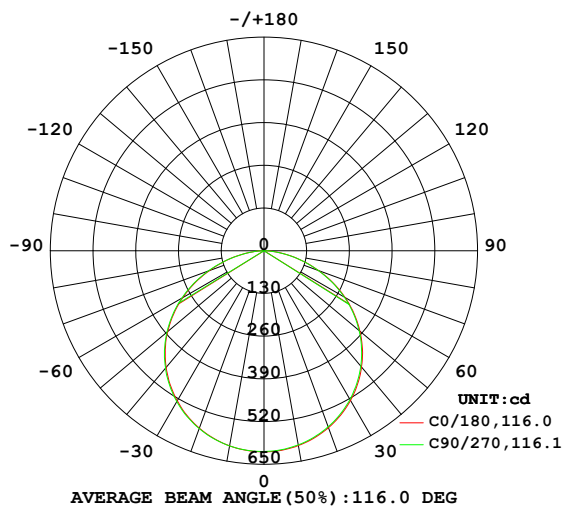


## LUMINAIRE PHOTOMETRIC TEST REPORT

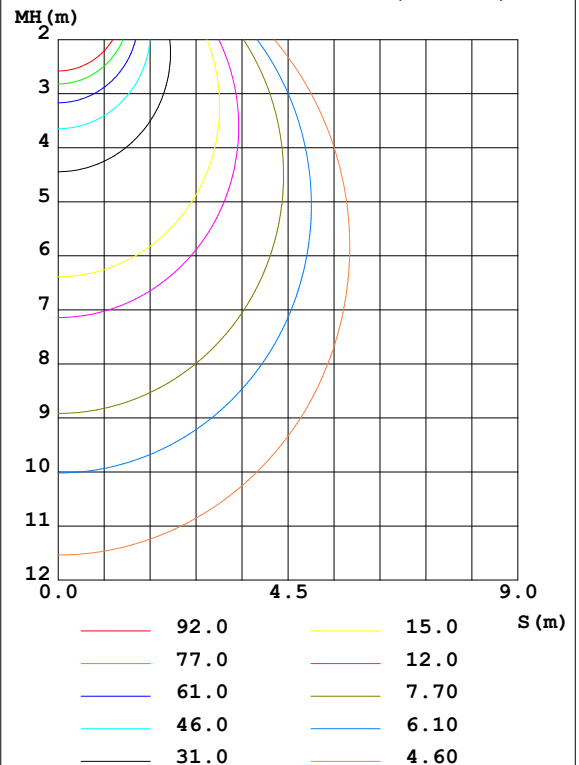
Test:U:24.001V I:0.6246A P:14.991W PF:1.0000 Freq:0Hz Lamp Flux:1823.16x1 lm		
NAME: SAX12306275	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.01*1	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 121.62 lm/W			
MODEL		I <sub>max</sub> (cd)	612.0	S/MH (C0/180)	1.28
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.29
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1823.2	η UP, DN (C0-180)	0.3, 49.5
NOMINAL FLUX (lm)	1823.16	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.3, 49.9
LAMPS INSIDE	1	η up (%)	0.6	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)		η down (%)	99.4	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: QXF  
Test Date: 2023-07-16

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
Humidity: 65.0%  
Test Distance: 8.700m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

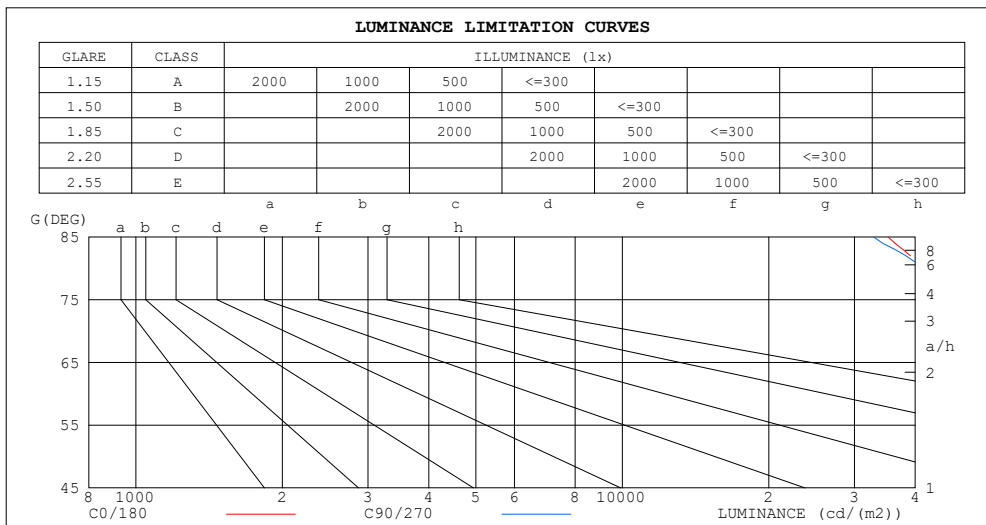
$\gamma$	C0	C90	C180	C270					$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	602.1	600.0	603.0	603.0					0- 10	57.92	57.92	3.18,3.18
20	573.2	570.3	574.7	576.1					10- 20	166.6	224.5	12.3,12.3
30	526.3	523.1	527.7	530.5					20- 30	254.7	479.3	26.3,26.3
40	461.9	458.4	463.5	466.5					30- 40	310.8	790.1	43.3,43.3
50	381.3	377.7	382.5	385.7					40- 50	327.1	1117	61.3,61.3
60	285.5	282.7	285.3	288.7					50- 60	299.6	1417	77.7,77.7
70	177.1	176.1	177.1	180.6					60- 70	229.8	1647	90.3,90.3
80	73.23	71.90	73.27	71.53					70- 80	131.0	1778	97.5,97.5
90	4.918	6.328	4.230	3.790					80- 90	35.39	1813	99.4,99.4
100	0.6402	0.8721	0.7888	0.8384					90-100	1.465	1814	99.5,99.5
110	0.9972	1.072	1.171	0.9604					100-110	0.9647	1815	99.6,99.6
120	1.391	1.441	1.577	1.330					110-120	1.235	1817	99.6,99.6
130	1.761	1.823	1.946	1.712					120-130	1.456	1818	99.7,99.7
140	2.118	2.156	2.254	2.020					130-140	1.530	1820	99.8,99.8
150	2.352	2.451	2.513	2.334					140-150	1.431	1821	99.9,99.9
160	2.574	2.710	2.722	2.574					150-160	1.169	1822	99.9,99.9
170	2.746	2.907	2.870	2.771					160-170	0.7744	1823	100,100
180	2.919	2.944	2.931	2.944					170-180	0.2732	1823	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QXF  
Test Date:2023-07-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
Humidity:65.0%  
Test Distance:8.700m [K=1.0000]  
Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:24.001V I:0.6246A P:14.991W PF:1.0000 Freq:0Hz Lamp Flux:1823.16x1 lm		
NAME: SAX12306275	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.01*1	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	35176	32853
80	42169	41403
75	47631	47527
70	51783	51484
65	55025	54457
60	57099	56540
55	58424	57860
50	59317	58762
45	59905	59389

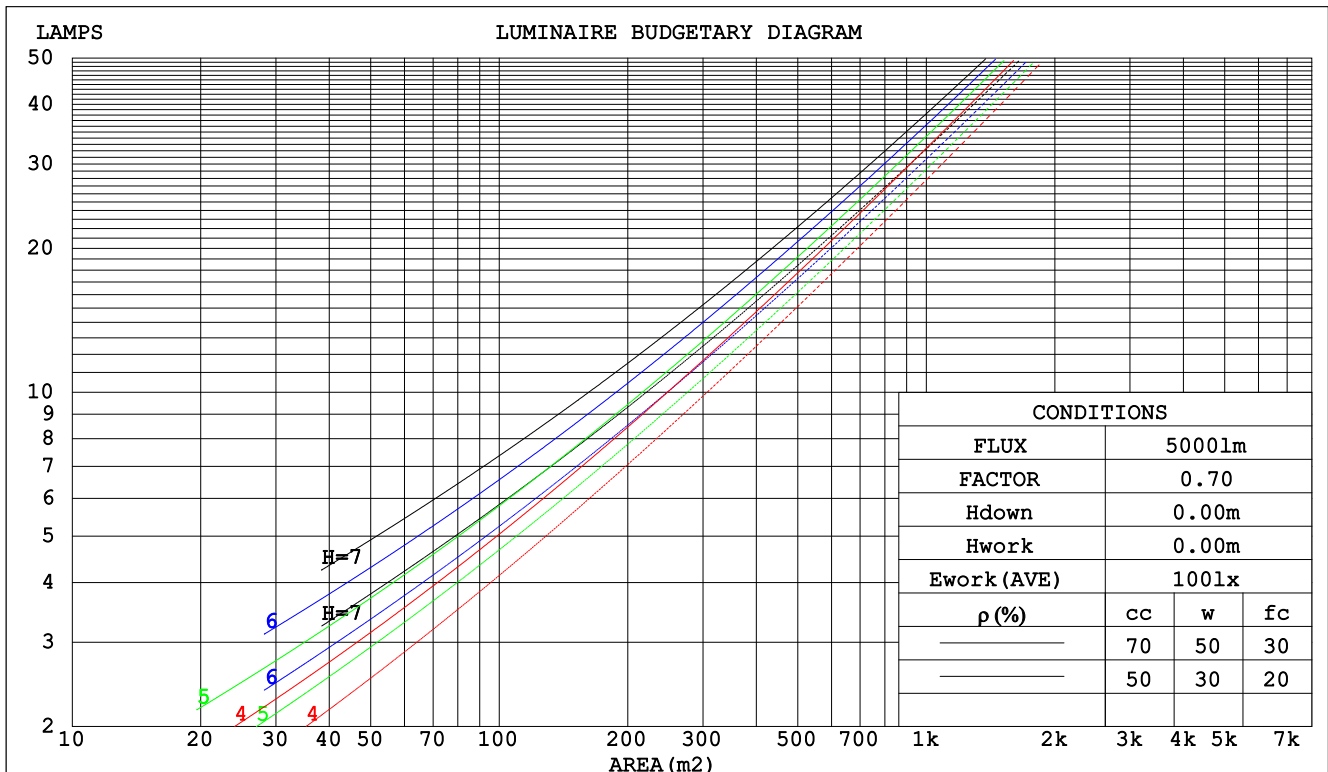
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QXF  
Test Date:2023-07-16

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
Humidity:65.0%  
Test Distance:8.700m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.001V I:0.6246A P:14.991W PF:1.0000 Freq:0Hz Lamp Flux:1823.16x1 lm		
NAME: SAX12306275	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.01*1	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.99
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.54	.66	.58	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.44	.39	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.34	.32
8.0	.46	.38	.32	.45	.37	.31	.44	.37	.31	.43	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QXF  
Test Date:2023-07-16

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
Humidity:65.0%  
Test Distance:8.700m [K=1.0000]  
Remarks:

### WEC AND CCEC

Test:U:24.001V I:0.6246A P:14.991W PF:1.0000 Freq:0Hz		
Lamp Flux:1823.16x1 lm		
NAME: SAX12306275	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.01*1	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.313	.178	.056	.306	.174	.055	.292	.168	.054	.280	.161	.052	.268	.155	.050		
2.0	.294	.161	.050	.288	.159	.049	.276	.153	.048	.265	.149	.047	.255	.144	.045		
3.0	.272	.145	.043	.267	.143	.043	.256	.139	.042	.246	.135	.041	.237	.131	.041		
4.0	.251	.131	.038	.246	.129	.038	.237	.126	.037	.228	.122	.037	.220	.119	.036		
5.0	.232	.118	.034	.228	.117	.034	.219	.114	.034	.211	.112	.033	.204	.109	.033		
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.197	.102	.030	.190	.100	.030		
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.178	.092	.027		
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025		
9.0	.175	.085	.024	.172	.084	.024	.167	.082	.023	.162	.081	.023	.157	.080	.023		
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.152	.076	.022	.148	.074	.021		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.195	.195	.195	.166	.166	.166	.114	.114	.114	.065	.065	.065	.021	.021	.021	
1.0	.185	.160	.138	.158	.138	.119	.108	.095	.082	.062	.055	.048	.020	.018	.015	
2.0	.177	.136	.102	.152	.117	.088	.104	.081	.062	.060	.047	.036	.019	.015	.012	
3.0	.169	.119	.078	.145	.102	.068	.100	.071	.048	.058	.042	.028	.018	.013	.009	
4.0	.162	.105	.062	.139	.091	.054	.095	.063	.038	.055	.037	.023	.018	.012	.007	
5.0	.154	.095	.051	.133	.082	.045	.091	.057	.032	.053	.034	.019	.017	.011	.006	
6.0	.147	.087	.043	.127	.075	.038	.087	.053	.027	.051	.031	.016	.016	.010	.005	
7.0	.140	.080	.037	.121	.069	.033	.083	.049	.023	.048	.029	.014	.016	.009	.005	
8.0	.134	.074	.033	.115	.064	.029	.080	.045	.020	.046	.027	.012	.015	.009	.004	
9.0	.128	.069	.030	.110	.060	.026	.076	.042	.018	.044	.025	.011	.014	.008	.004	
10.0	.122	.065	.027	.105	.056	.023	.073	.040	.017	.043	.023	.010	.014	.008	.003	

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QXF  
Test Date:2023-07-16

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
Humidity:65.0%  
Test Distance:8.700m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

Test:U:24.001V I:0.6246A P:14.991W PF:1.0000 Freq:0Hz										
Lamp Flux:1823.16x1 lm										
NAME: SAX12306275					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: EVERFINE					SUR.: 0.01*1			Shielding Angle:		
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	24.9	26.5	25.2	26.7	26.9	24.9	26.4	25.2	26.6	26.9
3H	26.5	27.9	26.8	28.1	28.4	26.4	27.8	26.7	28.1	28.3
4H	27.1	28.4	27.4	28.7	28.9	27.0	28.4	27.3	28.6	28.9
6H	27.5	28.7	27.8	29.0	29.3	27.4	28.7	27.8	29.0	29.3
8H	27.6	28.8	28.0	29.1	29.4	27.6	28.8	27.9	29.1	29.4
12H	27.7	28.8	28.0	29.2	29.5	27.6	28.8	28.0	29.1	29.4
4H 2H	25.5	26.9	25.9	27.2	27.4	25.5	26.9	25.8	27.1	27.4
3H	27.3	28.4	27.6	28.7	29.1	27.2	28.4	27.6	28.7	29.0
4H	28.0	29.1	28.4	29.4	29.7	27.9	29.0	28.3	29.4	29.7
6H	28.5	29.5	28.9	29.8	30.2	28.5	29.4	28.9	29.8	30.2
8H	28.7	29.6	29.1	30.0	30.4	28.6	29.5	29.1	29.9	30.3
12H	28.8	29.6	29.2	30.0	30.4	28.7	29.6	29.2	30.0	30.4
8H 4H	28.2	29.1	28.7	29.5	29.9	28.2	29.1	28.6	29.5	29.9
6H	28.9	29.7	29.4	30.1	30.5	28.9	29.6	29.3	30.0	30.5
8H	29.2	29.8	29.6	30.3	30.7	29.1	29.8	29.6	30.2	30.7
12H	29.4	29.9	29.8	30.4	30.9	29.3	29.9	29.8	30.3	30.8
12H 4H	28.2	29.1	28.7	29.5	29.9	28.2	29.0	28.7	29.4	29.8
6H	29.0	29.6	29.4	30.1	30.5	28.9	29.6	29.4	30.0	30.5
8H	29.3	29.8	29.7	30.3	30.8	29.2	29.8	29.7	30.2	30.7
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 1823 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.1)  
Area: 0.01 m2

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QXF  
Test Date:2023-07-16

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
Humidity:65.0%  
Test Distance:8.700m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:24.001V I:0.6246A P:14.991W PF:1.0000 Freq:0Hz Lamp Flux:1823.16x1 lm		
NAME: SAX12306275	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.01*1	Shielding Angle:

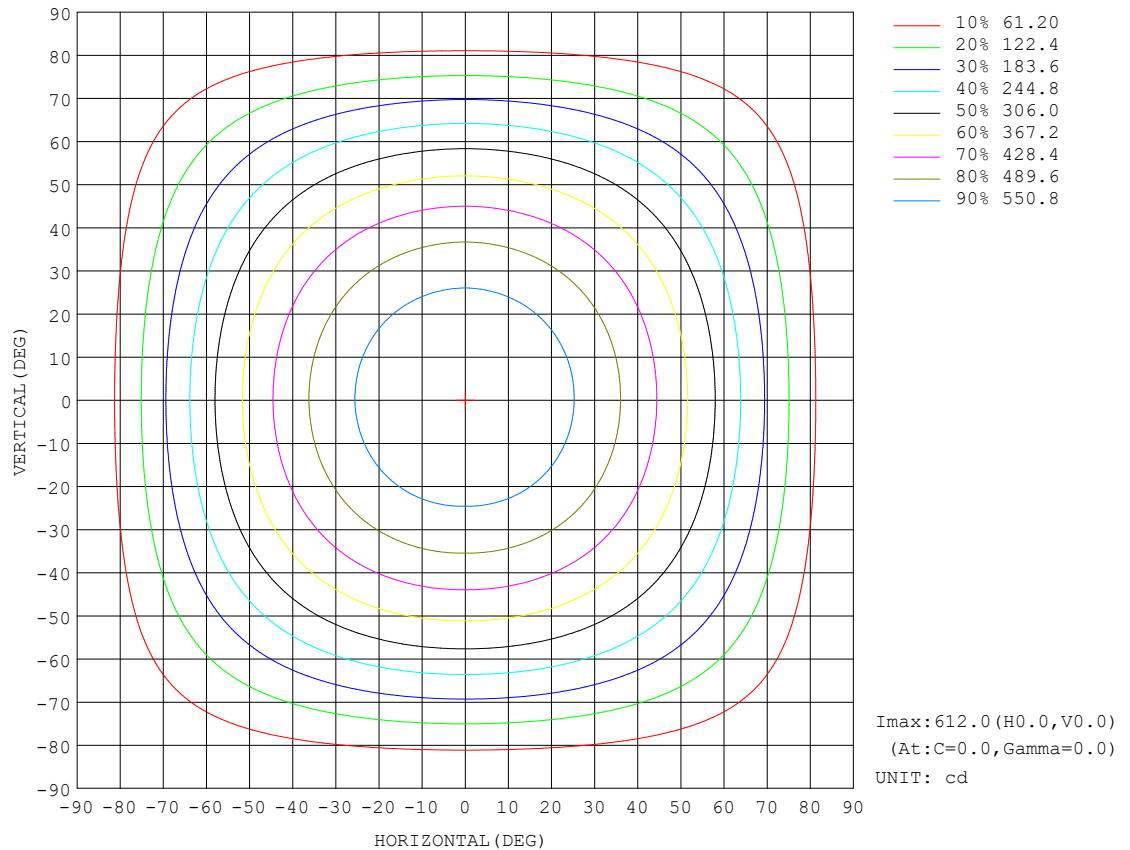
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT)    k(RI) x RCR = 5									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	47	64	54	47	40
1.00	75	64	57	74	63	56	72	65	56	48
1.25	82	72	65	81	71	64	78	70	63	56
1.50	87	77	70	86	77	70	83	75	69	61
2.00	94	86	79	93	85	78	89	82	77	69
2.50	98	91	84	96	89	83	92	86	82	73
3.00	102	95	89	100	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	98	95	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QXF  
Test Date:2023-07-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
Humidity:65.0%  
Test Distance:8.700m [K=1.0000]  
Remarks:

### ISOCANDELA DIAGRAM

Test:U:24.001V I:0.6246A P:14.991W PF:1.0000 Freq:0Hz Lamp Flux:1823.16x1 lm		
NAME: SAX12306275	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.01*1	Shielding Angle:



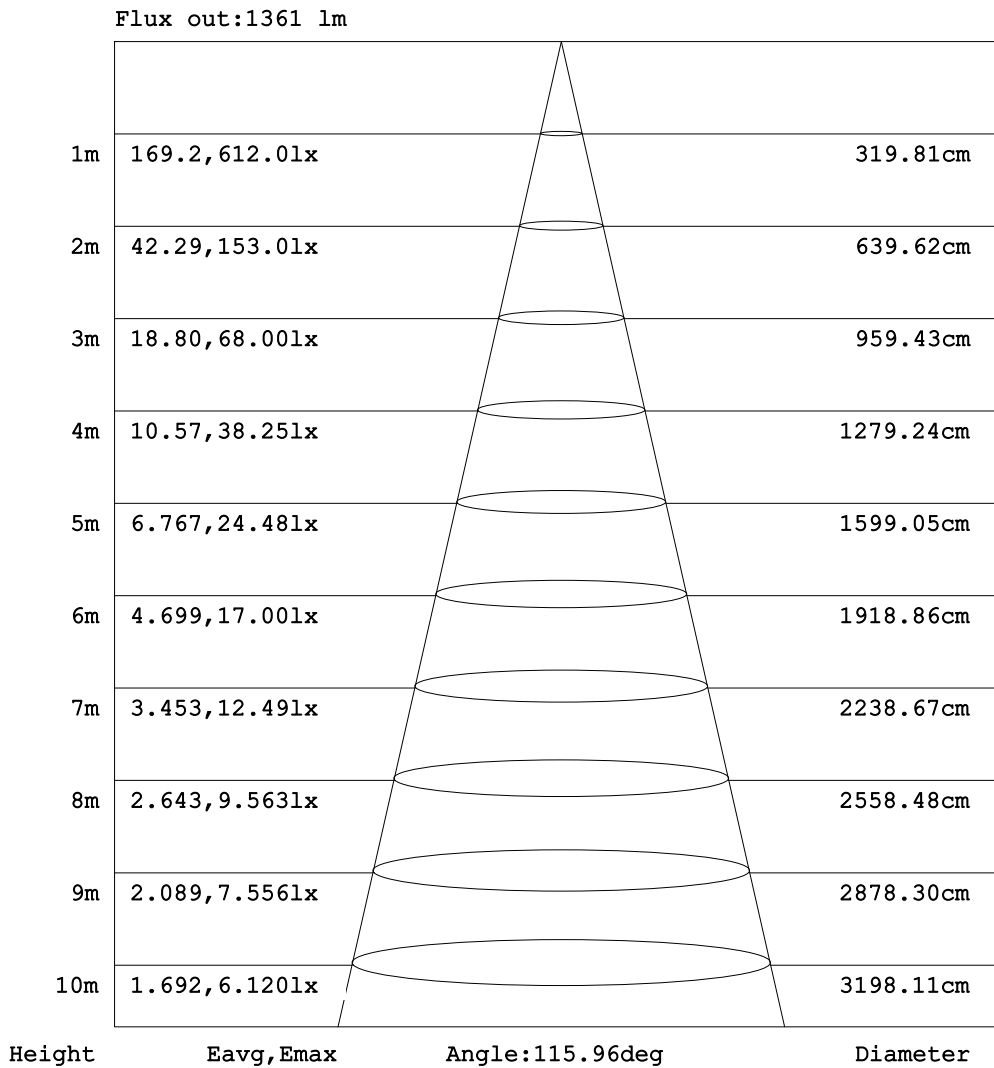
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QXF  
Test Date:2023-07-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
Humidity:65.0%  
Test Distance:8.700m [K=1.0000]  
Remarks:



**AAI Figure**

Test:U:24.001V I:0.6246A P:14.991W PF:1.0000 Freq:0Hz Lamp Flux:1823.16x1 lm		
NAME: SAX12306275	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.01*1	Shielding Angle:



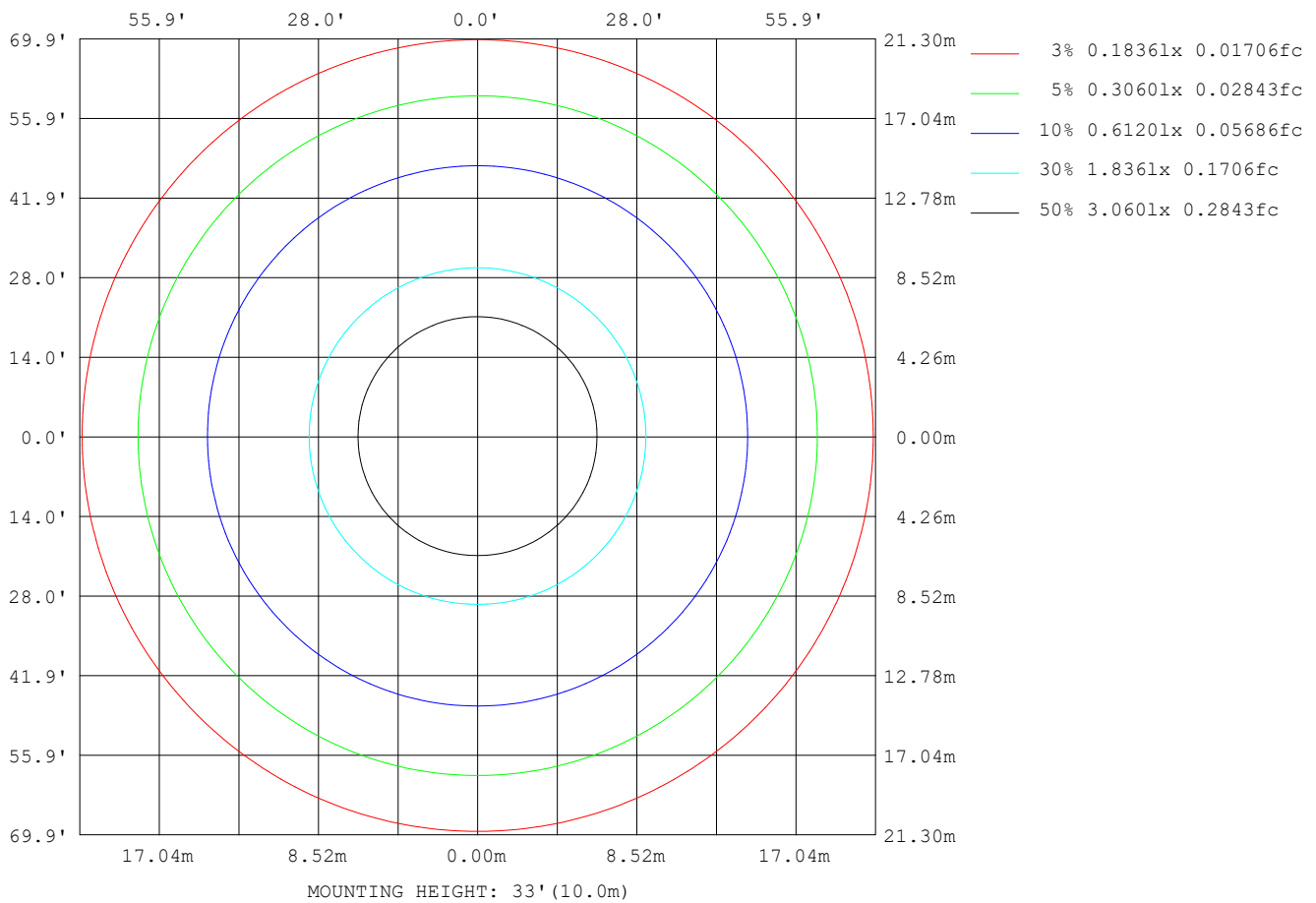
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QXF  
Test Date:2023-07-16

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
Humidity:65.0%  
Test Distance:8.700m [K=1.0000]  
Remarks:

ISOLUX DIAGRAM

Test:U:24.001V I:0.6246A P:14.991W PF:1.0000 Freq:0Hz Lamp Flux:1823.16x1 lm		
NAME: SAX12306275	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.01*1	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QXF  
Test Date:2023-07-16

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
Humidity:65.0%  
Test Distance:8.700m [K=1.0000]  
Remarks:

### LED Avg.L Report

Test:U:24.001V I:0.6246A P:14.991W PF:1.0000 Freq:0Hz Lamp Flux:1823.16x1 lm		
NAME: SAX12306275	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.01*1	Shielding Angle:

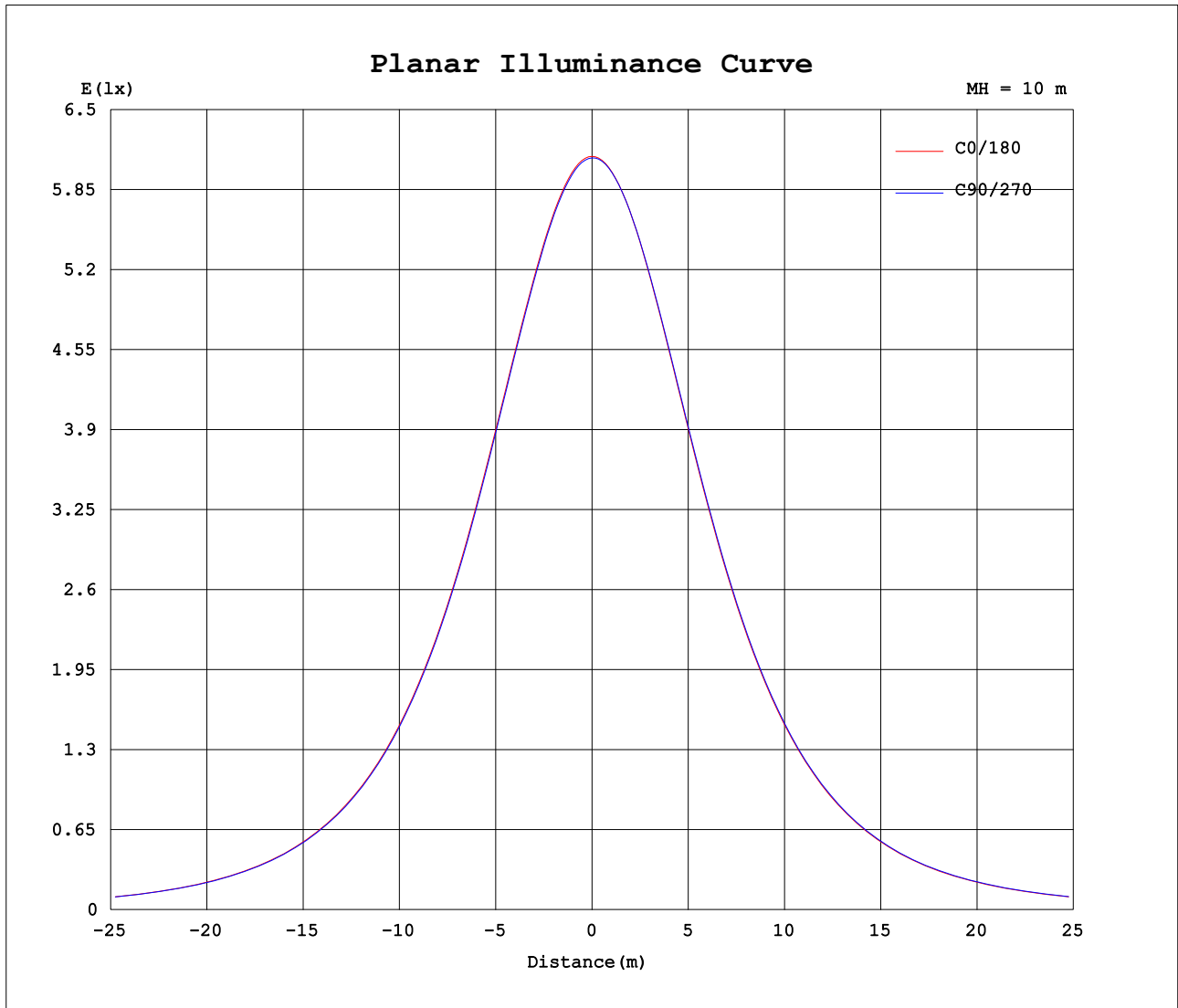
AvgL	cd/m2
L_0~180 (65) av	54993
L_0~180 (75) av	47694
L_0~180 (85) av	34780
L_90~270 (65) av	55134
L_90~270 (75) av	47999
L_90~270 (85) av	32259
L_45 (65) av	55079
L_45 (75) av	47889
L_45 (85) av	33180

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QXF  
Test Date:2023-07-16

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
Humidity:65.0%  
Test Distance:8.700m [K=1.0000]  
Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: QXF  
 Test Date: 2023-07-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
 Humidity: 65.0%  
 Test Distance: 8.700m [K=1.0000]  
 Remarks:

### LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.001V I:0.6246A P:14.991W PF:1.0000 Freq:0Hz Lamp Flux:1823.16x1 lm		
NAME: SAX12306275	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 0.01*1	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	612	611	612	611															
5	610	608	610	609															
10	602	600	603	603															
15	590	587	591	592															
20	573	570	575	576															
25	552	549	554	556															
30	526	523	528	530															
35	496	493	498	501															
40	462	458	463	466															
45	424	420	425	428															
50	381	378	382	386															
55	335	332	336	339															
60	285	283	285	289															
65	233	230	232	236															
70	177	176	177	181															
75	123	123	124	125															
80	73.2	71.9	73.3	71.5															
85	30.7	28.6	30.0	27.6															
90	4.92	6.33	4.23	3.79															
95	0.97	1.33	0.65	0.86															
100	0.64	0.87	0.79	0.84															
105	0.81	0.94	0.97	0.88															
110	1.00	1.07	1.17	0.96															
115	1.21	1.24	1.37	1.16															
120	1.39	1.44	1.58	1.33															
125	1.59	1.64	1.75	1.54															
130	1.76	1.82	1.95	1.71															
135	1.95	1.98	2.11	1.90															
140	2.12	2.16	2.25	2.02															
145	2.30	2.29	2.40	2.18															
150	2.35	2.45	2.51	2.33															
155	2.52	2.57	2.62	2.46															
160	2.57	2.71	2.72	2.57															
165	2.69	2.81	2.81	2.70															
170	2.75	2.91	2.87	2.77															
175	2.82	2.93	2.92	2.89															
180	2.92	2.94	2.93	2.94															

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QXF  
Test Date:2023-07-16

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.444  
Humidity:65.0%  
Test Distance:8.700m [K=1.0000]  
Remarks: