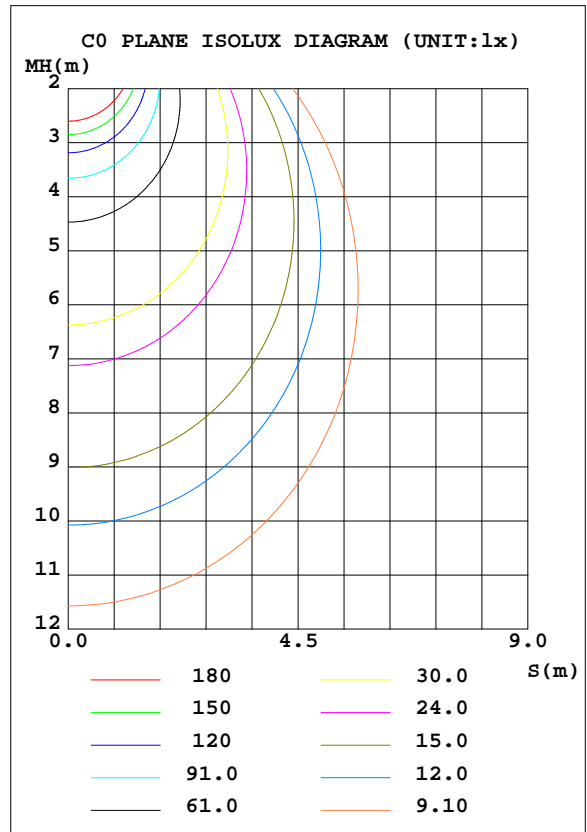
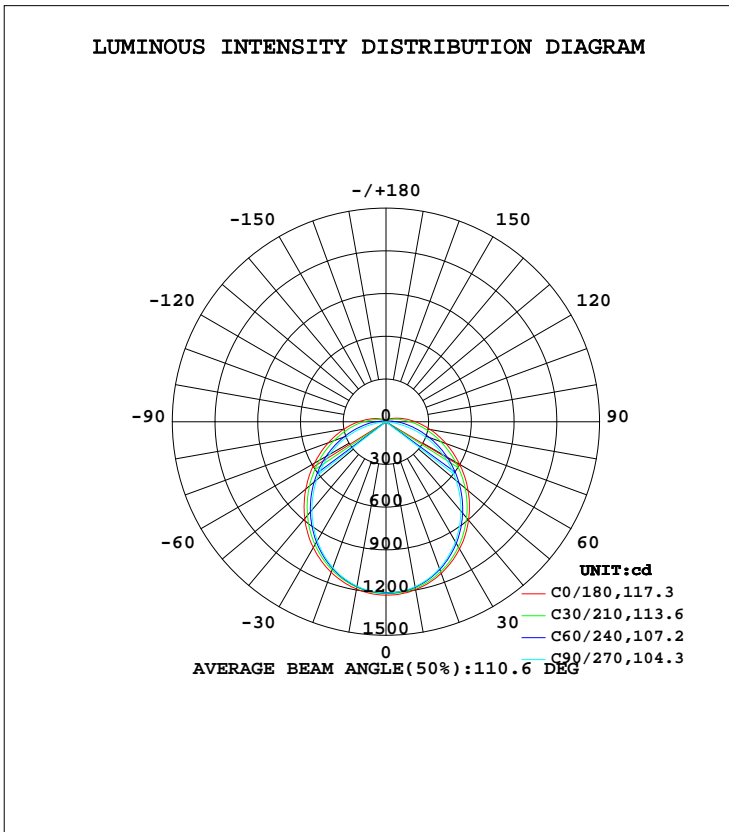


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.85V I:0.1591A P:35.224W PF:0.9632 Freq:49.99Hz Lamp Flux:3759.74x1 lm		
NAME: F1145-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FILUX	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 106.74 lm/W			
MODEL		I _{max} (cd)	1218	S/MH(C0/180)	1.25
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.20
RATED VOLTAGE(V)		TOTAL FLUX(lm)	3759.7	η UP, DN(C0-180)	2.9,47.4
NOMINAL FLUX(lm)	3759.74	CIE CLASS	DIRECT	η UP, DN(C180-360)	2.7,47.0
LAMPS INSIDE	1	η up(%)	5.6	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)		η down(%)	94.4	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:24DEG
 Operators:苏盛笙
 Test Date:2019-09-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.11
 Humidity:58%
 Test Distance:15.050m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

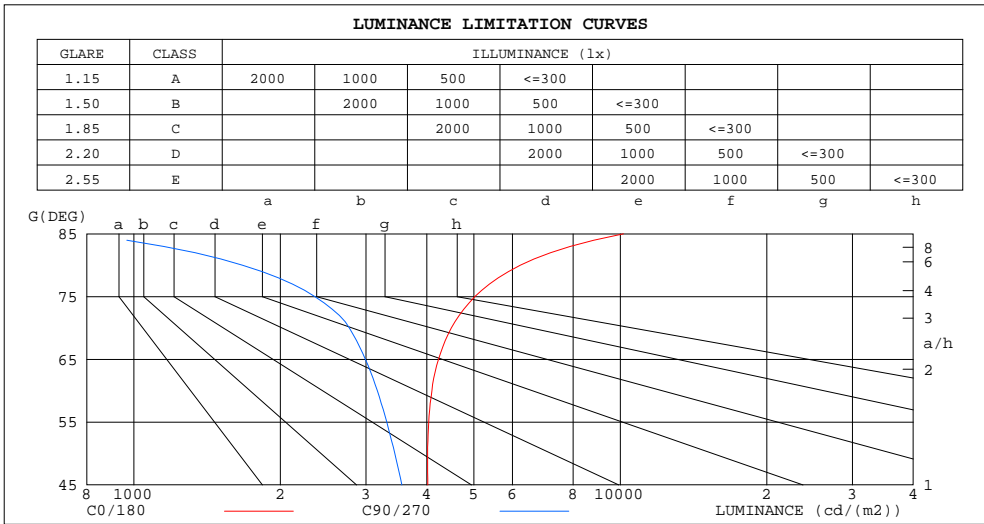
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	1197	1183	1177	1172	1193	1178	1173	1175	0- 10	113.8	113.8	3.03,3.03
20	1134	1113	1097	1099	1125	1102	1091	1103	10- 20	324.0	437.7	11.6,11.6
30	1032	1001	973.9	985.5	1021	986.7	965.5	991.9	20- 30	485.8	923.5	24.6,24.6
40	901.8	858.9	818.5	842.7	887.7	842.1	809.0	851.4	30- 40	578.8	1502	40,40
50	752.8	698.4	644.6	682.4	735.8	680.2	636.1	692.6	40- 50	595.5	2098	55.8,55.8
60	597.8	529.9	461.6	516.5	579.2	512.6	455.3	527.1	50- 60	542.1	2640	70.2,70.2
70	448.2	366.7	276.5	356.8	430.4	352.4	271.9	367.3	60- 70	435.5	3075	81.8,81.8
80	315.3	225.4	84.64	220.0	299.7	214.1	86.98	229.3	70- 80	300.4	3376	89.8,89.8
90	207.2	123.3	1.770	119.5	193.4	113.8	1.498	128.2	80- 90	172.9	3549	94.4,94.4
100	127.7	64.45	1.711	60.26	115.4	56.39	1.643	68.06	90-100	93.59	3642	96.9,96.9
110	75.19	35.15	2.731	32.35	64.86	30.21	2.693	36.67	100-110	49.46	3692	98.2,98.2
120	46.04	22.38	3.849	20.35	38.24	19.18	3.859	23.18	110-120	27.27	3719	98.9,98.9
130	31.42	14.87	5.033	14.39	25.60	13.80	5.092	14.85	120-130	16.35	3735	99.4,99.4
140	21.61	11.09	6.149	10.80	17.30	10.67	6.195	11.00	130-140	10.29	3746	99.6,99.6
150	14.87	9.266	7.183	8.939	12.01	9.091	7.214	9.451	140-150	6.582	3752	99.8,99.8
160	10.85	8.620	8.022	8.275	9.351	8.613	7.987	8.859	150-160	4.203	3756	99.9,99.9
170	9.156	8.678	8.596	8.530	9.039	8.711	8.513	8.793	160-170	2.467	3759	100,100
180	9.072	8.768	8.678	8.670	9.039	8.711	8.661	8.735	170-180	0.8349	3760	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:24DEG
 Operators:苏盛笙
 Test Date:2019-09-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.11
 Humidity:58%
 Test Distance:15.050m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:229.85V I:0.1591A P:35.224W PF:0.9632 Freq:49.99Hz Lamp Flux:3759.74x1 lm		
NAME: F1145-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FILUX	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	10148	788
80	6228	1671
75	5023	2354
70	4494	2772
65	4228	2992
60	4100	3166
55	4038	3311
50	4016	3439
45	4020	3556

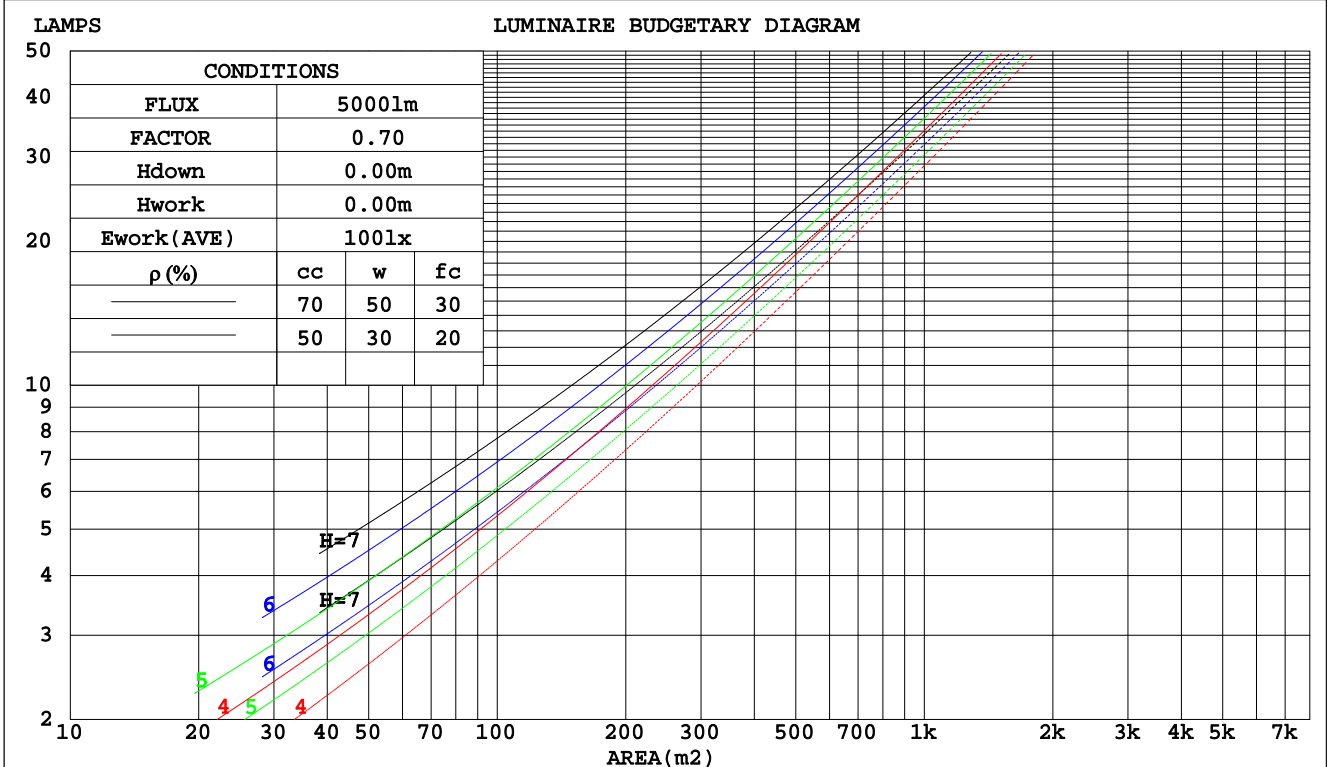
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 24DEG
 Operators: 苏盛笙
 Test Date: 2019-09-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.11
 Humidity: 58%
 Test Distance: 15.050m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.85V I:0.1591A P:35.224W PF:0.9632 Freq:49.99Hz Lamp Flux:3759.74x1 lm		
NAME: F1145-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FILUX	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.18	1.18	1.18	1.14	1.14	1.14	1.08	1.08	1.08	1.02	1.02	1.02	.97	.97	.97	.94
1.0	1.01	.96	.92	.98	.94	.90	.93	.89	.86	.88	.85	.82	.83	.81	.79	.76
2.0	.87	.80	.74	.85	.78	.73	.80	.75	.70	.76	.72	.68	.72	.69	.65	.63
3.0	.76	.68	.61	.74	.67	.60	.71	.64	.58	.67	.61	.57	.64	.59	.55	.53
4.0	.68	.59	.52	.66	.57	.51	.63	.55	.50	.60	.53	.48	.57	.51	.47	.45
5.0	.60	.51	.44	.59	.50	.44	.56	.49	.43	.53	.47	.42	.51	.45	.41	.39
6.0	.54	.45	.39	.53	.44	.38	.51	.43	.37	.48	.42	.37	.46	.40	.36	.34
7.0	.49	.40	.34	.48	.40	.34	.46	.39	.33	.44	.37	.32	.42	.36	.32	.30
8.0	.45	.36	.30	.44	.36	.30	.42	.35	.30	.40	.34	.29	.39	.33	.29	.27
9.0	.41	.33	.27	.40	.32	.27	.39	.32	.27	.37	.31	.26	.36	.30	.26	.24
10.0	.38	.30	.25	.37	.30	.25	.36	.29	.24	.35	.28	.24	.33	.28	.23	.22



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 24DEG
 Operators: 苏盛笙
 Test Date: 2019-09-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.11
 Humidity: 58%
 Test Distance: 15.050m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:229.85V I:0.1591A P:35.224W PF:0.9632 Freq:49.99Hz Lamp Flux:3759.74x1 lm		
NAME: F1145-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FILUX	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.342	.195	.062	.333	.190	.060	.317	.182	.058	.302	.174	.056	.288	.167	.054	
2.0	.309	.169	.052	.301	.166	.051	.286	.159	.049	.272	.153	.048	.260	.147	.046	
3.0	.280	.149	.045	.273	.146	.044	.260	.141	.043	.247	.136	.042	.236	.131	.040	
4.0	.255	.133	.039	.249	.130	.039	.237	.126	.038	.226	.122	.037	.216	.117	.036	
5.0	.234	.119	.035	.229	.117	.034	.218	.114	.033	.208	.110	.033	.199	.106	.032	
6.0	.216	.108	.031	.211	.107	.031	.202	.103	.030	.193	.100	.029	.184	.097	.029	
7.0	.201	.099	.028	.196	.098	.028	.187	.095	.027	.179	.092	.027	.172	.089	.026	
8.0	.187	.091	.026	.183	.090	.025	.175	.087	.025	.168	.085	.024	.161	.082	.024	
9.0	.175	.084	.024	.171	.083	.023	.164	.081	.023	.157	.079	.023	.151	.077	.022	
10.0	.164	.079	.022	.161	.078	.022	.154	.075	.021	.148	.073	.021	.142	.072	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.233	.233	.233	.199	.199	.199	.136	.136	.136	.078	.078	.078	.025	.025	.025	
1.0	.226	.199	.175	.193	.171	.151	.132	.117	.104	.076	.068	.061	.024	.022	.020	
2.0	.218	.175	.139	.187	.151	.120	.128	.104	.084	.074	.061	.049	.024	.020	.016	
3.0	.210	.158	.117	.180	.136	.101	.124	.095	.071	.071	.055	.042	.023	.018	.014	
4.0	.202	.145	.101	.174	.125	.088	.119	.087	.062	.069	.051	.037	.022	.017	.012	
5.0	.195	.135	.091	.167	.117	.079	.115	.081	.056	.067	.048	.033	.021	.016	.011	
6.0	.187	.126	.083	.161	.110	.072	.111	.077	.051	.064	.045	.030	.021	.015	.010	
7.0	.180	.120	.077	.155	.104	.067	.107	.073	.048	.062	.043	.028	.020	.014	.009	
8.0	.174	.114	.073	.150	.099	.064	.103	.069	.045	.060	.041	.027	.019	.013	.009	
9.0	.168	.109	.070	.144	.095	.061	.100	.067	.043	.058	.039	.026	.019	.013	.009	
10.0	.162	.105	.067	.139	.091	.058	.097	.064	.041	.056	.038	.025	.018	.012	.008	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 24DEG
 Operators: 苏盛笙
 Test Date: 2019-09-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.11
 Humidity: 58%
 Test Distance: 15.050m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:229.85V I:0.1591A P:35.224W PF:0.9632 Freq:49.99Hz Lamp Flux:3759.74x1 lm		
NAME: F1145-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FILUX	SUR.:	Shielding Angle:

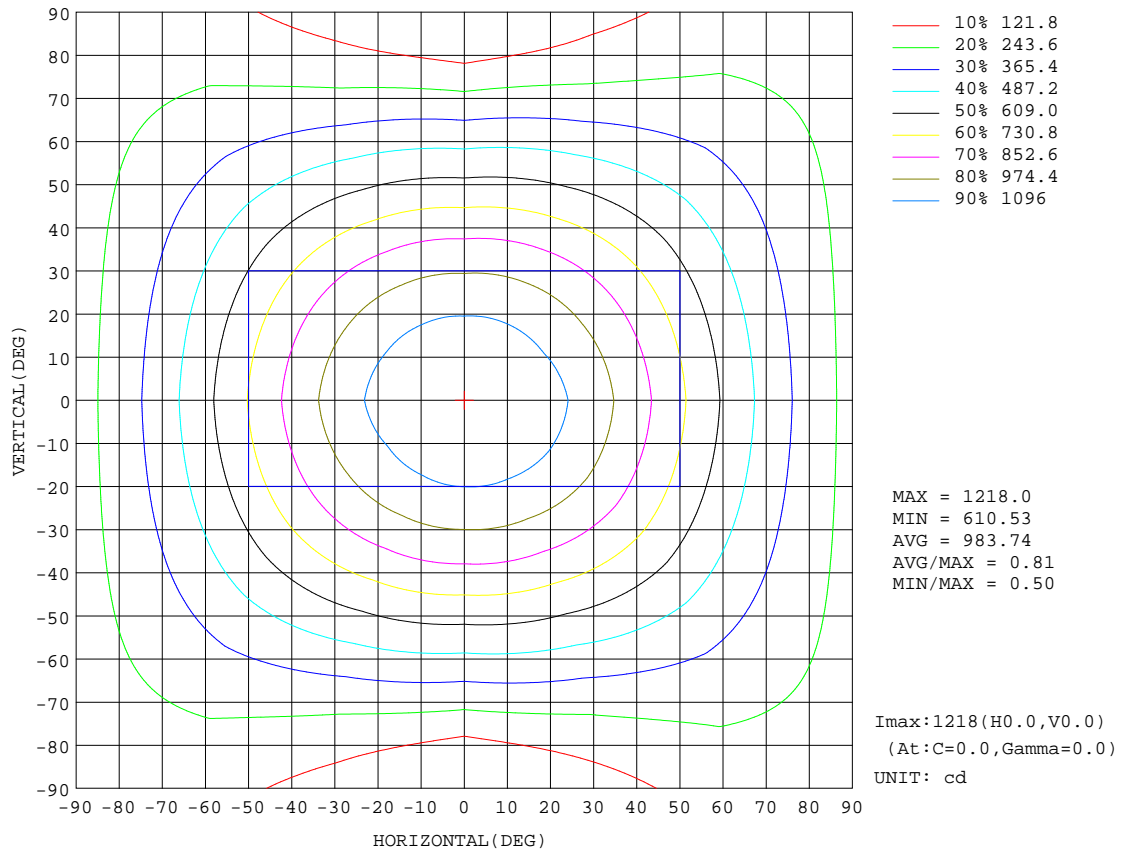
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	55	43	36	54	43	36	52	42	35	29
0.80	64	52	45	63	52	44	61	51	44	37
1.00	72	61	53	71	60	53	68	61	52	44
1.25	79	68	60	78	67	60	74	65	59	51
1.50	84	74	66	82	72	65	79	70	64	56
2.00	91	82	75	89	80	74	85	78	72	63
2.50	95	87	80	93	85	79	88	82	76	67
3.00	99	91	85	96	89	83	91	85	81	71
4.00	103	96	91	100	94	89	95	90	86	75
5.00	106	100	95	103	97	93	97	93	89	78
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 24DEG
 Operators: 苏盛笙
 Test Date: 2019-09-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.11
 Humidity: 58%
 Test Distance: 15.050m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:229.85V I:0.1591A P:35.224W PF:0.9632 Freq:49.99Hz Lamp Flux:3759.74x1 lm		
NAME: F1145-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FILUX	SUR.:	Shielding Angle:

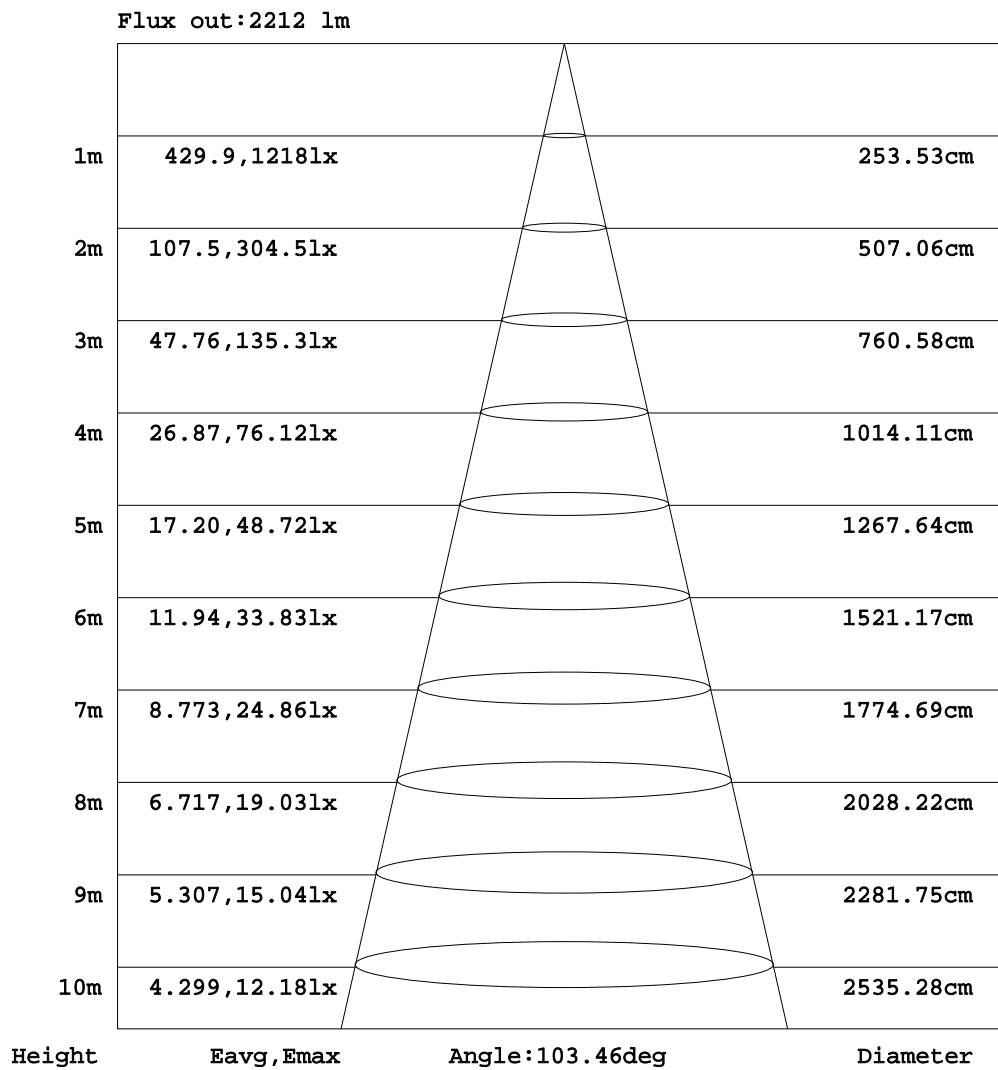


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 24DEG
 Operators: 苏盛笙
 Test Date: 2019-09-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.11
 Humidity: 58%
 Test Distance: 15.050m [K=1.0000]
 Remarks:

AAI Figure

Test:U:229.85V I:0.1591A P:35.224W PF:0.9632 Freq:49.99Hz Lamp Flux:3759.74x1 lm		
NAME: F1145-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FILUX	SUR.:	Shielding Angle:



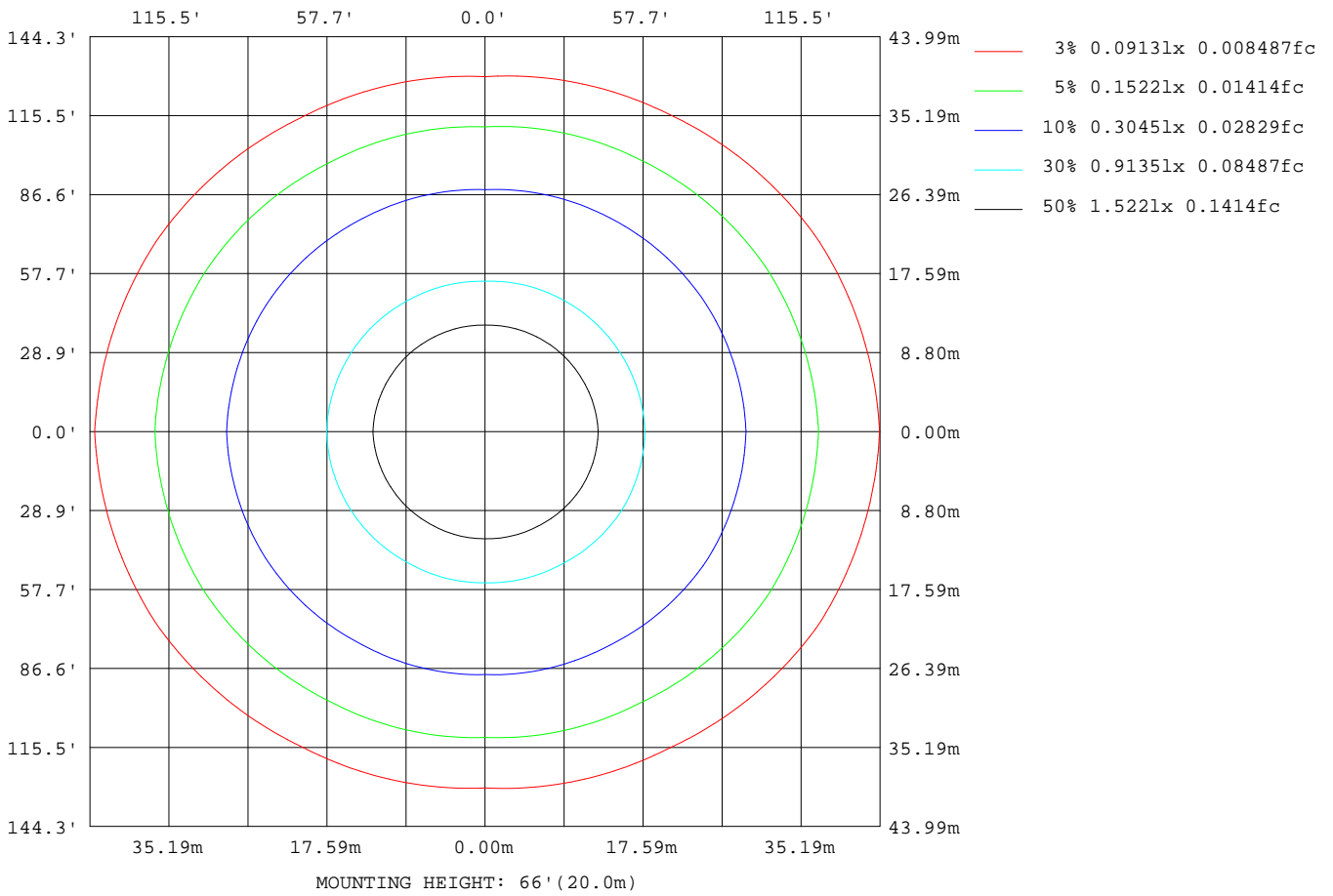
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:24DEG
 Operators:苏盛笙
 Test Date:2019-09-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.11
 Humidity:58%
 Test Distance:15.050m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:229.85V I:0.1591A P:35.224W PF:0.9632 Freq:49.99Hz Lamp Flux:3759.74x1 lm		
NAME: F1145-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FILUX	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 24DEG
 Operators: 苏盛笙
 Test Date: 2019-09-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.11
 Humidity: 58%
 Test Distance: 15.050m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:229.85V I:0.1591A P:35.224W PF:0.9632 Freq:49.99Hz Lamp Flux:3759.74x1 lm		
NAME: F1145-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FILUX	SUR.:	Shielding Angle:

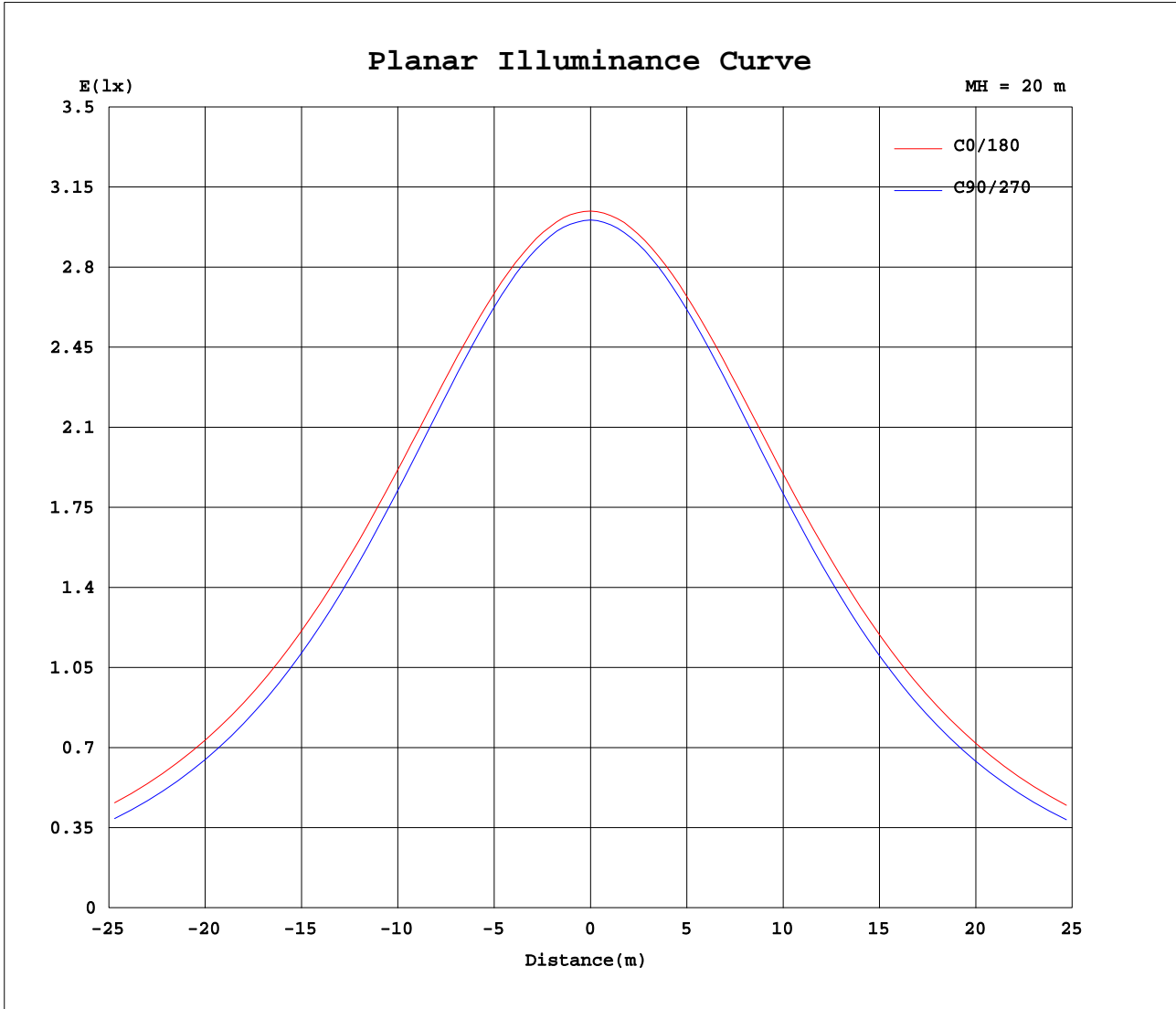
AvgL	cd/m2
L_0~180(65)av	4158
L_0~180(75)av	4912
L_0~180(85)av	9856
L_90~270(65)av	2970
L_90~270(75)av	2387
L_90~270(85)av	675
L_45(65)av	3566
L_45(75)av	3831
L_45(85)av	6705

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 24DEG
 Operators: 苏盛笙
 Test Date: 2019-09-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.11
 Humidity: 58%
 Test Distance: 15.050m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 24DEG
 Operators: 苏盛笙
 Test Date: 2019-09-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.11
 Humidity: 58%
 Test Distance: 15.050m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.85V I:0.1591A P:35.224W PF:0.9632 Freq:49.99Hz Lamp Flux:3759.74x1 lm		
NAME: F1145-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: FILUX	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	1218	1208	1204	1202	1199	1197	1218	1208	1204	1202	1199	1197							
5	1213	1203	1198	1197	1192	1190	1212	1201	1195	1194	1193	1192							
10	1197	1187	1180	1177	1172	1172	1193	1181	1175	1173	1174	1175							
15	1171	1160	1147	1143	1140	1142	1164	1150	1142	1138	1142	1147							
20	1134	1121	1104	1097	1095	1102	1125	1108	1096	1091	1098	1107							
25	1087	1073	1050	1040	1040	1053	1077	1056	1041	1033	1045	1059							
30	1032	1016	987	974	976	995	1021	997	976	966	982	1002							
35	970	952	915	899	904	930	958	931	904	890	911	938							
40	902	881	837	819	827	859	888	858	826	809	835	868							
45	829	805	755	733	745	783	813	781	744	725	754	794							
50	753	727	670	645	661	704	736	702	659	636	669	716							
55	675	645	583	554	575	624	657	621	572	546	583	636							
60	598	565	495	462	488	545	579	540	485	455	497	557							
65	521	485	408	369	402	467	504	463	399	363	411	480							
70	448	410	323	276	320	394	430	389	315	272	328	407							
75	379	340	244	178	243	326	362	321	238	183	251	338							
80	315	276	175	84.6	176	264	300	258	170	87.0	183	275							
85	258	219	118	20.0	121	208	243	203	114	14.3	127	220							
90	207	170	76.3	1.77	78.4	161	193	156	71.7	1.50	84.7	172							
95	164	130	48.0	1.30	49.0	121	151	117	43.5	1.20	55.1	132							
100	128	97.8	31.1	1.71	30.9	89.6	115	85.9	26.9	1.64	36.3	99.8							
105	98.3	72.0	22.1	2.20	21.2	65.5	86.8	62.4	18.7	2.13	24.5	72.6							
110	75.2	53.1	17.2	2.73	16.5	48.2	64.9	45.8	14.6	2.69	18.8	54.6							
115	58.1	40.9	13.8	3.27	13.6	36.5	49.0	35.0	12.1	3.27	14.7	42.5							
120	46.0	33.6	11.2	3.85	11.4	29.3	38.2	28.1	10.3	3.86	12.1	34.3							
125	37.7	26.0	9.70	4.46	9.92	24.1	31.1	23.3	9.07	4.47	10.2	25.5							
130	31.4	21.0	8.75	5.03	8.88	19.9	25.6	19.4	8.25	5.09	9.08	20.6							
135	26.1	17.4	8.22	5.57	8.20	16.5	21.1	16.2	7.79	5.65	8.41	16.8							
140	21.6	14.2	7.95	6.15	7.82	13.8	17.3	13.6	7.72	6.20	7.92	14.1							
145	17.9	12.1	7.89	6.69	7.68	11.7	14.3	11.7	7.76	6.74	8.09	12.0							
150	14.9	10.6	7.89	7.18	7.68	10.2	12.0	10.3	7.86	7.21	8.27	10.6							
155	12.3	9.66	7.95	7.63	7.68	9.18	10.4	9.42	8.02	7.64	8.40	9.73							
160	10.8	9.09	8.15	8.02	7.92	8.63	9.35	8.94	8.28	7.99	8.53	9.19							
165	9.82	8.86	8.32	8.35	8.18	8.60	9.01	8.73	8.53	8.30	8.68	8.96							
170	9.16	8.86	8.50	8.60	8.40	8.66	9.04	8.71	8.71	8.51	8.68	8.91							
175	9.07	8.86	8.56	8.68	8.53	8.68	9.04	8.71	8.71	8.63	8.68	8.88							
180	9.07	8.89	8.65	8.68	8.66	8.68	9.04	8.71	8.71	8.66	8.68	8.79							

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:24DEG
 Operators:苏盛笙
 Test Date:2019-09-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.11
 Humidity:58%
 Test Distance:15.050m [K=1.0000]
 Remarks: