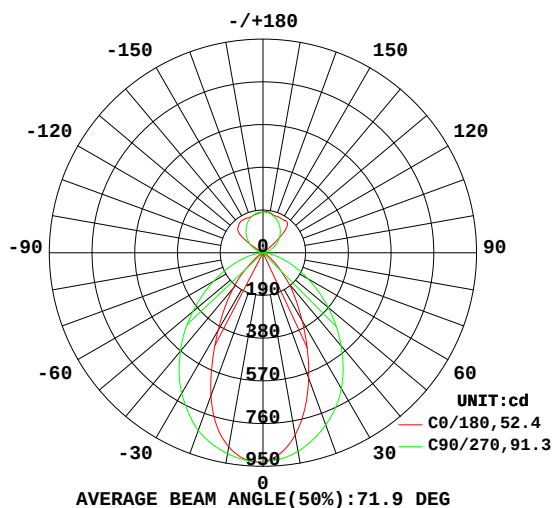


LUMINAIRE PHOTOMETRIC TEST REPORT

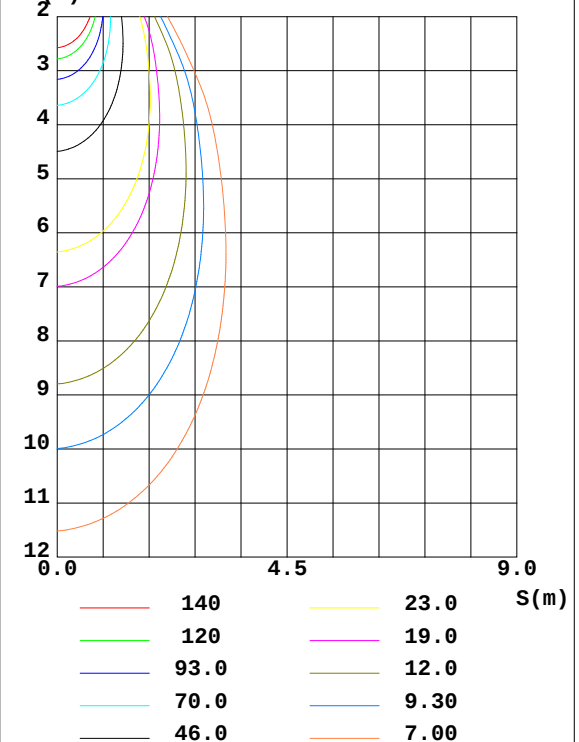
Test:U:120.0V I:0.1330A P:15.70W PF:0.9800 Freq:60.00Hz Lamp Flux:1760.31x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:0.38*0.017+0.605*0.017	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 112.12 lm/W			
MODEL	上下发光	I _{max} (cd)	932.6	S/MH(C0/180)	0.77
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.17
RATED VOLTAGE(V)	120.0	TOTAL FLUX(lm)	1760.3	η UP, DN(C0-180)	12.8, 37.0
NOMINAL FLUX(lm)	1760.31	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	12.8, 37.3
LAMPS INSIDE	1	η up(%)	25.6	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120.0	η down(%)	74.4	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:

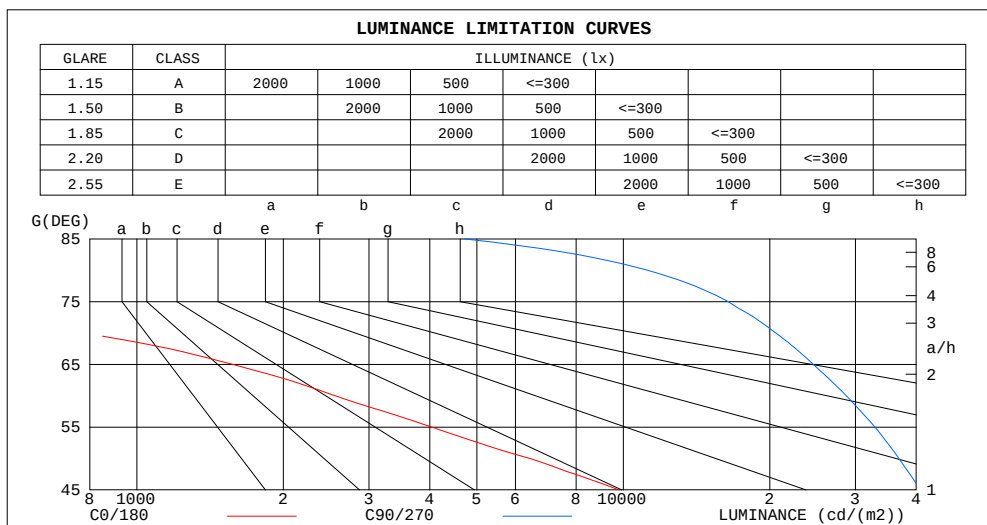
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	823.1	855.9	897.1	906.5	876.5	895.7	907.6	845.9	0- 10	86.13	86.13	4.89,4.89
20	593.3	689.8	815.4	784.9	676.5	767.7	841.5	675.9	10- 20	227.6	313.7	17.8,17.8
30	347.7	479.3	696.8	578.8	399.8	554.9	722.1	465.0	20- 30	290.3	604.0	34.3,34.3
40	179.9	291.3	540.0	357.1	205.3	336.9	571.1	281.8	30- 40	271.5	875.5	49.7,49.7
50	66.03	160.7	379.1	199.7	65.22	188.7	408.2	156.2	40- 50	208.4	1084	61.6,61.6
60	20.44	65.38	229.8	78.67	16.98	74.55	254.2	64.86	50- 60	132.6	1217	69.1,69.1
70	4.288	16.76	112.6	16.65	2.815	16.16	127.8	17.48	60- 70	64.87	1281	72.8,72.8
80	1.491	2.106	31.14	2.193	1.144	2.054	39.93	2.047	70- 80	23.65	1305	74.1,74.1
90	0.6543	1.205	0.1356	1.386	0.6556	1.339	0.0653	1.193	80- 90	4.229	1309	74.4,74.4
100	0.9108	1.446	11.22	2.888	1.802	2.940	10.16	1.523	90-100	2.146	1311	74.5,74.5
110	2.445	4.193	32.35	15.60	4.091	18.00	30.14	4.181	100-110	8.166	1320	75,75
120	5.731	45.21	60.53	97.81	20.05	97.43	57.82	48.91	110-120	31.35	1351	76.7,76.7
130	56.98	124.6	91.64	128.3	141.9	125.8	88.79	124.2	120-130	76.47	1427	81.1,81.1
140	169.7	139.3	120.0	142.9	166.2	139.8	118.1	138.6	130-140	99.58	1527	86.7,86.7
150	172.1	153.1	144.4	152.1	171.0	151.3	144.2	153.7	140-150	93.30	1620	92,92
160	173.2	164.1	164.3	163.9	169.0	164.8	165.0	167.3	150-160	74.15	1694	96.3,96.3
170	182.0	179.7	177.3	175.2	174.8	175.6	178.2	181.5	160-170	48.68	1743	99,99
180	180.6	180.6	180.6	180.6	180.6	180.6	180.6	180.6	170-180	17.20	1760	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:0.9800 Freq:60.00Hz Lamp Flux:1760.31x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 4000K	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	646	4698
80	536	11207
75	506	16409
70	784	20570
65	1572	24592
60	2555	28725
55	4038	32907
50	6420	36857
45	9800	40699

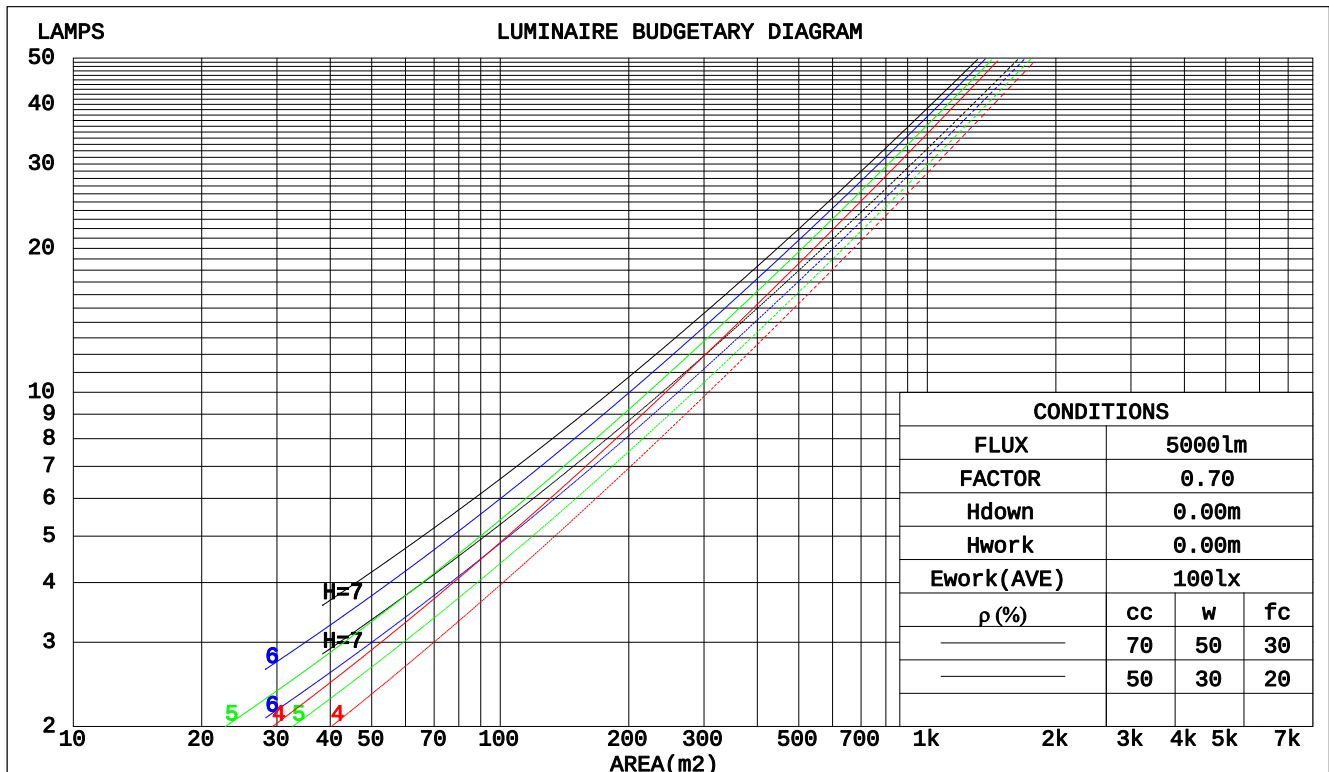
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:何俊伟
Test Date:

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:0.9800 Freq:60.00Hz Lamp Flux:1760.31x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 4000K	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	.74
1.0	1.02	.98	.95	.97	.94	.91	.88	.86	.84	.80	.78	.77	.72	.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	.67	.64	.66	.63	.59	.61	.58	.55	.53
4.0	.74	.67	.62	.71	.65	.60	.66	.60	.56	.60	.56	.53	.56	.52	.50	.47
5.0	.67	.60	.54	.65	.58	.53	.60	.54	.50	.55	.51	.47	.51	.48	.45	.42
6.0	.61	.54	.49	.59	.52	.47	.55	.49	.45	.51	.46	.43	.47	.44	.41	.38
7.0	.56	.49	.44	.54	.48	.43	.51	.45	.41	.47	.42	.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	.33	.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:0.9800 Freq:60.00Hz Lamp Flux:1760.31x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 4000K	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	.031	.147	.085	.027		
2.0	.227	.124	.038	.213	.118	.036	.189	.105	.033	.166	.093	.029	.145	.082	.026		
3.0	.214	.114	.034	.202	.108	.033	.180	.097	.030	.159	.087	.027	.140	.077	.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	.083	.025	.143	.076	.022	.127	.068	.020		
6.0	.177	.089	.025	.168	.085	.024	.151	.078	.023	.136	.070	.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	.109	.056	.016		
9.0	.149	.072	.020	.142	.069	.019	.129	.064	.018	.116	.058	.017	.104	.053	.015		
10.0	.141	.068	.019	.135	.065	.018	.122	.060	.017	.111	.055	.016	.100	.050	.014		

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.386	.386	.386	.330	.330	.330	.225	.225	.225	.129	.129	.129	.041	.041	.041	
1.0	.372	.354	.337	.318	.303	.290	.218	.209	.201	.125	.121	.117	.040	.039	.038	
2.0	.362	.330	.304	.310	.284	.263	.212	.197	.183	.122	.114	.107	.039	.037	.035	
3.0	.353	.313	.281	.302	.270	.244	.208	.188	.171	.120	.110	.101	.039	.036	.033	
4.0	.345	.300	.266	.296	.259	.231	.204	.181	.163	.118	.106	.096	.038	.034	.032	
5.0	.338	.290	.254	.290	.251	.221	.200	.175	.156	.116	.103	.093	.037	.034	.031	
6.0	.331	.282	.246	.285	.244	.214	.196	.171	.151	.114	.100	.090	.037	.033	.030	
7.0	.325	.275	.239	.280	.238	.209	.193	.167	.148	.112	.098	.088	.036	.032	.029	
8.0	.320	.269	.235	.275	.234	.205	.190	.164	.145	.111	.097	.086	.036	.032	.029	
9.0	.314	.264	.231	.271	.230	.201	.188	.161	.143	.109	.095	.085	.035	.031	.028	
10.0	.310	.260	.228	.267	.226	.199	.185	.159	.141	.108	.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:0.9800 Freq:60.00Hz Lamp Flux:1760.31x1 lm											
NAME: 12代 2FT 黑色						TYPE:15W 4000K			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		15.2	16.2	15.8	16.7	17.4	22.8	23.8	23.4	24.4	25.0
	3H	14.9	15.8	15.5	16.4	17.1	23.7	24.6	24.4	25.2	25.9
	4H	14.8	15.6	15.4	16.2	17.0	24.0	24.9	24.7	25.5	26.2
	6H	14.6	15.4	15.3	16.1	16.8	24.1	24.9	24.8	25.6	26.3
	8H	14.6	15.3	15.2	16.0	16.7	24.1	24.9	24.8	25.5	26.3
	12H	14.5	15.2	15.2	15.9	16.7	24.1	24.8	24.8	25.5	26.2
4H	2H	15.8	16.7	16.5	17.3	18.0	22.5	23.4	23.1	24.0	24.7
	3H	15.6	16.3	16.2	16.9	17.7	23.5	24.2	24.2	24.9	25.7
	4H	15.4	16.1	16.1	16.7	17.6	23.9	24.5	24.6	25.2	26.0
	6H	15.3	15.8	16.0	16.5	17.4	24.1	24.6	24.8	25.4	26.2
	8H	15.2	15.7	15.9	16.4	17.3	24.1	24.6	24.8	25.3	26.2
	12H	15.1	15.6	15.9	16.3	17.2	24.0	24.5	24.8	25.3	26.1
8H	4H	15.5	16.0	16.3	16.8	17.6	23.7	24.2	24.4	24.9	25.8
	6H	15.4	15.8	16.2	16.6	17.5	23.9	24.3	24.7	25.1	26.0
	8H	15.3	15.7	16.1	16.4	17.4	23.9	24.3	24.7	25.1	26.0
	12H	15.2	15.5	16.0	16.3	17.3	23.9	24.2	24.7	25.0	26.0
12H	4H	15.5	16.0	16.3	16.7	17.6	23.6	24.1	24.4	24.8	25.7
	6H	15.4	15.7	16.2	16.5	17.5	23.8	24.2	24.6	25.0	25.9
	8H	15.3	15.6	16.1	16.4	17.4	23.8	24.1	24.6	24.9	25.9
Variations with the observer position at spacings:											
S = 1.0H		+ 1.8 / - 3.7					+ 0.4 / - 0.3				
1.5H		+ 1.4 / - 2.5					+ 0.9 / - 1.3				
2.0H		+ 2.6 / - 4.2					+ 1.9 / - 2.6				

CIE Pub.117 Corrected 1760 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.0)

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:0.9800 Freq:60.00Hz Lamp Flux:1760.31x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:0.38*0.017+0.605*0.017	Shielding Angle:

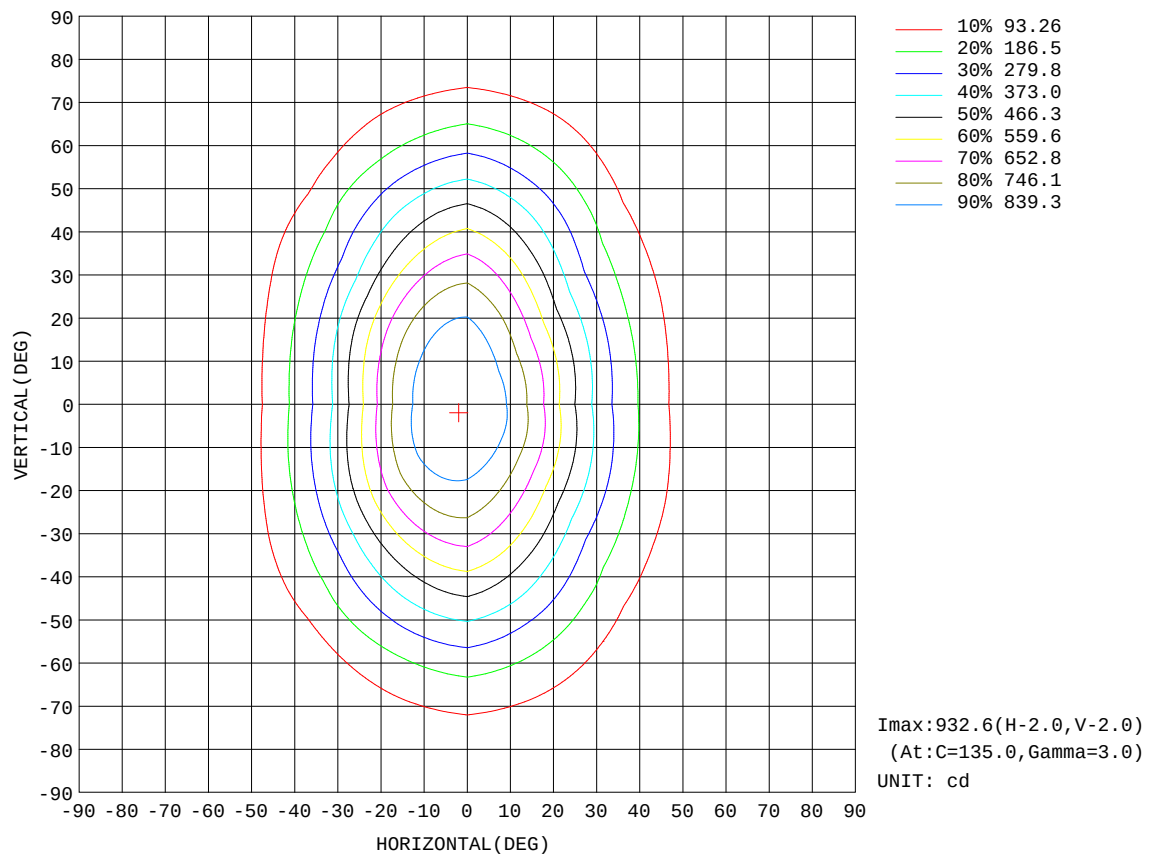
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	51	45	59	50	45	56	48	44	37
0.80	70	60	54	68	59	54	64	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	79	74	84	77	72	78	73	68	58
2.00	93	86	81	89	83	78	83	78	74	62
2.50	96	90	85	92	87	82	85	81	77	63
3.00	99	93	89	95	90	86	87	83	80	65
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:0.9800 Freq:60.00Hz Lamp Flux:1760.31x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:0.38*0.017+0.605*0.017	Shielding Angle:

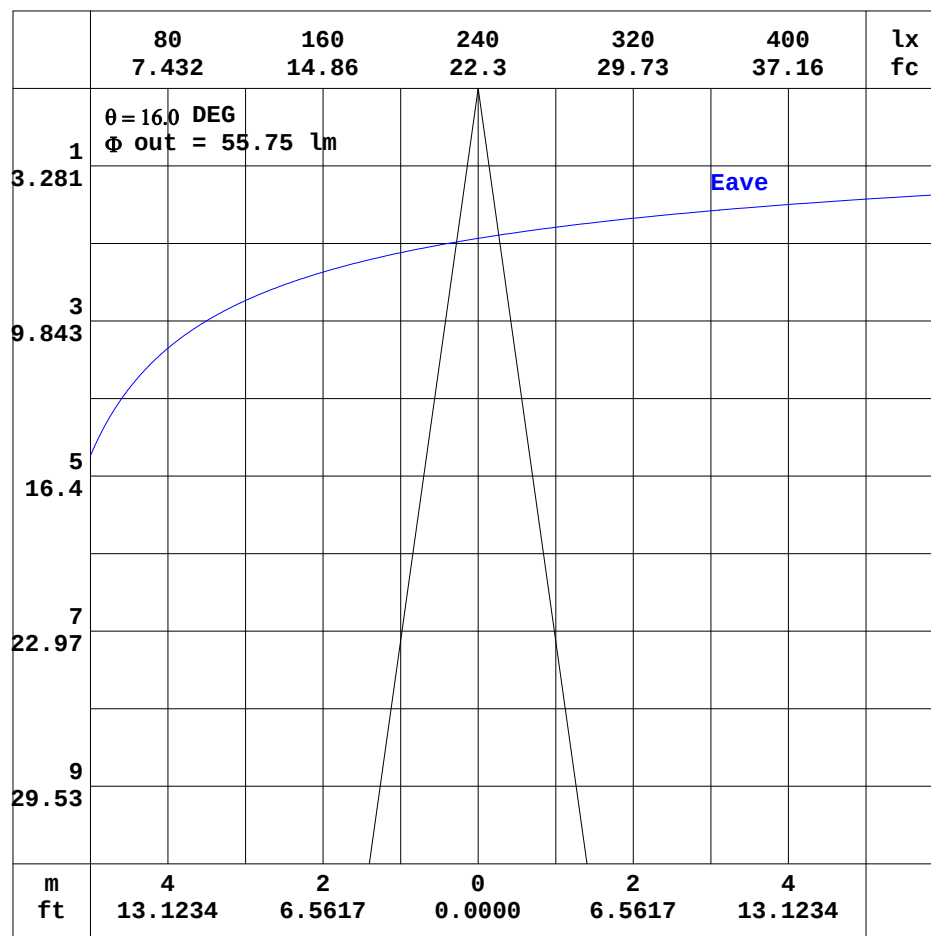


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:何俊伟
Test Date:

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:0.9800 Freq:60.00Hz Lamp Flux:1760.31x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:0.38*0.017+0.605*0.017	Shielding Angle:



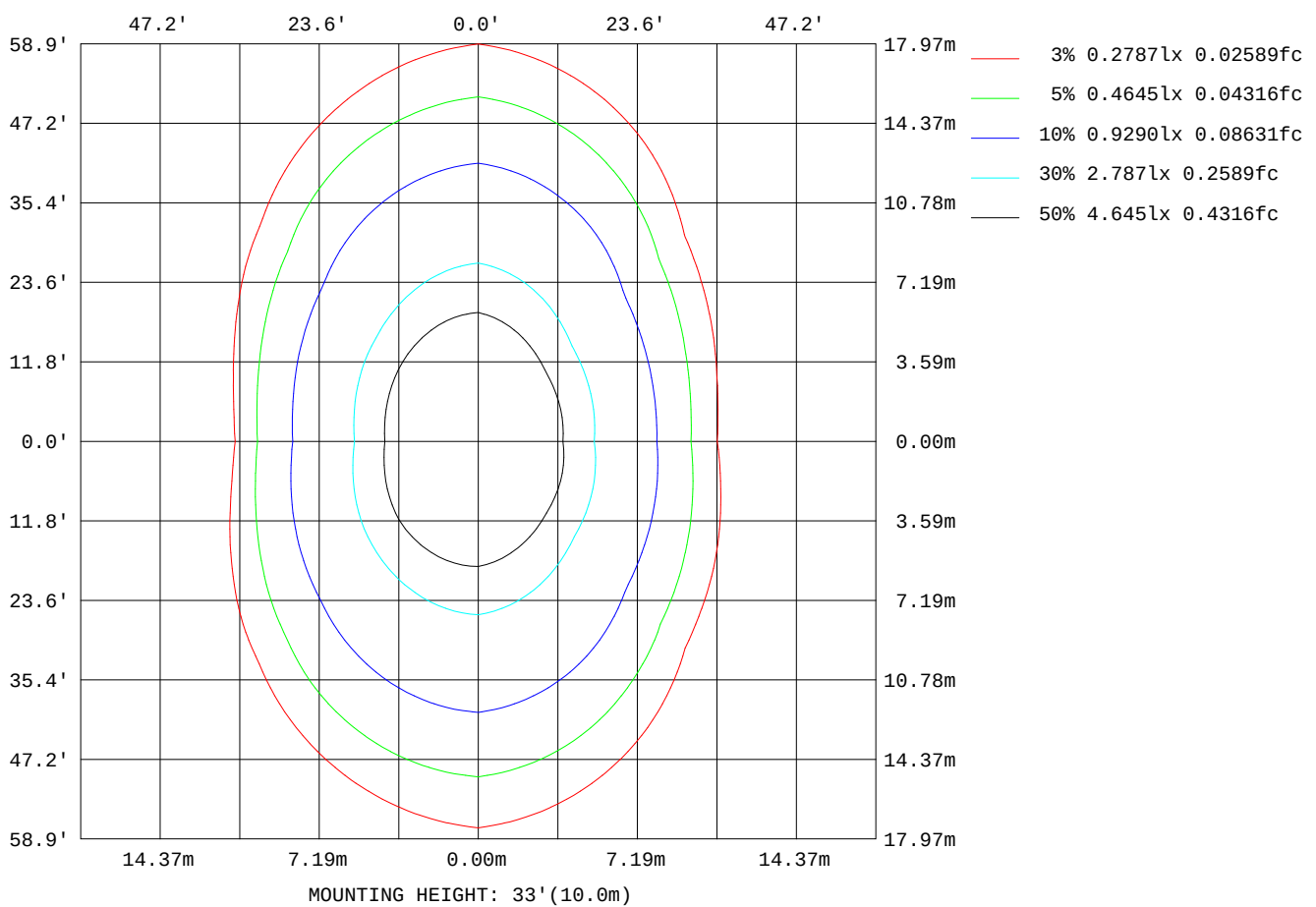
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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
 γ 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:0.9800 Freq:60.00Hz Lamp Flux:1760.31x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 4000K	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:0.9800 Freq:60.00Hz Lamp Flux:1760.31x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:0.38*0.017+0.605*0.017	Shielding Angle:

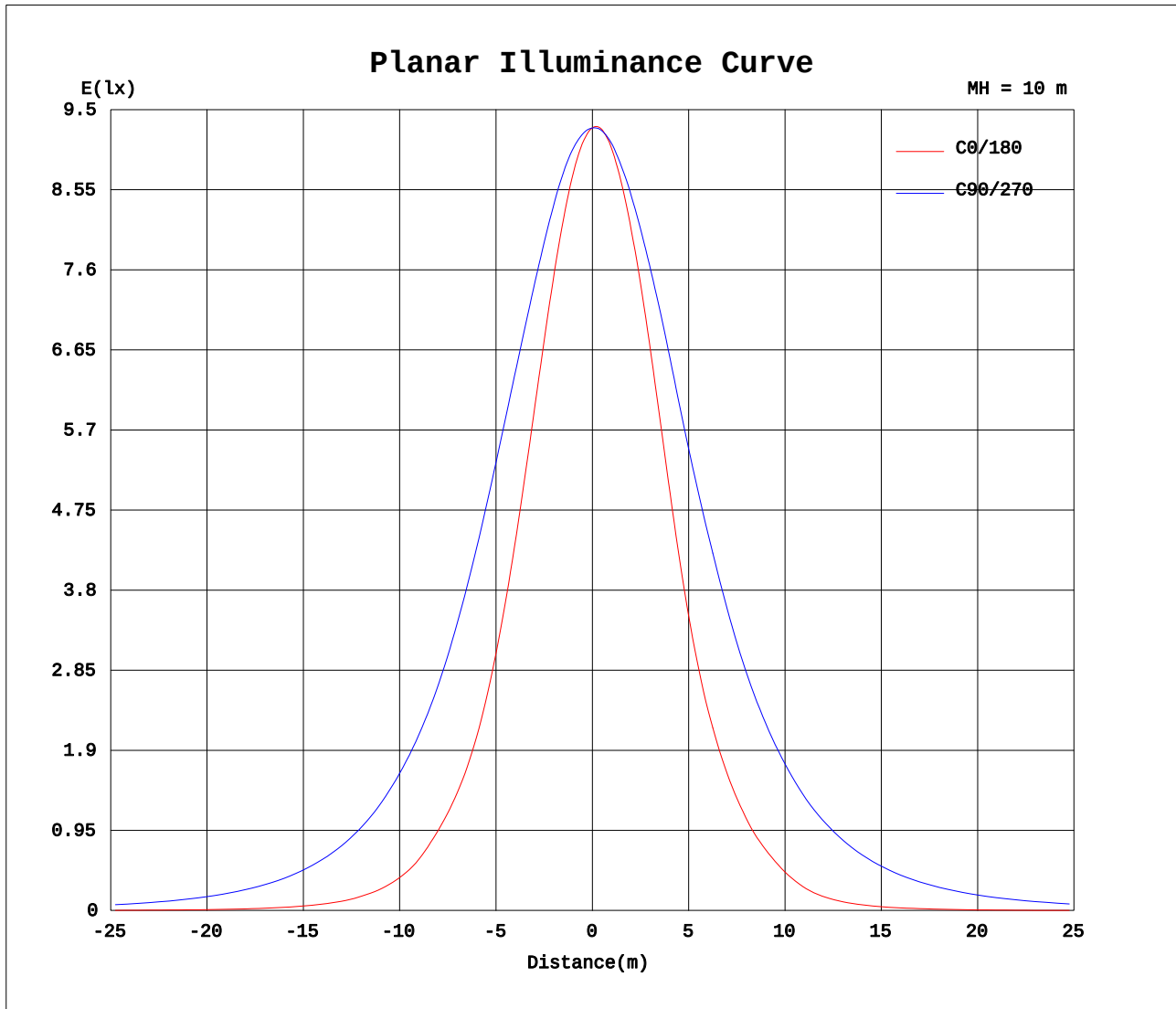
AvgL	cd/m2
L_0~180(65)av	1335
L_0~180(75)av	489
L_0~180(85)av	621
L_90~270(65)av	26120
L_90~270(75)av	17824
L_90~270(85)av	6274
L_45(65)av	5351
L_45(75)av	1044
L_45(85)av	1008

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:0.9800 Freq:60.00Hz Lamp Flux:1760.31x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 4000K	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	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928
5	895	896	897	898	899	900	901	902	903	905	906	908	909	911	913	915	916	918	920
10	823	826	830	833	837	840	844	848	852	856	861	866	871	876	880	885	889	893	897
15	718	725	731	738	745	752	760	767	775	782	792	802	812	821	830	839	847	854	860
20	593	603	612	622	633	643	654	666	678	690	706	722	738	753	768	782	794	806	815
25	465	475	487	499	511	525	539	554	569	585	608	630	653	675	696	715	733	749	762
30	348	358	370	382	396	410	426	443	460	479	507	535	563	590	617	641	663	681	697
35	255	263	273	284	296	310	325	342	360	380	410	442	473	504	533	560	584	605	622
40	180	185	193	202	212	225	239	255	272	291	323	355	387	419	449	477	502	523	540
45	111	116	123	132	143	155	168	184	201	219	250	281	313	344	373	400	424	445	460
50	66.0	70.4	76.4	83.8	92.8	103	115	129	144	161	188	217	245	273	300	325	347	365	379
55	37.1	38.6	41.7	46.4	52.6	60.3	69.6	80.5	92.9	107	131	156	182	207	231	253	273	289	302
60	20.4	19.5	20.1	22.1	25.7	30.7	37.1	45.1	54.5	65.4	85.7	107	128	150	170	189	205	219	230
65	10.6	8.14	6.96	7.09	8.54	11.3	15.4	20.7	27.4	35.4	51.4	68.2	85.3	102	118	133	147	158	166
70	4.29	1.55	0.16	0.15	0.13	0.92	3.34	6.78	11.3	16.8	28.3	40.5	53.0	65.4	77.3	88.3	98.1	106	113
75	2.10	0.11	0.10	0.10	0.10	0.10	0.09	0.09	1.12	4.40	11.9	19.9	28.1	36.3	44.2	51.6	58.2	63.7	68.0
80	1.49	0.15	0.09	0.10	0.10	0.11	0.11	0.11	0.63	2.11	5.51	9.14	12.9	16.6	20.3	23.6	26.6	29.2	31.1
85	0.90	0.72	0.61	0.54	0.54	0.60	0.71	0.88	1.10	1.39	2.01	2.66	3.33	3.99	4.63	5.23	5.76	6.21	6.55
90	0.65	0.80	0.92	1.02	1.10	1.16	1.20	1.22	1.22	1.21	1.09	0.97	0.83	0.70	0.56	0.43	0.31	0.21	0.14
95	0.55	0.53	0.56	0.64	0.71	0.76	0.80	0.84	0.97	1.11	1.37	1.64	1.91	2.19	2.45	2.70	2.93	3.12	3.28
100	0.91	0.51	0.39	0.45	0.50	0.54	0.57	0.59	0.93	1.45	2.58	3.78	5.03	6.27	7.48	8.62	9.65	10.5	11.2
105	1.31	0.57	0.29	0.33	0.36	0.39	0.41	0.63	1.39	2.37	4.50	6.78	9.14	11.5	13.8	15.9	17.9	19.5	20.8
110	2.45	1.33	0.55	0.29	0.32	0.34	0.68	1.52	2.70	4.19	7.32	10.7	14.2	17.7	21.1	24.4	27.5	30.1	32.4
115	3.74	3.10	2.82	2.89	3.30	4.07	5.18	6.65	8.46	10.6	14.0	17.7	21.6	25.7	29.8	33.9	38.0	42.0	45.8
120	5.73	11.3	16.6	21.6	26.3	30.7	34.8	38.5	42.0	45.2	47.3	49.1	50.7	52.3	53.8	55.3	56.9	58.6	60.5
125	13.1	27.7	40.9	52.9	63.5	72.8	80.8	87.6	93.0	97.1	97.0	95.7	93.7	91.0	87.9	84.7	81.5	78.6	76.2
130	57.0	69.5	80.8	90.8	99.5	107	113	118	122	125	123	120	116	112	108	103	99.0	95.0	91.6
135	135	136	137	138	138	137	137	136	135	134	130	127	123	120	116	113	110	108	106
140	170	166	162	158	155	151	148	145	142	139	136	133	130	128	125	123	122	121	120
145	175	171	167	164	161	158	155	152	149	147	144	142	140	138	137	135	134	133	133
150	172	169	167	165	162	160	158	156	155	153	152	150	149	148	147	146	145	145	144
155	174	171	169	167	165	163	162	160	159	158	157	157	156	156	156	155	155	155	156
160	173	172	170	169	168	167	166	165	165	164	164	164	164	164	164	164	164	164	164
165	175	175	174	174	174	173	173	173	173	172	172	172	172	172	172	172	172	171	171
170	182	182	182	181	181	181	180	180	180	180	179	179	179	179	178	178	178	178	177
175	185	184	184	184	184	184	184	184	183	183	183	183	182	182	182	182	181	181	181
180	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181

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:0.9800 Freq:60.00Hz Lamp Flux:1760.31x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 4000K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WS	SUR.:0.38*0.017+0.605*0.017	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928
5	921	923	925	926	927	928	929	930	931	930	929	929	928	926	925	924	923	922	922
10	900	902	904	906	907	907	908	907	906	903	900	896	893	889	885	882	879	876	877
15	863	866	867	868	867	866	864	861	857	850	843	835	827	820	813	806	801	796	798
20	818	819	819	817	813	808	801	794	785	772	758	744	730	716	704	693	684	677	681
25	763	762	758	751	742	732	719	705	690	670	649	628	608	589	571	555	542	532	539
30	695	690	681	670	655	639	620	600	579	555	530	506	483	461	442	424	410	400	406
35	617	607	594	577	558	536	512	488	462	438	414	391	370	350	332	316	304	295	300
40	533	521	504	485	462	438	412	385	357	334	312	290	271	253	237	223	213	205	209
45	452	439	422	401	378	353	326	299	271	249	227	207	189	172	157	145	136	129	133
50	371	358	342	322	301	277	251	226	200	179	158	139	122	106	91.7	80.2	71.3	65.2	69.2
55	294	282	267	249	229	207	184	161	138	121	104	88.9	75.0	62.6	52.0	43.3	36.7	32.5	35.2
60	221	209	195	178	159	139	119	98.6	78.7	66.8	56.1	46.6	38.3	31.3	25.7	21.4	18.5	17.0	17.4
65	158	148	135	120	104	87.5	70.5	53.7	37.7	30.2	23.8	18.6	14.4	11.2	8.97	7.64	7.14	7.42	6.52
70	106	98.3	88.5	77.5	65.6	53.2	40.6	28.3	16.6	12.0	8.38	5.58	3.59	2.30	1.66	1.59	2.00	2.81	1.66
75	63.7	58.1	51.5	44.1	36.1	27.8	19.5	11.5	3.89	1.67	0.13	0.10	0.10	0.09	0.08	0.08	0.91	1.95	0.69
80	29.2	26.7	23.7	20.4	16.8	13.0	9.27	5.62	2.19	1.17	0.45	0.15	0.14	0.13	0.12	0.29	0.69	1.14	0.51
85	6.23	5.80	5.29	4.71	4.08	3.42	2.76	2.11	1.50	1.26	1.08	0.94	0.85	0.79	0.76	0.76	0.79	0.83	0.69
90	0.24	0.36	0.51	0.66	0.82	0.98	1.13	1.27	1.39	1.34	1.28	1.19	1.10	1.01	0.91	0.81	0.73	0.66	0.72
95	3.21	3.11	2.97	2.80	2.61	2.41	2.20	1.99	1.78	1.66	1.55	1.46	1.37	1.30	1.24	1.20	1.17	1.16	1.19
100	10.7	10.0	9.21	8.26	7.22	6.12	5.01	3.92	2.89	2.50	2.19	1.97	1.81	1.71	1.67	1.67	1.72	1.80	1.75
105	19.9	18.6	17.0	15.1	13.2	11.1	8.96	6.88	4.90	4.17	3.59	3.16	2.86	2.68	2.60	2.62	2.72	2.89	2.79
110	31.8	30.8	29.3	27.5	25.4	23.1	20.7	18.1	15.6	13.7	11.9	10.2	8.62	7.25	6.09	5.15	4.48	4.09	4.88
115	49.4	52.7	55.6	58.0	60.0	61.3	62.0	62.0	61.1	55.2	48.6	41.7	34.7	27.8	21.3	15.5	10.5	6.76	11.3
120	66.1	71.7	77.2	82.5	87.3	91.4	94.6	96.8	97.8	89.9	80.9	71.3	61.3	51.5	42.0	33.4	25.9	20.0	26.0
125	79.9	84.1	88.8	93.6	98.5	103	108	112	115	113	110	106	103	98.7	94.8	91.1	87.8	85.0	87.6
130	94.0	97.0	101	105	109	114	119	124	128	131	134	136	138	139	140	141	142	142	141
135	108	111	114	117	121	125	129	133	137	141	144	147	150	152	154	156	157	158	157
140	121	123	125	127	130	133	136	140	143	146	150	153	156	159	162	164	165	166	165
145	134	135	136	138	139	142	144	146	149	152	155	158	161	164	166	169	170	171	170
150	144	145	145	146	147	148	149	151	152	155	157	160	162	164	167	168	170	171	170
155	155	155	155	156	156	156	156	157	158	159	161	163	164	166	167	169	170	171	170
160	164	164	164	164	164	164	164	164	164	164	165	166	166	167	168	168	169	169	169
165	171	171	171	171	170	170	170	170	170	170	170	170	171	171	171	171	171	171	171
170	177	177	177	176	176	176	176	175	175	175	175	175	175	175	175	175	175	175	175
175	181	180	180	180	180	180	179	179	179	179	179	179	179	178	178	178	178	178	178
180	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181

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:0.9800 Freq:60.00Hz Lamp Flux:1760.31x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 4000K	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	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928
5	922	923	923	923	924	924	925	925	926	926	927	927	927	927	927	926	925	923	920
10	878	880	882	885	887	890	893	896	899	901	904	906	907	909	909	909	908	902	896
15	801	805	810	816	822	829	836	842	850	856	863	868	873	877	879	880	880	871	861
20	687	695	705	716	729	741	754	768	781	793	805	816	825	832	838	841	841	829	814
25	548	561	576	592	611	630	650	669	689	708	725	741	756	767	777	782	785	769	751
30	417	430	447	465	486	508	531	555	581	606	631	654	674	692	706	716	722	704	682
35	308	320	334	351	370	391	413	437	467	498	528	557	583	606	626	641	651	632	607
40	216	227	240	255	273	292	314	337	369	402	434	465	494	520	542	559	571	552	527
45	140	150	162	177	194	213	234	257	289	322	354	385	414	440	462	480	492	474	450
50	76.1	85.7	97.9	112	129	147	167	189	219	249	279	308	335	359	380	397	408	392	371
55	40.4	47.8	57.3	68.7	81.9	96.7	113	131	157	184	211	237	262	284	302	318	328	314	295
60	19.4	22.8	27.7	34.1	41.9	51.3	62.2	74.5	97.5	121	145	168	191	211	229	243	254	242	226
65	6.42	7.23	9.02	11.9	15.9	21.2	27.8	35.8	54.4	73.8	93.6	113	132	149	165	177	187	177	165
70	0.93	0.73	1.16	2.32	4.30	7.20	11.1	16.2	29.6	43.8	58.3	72.7	86.6	99.4	111	121	128	121	111
75	0.09	0.11	0.12	0.14	0.15	0.17	1.25	3.83	12.7	22.2	32.0	41.7	51.2	60.0	67.9	74.6	79.7	74.8	68.4
80	0.12	0.13	0.15	0.17	0.18	0.19	0.77	2.05	6.50	11.2	16.1	21.0	25.7	30.2	34.1	37.4	39.9	37.4	34.1
85	0.57	0.50	0.47	0.49	0.59	0.76	1.03	1.39	2.52	3.73	4.97	6.20	7.39	8.50	9.49	10.3	10.9	10.3	9.48
90	0.80	0.89	0.99	1.08	1.16	1.24	1.30	1.34	1.21	1.07	0.92	0.76	0.59	0.44	0.29	0.17	0.07	0.15	0.25
95	1.24	1.30	1.37	1.45	1.54	1.64	1.73	1.83	1.95	2.07	2.18	2.29	2.38	2.46	2.51	2.55	2.57	2.46	2.33
100	1.73	1.74	1.80	1.91	2.08	2.30	2.58	2.94	3.84	4.79	5.75	6.70	7.60	8.43	9.15	9.74	10.2	9.55	8.78
105	2.76	2.80	2.92	3.14	3.46	3.89	4.45	5.15	6.90	8.74	10.6	12.4	14.2	15.8	17.2	18.3	19.2	18.0	16.5
110	5.95	7.25	8.76	10.4	12.2	14.1	16.0	18.0	20.1	22.1	24.0	25.8	27.3	28.5	29.4	30.0	30.1	28.0	25.5
115	16.9	23.4	30.4	37.8	45.3	52.5	59.3	65.4	65.6	64.9	63.4	61.2	58.5	55.2	51.5	47.4	43.2	39.5	35.7
120	33.5	42.1	51.5	61.4	71.3	80.8	89.7	97.4	96.1	93.5	89.9	85.5	80.4	74.9	69.2	63.4	57.8	56.5	55.5
125	90.8	94.3	98.0	102	105	108	111	113	110	106	101	95.8	90.8	85.8	81.1	76.8	73.1	76.1	79.6
130	141	139	138	136	134	132	129	126	121	116	111	106	102	97.7	94.1	91.0	88.8	92.3	96.5
135	155	153	150	147	144	141	137	134	130	125	121	117	114	111	108	105	104	105	108
140	163	160	157	154	151	147	143	140	136	133	130	127	125	122	121	119	118	119	120
145	168	165	163	159	156	153	149	146	144	141	139	137	136	134	133	132	132	132	133
150	168	166	164	162	159	156	154	151	150	149	147	146	146	145	144	144	144	145	145
155	169	167	166	164	163	161	160	158	157	157	156	156	156	155	155	155	156	156	156
160	168	168	167	167	166	166	165	165	165	165	164	164	164	165	165	165	165	165	165
165	171	171	171	171	171	171	171	170	171	171	171	171	171	172	172	172	173	173	174
170	175	175	175	175	175	175	175	176	176	176	176	177	177	177	178	178	178	179	179
175	178	179	179	179	179	179	179	180	180	180	180	180	180	181	181	181	181	182	182
180	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181

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:0.9800 Freq:60.00Hz Lamp Flux:1760.31x1 lm		
NAME: 12代 2FT 黑色	TYPE:15W 4000K	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	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928				
5	917	915	912	909	906	903	900	899	897	896	895	895	895	895	895				
10	890	883	875	868	860	853	846	841	837	834	831	828	826	825	824				
15	849	837	823	810	796	782	769	760	752	745	739	733	728	724	721				
20	797	779	759	738	717	696	676	663	650	639	629	620	611	604	598				
25	729	705	679	653	625	598	572	555	539	524	511	499	488	479	471				
30	656	627	596	563	530	497	465	445	427	410	395	382	371	361	354				
35	579	547	512	476	439	403	367	346	327	310	296	283	273	265	259				
40	498	465	430	393	355	318	282	261	243	227	213	202	193	186	182				
45	422	391	356	321	284	248	213	192	174	159	145	134	125	118	113				
50	346	317	286	254	221	188	156	138	122	108	95.9	85.9	77.9	71.9	68.0				
55	273	247	220	191	162	133	105	90.0	76.6	65.1	55.6	48.1	42.4	38.7	36.9				
60	207	185	162	138	113	88.3	64.9	52.7	42.4	33.8	27.1	22.1	19.0	17.7	18.2				
65	149	132	113	93.5	73.7	54.3	35.8	26.7	19.2	13.3	8.93	6.13	4.91	5.26	7.16				
70	100	87.4	73.7	59.4	45.0	30.8	17.5	11.2	6.10	2.21	0.21	0.21	0.20	0.20	0.93				
75	60.7	52.1	42.8	33.1	23.4	14.0	5.17	1.28	0.19	0.18	0.17	0.17	0.15	0.14	0.13				
80	30.2	25.8	21.1	16.2	11.3	6.50	2.05	0.19	0.18	0.18	0.17	0.15	0.14	0.12	0.10				
85	8.49	7.38	6.18	4.94	3.69	2.48	1.34	0.84	0.45	0.20	0.19	0.18	0.16	0.21	0.50				
90	0.37	0.51	0.65	0.80	0.94	1.08	1.19	1.22	1.22	1.20	1.16	1.10	1.02	0.92	0.80				
95	2.18	2.01	1.84	1.66	1.48	1.29	1.12	1.01	0.92	0.83	0.78	0.73	0.66	0.60	0.57				
100	7.88	6.87	5.80	4.70	3.60	2.53	1.52	1.06	0.69	0.54	0.52	0.48	0.44	0.39	0.58				
105	14.7	12.8	10.7	8.60	6.47	4.40	2.46	1.56	0.85	0.34	0.32	0.31	0.29	0.26	0.67				
110	22.7	19.6	16.5	13.2	10.1	7.02	4.18	2.79	1.69	0.90	0.40	0.22	0.32	0.73	1.44				
115	31.9	28.1	24.4	20.8	17.4	14.1	11.1	9.10	7.35	5.92	4.79	3.96	3.45	3.24	3.34				
120	54.6	53.9	53.2	52.5	51.6	50.4	48.9	45.8	42.3	38.3	33.9	29.1	23.9	18.3	12.2				
125	83.5	87.5	91.3	94.7	97.4	99.2	99.9	95.9	90.4	83.6	75.3	65.7	54.6	42.2	28.3				
130	101	106	111	115	119	122	124	122	118	113	107	99.5	90.8	80.8	69.5				
135	111	114	117	121	124	128	131	133	134	135	136	136	137	136	136				
140	122	124	126	129	132	135	139	142	145	148	151	155	158	162	166				
145	134	136	138	140	142	145	147	150	153	155	158	161	164	168	171				
150	146	147	148	149	151	152	154	155	157	159	161	163	165	167	170				
155	156	156	157	157	158	159	159	161	162	163	165	166	168	170	172				
160	165	166	166	166	167	167	167	168	168	169	170	170	171	172	172				
165	174	175	175	176	176	176	177	177	177	177	177	177	176	176	176				
170	179	180	180	181	181	181	182	182	182	182	182	182	182	182	182				
175	182	182	183	183	183	183	184	184	184	184	184	184	184	184	185				
180	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181				

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: