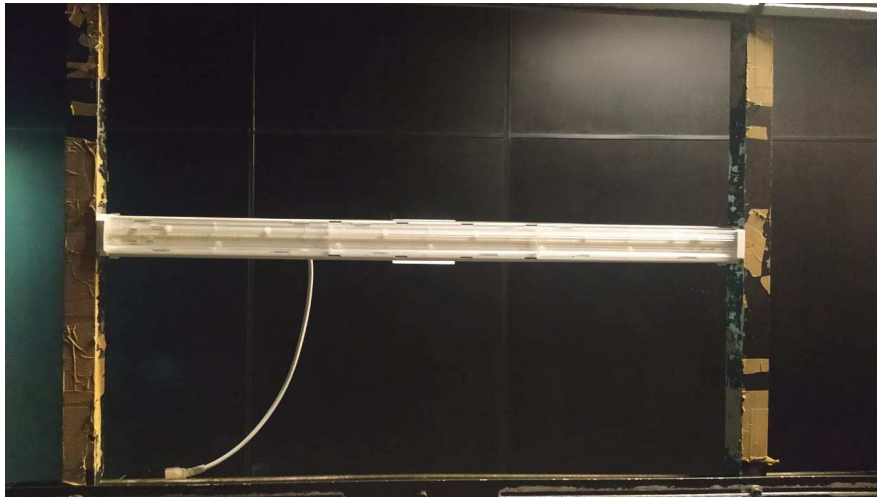


07929 - LUMINARIA AKIRA - 90 DEG - 5000K - 10K5lm - 70W - 15_07_2022

Laboratório de Fotometria
Intral S/A Indústria de Materiais Elétricos
Travessa Rio Grande, 130
95098-750 - Caxias do Sul - RS
intra1@intra1.com.br
www.intra1.com.br



Light Output Ratio:	100.0%	
Luminaire Power:	73.48 W	
SHR Nominal:	1.25	Calculated using the TM5
SHR Maximum:	1.35	fine grid method.

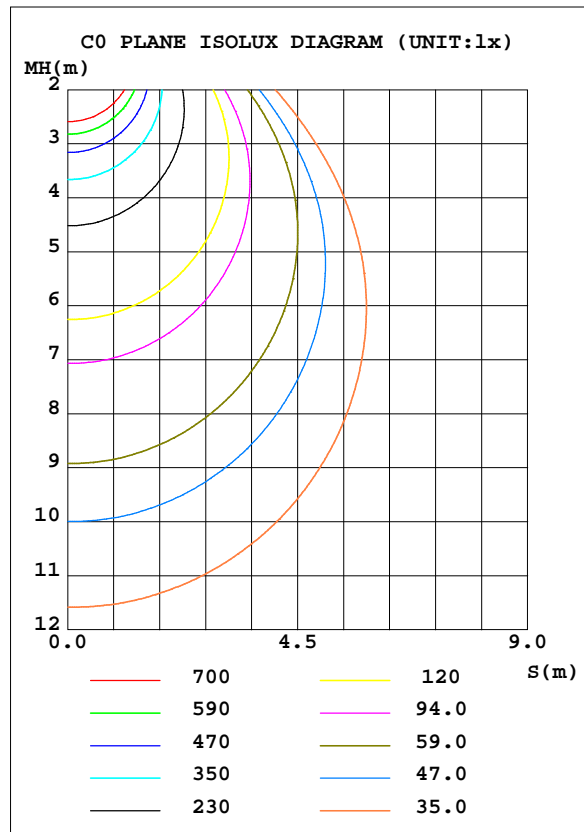
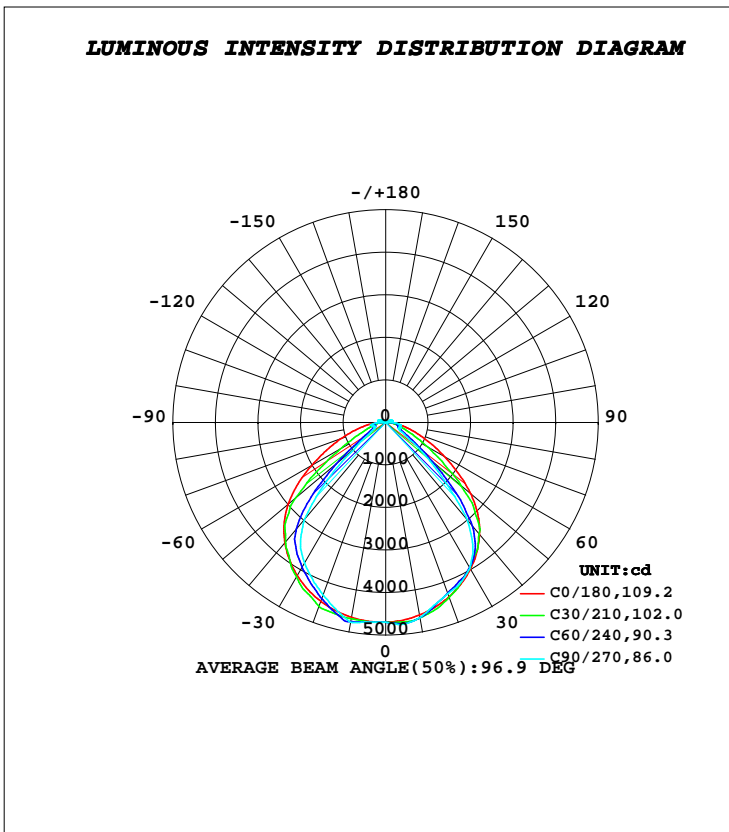
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gabriel Franca
Test Date:15 July 2022

V(B) Range:-120 - 120DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:14.500m [K=1.0000]
Remarks: 07929 - LUMINARIA AKIRA - 90 DEG - 5000K

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:221.06V I:0.3371A P:73.482W PF:0.9860 Freq:59.97Hz Lamp Flux:10740.3x1 lm		
NAME: AKIRA	TYPE:AKIRA	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Laboratorio de Fotometria	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 146.16 lm/W			
MODEL	AKIRA	I _{max} (cd)	4776	S/MH(C0/180)	1.26
NOMINAL POWER(W)	70	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	10740	η UP, DN(C0-180)	1.0,48.7
NOMINAL FLUX(lm)	10740.3	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.8,49.5
LAMPS INSIDE	1	η up(%)	1.8	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down(%)	98.2	CIBSE SHR MAX	1.35



H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Gabriel Franca
 Test Date:15 July 2022

V(B) Range:-120 - 120DEG
 V(B) Interval: 2.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:14.500m [K=1.0000]
 Remarks: 07929 - LUMINARIA AKIRA - 90 DEG - 5000K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	4649	4722	4772	4666	4594	4665	4659	4719	0- 10	449.0	449.0	4.18,4.18
20	4472	4500	4313	4400	4360	4295	4283	4395	10- 20	1285	1734	16.1,16.1
30	4157	4044	3819	3897	3983	3923	3955	4066	20- 30	1939	3673	34.2,34.2
40	3688	3517	2981	3343	3436	3364	2985	3571	30- 40	2323	5997	55.8,55.8
50	2994	2020	960.8	1770	2611	1867	1231	2083	40- 50	2080	8077	75.2,75.2
60	1997	684.5	336.5	637.9	1586	719.6	395.1	770.7	50- 60	1227	9303	86.6,86.6
70	1119	327.7	277.9	322.4	822.1	359.2	366.9	365.1	60- 70	651.8	9955	92.7,92.7
80	514.8	248.3	366.6	227.2	317.4	240.3	370.2	263.2	70- 80	397.8	10353	96.4,96.4
90	0	0.9897	0.6712	1.266	0.8379	45.55	58.87	20.95	80- 90	196.9	10550	98.2,98.2
100	0	116.3	185.4	101.9	0	90.49	155.9	102.9	90-100	50.83	10601	98.7,98.7
110	0	85.06	165.3	76.05	0	71.86	149.7	84.11	100-110	91.46	10692	99.6,99.6
120	0	0	106.3	0	0	0	99.63	0	110-120	46.76	10739	100,100
130	0	0	0	0	0	0	0	0	120-130	1.314	10740	100,100
140	0	0	0	0	0	0	0	0	130-140	0	10740	100,100
150	0	0	0	0	0	0	0	0	140-150	0	10740	100,100
160	0	0	0	0	0	0	0	0	150-160	0	10740	100,100
170	0	0	0	0	0	0	0	0	160-170	0	10740	100,100
180	0	0	0	0	0	0	0	0	170-180	0	10740	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 7126 lm

%lum = 66.3%

%lamp = 66.3%

Conical surface Flux(120deg): 9303.3 lm

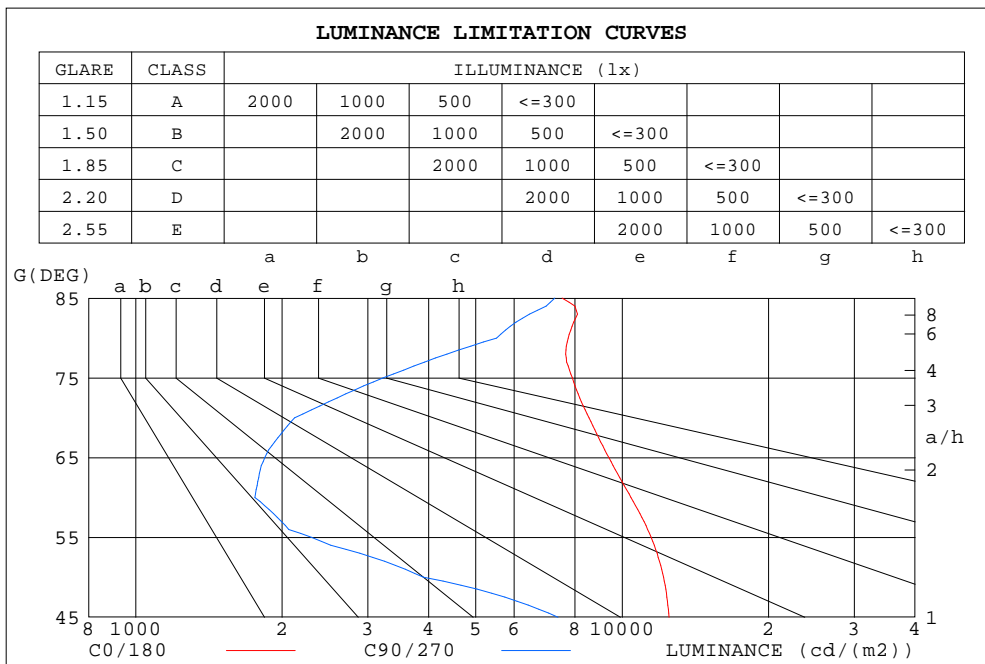
%lum = 86.6%

%lamp = 86.6%

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gabriel Franca
Test Date:15 July 2022

V(B) Range:-120 - 120DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:14.500m [K=1.0000]
Remarks: 07929 - LUMINARIA AKIRA - 90 DEG - 5000K

LUMINANCE LIMITATION CURVES

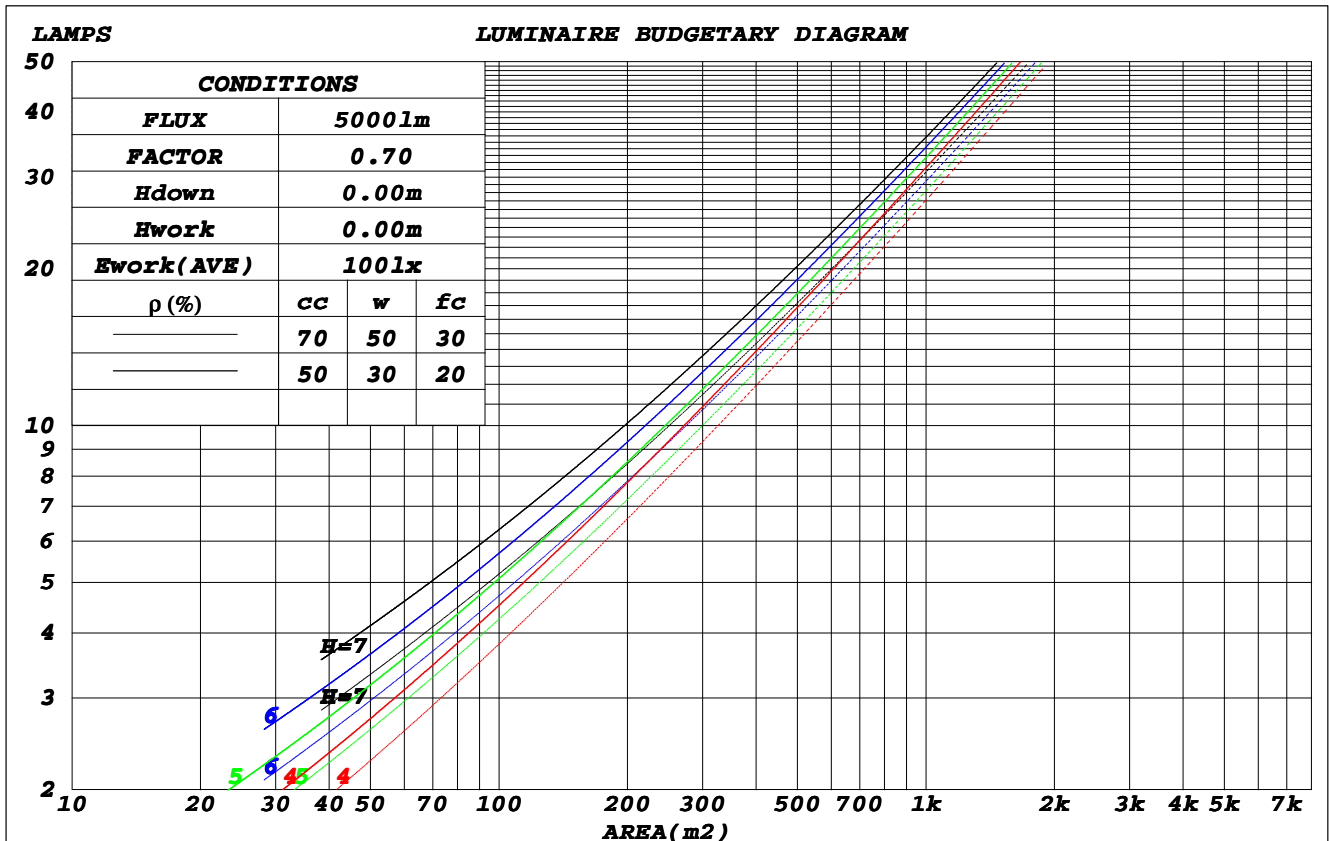


H(β) Range: -90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Gabriel Franca
Test Date: 15 July 2022

V(B) Range: -120 - 120DEG
V(B) Interval: 2.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity: 65.0%
Test Distance: 14.500m [K=1.0000]
Remarks: 07929 - LUMINARIA AKIRA - 90 DEG - 5000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	.98
1.0	1.06	1.02	.98	1.03	.90	.97	.99	.96	.93	.94	.92	.90	.91	.89	.87	.85
2.0	.94	.88	.83	.92	.86	.82	.88	.84	.80	.85	.81	.78	.82	.78	.76	.74
3.0	.84	.77	.71	.82	.76	.70	.79	.73	.69	.76	.71	.67	.74	.70	.66	.64
4.0	.75	.68	.62	.74	.67	.61	.71	.65	.60	.69	.64	.59	.67	.62	.58	.56
5.0	.68	.60	.54	.67	.59	.54	.65	.58	.53	.63	.57	.52	.61	.56	.52	.50
6.0	.62	.54	.48	.61	.53	.48	.59	.52	.47	.57	.51	.47	.56	.50	.46	.44
7.0	.57	.48	.43	.56	.48	.43	.54	.47	.42	.53	.46	.42	.51	.46	.41	.39
8.0	.52	.44	.39	.51	.44	.38	.50	.43	.38	.48	.42	.38	.47	.42	.37	.36
9.0	.48	.40	.35	.47	.40	.35	.46	.39	.35	.45	.39	.34	.44	.38	.34	.32
10.0	.44	.37	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.41	.35	.31	.29



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gabriel Franca
Test Date:15 July 2022

V(B) Range:-120 - 120DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:14.500m [K=1.0000]
Remarks: 07929 - LUMINARIA AKIRA - 90 DEG - 5000K

WEC AND CCEC

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.270	.154	.049	.263	.150	.048	.249	.143	.046	.236	.136	.044	.224	.130	.042	
2.0	.254	.139	.043	.248	.137	.042	.236	.131	.041	.224	.126	.039	.214	.121	.038	
3.0	.238	.127	.038	.232	.124	.037	.221	.120	.036	.211	.116	.036	.202	.112	.035	
4.0	.222	.115	.034	.217	.114	.034	.207	.110	.033	.198	.107	.032	.190	.103	.031	
5.0	.208	.106	.031	.203	.104	.030	.195	.101	.030	.187	.098	.029	.179	.096	.029	
6.0	.195	.098	.028	.191	.096	.028	.183	.094	.027	.176	.091	.027	.169	.089	.026	
7.0	.183	.090	.026	.179	.089	.025	.172	.087	.025	.166	.085	.025	.160	.083	.024	
8.0	.172	.084	.024	.169	.083	.023	.163	.081	.023	.157	.079	.023	.151	.078	.023	
9.0	.162	.079	.022	.159	.078	.022	.154	.076	.022	.149	.075	.021	.144	.073	.021	
10.0	.154	.074	.020	.151	.073	.020	.146	.071	.020	.141	.070	.020	.137	.069	.020	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.204	.204	.204	.174	.174	.174	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.191	.170	.151	.164	.146	.130	.112	.100	.090	.064	.058	.052	.021	.019	.017	
2.0	.181	.146	.116	.155	.126	.100	.106	.087	.070	.061	.051	.041	.020	.016	.013	
3.0	.172	.128	.093	.148	.110	.080	.101	.077	.056	.058	.045	.033	.019	.015	.011	
4.0	.164	.114	.076	.141	.099	.066	.097	.069	.047	.056	.040	.028	.018	.013	.009	
5.0	.157	.104	.064	.134	.090	.056	.093	.063	.040	.054	.037	.023	.017	.012	.008	
6.0	.150	.095	.056	.129	.082	.049	.089	.058	.034	.052	.034	.020	.017	.011	.007	
7.0	.143	.088	.049	.123	.076	.043	.085	.054	.030	.049	.032	.018	.016	.010	.006	
8.0	.137	.082	.044	.118	.071	.039	.082	.050	.027	.048	.030	.016	.015	.010	.005	
9.0	.132	.077	.041	.113	.067	.035	.079	.047	.025	.046	.028	.015	.015	.009	.005	
10.0	.127	.073	.038	.109	.063	.033	.076	.045	.023	.044	.026	.014	.014	.009	.005	

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gabriel Franca
Test Date:15 July 2022

V(B) Range:-120 - 120DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:14.500m [K=1.0000]
Remarks: 07929 - LUMINARIA AKIRA - 90 DEG - 5000K

UGR(Unified Glare Rating) Table

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	Viewed crosswise					Viewed endwise					
x = 2H y = 2H	13.1	14.5	13.4	14.7	14.9	8.1	9.4	8.3	9.6	9.9	
3H	14.2	15.5	14.6	15.7	16.0	8.3	9.5	8.6	9.8	10.1	
4H	14.7	15.9	15.0	16.2	16.4	8.8	9.9	9.1	10.2	10.5	
6H	15.1	16.2	15.5	16.5	16.8	9.8	10.9	10.1	11.2	11.5	
8H	15.3	16.3	15.6	16.6	17.0	10.4	11.5	10.8	11.8	12.1	
12H	15.4	16.4	15.8	16.8	17.1	11.0	12.0	11.4	12.4	12.7	
4H	2H	13.0	14.1	13.3	14.4	14.7	8.4	9.6	8.8	9.9	10.2
	3H	14.1	15.2	14.5	15.5	15.8	8.8	9.8	9.2	10.2	10.5
	4H	14.7	15.6	15.1	16.0	16.3	9.5	10.4	9.8	10.7	11.1
	6H	15.2	16.0	15.6	16.4	16.8	10.8	11.6	11.2	12.0	12.4
	8H	15.5	16.2	15.9	16.6	17.0	11.6	12.4	12.1	12.8	13.2
	12H	15.7	16.4	16.1	16.8	17.2	12.4	13.1	12.8	13.5	13.9
8H	4H	14.6	15.4	15.1	15.8	16.2	9.7	10.5	10.2	10.9	11.3
	6H	15.2	15.9	15.7	16.3	16.7	11.4	12.0	11.9	12.4	12.9
	8H	15.5	16.1	16.0	16.5	17.0	12.4	13.0	12.9	13.4	13.9
	12H	15.8	16.3	16.3	16.8	17.3	13.4	13.9	13.9	14.3	14.9
12H	4H	14.6	15.3	15.1	15.7	16.2	9.8	10.5	10.2	10.9	11.3
	6H	15.2	15.8	15.7	16.3	16.7	11.5	12.1	12.0	12.5	13.0
	8H	15.6	16.1	16.1	16.5	17.0	12.6	13.1	13.1	13.6	14.1
Variations with the observer position at spacings:											
S = 1.0H	+ 0.4 / - 0.5					+ 0.7 / - 0.8					
1.5H	+ 0.5 / - 0.5					+ 0.5 / - 0.8					
2.0H	+ 1.2 / - 1.9					+ 1.1 / - 0.6					

CIE Pub.117, 10740 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 8.2$)

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gabriel Franca
Test Date:15 July 2022

V(B) Range:-120 - 120DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:14.500m [K=1.0000]
Remarks: 07929 - LUMINARIA AKIRA - 90 DEG - 5000K

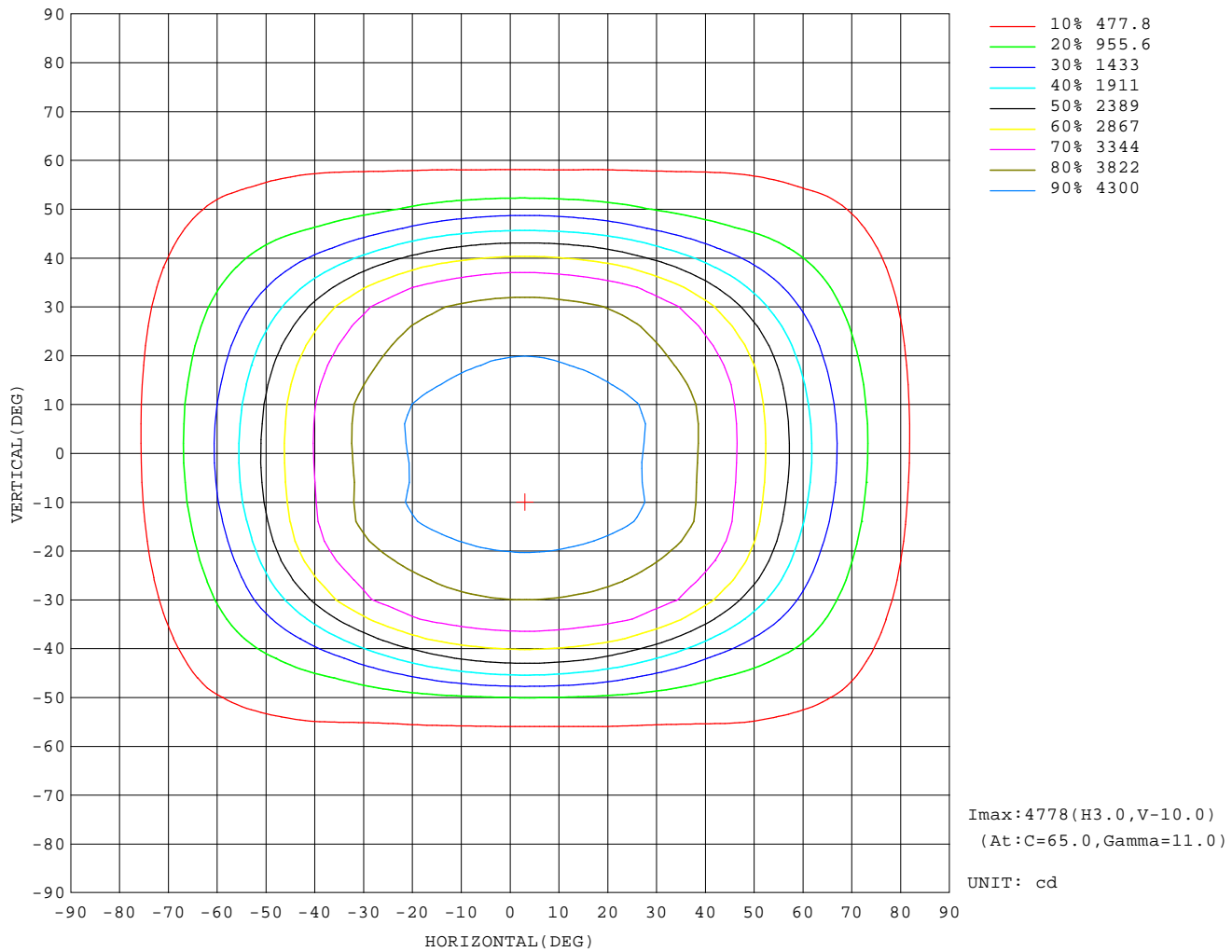
UTILIZATION FACTORS TABLE

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	64	53	47	63	53	47	62	53	47	41
0.80	74	64	57	73	63	57	71	62	56	50
1.00	82	72	66	81	72	66	79	72	65	59
1.25	88	79	73	87	79	73	84	77	72	65
1.50	93	84	78	91	83	78	88	82	77	70
2.00	99	91	86	97	90	85	93	88	83	76
2.50	102	95	90	100	94	89	96	91	87	79
3.00	104	99	94	102	97	93	98	94	90	82
4.00	108	103	99	105	101	97	101	97	94	85
5.00	110	105	102	107	103	100	103	100	97	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gabriel Franca
Test Date:15 July 2022

V(B) Range:-120 - 120DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:14.500m [K=1.0000]
Remarks: 07929 - LUMINARIA AKIRA - 90 DEG - 5000K

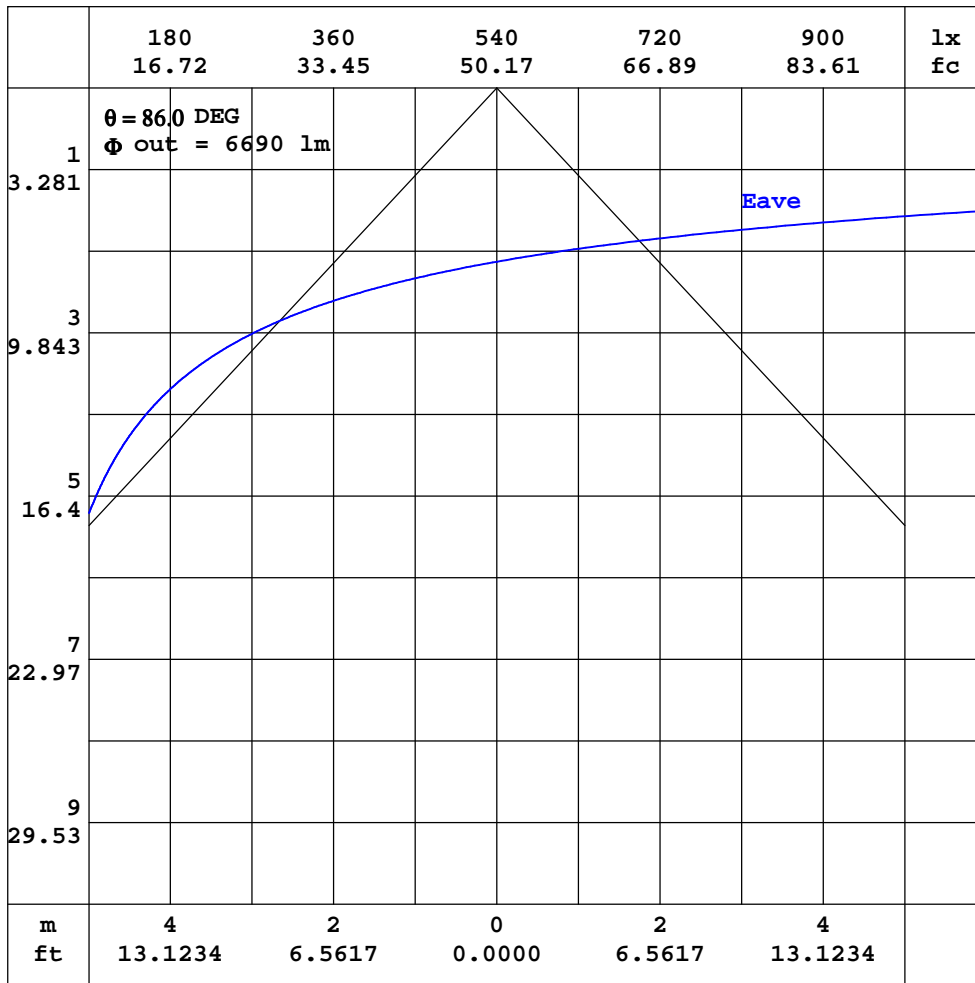
ISOCANDELA DIAGRAM



H(β) Range: -90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Gabriel Franca
Test Date: 15 July 2022

V(B) Range: -120 - 120DEG
V(B) Interval: 2.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity: 65.0%
Test Distance: 14.500m [K=1.0000]
Remarks: 07929 - LUMINARIA AKIRA - 90 DEG - 5000K

AAI CURVES

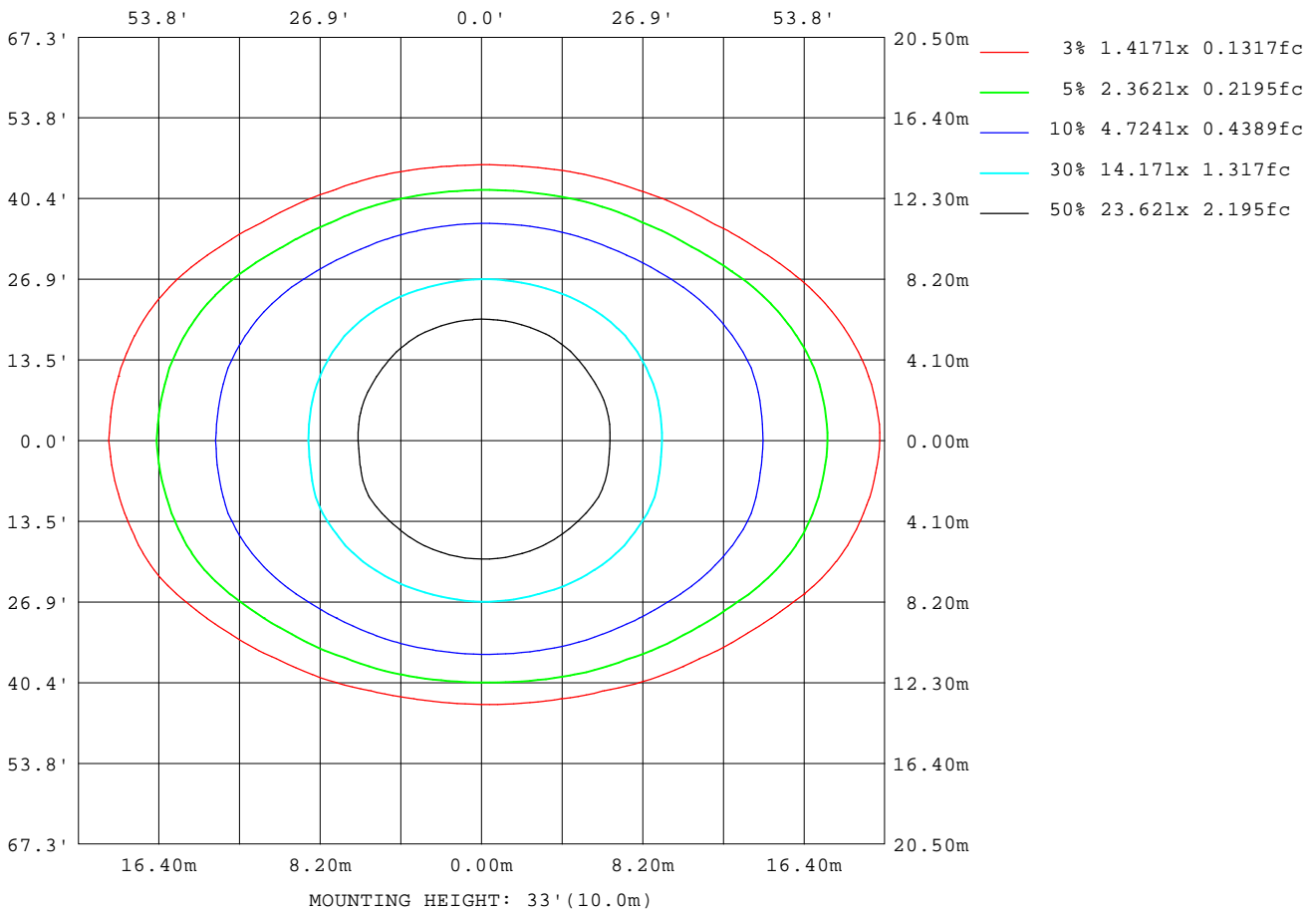


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range: -90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Gabriel Franca
Test Date: 15 July 2022

V(B) Range: -120 - 120DEG
V(B) Interval: 2.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity: 65.0%
Test Distance: 14.500m [K=1.0000]
Remarks: 07929 - LUMINARIA AKIRA - 90 DEG - 5000K

ISOLUX DIAGRAM



H(β) Range: -90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Gabriel Franca
Test Date: 15 July 2022

V(B) Range: -120 - 120DEG
V(B) Interval: 2.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity: 65.0%
Test Distance: 14.500m [K=1.0000]
Remarks: 07929 - LUMINARIA AKIRA - 90 DEG - 5000K

LED Avg.L Report

Test:U:221.06V I:0.3371A P:73.482W PF:0.9860 Freq:59.97Hz Lamp Flux:10740.3x1 Lm		
NAME: AKIRA	TYPE:AKIRA	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Laboratorio de Fotometria	SUR.:	Shielding Angle:

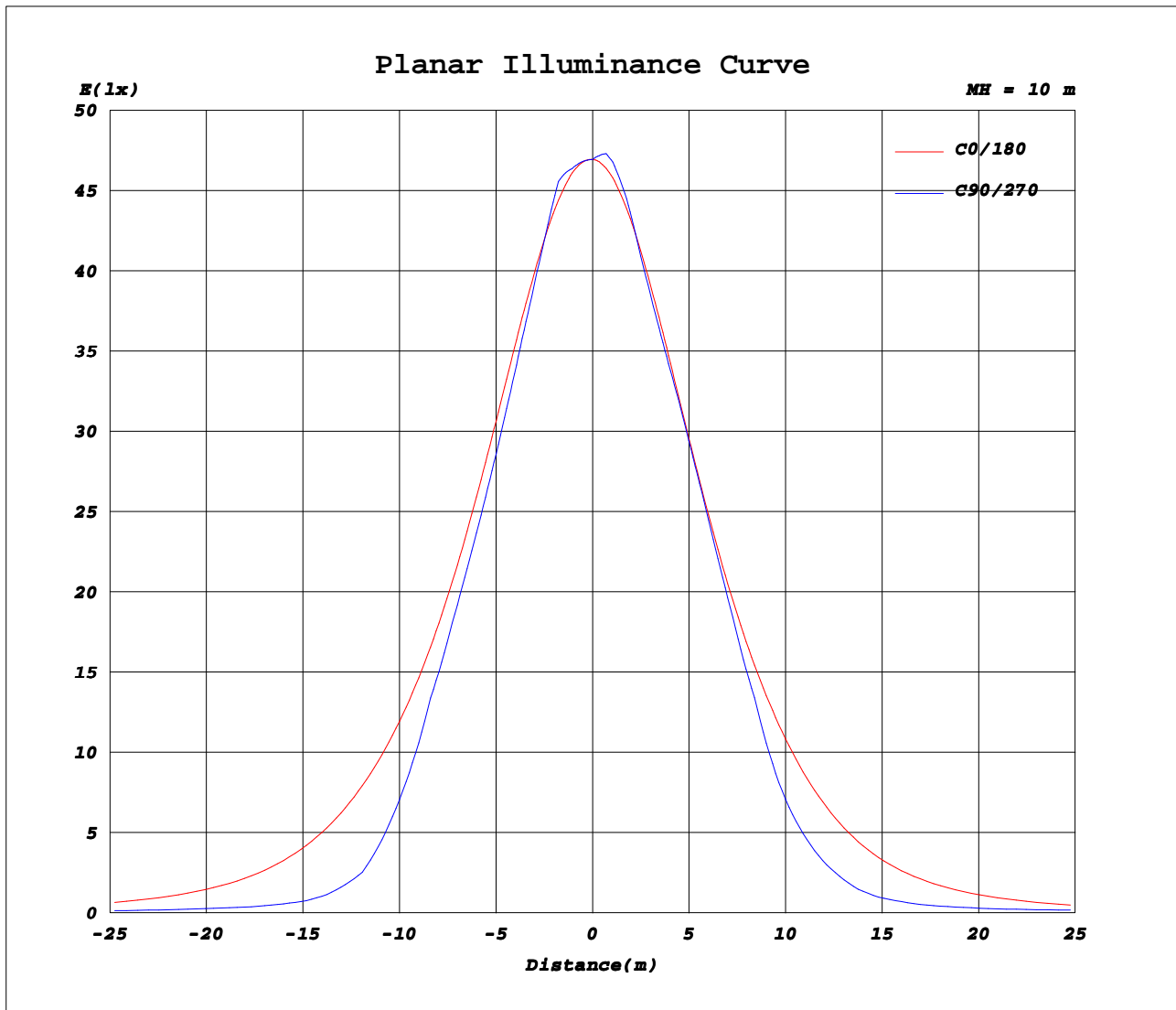
AvgL	cd/m2
L_0~180(65)av	8309
L_0~180(75)av	6727
L_0~180(85)av	3884
L_90~270(65)av	1954
L_90~270(75)av	3329
L_90~270(85)av	7380
L_45(65)av	2877
L_45(75)av	2826
L_45(85)av	5681

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gabriel Franca
Test Date:15 July 2022

V(B) Range:-120 - 120DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:14.500m [K=1.0000]
Remarks: 07929 - LUMINARIA AKIRA - 90 DEG - 5000K

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gabriel Franca
Test Date:15 July 2022

V(B) Range:-120 - 120DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:14.500m [K=1.0000]
Remarks: 07929 - LUMINARIA AKIRA - 90 DEG - 5000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694
5	4692	4693	4695	4697	4699	4701	4702	4703	4704	4706	4707	4709	4711	4713	4714	4714	4713	4712	4710
10	4649	4656	4664	4666	4667	4672	4687	4701	4712	4722	4732	4744	4755	4763	4769	4773	4775	4774	4772
15	4577	4591	4596	4592	4618	4639	4653	4680	4713	4694	4663	4640	4622	4605	4589	4573	4561	4551	4545
20	4472	4496	4486	4514	4534	4565	4597	4550	4528	4500	4459	4428	4404	4381	4360	4342	4331	4321	4313
25	4333	4361	4355	4388	4425	4428	4407	4373	4322	4281	4228	4199	4174	4145	4121	4106	4093	4081	4073
30	4157	4178	4204	4215	4244	4254	4195	4152	4080	4044	3988	3961	3930	3896	3873	3855	3841	3827	3819
35	3945	3953	3984	4038	4046	4001	3940	3895	3820	3796	3745	3720	3664	3620	3590	3564	3530	3507	3494
40	3688	3690	3713	3745	3753	3710	3662	3615	3560	3517	3432	3371	3264	3166	3095	3043	3014	2994	2981
45	3378	3409	3457	3481	3453	3398	3333	3299	3106	2960	2794	2616	2482	2357	2227	2132	2071	2026	1997
50	2994	3070	3014	3067	3053	2917	2760	2553	2300	2020	1860	1647	1524	1383	1250	1138	1049	988	961
55	2519	2549	2599	2469	2424	2158	1899	1634	1425	1209	1044	884	774	695	623	560	530	511	504
60	1997	1993	1941	1806	1688	1425	1195	987	822	685	584	498	437	408	383	362	346	339	337
65	1519	1533	1397	1294	1106	927	746	614	513	436	384	345	328	318	311	305	300	298	298
70	1119	1117	1011	859	710	574	479	409	356	328	306	291	285	282	282	281	278	278	278
75	782	778	646	528	439	373	324	294	279	272	271	274	281	291	301	312	317	321	320
80	515	485	378	311	272	244	231	230	237	248	267	287	304	323	339	353	362	366	367
85	251	242	184	157	149	156	162	176	190	203	217	228	236	240	243	245	245	244	243
90	0.00	2.38	1.99	1.75	1.54	1.35	1.20	1.10	1.06	0.99	0.93	0.86	0.79	0.78	0.75	0.70	0.68	0.64	0.67
95	0.00	0.00	12.9	22.2	32.0	44.7	54.6	62.7	68.5	71.5	73.3	73.9	75.1	77.0	79.0	81.2	83.6	85.3	86.3
100	0.00	0.00	0.00	0.00	35.1	48.6	66.0	82.4	101	116	133	148	160	170	177	182	185	186	185
105	0.00	0.00	0.00	0.00	0.00	0.00	57.3	71.8	87.8	106	123	139	155	170	182	188	192	192	192
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.9	85.1	98.7	114	127	139	151	159	163	165	165
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.7	89.6	101	111	119	126	130	132	132
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.1	59.1	85.7	101	106
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gabriel Franca
Test Date:15 July 2022

V(B) Range:-120 - 120DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:14.500m [K=1.0000]
Remarks: 07929 - LUMINARIA AKIRA - 90 DEG - 5000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2

UNIT: cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694
5	4708	4705	4703	4700	4697	4694	4691	4687	4683	4678	4674	4669	4664	4662	4662	4663	4664	4665	4670
10	4766	4759	4751	4741	4730	4718	4705	4688	4666	4643	4624	4618	4612	4602	4589	4582	4587	4594	4599
15	4541	4541	4545	4550	4558	4570	4586	4599	4606	4605	4586	4562	4521	4503	4502	4481	4478	4494	4495
20	4309	4310	4312	4317	4322	4337	4363	4387	4400	4423	4449	4443	4429	4391	4354	4355	4329	4360	4350
25	4067	4067	4070	4075	4078	4084	4114	4146	4165	4216	4242	4256	4260	4237	4195	4178	4153	4190	4175
30	3814	3814	3817	3827	3837	3839	3853	3885	3897	3956	3981	4057	4041	4036	4011	3947	3951	3983	3971
35	3491	3500	3517	3533	3559	3585	3617	3644	3633	3676	3688	3756	3807	3784	3736	3714	3712	3735	3732
40	2970	2962	2964	2977	3034	3147	3194	3261	3343	3392	3373	3422	3485	3523	3482	3439	3421	3436	3437
45	1989	2005	2045	2093	2156	2275	2385	2494	2664	2797	2911	2977	3056	3093	3060	3009	3020	3070	3028
50	968	1011	1082	1174	1259	1332	1471	1587	1770	1922	2092	2281	2413	2482	2555	2598	2506	2611	2504
55	508	522	547	600	660	716	800	931	1048	1196	1375	1573	1725	1801	1975	1933	2019	2085	2019
60	339	347	362	380	402	430	482	558	638	757	873	1019	1194	1292	1412	1459	1526	1586	1542
65	299	301	304	308	314	327	345	384	430	489	566	659	764	904	973	1056	1081	1170	1110
70	278	278	279	278	278	282	290	303	322	347	387	437	507	589	659	694	744	822	777
75	315	308	298	285	275	268	264	259	259	266	280	303	337	383	426	462	483	550	513
80	361	351	337	319	300	279	258	241	227	214	210	211	221	233	261	287	279	317	295
85	241	238	234	228	222	215	205	189	173	158	146	139	125	123	122	124	58.6	8.24	55.5
90	0.73	0.79	0.87	0.94	0.98	1.05	1.13	1.20	1.27	1.28	1.31	1.35	1.42	1.49	1.58	1.58	0.95	0.84	0.28
95	85.5	84.4	83.1	81.7	79.6	77.4	74.8	70.4	65.4	58.4	52.5	46.9	31.9	23.1	13.6	6.51	0.00	0.00	0.00
100	184	181	176	169	158	144	130	116	102	82.6	66.9	51.4	38.2	25.2	0.00	0.00	0.00	0.00	0.00
105	191	186	179	168	155	141	126	108	92.1	76.8	61.1	46.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	163	158	151	141	130	116	101	89.1	76.1	64.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	131	127	120	113	103	93.2	83.6	26.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	100	83.8	57.1	21.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gabriel Franca
Test Date:15 July 2022

V(B) Range:-120 - 120DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:14.500m [K=1.0000]
Remarks: 07929 - LUMINARIA AKIRA - 90 DEG - 5000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--3

UNIT: cd

C(DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694
5	4676	4682	4688	4696	4706	4717	4727	4736	4745	4751	4751	4752	4753	4755	4756	4758	4760	4762	4764
10	4607	4627	4652	4668	4666	4665	4664	4665	4666	4664	4660	4656	4654	4653	4654	4655	4659	4665	4669
15	4516	4555	4546	4544	4549	4539	4525	4511	4498	4481	4462	4448	4441	4440	4440	4440	4444	4450	4458
20	4397	4393	4400	4398	4375	4362	4323	4295	4290	4279	4269	4265	4269	4275	4278	4279	4283	4288	4294
25	4215	4213	4217	4202	4166	4140	4127	4104	4114	4111	4109	4126	4141	4150	4153	4157	4163	4169	4175
30	3974	4013	4000	3956	3961	3924	3937	3923	3953	3941	3941	3946	3944	3941	3942	3947	3955	3963	3973
35	3731	3732	3725	3733	3720	3698	3736	3709	3719	3694	3666	3639	3609	3592	3575	3571	3575	3587	3610
40	3451	3462	3467	3451	3421	3402	3417	3364	3299	3227	3180	3071	3009	2987	2978	2979	2985	3000	3024
45	3014	3040	3053	3024	2969	2915	2828	2714	2553	2444	2332	2207	2129	2061	2020	2002	2006	2029	2070
50	2593	2542	2465	2415	2319	2158	2010	1867	1679	1564	1435	1384	1331	1276	1241	1226	1231	1251	1283
55	1945	1996	1833	1774	1650	1479	1297	1143	1036	925	862	815	755	698	670	653	649	657	678
60	1498	1464	1342	1262	1110	960	836	720	652	581	526	489	459	434	412	399	395	398	410
65	1110	1034	965	833	728	624	550	494	443	396	373	355	345	340	336	334	334	334	334
70	751	721	648	559	482	428	386	359	337	323	320	325	336	348	357	364	367	367	361
75	514	479	426	371	332	306	291	284	287	295	299	304	311	322	331	336	340	341	339
80	322	298	263	241	227	225	228	240	254	270	289	308	326	344	358	366	370	369	365
85	137	137	134	132	143	151	163	179	195	210	221	229	237	243	247	249	250	250	250
90	2.49	7.84	15.7	24.1	30.8	38.0	42.1	45.5	48.4	51.3	53.1	54.8	56.7	58.5	59.4	58.9	58.9	57.0	54.2
95	5.46	12.2	20.7	26.3	38.8	38.8	36.4	33.4	29.6	24.5	23.2	23.1	23.0	22.7	22.3	22.1	22.0	22.0	22.2
100	0.00	0.00	23.8	35.4	48.9	62.7	75.6	90.5	101	111	122	131	140	146	150	154	156	157	156
105	0.00	0.00	0.00	0.00	43.5	57.4	71.7	85.2	98.8	114	125	135	144	151	156	159	161	162	163
110	0.00	0.00	0.00	0.00	0.00	0.00	60.5	71.9	84.0	95.6	108	119	128	136	142	148	150	150	149
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.5	79.3	87.9	96.8	105	113	118	122	126	127	125
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.6	53.1	78.2	92.8	99.6	82.1
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gabriel Franca
Test Date:15 July 2022

V(B) Range:-120 - 120DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:14.500m [K=1.0000]
Remarks: 07929 - LUMINARIA AKIRA - 90 DEG - 5000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694	4694				
5	4765	4766	4767	4767	4768	4765	4759	4753	4747	4740	4733	4725	4717	4709	4700				
10	4673	4679	4686	4694	4700	4708	4719	4732	4740	4733	4727	4716	4704	4689	4669				
15	4468	4481	4496	4513	4531	4556	4589	4619	4625	4635	4659	4659	4644	4631	4609				
20	4301	4311	4322	4333	4343	4361	4395	4426	4458	4514	4522	4537	4549	4524	4516				
25	4178	4181	4186	4194	4192	4196	4224	4236	4270	4309	4353	4385	4396	4387	4381				
30	3981	3989	4006	4032	4047	4048	4066	4058	4092	4100	4159	4189	4202	4229	4199				
35	3646	3676	3709	3761	3825	3832	3876	3874	3901	3897	3921	3974	4016	3998	3973				
40	3062	3125	3202	3299	3411	3479	3571	3602	3661	3670	3673	3693	3719	3722	3708				
45	2129	2239	2378	2514	2651	2826	2987	3124	3304	3345	3385	3422	3456	3466	3422				
50	1332	1398	1488	1599	1714	1923	2083	2349	2584	2770	2906	3028	3057	3025	3083				
55	713	780	851	928	1017	1140	1289	1501	1709	1944	2176	2414	2468	2611	2564				
60	432	462	495	532	600	679	771	895	1062	1273	1473	1704	1822	1961	2009				
65	339	348	358	372	394	443	501	578	671	811	995	1148	1323	1428	1553				
70	358	348	336	328	326	340	365	397	452	523	624	763	902	1049	1143				
75	336	330	323	317	312	309	305	307	322	354	404	478	572	688	809				
80	356	342	326	311	296	280	263	254	247	249	265	298	346	419	521				
85	248	244	239	232	225	214	202	191	178	165	162	159	173	206	264				
90	50.0	45.3	40.4	36.0	31.0	26.0	21.0	16.3	11.2	6.17	2.83	0.69	0.23	0.21	0.24				
95	22.3	22.7	23.3	23.9	26.1	32.2	37.9	42.7	46.0	46.8	39.0	28.6	19.9	11.6	0.00				
100	152	148	142	135	126	115	103	91.8	77.1	63.7	48.1	34.9	0.00	0.00	0.00				
105	161	156	148	138	126	114	101	85.3	71.4	57.7	0.00	0.00	0.00	0.00	0.00				
110	146	139	130	120	109	96.2	84.1	71.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
115	121	115	108	98.5	87.7	27.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
120	56.8	21.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Gabriel Franca
Test Date:15 July 2022

V(B) Range:-120 - 120DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:14.500m [K=1.0000]
Remarks: 07929 - LUMINARIA AKIRA - 90 DEG - 5000K