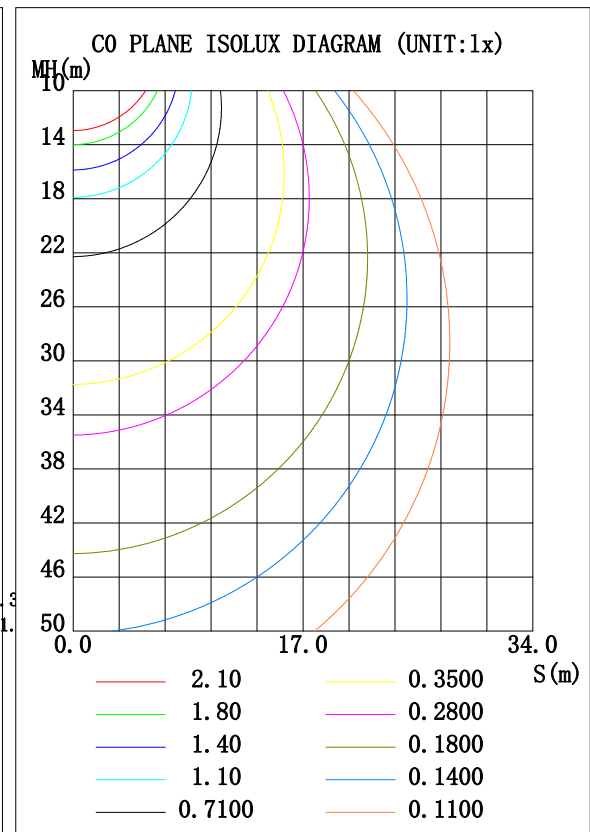
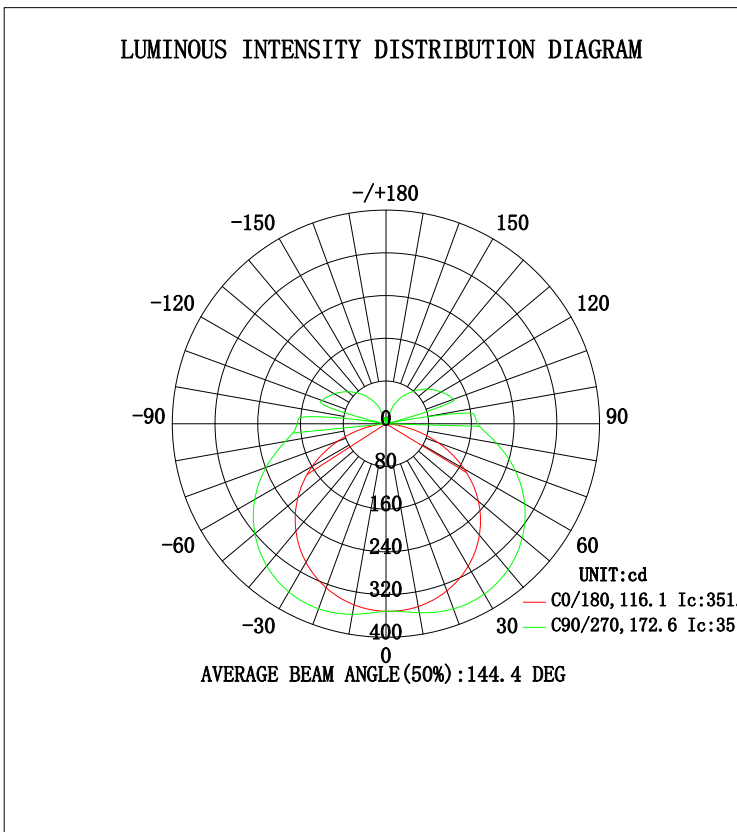


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.4V I:0.1707A P:22.25W PF:0.5419 Freq:50.00Hz Lamp Flux:1824.24x1 lm		
NAME: MLS1200CCT	TYPE:LED Lamp	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No:
MFR:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 82.01 lm/W
MODEL	W5447DMLS12004K	I <sub>max</sub> (cd)	370.1	S/MH(C0/180)	1.30	
NOMINAL POWER (W)	24	LOR (%)	100.0	S/MH(C90/270)	1.57	
RATED VOLTAGE (V)	240	TOTAL FLUX (lm)	1824.2	η UP, DN(C0-180)	8.7, 40.3	
NOMINAL FLUX (lm)	1824.24	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	9.4, 41.6	
LAMPS INSIDE	1	η up (%)	18.1	CIBSE SHR NOM	1.50	
TEST VOLTAGE (V)	240	η down (%)	81.9	CIBSE SHR MAX	1.55	



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Near  
 Test Date:2018-03-29

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
 Humidity:65.0%  
 Test Distance:2.686m [K=1.0000]  
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
5	349.1	353.1	356.1	354.0	350.6	351.7	353.2	350.8	0- 5	8.413	8.413	0.46, 0.46
10	344.4	355.0	362.3	356.9	347.5	353.9	359.3	352.1	5- 10	25.28	33.69	1.85, 1.85
15	337.1	355.4	366.8	358.3	341.7	355.6	365.1	352.9	10- 15	42.03	75.72	4.15, 4.15
20	327.1	353.4	368.8	357.4	333.0	355.7	369.0	352.1	15- 20	58.25	134.0	7.34, 7.34
25	314.7	349.1	367.7	353.9	321.8	353.6	370.1	349.0	20- 25	73.46	207.4	11.4, 11.4
30	299.7	342.1	363.7	347.6	308.0	348.9	368.2	343.6	25- 30	87.18	294.6	16.1, 16.1
35	282.3	332.4	357.0	338.7	291.4	341.6	363.4	335.5	30- 35	98.97	393.6	21.6, 21.6
40	262.3	320.1	347.4	327.0	272.2	331.5	356.0	324.9	35- 40	108.4	502.0	27.5, 27.5
45	240.1	305.2	335.2	312.6	250.3	318.8	345.8	311.7	40- 45	115.3	617.3	33.8, 33.8
50	215.5	287.9	320.5	295.6	225.9	303.3	332.9	296.0	45- 50	119.2	736.5	40.4, 40.4
55	188.7	268.1	303.3	276.0	198.8	285.4	317.5	277.8	50- 55	120.2	856.7	47.47
60	159.6	246.0	283.9	253.8	168.7	264.8	299.9	257.2	55- 60	117.9	974.6	53.4, 53.4
65	128.6	221.7	262.2	229.1	137.2	241.8	279.8	234.4	60- 65	112.5	1087	59.6, 59.6
70	96.36	195.8	238.9	203.0	104.2	216.9	257.9	209.7	65- 70	104.3	1191	65.3, 65.3
75	63.36	169.1	214.5	175.7	70.27	189.4	234.2	182.8	70- 75	93.51	1285	70.4, 70.4
80	32.80	143.5	191.7	149.5	37.91	162.8	210.2	156.8	75- 80	81.04	1366	74.9, 74.9
85	8.791	123.6	173.6	129.2	11.44	138.8	187.3	134.0	80- 85	68.77	1435	78.6, 78.6
90	0.2733	116.1	166.8	121.2	0.3636	123.6	171.9	120.6	85- 90	59.95	1495	81.9, 81.9
95	0.3968	41.74	151.1	89.45	0.3701	114.1	166.9	115.4	90- 95	54.28	1549	84.9, 84.9
100	0.7181	54.44	7.280	16.87	0.5912	10.50	69.27	6.073	95-100	28.34	1577	86.5, 86.5
105	0.9312	78.14	79.87	77.41	0.8667	75.84	24.09	76.28	100-105	16.89	1594	87.4, 87.4
110	0.9848	79.62	127.7	82.40	0.9279	82.85	134.5	83.44	105-110	35.30	1629	89.3, 89.3
115	0.9768	76.55	120.4	79.88	0.9610	81.51	127.6	81.62	110-115	36.51	1666	91.3, 91.3
120	0.8800	72.01	112.1	75.07	0.8547	78.27	119.5	77.68	115-120	33.50	1699	93.2, 93.2
125	0.8732	66.23	103.2	69.06	0.9223	72.74	110.6	72.50	120-125	29.74	1729	94.8, 94.8
130	0.7837	59.83	93.58	62.35	0.8862	65.30	101.2	65.85	125-130	25.55	1755	96.2, 96.2
135	0.8484	52.57	83.32	54.80	0.8502	58.52	90.52	58.66	130-135	21.10	1776	97.3, 97.3
140	0.8479	44.88	72.73	46.81	0.8348	52.01	79.03	51.40	135-140	16.19	1792	98.2, 98.2
145	0.7511	36.99	61.60	38.68	0.8216	41.84	68.13	43.01	140-145	12.62	1805	98.9, 98.9
150	0.7466	23.27	50.06	30.27	0.8880	34.99	56.83	33.34	145-150	9.550	1814	99.5, 99.5
155	0.7781	0.9863	38.30	2.963	0.9644	1.046	44.00	1.059	150-155	5.552	1820	99.8, 99.8
160	0.8052	11.19	8.180	11.15	1.033	12.68	9.576	14.13	155-160	2.564	1822	99.9, 99.9
165	0.8200	5.575	12.02	6.509	1.072	10.80	11.40	10.53	160-165	0.9888	1823	100, 100
170	0.8365	1.530	4.768	1.595	1.056	4.758	9.713	4.808	165-170	0.6961	1824	100, 100
175	0.8460	0.8369	0.7392	0.8240	0.9844	1.560	2.692	1.281	170-175	0.1653	1824	100, 100
180	0.9272	0.8867	0.8681	0.9031	0.9281	0.8876	0.8699	0.9055	175-180	0.0236	1824	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 617.3 lm

%lum = 33.8%

%lamp = 33.8%

Conical surface Flux(120deg): 974.6 lm

%lum = 53.4%

%lamp = 53.4%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Near  
 Test Date:2018-03-29

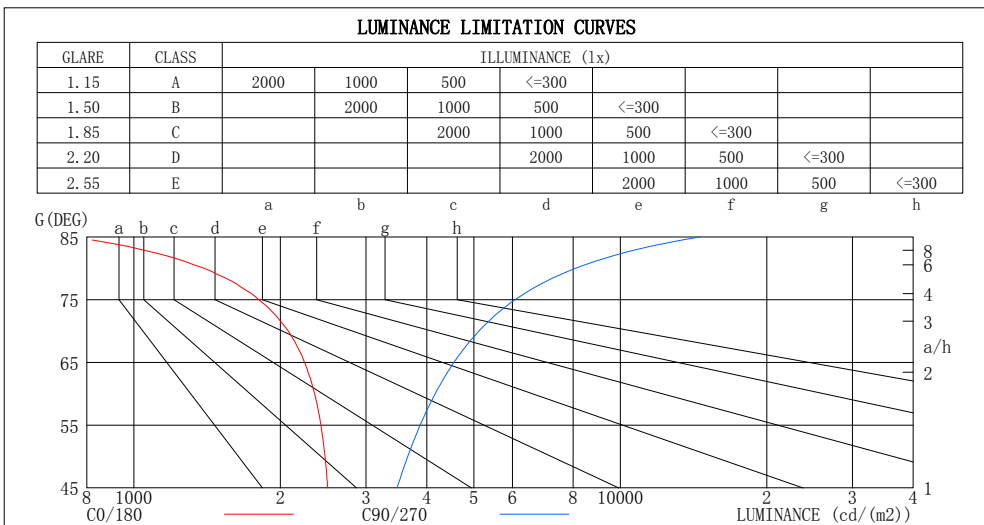
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
 Humidity:65.0%  
 Test Distance:2.686m [K=1.0000]  
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

LUMINANCE LIMITATION CURVES

Test:U:240.4V I:0.1707A P:22.25W PF:0.5419 Freq:50.00Hz Lamp Flux:1824.24x1 lm		
NAME: MLS1200CCT	TYPE:LED Lamp	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No:
MFR:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	743	14604
80	1392	8095
75	1804	6077
70	2077	5122
65	2243	4549
60	2353	4164
55	2424	3877
50	2471	3656
45	2503	3476

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Near  
 Test Date:2018-03-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
 Humidity:65.0%  
 Test Distance:2.686m [K=1.0000]  
 Remarks: File No.: WT-F-504-3206-01-A

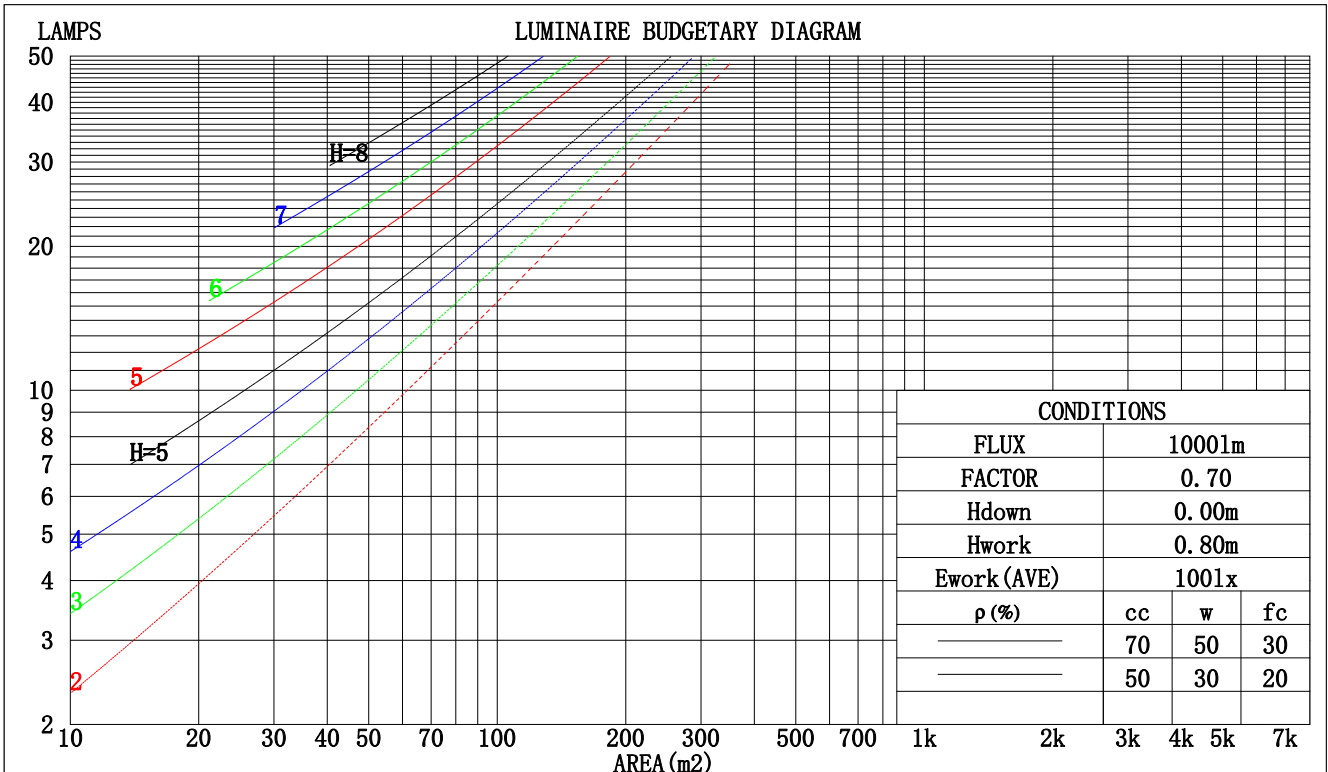
Checker: Near Gao

Assessor: Akin Xu

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.4V I:0.1707A P:22.25W PF:0.5419 Freq:50.00Hz Lamp Flux:1824.24x1 lm		
NAME: MLS1200CCT	TYPE:LED Lamp	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No:
MFR:	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																0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.15	1.15	1.15	1.10	1.10	1.10	1.01	1.01	1.01	.93	.93	.93	.85	.85	.85	.82
1.0	.96	.90	.86	.92	.87	.82	.84	.80	.76	.77	.74	.71	.70	.68	.66	.62
2.0	.82	.74	.67	.78	.71	.65	.72	.66	.61	.66	.61	.57	.60	.56	.53	.49
3.0	.71	.62	.54	.68	.59	.53	.62	.55	.49	.57	.51	.46	.52	.47	.43	.40
4.0	.62	.52	.45	.59	.51	.44	.54	.47	.41	.50	.44	.39	.46	.41	.36	.33
5.0	.55	.45	.38	.53	.44	.37	.48	.41	.35	.44	.38	.33	.41	.35	.31	.28
6.0	.49	.40	.33	.47	.38	.32	.43	.36	.30	.40	.33	.29	.37	.31	.27	.24
7.0	.44	.35	.29	.42	.34	.28	.39	.32	.26	.36	.30	.25	.33	.28	.24	.21
8.0	.40	.31	.25	.38	.30	.25	.36	.28	.23	.33	.27	.22	.30	.25	.21	.19
9.0	.36	.28	.22	.35	.27	.22	.33	.26	.21	.30	.24	.20	.28	.23	.19	.17
10.0	.34	.25	.20	.32	.25	.20	.30	.23	.19	.28	.22	.18	.26	.21	.17	.15



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Near  
 Test Date:2018-03-29

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
 Humidity:65.0%  
 Test Distance:2.686m [K=1.0000]  
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

WEC AND CCEC

Test:U:240.4V I:0.1707A P:22.25W PF:0.5419 Freq:50.00Hz Lamp Flux:1824.24x1 lm		
NAME: MLS1200CCT	TYPE:LED Lamp	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No:
MFR:	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	.384	.218	.069	.371	.212	.067	.347	.199	.064	.325	.188	.060	.305	.177	.057	
2.0	.334	.183	.056	.323	.178	.055	.301	.168	.052	.281	.158	.049	.263	.149	.047	
3.0	.298	.158	.047	.287	.154	.046	.268	.145	.044	.250	.137	.042	.233	.129	.040	
4.0	.268	.139	.041	.259	.135	.040	.241	.128	.038	.225	.121	.036	.209	.114	.035	
5.0	.244	.124	.036	.235	.121	.035	.219	.114	.034	.204	.108	.032	.190	.102	.031	
6.0	.224	.112	.032	.216	.109	.031	.201	.103	.030	.187	.097	.029	.175	.092	.027	
7.0	.206	.102	.029	.199	.099	.028	.186	.094	.027	.173	.089	.026	.161	.084	.025	
8.0	.191	.093	.026	.185	.091	.026	.172	.086	.025	.161	.081	.023	.150	.077	.022	
9.0	.178	.086	.024	.172	.084	.024	.161	.080	.023	.150	.075	.022	.140	.071	.021	
10.0	.167	.080	.022	.161	.078	.022	.151	.074	.021	.141	.070	.020	.131	.066	.019	

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	.328	.328	.328	.280	.280	.280	.191	.191	.191	.110	.110	.110	.035	.035	.035	
1.0	.324	.294	.267	.277	.253	.230	.190	.174	.159	.109	.101	.093	.035	.032	.030	
2.0	.318	.271	.233	.272	.234	.201	.186	.162	.140	.108	.094	.082	.034	.030	.027	
3.0	.310	.255	.211	.266	.220	.183	.183	.153	.128	.105	.089	.076	.034	.029	.025	
4.0	.303	.242	.197	.260	.210	.171	.179	.146	.120	.103	.086	.071	.033	.028	.023	
5.0	.295	.233	.187	.253	.201	.162	.175	.141	.115	.101	.083	.068	.033	.027	.022	
6.0	.288	.225	.180	.247	.195	.156	.171	.136	.111	.099	.080	.066	.032	.026	.022	
7.0	.281	.218	.175	.241	.189	.152	.167	.133	.108	.097	.078	.064	.031	.026	.021	
8.0	.274	.213	.171	.236	.184	.149	.163	.130	.106	.095	.076	.063	.031	.025	.021	
9.0	.268	.208	.168	.230	.180	.146	.160	.127	.104	.093	.075	.062	.030	.025	.021	
10.0	.262	.204	.165	.226	.177	.144	.156	.124	.102	.091	.074	.061	.030	.024	.020	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Near  
 Test Date:2018-03-29

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
 Humidity:65.0%  
 Test Distance:2.686m [K=1.0000]  
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

UGR(Unified Glare Rating) Table

Test:U:240.4V I:0.1707A P:22.25W PF:0.5419 Freq:50.00Hz Lamp Flux:1824.24x1 lm										
NAME: MLS1200CCT					TYPE:LED Lamp			WEIGHT:		
SPEC.:4000K					DIM.:			SERIAL No:		
MFR:					SUR.:			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	12.7	14.1	13.2	14.6	15.2	14.8	16.2	15.3	16.7	17.3
3H	14.2	15.5	14.8	16.0	16.6	17.4	18.6	17.9	19.2	19.8
4H	14.8	16.0	15.3	16.6	17.2	18.7	19.9	19.3	20.5	21.1
6H	15.1	16.3	15.7	16.8	17.5	20.1	21.3	20.7	21.9	22.5
8H	15.2	16.3	15.8	16.9	17.6	21.0	22.1	21.5	22.6	23.3
12H	15.2	16.3	15.8	16.9	17.5	21.9	23.0	22.5	23.6	24.2
4H 2H	13.9	15.1	14.5	15.7	16.3	15.4	16.6	16.0	17.2	17.8
3H	15.7	16.8	16.3	17.4	18.0	18.2	19.2	18.8	19.8	20.5
4H	16.4	17.4	17.1	18.0	18.8	19.7	20.7	20.3	21.3	22.0
6H	17.0	17.9	17.6	18.5	19.3	21.4	22.2	22.0	22.9	23.6
8H	17.2	18.0	17.8	18.6	19.4	22.3	23.1	23.0	23.8	24.5
12H	17.2	18.0	17.9	18.7	19.4	23.4	24.1	24.1	24.8	25.6
8H 4H	17.4	18.3	18.1	18.9	19.7	20.0	20.8	20.7	21.5	22.3
6H	18.4	19.1	19.1	19.7	20.5	22.0	22.7	22.7	23.4	24.2
8H	18.7	19.4	19.4	20.1	20.9	23.1	23.8	23.8	24.5	25.3
12H	19.0	19.6	19.7	20.3	21.1	24.5	25.0	25.2	25.7	26.6
12H 4H	17.7	18.5	18.4	19.2	19.9	20.0	20.8	20.7	21.5	22.3
6H	18.9	19.5	19.6	20.2	21.0	22.1	22.7	22.8	23.4	24.2
8H	19.4	20.0	20.2	20.7	21.6	23.4	23.9	24.1	24.6	25.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.5					+ 0.2 / - 0.4				

CIE Pub.117, 1824 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.1)

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Near  
 Test Date:2018-03-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
 Humidity:65.0%  
 Test Distance:2.686m [K=1.0000]  
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

UTILIZATION FACTORS TABLE

Test:U:240.4V I:0.1707A P:22.25W PF:0.5419 Freq:50.00Hz Lamp Flux:1824.24x1 lm		
NAME: MLS1200CCT	TYPE:LED Lamp	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No:
MFR:	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	47	35	27	46	34	27	44	33	27	20
0.80	56	43	35	55	43	35	52	41	34	26
1.00	64	51	43	62	50	42	59	51	41	32
1.25	71	59	50	69	57	49	64	55	48	38
1.50	77	64	56	74	63	55	69	59	52	42
2.00	84	73	65	81	71	63	75	67	60	48
2.50	89	78	71	85	76	69	79	71	65	52
3.00	92	83	76	89	80	74	82	75	70	56
4.00	97	89	83	93	86	80	86	80	75	61
5.00	100	93	88	96	90	85	88	83	79	64
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Near  
 Test Date:2018-03-29

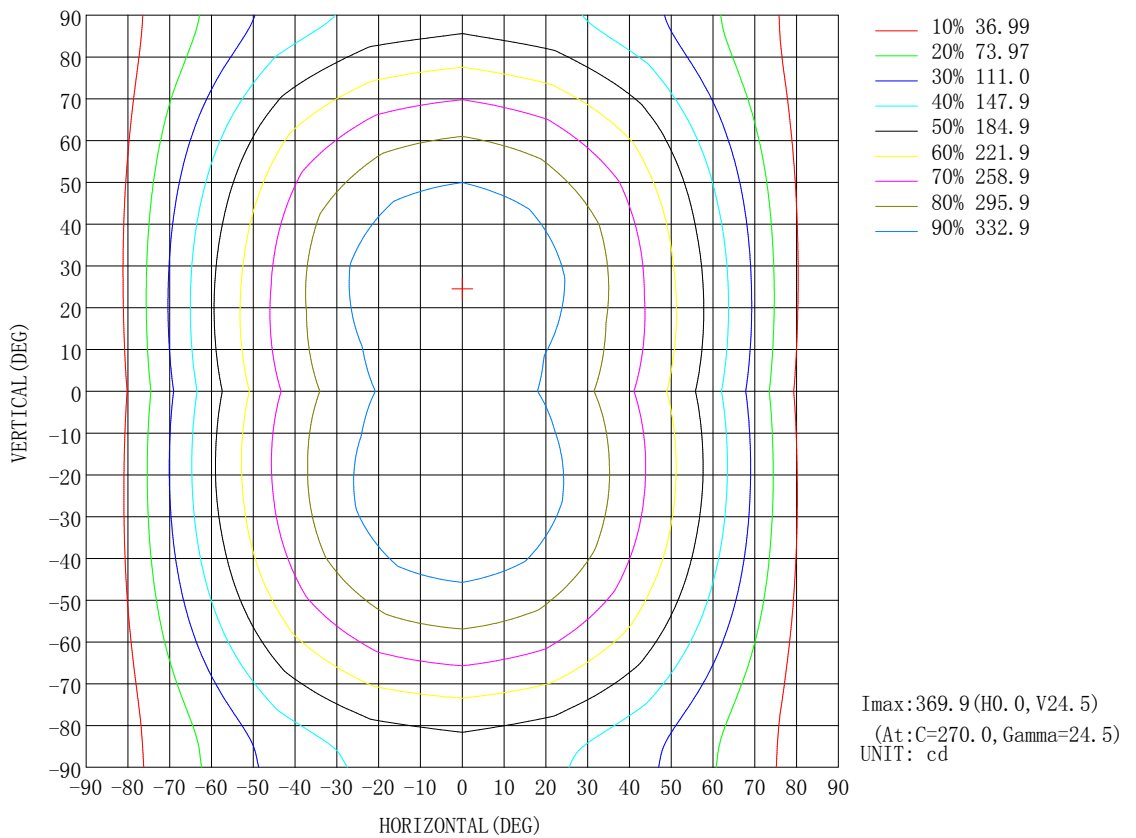
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
 Humidity:65.0%  
 Test Distance:2.686m [K=1.0000]  
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

### ISOCANDELA DIAGRAM

Test:U:240.4V I:0.1707A P:22.25W PF:0.5419 Freq:50.00Hz Lamp Flux:1824.24x1 lm		
NAME: MLS1200CCT	TYPE:LED Lamp	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No:
MFR:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Near  
 Test Date: 2018-03-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
 Humidity: 65.0%  
 Test Distance: 2.686m [K=1.0000]  
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

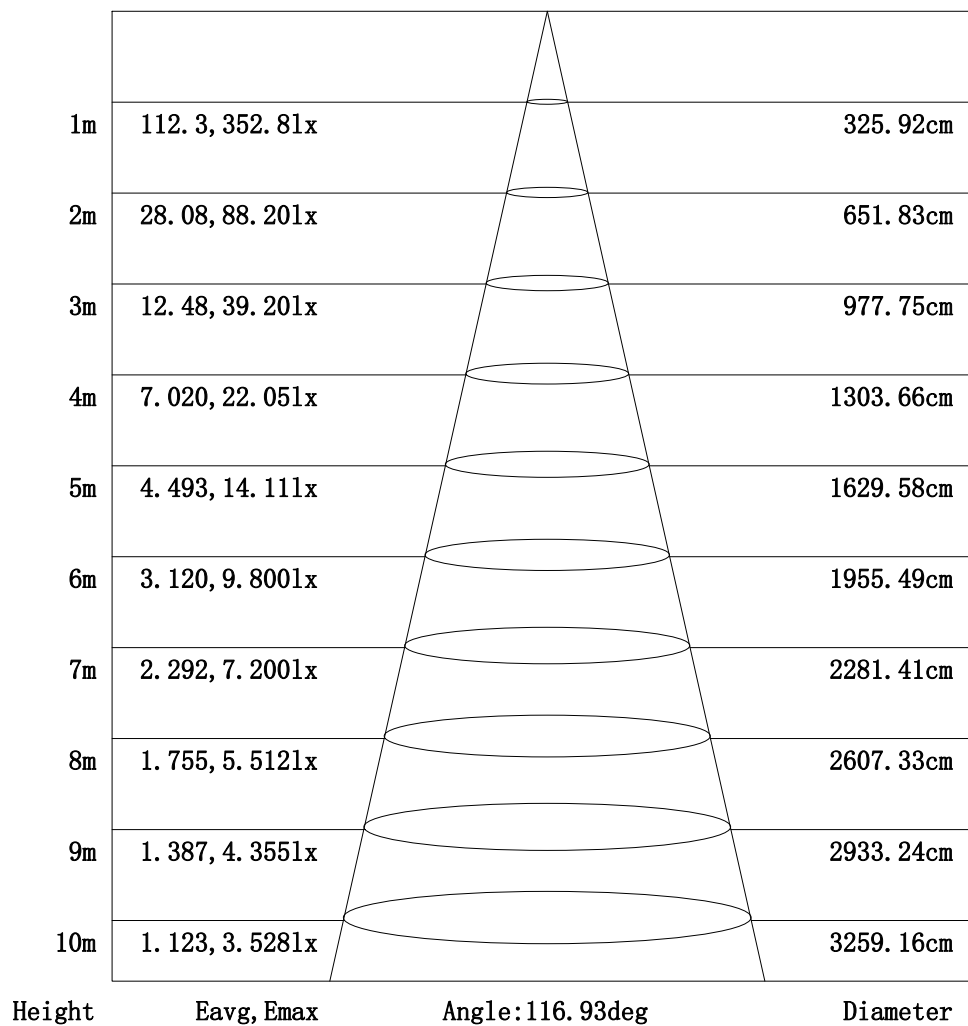
Assessor: Akin Xu



### AAI Figure

Test:U:240.4V I:0.1707A P:22.25W PF:0.5419 Freq:50.00Hz Lamp Flux:1824.24x1 lm		
NAME: MLS1200CCT	TYPE:LED Lamp	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No:
MFR:	SUR.:	Shielding Angle:

Flux out:939.6 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: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Near  
 Test Date:2018-03-29

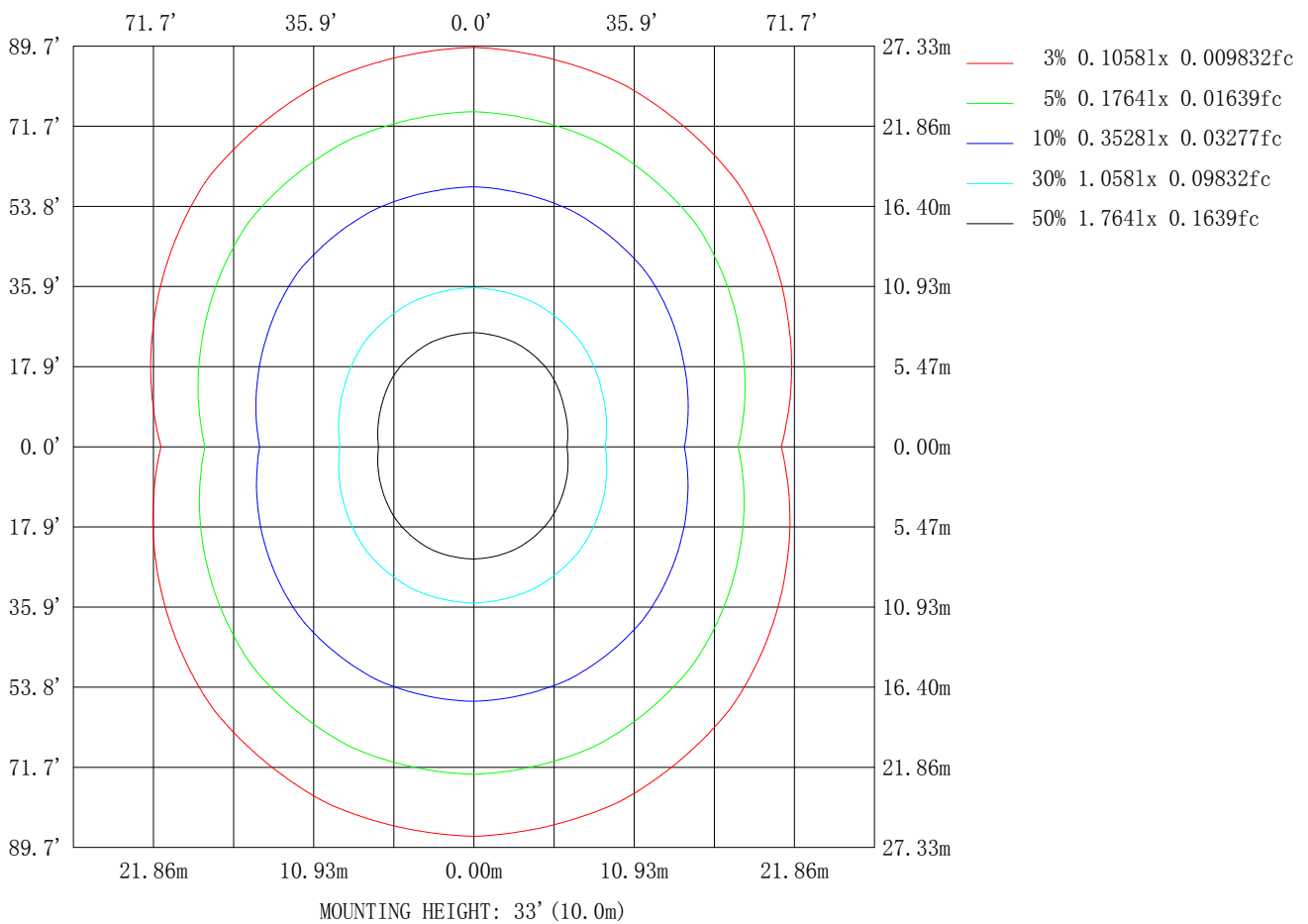
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
 Humidity:65.0%  
 Test Distance:2.686m [K=1.0000]  
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

ISOLUX DIAGRAM

Test:U:240.4V I:0.1707A P:22.25W PF:0.5419 Freq:50.00Hz Lamp Flux:1824.24x1 lm		
NAME: MLS1200CCT	TYPE:LED Lamp	WEIGHT:
SPEC. :4000K	DIM. :	SERIAL No:
MFR:	SUR. :	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Near  
 Test Date:2018-03-29

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
 Humidity:65.0%  
 Test Distance:2.686m [K=1.0000]  
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

### LED Avg. L Report

Test:U:240.4V I:0.1707A P:22.25W PF:0.5419 Freq:50.00Hz Lamp Flux:1824.24x1 lm		
NAME: MLS1200CCT	TYPE:LED Lamp	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No:
MFR:	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	2308
L_0~180(75)av	1894
L_0~180(85)av	852
L_90~270(65)av	4705
L_90~270(75)av	6361
L_90~270(85)av	15191
L_45(65)av	4024
L_45(75)av	5081
L_45(85)av	11065

Standard: GB/T 29293-2012

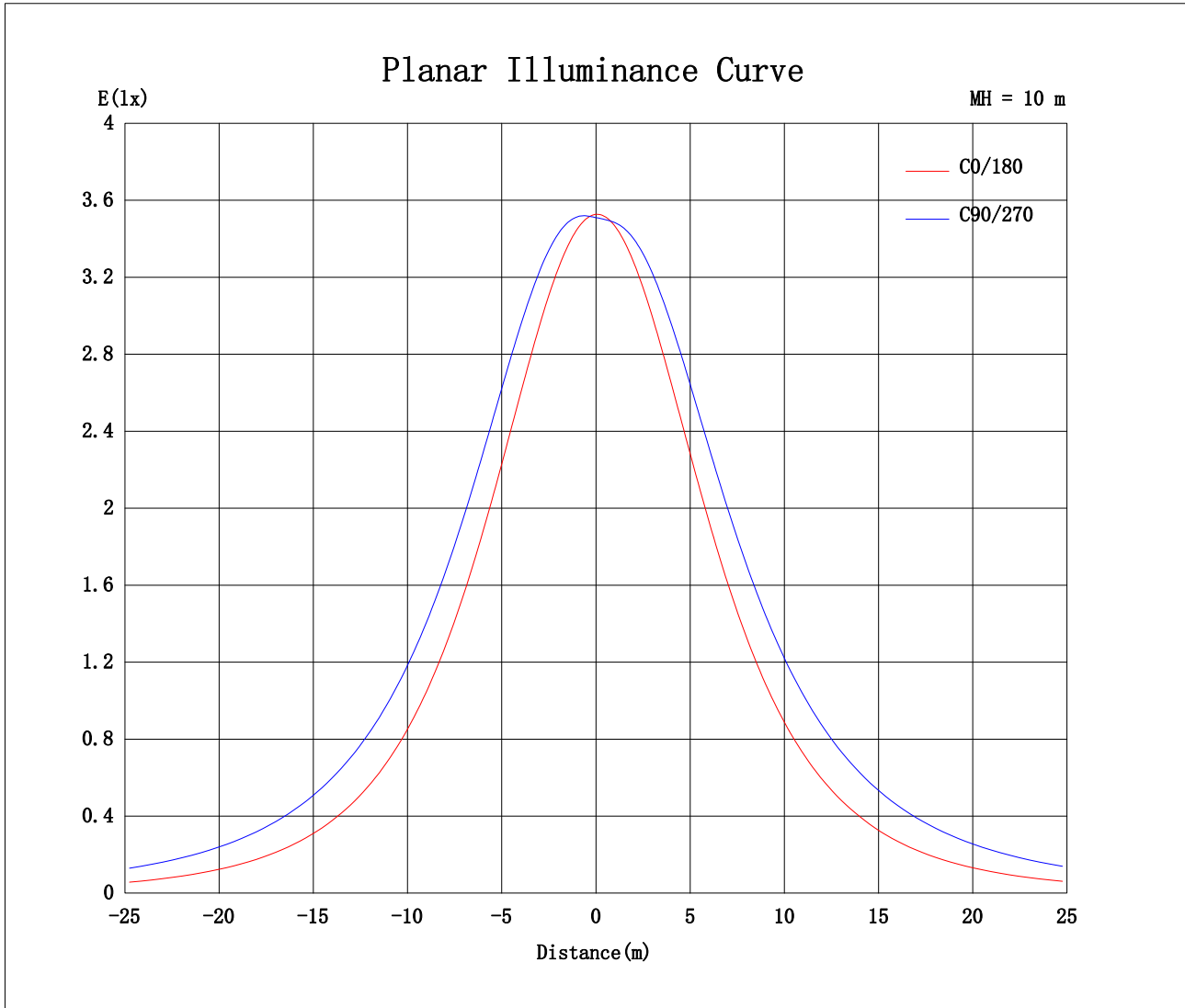
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Near  
 Test Date:2018-03-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
 Humidity:65.0%  
 Test Distance:2.686m [K=1.0000]  
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Near  
 Test Date: 2018-03-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
 Humidity: 65.0%  
 Test Distance: 2.686m [K=1.0000]  
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.4V I:0.1707A P:22.25W PF:0.5419 Freq:50.00Hz Lamp Flux:1824.24x1 lm		
NAME: MLS1200CCT	TYPE:LED Lamp	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No:
MFR:	SUR.:	Shielding Angle:

Table-1

UNIT: cd

C (DEG) \ γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351			
5	349	351	353	355	356	355	354	352	351	351	352	353	353	353	351	349			
10	344	349	355	360	362	361	357	351	347	349	354	358	359	357	352	347			
15	337	345	355	363	367	365	358	349	342	346	356	363	365	362	353	342			
20	327	339	353	364	369	366	357	344	333	341	356	366	369	364	352	336			
25	315	330	349	363	368	365	354	336	322	334	354	367	370	364	349	328			
30	300	319	342	358	364	361	348	327	308	324	349	364	368	361	344	318			
35	282	306	332	350	357	354	339	314	291	312	342	359	363	355	336	305			
40	262	290	320	340	347	344	327	299	272	298	332	351	356	347	325	290			
45	240	272	305	327	335	331	313	281	250	281	319	340	346	336	312	272			
50	216	251	288	312	320	316	296	261	226	262	303	326	333	322	296	253			
55	189	228	268	294	303	298	276	238	199	240	285	310	318	306	278	231			
60	160	203	246	274	284	278	254	212	169	215	265	292	300	287	257	206			
65	129	174	222	252	262	256	229	183	137	188	242	271	280	267	234	180			
70	96.4	145	196	228	239	232	203	153	104	159	217	248	258	244	210	151			
75	63.4	115	169	203	215	207	176	123	70.3	129	189	224	234	220	183	122			
80	32.8	86.7	144	179	192	182	150	93.1	37.9	99.5	163	199	210	195	157	93.8			
85	8.79	64.3	124	160	174	163	129	69.5	11.4	74.0	139	176	187	173	134	69.8			
90	0.27	55.7	116	153	167	156	121	60.3	0.36	60.9	124	161	172	159	121	58.6			
95	0.40	24.2	41.7	123	151	144	89.4	27.2	0.37	27.2	114	156	167	154	115	27.6			
100	0.72	26.9	54.4	7.57	7.28	4.42	16.9	27.7	0.59	27.6	10.5	27.1	69.3	40.6	6.07	27.6			
105	0.93	24.4	78.1	107	79.9	83.3	77.4	27.9	0.87	24.1	75.8	66.7	24.1	55.1	76.3	27.0			
110	0.98	26.9	79.6	113	128	117	82.4	27.3	0.93	28.1	82.8	118	134	118	83.4	28.5			
115	0.98	27.2	76.5	108	120	112	79.9	28.6	0.96	29.0	81.5	115	128	115	81.6	29.8			
120	0.88	25.3	72.0	102	112	104	75.1	27.6	0.85	28.4	78.3	109	119	108	77.7	29.1			
125	0.87	22.7	66.2	94.0	103	95.8	69.1	25.1	0.92	25.6	72.7	101	111	100	72.5	26.3			
130	0.78	19.9	59.8	85.0	93.6	86.5	62.3	22.0	0.89	23.2	65.3	92.5	101	91.7	65.9	23.2			
135	0.85	3.75	52.6	75.7	83.3	76.9	54.8	17.7	0.85	9.13	58.5	81.6	90.5	82.2	58.7	17.7			
140	0.85	8.25	44.9	65.6	72.7	66.7	46.8	1.68	0.83	4.95	52.0	72.3	79.0	71.7	51.4	1.70			
145	0.75	10.8	37.0	55.2	61.6	56.2	38.7	4.22	0.82	9.03	41.8	62.4	68.1	61.9	43.0	10.6			
150	0.75	7.09	23.3	44.6	50.1	45.4	30.3	8.32	0.89	11.8	35.0	51.7	56.8	50.7	33.3	11.5			
155	0.78	4.39	0.99	33.8	38.3	34.5	2.96	5.28	0.96	9.82	1.05	40.2	44.0	39.1	1.06	8.45			
160	0.81	2.20	11.2	0.74	8.18	0.98	11.2	2.64	1.03	6.23	12.7	1.14	9.58	1.22	14.1	5.68			
165	0.82	0.90	5.57	11.1	12.0	11.6	6.51	0.99	1.07	3.50	10.8	13.9	11.4	16.1	10.5	3.28			
170	0.84	0.87	1.53	3.80	4.77	4.07	1.60	0.81	1.06	1.80	4.76	8.83	9.71	8.35	4.81	1.41			
175	0.85	0.90	0.84	0.73	0.74	0.75	0.82	0.86	0.98	1.00	1.56	1.88	2.69	2.02	1.28	1.00			
180	0.93	0.91	0.89	0.85	0.87	0.85	0.90	0.93	0.93	0.91	0.89	0.85	0.87	0.85	0.91	0.93			

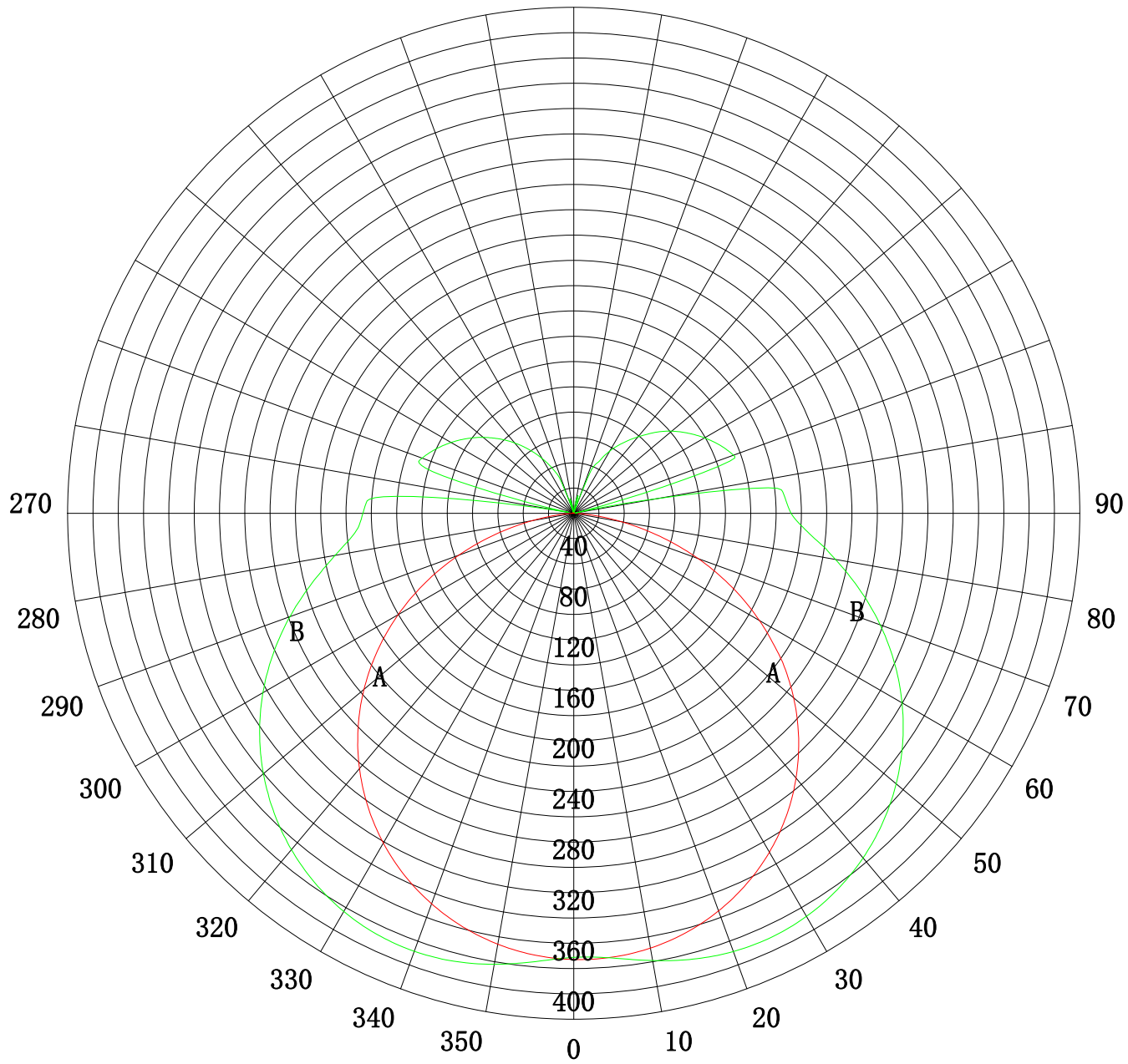
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Near  
 Test Date:2018-03-29

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.354  
 Humidity:65.0%  
 Test Distance:2.686m [K=1.0000]  
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

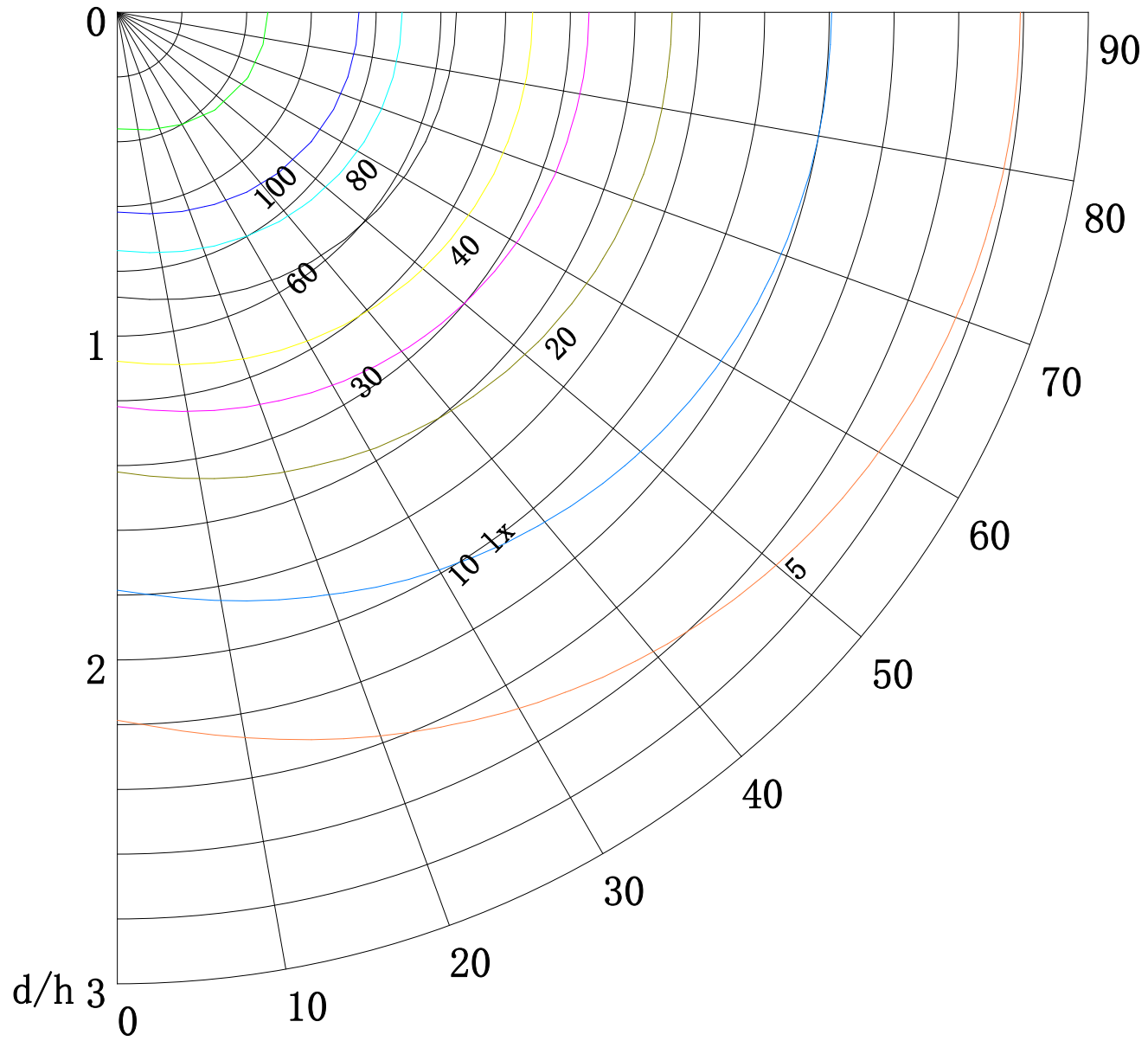
Assessor: Akin Xu

I (cd)



1000 l<sub>m</sub>

K = 1



F = 1000 lm  
 K = 0.7  
 Hcc = 0.8 m  
 Hfc = 0.0 m  
 Eave = 100 lx

	Pcc	Pw	Pfc
————	70	50	30
————	50	30	20

