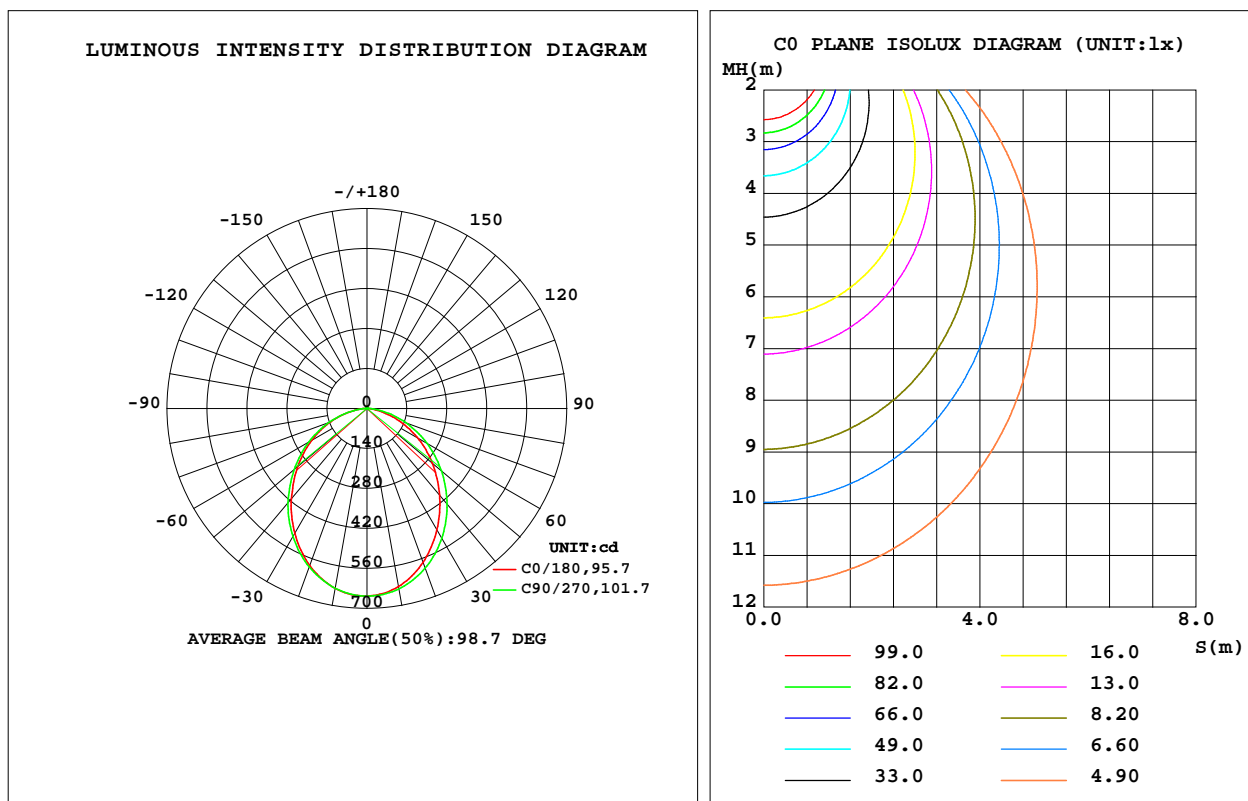


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.9388A P:22.53W PF:1.000 Freq:0Hz Lamp Flux:1619.19x1 lm		
NAME: LLS-LE6935FDXSS1200(F)	TYPE:	WEIGHT:
SPEC.:LLS-LE6935FDXSS1200(F)-F20SW8D-DC	DIM.: 1200*69*35mm	SERIAL No.:
MFR.: COLORS	SUR.:1200*69mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 71.87 lm/W			
MODELLS-LE6935FDXSS1200(F)		I _{max} (cd)	657.7	S/MH(C0/180)	1.13
NOMINAL POWER(W)	22	LOR(%)	100.0	S/MH(C90/270)	1.18
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1619.2	h UP,DN(C0-180)	0.6,49.3
NOMINAL FLUX(lm)	1619.19	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.5,49.5
LAMPS INSIDE	1	h up(%)	1.2	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	h down(%)	98.8	CIBSE SHR MAX	1.30



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-11-05

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:

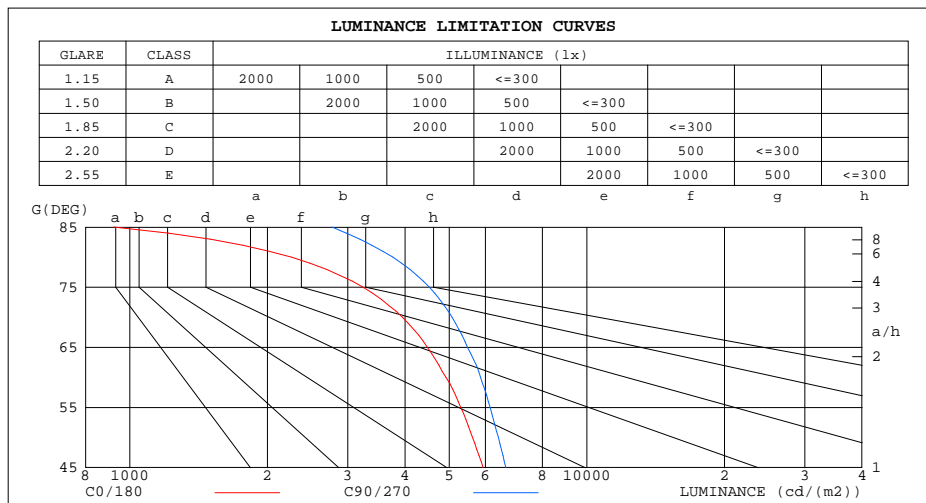
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	633.4	639.4	641.8	641.1	639.9	639.1	639.2	636.6	0- 10	61.85	61.85	3.82,3.82
20	573.9	587.5	595.5	590.9	585.7	587.1	590.8	582.4	10- 20	173.6	235.4	14.5,14.5
30	490.2	510.2	524.3	515.1	505.6	510.0	518.4	503.6	20- 30	253.4	488.8	30.2,30.2
40	395.5	418.9	436.7	424.8	412.3	419.4	430.5	411.7	30- 40	290.9	779.7	48.2,48.2
50	299.3	319.1	340.9	326.7	316.5	323.7	332.5	314.6	40- 50	285.4	1065	65.8,65.8
60	203.8	222.5	242.4	231.6	224.1	229.2	235.5	218.5	50- 60	244.8	1310	80.9,80.9
70	111.9	128.0	143.6	138.6	134.4	135.5	139.6	123.9	60- 70	176.5	1486	91.8,91.8
80	32.46	43.24	54.13	53.31	52.29	51.61	51.88	41.09	70- 80	93.10	1580	97.6,97.6
90	0.8219	1.175	1.627	1.684	1.052	0.7318	0.3467	0.3619	80- 90	20.45	1600	98.8,98.8
100	1.276	1.363	1.316	1.229	0.7287	0.7663	0.8634	0.9341	90-100	0.9263	1601	98.9,98.9
110	2.289	2.126	1.975	1.839	1.551	1.534	1.887	1.802	100-110	1.522	1602	99,99
120	3.300	3.122	3.052	2.620	2.418	2.350	2.875	2.523	110-120	2.312	1605	99.1,99.1
130	4.253	3.842	3.919	3.380	3.260	3.192	3.735	3.292	120-130	2.865	1608	99.3,99.3
140	5.109	4.555	4.715	4.276	4.102	4.188	4.449	4.053	130-140	3.106	1611	99.5,99.5
150	5.911	5.178	5.562	5.370	4.924	5.409	5.325	4.861	140-150	3.041	1614	99.7,99.7
160	6.913	6.142	6.625	6.700	5.973	6.765	6.580	6.029	150-160	2.700	1616	99.8,99.8
170	8.100	7.475	7.527	7.929	7.189	7.928	7.529	7.467	160-170	1.995	1618	100,100
180	8.096	8.456	8.222	8.416	8.102	8.416	8.256	8.403	170-180	0.7512	1619	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:2020-11-05

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:

LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.9388A P:22.53W PF:1.000 Freq:0Hz Lamp Flux:1619.19x1 lm		
NAME: LLS-LE6935FDXSS1200(F)	TYPE:	WEIGHT:
SPEC.:LLS-LE6935FDXSS1200(F)-F20SW8D-DC	DIM.: 1200*69*35mm	SERIAL No.:
MFR.: COLORS	SUR.:1200*69mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	923	2771
80	2258	3765
75	3239	4522
70	3953	5072
65	4481	5480
60	4922	5856
55	5301	6148
50	5624	6405
45	5936	6648

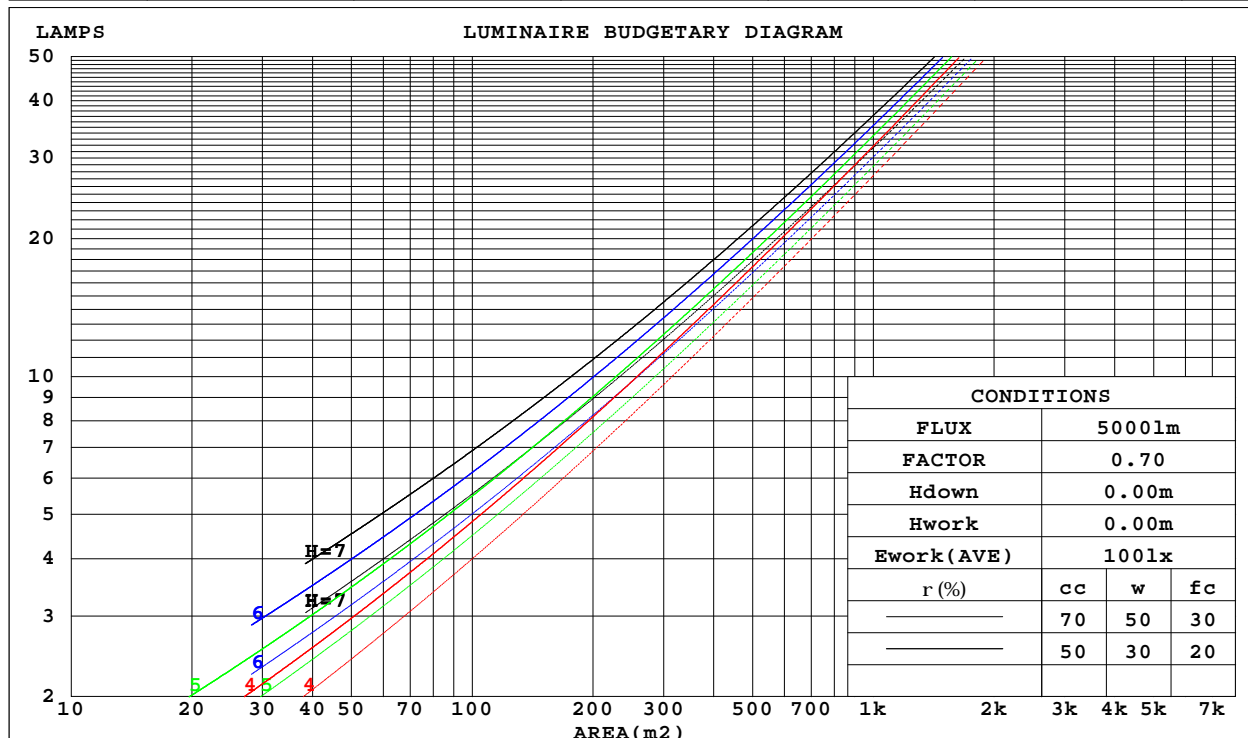
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-11-05

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:0.9388A P:22.53W PF:1.000 Freq:0Hz Lamp Flux:1619.19x1 lm		
NAME: LLS-LE6935FDXSS1200(F)	TYPE:	WEIGHT:
SPEC.:LLS-LE6935FDXSS1200(F)-F20SW8D-DC	DIM.: 1200*69*35mm	SERIAL No.:
MFR.: COLORS	SUR.:1200*69mm	Shielding Angle:

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	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:2020-11-05

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:

WEC AND CCEC

Test:U:24.00V I:0.9388A P:22.53W PF:1.000 Freq:0Hz Lamp Flux:1619.19x1 lm		
NAME: LLS-LE6935FDXSS1200(F)	TYPE:	WEIGHT:
SPEC.:LLS-LE6935FDXSS1200(F)-F20SW8D-DC	DIM.: 1200*69*35mm	SERIAL No.:
MFR.: COLORS	SUR.:1200*69mm	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	.291	.165	.052	.284	.162	.051	.270	.155	.049	.257	.148	.048	.245	.142	.046	
2.0	.277	.152	.047	.270	.149	.046	.258	.143	.045	.247	.138	.043	.236	.134	.042	
3.0	.258	.137	.041	.252	.135	.041	.241	.131	.040	.231	.127	.039	.222	.123	.038	
4.0	.239	.124	.037	.234	.122	.036	.224	.119	.036	.216	.116	.035	.207	.113	.034	
5.0	.222	.113	.033	.217	.112	.033	.209	.109	.032	.201	.106	.032	.194	.103	.031	
6.0	.207	.104	.030	.203	.102	.029	.195	.100	.029	.188	.098	.029	.181	.095	.028	
7.0	.193	.095	.027	.189	.094	.027	.182	.092	.027	.176	.090	.026	.170	.088	.026	
8.0	.180	.088	.025	.177	.087	.025	.171	.085	.024	.165	.084	.024	.160	.082	.024	
9.0	.169	.082	.023	.167	.081	.023	.161	.080	.023	.156	.078	.022	.151	.077	.022	
10.0	.160	.077	.021	.157	.076	.021	.152	.074	.021	.147	.073	.021	.143	.072	.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	.200	.200	.200	.171	.171	.171	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.188	.165	.145	.161	.142	.125	.110	.098	.086	.063	.057	.050	.020	.018	.016	
2.0	.179	.141	.109	.154	.122	.094	.105	.084	.066	.061	.049	.039	.019	.016	.013	
3.0	.171	.123	.085	.147	.106	.074	.101	.074	.052	.058	.043	.031	.019	.014	.010	
4.0	.164	.110	.069	.140	.095	.060	.097	.066	.042	.056	.039	.025	.018	.013	.008	
5.0	.156	.100	.058	.134	.086	.050	.092	.060	.035	.054	.035	.021	.017	.012	.007	
6.0	.149	.091	.049	.128	.079	.043	.088	.055	.030	.051	.032	.018	.017	.011	.006	
7.0	.142	.084	.043	.123	.073	.038	.085	.051	.027	.049	.030	.016	.016	.010	.005	
8.0	.136	.078	.039	.117	.068	.034	.081	.048	.024	.047	.028	.014	.015	.009	.005	
9.0	.130	.073	.035	.112	.064	.031	.078	.045	.022	.045	.026	.013	.015	.009	.004	
10.0	.125	.069	.032	.107	.060	.028	.075	.042	.020	.043	.025	.012	.014	.008	.004	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-11-05

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:0.9388A P:22.53W PF:1.000 Freq:0Hz Lamp Flux:1619.19x1 lm											
NAME: LLS-LE6935FDXSS1200(F)						TYPE:		WEIGHT:			
SPEC.:LLS-LE6935FDXSS1200(F)-F20SW8D-DC						DIM.: 1200*69*35mm		SERIAL No.:			
MFR.: COLORS						SUR.:1200*69mm		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	16.7	18.1	16.9	18.3	18.6	17.3	18.7	17.6	18.9	19.2	
	3H	17.8	19.2	18.1	19.4	19.7	18.6	20.0	19.0	20.2	20.5
	4H	18.2	19.5	18.5	19.7	20.0	19.2	20.4	19.5	20.7	21.0
	6H	18.4	19.6	18.7	19.9	20.2	19.5	20.7	19.8	21.0	21.3
	8H	18.4	19.5	18.7	19.8	20.1	19.6	20.7	19.9	21.0	21.3
	12H	18.3	19.5	18.7	19.8	20.1	19.6	20.7	20.0	21.0	21.3
4H	2H	17.3	18.5	17.6	18.8	19.1	17.7	19.0	18.1	19.3	19.6
	3H	18.6	19.7	19.0	20.0	20.3	19.3	20.4	19.6	20.7	21.0
	4H	19.1	20.1	19.5	20.4	20.8	19.9	20.9	20.3	21.3	21.6
	6H	19.3	20.2	19.7	20.6	21.0	20.3	21.2	20.8	21.6	22.0
	8H	19.4	20.2	19.8	20.6	21.0	20.5	21.3	20.9	21.7	22.1
	12H	19.3	20.1	19.8	20.5	20.9	20.5	21.3	21.0	21.7	22.1
8H	4H	19.3	20.1	19.7	20.5	20.9	20.1	20.9	20.5	21.3	21.7
	6H	19.7	20.3	20.1	20.8	21.2	20.6	21.3	21.0	21.7	22.2
	8H	19.7	20.3	20.2	20.8	21.3	20.8	21.4	21.2	21.8	22.3
	12H	19.7	20.3	20.2	20.7	21.2	20.9	21.4	21.4	21.9	22.4
12H	4H	19.3	20.1	19.7	20.5	20.9	20.0	20.8	20.5	21.2	21.6
	6H	19.7	20.3	20.2	20.7	21.2	20.6	21.2	21.1	21.6	22.1
	8H	19.8	20.3	20.3	20.8	21.3	20.8	21.3	21.3	21.8	22.3
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.2					
1.5H	+ 0.2 / - 0.4					+ 0.1 / - 0.3					
2.0H	+ 0.3 / - 0.5					+ 0.3 / - 0.4					

CIE Pub.117, 1619 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.7)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-11-05

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:0.9388A P:22.53W PF:1.000 Freq:0Hz Lamp Flux:1619.19x1 lm		
NAME: LLS-LE6935FDXSS1200(F)	TYPE:	WEIGHT:
SPEC.:LLS-LE6935FDXSS1200(F)-F20SW8D-DC	DIM.: 1200*69*35mm	SERIAL No.:
MFR.: COLORS	SUR.:1200*69mm	Shielding Angle:

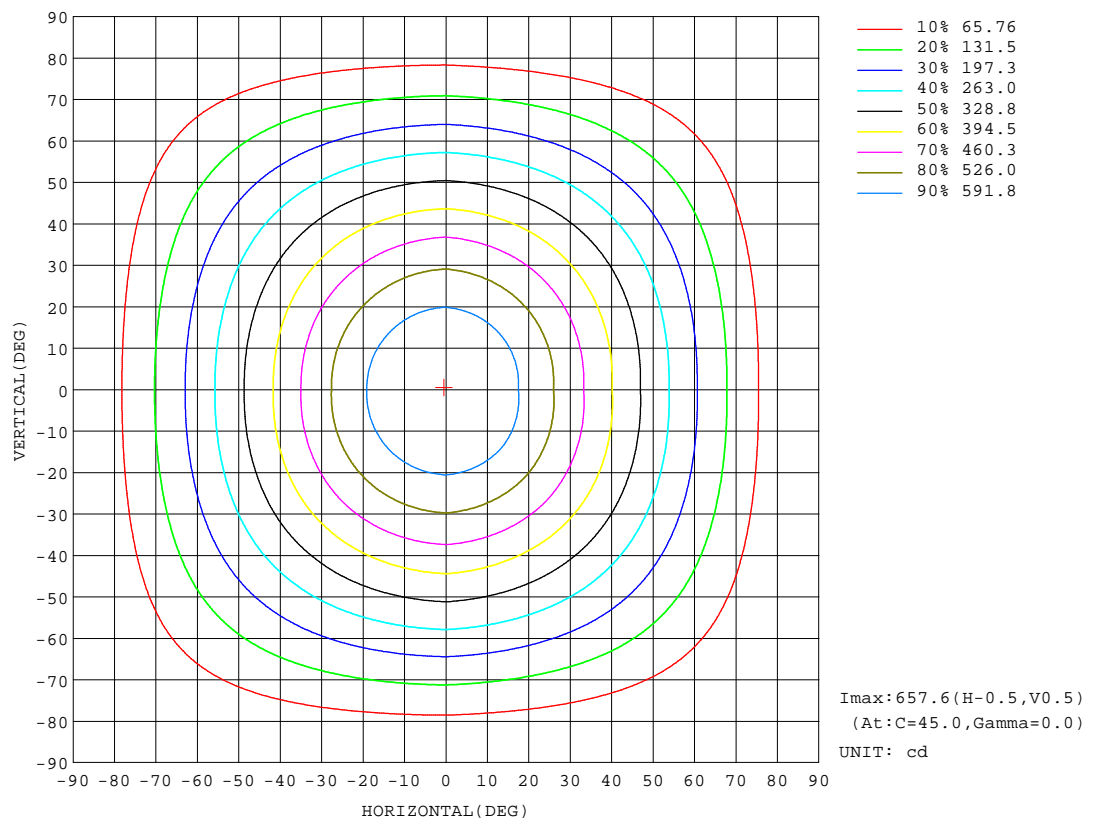
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	48	42	59	48	41	58	48	41	35
0.80	70	58	51	68	58	51	67	57	51	44
1.00	78	67	60	77	67	60	74	68	59	52
1.25	85	75	68	83	74	67	80	72	67	59
1.50	90	80	74	88	79	73	85	77	72	64
2.00	96	88	82	94	87	81	91	84	79	72
2.50	100	92	87	98	91	86	94	88	84	75
3.00	103	97	91	101	95	90	97	92	88	79
4.00	107	101	97	104	100	96	100	96	93	84
5.00	109	105	101	107	103	99	102	99	96	86
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:2020-11-05

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:0.9388A P:22.53W PF:1.000 Freq:0Hz Lamp Flux:1619.19x1 lm		
NAME: LLS-LE6935FDXSS1200(F)	TYPE:	WEIGHT:
SPEC.:LLS-LE6935FDXSS1200(F)-F20SW8D-DC	DIM.: 1200*69*35mm	SERIAL No.:
MFR.: COLORS	SUR.:1200*69mm	Shielding Angle:



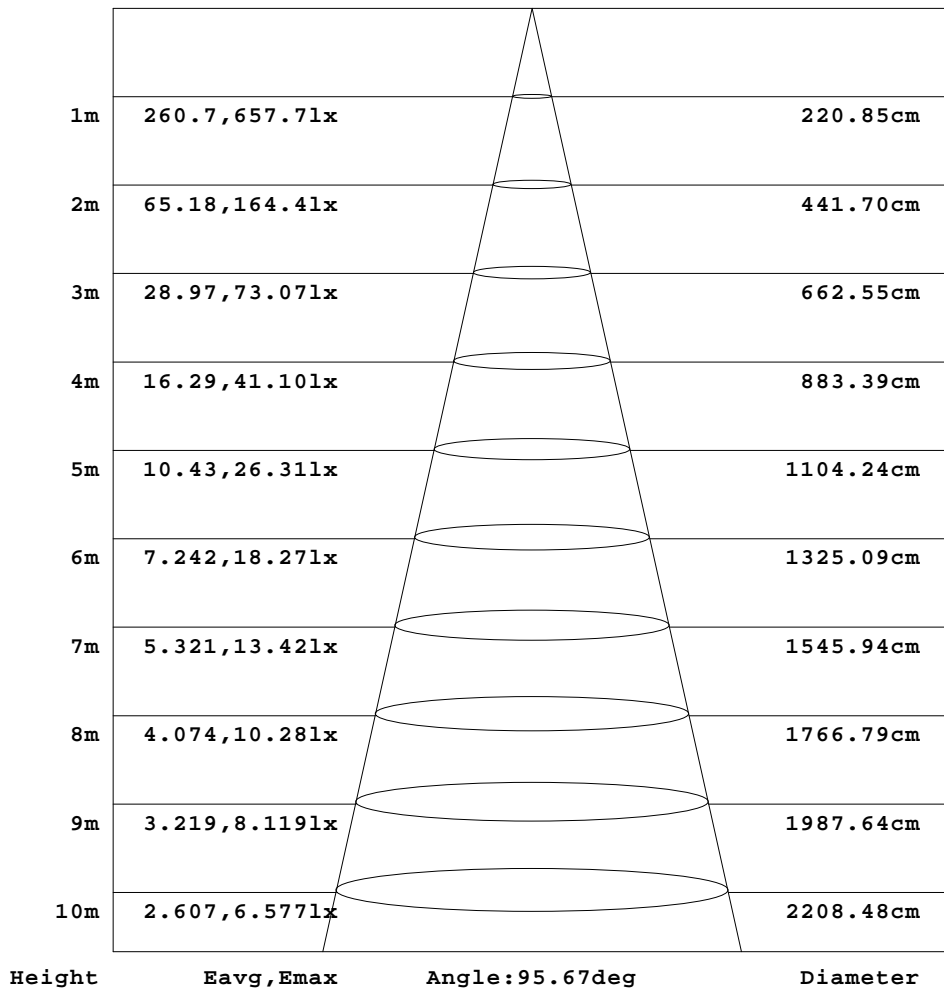
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JYH
Test Date: 2020-11-05

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:0.9388A P:22.53W PF:1.000 Freq:0Hz Lamp Flux:1619.19x1 lm		
NAME: LLS-LE6935FDXSS1200(F)	TYPE:	WEIGHT:
SPEC.:LLS-LE6935FDXSS1200(F)-F20SW8D-DC	DIM.: 1200*69*35mm	SERIAL No.:
MFR.: COLORS	SUR.:1200*69mm	Shielding Angle:

Flux out:1010 lm



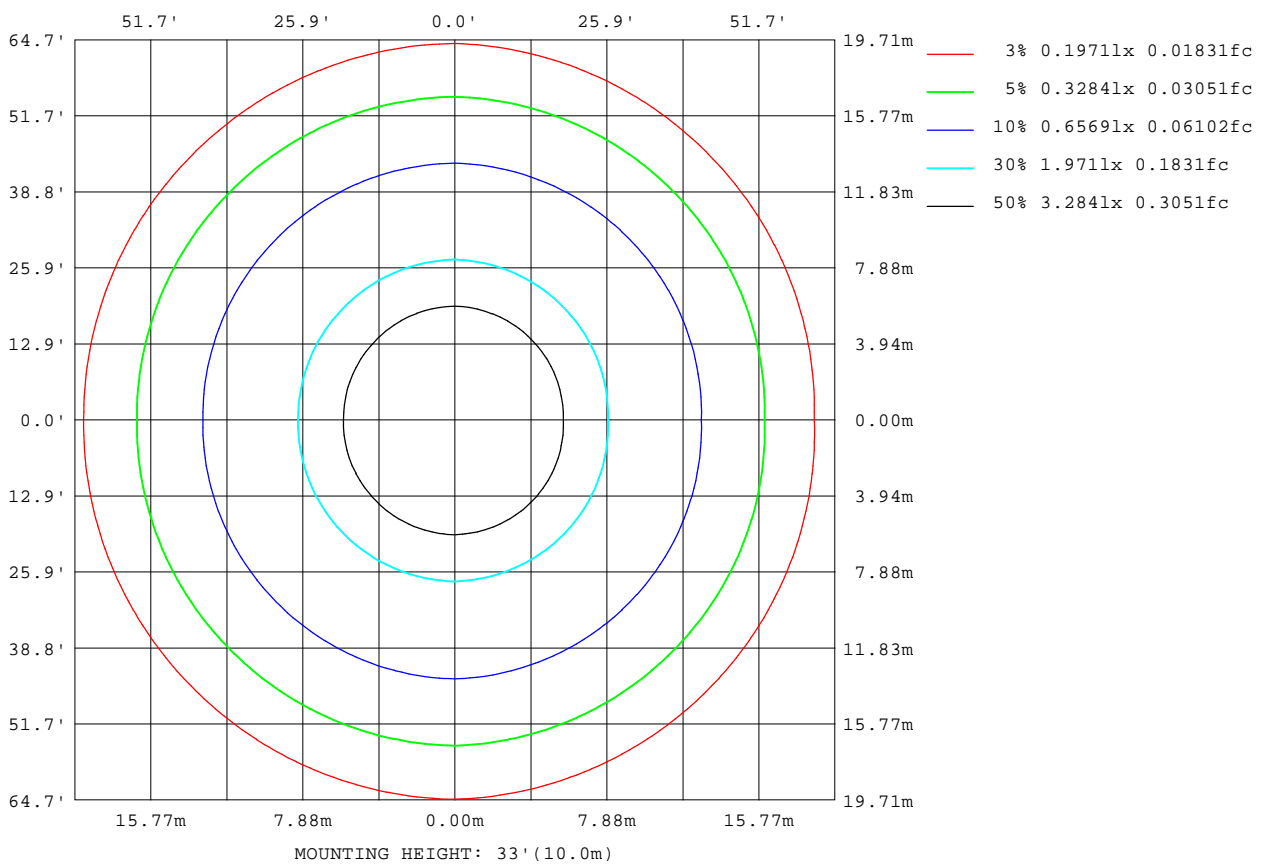
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JYH
Test Date: 2020-11-05

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:

ISOLUX DIAGRAM

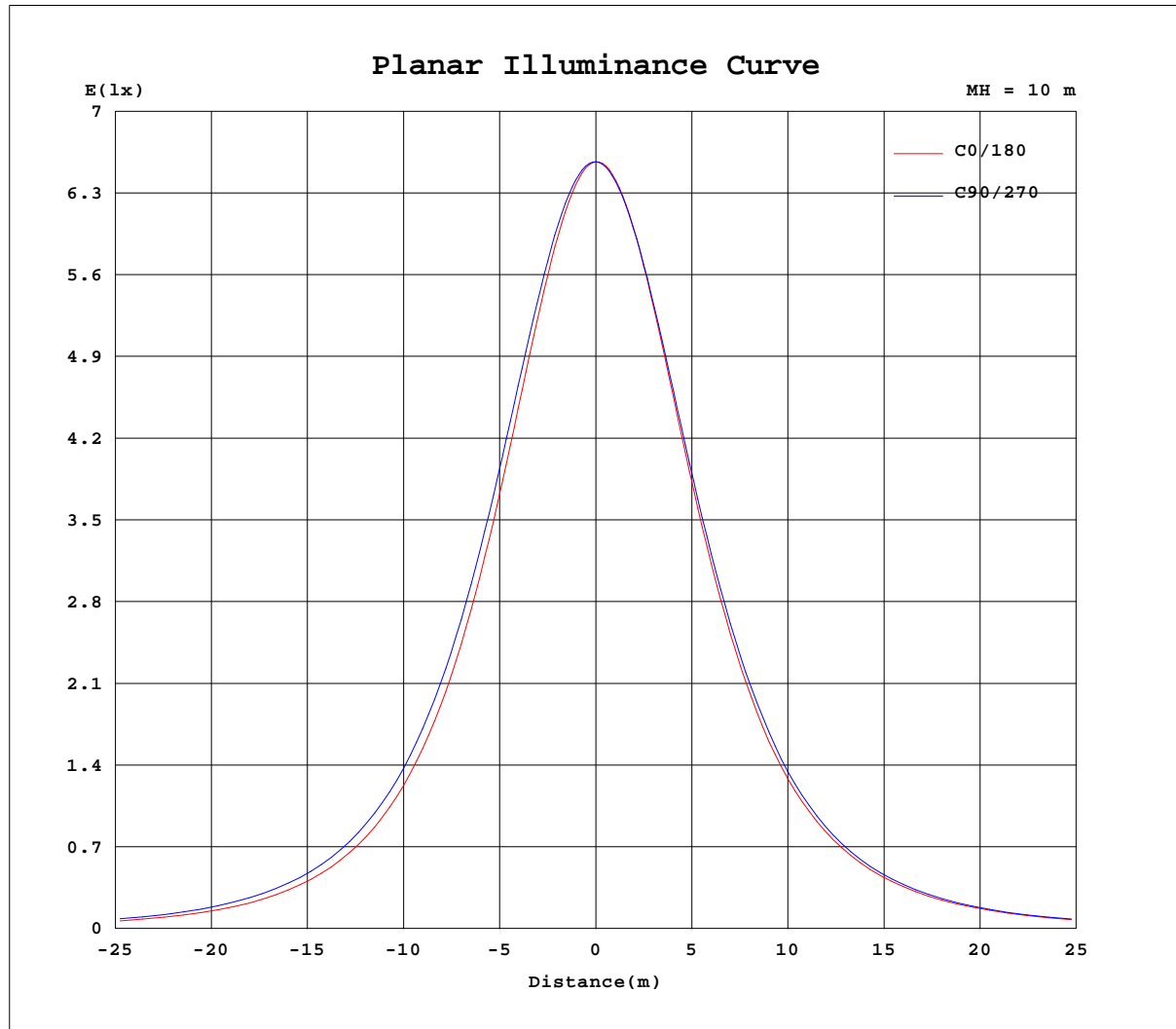
Test:U:24.00V I:0.9388A P:22.53W PF:1.000 Freq:0Hz Lamp Flux:1619.19x1 lm		
NAME: LLS-LE6935FDXSS1200(F)	TYPE:	WEIGHT:
SPEC.:LLS-LE6935FDXSS1200(F)-F20SW8D-DC	DIM.: 1200*69*35mm	SERIAL No.:
MFR.: COLORS	SUR.:1200*69mm	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2020-11-05

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: 2020-11-05

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:0.9388A P:22.53W PF:1.000 Freq:0Hz Lamp Flux:1619.19x1 lm		
NAME: LLS-LE6935FDXSS1200(F)	TYPE:	WEIGHT:
SPEC.:LLS-LE6935FDXSS1200(F)-F20SW8D-DC	DIM.: 1200*69*35mm	SERIAL No.:
MFR.: COLORS	SUR.:1200*69mm	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	45	90	135	180	225	270	315										
0	657	658	657	657	657	658	657	657										
5	650	653	653	654	653	653	652	651										
10	633	639	642	641	640	639	639	637										
15	607	617	622	620	617	617	618	613										
20	574	588	595	591	586	587	591	582										
25	534	551	563	555	548	551	557	545										
30	490	510	524	515	506	510	518	504										
35	443	465	482	471	460	466	476	459										
40	396	419	437	425	412	419	430	412										
45	348	368	389	374	363	372	381	363										
50	299	319	341	327	316	324	333	315										
55	252	271	292	279	270	276	284	267										
60	204	223	242	232	224	229	235	219										
65	157	175	192	185	179	181	187	170										
70	112	128	144	139	134	136	140	124										
75	69.4	83.4	96.9	94.2	91.7	91.7	93.7	80.1										
80	32.5	43.2	54.1	53.3	52.3	51.6	51.9	41.1										
85	6.66	12.7	20.0	20.0	19.8	18.9	18.6	11.5										
90	0.82	1.18	1.63	1.68	1.05	0.73	0.35	0.36										
95	0.93	1.19	1.36	1.12	0.39	0.40	0.52	0.51										
100	1.28	1.36	1.32	1.23	0.73	0.77	0.86	0.93										
105	1.74	1.67	1.48	1.47	1.14	1.15	1.36	1.40										
110	2.29	2.13	1.98	1.84	1.55	1.53	1.89	1.80										
115	2.80	2.65	2.54	2.23	1.98	1.92	2.43	2.16										
120	3.30	3.12	3.05	2.62	2.42	2.35	2.88	2.52										
125	3.80	3.50	3.50	2.99	2.84	2.76	3.32	2.90										
130	4.25	3.84	3.92	3.38	3.26	3.19	3.73	3.29										
135	4.70	4.20	4.35	3.80	3.67	3.67	4.10	3.68										
140	5.11	4.56	4.71	4.28	4.10	4.19	4.45	4.05										
145	5.52	4.86	5.07	4.79	4.53	4.77	4.83	4.45										
150	5.91	5.18	5.56	5.37	4.92	5.41	5.33	4.86										
155	6.38	5.59	6.06	6.01	5.43	6.07	5.96	5.39										
160	6.91	6.14	6.63	6.70	5.97	6.76	6.58	6.03										
165	7.48	6.92	7.13	7.44	6.56	7.50	7.09	6.91										
170	8.10	7.47	7.53	7.93	7.19	7.93	7.53	7.47										
175	7.98	7.98	7.92	8.14	7.62	8.19	7.96	7.96										
180	8.10	8.46	8.22	8.42	8.10	8.42	8.26	8.40										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-11-05

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: