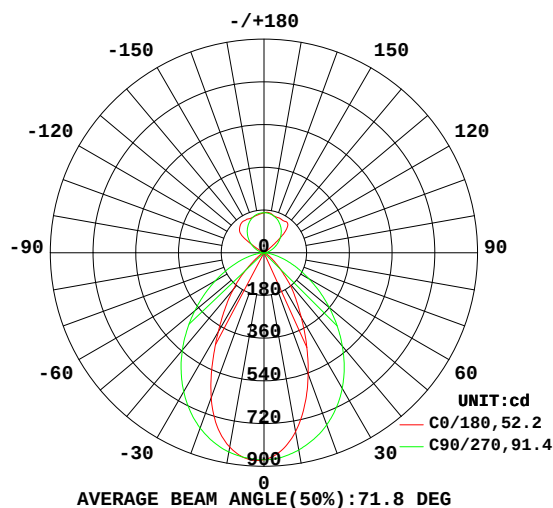


LUMINAIRE PHOTOMETRIC TEST REPORT

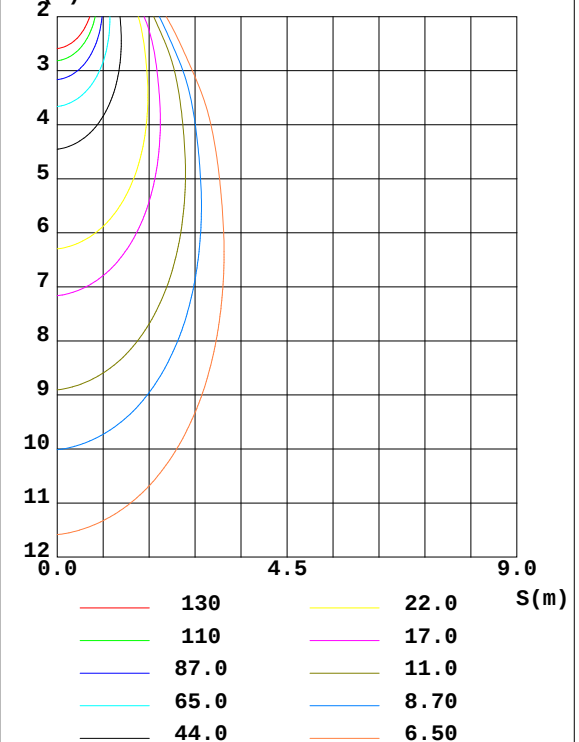
Test:U:120.0V I:0.1330A P:15.70W PF:0.9900 Freq:60.00Hz Lamp Flux:1652.36x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 3500K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:0.38*0.017+0.605*0.017	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 105.25 lm/W			
MODEL	上下发光	I _{max} (cd)	879.6	S/MH(C0/180)	0.75
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.16
RATED VOLTAGE(V)	120.0	TOTAL FLUX(lm)	1652.4	η UP, DN(C0-180)	12.8, 37.3
NOMINAL FLUX(lm)	1652.36	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	12.7, 37.3
LAMPS INSIDE	1	η up(%)	25.4	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120.0	η down(%)	74.6	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: 何俊伟
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-2000_V1 SYSTEM V2.0.353
Humidity: 65.0%
Test Distance: 7.540m [K=1.3263]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

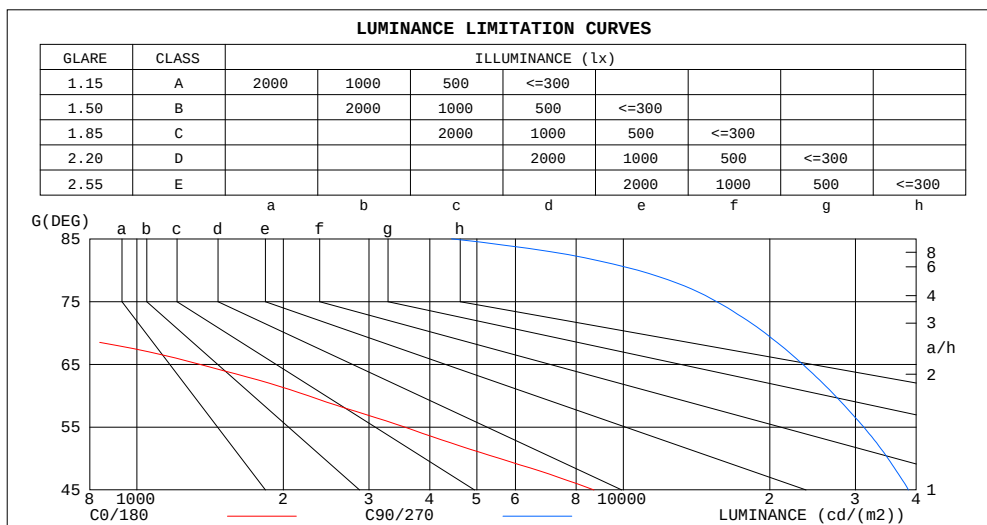
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	765.9	799.0	843.5	858.5	831.3	845.7	852.3	788.3	0- 10	80.91	80.91	4.9,4.9
20	544.6	641.1	772.2	752.3	650.4	731.5	786.5	624.7	10- 20	214.1	295.0	17.9,17.9
30	314.4	441.1	659.7	562.3	386.7	530.6	676.1	424.2	20- 30	273.4	568.4	34.4,34.4
40	160.0	266.1	513.5	347.5	200.1	323.5	535.1	255.2	30- 40	255.5	823.9	49.9,49.9
50	57.27	145.0	360.0	195.8	66.21	181.7	380.8	140.2	40- 50	196.0	1020	61.7,61.7
60	18.00	58.02	218.0	79.95	17.23	73.96	237.4	57.36	50- 60	124.8	1145	69.3,69.3
70	3.664	14.50	107.0	17.14	3.126	16.51	119.4	15.23	60- 70	61.13	1206	73,73
80	1.320	1.874	29.76	2.066	1.165	2.045	37.31	1.977	70- 80	22.32	1228	74.3,74.3
90	0.5959	1.120	0.1284	1.349	0.6696	1.278	0.0556	1.141	80- 90	3.985	1232	74.6,74.6
100	0.8545	1.404	10.81	2.797	1.719	2.752	9.419	1.415	90-100	2.029	1234	74.7,74.7
110	2.296	3.993	30.63	14.50	3.870	16.61	27.65	3.882	100-110	7.648	1242	75.2,75.2
120	5.354	42.88	57.13	92.29	18.47	90.64	53.23	45.60	110-120	29.27	1271	76.9,76.9
130	50.56	117.1	86.21	120.9	132.0	117.3	82.49	115.3	120-130	71.55	1343	81.3,81.3
140	156.7	130.1	113.4	134.7	154.4	129.8	109.9	128.1	130-140	92.82	1436	86.9,86.9
150	158.1	142.9	136.4	142.5	158.7	139.3	134.2	140.8	140-150	86.80	1522	92.1,92.1
160	159.6	152.9	154.4	153.0	156.5	152.7	153.3	154.7	150-160	68.86	1591	96.3,96.3
170	168.8	167.4	165.3	162.8	161.9	162.7	165.2	168.3	160-170	45.23	1636	99,99
180	167.5	167.5	167.5	167.5	167.5	167.5	167.5	167.5	170-180	15.96	1652	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:何俊伟
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 γ Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.353
 Humidity:65.0%
 Test Distance:7.540m [K=1.3263]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.1330A P:15.70W PF:0.9900 Freq:60.00Hz Lamp Flux:1652.36x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 3500K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:0.38*0.017+0.605*0.017	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	594	4435
80	475	10710
75	465	15547
70	670	19556
65	1346	23381
60	2250	27253
55	3553	31215
50	5568	35002
45	8698	38569

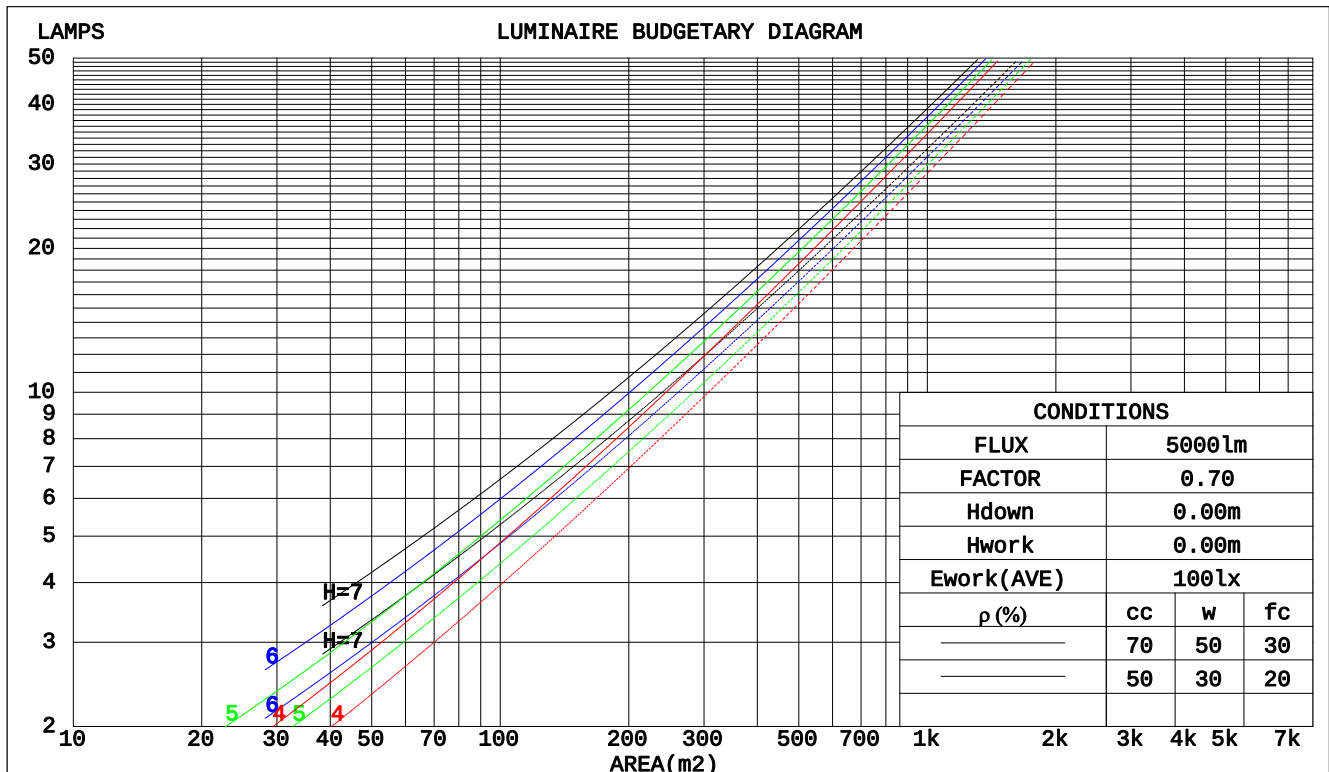
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:何俊伟
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.3263]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.1330A P:15.70W PF:0.9900 Freq:60.00Hz Lamp Flux:1652.36x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 3500K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:0.38*0.017+0.605*0.017	Shielding Angle:

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.13	1.13	1.13	1.07	1.07	1.07	.97	.97	.97	.87	.87	.87	.79	.79	.79	.75
1.0	1.02	.98	.95	.97	.94	.91	.88	.86	.84	.80	.78	.77	.73	.71	.70	.67
2.0	.91	.86	.81	.87	.82	.78	.80	.76	.73	.73	.70	.67	.66	.64	.62	.59
3.0	.82	.75	.70	.79	.73	.68	.72	.68	.64	.66	.63	.60	.61	.58	.56	.53
4.0	.74	.67	.62	.71	.65	.60	.66	.60	.56	.61	.56	.53	.56	.52	.50	.47
5.0	.67	.60	.55	.65	.58	.53	.60	.55	.50	.56	.51	.48	.51	.48	.45	.42
6.0	.62	.54	.49	.59	.52	.48	.55	.49	.45	.51	.46	.43	.47	.44	.41	.38
7.0	.56	.49	.44	.55	.48	.43	.51	.45	.41	.47	.43	.39	.44	.40	.37	.35
8.0	.52	.45	.40	.50	.44	.39	.47	.41	.37	.44	.39	.36	.41	.37	.34	.32
9.0	.48	.41	.36	.47	.40	.36	.44	.38	.34	.41	.36	.33	.38	.34	.31	.29
10.0	.45	.38	.33	.43	.37	.33	.41	.35	.31	.38	.34	.30	.36	.32	.29	.27



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:何俊伟
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.3263]
Remarks:

WEC AND CCEC

Test:U:120.0V I:0.1330A P:15.70W PF:0.9900 Freq:60.00Hz Lamp Flux:1652.36x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 3500K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:0.38*0.017+0.605*0.017	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.237	.135	.043	.223	.127	.040	.195	.112	.036	.170	.098	.032	.147	.085	.028		
2.0	.227	.124	.038	.214	.118	.036	.189	.105	.033	.167	.093	.029	.146	.082	.026		
3.0	.214	.114	.034	.202	.108	.033	.180	.097	.030	.159	.087	.027	.140	.078	.024		
4.0	.201	.104	.031	.190	.099	.029	.170	.090	.027	.151	.081	.024	.134	.073	.022		
5.0	.188	.096	.028	.179	.092	.027	.160	.084	.025	.143	.076	.022	.127	.068	.020		
6.0	.177	.089	.025	.168	.085	.024	.152	.078	.023	.136	.071	.021	.121	.064	.019		
7.0	.167	.083	.023	.159	.079	.023	.143	.072	.021	.129	.066	.019	.115	.060	.018		
8.0	.158	.077	.022	.150	.074	.021	.136	.068	.019	.122	.062	.018	.110	.056	.016		
9.0	.149	.072	.020	.142	.069	.019	.129	.064	.018	.116	.058	.017	.105	.053	.015		
10.0	.141	.068	.019	.135	.065	.018	.122	.060	.017	.111	.055	.016	.100	.050	.014		

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	.384	.384	.384	.328	.328	.328	.224	.224	.224	.129	.129	.129	.041	.041	.041	
1.0	.371	.352	.335	.317	.302	.289	.217	.208	.200	.125	.120	.116	.040	.039	.038	
2.0	.360	.329	.303	.309	.283	.262	.211	.196	.182	.122	.114	.107	.039	.037	.035	
3.0	.351	.312	.280	.301	.269	.243	.207	.187	.170	.119	.109	.100	.038	.035	.033	
4.0	.343	.298	.264	.295	.258	.229	.203	.180	.162	.117	.105	.096	.038	.034	.031	
5.0	.336	.288	.253	.289	.249	.220	.199	.174	.155	.115	.102	.092	.037	.033	.030	
6.0	.330	.280	.244	.283	.242	.213	.196	.170	.150	.113	.100	.089	.037	.033	.030	
7.0	.324	.273	.238	.278	.237	.207	.192	.166	.147	.112	.098	.087	.036	.032	.029	
8.0	.318	.268	.233	.274	.232	.203	.189	.163	.144	.110	.096	.086	.036	.032	.028	
9.0	.313	.263	.229	.270	.228	.200	.187	.160	.142	.109	.095	.085	.035	.031	.028	
10.0	.308	.259	.226	.266	.225	.197	.184	.158	.140	.107	.094	.084	.035	.031	.028	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:何俊伟
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.353
 Humidity:65.0%
 Test Distance:7.540m [K=1.3263]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.1330A P:15.70W PF:0.9900 Freq:60.00Hz Lamp Flux:1652.36x1 lm											
NAME: 12代 2FT 黑色					TYPE:15W 3500K			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: WS					SUR.:0.38*0.017+0.605*0.017			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	14.6	15.6	15.2	16.2	16.8	22.6	23.6	23.2	24.2	24.8	
	3H	14.3	15.3	15.0	15.9	16.5	23.5	24.5	24.2	25.0	25.7
	4H	14.2	15.1	14.8	15.7	16.4	23.8	24.7	24.5	25.3	26.0
	6H	14.1	14.9	14.7	15.5	16.2	24.0	24.7	24.6	25.4	26.1
	8H	14.0	14.8	14.7	15.4	16.2	23.9	24.7	24.6	25.3	26.1
	12H	13.9	14.6	14.6	15.3	16.1	23.9	24.6	24.6	25.3	26.0
4H	2H	15.3	16.2	15.9	16.8	17.5	22.3	23.1	22.9	23.8	24.5
	3H	15.0	15.8	15.7	16.4	17.2	23.3	24.0	24.0	24.7	25.5
	4H	14.9	15.5	15.6	16.2	17.0	23.7	24.3	24.4	25.0	25.8
	6H	14.7	15.3	15.5	16.0	16.9	23.9	24.4	24.6	25.2	26.0
	8H	14.7	15.2	15.4	15.9	16.8	23.9	24.4	24.6	25.1	26.0
	12H	14.6	15.1	15.4	15.8	16.7	23.9	24.3	24.6	25.1	26.0
8H	4H	15.0	15.5	15.8	16.3	17.1	23.5	24.0	24.2	24.7	25.6
	6H	14.9	15.3	15.6	16.1	17.0	23.7	24.1	24.5	24.9	25.8
	8H	14.8	15.2	15.6	15.9	16.9	23.7	24.1	24.5	24.9	25.8
	12H	14.7	15.0	15.5	15.8	16.8	23.7	24.0	24.5	24.8	25.8
12H	4H	15.0	15.5	15.8	16.2	17.1	23.4	23.9	24.2	24.6	25.5
	6H	14.9	15.2	15.7	16.0	17.0	23.6	24.0	24.4	24.8	25.7
	8H	14.8	15.1	15.6	15.9	16.9	23.6	24.0	24.5	24.8	25.7
Variations with the observer position at spacings:											
S = 1.0H	+ 1.9 / - 3.8					+ 0.4 / - 0.3					
1.5H	+ 1.4 / - 2.5					+ 0.9 / - 1.3					
2.0H	+ 2.7 / - 4.3					+ 1.9 / - 2.7					

CIE Pub.117 Corrected 1652 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.7)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:何俊伟
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.3263]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.1330A P:15.70W PF:0.9900 Freq:60.00Hz Lamp Flux:1652.36x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 3500K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:0.38*0.017+0.605*0.017	Shielding Angle:

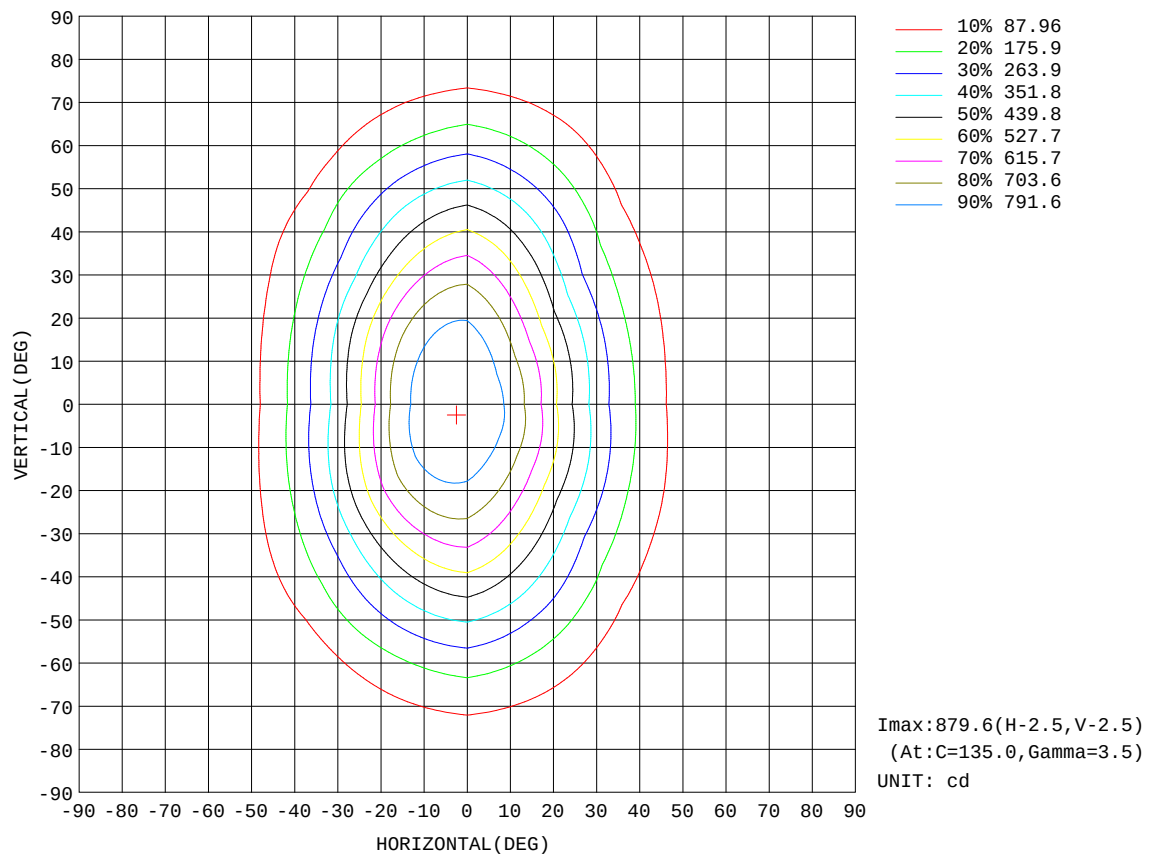
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	51	45	59	50	45	56	48	44	37
0.80	70	60	54	68	59	54	64	57	52	44
1.00	77	68	62	75	66	61	70	64	59	50
1.25	83	75	69	80	73	67	75	69	64	55
1.50	88	80	74	84	77	72	78	73	69	58
2.00	93	86	81	90	83	79	83	78	74	62
2.50	96	90	85	92	87	82	85	81	77	64
3.00	99	93	89	95	90	86	87	83	80	66
4.00	102	98	94	98	94	90	89	86	84	68
5.00	104	100	97	100	96	93	91	88	86	69
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:何俊伟
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.353
 Humidity:65.0%
 Test Distance:7.540m [K=1.3263]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1330A P:15.70W PF:0.9900 Freq:60.00Hz Lamp Flux:1652.36x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 3500K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:0.38*0.017+0.605*0.017	Shielding Angle:

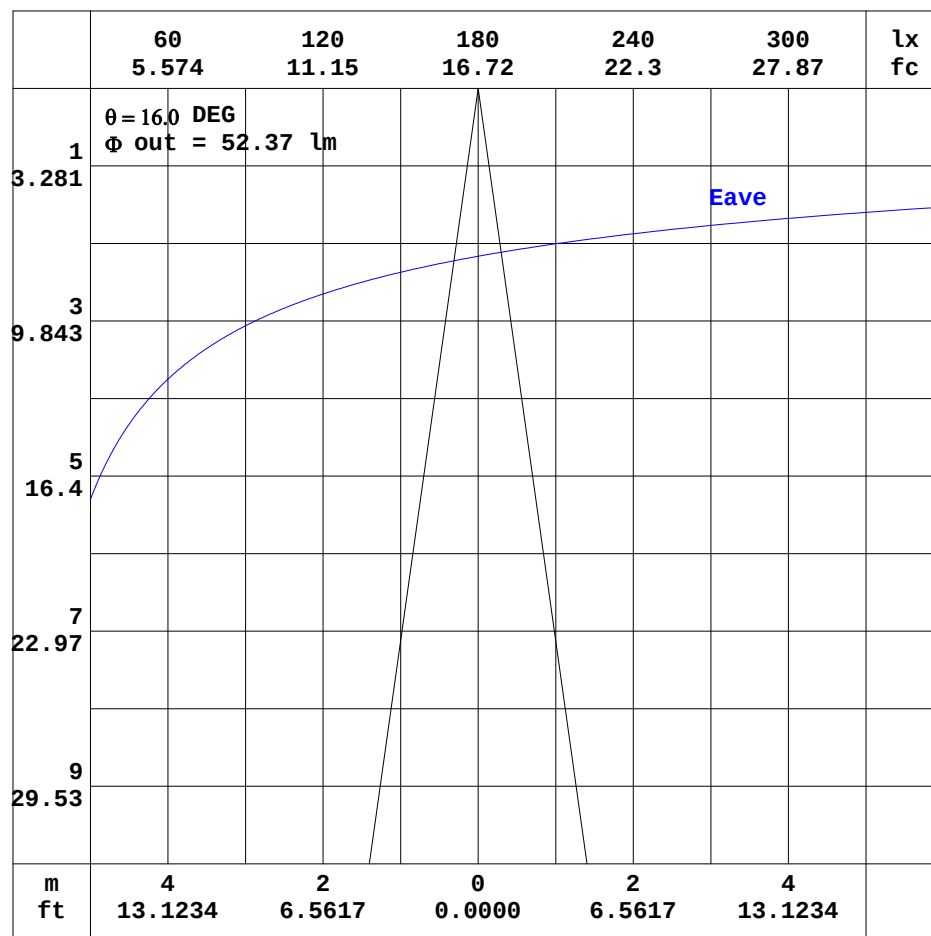


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:何俊伟
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.3263]
Remarks:

AAI CURVES

Test:U:120.0V I:0.1330A P:15.70W PF:0.9900 Freq:60.00Hz Lamp Flux:1652.36x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 3500K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:0.38*0.017+0.605*0.017	Shielding Angle:



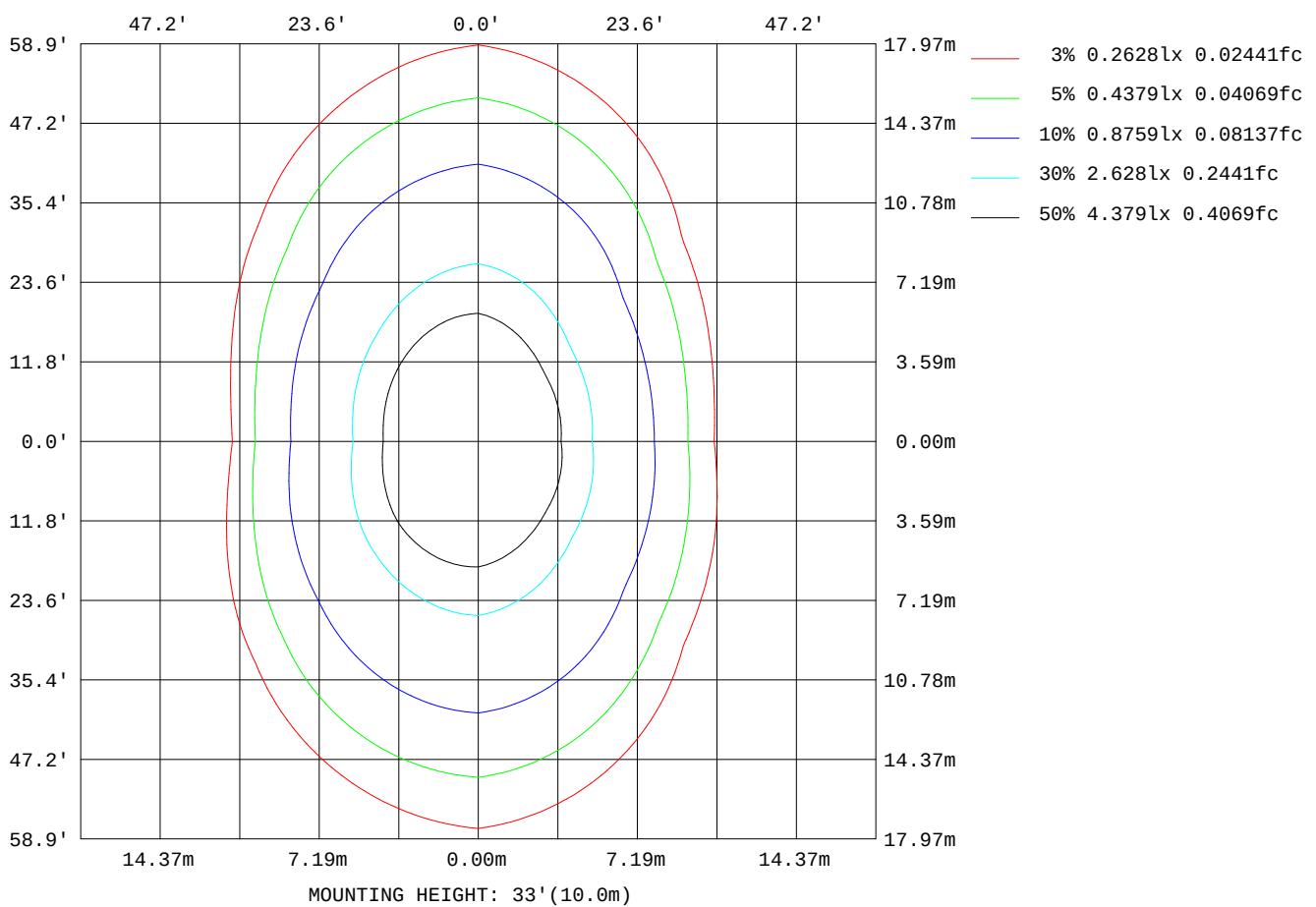
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: 何俊伟
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000_V1 SYSTEM V2.0.353
 Humidity: 65.0%
 Test Distance: 7.540m [K=1.3263]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.1330A P:15.70W PF:0.9900 Freq:60.00Hz Lamp Flux:1652.36x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 3500K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:0.38*0.017+0.605*0.017	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:何俊伟
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.3263]
Remarks:

LED Avg.L Report

Test:U:120.0V I:0.1330A P:15.70W PF:0.9900 Freq:60.00Hz Lamp Flux:1652.36x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 3500K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:0.38*0.017+0.605*0.017	Shielding Angle:

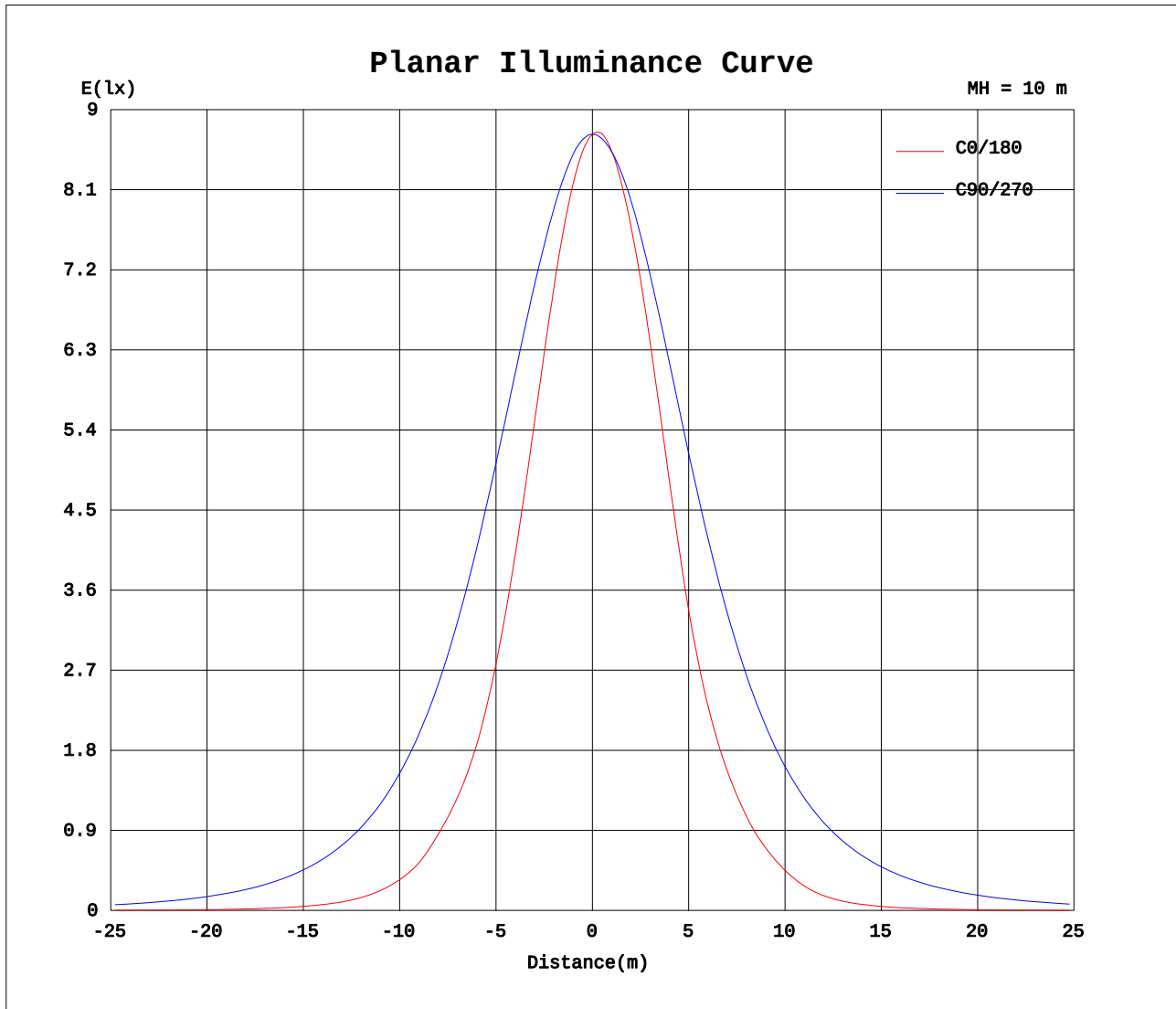
AvgL	cd/m2
L_0~180(65)av	1253
L_0~180(75)av	462
L_0~180(85)av	600
L_90~270(65)av	24624
L_90~270(75)av	16752
L_90~270(85)av	5855
L_45(65)av	5072
L_45(75)av	948
L_45(85)av	963

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:何俊伟
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.353
 Humidity:65.0%
 Test Distance:7.540m [K=1.3263]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: 何俊伟
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-2000_V1 SYSTEM V2.0.353
Humidity: 65.0%
Test Distance: 7.540m [K=1.3263]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1330A P:15.70W PF:0.9900 Freq:60.00Hz Lamp Flux:1652.36x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 3500K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:0.38*0.017+0.605*0.017	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872
5	837	838	839	840	841	842	844	845	846	848	850	852	854	855	857	859	861	863	865
10	766	769	772	776	779	783	787	791	795	799	804	809	815	820	825	830	835	839	843
15	664	670	676	683	690	697	705	712	720	728	739	749	759	770	779	789	798	806	813
20	545	554	563	573	583	594	605	617	629	641	657	674	690	706	721	736	750	762	772
25	423	434	444	456	469	482	496	510	526	542	564	587	609	631	652	672	691	707	721
30	314	324	335	346	359	373	389	405	422	441	468	496	524	551	577	602	624	643	660
35	231	238	246	256	268	280	295	311	329	348	378	409	439	470	499	526	551	572	590
40	160	165	171	180	190	202	215	230	247	266	297	328	360	392	422	450	475	496	514
45	98.4	103	109	118	127	139	151	166	182	200	230	260	291	321	350	376	400	420	436
50	57.3	60.7	65.8	72.4	80.6	90.3	102	115	129	145	172	200	227	255	281	305	327	346	360
55	32.6	33.5	35.9	39.9	45.5	52.6	61.3	71.5	83.2	96.5	120	144	169	193	216	238	257	274	286
60	18.0	16.5	16.5	18.0	21.0	25.4	31.4	38.8	47.7	58.0	77.5	97.9	119	139	159	177	193	207	218
65	9.10	6.39	4.98	4.86	6.02	8.49	12.2	17.3	23.6	31.2	46.6	62.7	79.2	95.5	111	126	139	150	158
70	3.66	0.84	0.15	0.14	0.12	0.11	1.82	5.04	9.26	14.5	25.6	37.3	49.3	61.2	72.7	83.4	92.9	101	107
75	1.92	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.39	3.50	10.6	18.2	26.1	33.9	41.5	48.6	54.9	60.3	64.4
80	1.32	0.08	0.09	0.09	0.10	0.10	0.10	0.11	0.46	1.87	5.14	8.62	12.2	15.8	19.3	22.5	25.4	27.9	29.8
85	0.83	0.65	0.53	0.47	0.46	0.50	0.61	0.76	0.98	1.25	1.83	2.45	3.09	3.73	4.34	4.91	5.42	5.85	6.18
90	0.60	0.73	0.84	0.94	1.02	1.07	1.11	1.13	1.14	1.12	1.02	0.90	0.77	0.65	0.52	0.40	0.29	0.20	0.13
95	0.51	0.49	0.52	0.60	0.66	0.72	0.75	0.80	0.92	1.06	1.31	1.58	1.86	2.13	2.40	2.64	2.87	3.06	3.22
100	0.85	0.48	0.37	0.43	0.48	0.52	0.55	0.58	0.91	1.40	2.49	3.65	4.85	6.05	7.21	8.31	9.30	10.1	10.8
105	1.23	0.53	0.27	0.31	0.34	0.37	0.40	0.61	1.34	2.27	4.30	6.46	8.70	10.9	13.1	15.1	17.0	18.6	19.8
110	2.30	1.25	0.52	0.28	0.31	0.33	0.66	1.46	2.57	3.99	6.96	10.1	13.4	16.8	20.0	23.1	26.0	28.5	30.6
115	3.50	2.92	2.66	2.74	3.14	3.87	4.92	6.31	8.02	10.1	13.3	16.7	20.4	24.2	28.1	32.0	35.9	39.6	43.2
120	5.35	10.7	15.7	20.5	24.9	29.1	33.0	36.6	39.9	42.9	44.8	46.5	48.0	49.5	50.8	52.2	53.7	55.3	57.1
125	12.2	26.0	38.6	49.9	60.0	68.9	76.5	82.9	88.0	91.9	91.7	90.5	88.5	85.9	83.0	79.9	76.8	74.0	71.7
130	50.6	62.8	73.8	83.6	92.2	99.6	106	111	115	117	115	113	110	106	102	97.3	93.1	89.4	86.2
135	126	127	128	128	128	128	128	127	126	125	122	119	115	112	109	106	104	102	100
140	157	153	150	147	144	141	138	135	133	130	127	125	122	120	118	116	115	114	113
145	161	158	155	152	149	147	144	142	140	138	135	133	132	130	129	127	126	126	126
150	158	156	154	152	150	149	147	145	144	143	142	141	140	139	138	137	137	137	136
155	160	158	156	154	153	151	150	149	148	147	147	146	146	146	146	146	146	146	146
160	160	158	157	156	156	155	154	154	153	153	153	153	153	153	153	154	154	154	154
165	161	161	161	161	161	161	161	161	161	161	161	161	161	161	161	161	161	161	161
170	169	169	169	168	168	168	168	168	168	167	167	167	167	166	166	166	166	166	165
175	171	171	171	171	171	171	171	171	171	170	170	170	170	169	169	169	169	168	168
180	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:何俊伟
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.3263]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1330A P:15.70W PF:0.9900 Freq:60.00Hz Lamp Flux:1652.36x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 3500K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:0.38*0.017+0.605*0.017	Shielding Angle:

Table--2

UNIT: cd

γ (DEG) \ C (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872
5	867	869	871	873	874	876	877	878	878	878	877	877	876	874	873	872	871	870	870
10	847	850	852	855	856	858	858	859	858	856	853	850	847	843	840	837	834	831	832
15	817	820	821	822	823	822	820	818	815	809	802	796	789	782	775	769	764	760	762
20	776	778	779	778	775	772	766	760	752	740	727	714	701	689	677	666	657	650	654
25	724	724	722	718	711	703	692	681	667	648	628	609	589	571	553	538	525	515	521
30	660	657	651	642	630	615	599	581	562	539	516	492	470	449	429	412	398	387	393
35	587	579	568	554	537	517	496	473	450	427	404	382	360	341	323	307	295	286	290
40	508	497	483	465	445	422	398	373	347	325	304	283	264	247	231	218	208	200	204
45	429	418	403	384	363	340	315	290	264	243	223	203	186	170	155	144	134	128	131
50	353	342	327	310	289	267	244	220	196	176	156	138	121	106	92.3	81.0	72.3	66.2	69.9
55	280	269	255	239	221	200	179	158	136	120	104	89.0	75.4	63.3	52.8	44.1	37.5	33.1	35.9
60	211	200	187	172	155	136	117	98.5	80.0	68.4	57.8	48.3	40.0	32.8	26.9	22.3	19.1	17.2	17.9
65	151	141	129	116	101	85.3	69.4	53.7	38.6	31.3	25.0	19.8	15.6	12.4	9.99	8.48	7.77	7.84	7.12
70	101	93.8	84.7	74.4	63.3	51.6	39.8	28.2	17.1	12.7	9.13	6.38	4.37	3.04	2.32	2.14	2.43	3.13	2.13
75	60.4	55.2	49.0	42.0	34.4	26.6	18.8	11.2	4.01	1.87	0.38	0.10	0.09	0.08	0.08	0.09	0.93	1.90	0.77
80	27.9	25.5	22.7	19.5	16.0	12.4	8.84	5.35	2.07	1.09	0.42	0.15	0.14	0.13	0.12	0.33	0.72	1.16	0.58
85	5.88	5.48	5.00	4.45	3.86	3.24	2.61	2.00	1.42	1.20	1.04	0.91	0.83	0.78	0.76	0.77	0.80	0.85	0.72
90	0.23	0.35	0.49	0.64	0.79	0.95	1.10	1.23	1.35	1.31	1.25	1.18	1.09	1.00	0.91	0.82	0.74	0.67	0.73
95	3.16	3.05	2.92	2.75	2.57	2.37	2.17	1.96	1.75	1.64	1.53	1.43	1.35	1.28	1.22	1.18	1.15	1.13	1.16
100	10.3	9.69	8.88	7.96	6.96	5.91	4.84	3.80	2.80	2.42	2.13	1.90	1.75	1.65	1.60	1.60	1.65	1.72	1.67
105	18.9	17.7	16.1	14.4	12.5	10.5	8.51	6.53	4.65	3.95	3.40	3.00	2.71	2.54	2.47	2.49	2.58	2.74	2.64
110	30.1	29.1	27.6	25.9	23.9	21.7	19.3	16.9	14.5	12.7	11.0	9.45	8.02	6.76	5.69	4.83	4.22	3.87	4.59
115	46.6	49.7	52.4	54.7	56.5	57.8	58.4	58.4	57.6	52.0	45.8	39.3	32.7	26.2	20.1	14.6	9.89	6.31	10.5
120	62.4	67.7	72.9	77.9	82.4	86.2	89.3	91.4	92.3	84.8	76.3	67.1	57.7	48.3	39.4	31.2	24.1	18.5	24.0
125	75.2	79.2	83.6	88.2	92.8	97.3	101	105	108	106	103	100	96.4	92.6	88.9	85.4	82.2	79.5	81.8
130	88.4	91.4	94.8	98.8	103	108	112	117	121	123	126	127	129	130	131	132	132	132	132
135	102	105	107	111	114	118	122	126	130	133	135	138	140	142	143	145	145	146	145
140	115	116	118	120	123	126	129	132	135	138	141	144	146	149	151	152	154	154	153
145	126	127	128	130	132	133	135	138	140	143	145	148	151	153	155	157	158	159	158
150	137	137	137	138	138	139	140	141	143	145	147	149	151	153	155	157	158	159	157
155	146	146	146	146	146	146	147	147	148	149	150	152	153	154	155	156	157	158	157
160	154	154	154	154	153	153	153	153	153	153	154	154	155	155	156	156	156	157	156
165	160	160	160	160	159	159	159	159	158	158	158	158	158	158	158	158	159	159	158
170	165	165	164	164	164	164	163	163	163	163	162	162	162	162	162	162	162	162	162
175	168	168	167	167	167	167	167	166	166	166	166	166	166	165	165	165	165	165	165
180	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:何俊伟
Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.3263]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1330A P:15.70W PF:0.9900 Freq:60.00Hz Lamp Flux:1652.36x1 lm																		
NAME: 12代 2FT 黑色									TYPE:15W 3500K					WEIGHT:				
SPEC.:									DIM.:					SERIAL No.:				
MFR.: WS									SUR.:0.38*0.017+0.605*0.017					Shielding Angle:				

Table--3

UNIT: cd

C(DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872
5	870	870	870	870	870	871	871	871	871	871	871	871	871	870	869	868	867	865	862
10	833	834	836	837	839	841	844	846	848	850	852	853	854	855	855	854	852	847	840
15	765	768	772	777	783	788	794	799	805	811	816	820	823	826	827	827	825	816	806
20	660	667	676	686	697	708	720	732	742	753	762	770	777	783	786	788	787	774	759
25	530	541	554	569	586	603	621	639	656	673	688	702	714	724	731	735	736	720	701
30	402	415	430	448	467	487	509	531	554	577	599	619	637	652	664	672	676	658	636
35	298	309	323	339	357	377	398	420	447	475	502	528	551	572	588	601	609	590	566
40	211	220	232	247	264	282	302	323	353	383	413	441	467	490	510	525	535	516	492
45	138	147	159	172	188	206	225	246	275	305	334	362	389	412	432	448	458	440	418
50	76.4	85.5	97.0	111	126	143	162	182	209	237	265	291	315	337	356	371	381	365	345
55	41.0	48.1	57.3	68.2	80.8	94.9	110	127	152	176	201	225	247	267	284	297	307	293	275
60	20.0	23.5	28.5	34.9	42.6	51.7	62.2	74.0	95.1	117	139	160	180	199	215	228	237	226	210
65	7.20	8.15	10.0	12.9	16.9	22.0	28.4	36.0	53.2	71.1	89.4	107	125	141	155	166	175	166	153
70	1.55	1.49	2.01	3.22	5.18	8.00	11.7	16.5	28.9	42.1	55.5	68.8	81.5	93.4	104	113	119	113	104
75	0.09	0.10	0.11	0.13	0.14	0.16	1.66	4.09	12.3	21.2	30.2	39.3	48.0	56.2	63.5	69.7	74.4	69.7	63.6
80	0.12	0.13	0.15	0.16	0.17	0.19	0.85	2.04	6.18	10.6	15.2	19.7	24.1	28.2	31.9	34.9	37.3	35.0	31.9
85	0.62	0.55	0.53	0.56	0.65	0.81	1.05	1.39	2.43	3.53	4.66	5.79	6.88	7.90	8.81	9.56	10.1	9.56	8.80
90	0.80	0.88	0.97	1.05	1.12	1.19	1.24	1.28	1.16	1.02	0.87	0.71	0.56	0.41	0.27	0.15	0.06	0.13	0.23
95	1.20	1.25	1.32	1.39	1.47	1.55	1.63	1.72	1.81	1.89	1.98	2.05	2.11	2.17	2.20	2.22	2.23	2.14	2.03
100	1.64	1.66	1.71	1.81	1.96	2.16	2.42	2.75	3.59	4.46	5.35	6.22	7.06	7.82	8.49	9.03	9.42	8.85	8.14
105	2.61	2.64	2.75	2.95	3.24	3.63	4.14	4.77	6.37	8.04	9.75	11.4	13.0	14.5	15.8	16.8	17.5	16.5	15.1
110	5.57	6.77	8.15	9.68	11.3	13.1	14.8	16.6	18.5	20.4	22.1	23.7	25.1	26.2	27.0	27.5	27.6	25.7	23.4
115	15.7	21.8	28.4	35.3	42.3	49.0	55.4	61.0	61.1	60.4	59.0	56.9	54.2	51.1	47.6	43.8	39.8	36.4	32.9
120	30.9	39.0	47.8	57.0	66.2	75.1	83.4	90.6	89.3	86.9	83.4	79.2	74.5	69.3	63.9	58.5	53.2	52.1	51.2
125	84.7	87.9	91.3	94.8	98.1	101	104	105	102	98.1	93.7	89.0	84.2	79.5	75.1	71.1	67.7	70.5	73.8
130	131	130	128	127	125	122	120	117	113	108	104	99.1	94.8	90.9	87.5	84.6	82.5	85.8	89.7
135	143	141	139	137	134	131	128	125	121	117	113	109	106	103	100	98.2	96.6	98.0	100
140	151	149	146	143	140	137	133	130	127	124	121	118	116	114	112	111	110	111	112
145	156	153	150	147	144	141	138	135	133	131	129	127	126	125	124	123	123	123	124
150	156	154	151	149	147	144	142	139	138	137	136	135	135	134	134	134	134	134	135
155	156	155	153	152	150	149	147	146	145	145	145	144	144	144	144	144	145	145	145
160	156	155	155	155	154	154	153	153	153	153	153	153	153	153	153	153	153	153	153
165	158	158	158	158	158	158	158	158	158	158	159	159	159	159	160	160	160	161	161
170	162	162	162	162	162	162	163	163	163	163	163	164	164	164	165	165	165	166	166
175	165	165	165	165	166	166	166	166	166	167	167	167	167	167	168	168	168	168	169
180	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:何俊伟
Test Date:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.540m [K=1.3263]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1330A P:15.70W PF:0.9900 Freq:60.00Hz Lamp Flux:1652.36x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 3500K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:0.38*0.017+0.605*0.017	Shielding Angle:

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872				
5	859	856	853	850	847	844	841	840	838	837	837	836	836	836	836				
10	833	826	818	811	803	795	788	784	780	776	773	771	769	767	766				
15	794	782	768	755	741	728	715	706	698	691	685	679	674	670	666				
20	742	724	705	685	664	644	625	612	600	589	579	570	562	555	549				
25	679	655	630	604	577	550	524	508	492	478	466	454	445	436	429				
30	610	582	551	520	487	455	424	405	387	372	358	345	335	326	319				
35	538	507	473	438	403	368	334	314	296	280	266	255	246	239	234				
40	464	432	398	362	326	290	255	235	218	203	190	179	171	165	161				
45	391	361	329	295	260	226	193	174	157	142	129	119	111	104	100				
50	320	293	264	233	201	170	140	123	108	94.8	83.6	74.4	67.1	61.9	58.6				
55	253	229	203	175	148	120	94.1	79.7	67.2	56.6	47.9	41.0	36.1	33.1	31.9				
60	192	171	149	126	103	79.4	57.4	46.0	36.3	28.4	22.3	17.9	15.3	14.5	15.4				
65	139	122	104	85.9	67.2	48.8	31.4	22.8	15.8	10.3	6.36	3.89	2.94	3.49	5.55				
70	93.1	81.1	68.1	54.6	41.1	27.8	15.2	9.33	4.59	1.00	0.19	0.19	0.19	0.19	0.36				
75	56.4	48.2	39.5	30.4	21.3	12.4	4.10	0.47	0.18	0.17	0.16	0.16	0.15	0.13	0.12				
80	28.2	24.1	19.7	15.2	10.6	6.14	1.98	0.18	0.17	0.17	0.16	0.15	0.13	0.11	0.09				
85	7.89	6.87	5.77	4.63	3.49	2.37	1.32	0.85	0.48	0.22	0.19	0.17	0.16	0.21	0.47				
90	0.35	0.49	0.62	0.76	0.90	1.03	1.14	1.16	1.16	1.14	1.10	1.04	0.96	0.86	0.74				
95	1.91	1.77	1.63	1.48	1.33	1.18	1.04	0.95	0.87	0.79	0.72	0.66	0.61	0.57	0.54				
100	7.30	6.37	5.38	4.36	3.34	2.35	1.42	0.98	0.64	0.49	0.47	0.44	0.40	0.35	0.55				
105	13.5	11.7	9.84	7.89	5.94	4.05	2.28	1.45	0.81	0.34	0.29	0.28	0.26	0.24	0.64				
110	20.8	18.0	15.1	12.2	9.27	6.48	3.88	2.60	1.60	0.87	0.42	0.25	0.35	0.72	1.37				
115	29.4	25.9	22.5	19.2	16.0	13.0	10.3	8.43	6.83	5.51	4.47	3.71	3.24	3.05	3.13				
120	50.5	49.9	49.3	48.7	47.9	46.9	45.6	42.7	39.5	35.8	31.7	27.2	22.4	17.1	11.4				
125	77.5	81.3	84.9	88.1	90.8	92.5	93.2	89.5	84.4	78.0	70.3	61.3	51.0	39.3	26.4				
130	94.0	98.5	103	107	111	113	115	113	109	105	98.6	91.4	83.0	73.3	62.5				
135	102	105	108	112	115	118	121	123	124	125	126	126	126	126	126				
140	113	115	117	119	122	125	128	131	134	136	140	143	146	149	153				
145	125	126	128	129	131	133	136	138	140	143	145	148	151	154	158				
150	135	136	136	137	138	140	141	142	144	145	147	149	151	153	156				
155	145	145	145	145	146	146	147	148	149	150	151	153	155	156	158				
160	154	154	154	154	154	154	155	155	155	156	156	157	158	158	159				
165	162	162	163	163	163	164	164	164	164	164	164	163	163	163	162				
170	166	167	167	167	168	168	168	169	169	169	169	169	169	169	169				
175	169	169	169	170	170	170	170	171	171	171	171	171	171	171	171				
180	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:何俊伟
 Test Date:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.353
 Humidity:65.0%
 Test Distance:7.540m [K=1.3263]
 Remarks: