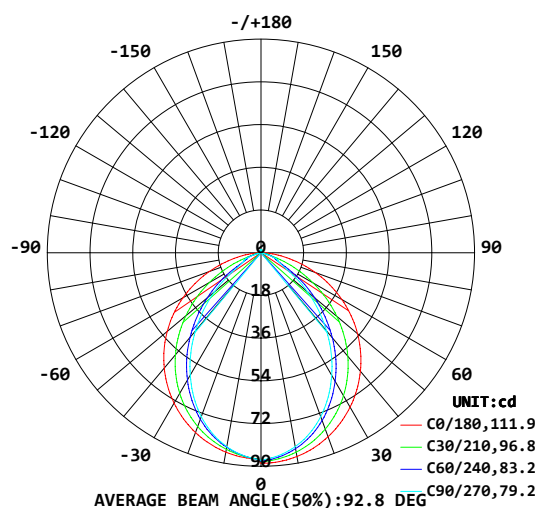


## LUMINAIRE PHOTOMETRIC TEST REPORT

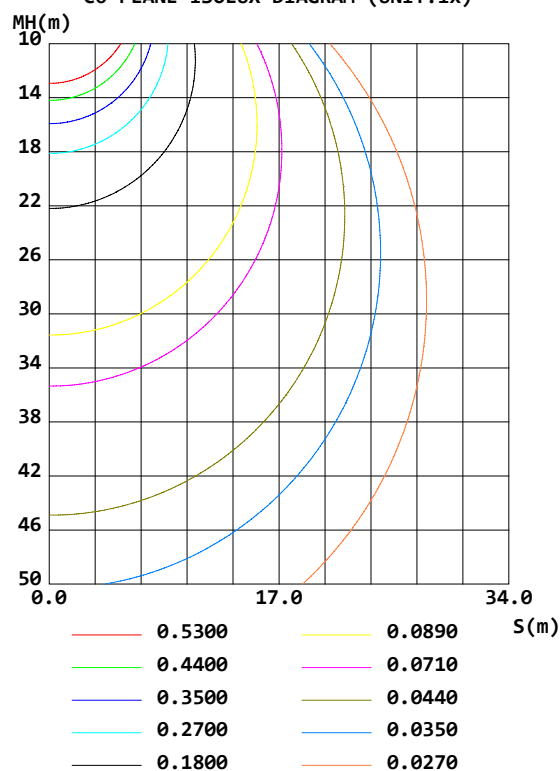
Test:U:23.998V I:0.2404A P:5.7691W PF:1.0000 Freq:50.04Hz Lamp Flux:183.68x1 lm		
NAME: 硬灯条	TYPE:RR20-SUPER-11-40	WEIGHT:
SPEC.:RR20-SUPER-11-40	DIM.: 0.1X0.5	SERIAL No.:
MFR.: 乐的美光电	SUR.:0.1X0.5	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 31.84 lm/W
MODEL	RR20-SUPER-11-40	I <sub>max</sub> (cd)	88.67	S/MH(C0/180)	1.25	
NOMINAL POWER(W)	5.87	LOR(%)	100.0	S/MH(C90/270)	1.05	
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	183.68	h UP,DN(C0-180)	0.7,49.4	
NOMINAL FLUX(lm)	183.68	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.7,49.3	
LAMPS INSIDE	1	h up(%)	1.3	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	24	h down(%)	98.7	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	87.18	84.54	82.97	83.64	85.31	83.64	82.97	84.54	0- 10	8.179	8.179	4.45, 4.45
20	82.55	77.15	73.53	76.27	80.64	76.27	73.53	77.15	10- 20	22.83	31.01	16.9, 16.9
30	75.09	65.83	59.64	65.09	73.23	65.09	59.64	65.83	20- 30	33.05	64.06	34.9, 34.9
40	65.17	51.38	43.06	50.88	63.44	50.88	43.06	51.38	30- 40	37.05	101.1	55, 55
50	53.13	34.90	25.78	34.71	51.60	34.71	25.78	34.90	40- 50	34.28	135.4	73.7, 73.7
60	39.29	17.76	9.934	17.90	37.95	17.90	9.934	17.76	50- 60	25.36	160.7	87.5, 87.5
70	24.36	5.266	5.567	5.031	23.23	5.031	5.567	5.266	60- 70	14.38	175.1	95.3, 95.3
80	9.811	0.5878	0	0.5838	9.131	0.5838	0	0.5878	70- 80	5.489	180.6	98.3, 98.3
90	0.1757	0.0187	0	0	0.1213	0	0	0.0187	80- 90	0.6654	181.3	98.7, 98.7
100	0.0075	0.0261	0	0	0	0	0	0.0261	90-100	0.0216	181.3	98.7, 98.7
110	0.2015	0.1045	0.0747	0.1005	0.2162	0.1005	0.0747	0.1045	100-110	0.0618	181.4	98.7, 98.7
120	0.3878	0.2611	0.2314	0.2946	0.4396	0.2946	0.2314	0.2611	110-120	0.2000	181.6	98.8, 98.8
130	0.5596	0.4702	0.4329	0.5186	0.5744	0.5186	0.4329	0.4702	120-130	0.3544	181.9	99, 99
140	0.6864	0.6974	0.6418	0.7238	0.7013	0.7238	0.6418	0.6974	130-140	0.4572	182.4	99.3, 99.3
150	0.8133	0.8543	0.8210	0.8656	0.8281	0.8656	0.8210	0.8543	140-150	0.4797	182.9	99.5, 99.5
160	0.9177	0.9813	0.9926	0.9775	0.9252	0.9775	0.9926	0.9813	150-160	0.4215	183.3	99.8, 99.8
170	1.074	1.119	1.164	1.093	1.082	1.093	1.164	1.119	160-170	0.2944	183.6	99.9, 99.9
180	1.283	1.261	1.306	1.298	1.283	1.298	1.306	1.261	170-180	0.1125	183.7	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 119 lm

