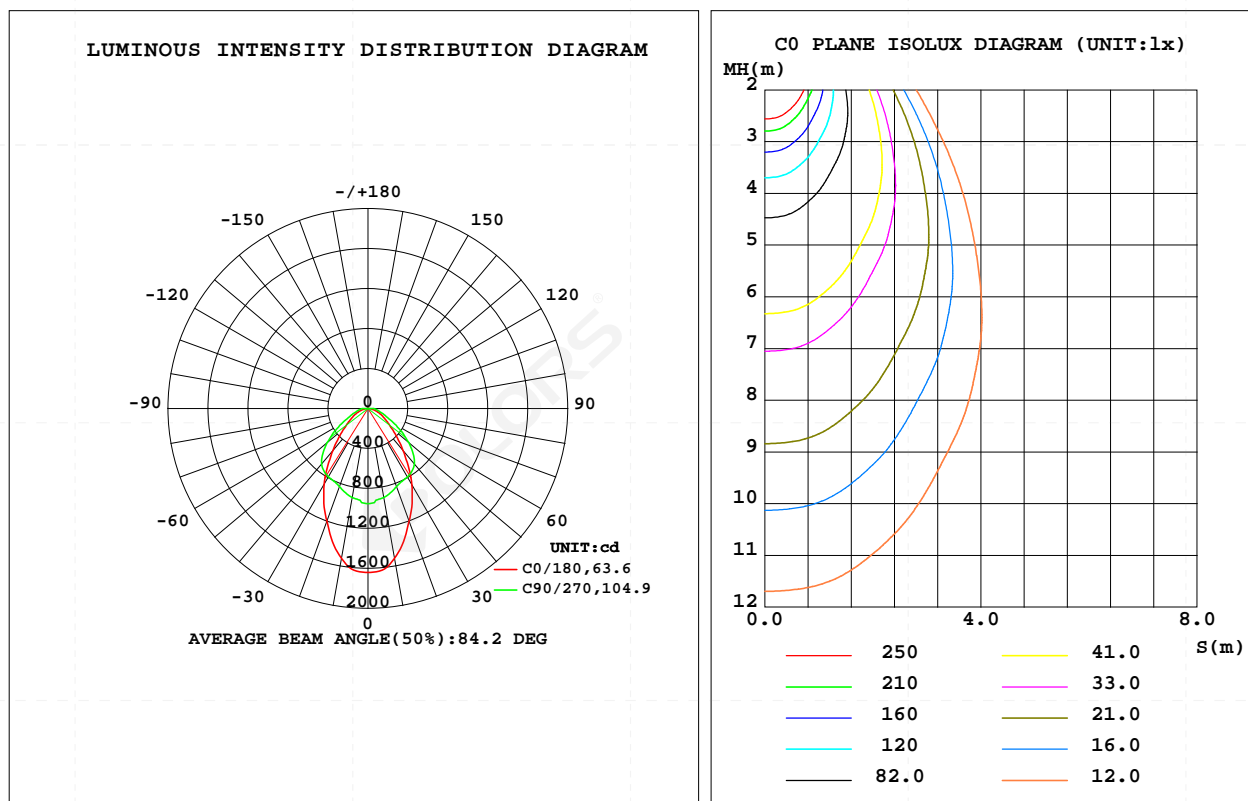


## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.9950A P:23.88W PF:1.000 Freq:0Hz Lamp Flux:2415.21x1 lm		
NAME: LLS-LE25FPXBS1200-F20NW8X-DC	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*25*25	SERIAL No.:
MFR.: COLORS	SUR.:1200*25	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 101.14 lm/W			
MODEL		I <sub>max</sub> (cd)	1641	S/MH(C0/180)	0.89
NOMINAL POWER(W)	23.88	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	2415.2	h UP,DN(C0-180)	0.0,50.0
NOMINAL FLUX(lm)	2415.21	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,50.0
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	24	h down(%)	100.0	CIBSE SHR MAX	1.05



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2020-04-13

g Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

**ZONAL FLUX DIAGRAM:**

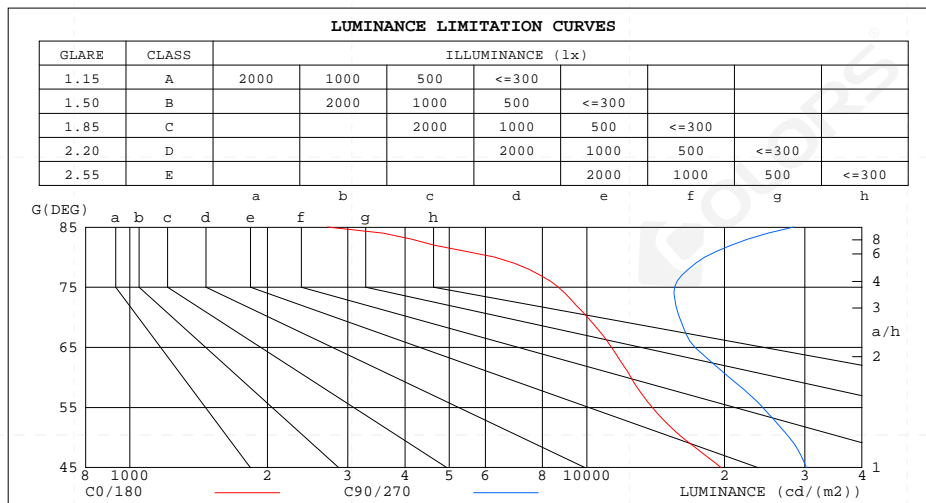
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	1526	899.0	905.1	899.0	1526	899.0	905.1	899.0	0- 10	103.3	103.3	4.28,4.28
20	1204	837.8	834.2	837.8	1204	837.8	834.2	837.8	10- 20	280.2	383.5	15.9,15.9
30	880.7	801.2	791.3	801.2	880.7	801.2	791.3	801.2	20- 30	402.3	785.9	32.5,32.5
40	547.1	723.7	723.8	723.7	547.1	723.7	723.8	723.7	30- 40	471.3	1257	52.1,52.1
50	312.3	528.1	535.0	528.1	312.3	528.1	535.0	528.1	40- 50	448.9	1706	70.6,70.6
60	187.6	307.7	307.7	307.7	187.6	307.7	307.7	307.7	50- 60	332.7	2039	84.4,84.4
70	103.0	160.4	163.7	160.4	103.0	160.4	163.7	160.4	60- 70	202.0	2241	92.8,92.8
80	32.77	91.57	94.33	91.57	32.77	91.57	94.33	91.57	70- 80	113.9	2355	97.5,97.5
90	0	0	0	0	0	0	0	0	80- 90	60.52	2415	100,100
100	0	0	0	0	0	0	0	0	90-100	0	2415	100,100
110	0	0	0	0	0	0	0	0	100-110	0	2415	100,100
120	0	0	0	0	0	0	0	0	110-120	0	2415	100,100
130	0	0	0	0	0	0	0	0	120-130	0	2415	100,100
140	0	0	0	0	0	0	0	0	130-140	0	2415	100,100
150	0	0	0	0	0	0	0	0	140-150	0	2415	100,100
160	0	0	0	0	0	0	0	0	150-160	0	2415	100,100
170	0	0	0	0	0	0	0	0	160-170	0	2415	100,100
180	0	0	0	0	0	0	0	0	170-180	0	2415	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:JYH  
 Test Date:2020-04-13

g Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.950m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.9950A P:23.88W PF:1.000 Freq:0Hz Lamp Flux:2415.21x1 lm		
NAME: LLS-LE25FPXBS1200-F20NW8X-DC	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*25*25	SERIAL No.:
MFR.: COLORS	SUR.:1200*25	Shielding Angle:



LUMINANCE cd/(m2)		
G( DEG)	C0/180	C90/270
85	2709	28350
80	6291	18108
75	8667	15561
70	10034	15950
65	11327	17241
60	12504	20516
55	13920	24295
50	16194	27743
45	19695	30223

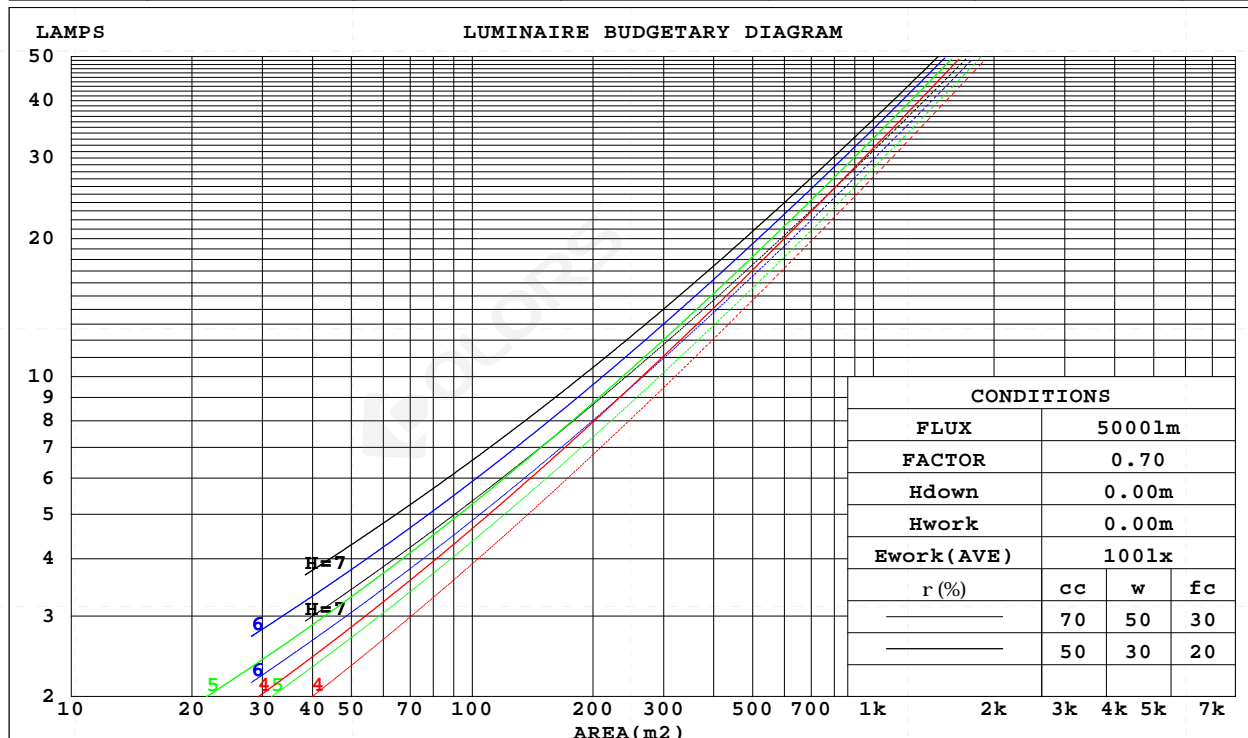
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2020-04-13

G Range: 0 - 180DEG  
G Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.9950A P:23.88W PF:1.000 Freq:0Hz Lamp Flux:2415.21x1 lm		
NAME: LLS-LE25FPXBS1200-F20NW8X-DC	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*25*25	SERIAL No.:
MFR.: COLORS	SUR.:1200*25	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															



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:JYH  
 Test Date:2020-04-13

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:10.950m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:24.00V I:0.9950A P:23.88W PF:1.000 Freq:0Hz Lamp Flux:2415.21x1 lm		
NAME: LLS-LE25FPXBS1200-F20NW8X-DC	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*25*25	SERIAL No.:
MFR.: COLORS	SUR.:1200*25	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															

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.179	.156	.136	.153	.134	.117	.105	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.169	.132	.101	.145	.114	.087	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.161	.114	.077	.138	.098	.067	.095	.068	.047	.055	.040	.028	.018	.013	.009	
4.0	.153	.101	.061	.131	.087	.053	.090	.061	.037	.052	.035	.022	.017	.012	.007	
5.0	.145	.090	.049	.125	.078	.043	.086	.054	.030	.050	.032	.018	.016	.010	.006	
6.0	.138	.082	.041	.119	.071	.036	.082	.049	.025	.048	.029	.015	.015	.010	.005	
7.0	.132	.075	.035	.113	.065	.030	.078	.045	.021	.045	.027	.013	.015	.009	.004	
8.0	.125	.069	.030	.108	.060	.026	.075	.042	.018	.043	.025	.011	.014	.008	.004	
9.0	.120	.064	.026	.103	.055	.023	.071	.039	.016	.042	.023	.010	.013	.008	.003	
10.0	.114	.059	.023	.098	.052	.020	.068	.036	.014	.040	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2020-04-13

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:24.00V I:0.9950A P:23.88W PF:1.000 Freq:0Hz Lamp Flux:2415.21x1 lm											
NAME: LLS-LE25FPXBS1200-F20NW8X-DC					TYPE:			WEIGHT:			
SPEC.:					DIM.: 1200*25*25			SERIAL No.:			
MFR.: COLORS					SUR.:1200*25			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	2H	19.1	20.5	19.3	20.7	20.9	20.7	22.1	20.9	22.3	22.5
	3H	19.8	21.1	20.1	21.4	21.6	21.5	22.8	21.8	23.1	23.3
	4H	20.1	21.3	20.4	21.6	21.8	22.0	23.2	22.3	23.4	23.7
	6H	20.2	21.4	20.6	21.7	21.9	22.4	23.6	22.8	23.9	24.1
	8H	20.2	21.4	20.6	21.7	21.9	22.7	23.9	23.1	24.1	24.4
	12H	20.2	21.3	20.6	21.6	21.9	23.1	24.2	23.4	24.4	24.7
4H	2H	19.7	21.0	20.0	21.2	21.5	21.0	22.2	21.3	22.5	22.7
	3H	20.7	21.8	21.0	22.0	22.3	22.1	23.1	22.4	23.4	23.7
	4H	21.1	22.1	21.4	22.4	22.7	22.6	23.6	23.0	23.9	24.3
	6H	21.4	22.2	21.8	22.6	23.0	23.3	24.2	23.7	24.5	24.9
	8H	21.4	22.2	21.8	22.6	23.0	23.7	24.5	24.1	24.9	25.3
	12H	21.4	22.2	21.9	22.6	23.0	24.2	24.9	24.6	25.3	25.7
8H	4H	21.4	22.3	21.8	22.6	23.0	22.8	23.6	23.2	24.0	24.4
	6H	22.0	22.6	22.4	23.0	23.5	23.7	24.4	24.1	24.8	25.2
	8H	22.2	22.8	22.6	23.2	23.6	24.3	24.9	24.7	25.3	25.8
	12H	22.3	22.8	22.8	23.3	23.7	25.0	25.5	25.4	25.9	26.4
12H	4H	21.5	22.3	21.9	22.6	23.0	22.8	23.6	23.2	24.0	24.4
	6H	22.2	22.8	22.6	23.2	23.6	23.8	24.4	24.3	24.8	25.3
	8H	22.5	23.0	22.9	23.4	23.9	24.5	25.0	24.9	25.4	25.9
Variations with the observer position at spacings:											
S = 1.0H		+ 0.4 / - 0.5					+ 0.3 / - 0.3				
1.5H		+ 0.4 / - 0.7					+ 0.2 / - 0.4				
2.0H		+ 0.5 / - 1.0					+ 0.4 / - 0.4				

CIE Pub.117, 2415 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 3.1$ )

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2020-04-13

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.9950A P:23.88W PF:1.000 Freq:0Hz Lamp Flux:2415.21x1 lm		
NAME: LLS-LE25FPXBS1200-F20NW8X-DC	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*25*25	SERIAL No.:
MFR.: COLORS	SUR.:1200*25	Shielding Angle:

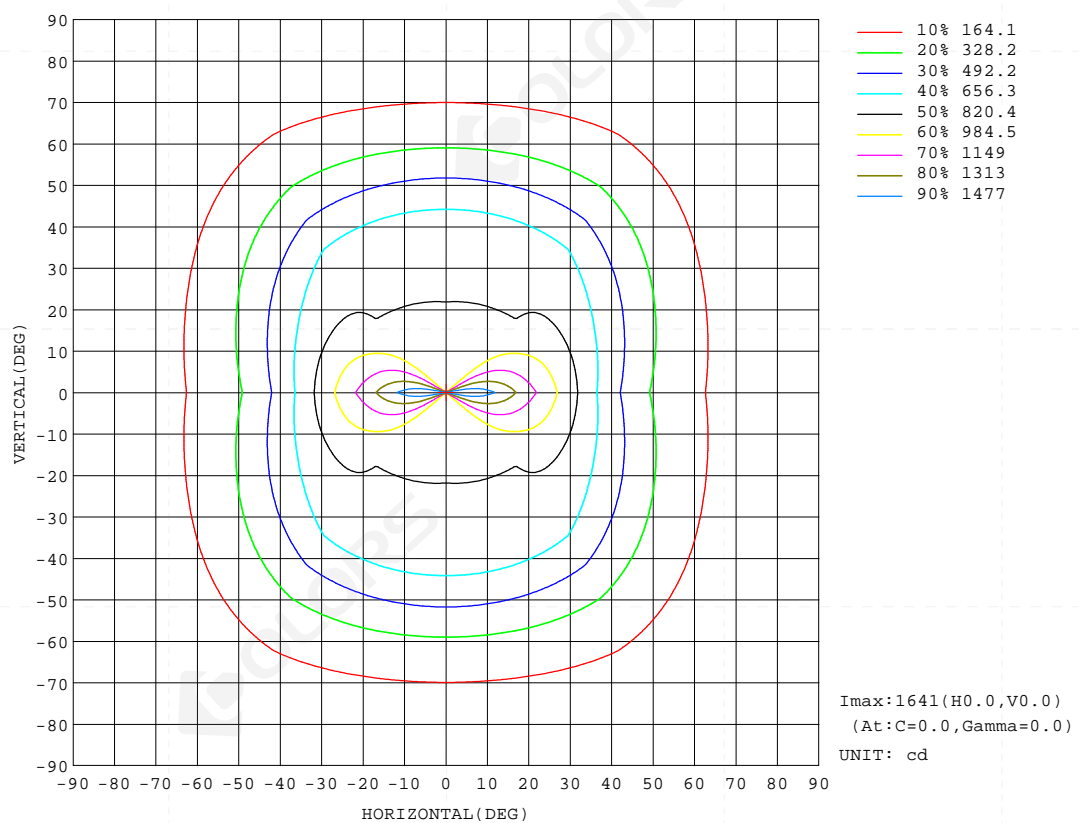
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	62	51	44	61	51	44	60	50	44	38
0.80	72	61	54	71	61	54	69	60	54	47
1.00	80	70	63	79	69	63	77	70	62	56
1.25	87	77	71	85	76	70	83	75	69	63
1.50	91	82	76	90	81	75	87	80	74	67
2.00	97	90	84	96	89	83	92	86	82	74
2.50	101	94	88	99	92	87	95	90	85	78
3.00	104	98	92	102	96	91	98	93	89	81
4.00	107	102	98	105	100	96	101	97	94	85
5.00	109	105	101	107	103	100	103	99	96	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2020-04-13

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:24.00V I:0.9950A P:23.88W PF:1.000 Freq:0Hz Lamp Flux:2415.21x1 lm		
NAME: LLS-LE25FPXBS1200-F20NW8X-DC	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*25*25	SERIAL No.:
MFR.: COLORS	SUR.:1200*25	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2020-04-13

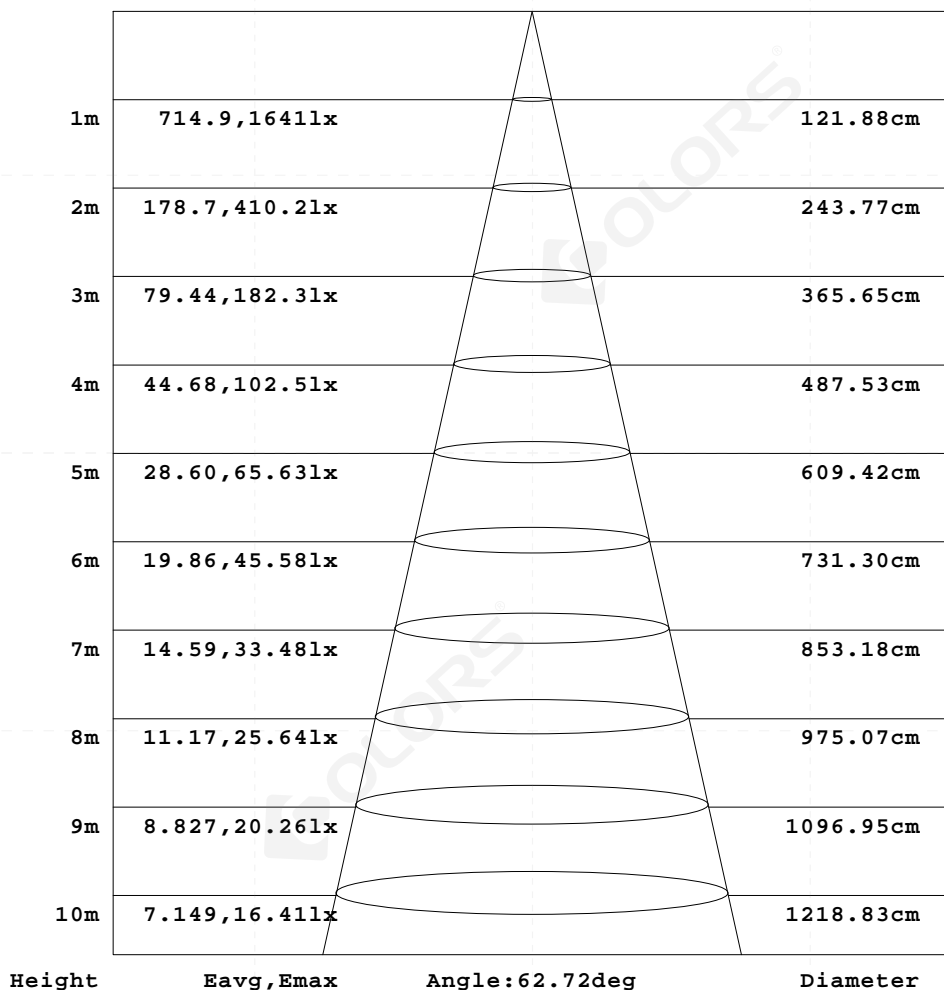
Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:24.00V I:0.9950A P:23.88W PF:1.000 Freq:0Hz Lamp Flux:2415.21x1 lm		
NAME: LLS-LE25FPXBS1200-F20NW8X-DC	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*25*25	SERIAL No.:
MFR.: COLORS	SUR.:1200*25	Shielding Angle:

Flux out:877.0 lm



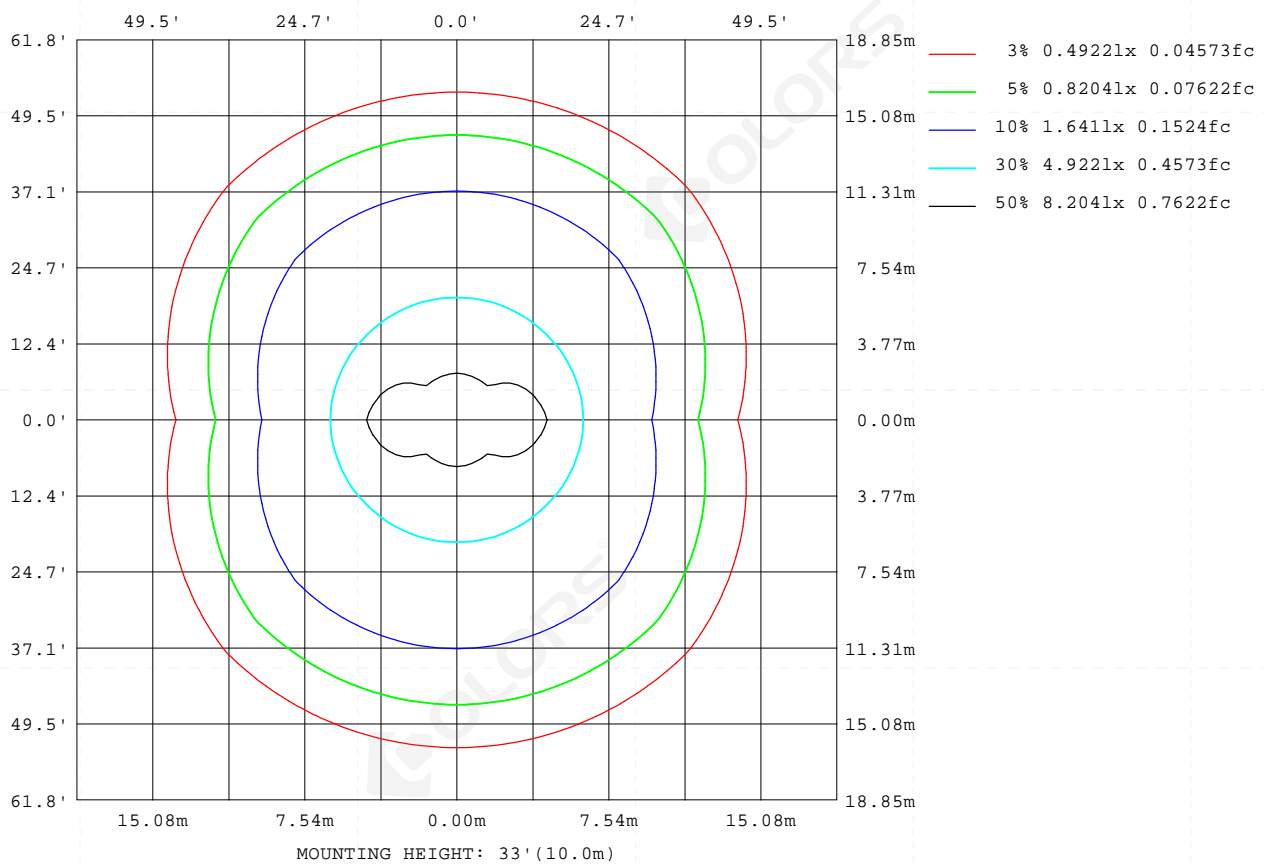
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JYH  
Test Date: 2020-04-13

g Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 10.950m [K=1.0000]  
Remarks:

ISOLUX DIAGRAM

Test:U:24.00V I:0.9950A P:23.88W PF:1.000 Freq:0Hz Lamp Flux:2415.21x1 lm		
NAME: LLS-LE25FPXBS1200-F20NW8X-DC	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*25*25	SERIAL No.:
MFR.: COLORS	SUR.:1200*25	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2020-04-13

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks:

### LED Avg.L Report

Test:U:24.00V I:0.9950A P:23.88W PF:1.000 Freq:0Hz Lamp Flux:2415.21x1 lm		
NAME: LLS-LE25FPXBS1200-F20NW8X-DC	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*25*25	SERIAL No.:
MFR.: COLORS	SUR.:1200*25	Shielding Angle:

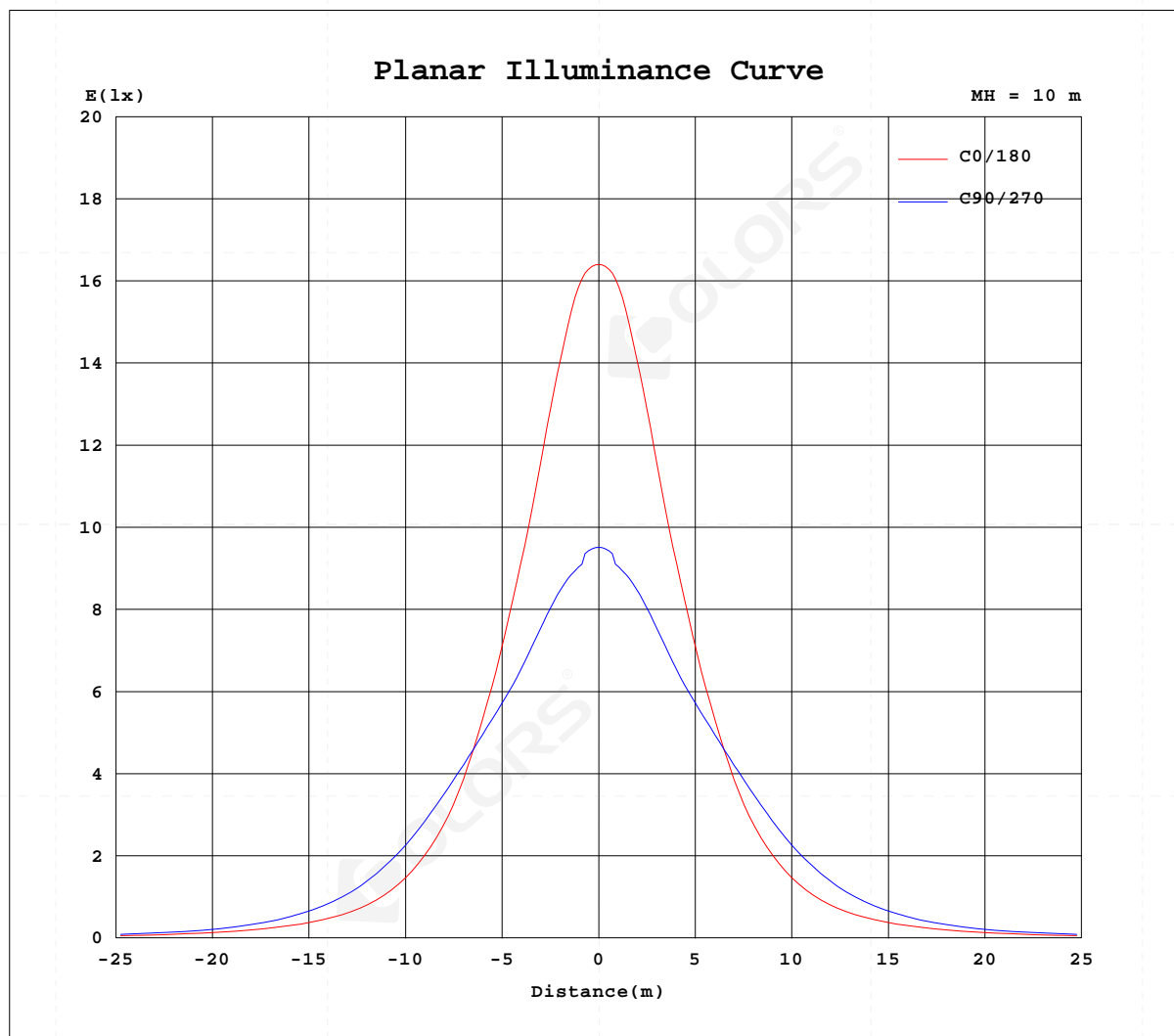
AvgL	cd/m2
L_0~180(65)av	11327
L_0~180(75)av	8667
L_0~180(85)av	2709
L_90~270(65)av	17241
L_90~270(75)av	15561
L_90~270(85)av	28350
L_45(65)av	17210
L_45(75)av	15021
L_45(85)av	27823

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2020-04-13

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JYH  
Test Date: 2020-04-13

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 10.950m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.9950A P:23.88W PF:1.000 Freq:0Hz Lamp Flux:2415.21x1 lm		
NAME: LLS-LE25FPXBS1200-F20NW8X-DC	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*25*25	SERIAL No.:
MFR.: COLORS	SUR.:1200*25	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	45	90	135	180	225	270	315										
0	1641	916	952	916	1641	916	952	916										
5	1624	914	921	914	1624	914	921	914										
10	1526	899	905	899	1526	899	905	899										
15	1380	868	873	868	1380	868	873	868										
20	1204	838	834	838	1204	838	834	838										
25	1048	818	805	818	1048	818	805	818										
30	881	801	791	801	881	801	791	801										
35	706	773	768	773	706	773	768	773										
40	547	724	724	724	547	724	724	724										
45	418	640	641	640	418	640	641	640										
50	312	528	535	528	312	528	535	528										
55	240	414	418	414	240	414	418	414										
60	188	308	308	308	188	308	308	308										
65	144	218	219	218	144	218	219	218										
70	103	160	164	160	103	160	164	160										
75	67.3	117	121	117	67.3	117	121	117										
80	32.8	91.6	94.3	91.6	32.8	91.6	94.3	91.6										
85	7.08	72.7	74.1	72.7	7.08	72.7	74.1	72.7										
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
120	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										
130	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										
140	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										
150	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										
160	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										
170	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										
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2020-04-13

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.950m [K=1.0000]  
Remarks: