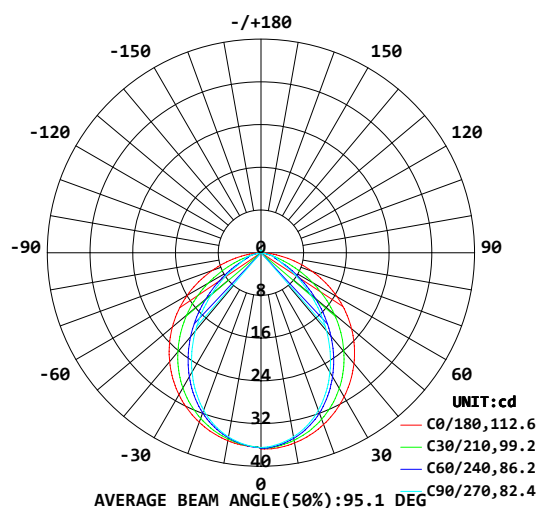


## LUMINAIRE PHOTOMETRIC TEST REPORT

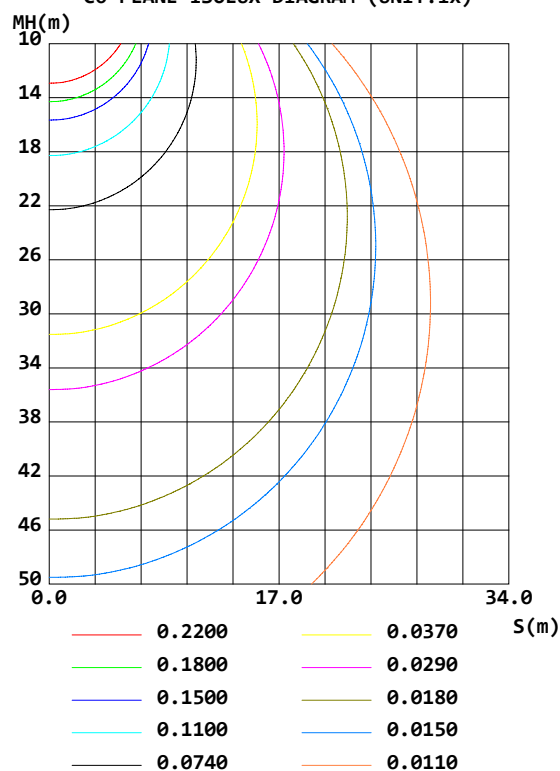
Test:U:23.998V I:0.1147A P:2.7526W PF:1.0000 Freq:50.04Hz Lamp Flux:80.0991x1 lm		
NAME: 硬灯条	TYPE:RR20-SUPER-05-30	WEIGHT:
SPEC.:RR20-SUPER-05-30	DIM.: 0.1X0.5	SERIAL No.:
MFR.: 乐的美光电	SUR.:0.1X0.5	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 29.10 lm/W
MODEL	RR20-SUPER-05-30	I <sub>max</sub> (cd)	36.76	S/MH(C0/180)	1.26	
NOMINAL POWER(W)	2.77	LOR(%)	100.0	S/MH(C90/270)	1.09	
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	80.099	h UP,DN(C0-180)	0.3,49.7	
NOMINAL FLUX(lm)	80.0991	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.3,49.6	
LAMPS INSIDE	1	h up(%)	0.7	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	24	h down(%)	99.3	CIBSE SHR MAX	1.25	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 180DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-04-06

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity: 65.0%  
Test Distance: 12.000m [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	36.18	35.47	35.01	35.30	35.73	35.30	35.01	35.47	0- 10	3.432	3.432	4.28, 4.28
20	34.24	32.57	31.39	32.47	33.80	32.47	31.39	32.57	10- 20	9.635	13.07	16.3, 16.3
30	31.15	28.00	25.83	28.03	30.72	28.03	25.83	28.00	20- 30	14.04	27.11	33.8, 33.8
40	27.08	22.10	19.10	22.24	26.62	22.24	19.10	22.10	30- 40	15.89	43.00	53.7, 53.7
50	22.14	15.33	12.04	15.58	21.68	15.58	12.04	15.33	40- 50	14.92	57.93	72.3, 72.3
60	16.44	8.402	5.971	8.671	15.94	8.671	5.971	8.402	50- 60	11.50	69.43	86.7, 86.7
70	10.20	2.789	3.237	2.916	9.721	2.916	3.237	2.789	60- 70	6.829	76.26	95.2, 95.2
80	4.013	0.7913	0.3038	0.8098	3.722	0.8098	0.3038	0.7913	70- 80	2.958	79.22	98.9, 98.9
90	0.0385	0	0	0	0.0001	0	0	0	80- 90	0.3374	79.55	99.3, 99.3
100	0	0	0	0	0	0	0	0	90-100	0.0003	79.55	99.3, 99.3
110	0	0	0	0	0	0	0	0	100-110	0.0007	79.55	99.3, 99.3
120	0.0667	0.0149	0.0001	0.0112	0.0670	0.0112	0.0001	0.0149	110-120	0.0125	79.57	99.3, 99.3
130	0.0969	0.0857	0.0673	0.1082	0.1045	0.1082	0.0673	0.0857	120-130	0.0502	79.62	99.4, 99.4
140	0.1865	0.1641	0.1568	0.1754	0.2161	0.1754	0.1568	0.1641	130-140	0.1005	79.72	99.5, 99.5
150	0.2089	0.2425	0.2464	0.2500	0.2313	0.2500	0.2464	0.2425	140-150	0.1287	79.85	99.7, 99.7
160	0.2832	0.2985	0.3209	0.2799	0.2611	0.2799	0.3209	0.2985	150-160	0.1228	79.97	99.8, 99.8
170	0.3358	0.3693	0.3956	0.3581	0.3506	0.3581	0.3956	0.3693	160-170	0.0935	80.06	100, 100
180	0.4552	0.4067	0.4626	0.4253	0.4328	0.4253	0.4626	0.4067	170-180	0.0367	80.10	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 50.756 lm

%lum = 63.4%

%lamp = 63.4%

Conical surface Flux(120deg): 69.428 lm

%lum = 86.7%

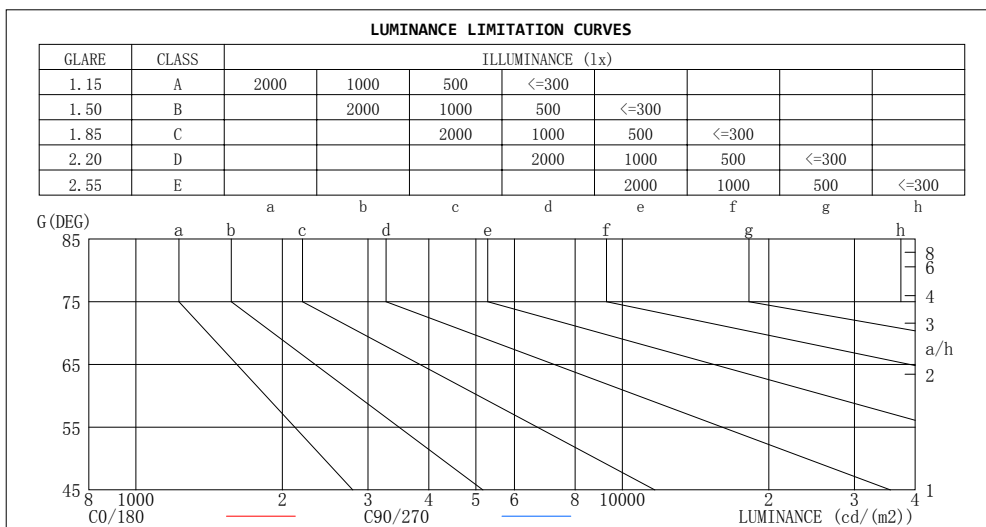
%lamp = 86.7%

C Range: 0 - 180DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-04-06

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:12.000m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:23.998V I:0.1147A P:2.7526W PF:1.0000 Freq:50.04Hz Lamp Flux:80.0991x1 lm		
NAME: 硬灯条	TYPE:RR20-SUPER-05-30	WEIGHT:
SPEC.:RR20-SUPER-05-30	DIM.: 0.1X0.5	SERIAL No.:
MFR.: 乐的美光电	SUR.:0.1X0.5	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	345	0
80	462	35
75	542	150
70	596	189
65	633	187
60	657	239
55	675	307
50	689	375
45	699	440

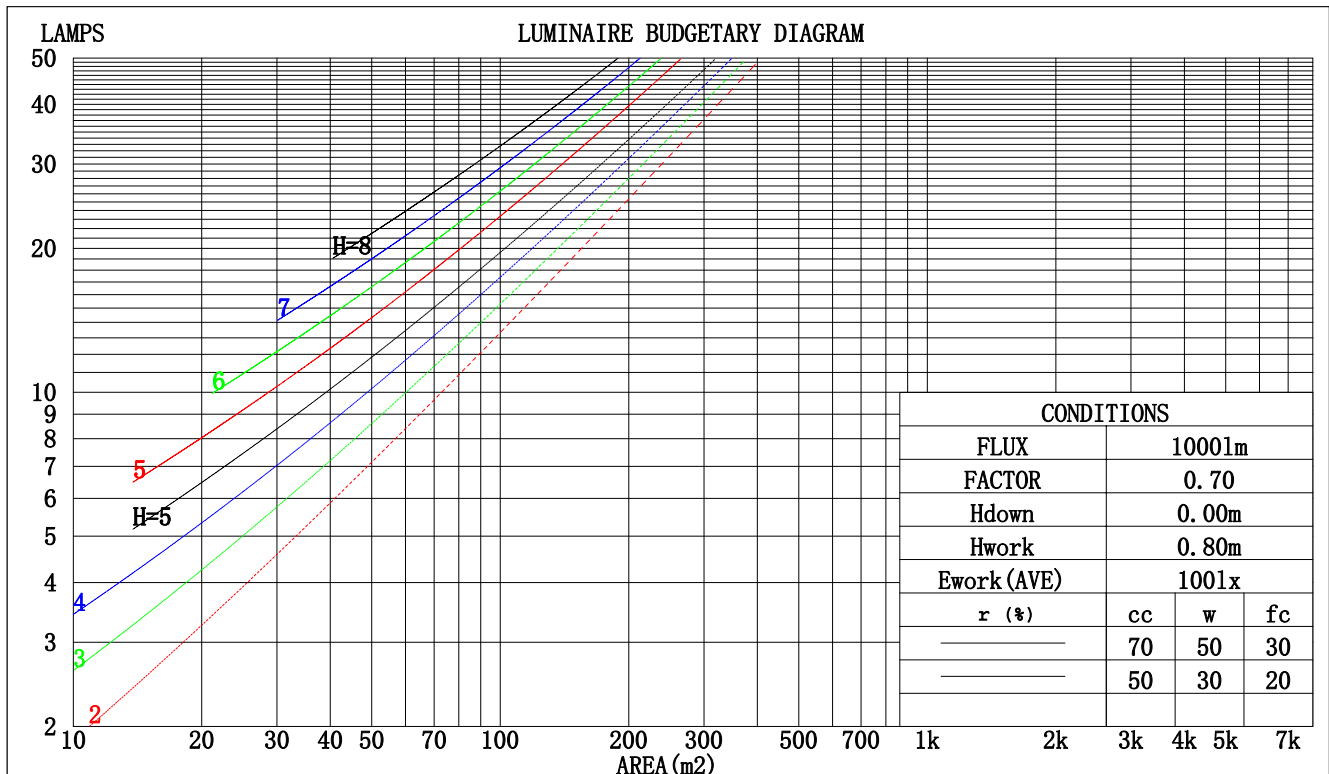
C Range: 0 - 180DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-04-06

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:12.000m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.998V I:0.1147A P:2.7526W PF:1.0000 Freq:50.04Hz Lamp Flux:80.0991x1 lm		
NAME: 硬灯条	TYPE:RR20-SUPER-05-30	WEIGHT:
SPEC.:RR20-SUPER-05-30	DIM.: 0.1X0.5	SERIAL No.:
MFR.: 乐的美光电	SUR.:0.1X0.5	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						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	1.06	1.02	.99	1.04	1.01	.97	.00	.97	.94	.96	.93	.91	.92	.90	.89	.86
2.0	.94	.88	.83	.92	.87	.82	.89	.84	.80	.85	.81	.78	.82	.79	.76	.74
3.0	.84	.76	.71	.82	.75	.70	.79	.73	.69	.76	.71	.67	.74	.70	.66	.64
4.0	.75	.67	.61	.74	.66	.60	.71	.65	.60	.69	.63	.59	.67	.62	.58	.56
5.0	.68	.59	.53	.66	.59	.53	.64	.57	.52	.62	.56	.52	.60	.55	.51	.49
6.0	.61	.53	.47	.60	.52	.47	.58	.51	.46	.57	.51	.46	.55	.50	.45	.43
7.0	.56	.48	.42	.55	.47	.42	.53	.46	.41	.52	.46	.41	.51	.45	.41	.39
8.0	.51	.43	.38	.50	.43	.37	.49	.42	.37	.48	.42	.37	.47	.41	.37	.35
9.0	.47	.39	.34	.47	.39	.34	.45	.39	.34	.44	.38	.34	.43	.38	.33	.32
10.0	.44	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.31	.40	.35	.31	.29



C Range: 0 - 180DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-04-06

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:12.000m [K=1.0000]  
 Remarks:

### WEC AND CCEC

Test:U:23.998V I:0.1147A P:2.7526W PF:1.0000 Freq:50.04Hz Lamp Flux:80.0991x1 lm								
NAME: 硬灯条				TYPE:RR20-SUPER-05-30			WEIGHT:	
SPEC.:RR20-SUPER-05-30				DIM.: 0.1X0.5			SERIAL No.:	
MFR.: 乐的美光电				SUR.:0.1X0.5			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	.264	.150	.047	.256	.146	.046	.243	.139	.045	.231	.133	.043	.219	.127	.041	
2.0	.255	.140	.043	.249	.137	.042	.237	.132	.041	.227	.127	.040	.217	.122	.039	
3.0	.241	.128	.038	.235	.126	.038	.225	.122	.037	.216	.118	.036	.207	.114	.035	
4.0	.226	.117	.034	.221	.116	.034	.212	.112	.034	.203	.109	.033	.195	.106	.032	
5.0	.211	.108	.031	.207	.106	.031	.199	.103	.030	.191	.101	.030	.184	.098	.030	
6.0	.198	.099	.028	.194	.098	.028	.187	.096	.028	.180	.093	.027	.174	.091	.027	
7.0	.186	.092	.026	.182	.091	.026	.176	.089	.026	.170	.087	.025	.164	.085	.025	
8.0	.174	.085	.024	.171	.084	.024	.166	.083	.024	.160	.081	.023	.155	.080	.023	
9.0	.164	.080	.022	.162	.079	.022	.156	.077	.022	.151	.076	.022	.147	.075	.022	
10.0	.155	.074	.021	.153	.074	.021	.148	.073	.020	.144	.071	.020	.139	.070	.020	

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	.167	.167	.167	.114	.114	.114	.066	.066	.066	.021	.021	.021	
1.0	.182	.162	.143	.156	.139	.123	.107	.096	.085	.061	.055	.050	.020	.018	.016	
2.0	.173	.137	.108	.148	.118	.093	.101	.082	.065	.058	.048	.038	.019	.015	.012	
3.0	.164	.119	.084	.141	.103	.073	.097	.072	.051	.056	.042	.030	.018	.014	.010	
4.0	.156	.106	.067	.134	.091	.058	.092	.064	.041	.053	.037	.024	.017	.012	.008	
5.0	.149	.095	.055	.128	.082	.048	.088	.058	.034	.051	.034	.020	.016	.011	.007	
6.0	.142	.087	.047	.122	.075	.041	.084	.053	.029	.049	.031	.017	.016	.010	.006	
7.0	.136	.080	.040	.117	.069	.035	.081	.048	.025	.047	.029	.015	.015	.009	.005	
8.0	.130	.074	.036	.112	.064	.031	.077	.045	.022	.045	.027	.013	.015	.009	.004	
9.0	.124	.069	.032	.107	.060	.028	.074	.042	.020	.043	.025	.012	.014	.008	.004	
10.0	.119	.065	.029	.102	.056	.025	.071	.040	.018	.041	.023	.011	.013	.008	.004	

C Range: 0 - 180DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-04-06

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:12.000m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

Test:U:23.998V I:0.1147A P:2.7526W PF:1.0000 Freq:50.04Hz Lamp Flux:80.0991x1 lm											
NAME: 硬灯条						TYPE:RR20-SUPER-05-30			WEIGHT:		
SPEC.:RR20-SUPER-05-30						DIM.: 0.1X0.5			SERIAL No.:		
MFR.: 乐的美光电						SUR.:0.1X0.5			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		11.5	12.9	11.8	13.1	13.3	7.7	9.1	8.0	9.3	9.5
	3H	13.0	14.3	13.3	14.5	14.7	8.2	9.5	8.5	9.7	10.0
	4H	13.5	14.8	13.9	15.0	15.3	8.5	9.7	8.8	9.9	10.2
	6H	13.9	15.1	14.3	15.3	15.6	8.5	9.6	8.8	9.9	10.1
	8H	14.0	15.1	14.4	15.4	15.7	8.4	9.5	8.7	9.8	10.1
	12H	14.1	15.1	14.4	15.4	15.7	8.3	9.4	8.7	9.7	10.0
4H	2H	11.5	12.7	11.8	12.9	13.2	8.2	9.4	8.6	9.7	10.0
	3H	13.0	14.1	13.4	14.4	14.7	8.8	9.9	9.2	10.2	10.5
	4H	13.6	14.6	14.0	14.9	15.3	9.1	10.1	9.5	10.4	10.8
	6H	14.1	14.9	14.5	15.3	15.6	9.2	10.0	9.6	10.3	10.7
	8H	14.2	15.0	14.6	15.3	15.7	9.1	9.9	9.5	10.3	10.7
	12H	14.2	15.0	14.7	15.3	15.8	9.1	9.8	9.5	10.2	10.6
8H	4H	13.5	14.3	14.0	14.7	15.1	9.2	10.0	9.7	10.4	10.8
	6H	14.0	14.6	14.4	15.0	15.5	9.3	9.9	9.7	10.3	10.8
	8H	14.1	14.7	14.6	15.1	15.6	9.2	9.8	9.7	10.2	10.7
	12H	14.2	14.7	14.7	15.1	15.6	9.2	9.7	9.7	10.1	10.6
12H	4H	13.5	14.2	13.9	14.6	15.0	9.2	9.9	9.6	10.3	10.7
	6H	14.0	14.5	14.4	14.9	15.4	9.3	9.8	9.7	10.3	10.7
	8H	14.1	14.6	14.6	15.0	15.5	9.2	9.7	9.7	10.2	10.6
Variations with the observer position at spacings:											
S = 1.0H		+ 0.2 / - 0.2					+ 0.7 / - 0.9				
1.5H		+ 0.3 / - 0.5					+ 0.3 / - 0.4				
2.0H		+ 1.0 / - 1.5					+ 1.2 / - 1.9				

CIE Pub.117, 80.10 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -8.8)

C Range: 0 - 180DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-04-06

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:12.000m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:23.998V I:0.1147A P:2.7526W PF:1.0000 Freq:50.04Hz Lamp Flux:80.0991x1 lm		
NAME: 硬灯条	TYPE:RR20-SUPER-05-30	WEIGHT:
SPEC.:RR20-SUPER-05-30	DIM.: 0.1X0.5	SERIAL No.:
MFR.: 乐的美光电	SUR.:0.1X0.5	Shielding Angle:

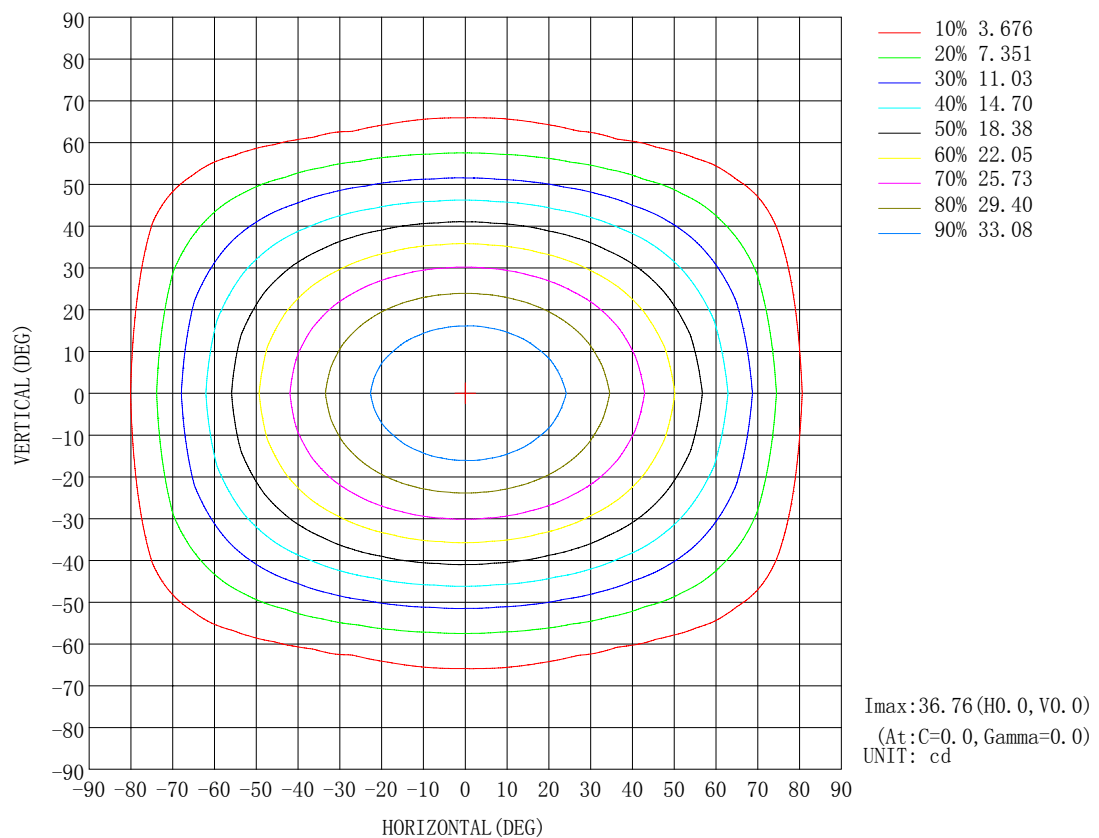
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	63	52	45	62	52	45	61	51	45	39
0.80	73	62	56	72	62	55	70	61	55	49
1.00	81	71	65	80	71	64	78	72	64	57
1.25	88	79	72	86	78	72	84	76	71	64
1.50	92	84	78	91	83	77	88	81	76	69
2.00	99	91	86	97	90	85	93	88	83	76
2.50	102	95	90	100	94	89	96	91	87	79
3.00	105	99	94	103	97	93	99	94	91	83
4.00	108	103	100	106	102	98	102	98	95	87
5.00	110	106	103	108	104	101	103	101	98	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 180DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-04-06

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:12.000m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:23.998V I:0.1147A P:2.7526W PF:1.0000 Freq:50.04Hz Lamp Flux:80.0991x1 lm		
NAME: 硬灯条	TYPE:RR20-SUPER-05-30	WEIGHT:
SPEC.:RR20-SUPER-05-30	DIM.: 0.1X0.5	SERIAL No.:
MFR.: 乐的美光电	SUR.:0.1X0.5	Shielding Angle:



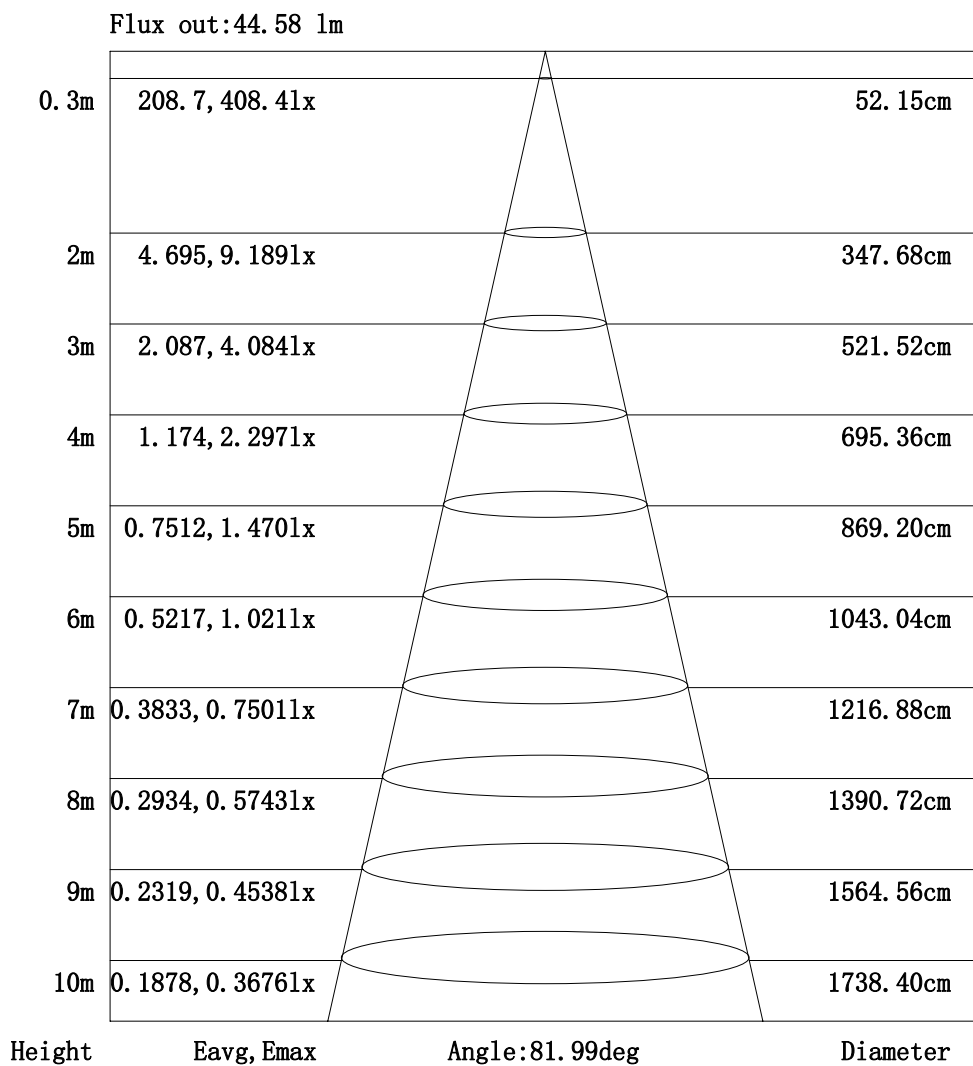
C Range: 0 - 180DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-04-06

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity: 65.0%  
Test Distance: 12.000m [K=1.0000]  
Remarks:



### AAI Figure

Test:U:23.998V I:0.1147A P:2.7526W PF:1.0000 Freq:50.04Hz Lamp Flux:80.0991x1 lm		
NAME: 硬灯条	TYPE:RR20-SUPER-05-30	WEIGHT:
SPEC.:RR20-SUPER-05-30	DIM.: 0.1X0.5	SERIAL No.:
MFR.: 乐的美光电	SUR.:0.1X0.5	Shielding Angle:



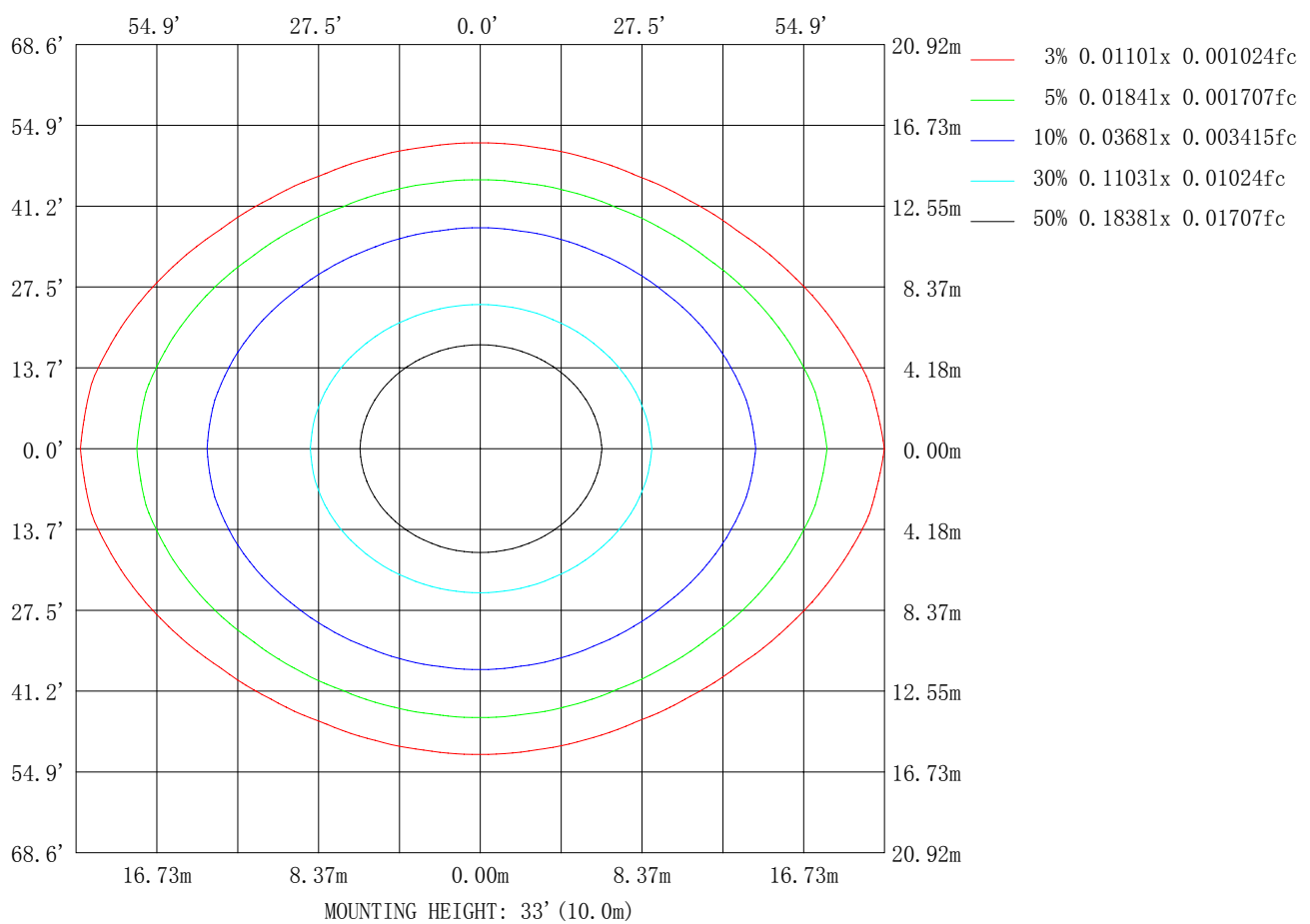
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 180DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-04-06

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:12.000m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

Test:U:23.998V I:0.1147A P:2.7526W PF:1.0000 Freq:50.04Hz Lamp Flux:80.0991x1 lm		
NAME: 硬灯条	TYPE:RR20-SUPER-05-30	WEIGHT:
SPEC.:RR20-SUPER-05-30	DIM.: 0.1X0.5	SERIAL No.:
MFR.: 乐的美光电	SUR.:0.1X0.5	Shielding Angle:



C Range: 0 - 180DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-04-06

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity: 65.0%  
Test Distance: 12.000m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:23.998V I:0.1147A P:2.7526W PF:1.0000 Freq:50.04Hz Lamp Flux:80.0991x1 lm		
NAME: 硬灯条	TYPE:RR20-SUPER-05-30	WEIGHT:
SPEC.:RR20-SUPER-05-30	DIM.: 0.1X0.5	SERIAL No.:
MFR.: 乐的美光电	SUR.:0.1X0.5	Shielding Angle:

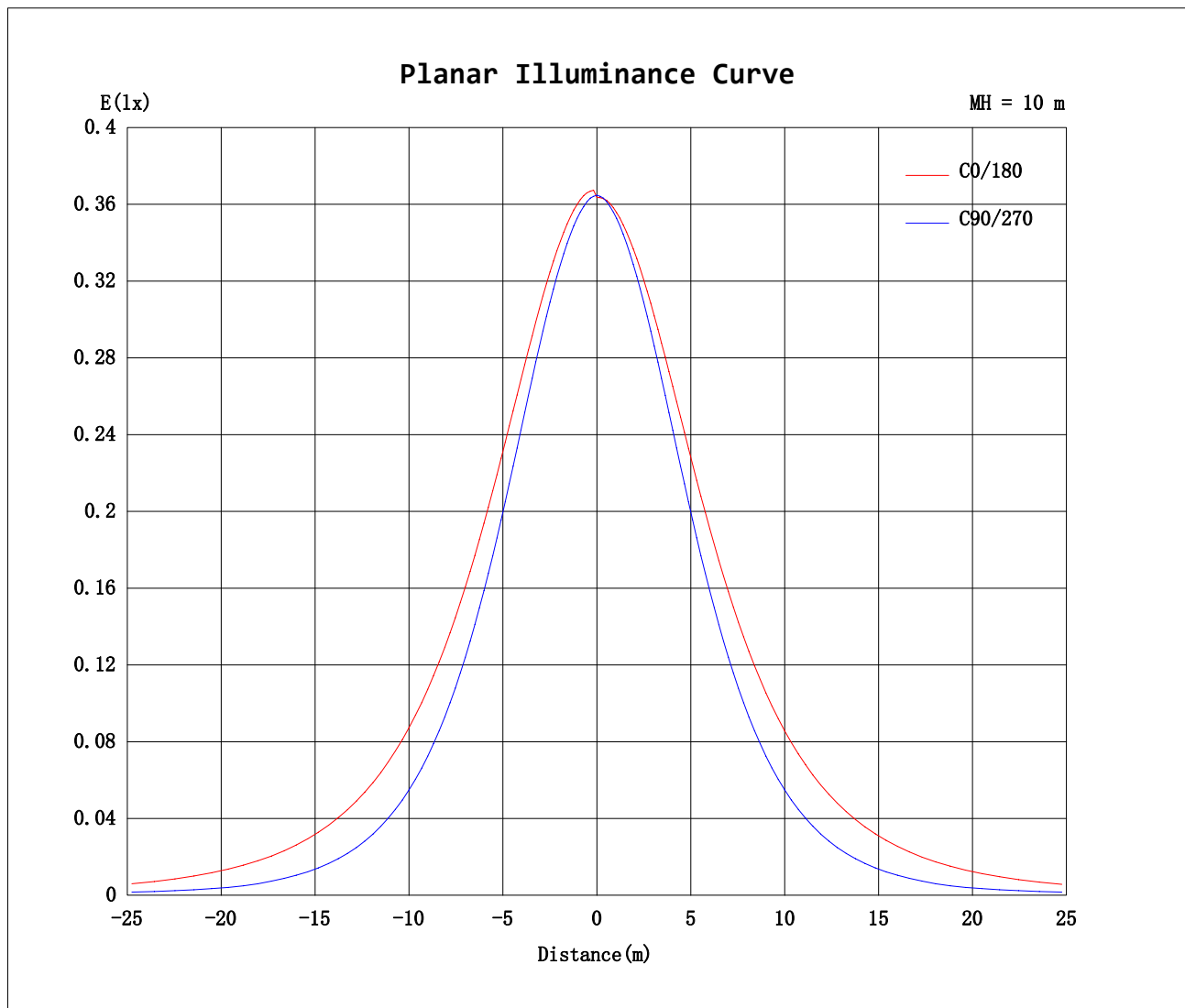
AvgL	cd/m2
L_0~180(65)av	621
L_0~180(75)av	528
L_0~180(85)av	315
L_90~270(65)av	187
L_90~270(75)av	150
L_90~270(85)av	0
L_45(65)av	253
L_45(75)av	138
L_45(85)av	1

Standard: GB/T 29293-2012

C Range: 0 - 180DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-04-06

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:12.000m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 180DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-04-06

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity: 65.0%  
Test Distance: 12.000m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.998V I:0.1147A P:2.7526W PF:1.0000 Freq:50.04Hz Lamp Flux:80.0991x1 lm		
NAME: 硬灯条	TYPE:RR20-SUPER-05-30	WEIGHT:
SPEC.:RR20-SUPER-05-30	DIM.: 0.1X0.5	SERIAL No.:
MFR.: 乐的美光电	SUR.:0.1X0.5	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	36.8	36.7	36.7	36.6	36.7	36.6	36.6	36.5	36.5	36.5	36.5	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
5	36.7	36.5	36.6	36.4	36.4	36.2	36.2	36.1	36.1	36.0	36.1	36.0	36.1	36.0	36.2	36.1	36.2	36.2	36.2
10	36.2	36.0	35.9	35.7	35.6	35.4	35.3	35.1	35.1	35.0	35.1	35.0	35.2	35.2	35.4	35.4	35.6	35.7	35.7
15	35.4	35.1	35.0	34.6	34.4	34.1	33.9	33.6	33.6	33.5	33.5	33.6	33.8	34.0	34.2	34.4	34.7	34.8	34.9
20	34.2	33.9	33.6	33.2	32.8	32.3	32.0	31.7	31.5	31.4	31.4	31.6	31.9	32.3	32.7	33.0	33.4	33.6	33.8
25	32.8	32.5	32.0	31.4	30.8	30.2	29.6	29.2	28.9	28.8	28.9	29.2	29.6	30.1	30.7	31.3	31.8	32.2	32.4
30	31.1	30.7	30.1	29.3	28.4	27.6	26.8	26.3	25.9	25.8	25.9	26.3	26.8	27.6	28.4	29.2	29.9	30.4	30.7
35	29.2	28.7	27.9	26.9	25.7	24.7	23.7	23.1	22.6	22.6	22.7	23.2	23.8	24.8	25.8	26.9	27.8	28.5	28.8
40	27.1	26.5	25.4	24.1	22.7	21.5	20.4	19.7	19.2	19.1	19.2	19.8	20.5	21.6	22.8	24.2	25.4	26.2	26.6
45	24.7	24.0	22.7	21.1	19.5	18.1	16.9	16.1	15.6	15.6	15.7	16.3	17.0	18.3	19.7	21.3	22.7	23.8	24.2
50	22.1	21.3	19.7	17.9	16.1	14.6	13.3	12.6	12.1	12.0	12.2	12.7	13.5	14.8	16.3	18.2	19.9	21.2	21.7
55	19.4	18.4	16.6	14.6	12.6	11.1	9.89	9.26	8.85	8.80	8.89	9.36	10.1	11.3	12.9	14.9	16.8	18.3	18.9
60	16.4	15.4	13.3	11.1	9.10	7.71	6.75	6.30	6.00	5.97	6.05	6.36	6.88	7.94	9.40	11.4	13.5	15.3	15.9
65	13.4	12.2	9.90	7.69	5.85	4.76	3.95	3.91	3.98	3.94	3.96	3.86	4.04	4.92	6.11	8.00	10.1	12.2	12.9
70	10.2	8.88	6.52	4.49	2.96	2.62	2.74	2.98	3.26	3.24	3.21	2.86	2.60	2.58	3.25	4.78	6.82	8.94	9.72
75	7.01	5.61	3.43	1.84	1.78	1.96	2.01	1.95	1.94	1.94	1.94	1.92	1.98	1.86	1.61	2.06	3.74	5.81	6.64
80	4.01	2.63	1.19	1.09	0.92	0.66	0.53	0.38	0.35	0.30	0.36	0.42	0.57	0.68	0.94	0.96	1.21	2.85	3.72
85	1.51	0.55	0.37	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.07	0.35	0.57	1.24
90	0.04	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	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	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
115	0.00	0.07	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.08	0.00
120	0.07	0.11	0.01	0.07	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.08	0.02	0.11	0.07
125	0.09	0.14	0.07	0.10	0.00	0.07	0.00	0.04	0.00	0.02	0.00	0.04	0.00	0.07	0.01	0.12	0.08	0.15	0.09
130	0.10	0.18	0.09	0.15	0.07	0.10	0.01	0.08	0.00	0.07	0.00	0.07	0.01	0.13	0.08	0.16	0.09	0.18	0.10
135	0.19	0.22	0.11	0.19	0.10	0.16	0.10	0.13	0.07	0.13	0.05	0.13	0.09	0.17	0.10	0.19	0.12	0.21	0.14
140	0.19	0.24	0.16	0.23	0.13	0.20	0.10	0.18	0.09	0.16	0.09	0.17	0.12	0.22	0.13	0.23	0.15	0.23	0.22
145	0.21	0.25	0.20	0.26	0.21	0.24	0.14	0.19	0.12	0.20	0.13	0.22	0.21	0.25	0.19	0.25	0.20	0.26	0.23
150	0.21	0.31	0.21	0.28	0.21	0.28	0.20	0.25	0.19	0.25	0.19	0.28	0.21	0.29	0.21	0.27	0.21	0.28	0.23
155	0.23	0.33	0.25	0.34	0.23	0.31	0.21	0.28	0.22	0.29	0.21	0.32	0.25	0.31	0.22	0.29	0.21	0.31	0.23
160	0.28	0.36	0.29	0.36	0.26	0.34	0.24	0.31	0.24	0.32	0.25	0.36	0.27	0.32	0.24	0.31	0.23	0.31	0.26
165	0.34	0.37	0.34	0.39	0.32	0.37	0.31	0.36	0.27	0.37	0.32	0.39	0.33	0.36	0.26	0.34	0.26	0.36	0.33
170	0.34	0.41	0.34	0.40	0.33	0.41	0.34	0.39	0.32	0.40	0.34	0.42	0.34	0.39	0.33	0.37	0.35	0.39	0.35
175	0.37	0.44	0.36	0.43	0.35	0.41	0.37	0.43	0.36	0.44	0.38	0.46	0.36	0.42	0.36	0.40	0.36	0.43	0.37
180	0.46	0.47	0.46	0.46	0.40	0.41	0.40	0.47	0.46	0.46	0.46	0.48	0.43	0.45	0.40	0.40	0.43	0.45	0.43

C Range: 0 - 180DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-04-06

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:12.000m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.998V I:0.1147A P:2.7526W PF:1.0000 Freq:50.04Hz Lamp Flux:80.0991x1 lm																	
NAME: 硬灯条									TYPE:RR20-SUPER-05-30						WEIGHT:		
SPEC.:RR20-SUPER-05-30									DIM.: 0.1X0.5						SERIAL No.:		
MFR.: 乐的美光电									SUR.:0.1X0.5						Shielding Angle:		

Table--2

UNIT: cd

C(DEG) g (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.5	36.5	36.5	36.5	36.6	36.6	36.7	36.6	36.7	36.7		
5	36.2	36.2	36.1	36.2	36.0	36.1	36.0	36.1	36.0	36.1	36.1	36.2	36.2	36.4	36.4	36.6	36.5		
10	35.7	35.6	35.4	35.4	35.2	35.2	35.0	35.1	35.0	35.1	35.1	35.3	35.4	35.6	35.7	35.9	36.0		
15	34.8	34.7	34.4	34.2	34.0	33.8	33.6	33.5	33.5	33.6	33.6	33.9	34.1	34.4	34.6	35.0	35.1		
20	33.6	33.4	33.0	32.7	32.3	31.9	31.6	31.4	31.4	31.5	31.7	32.0	32.3	32.8	33.2	33.6	33.9		
25	32.2	31.8	31.3	30.7	30.1	29.6	29.2	28.9	28.8	28.9	29.2	29.6	30.2	30.8	31.4	32.0	32.5		
30	30.4	29.9	29.2	28.4	27.6	26.8	26.3	25.9	25.8	25.9	26.3	26.8	27.6	28.4	29.3	30.1	30.7		
35	28.5	27.8	26.9	25.8	24.8	23.8	23.2	22.7	22.6	22.6	23.1	23.7	24.7	25.7	26.9	27.9	28.7		
40	26.2	25.4	24.2	22.8	21.6	20.5	19.8	19.2	19.1	19.2	19.7	20.4	21.5	22.7	24.1	25.4	26.5		
45	23.8	22.7	21.3	19.7	18.3	17.0	16.3	15.7	15.6	15.6	16.1	16.9	18.1	19.5	21.1	22.7	24.0		
50	21.2	19.9	18.2	16.3	14.8	13.5	12.7	12.2	12.0	12.1	12.6	13.3	14.6	16.1	17.9	19.7	21.3		
55	18.3	16.8	14.9	12.9	11.3	10.1	9.36	8.89	8.80	8.85	9.26	9.89	11.1	12.6	14.6	16.6	18.4		
60	15.3	13.5	11.4	9.40	7.94	6.88	6.36	6.05	5.97	6.00	6.30	6.75	7.71	9.10	11.1	13.3	15.4		
65	12.2	10.1	8.00	6.11	4.92	4.04	3.86	3.96	3.94	3.98	3.91	3.95	4.76	5.85	7.69	9.90	12.2		
70	8.94	6.82	4.78	3.25	2.58	2.60	2.86	3.21	3.24	3.26	2.98	2.74	2.62	2.96	4.49	6.52	8.88		
75	5.81	3.74	2.06	1.61	1.86	1.98	1.92	1.94	1.94	1.94	1.95	2.01	1.96	1.78	1.84	3.43	5.61		
80	2.85	1.21	0.96	0.94	0.68	0.57	0.42	0.36	0.30	0.35	0.38	0.53	0.66	0.92	1.09	1.19	2.63		
85	0.57	0.35	0.07	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.07	0.37	0.55		
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00		
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
110	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04		
115	0.08	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.07		
120	0.11	0.02	0.08	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.07	0.01	0.11		
125	0.15	0.08	0.12	0.01	0.07	0.00	0.04	0.00	0.02	0.00	0.04	0.00	0.07	0.00	0.10	0.07	0.14		
130	0.18	0.09	0.16	0.08	0.13	0.01	0.07	0.00	0.07	0.00	0.08	0.01	0.10	0.07	0.15	0.09	0.18		
135	0.21	0.12	0.19	0.10	0.17	0.09	0.13	0.05	0.13	0.07	0.13	0.10	0.16	0.10	0.19	0.11	0.22		
140	0.23	0.15	0.23	0.13	0.22	0.12	0.17	0.09	0.16	0.09	0.18	0.10	0.20	0.13	0.23	0.16	0.24		
145	0.26	0.20	0.25	0.19	0.25	0.21	0.22	0.13	0.20	0.12	0.19	0.14	0.24	0.21	0.26	0.20	0.25		
150	0.28	0.21	0.27	0.21	0.29	0.21	0.28	0.19	0.25	0.19	0.25	0.20	0.28	0.21	0.28	0.21	0.31		
155	0.31	0.21	0.29	0.22	0.31	0.25	0.32	0.21	0.29	0.22	0.28	0.21	0.31	0.23	0.34	0.25	0.33		
160	0.31	0.23	0.31	0.24	0.32	0.27	0.36	0.25	0.32	0.24	0.31	0.24	0.34	0.26	0.36	0.29	0.36		
165	0.36	0.26	0.34	0.26	0.36	0.33	0.39	0.32	0.37	0.27	0.36	0.31	0.37	0.32	0.39	0.34	0.37		
170	0.39	0.35	0.37	0.33	0.39	0.34	0.42	0.34	0.40	0.32	0.39	0.34	0.41	0.33	0.40	0.34	0.41		
175	0.43	0.36	0.40	0.36	0.42	0.36	0.46	0.38	0.44	0.36	0.43	0.37	0.41	0.35	0.43	0.36	0.44		
180	0.45	0.43	0.40	0.40	0.45	0.43	0.48	0.46	0.46	0.46	0.47	0.40	0.41	0.40	0.46	0.46	0.47		

C Range: 0 - 180DEG

C Interval: 10.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:

Test Date:2018-04-06

g Range: 0 - 180DEG

g Interval: 1.0DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366

Humidity:65.0%

Test Distance:12.000m [K=1.0000]

Remarks: