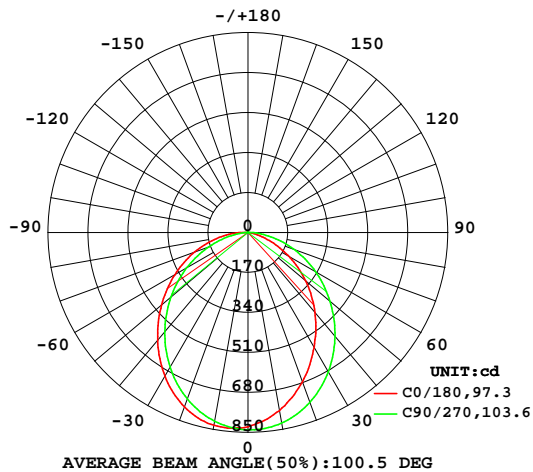


## LUMINAIRE PHOTOMETRIC TEST REPORT

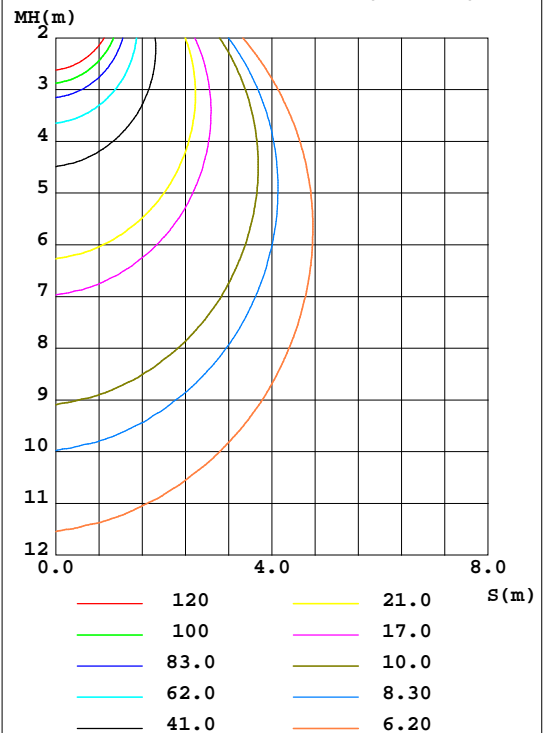
Test:U:220.5V I:0.1717A P:36.03W PF:0.9521 Freq:49.99Hz Lamp Flux:2111.85x1 lm		
NAME: LLS	TYPE:	WEIGHT:
SPEC.:LLS-LE6933FDXSS180[F]-F25NW8W-CC	DIM.: 1200*69*33	SERIAL No.:
MFR.: Colors	SUR.:1200*69	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 58.61 lm/W			
MODEL	LLS	I <sub>max</sub> (cd)	838.9	S/MH(C0/180)	1.26
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.18
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2111.9	h UP,DN(C0-180)	0.4,45.6
NOMINAL FLUX(lm)	2111.85	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.4,53.6
LAMPS INSIDE	1	h up(%)	0.8	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	h down(%)	99.2	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: COLORS  
 Test Date: 2019-03-14

g Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.500m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

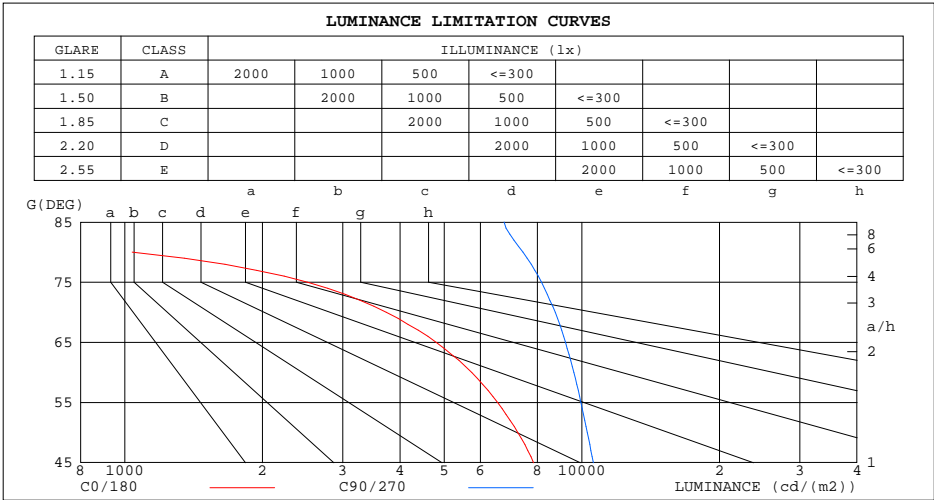
g	C0	C90	C180	C270					g	F zone	F total	%lum,lamp
10	769.3	822.9	832.1	814.9					0~ 10	78.33	78.33	3.71,3.71
20	676.1	769.0	789.6	753.8					10~ 20	220.5	298.8	14.2,14.2
30	563.3	683.6	706.2	662.3					20~ 30	323.8	622.7	29.5,29.5
40	443.1	575.9	598.1	550.5					30~ 40	374.8	997.5	47.2,47.2
50	321.3	456.0	479.9	428.0					40~ 50	372.1	1370	64.9,64.9
60	198.1	331.3	359.6	301.7					50~ 60	321.4	1691	80.1,80.1
70	88.18	206.5	240.4	176.1					60~ 70	234.5	1925	91.2,91.2
80	12.43	89.08	125.1	63.26					70~ 80	129.9	2055	97.3,97.3
90	0.8360	7.809	31.76	0.8140					80~ 90	39.95	2095	99.2,99.2
100	1.253	0.9560	1.296	1.081					90~100	3.491	2099	99.4,99.4
110	1.786	1.496	1.009	1.597					100~110	1.384	2100	99.4,99.4
120	2.378	2.072	1.489	2.184					110~120	1.729	2102	99.5,99.5
130	3.002	2.676	2.050	2.794					120~130	2.084	2104	99.6,99.6
140	3.547	3.240	2.652	3.343					130~140	2.249	2106	99.7,99.7
150	4.076	3.785	3.275	3.813					140~150	2.177	2108	99.8,99.8
160	4.503	4.193	3.833	4.202					150~160	1.833	2110	99.9,99.9
170	4.628	4.484	4.296	4.481					160~170	1.231	2111	100,100
180	4.644	4.644	4.594	4.631					170~180	0.4360	2112	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2019-03-14

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.5V I:0.1717A P:36.03W PF:0.9521 Freq:49.99Hz Lamp Flux:2111.85x1 lm		
NAME: LLS	TYPE:	WEIGHT:
SPEC.:LLS-LE6933FDXSS180[F]-F25NW8W-CC	DIM.: 1200*69*33	SERIAL No.:
MFR.: Colors	SUR.:1200*69	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	133	6757
80	1038	7435
75	2512	8160
70	3737	8751
65	4801	9213
60	5742	9603
55	6548	9955
50	7244	10282
45	7842	10599

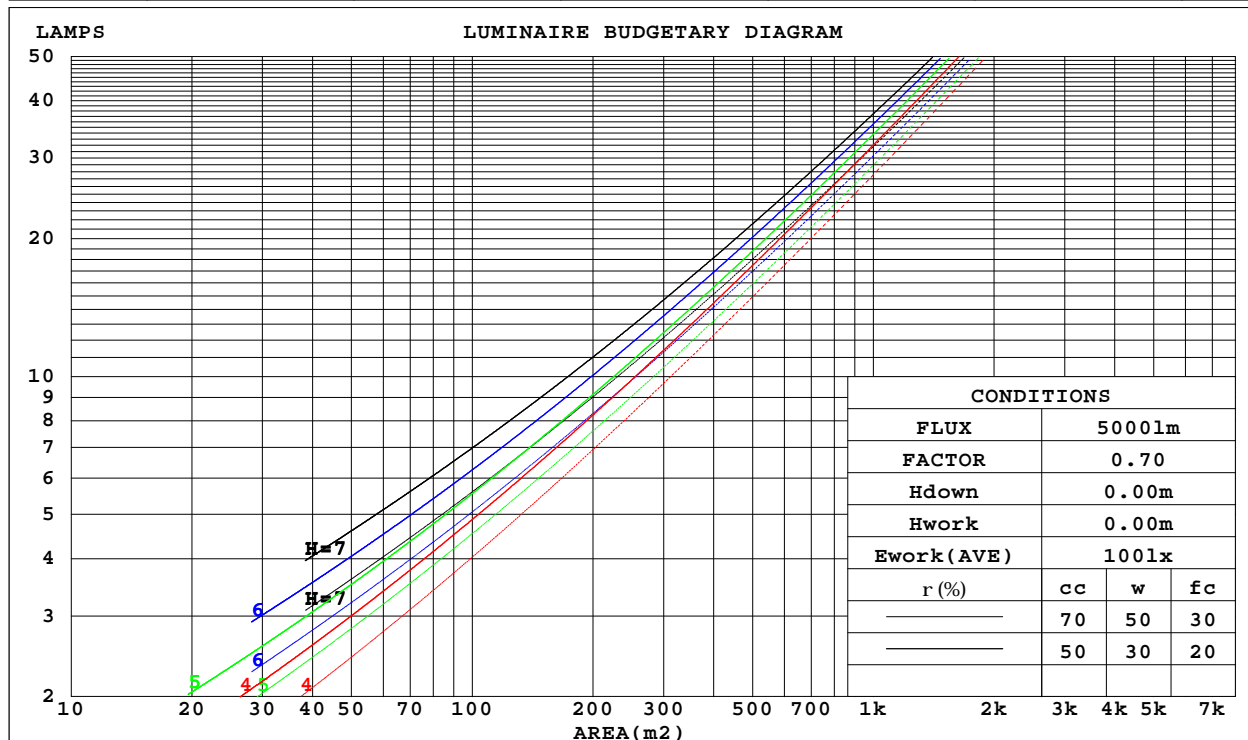
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2019-03-14

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.5V I:0.1717A P:36.03W PF:0.9521 Freq:49.99Hz Lamp Flux:2111.85x1 lm		
NAME: LLS	TYPE:	WEIGHT:
SPEC.:LLS-LE6933FDXSS180[F]-F25NW8W-CC	DIM.: 1200*69*33	SERIAL No.:
MFR.: Colors	SUR.:1200*69	Shielding Angle:

r <sub>cc</sub>	80%			70%			50%			30%			10%			0
r <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r <sub>fc</sub>	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	1.01	1.01	1.01	.99
1.0	1.04	1.00	.96	1.02	.98	.95	.97	.94	.91	.93	.91	.89	.90	.88	.86	.84
2.0	.91	.85	.79	.89	.83	.78	.86	.80	.76	.82	.78	.74	.79	.76	.72	.70
3.0	.80	.72	.66	.79	.71	.65	.76	.69	.64	.73	.67	.63	.70	.66	.62	.60
4.0	.71	.63	.56	.70	.62	.56	.68	.61	.55	.65	.59	.54	.63	.58	.53	.51
5.0	.64	.55	.49	.63	.55	.48	.61	.53	.48	.59	.52	.47	.57	.51	.47	.45
6.0	.58	.49	.43	.57	.49	.42	.55	.48	.42	.53	.47	.42	.52	.46	.41	.39
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.37	.49	.42	.37	.47	.41	.37	.35
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.33	.43	.37	.33	.31
9.0	.44	.36	.31	.44	.36	.31	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.37	.31	.27	.26



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:COLORS  
 Test Date:2019-03-14

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks:

## WEC AND CCEC

Test:U:220.5V I:0.1717A P:36.03W PF:0.9521 Freq:49.99Hz Lamp Flux:2111.85x1 lm		
NAME: LLS	TYPE:	WEIGHT:
SPEC.:LLS-LE6933FDXSS180[F]-F25NW8W-CC	DIM.: 1200*69*33	SERIAL No.:
MFR.: Colors	SUR.:1200*69	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)															
0.0																
1.0	.300	.171	.054	.293	.167	.053	.279	.160	.051	.267	.154	.049	.255	.148	.048	
2.0	.283	.155	.048	.276	.152	.047	.264	.147	.046	.253	.142	.044	.243	.137	.043	
3.0	.262	.139	.042	.256	.137	.041	.246	.133	.040	.236	.129	.040	.227	.126	.039	
4.0	.242	.126	.037	.237	.124	.037	.228	.121	.036	.219	.118	.036	.211	.115	.035	
5.0	.225	.114	.033	.220	.113	.033	.212	.110	.032	.204	.108	.032	.197	.105	.032	
6.0	.209	.105	.030	.205	.103	.030	.197	.101	.029	.190	.099	.029	.184	.097	.029	
7.0	.195	.096	.027	.191	.095	.027	.184	.093	.027	.178	.091	.027	.172	.089	.026	
8.0	.182	.089	.025	.179	.088	.025	.173	.086	.025	.167	.085	.024	.162	.083	.024	
9.0	.171	.083	.023	.168	.082	.023	.163	.080	.023	.157	.079	.023	.153	.078	.022	
10.0	.161	.077	.021	.158	.076	.021	.153	.075	.021	.149	.074	.021	.144	.073	.021	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.196	.196	.196	.168	.168	.168	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.186	.162	.141	.159	.139	.121	.109	.096	.084	.063	.055	.049	.020	.018	.016	
2.0	.177	.138	.105	.152	.119	.091	.104	.082	.063	.060	.048	.037	.019	.015	.012	
3.0	.169	.120	.082	.145	.104	.071	.100	.072	.050	.057	.042	.029	.018	.014	.010	
4.0	.161	.107	.065	.138	.092	.057	.095	.064	.040	.055	.038	.024	.018	.012	.008	
5.0	.154	.097	.054	.132	.084	.047	.091	.058	.033	.053	.034	.020	.017	.011	.007	
6.0	.147	.088	.046	.126	.076	.040	.087	.053	.028	.050	.031	.017	.016	.010	.006	
7.0	.140	.081	.040	.120	.070	.035	.083	.049	.025	.048	.029	.015	.016	.010	.005	
8.0	.134	.075	.035	.115	.065	.031	.080	.046	.022	.046	.027	.013	.015	.009	.004	
9.0	.128	.070	.032	.110	.061	.028	.076	.043	.020	.044	.025	.012	.014	.008	.004	
10.0	.122	.066	.029	.105	.057	.025	.073	.040	.018	.043	.024	.011	.014	.008	.004	

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2019-03-14

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.5V I:0.1717A P:36.03W PF:0.9521 Freq:49.99Hz Lamp Flux:2111.85x1 lm										
NAME: LLS					TYPE:			WEIGHT:		
SPEC.:LLS-LE6933FDXSS180[F]-F25NW8W-CC					DIM.: 1200*69*33			SERIAL No.:		
MFR.: Colors					SUR.:1200*69			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	16.1	17.6	16.4	17.8	18.0	17.9	19.3	18.1	19.5	19.8
	3H	16.9	18.3	17.2	18.5	18.8	19.4	20.7	19.7	21.0
	4H	17.1	18.4	17.4	18.7	18.9	20.0	21.3	20.3	21.5
	6H	17.1	18.3	17.4	18.6	18.9	20.4	21.7	20.8	21.9
	8H	17.0	18.2	17.4	18.5	18.8	20.6	21.8	20.9	22.1
	12H	17.0	18.1	17.4	18.4	18.8	20.7	21.8	21.1	22.1
4H	2H	16.8	18.1	17.2	18.4	18.7	18.2	19.5	18.5	19.8
	3H	17.8	19.0	18.2	19.3	19.6	19.9	21.0	20.2	21.3
	4H	18.1	19.1	18.5	19.5	19.8	20.6	21.6	21.0	22.0
	6H	18.2	19.1	18.6	19.4	19.8	21.2	22.1	21.6	22.5
	8H	18.1	19.0	18.6	19.4	19.8	21.4	22.3	21.8	22.6
	12H	18.1	18.9	18.5	19.3	19.7	21.6	22.3	22.0	22.7
8H	4H	18.4	19.3	18.8	19.6	20.0	20.7	21.5	21.1	21.9
	6H	18.6	19.3	19.0	19.7	20.1	21.4	22.1	21.8	22.5
	8H	18.6	19.2	19.0	19.6	20.1	21.7	22.3	22.1	22.7
	12H	18.6	19.1	19.0	19.6	20.1	21.9	22.4	22.4	22.9
12H	4H	18.4	19.2	18.9	19.6	20.0	20.7	21.4	21.1	21.8
	6H	18.6	19.3	19.1	19.7	20.2	21.4	22.0	21.9	22.4
	8H	18.7	19.2	19.2	19.7	20.2	21.7	22.2	22.2	22.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.1 / - 0.2				
1.5H	+ 0.3 / - 0.6					+ 0.2 / - 0.2				
2.0H	+ 0.4 / - 0.9					+ 0.4 / - 0.5				

CIE Pub.117, 2112 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.6)

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2019-03-14

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:220.5V I:0.1717A P:36.03W PF:0.9521 Freq:49.99Hz Lamp Flux:2111.85x1 lm		
NAME: LLS	TYPE:	WEIGHT:
SPEC.:LLS-LE6933FDXSS180[F]-F25NW8W-CC	DIM.: 1200*69*33	SERIAL No.:
MFR.: Colors	SUR.:1200*69	Shielding Angle:

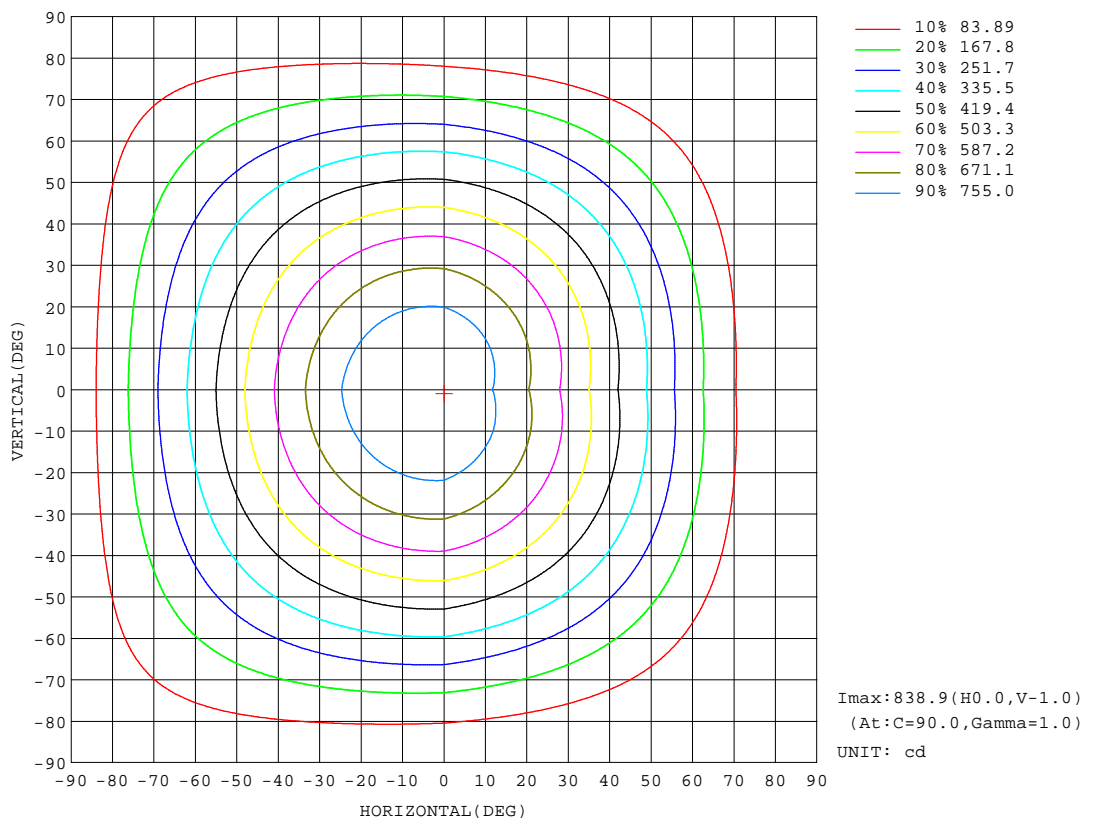
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	59	48	41	58	47	41	57	47	41	34
0.80	69	58	51	68	57	50	66	56	50	43
1.00	77	66	59	76	66	59	74	67	59	52
1.25	84	74	67	83	73	67	80	72	66	59
1.50	89	79	73	87	79	72	84	77	71	64
2.00	96	87	81	94	86	80	90	84	79	71
2.50	99	92	86	97	90	85	93	88	83	75
3.00	103	96	91	100	94	90	96	91	87	79
4.00	106	101	96	104	99	95	100	96	92	83
5.00	109	104	100	106	102	99	102	98	95	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:COLORS  
 Test Date:2019-03-14

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.500m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

Test:U:220.5V I:0.1717A P:36.03W PF:0.9521 Freq:49.99Hz Lamp Flux:2111.85x1 lm		
NAME: LLS	TYPE:	WEIGHT:
SPEC.:LLS-LE6933FDXSS180[F]-F25NW8W-CC	DIM.: 1200*69*33	SERIAL No.:
MFR.: Colors	SUR.:1200*69	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2019-03-14

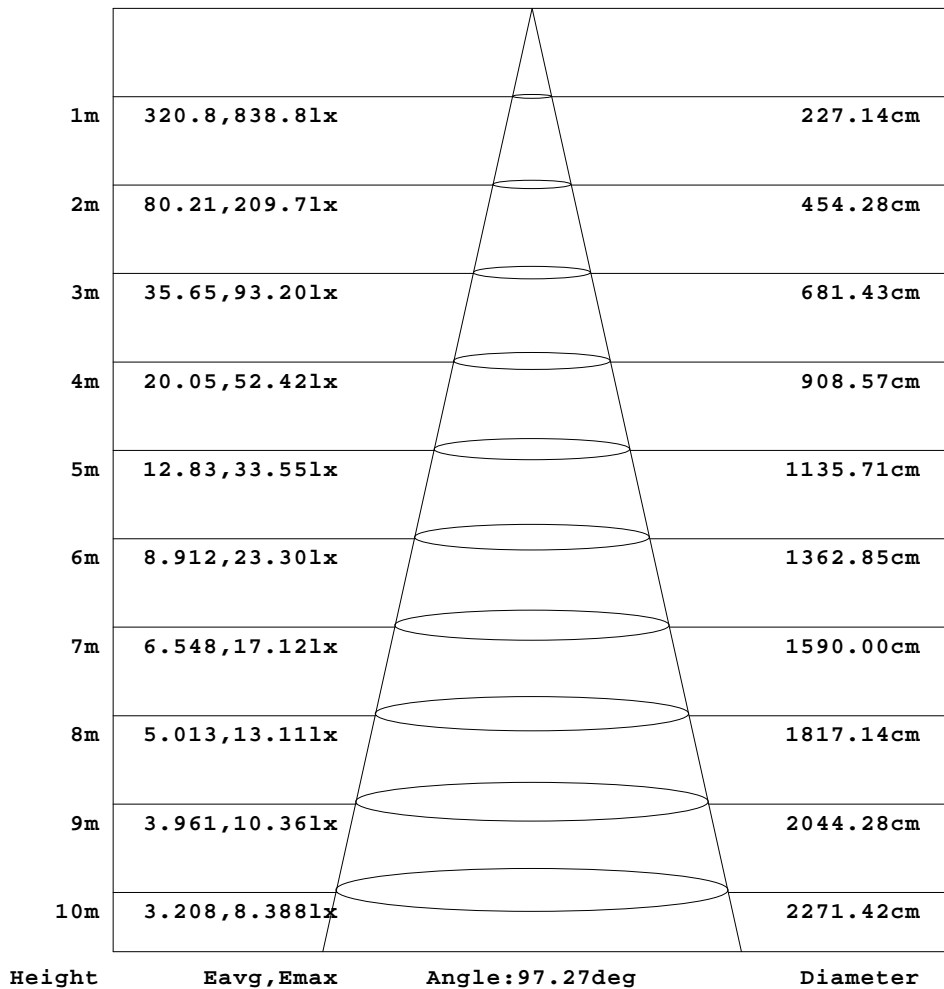
Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:



### AAI Figure

Test:U:220.5V I:0.1717A P:36.03W PF:0.9521 Freq:49.99Hz Lamp Flux:2111.85x1 lm		
NAME: LLS	TYPE:	WEIGHT:
SPEC.:LLS-LE6933FDXSS180[F]-F25NW8W-CC	DIM.: 1200*69*33	SERIAL No.:
MFR.: Colors	SUR.:1200*69	Shielding Angle:

Flux out:1334 lm



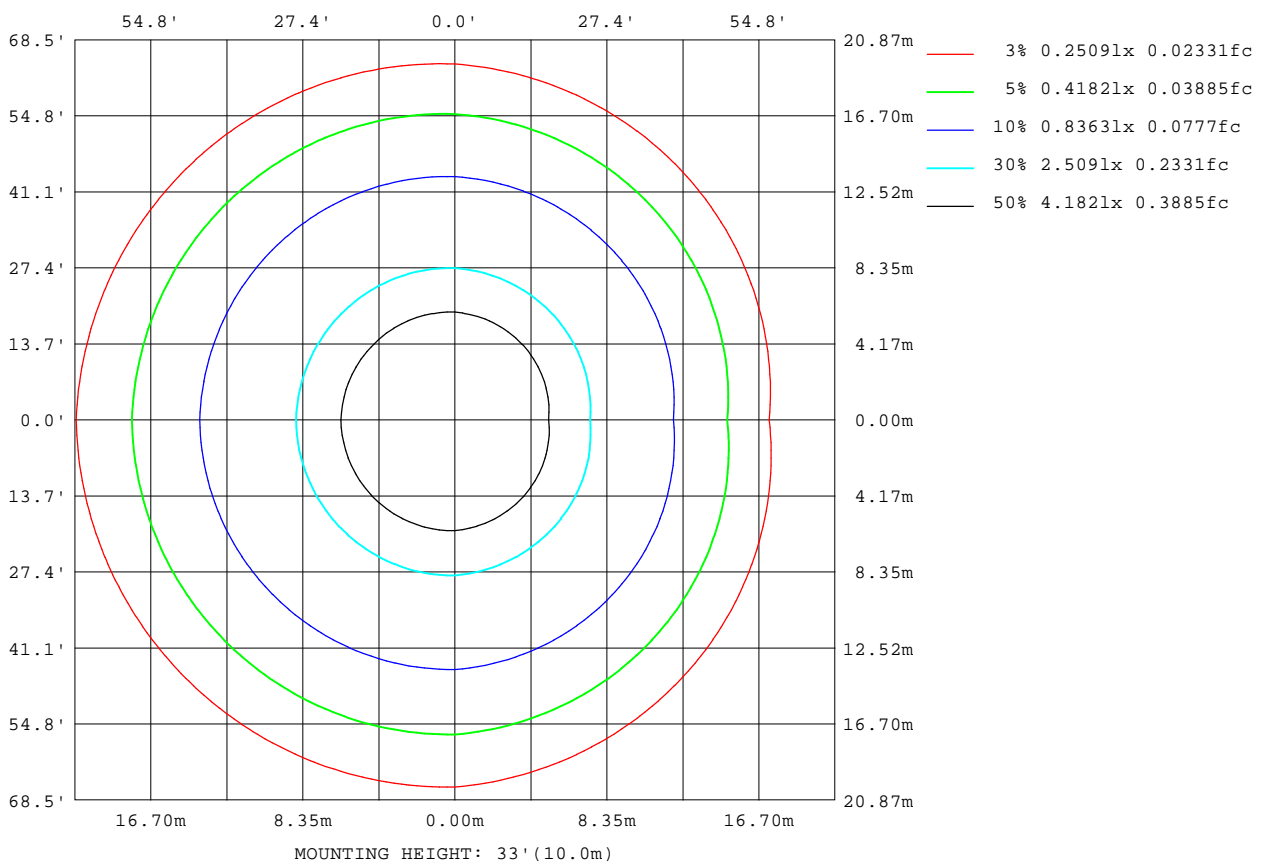
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2019-03-14

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:

# ISOLUX DIAGRAM

Test:U:220.5V I:0.1717A P:36.03W PF:0.9521 Freq:49.99Hz Lamp Flux:2111.85x1 lm		
NAME: LLS	TYPE:	WEIGHT:
SPEC.:LLS-LE6933FDXSS180[F]-F25NW8W-CC	DIM.: 1200*69*33	SERIAL No.:
MFR.: Colors	SUR.:1200*69	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2019-03-14

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:220.5V I:0.1717A P:36.03W PF:0.9521 Freq:49.99Hz Lamp Flux:2111.85x1 lm		
NAME: LLS	TYPE:	WEIGHT:
SPEC.:LLS-LE6933FDXSS180[F]-F25NW8W-CC	DIM.: 1200*69*33	SERIAL No.:
MFR.: Colors	SUR.:1200*69	Shielding Angle:

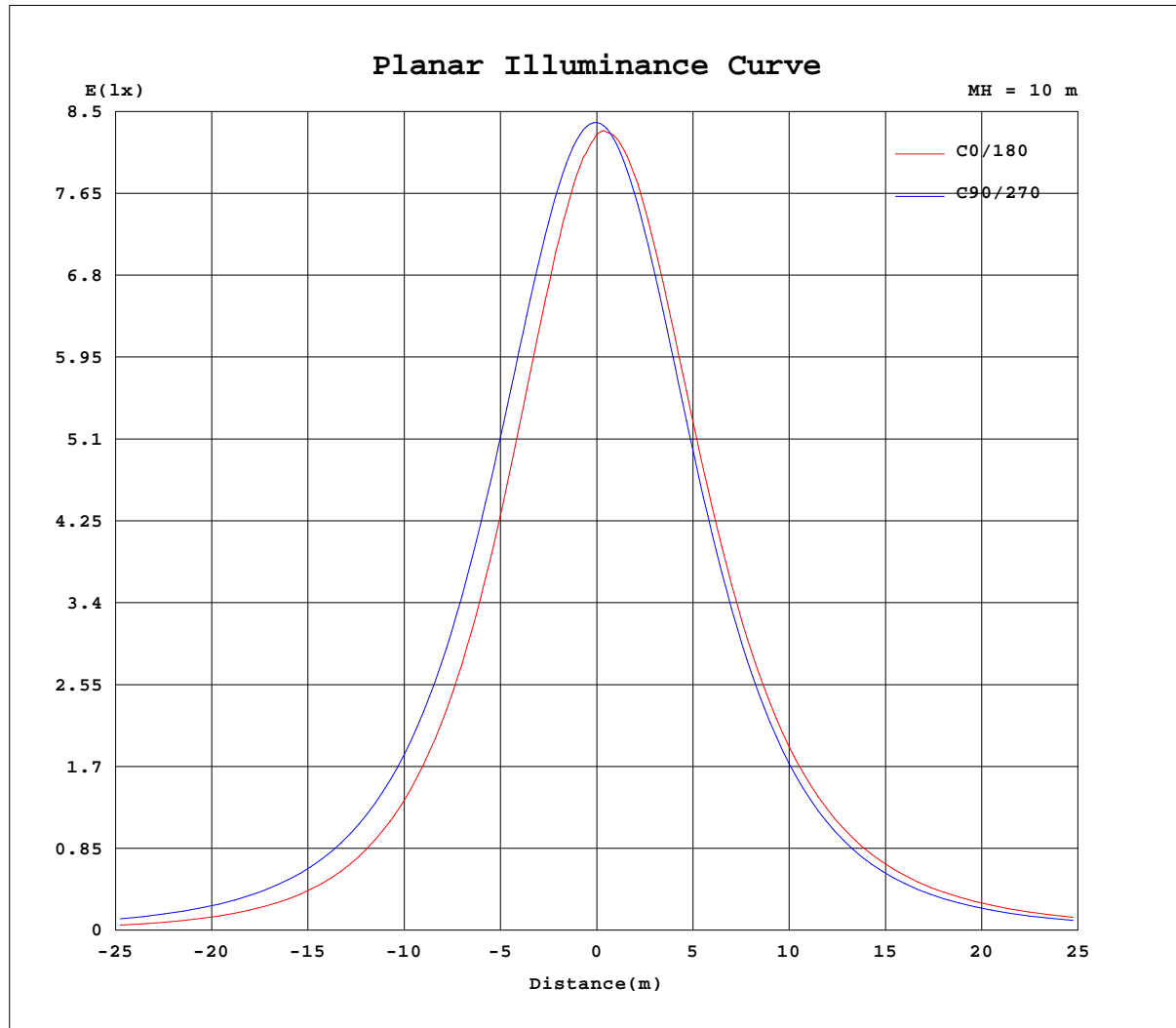
AvgL	cd/m2
L_0~180(65)av	7540
L_0~180(75)av	6336
L_0~180(85)av	6217
L_90~270(65)av	8695
L_90~270(75)av	7338
L_90~270(85)av	5225
L_45(65)av	8433
L_45(75)av	7201
L_45(85)av	5977

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2019-03-14

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: COLORS  
Test Date: 2019-03-14

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 7.500m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.5V I:0.1717A P:36.03W PF:0.9521 Freq:49.99Hz Lamp Flux:2111.85x1 lm		
NAME: LLS	TYPE:	WEIGHT:
SPEC.:LLS-LE6933FDXSS180[F]-F25NW8W-CC	DIM.: 1200*69*33	SERIAL No.:
MFR.: Colors	SUR.:1200*69	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	90	180	270															
0	827	839	827	839															
5	802	836	835	832															
10	769	823	832	815															
15	725	800	817	789															
20	676	769	790	754															
25	621	730	753	711															
30	563	684	706	662															
35	503	632	654	608															
40	443	576	598	551															
45	383	517	540	490															
50	321	456	480	428															
55	259	394	420	365															
60	198	331	360	302															
65	140	269	300	238															
70	88.2	207	240	176															
75	44.9	146	181	116															
80	12.4	89.1	125	63.3															
85	0.80	40.6	74.0	22.2															
90	0.84	7.81	31.8	0.81															
95	1.03	0.74	4.80	0.84															
100	1.25	0.96	1.30	1.08															
105	1.51	1.22	1.18	1.34															
110	1.79	1.50	1.01	1.60															
115	2.10	1.78	1.24	1.89															
120	2.38	2.07	1.49	2.18															
125	2.69	2.38	1.77	2.49															
130	3.00	2.68	2.05	2.79															
135	3.27	2.97	2.35	3.06															
140	3.55	3.24	2.65	3.34															
145	3.84	3.53	2.97	3.58															
150	4.08	3.79	3.28	3.81															
155	4.31	4.01	3.57	4.04															
160	4.50	4.19	3.83	4.20															
165	4.69	4.36	4.08	4.35															
170	4.63	4.48	4.30	4.48															
175	4.89	4.59	4.49	4.56															
180	4.64	4.64	4.59	4.63															

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:COLORS  
Test Date:2019-03-14

g Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks: