511	521	555	606	680	764	842	828	657	505
45	615	835	920	865	774	660	569	518	497	497	499	527	584	678	782	871	907	778	570
50	645	844	946	923	769	609	513	479	444	425	447	489	531	639	795	937	929	795	609
55	625	852	969	933	733	569	481	429	392	382	395	443	500	600	769	965	962	815	593
60	658	911	1039	912	665	486	370	312	269	259	272	322	386	518	697	973	1050	890	629
65	679	941	1065	863	600	370	256	211	172	163	176	220	274	396	624	914	1101	945	656
70	672	962	986	780	375	170	114	72.2	62.0	61.3	62.6	75.3	115	183	422	814	1048	979	667
75	597	899	851	622	176	82.9	54.1	47.1	39.7	39.5	40.3	48.7	55.7	84.9	191	699	883	896	575
80	182	369	364	170	104	42.7	22.7	19.8	17.3	16.9	17.8	20.3	23.7	45.3	108	173	391	363	172
85	36.0	51.6	83.1	46.2	54.5	17.3	10.2	7.70	6.75	5.42	7.03	7.98	10.7	18.5	53.5	46.0	84.5	73.6	48.0
90	2.17	1.66	1.23	0.75	0.55	0.37	0.33	0.30	0.28	0.26	0.28	0.29	0.31	0.36	0.50	0.67	1.05	1.53	2.27
95	2.59	2.00	1.39	0.92	0.64	0.46	0.39	0.35	0.34	0.33	0.34	0.35	0.38	0.45	0.59	0.84	1.29	1.88	3.42
100	3.28	2.56	1.82	1.23	0.86	0.65	0.55	0.50	0.49	0.48	0.49	0.50	0.54	0.62	0.81	1.15	1.73	2.48	5.42
105	3.98	3.07	2.19	1.48	1.05	0.79	0.66	0.60	0.59	0.59	0.60	0.60	0.65	0.75	0.98	1.40	2.10	3.03	6.08
110	5.15	3.90	2.77	1.89	1.31	0.97	0.82	0.74	0.77	0.77	0.77	0.75	0.80	0.93	1.23	1.79	2.70	3.89	6.24
115	5.53	4.22	3.01	2.05	1.45	1.10	0.91	0.86	0.90	0.89	0.90	0.86	0.89	1.04	1.37	1.95	2.93	4.21	6.19
120	5.64	4.40	3.21	2.27	1.65	1.26	1.07	1.05	1.08	1.07	1.07	1.04	1.04	1.17	1.52	2.12	3.05	4.31	6.21
125	5.50	4.38	3.27	2.38	1.76	1.37	1.20	1.19	1.20	1.19	1.18	1.17	1.14	1.26	1.57	2.14	2.99	4.14	6.20
130	5.07	4.19	3.27	2.48	1.91	1.57	1.41	1.38	1.35	1.33	1.32	1.32	1.32	1.42	1.68	2.14	2.82	3.75	6.00
135	4.80	4.08	3.28	2.55	2.03	1.70	1.56	1.48	1.44	1.41	1.39	1.39	1.44	1.54	1.78	2.18	2.77	3.52	5.81
140	4.57	3.95	3.32	2.71	2.23	1.94	1.76	1.64	1.57	1.52	1.49	1.49	1.57	1.73	1.96	2.31	2.76	3.33	5.51
145	4.42	3.90	3.35	2.81	2.39	2.11	1.90	1.77	1.70	1.64	1.60	1.60	1.68	1.85	2.08	2.37	2.73	3.22	5.33
150	4.22	3.84	3.43	3.03	2.67	2.38	2.17	2.03	1.95	1.89	1.85	1.85	1.90	2.03	2.23	2.47	2.73	3.06	5.11
155	4.17	3.86	3.52	3.17	2.85	2.58	2.38	2.25	2.16	2.09	2.05	2.05	2.09	2.18	2.35	2.54	2.74	3.03	5.04
160	4.13	3.88	3.64	3.40	3.14	2.92	2.73	2.63	2.54	2.47	2.41	2.39	2.40	2.44	2.54	2.67	2.84	3.10	4.96
165	4.15	3.95	3.75	3.57	3.37	3.17	3.00	2.91	2.81	2.74	2.68	2.65	2.63	2.64	2.70	2.82	2.97	3.19	4.91
170	4.33	4.19	4.08	3.92	3.76	3.61	3.44	3.36	3.26	3.18	3.11	3.05	3.01	3.00	3.07	3.17	3.31	3.46	4.83
175	4.59	4.47	4.34	4.18	4.03	3.90	3.73	3.68	3.58	3.49	3.41	3.36	3.33	3.34	3.41	3.51	3.64	3.78	4.80
180	4.73	4.68	4.57	4.48	4.38	4.32	4.19	4.18	4.10	4.06	4.01	3.99	3.95	3.96	3.96	4.00	4.03	4.10	4.74

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: 52.5-MIN: 42.7%

Test Distance: 7.080m [K=1.0000]

Remarks: ANEXO 24-0270-2-A RALEL II 48 LED 140W

DRIVER ADVANCE TITANIUM 180W

MOD LED 2X8 Z15 5050 4K SEOUL

LENTE: RA10

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.06V I:0.6469A P:140.37W PF:0.9860 Freq:60.01Hz Lamp Flux:20033.7x1 lm		
NAME: ANEXO 24-0270-2-A RALED II 48 LED	TYPE:Alumbrado Publico	WEIGHT:-----
SPEC.:48 LED 140W	DIM.: -----	SERIAL No.:24-0270-2
MFR.: ROY APLHA	SUR.:-----	Shielding Angle:-----

Table--2

UNIT: μA10cd

γ (DEG) \ C (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440		
5	435	430	423	416	407	400	392	388	383	383	384	390	395	404	413	423	432		
10	424	404	375	346	316	294	277	274	265	271	271	283	300	327	357	390	419		
15	416	382	336	294	262	243	230	224	220	222	228	239	256	281	319	368	412		
20	405	347	281	239	212	200	194	192	192	193	196	202	212	236	273	336	405		
25	398	323	252	212	193	185	179	177	178	178	181	187	197	212	250	314	400		
30	394	290	217	185	172	165	163	163	163	163	165	168	177	191	218	285	399		
35	394	274	199	173	161	156	156	155	156	156	158	160	166	179	204	273	404		
40	402	260	182	159	149	145	146	143	144	144	149	149	156	169	194	267	423		
45	427	260	175	152	141	139	138	138	140	139	142	144	151	166	194	274	454		
50	456	277	202	158	135	144	146	146	150	148	149	154	153	172	216	287	480		
55	436	254	162	146	152	150	145	140	139	137	144	159	164	161	173	252	454		
60	439	262	144	120	115	131	126	113	111	112	127	140	119	125	151	258	461		
65	461	275	140	104	96.2	102	98.4	89.3	89.2	89.3	99.4	107	99.6	108	144	272	484		
70	450	288	140	85.2	69.5	71.1	68.9	64.6	64.1	64.1	68.5	72.2	70.6	87.5	140	286	469		
75	381	251	141	73.0	49.8	51.4	52.0	45.1	42.3	45.1	51.5	51.8	50.9	74.0	136	263	390		
80	139	78.6	46.3	40.8	24.9	23.5	19.1	15.3	14.1	15.2	19.1	23.7	26.4	41.0	47.0	99.7	138		
85	29.4	13.1	14.2	10.4	9.53	6.65	6.30	4.53	4.04	4.53	6.19	6.75	10.00	10.5	14.8	24.5	31.5		
90	2.79	2.73	2.25	1.49	0.90	0.52	0.37	0.31	0.30	0.33	0.41	0.58	1.00	1.63	2.41	2.85	2.80		
95	4.26	4.21	3.45	2.30	1.41	0.87	0.64	0.53	0.52	0.55	0.69	0.96	1.56	2.49	3.67	4.38	4.28		
100	6.70	6.64	5.37	3.58	2.35	1.59	1.20	1.00	0.98	1.04	1.28	1.72	2.54	3.86	5.70	6.85	6.71		
105	7.28	7.27	6.10	4.36	3.06	2.19	1.68	1.43	1.39	1.47	1.77	2.35	3.29	4.65	6.34	7.42	7.29		
110	7.33	7.46	6.55	5.15	3.96	3.07	2.47	2.17	2.11	2.21	2.55	3.24	4.19	5.35	6.66	7.50	7.25		
115	7.19	7.37	6.66	5.48	4.40	3.53	2.93	2.64	2.58	2.67	2.98	3.69	4.63	5.68	6.75	7.34	7.05		
120	7.00	7.13	6.62	5.74	4.82	4.04	3.53	3.27	3.23	3.30	3.56	4.21	5.10	6.03	6.80	7.09	6.72		
125	6.83	6.86	6.39	5.68	4.97	4.34	3.92	3.66	3.63	3.70	3.96	4.53	5.33	6.14	6.76	6.89	6.46		
130	6.42	6.31	5.89	5.45	5.04	4.65	4.38	4.18	4.16	4.24	4.51	4.92	5.58	6.20	6.54	6.42	5.86		
135	6.14	6.00	5.62	5.29	5.01	4.80	4.59	4.44	4.45	4.53	4.76	5.14	5.66	6.15	6.33	6.08	5.48		
140	5.76	5.68	5.40	5.15	5.02	4.90	4.79	4.73	4.77	4.85	5.03	5.34	5.70	5.95	5.96	5.61	5.05		
145	5.55	5.50	5.30	5.12	5.05	4.94	4.90	4.89	4.95	5.01	5.15	5.39	5.69	5.82	5.72	5.38	4.85		
150	5.29	5.28	5.18	5.07	5.01	4.96	5.01	5.06	5.12	5.15	5.23	5.36	5.53	5.58	5.43	5.11	4.65		
155	5.21	5.20	5.13	5.03	4.99	4.94	5.02	5.08	5.14	5.15	5.20	5.26	5.37	5.37	5.24	4.98	4.61		
160	5.09	5.12	5.09	5.03	4.99	4.92	4.98	5.02	5.06	5.06	5.07	5.08	5.09	5.06	4.97	4.81	4.58		
165	4.99	5.02	5.00	4.98	4.98	4.90	4.95	4.96	4.97	4.95	4.94	4.92	4.91	4.87	4.80	4.68	4.51		
170	4.86	4.85	4.84	4.83	4.83	4.77	4.81	4.78	4.75	4.72	4.69	4.65	4.63	4.57	4.50	4.45	4.38		
175	4.80	4.75	4.71	4.67	4.65	4.57	4.60	4.56	4.52	4.48	4.44	4.41	4.38	4.33	4.30	4.28	4.28		
180	4.68	4.58	4.48	4.39	4.32	4.19	4.18	4.10	4.06	4.01	3.98	3.96	3.96	3.96	4.01	4.03	4.10		

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: 52.5-MIN: 42.7%

Test Distance: 7.080m [K=1.0000]

Remarks: ANEXO 24-0270-2-A RALED II 48 LED 140W

DRIVER ADVANCE XITANIUM 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	4400	4400	4400	4400	4400	4400	4400	4400	4400	4400
2.0	4397	4416	4434	4451	4465	4480	4490	4503	4510	4520
4.0	4395	4432	4470	4506	4542	4573	4601	4619	4634	4637
6.0	4393	4451	4513	4579	4656	4722	4784	4819	4848	4841
8.0	4389	4470	4565	4681	4819	4933	5039	5097	5145	5137
10.0	4384	4489	4631	4813	5018	5182	5317	5390	5440	5441
12.0	4381	4511	4715	4973	5242	5428	5548	5608	5635	5647
14.0	4385	4545	4823	5159	5459	5622	5687	5713	5708	5726
16.0	4391	4588	4953	5358	5646	5746	5741	5731	5698	5715
18.0	4395	4636	5101	5554	5787	5811	5751	5715	5679	5690
20.0	4405	4698	5264	5733	5888	5848	5768	5738	5725	5731
22.0	4421	4782	5445	5895	5983	5904	5843	5839	5856	5856
24.0	4443	4891	5644	6060	6100	6018	6009	6029	6055	6049
26.0	4487	5035	5865	6254	6273	6257	6328	6322	6315	6309
28.0	4556	5221	6131	6492	6588	6691	6644	6415	6228	6229
30.0	4648	5450	6445	6822	7072	6962	6537	6156	5909	5900
32.0	4755	5726	6804	7322	7336	6930	6330	5898	5633	5619
34.0	4876	6028	7303	7694	7458	6825	6155	5721	5464	5437
36.0	5025	6378	7780	7959	7510	6725	6047	5620	5355	5313
38.0	5201	6841	8179	8187	7523	6666	5993	5536	5262	5203
40.0	5418	7323	8572	8379	7535	6643	5930	5447	5161	5112
42.0	5724	7807	8939	8505	7609	6636	5829	5325	5073	5022
44.0	6153	8355	9204	8655	7739	6595	5690	5179	4966	4974
46.0	6735	8804	9311	8935	7859	6490	5512	5009	4799	4710
48.0	6925	8729	9487	9186	7829	6314	5314	4865	4640	4447
50.0	6447	8436	9464	9226	7690	6090	5133	4786	4444	4252
52.0	6251	8370	9496	9262	7521	5879	4978	4570	4206	4067
54.0	6252	8525	9685	9326	7328	5687	4806	4286	3922	3817
56.0	6349	8727	9917	9347	7105	5491	4558	3974	3580	3482
58.0	6465	8927	10166	9276	6873	5235	4190	3589	3170	3075
60.0	6580	9115	10387	9116	6645	4863	3701	3122	2694	2588
62.0	6687	9270	10562	8882	6387	4350	3132	2616	2203	2101
64.0	6791	9409	10646	8634	6001	3705	2563	2111	1723	1633
66.0	6792	9480	10583	8399	5391	2994	2044	1638	1229	1175
68.0	6780	9563	10316	8149	4577	2309	1597	1132	923.7	755.1
70.0	6719	9618	9859	7803	3749	1705	1142	721.8	620.1	613.5
72.0	6507	9507	9268	7232	2728	1178	740.3	583.1	507.7	501.3
74.0	5967	8988	8513	6220	1765	828.7	541.0	470.8	397.3	394.7
76.0	4929	7889	7505	4843	1283	651.4	440.8	362.9	308.0	310.6
78.0	3444	6027	5854	3266	1164	539.6	322.5	280.4	233.8	240.0
80.0	1823	3694	3642	1699	1045	427.1	226.7	198.0	173.2	169.4
82.0	1088	1363	1496	883.3	880.6	300.0	155.4	128.9	120.4	114.4
84.0	359.6	516.3	830.6	461.5	545.0	173.1	102.3	77.00	67.49	54.21
86.0	188.5	266.8	172.7	241.9	206.3	81.12	49.37	40.03	30.06	13.70
88.0	22.46	20.34	88.79	24.15	104.2	19.21	14.41	13.49	9.189	3.774
90.0	21.66	16.58	12.35	7.497	5.501	3.731	3.319	2.974	2.808	2.594
92.0	23.73	18.22	12.59	8.308	5.657	4.069	3.433	3.085	2.999	2.881
94.0	25.89	19.99	13.90	9.234	6.375	4.628	3.920	3.538	3.438	3.329
96.0	28.07	21.79	15.28	10.21	7.110	5.229	4.430	4.019	3.904	3.806
98.0	30.29	23.59	16.67	11.22	7.861	5.815	4.961	4.526	4.390	4.303
100.0	32.83	25.58	18.20	12.31	8.642	6.456	5.522	5.014	4.876	4.826
102.0	36.02	28.02	19.92	13.48	9.525	7.166	6.085	5.483	5.386	5.361
104.0	39.83	30.74	21.91	14.82	10.51	7.897	6.636	5.969	5.923	5.912
106.0	44.04	33.70	24.04	16.27	11.49	8.549	7.171	6.445	6.480	6.497
108.0	48.12	36.59	26.01	17.65	12.35	9.144	7.684	6.914	7.076	7.087
110.0	51.49	39.05	27.74	18.87	13.11	9.727	8.189	7.437	7.715	7.692
112.0	53.85	40.95	29.12	19.79	13.78	10.35	8.666	8.010	8.349	8.302
114.0	55.25	42.24	30.08	20.51	14.48	10.97	9.114	8.619	8.978	8.923
116.0	56.07	43.05	30.88	21.28	15.21	11.54	9.570	9.233	9.572	9.536
118.0	56.43	43.63	31.56	22.03	15.90	12.09	10.13	9.795	10.18	10.14
120.0	56.38	43.99	32.15	22.72	16.52	12.61	10.72	10.48	10.80	10.74
122.0	55.85	44.01	32.52	23.30	17.08	13.12	11.34	11.19	11.40	11.32
124.0	54.96	43.78	32.74	23.78	17.56	13.71	11.97	11.94	11.96	11.87
126.0	53.72	43.35	32.83	24.16	18.04	14.35	12.57	12.68	12.51	12.37
128.0	52.27	42.70	32.81	24.45	18.59	15.00	13.28	13.27	13.03	12.84
130.0	50.70	41.93	32.72	24.75	19.14	15.66	14.05	13.80	13.49	13.31
132.0	49.04	41.21	32.72	25.16	19.67	16.37	14.83	14.31	13.94	13.72
134.0	48.03	40.75	32.75	25.53	20.28	17.01	15.57	14.80	14.35	14.09
136.0	47.19	40.33	32.82	25.94	20.97	17.78	16.30	15.29	14.77	14.45
138.0	46.46	39.91	32.92	26.46	21.60	18.56	16.92	15.81	15.21	14.82
140.0	45.69	39.52	33.15	27.06	22.29	19.36	17.55	16.38	15.70	15.24
142.0	44.96	39.27	33.41	27.51	23.08	20.21	18.24	17.01	16.29	15.75
144.0	44.21	39.05	33.47	28.06	23.88	21.05	19.00	17.70	16.96	16.37
146.0	43.15	38.55	33.65	28.71	24.80	21.89	19.87	18.52	17.71	17.10

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: 52.5-MIN: 42.7%
Test Distance: 7.080m [K=1.0000]
Remarks: ANEXO 24-0270-2-A RALEED II 48 LED 140W
DRIVER ADVANCE TITANIUM 180W
MOD LED 2X8 Z15 5050 4K SEOUL
LENTE: RA10

Photometric Data Table [cd]

148.0	42.59	38.44	33.95	29.44	25.76	22.82	20.77	19.40	18.56	17.94
150.0	42.16	38.43	34.33	30.25	26.67	23.78	21.75	20.35	19.47	18.87
152.0	41.85	38.49	34.85	30.98	27.59	24.80	22.78	21.39	20.45	19.86
154.0	41.72	38.61	35.18	31.66	28.52	25.81	23.82	22.49	21.57	20.94
156.0	41.54	38.61	35.49	32.38	29.47	26.87	24.91	23.70	22.78	22.11
158.0	41.37	38.67	35.88	33.18	30.44	27.97	26.08	24.98	24.09	23.37
160.0	41.31	38.85	36.36	33.98	31.43	29.16	27.31	26.29	25.43	24.68
162.0	41.31	39.10	36.90	34.82	32.51	30.41	28.61	27.67	26.78	26.03
164.0	41.46	39.48	37.54	35.74	33.66	31.74	29.97	29.07	28.15	27.43
166.0	41.81	40.05	38.41	36.80	34.90	33.15	31.38	30.53	29.56	28.86
168.0	42.43	40.83	39.50	37.93	36.21	34.58	32.85	32.04	31.03	30.28
170.0	43.31	41.87	40.78	39.17	37.56	36.08	34.41	33.56	32.59	31.76
172.0	44.50	43.27	42.13	40.46	38.97	37.61	35.89	35.15	34.19	33.29
174.0	45.93	44.69	43.38	41.81	40.33	39.02	37.32	36.76	35.80	34.87
176.0	46.72	45.56	44.26	42.84	41.43	40.34	38.76	38.31	37.40	36.53
178.0	47.01	46.17	45.00	43.84	42.64	41.80	40.35	40.05	39.21	38.53
180.0	47.31	46.82	45.75	44.83	43.82	43.22	41.89	41.77	41.01	40.59
G/C	100.0	110.0	120.0	130.0	140.0	150.0	160.0	170.0	180.0	190.0
0.0	4400	4400	4400	4400	4400	4400	4400	4400	4400	4400
2.0	4522	4529	4519	4519	4504	4488	4462	4433	4399	4379
4.0	4634	4629	4609	4597	4571	4548	4511	4462	4396	4354
6.0	4829	4790	4743	4692	4638	4595	4545	4485	4392	4323
8.0	5112	5041	4953	4842	4734	4644	4569	4499	4381	4283
10.0	5420	5341	5223	5052	4875	4712	4593	4504	4366	4238
12.0	5634	5592	5487	5297	5059	4809	4627	4509	4354	4196
14.0	5724	5731	5675	5532	5271	4943	4678	4518	4344	4158
16.0	5725	5772	5773	5715	5494	5110	4746	4527	4335	4121
18.0	5698	5757	5801	5833	5688	5297	4833	4536	4322	4084
20.0	5725	5753	5801	5897	5847	5494	4945	4550	4313	4049
22.0	5842	5821	5831	5940	5974	5692	5082	4578	4311	4012
24.0	6048	6000	5948	6015	6097	5893	5249	4627	4314	3977
26.0	6332	6331	6257	6170	6252	6106	5457	4711	4338	3954
28.0	6290	6528	6669	6565	6485	6352	5713	4834	4390	3939
30.0	5969	6291	6662	6955	6936	6655	6025	5006	4462	3935
32.0	5695	6022	6474	7004	7276	7137	6375	5220	4549	3938
34.0	5520	5836	6300	6953	7449	7586	6838	5471	4646	3943
36.0	5405	5728	6187	6877	7563	7897	7376	5752	4764	3959
38.0	5312	5641	6125	6824	7617	8173	7831	6110	4895	3982
40.0	5210	5549	6059	6803	7640	8416	8280	6571	5055	4022
42.0	5114	5423	5964	6799	7698	8577	8727	7094	5298	4099
44.0	4988	5267	5835	6781	7815	8711	9070	7784	5705	4274
46.0	4836	5111	5671	6726	7974	8966	9139	8465	6477	4706
48.0	4728	4966	5484	6592	8018	9280	9352	8340	6618	4961
50.0	4471	4888	5311	6394	7948	9375	9292	7948	6091	4561
52.0	4241	4723	5164	6194	7847	9481	9387	7955	5910	4401
54.0	3948	4427	5003	5999	7693	9653	9619	8150	5927	4359
56.0	3609	4083	4761	5808	7494	9786	9893	8379	6027	4350
58.0	3196	3676	4377	5554	7247	9818	10190	8628	6159	4362
60.0	2722	3221	3864	5180	6967	9730	10500	8896	6288	4395
62.0	2231	2710	3320	4628	6639	9498	10778	9173	6428	4460
64.0	1757	2200	2739	3961	6236	9136	11005	9451	6564	4612
66.0	1256	1733	2191	3305	5728	8714	11072	9628	6638	4569
68.0	939.9	1199	1686	2570	5085	8349	10905	9742	6693	4527
70.0	625.9	753.4	1154	1835	4219	8137	10477	9792	6668	4500
72.0	512.9	602.8	750.2	1207	3133	7832	9760	9600	6429	4323
74.0	402.7	486.9	556.7	848.7	1908	6991	8834	8958	5746	3805
76.0	313.6	374.6	452.4	677.5	1342	5566	7817	7777	4574	3051
78.0	237.7	288.7	334.2	568.6	1211	3648	6253	5923	3145	2210
80.0	177.7	202.9	236.9	452.8	1080	1734	3910	3630	1720	1388
82.0	122.1	133.1	161.7	318.7	913.4	785.6	1561	1347	885.2	839.2
84.0	70.34	79.75	107.1	185.0	535.1	460.1	845.3	735.7	480.5	293.6
86.0	31.28	41.44	52.54	85.61	192.6	135.7	149.6	128.2	76.56	158.0
88.0	9.688	14.02	15.55	20.29	97.52	18.11	79.49	16.96	20.56	23.80
90.0	2.767	2.900	3.145	3.551	5.019	6.684	10.51	15.29	22.67	27.89
92.0	2.939	3.040	3.334	3.896	5.214	7.481	11.54	17.00	27.93	34.61
94.0	3.380	3.491	3.813	4.452	5.911	8.387	12.86	18.82	34.18	42.63
96.0	3.862	3.969	4.312	5.017	6.633	9.389	14.25	20.72	41.09	51.51
98.0	4.356	4.468	4.831	5.574	7.366	10.43	15.72	22.64	48.12	60.27
100.0	4.876	4.985	5.377	6.179	8.136	11.55	17.28	24.82	54.23	66.97
102.0	5.407	5.494	5.929	6.837	8.937	12.75	19.03	27.43	58.41	70.85
104.0	5.956	5.981	6.464	7.514	9.833	14.03	21.01	30.31	60.79	72.81
106.0	6.527	6.458	6.994	8.144	10.73	15.40	23.14	33.36	61.94	73.60
108.0	7.121	6.942	7.504	8.726	11.56	16.73	25.18	36.33	62.43	73.72
110.0	7.737	7.479	7.993	9.303	12.31	17.92	26.97	38.86	62.44	73.33

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: 52.5-MIN: 42.7%
Test Distance: 7.080m [K=1.0000]
Remarks: ANEXO 24-0270-2-A RALEID II 48 LED 140W
DRIVER ADVANCE XITANUM 180W
MOD LED 2X8 Z15 5050 4K SEOUL
LENTE: RA10

Photometric Data Table [cd]

112.0	8.352	8.040	8.453	9.886	12.99	18.80	28.36	40.79	62.21	72.63
114.0	8.961	8.629	8.888	10.45	13.66	19.55	29.30	42.12	61.94	71.89
116.0	9.551	9.165	9.363	10.95	14.29	20.23	29.98	42.90	61.91	71.30
118.0	10.14	9.742	9.863	11.37	14.81	20.81	30.37	43.20	61.98	70.69
120.0	10.73	10.38	10.38	11.75	15.20	21.21	30.50	43.07	62.11	69.97
122.0	11.29	11.04	10.89	12.15	15.45	21.36	30.34	42.39	62.12	69.19
124.0	11.81	11.70	11.37	12.61	15.67	21.36	29.92	41.39	62.02	68.27
126.0	12.31	12.24	11.87	13.07	15.96	21.31	29.40	40.21	61.72	67.18
128.0	12.77	12.75	12.51	13.58	16.37	21.31	28.81	38.89	60.94	65.70
130.0	13.19	13.21	13.18	14.16	16.79	21.39	28.24	37.49	59.96	64.16
132.0	13.55	13.58	13.82	14.71	17.25	21.58	27.87	36.16	59.03	62.76
134.0	13.85	13.89	14.37	15.38	17.84	21.78	27.68	35.21	58.08	61.45
136.0	14.15	14.19	14.83	16.06	18.48	22.10	27.48	34.52	57.13	60.17
138.0	14.47	14.51	15.25	16.72	19.04	22.65	27.41	33.86	56.11	58.85
140.0	14.86	14.89	15.70	17.33	19.65	23.15	27.57	33.29	55.08	57.64
142.0	15.36	15.37	16.21	17.90	20.21	23.42	27.64	32.99	54.15	56.57
144.0	15.98	15.99	16.82	18.47	20.77	23.73	27.34	32.18	53.27	55.49
146.0	16.72	16.70	17.47	19.03	21.32	24.02	27.25	31.38	52.46	54.50
148.0	17.58	17.53	18.21	19.64	21.82	24.39	27.24	30.94	51.72	53.60
150.0	18.48	18.47	19.04	20.29	22.31	24.74	27.28	30.61	51.14	52.95
152.0	19.45	19.44	19.92	21.01	22.84	25.01	27.34	30.43	50.65	52.43
154.0	20.51	20.47	20.87	21.81	23.46	25.38	27.44	30.34	50.39	52.08
156.0	21.64	21.56	21.87	22.64	24.09	25.81	27.64	30.45	50.13	51.66
158.0	22.84	22.70	22.91	23.51	24.72	26.24	27.97	30.71	49.88	51.32
160.0	24.13	23.92	23.99	24.42	25.39	26.74	28.43	31.04	49.65	50.94
162.0	25.47	25.17	25.11	25.38	26.14	27.39	29.01	31.41	49.40	50.48
164.0	26.85	26.48	26.25	26.37	27.01	28.18	29.72	31.86	49.10	49.94
166.0	28.27	27.79	27.45	27.46	28.04	29.20	30.64	32.52	48.83	49.48
168.0	29.73	29.14	28.71	28.67	29.25	30.37	31.74	33.41	48.58	49.05
170.0	31.14	30.52	30.08	30.05	30.67	31.75	33.08	34.58	48.31	48.62
172.0	32.57	31.98	31.59	31.64	32.28	33.34	34.63	36.04	48.11	48.27
174.0	34.11	33.58	33.28	33.41	34.07	35.13	36.38	37.81	48.02	48.01
176.0	35.83	35.40	35.17	35.32	35.85	36.81	37.91	39.17	47.78	47.70
178.0	37.96	37.68	37.42	37.58	37.90	38.65	39.23	40.10	47.49	47.30
180.0	40.07	39.86	39.53	39.64	39.64	40.02	40.28	40.96	47.37	46.81
G/C	200.0	210.0	220.0	230.0	240.0	250.0	260.0	270.0	280.0	290.0
0.0	4400	4400	4400	4400	4400	4400	4400	4400	4400	4400
2.0	4358	4330	4307	4272	4249	4214	4199	4174	4175	4170
4.0	4301	4231	4163	4073	4004	3917	3878	3829	3835	3838
6.0	4229	4099	3966	3804	3676	3535	3471	3403	3419	3435
8.0	4141	3936	3725	3489	3304	3124	3045	2975	2995	3031
10.0	4037	3750	3461	3162	2944	2768	2742	2647	2710	2708
12.0	3927	3555	3194	2856	2506	2141	2406	2426	2426	2473
14.0	3818	3360	2940	2618	2433	2302	2236	2205	2224	2276
16.0	3707	3170	2727	2428	2250	2128	2084	2080	2091	2130
18.0	3591	2982	2557	2264	2092	2022	1996	1996	2007	2039
20.0	3469	2812	2388	2117	1995	1942	1916	1918	1926	1957
22.0	3353	2658	2252	2006	1920	1864	1840	1843	1849	1879
24.0	3231	2520	2123	1932	1846	1793	1773	1779	1782	1808
26.0	3108	2388	2009	1860	1776	1731	1715	1723	1723	1747
28.0	2994	2270	1919	1791	1711	1676	1668	1676	1675	1694
30.0	2895	2166	1848	1722	1652	1630	1627	1635	1634	1650
32.0	2810	2073	1784	1660	1602	1592	1590	1598	1597	1613
34.0	2740	1992	1725	1607	1561	1557	1554	1558	1561	1578
36.0	2681	1922	1676	1562	1525	1524	1516	1512	1520	1544
38.0	2634	1865	1632	1523	1489	1492	1474	1470	1477	1515
40.0	2599	1818	1592	1486	1451	1458	1434	1436	1440	1486
42.0	2581	1775	1553	1449	1416	1416	1402	1411	1412	1445
44.0	2601	1748	1518	1413	1385	1375	1377	1395	1394	1417
46.0	2747	1773	1487	1380	1363	1364	1377	1412	1405	1423
48.0	3015	1949	1489	1351	1375	1408	1418	1456	1443	1460
50.0	2774	2021	1584	1347	1436	1457	1463	1498	1478	1490
52.0	2574	1746	1684	1406	1491	1480	1461	1471	1447	1483
54.0	2538	1619	1463	1521	1500	1451	1396	1391	1373	1445
56.0	2550	1545	1344	1410	1473	1418	1318	1306	1294	1397
58.0	2578	1488	1270	1253	1454	1402	1255	1229	1236	1403
60.0	2621	1442	1196	1150	1312	1264	1128	1112	1124	1272
62.0	2673	1410	1116	1049	1160	1124	999.4	994.7	999.7	1133
64.0	2753	1396	1043	961.6	1023	984.4	892.6	892.4	893.5	993.7
66.0	2783	1397	988.0	876.6	916.3	869.6	807.1	807.2	806.5	877.0
68.0	2834	1378	928.2	792.2	815.1	782.0	728.3	722.8	724.3	779.9
70.0	2884	1403	852.0	695.2	710.7	689.0	645.8	640.5	640.7	684.6
72.0	2873	1433	784.6	594.4	609.4	601.7	567.2	555.4	565.0	599.8
74.0	2507	1412	730.1	498.3	513.8	520.2	451.0	422.5	450.8	515.3

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: 52.5-MIN: 42.7%
Test Distance: 7.080m [K=1.0000]
Remarks: ANEXO 24-0270-2-A RALEID II 48 LED 140W
DRIVER ADVANCE XITANUM 180W
MOD LED 2X8 Z15 5050 4K SEOUL
LENTE: RA10

Photometric Data Table [cd]

76.0	2140	1133	686.7	416.2	421.7	392.8	326.3	298.0	324.1	390.4
78.0	1464	762.7	590.7	330.0	335.4	282.0	239.4	212.1	238.0	279.2
80.0	785.7	463.5	408.5	248.9	234.5	191.3	153.0	141.0	152.2	191.0
82.0	458.4	247.8	255.6	167.4	134.0	121.3	93.40	90.53	92.74	120.2
84.0	131.2	142.1	103.9	95.34	66.47	63.02	45.35	40.37	45.35	61.88
86.0	41.48	38.06	44.20	23.37	21.59	17.34	14.43	11.37	14.42	17.13
88.0	23.24	18.87	12.73	7.489	4.437	3.117	2.522	2.419	2.625	3.328
90.0	27.29	22.49	14.87	8.973	5.193	3.734	3.083	3.010	3.267	4.105
92.0	34.06	28.09	18.72	11.40	6.831	4.938	4.054	3.963	4.269	5.389
94.0	42.15	34.47	22.95	14.13	8.708	6.358	5.252	5.153	5.488	6.889
96.0	51.10	41.41	27.33	17.05	10.81	7.984	6.652	6.509	6.932	8.602
98.0	59.93	48.11	31.64	20.16	13.24	9.875	8.254	8.040	8.573	10.59
100.0	66.45	53.69	35.83	23.49	15.86	12.00	10.05	9.753	10.40	12.80
102.0	70.38	57.92	39.92	27.06	18.75	14.31	12.05	11.74	12.45	15.17
104.0	72.66	60.97	43.64	30.57	21.86	16.84	14.31	13.92	14.73	17.75
106.0	73.97	63.14	46.79	33.86	24.98	19.52	16.74	16.26	17.15	20.45
108.0	74.60	64.57	49.32	36.90	27.99	22.20	19.23	18.65	19.62	23.05
110.0	74.61	65.46	51.46	39.58	30.72	24.73	21.74	21.09	22.06	25.50
112.0	74.23	66.06	53.33	41.98	33.12	27.14	24.13	23.47	24.42	27.76
114.0	73.68	66.57	54.85	44.01	35.27	29.32	26.43	25.81	26.72	29.80
116.0	73.11	66.87	56.12	45.67	37.14	31.38	28.62	28.01	28.89	31.78
118.0	72.32	66.77	56.98	47.03	38.84	33.35	30.73	30.14	30.99	33.71
120.0	71.28	66.15	57.44	48.16	40.41	35.34	32.74	32.26	33.03	35.64
122.0	70.02	65.16	57.33	48.99	41.94	37.28	34.71	34.31	35.02	37.59
124.0	68.61	63.87	56.84	49.67	43.37	39.22	36.65	36.30	36.97	39.61
126.0	67.01	62.39	56.16	50.11	44.49	41.00	38.51	38.20	38.88	41.65
128.0	65.10	60.62	55.37	50.35	45.51	42.56	40.21	40.00	40.69	43.47
130.0	63.07	58.88	54.47	50.45	46.50	43.84	41.77	41.64	42.36	45.08
132.0	61.35	57.44	53.62	50.36	47.30	44.94	43.19	43.16	43.90	46.44
134.0	59.99	56.24	52.88	50.13	47.99	45.86	44.44	44.52	45.27	47.62
136.0	58.82	55.33	52.35	50.08	48.54	46.65	45.55	45.75	46.50	48.64
138.0	57.72	54.58	51.76	50.08	48.81	47.31	46.51	46.81	47.59	49.49
140.0	56.80	53.98	51.47	50.22	48.99	47.89	47.33	47.75	48.52	50.29
142.0	55.93	53.38	51.34	50.46	49.20	48.45	48.13	48.65	49.33	50.93
144.0	54.99	52.96	51.25	50.50	49.43	49.02	48.92	49.51	50.10	51.53
146.0	54.17	52.53	51.15	50.46	49.61	49.51	49.64	50.27	50.75	51.98
148.0	53.37	52.06	50.92	50.28	49.62	49.85	50.17	50.78	51.20	52.24
150.0	52.78	51.77	50.66	50.13	49.63	50.11	50.58	51.16	51.54	52.33
152.0	52.32	51.46	50.43	49.97	49.53	50.21	50.83	51.35	51.61	52.23
154.0	51.98	51.28	50.33	49.89	49.42	50.21	50.82	51.38	51.53	52.00
156.0	51.71	51.10	50.29	49.81	49.26	50.05	50.64	51.22	51.29	51.60
158.0	51.47	51.02	50.30	49.83	49.20	49.95	50.44	50.97	50.99	51.20
160.0	51.16	50.86	50.30	49.94	49.19	49.85	50.21	50.63	50.60	50.73
162.0	50.73	50.51	50.17	49.97	49.15	49.70	49.94	50.19	50.12	50.15
164.0	50.16	50.03	49.81	49.77	49.01	49.52	49.56	49.70	49.48	49.44
166.0	49.62	49.59	49.46	49.54	48.90	49.37	49.23	49.27	48.94	48.79
168.0	49.07	49.03	48.95	49.06	48.49	48.97	48.76	48.58	48.19	47.93
170.0	48.48	48.38	48.27	48.30	47.73	48.13	47.84	47.55	47.18	46.89
172.0	47.94	47.71	47.50	47.46	46.75	47.13	46.79	46.41	45.95	45.64
174.0	47.46	47.06	46.66	46.50	45.69	45.95	45.59	45.23	44.75	44.42
176.0	46.98	46.38	45.79	45.49	44.53	44.63	44.19	43.82	43.37	43.09
178.0	46.42	45.64	44.87	44.42	43.29	43.24	42.68	42.31	41.87	41.61
180.0	45.78	44.83	43.86	43.22	41.92	41.77	41.04	40.59	40.11	39.85
G/C	300.0	310.0	320.0	330.0	340.0	350.0				
0.0	4400	4400	4400	4400	4400	4400				
2.0	4193	4212	4248	4280	4322	4361				
4.0	3897	3952	4044	4130	4228	4317				
6.0	3536	3641	3801	3955	4125	4272				
8.0	3160	3312	3537	3768	4016	4230				
10.0	2834	3003	3273	3574	3904	4188				
12.0	2614	2748	3023	3378	3790	4151				
14.0	2395	2556	2811	3192	3680	4121				
16.0	2224	2392	2652	3021	3574	4098				
18.0	2102	2238	2494	2864	3467	4074				
20.0	2019	2121	2362	2729	3356	4052				
22.0	1942	2041	2230	2608	3249	4026				
24.0	1868	1969	2122	2497	3143	4000				
26.0	1799	1898	2042	2387	3035	3981				
28.0	1739	1830	1973	2280	2935	3977				
30.0	1684	1766	1905	2182	2850	3989				
32.0	1636	1710	1842	2099	2785	4011				
34.0	1596	1661	1789	2037	2733	4038				
36.0	1561	1621	1746	1992	2696	4080				
38.0	1527	1586	1713	1963	2677	4143				

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: 52.5-MIN: 42.7%
Test Distance: 7.080m [K=1.0000]
Remarks: ANEXO 24-0270-2-A RALEED II 48 LED 140W
DRIVER ADVANCE XITANIUM 180W
MOD LED 2X8 Z15 5050 4K SEOUL
LENTE: RA10

Photometric Data Table [cd]

40.0	1493	1557	1688	1943	2675	4229
42.0	1464	1531	1671	1931	2690	4352
44.0	1438	1509	1658	1935	2739	4535
46.0	1435	1495	1651	1972	2847	4858
48.0	1472	1498	1663	2076	3020	5135
50.0	1541	1526	1721	2159	2872	4803
52.0	1588	1585	1804	1907	2600	4598
54.0	1592	1642	1615	1731	2519	4540
56.0	1565	1527	1453	1632	2518	4536
58.0	1529	1325	1347	1563	2544	4561
60.0	1402	1194	1251	1507	2583	4608
62.0	1227	1089	1160	1464	2629	4680
64.0	1066	996.4	1083	1443	2721	4836
66.0	948.6	902.8	1021	1437	2764	4798
68.0	835.6	811.5	957.1	1402	2799	4742
70.0	721.9	706.0	875.1	1396	2862	4686
72.0	614.5	601.8	798.5	1394	2903	4438
74.0	518.5	509.2	739.9	1359	2632	3901
76.0	427.2	428.6	687.8	1053	2358	3068
78.0	339.0	344.0	593.5	743.9	1711	2188
80.0	237.4	263.7	410.3	470.0	996.8	1381
82.0	136.4	176.7	257.0	254.7	442.9	846.2
84.0	67.51	99.97	104.6	147.8	245.0	315.3
86.0	21.42	23.31	42.84	42.10	48.18	168.0
88.0	4.827	8.264	13.79	20.35	24.52	25.88
90.0	5.828	10.02	16.29	24.05	28.51	28.04
92.0	7.590	12.65	20.40	29.91	35.47	34.76
94.0	9.617	15.57	24.92	36.73	43.85	42.80
96.0	11.91	18.68	29.55	44.13	53.15	51.64
98.0	14.43	21.91	34.14	51.35	62.18	60.43
100.0	17.20	25.44	38.61	57.00	68.54	67.07
102.0	20.28	29.18	42.84	60.84	72.19	71.02
104.0	23.51	32.86	46.47	63.42	74.18	72.92
106.0	26.68	36.22	49.32	65.05	75.18	73.48
108.0	29.72	39.22	51.56	65.99	75.38	73.25
110.0	32.44	41.91	53.46	66.61	74.99	72.51
112.0	34.83	44.31	55.21	67.07	74.19	71.57
114.0	36.95	46.33	56.79	67.47	73.35	70.52
116.0	38.77	48.11	58.19	67.77	72.58	69.54
118.0	40.50	49.68	59.37	67.96	71.76	68.45
120.0	42.14	50.99	60.25	68.03	70.91	67.25
122.0	43.72	52.18	60.94	67.98	69.96	65.95
124.0	45.26	53.28	61.39	67.62	68.90	64.61
126.0	46.71	54.30	61.61	66.99	67.65	63.10
128.0	47.90	55.15	61.81	66.19	65.99	60.96
130.0	49.16	55.85	61.98	65.38	64.16	58.62
132.0	50.33	56.38	61.86	64.46	62.46	56.59
134.0	51.36	56.61	61.49	63.31	60.78	54.81
136.0	52.30	56.87	60.97	62.09	59.16	53.25
138.0	53.02	57.01	60.30	60.81	57.55	51.78
140.0	53.44	57.04	59.53	59.56	56.13	50.46
142.0	53.73	57.03	58.84	58.28	54.90	49.39
144.0	53.93	56.94	58.17	57.16	53.75	48.47
146.0	53.94	56.51	57.47	56.16	52.74	47.59
148.0	53.81	55.94	56.73	55.18	51.86	46.90
150.0	53.56	55.31	55.80	54.29	51.13	46.46
152.0	53.14	54.55	54.79	53.37	50.45	46.18
154.0	52.59	53.70	53.74	52.41	49.84	46.09
156.0	51.99	52.71	52.64	51.40	49.16	45.92
158.0	51.39	51.77	51.59	50.54	48.60	45.86
160.0	50.75	50.93	50.59	49.73	48.11	45.78
162.0	50.03	50.03	49.60	48.94	47.58	45.53
164.0	49.19	49.10	48.65	48.00	46.82	45.11
166.0	48.44	48.26	47.74	47.05	46.13	44.77
168.0	47.55	47.34	46.77	46.11	45.40	44.36
170.0	46.55	46.30	45.68	45.02	44.54	43.82
172.0	45.34	45.11	44.52	43.95	43.61	43.25
174.0	44.06	43.84	43.30	42.96	42.76	42.76
176.0	42.73	42.55	42.09	41.95	41.93	42.22
178.0	41.28	41.22	40.94	41.03	41.14	41.68
180.0	39.56	39.64	39.65	40.05	40.29	40.99

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: 52.5-MIN: 42.7%
Test Distance: 7.080m [K=1.0000]
Remarks: ANEXO 24-0270-2-A RALED II 48 LED 140W
DRIVER ADVANCE XITANIUM 180W
MOD LED 2X8 Z15 5050 4K SEOUL
LENTE: RA10