%lum = 64.8%

%lamp = 64.8%

Conical surface Flux(120deg): 160.74 lm

%lum = 87.5%

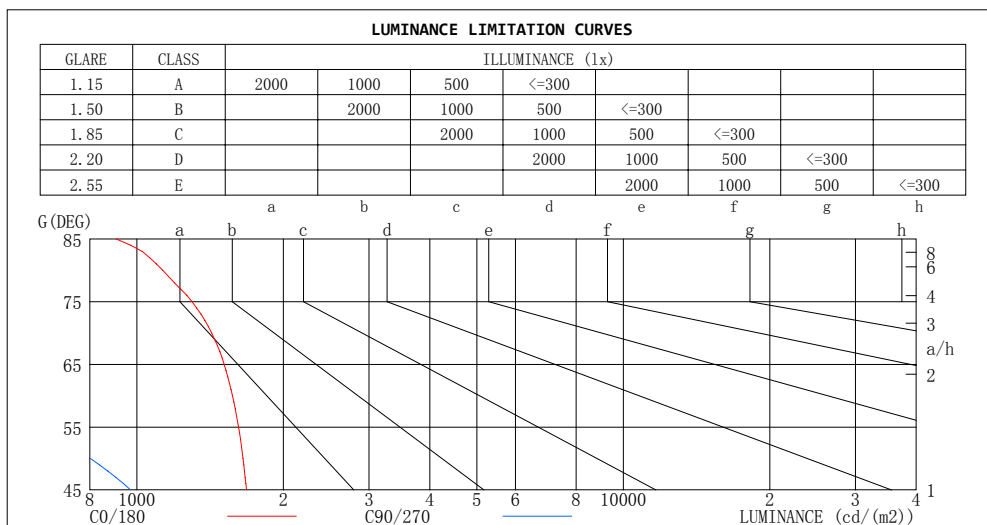
%lamp = 87.5%

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:0.2404A P:5.7691W PF:1.0000 Freq:50.04Hz Lamp Flux:183.68x1 lm		
NAME: 硬灯条	TYPE:RR20-SUPER-11-40	WEIGHT:
SPEC.:RR20-SUPER-11-40	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	906	0
80	1130	0
75	1298	116
70	1425	326
65	1512	376
60	1572	397
55	1618	576
50	1653	802
45	1680	971

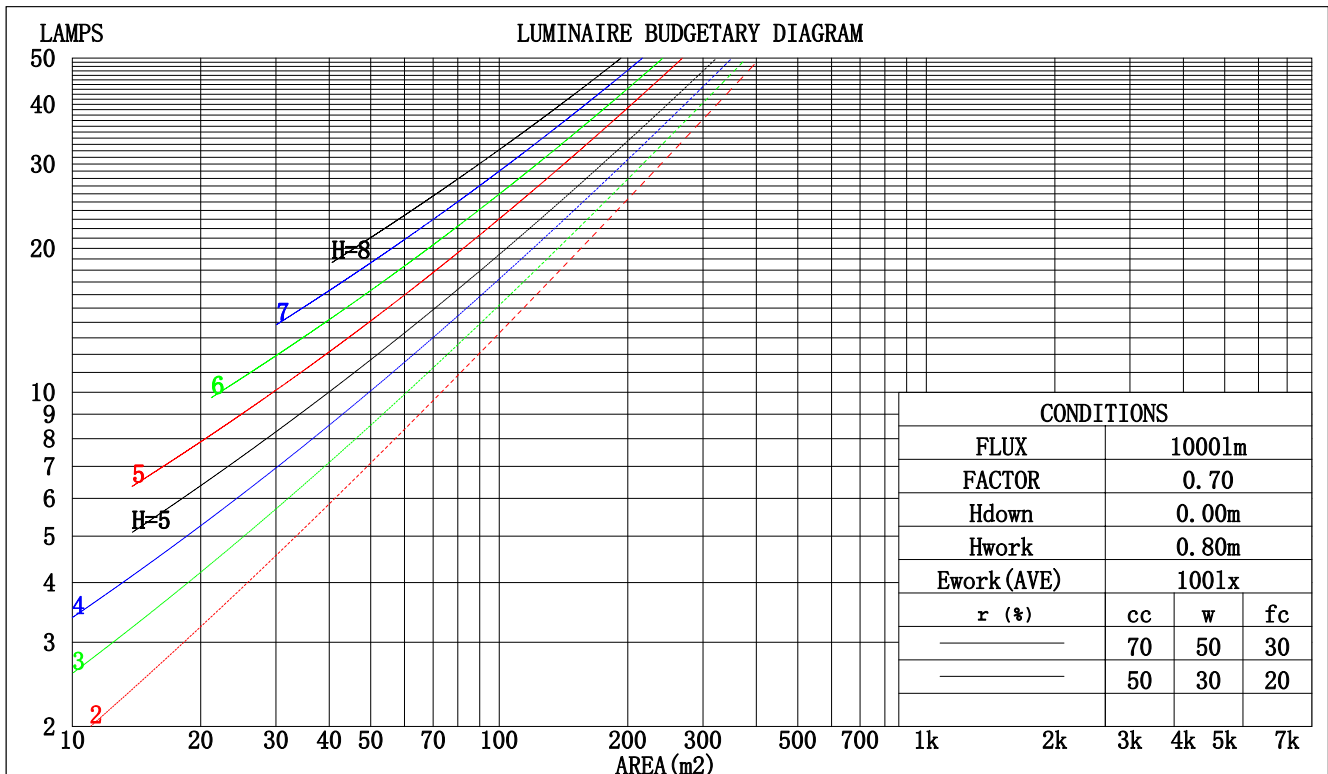
C Range: 0 - 180DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-04-06

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:0.2404A P:5.7691W PF:1.0000 Freq:50.04Hz Lamp Flux:183.68x1 lm		
NAME: 硬灯条	TYPE:RR20-SUPER-11-40	WEIGHT:
SPEC.:RR20-SUPER-11-40	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
rhc	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	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.99
1.0	1.06	1.03	.00	1.04	1.01	.98	.00	.97	.95	.96	.93	.91	.92	.90	.89	.86
2.0	.95	.89	.84	.93	.87	.83	.89	.84	.81	.86	.82	.79	.82	.79	.77	.75
3.0	.84	.77	.71	.83	.76	.71	.80	.74	.69	.77	.72	.68	.74	.70	.67	.65
4.0	.76	.68	.62	.74	.67	.61	.72	.65	.60	.69	.64	.59	.67	.62	.59	.57
5.0	.68	.60	.54	.67	.59	.54	.65	.58	.53	.63	.57	.52	.61	.56	.52	.50
6.0	.62	.54	.48	.61	.53	.48	.59	.52	.47	.57	.51	.47	.56	.50	.46	.44
7.0	.57	.48	.43	.56	.48	.43	.54	.47	.42	.53	.46	.42	.51	.46	.41	.40
8.0	.52	.44	.39	.51	.44	.38	.50	.43	.38	.48	.42	.38	.47	.42	.37	.36
9.0	.48	.40	.35	.47	.40	.35	.46	.39	.35	.45	.39	.34	.44	.38	.34	.32
10.0	.44	.37	.32	.44	.37	.32	.43	.36	.32	.42	.36	.31	.41	.35	.31	.30



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:0.2404A P:5.7691W PF:1.0000 Freq:50.04Hz Lamp Flux:183.68x1 lm					
NAME: 硬灯条			TYPE:RR20-SUPER-11-40		WEIGHT:
SPEC.:RR20-SUPER-11-40			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	.257	.146	.046	.249	.142	.045	.236	.135	.043	.223	.129	.041	.211	.123	.040	
2.0	.249	.137	.042	.243	.134	.041	.231	.128	.040	.220	.123	.039	.210	.119	.037	
3.0	.236	.126	.038	.230	.123	.037	.220	.119	.036	.210	.115	.035	.201	.111	.034	
4.0	.222	.115	.034	.217	.113	.033	.207	.110	.033	.198	.107	.032	.190	.103	.032	
5.0	.208	.106	.031	.203	.104	.030	.195	.101	.030	.187	.099	.029	.180	.096	.029	
6.0	.195	.098	.028	.191	.096	.028	.183	.094	.027	.176	.092	.027	.170	.089	.027	
7.0	.183	.090	.026	.180	.089	.025	.173	.087	.025	.167	.085	.025	.161	.083	.025	
8.0	.172	.084	.024	.169	.083	.024	.163	.081	.023	.157	.080	.023	.152	.078	.023	
9.0	.163	.079	.022	.160	.078	.022	.154	.076	.022	.149	.075	.021	.144	.073	.021	
10.0	.154	.074	.020	.151	.073	.020	.146	.072	.020	.142	.070	.020	.137	.069	.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	.200	.200	.200	.171	.171	.171	.117	.117	.117	.067	.067	.067	.021	.021	.021	
1.0	.187	.167	.149	.160	.143	.128	.109	.098	.088	.063	.057	.051	.020	.018	.017	
2.0	.177	.142	.113	.151	.122	.098	.104	.085	.068	.060	.049	.040	.019	.016	.013	
3.0	.168	.124	.089	.144	.107	.077	.099	.074	.054	.057	.043	.032	.018	.014	.010	
4.0	.160	.111	.073	.138	.096	.063	.095	.067	.044	.055	.039	.026	.018	.013	.009	
5.0	.153	.100	.061	.131	.086	.053	.090	.060	.037	.052	.035	.022	.017	.012	.007	
6.0	.146	.091	.052	.126	.079	.045	.087	.055	.032	.050	.033	.019	.016	.011	.006	
7.0	.140	.084	.046	.120	.073	.040	.083	.051	.028	.048	.030	.017	.016	.010	.006	
8.0	.134	.079	.041	.115	.068	.036	.080	.048	.025	.046	.028	.015	.015	.009	.005	
9.0	.128	.074	.037	.110	.064	.032	.076	.045	.023	.045	.027	.014	.014	.009	.005	
10.0	.123	.069	.034	.106	.060	.030	.073	.042	.021	.043	.025	.013	.014	.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:0.2404A P:5.7691W PF:1.0000 Freq:50.04Hz Lamp Flux:183.68x1 lm											
NAME: 硬灯条						TYPE:RR20-SUPER-11-40			WEIGHT:		
SPEC.:RR20-SUPER-11-40						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		14.5	15.9	14.8	16.1	16.3	9.9	11.3	10.2	11.5	11.7
	3H	16.0	17.3	16.3	17.5	17.8	10.3	11.6	10.6	11.8	12.1
	4H	16.6	17.8	16.9	18.0	18.3	10.3	11.5	10.6	11.8	12.0
	6H	17.0	18.1	17.3	18.4	18.7	10.2	11.3	10.6	11.6	11.9
	8H	17.1	18.1	17.4	18.4	18.8	10.2	11.2	10.5	11.5	11.8
	12H	17.1	18.2	17.5	18.5	18.8	10.1	11.1	10.5	11.4	11.8
4H	2H	14.4	15.6	14.8	15.9	16.2	10.4	11.6	10.8	11.9	12.2
	3H	16.0	17.0	16.3	17.3	17.6	10.9	11.9	11.3	12.2	12.6
	4H	16.6	17.5	17.0	17.8	18.2	10.9	11.8	11.3	12.2	12.5
	6H	17.0	17.8	17.4	18.2	18.6	10.8	11.6	11.2	12.0	12.4
	8H	17.2	17.9	17.6	18.3	18.7	10.8	11.5	11.2	11.9	12.3
	12H	17.2	17.9	17.7	18.3	18.8	10.7	11.4	11.2	11.8	12.3
8H	4H	16.5	17.2	16.9	17.6	18.0	11.0	11.7	11.4	12.1	12.5
	6H	16.9	17.5	17.4	18.0	18.4	10.9	11.5	11.3	11.9	12.4
	8H	17.1	17.6	17.6	18.1	18.5	10.8	11.4	11.3	11.8	12.3
	12H	17.2	17.6	17.7	18.1	18.6	10.8	11.3	11.3	11.7	12.2
12H	4H	16.4	17.1	16.9	17.5	17.9	11.0	11.6	11.4	12.0	12.5
	6H	16.9	17.4	17.4	17.9	18.3	10.9	11.4	11.3	11.9	12.3
	8H	17.0	17.5	17.5	18.0	18.5	10.8	11.3	11.3	11.8	12.3
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 0.2					+ 1.0 / - 1.4				
1.5H		+ 0.3 / - 0.5					+ 0.4 / - 0.8				
2.0H		+ 1.1 / - 1.7					+ 2.0 / - 3.2				

CIE Pub.117, 183.7 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -5.9)

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:0.2404A P:5.7691W PF:1.0000 Freq:50.04Hz Lamp Flux:183.68x1 lm		
NAME: 硬灯条	TYPE:RR20-SUPER-11-40	WEIGHT:
SPEC.:RR20-SUPER-11-40	DIM.: 0.1X0.5	SERIAL No.:
MFR.: 乐的美光电	SUR.:0.1X0.5	Shielding Angle:

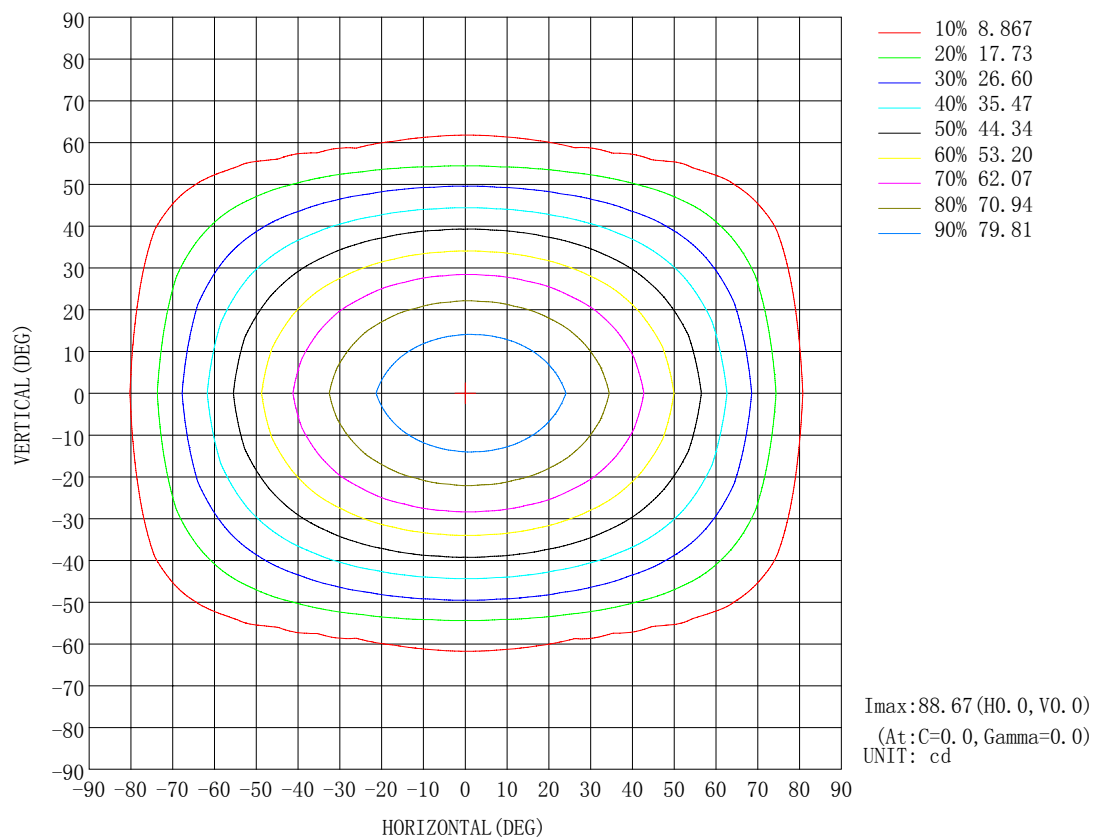
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	63	53	46	63	53	46	61	52	46	40
0.80	73	63	57	72	63	56	71	62	56	50
1.00	82	72	66	81	71	65	78	72	65	58
1.25	88	79	73	87	79	73	84	77	72	65
1.50	93	85	79	91	84	78	88	82	77	70
2.00	99	92	86	97	91	86	94	88	84	77
2.50	102	96	91	100	94	90	96	92	88	80
3.00	105	99	95	103	98	94	99	95	91	83
4.00	108	104	100	106	102	98	102	98	96	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:0.2404A P:5.7691W PF:1.0000 Freq:50.04Hz Lamp Flux:183.68x1 lm		
NAME: 硬灯条	TYPE:RR20-SUPER-11-40	WEIGHT:
SPEC.:RR20-SUPER-11-40	DIM.: 0.1X0.5	SERIAL No.:
MFR.: 乐的美光电	SUR.:0.1X0.5	Shielding Angle:



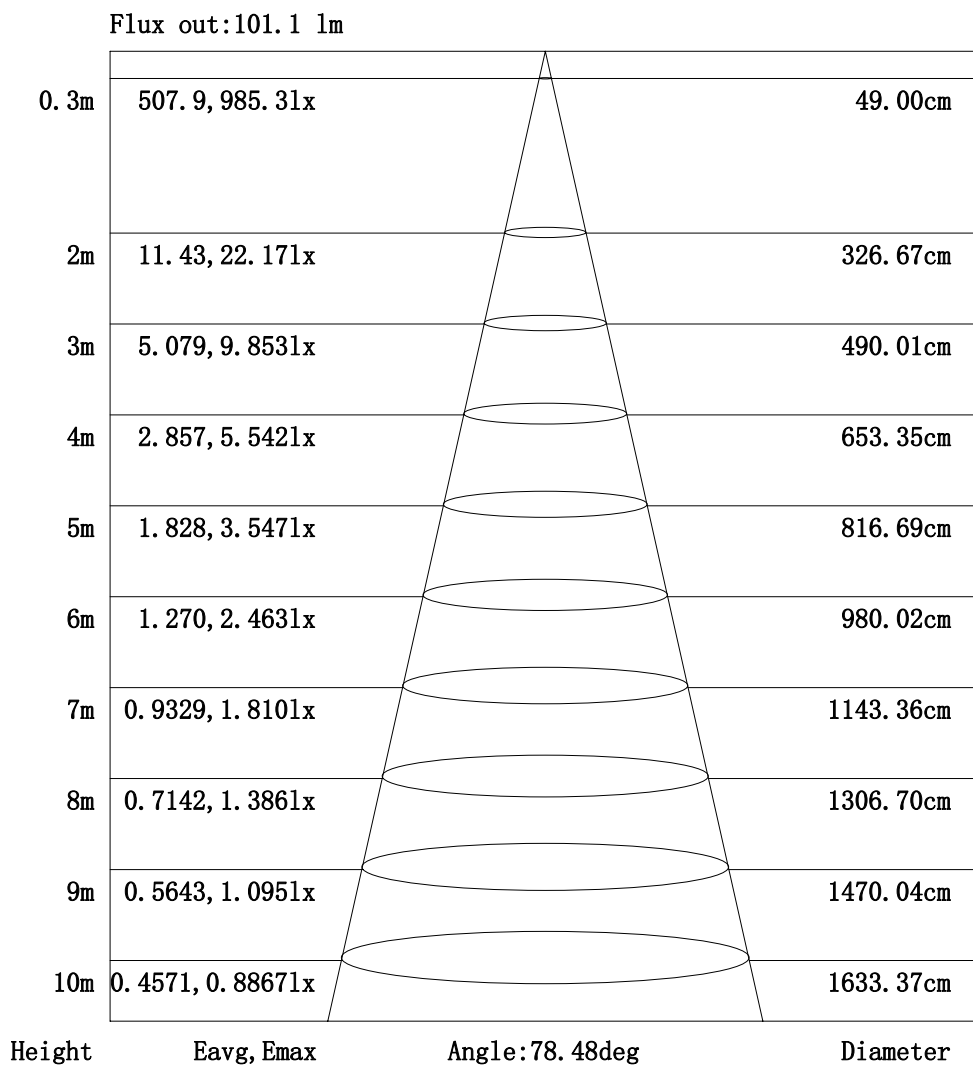
C Range: 0 - 180DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-04-06

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:0.2404A P:5.7691W PF:1.0000 Freq:50.04Hz Lamp Flux:183.68x1 lm		
NAME: 硬灯条	TYPE:RR20-SUPER-11-40	WEIGHT:
SPEC.:RR20-SUPER-11-40	DIM.: 0.1X0.5	SERIAL No.:
MFR.: 乐的美光电	SUR.:0.1X0.5	Shielding Angle:



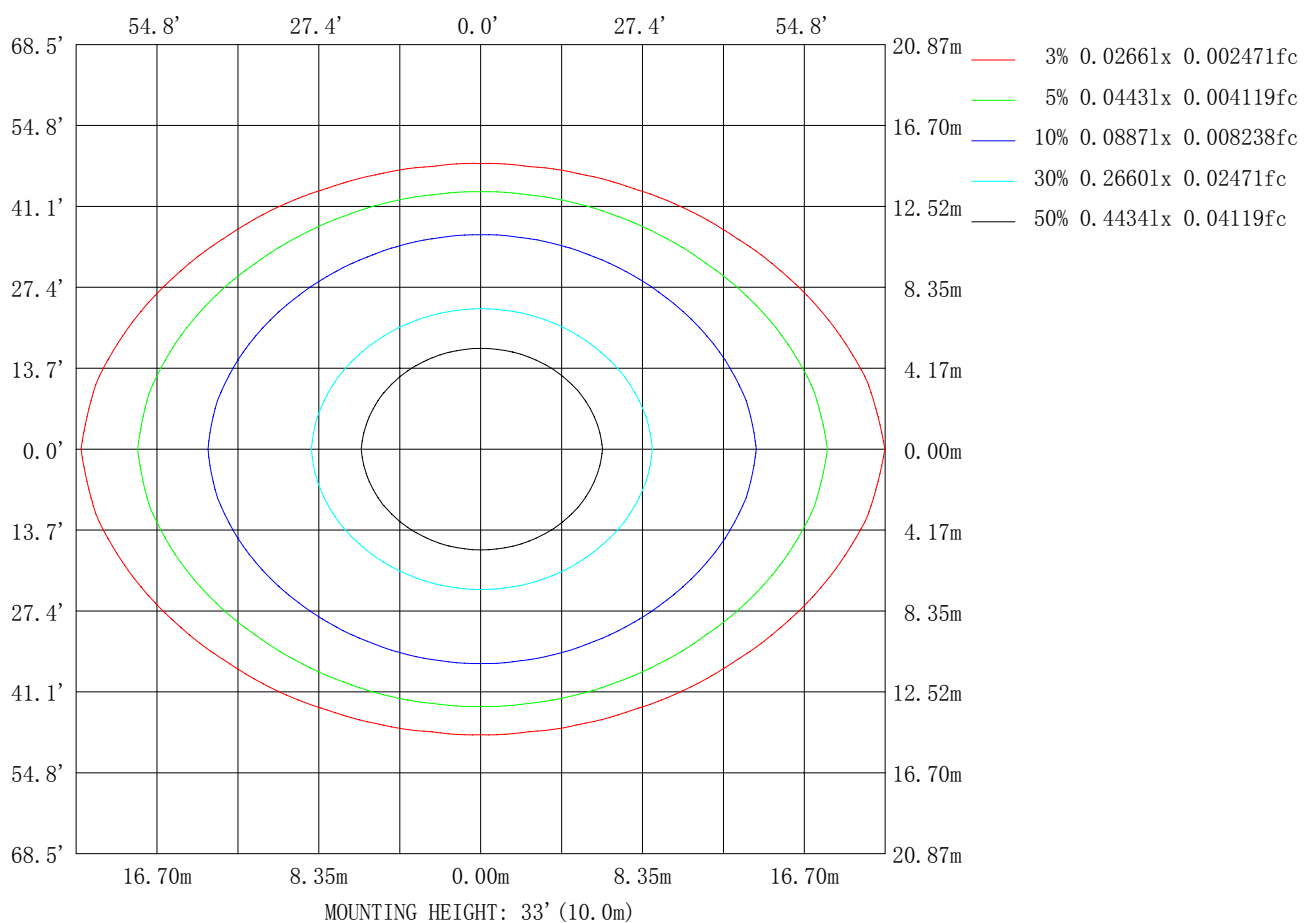
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.2404A P:5.7691W PF:1.0000 Freq:50.04Hz Lamp Flux:183.68x1 lm		
NAME: 硬灯条	TYPE:RR20-SUPER-11-40	WEIGHT:
SPEC.:RR20-SUPER-11-40	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:0.2404A P:5.7691W PF:1.0000 Freq:50.04Hz Lamp Flux:183.68x1 lm		
NAME: 硬灯条	TYPE:RR20-SUPER-11-40	WEIGHT:
SPEC.:RR20-SUPER-11-40	DIM.: 0.1X0.5	SERIAL No.:
MFR.: 乐的美光电	SUR.:0.1X0.5	Shielding Angle:

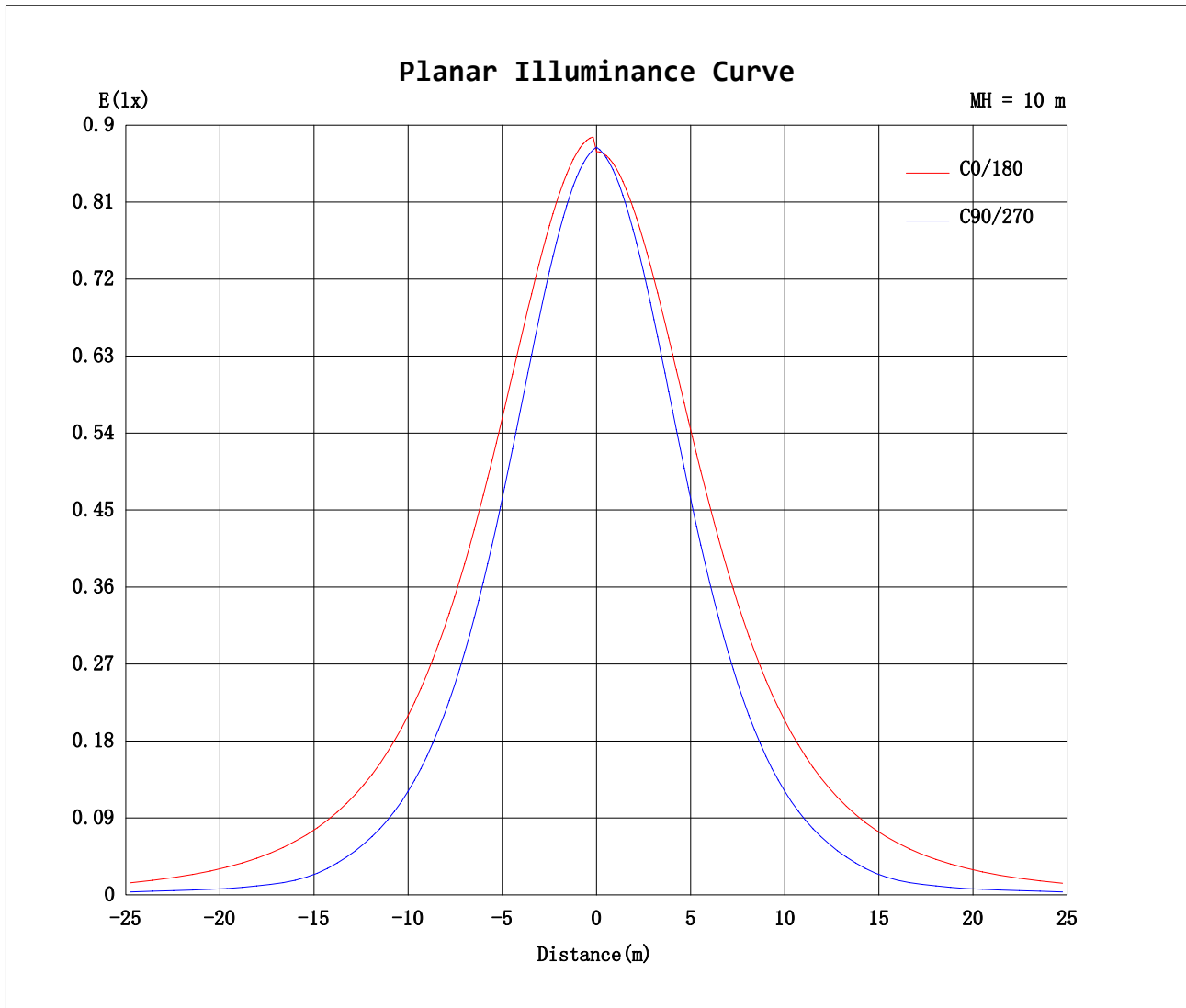
AvgL	cd/m2
L_0~180(65)av	1482
L_0~180(75)av	1258
L_0~180(85)av	831
L_90~270(65)av	376
L_90~270(75)av	116
L_90~270(85)av	0
L_45(65)av	436
L_45(75)av	263
L_45(85)av	10

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:0.2404A P:5.7691W PF:1.0000 Freq:50.04Hz Lamp Flux:183.68x1 lm		
NAME: 硬灯条	TYPE:RR20-SUPER-11-40	WEIGHT:
SPEC.:RR20-SUPER-11-40	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	88.7	88.4	88.4	88.1	88.1	87.8	87.8	87.6	87.6	87.4	87.4	87.3	87.3	87.1	87.1	87.0	87.0	86.9	86.9
5	88.3	87.8	87.6	87.1	86.9	86.5	86.4	86.0	86.0	85.8	85.8	85.7	85.8	85.8	85.9	86.0	86.2	86.3	86.5
10	87.2	86.4	86.0	85.3	84.8	84.2	83.8	83.4	83.2	83.0	83.0	83.0	83.2	83.5	83.8	84.1	84.6	84.9	85.3
15	85.2	84.3	83.6	82.6	81.8	80.9	80.1	79.5	79.1	78.9	78.9	79.2	79.5	80.1	80.7	81.4	82.1	82.7	83.3
20	82.6	81.5	80.4	79.1	77.8	76.5	75.3	74.4	73.7	73.5	73.5	74.1	74.7	75.8	76.8	77.9	78.9	79.8	80.6
25	79.1	77.9	76.4	74.8	72.8	71.1	69.3	68.2	67.2	67.1	67.0	67.9	68.8	70.4	71.9	73.6	75.0	76.3	77.2
30	75.1	73.7	71.7	69.6	66.9	64.7	62.5	61.0	59.9	59.6	59.8	60.7	62.0	64.1	66.1	68.5	70.4	72.1	73.2
35	70.4	68.8	66.4	63.6	60.3	57.5	55.0	53.2	51.9	51.6	51.8	52.9	54.6	57.0	59.6	62.6	65.1	67.2	68.6
40	65.2	63.4	60.3	56.9	53.0	49.7	46.8	44.8	43.4	43.1	43.3	44.6	46.5	49.3	52.4	56.1	59.2	61.9	63.4
45	59.4	57.3	53.7	49.6	45.2	41.4	38.3	36.1	34.7	34.3	34.6	36.0	38.1	41.2	44.8	48.9	52.7	56.0	57.8
50	53.1	50.8	46.5	41.8	36.9	32.9	29.6	27.5	26.1	25.8	26.1	27.4	29.5	32.8	36.7	41.3	45.8	49.6	51.6
55	46.4	43.8	39.0	33.6	28.4	24.3	21.0	18.6	16.9	16.5	16.9	18.7	21.1	24.3	28.3	33.3	38.4	42.8	45.0
60	39.3	36.3	30.9	25.2	19.9	15.6	11.8	10.2	9.92	9.93	9.85	10.2	11.9	15.8	20.0	25.1	30.5	35.5	37.9
65	31.9	28.6	22.8	16.9	11.3	7.58	7.12	7.34	7.87	7.95	7.78	7.15	7.01	7.57	11.7	17.0	22.5	27.9	30.7
70	24.4	20.7	14.7	8.81	5.25	5.28	5.76	5.72	5.54	5.57	5.50	5.66	5.64	5.02	5.04	9.14	14.7	20.2	23.2
75	16.8	13.1	7.22	3.65	3.71	3.11	2.32	1.87	1.53	1.50	1.53	1.90	2.35	3.08	3.52	3.38	7.41	12.8	15.8
80	9.81	6.29	2.53	1.95	0.95	0.23	0.11	0.00	0.04	0.00	0.04	0.00	0.12	0.25	0.92	1.81	2.14	6.25	9.13
85	3.95	1.49	0.56	0.21	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.01	0.43	1.13	3.30
90	0.18	0.14	0.15	0.06	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	0.12
95	0.11	0.07	0.10	0.06	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
100	0.01	0.07	0.08	0.07	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.08	0.00
105	0.09	0.16	0.08	0.12	0.03	0.05	0.00	0.01	0.00	0.02	0.00	0.02	0.00	0.03	0.00	0.10	0.10	0.17	0.10
110	0.20	0.28	0.13	0.19	0.09	0.12	0.01	0.06	0.00	0.07	0.00	0.07	0.00	0.10	0.10	0.19	0.16	0.28	0.22
115	0.32	0.37	0.24	0.28	0.15	0.19	0.10	0.14	0.08	0.14	0.08	0.16	0.11	0.19	0.17	0.31	0.28	0.37	0.33
120	0.39	0.46	0.33	0.37	0.24	0.28	0.20	0.24	0.14	0.23	0.15	0.23	0.21	0.31	0.28	0.42	0.37	0.47	0.44
125	0.47	0.55	0.44	0.46	0.34	0.39	0.30	0.34	0.25	0.33	0.25	0.34	0.31	0.43	0.40	0.52	0.47	0.55	0.48
130	0.56	0.64	0.54	0.57	0.45	0.49	0.43	0.44	0.34	0.43	0.36	0.45	0.43	0.54	0.49	0.61	0.57	0.64	0.57
135	0.62	0.72	0.60	0.66	0.59	0.60	0.49	0.55	0.45	0.54	0.45	0.56	0.54	0.66	0.60	0.70	0.63	0.71	0.66
140	0.69	0.79	0.69	0.75	0.69	0.71	0.59	0.63	0.57	0.64	0.57	0.67	0.68	0.76	0.69	0.77	0.69	0.78	0.70
145	0.75	0.86	0.78	0.84	0.74	0.81	0.69	0.74	0.67	0.74	0.67	0.79	0.76	0.86	0.77	0.83	0.74	0.83	0.80
150	0.81	0.93	0.84	0.91	0.82	0.89	0.79	0.83	0.74	0.82	0.79	0.90	0.85	0.93	0.81	0.88	0.81	0.87	0.83
155	0.86	0.99	0.93	0.99	0.92	0.96	0.84	0.92	0.82	0.91	0.86	1.00	0.93	0.99	0.86	0.93	0.84	0.93	0.90
160	0.92	1.05	0.97	1.04	0.95	1.01	0.92	0.99	0.92	0.99	0.95	1.09	1.01	1.04	0.92	0.98	0.90	0.99	0.93
165	0.99	1.10	1.04	1.10	1.02	1.08	0.98	1.07	0.97	1.08	1.05	1.14	1.07	1.07	0.96	1.03	0.94	1.04	1.01
170	1.07	1.17	1.10	1.19	1.08	1.16	1.06	1.14	1.07	1.16	1.13	1.22	1.10	1.14	1.04	1.11	1.04	1.14	1.08
175	1.18	1.25	1.16	1.25	1.15	1.20	1.18	1.20	1.16	1.25	1.21	1.31	1.17	1.22	1.15	1.20	1.18	1.25	1.17
180	1.28	1.31	1.31	1.31	1.26	1.26	1.25	1.31	1.30	1.31	1.32	1.34	1.28	1.31	1.29	1.31	1.31	1.31	1.28

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:0.2404A P:5.7691W PF:1.0000 Freq:50.04Hz Lamp Flux:183.68x1 lm		
NAME: 硬灯条	TYPE:RR20-SUPER-11-40	WEIGHT:
SPEC.:RR20-SUPER-11-40	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	0	86.9	87.0	87.0	87.1	87.1	87.3	87.3	87.4	87.4	87.6	87.6	87.8	87.8	88.1	88.1	88.4	88.4	
5	5	86.3	86.2	86.0	85.9	85.8	85.8	85.7	85.8	85.8	86.0	86.0	86.4	86.5	86.9	87.1	87.6	87.8	
10	10	84.9	84.6	84.1	83.8	83.5	83.2	83.0	83.0	83.0	83.2	83.4	83.8	84.2	84.8	85.3	86.0	86.4	
15	15	82.7	82.1	81.4	80.7	80.1	79.5	79.2	78.9	78.9	79.1	79.5	80.1	80.9	81.8	82.6	83.6	84.3	
20	20	79.8	78.9	77.9	76.8	75.8	74.7	74.1	73.5	73.5	73.7	74.4	75.3	76.5	77.8	79.1	80.4	81.5	
25	25	76.3	75.0	73.6	71.9	70.4	68.8	67.9	67.0	67.1	67.2	68.2	69.3	71.1	72.8	74.8	76.4	77.9	
30	30	72.1	70.4	68.5	66.1	64.1	62.0	60.7	59.8	59.6	59.9	61.0	62.5	64.7	66.9	69.6	71.7	73.7	
35	35	67.2	65.1	62.6	59.6	57.0	54.6	52.9	51.8	51.6	51.9	53.2	55.0	57.5	60.3	63.6	66.4	68.8	
40	40	61.9	59.2	56.1	52.4	49.3	46.5	44.6	43.3	43.1	43.4	44.8	46.8	49.7	53.0	56.9	60.3	63.4	
45	45	56.0	52.7	48.9	44.8	41.2	38.1	36.0	34.6	34.3	34.7	36.1	38.3	41.4	45.2	49.6	53.7	57.3	
50	50	49.6	45.8	41.3	36.7	32.8	29.5	27.4	26.1	25.8	26.1	27.5	29.6	32.9	36.9	41.8	46.5	50.8	
55	55	42.8	38.4	33.3	28.3	24.3	21.1	18.7	16.9	16.5	16.9	18.6	21.0	24.3	28.4	33.6	39.0	43.8	
60	60	35.5	30.5	25.1	20.0	15.8	11.9	10.2	9.85	9.93	9.92	10.2	11.8	15.6	19.9	25.2	30.9	36.3	
65	65	27.9	22.5	17.0	11.7	7.57	7.01	7.15	7.78	7.95	7.87	7.34	7.12	7.58	11.3	16.9	22.8	28.6	
70	70	20.2	14.7	9.14	5.04	5.02	5.64	5.66	5.50	5.57	5.54	5.72	5.76	5.28	5.25	8.81	14.7	20.7	
75	75	12.8	7.41	3.38	3.52	3.08	2.35	1.90	1.53	1.50	1.53	1.87	2.32	3.11	3.71	3.65	7.22	13.1	
80	80	6.25	2.14	1.81	0.92	0.25	0.12	0.00	0.04	0.00	0.04	0.00	0.11	0.23	0.95	1.95	2.53	6.29	
85	85	1.13	0.43	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.21	0.56	1.49	
90	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	0.04	0.06	0.15	0.14	
95	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	0.03	0.06	0.10	0.07	
100	100	0.08	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.07	0.08	0.07	
105	105	0.17	0.10	0.10	0.00	0.03	0.00	0.02	0.00	0.02	0.00	0.01	0.00	0.05	0.03	0.12	0.08	0.16	
110	110	0.28	0.16	0.19	0.10	0.10	0.00	0.07	0.00	0.07	0.00	0.06	0.01	0.12	0.09	0.19	0.13	0.28	
115	115	0.37	0.28	0.31	0.17	0.19	0.11	0.16	0.08	0.14	0.08	0.14	0.10	0.19	0.15	0.28	0.24	0.37	
120	120	0.47	0.37	0.42	0.28	0.31	0.21	0.23	0.15	0.23	0.14	0.24	0.20	0.28	0.24	0.37	0.33	0.46	
125	125	0.55	0.47	0.52	0.40	0.43	0.31	0.34	0.25	0.33	0.25	0.34	0.30	0.39	0.34	0.46	0.44	0.55	
130	130	0.64	0.57	0.61	0.49	0.54	0.43	0.45	0.36	0.43	0.34	0.44	0.43	0.49	0.45	0.57	0.54	0.64	
135	135	0.71	0.63	0.70	0.60	0.66	0.54	0.56	0.45	0.54	0.45	0.55	0.49	0.60	0.59	0.66	0.60	0.72	
140	140	0.78	0.69	0.77	0.69	0.76	0.68	0.67	0.57	0.64	0.57	0.63	0.59	0.71	0.69	0.75	0.69	0.79	
145	145	0.83	0.74	0.83	0.77	0.86	0.76	0.79	0.67	0.74	0.67	0.74	0.69	0.81	0.74	0.84	0.78	0.86	
150	150	0.87	0.81	0.88	0.81	0.93	0.85	0.90	0.79	0.82	0.74	0.83	0.79	0.89	0.82	0.91	0.84	0.93	
155	155	0.93	0.84	0.93	0.86	0.99	0.93	1.00	0.86	0.91	0.82	0.92	0.84	0.96	0.92	0.99	0.93	0.99	
160	160	0.99	0.90	0.98	0.92	1.04	1.01	1.09	0.95	0.99	0.92	0.99	0.92	1.01	0.95	1.04	0.97	1.05	
165	165	1.04	0.94	1.03	0.96	1.07	1.07	1.14	1.05	1.08	0.97	1.07	0.98	1.08	1.02	1.10	1.04	1.10	
170	170	1.14	1.04	1.11	1.04	1.14	1.10	1.22	1.13	1.16	1.07	1.14	1.06	1.16	1.08	1.19	1.10	1.17	
175	175	1.25	1.18	1.20	1.15	1.22	1.17	1.31	1.21	1.25	1.16	1.20	1.18	1.20	1.15	1.25	1.16	1.25	
180	180	1.31	1.31	1.31	1.29	1.31	1.28	1.34	1.32	1.31	1.30	1.31	1.25	1.26	1.26	1.31	1.31	1.31	

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: