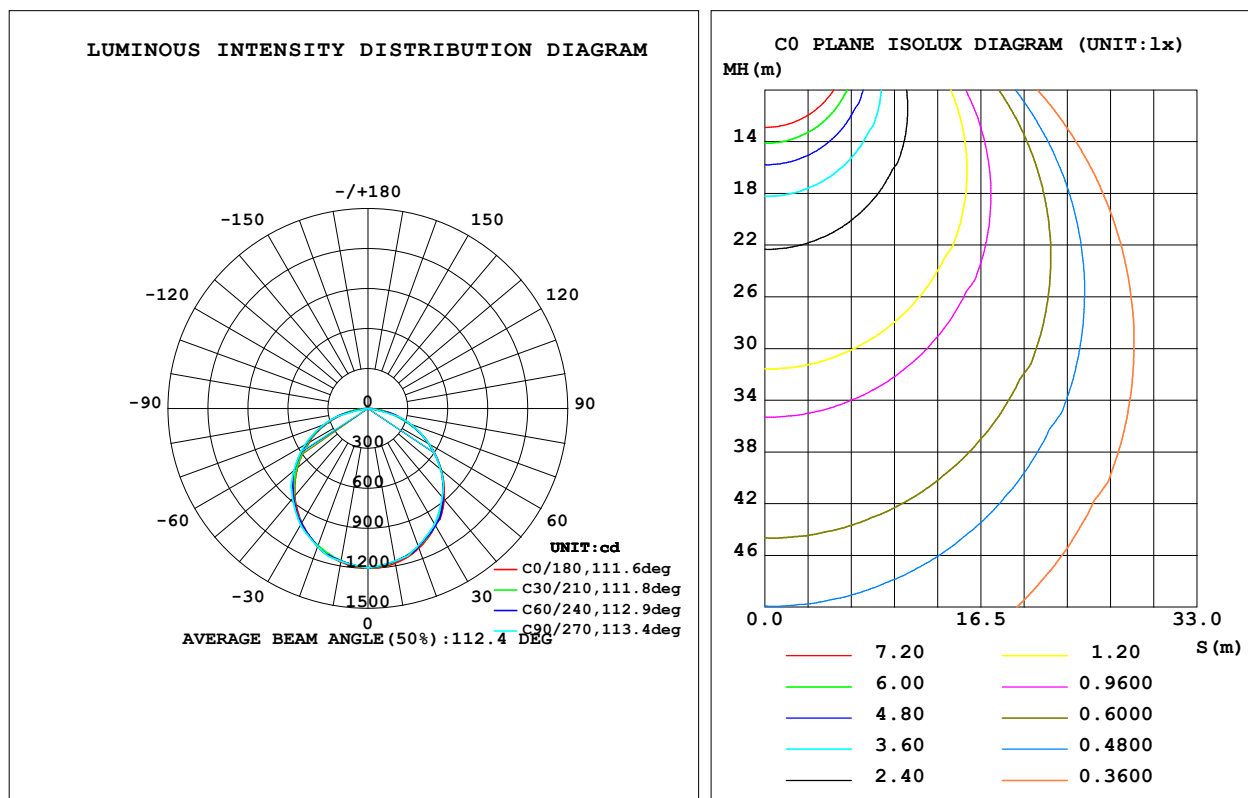


LUMINAIRE PHOTOMETRIC TEST REPORT
(CLC/WLC FPL14-840-32W-130LW-UNV-DIM1-WH)

Test:U:120.7V I:0.2659A P:31.64W PF:0.9861 Lamp Flux:3355.18x1 lm		
NAME: ! "	TYPE:	WEIGHT:
DIM.:	SPEC.:32W	SERIAL No.:1
MFR.: AOTOM	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 106.05 lm/W			
MODEL		Imax (cd)	1198	S/MH (C0/180)	1.27
NOMINAL POWER (W)	32	LOR (%)	100.0	S/MH (C90/270)	1.24
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	3355.2	η UP,DN (C0-180)	0.0,49.6
NOMINAL FLUX (lm)	3355.18	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,50.4
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120.7	η down (%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:# \$
 Test Date:2017-07-04

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.274
 Humidity:65.0%
 Test Distance:15.338m [K=1.0000]
 Remarks: 32W 300X1200%& ! " 4000K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum, lamp
5	1194	1184	1179	1181	1188	1181	1180	1184	0- 5	28.41	28.41	0.85, 0.85
10	1178	1164	1163	1158	1170	1160	1164	1166	5- 10	83.95	112.4	3.35, 3.35
15	1153	1139	1146	1132	1139	1134	1149	1141	10- 15	136.7	249.0	7.42, 7.42
20	1116	1109	1098	1102	1099	1105	1103	1113	15- 20	184.8	433.8	12.9, 12.9
25	1069	1062	1050	1047	1051	1051	1057	1065	20- 25	226.0	659.8	19.7, 19.7
30	1013	1007	1002	985.8	993.9	991.7	1012	1011	25- 30	259.9	919.7	27.4, 27.4
35	964.2	949.1	935.4	923.2	927.1	930.8	946.4	954.3	30- 35	286.1	1206	35.9, 35.9
40	889.5	885.0	868.5	855.8	854.9	864.3	881.3	890.7	35- 40	302.2	1508	44.9, 44.9
45	807.8	797.9	801.6	776.8	775.5	786.4	816.2	804.4	40- 45	308.2	1816	54.1, 54.1
50	718.6	710.8	710.8	696.8	690.3	707.7	726.8	717.8	45- 50	304.1	2120	63.2, 63.2
55	625.3	623.1	619.9	616.4	602.0	629.6	637.3	630.7	50- 55	289.0	2409	71.8, 71.8
60	529.5	523.2	529.0	517.6	509.6	531.9	547.9	531.7	55- 60	264.8	2674	79.7, 79.7
65	430.7	426.2	431.9	419.2	423.1	436.3	449.3	435.1	60- 65	232.4	2907	86.6, 86.6
70	332.2	329.4	334.8	320.0	325.5	340.0	350.7	337.8	65- 70	191.8	3098	92.3, 92.3
75	235.9	232.9	237.7	222.5	227.9	241.8	252.1	239.9	70- 75	145.5	3244	96.7, 96.7
80	140.5	121.1	0	113.2	135.4	127.4	0	126.2	75- 80	86.43	3330	99.3, 99.3
85	56.39	0	0	0	54.67	0	0	0	80- 85	22.52	3353	99.9, 99.9
90	1.931	0	0	0	2.110	0	0	0	85- 90	2.356	3355	100, 100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

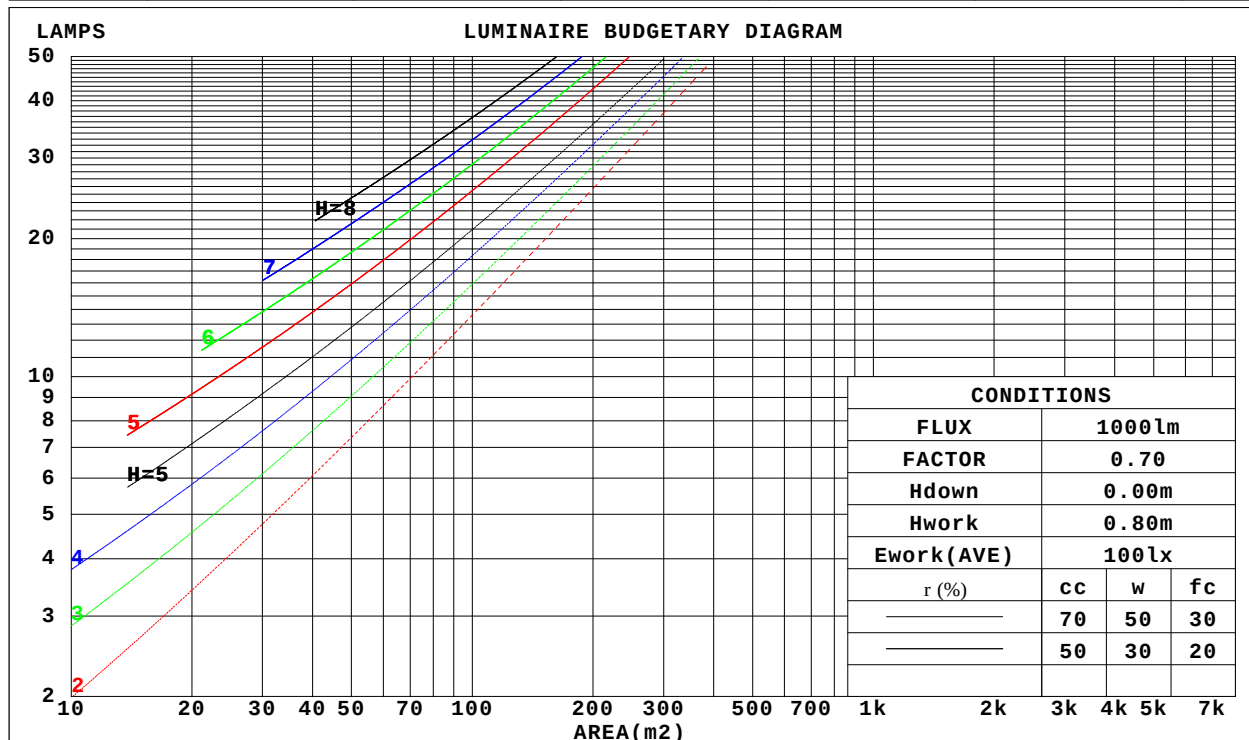
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 余静
 Test Date: 2017-07-04

g Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.274
 Humidity: 65.0%
 Test Distance: 15.338m [K=1.0000]
 Remarks: 32W 300X1200北美面板灯 4000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.7V I:0.2659A P:31.64W PF:0.9861 Lamp Flux:3355.18x1 lm		
NAME: 面板灯	TYPE:	WEIGHT:
DIM.:	SPEC.:32W	SERIAL No.:1
MFR.: AOTOM	SUR.:	PROTECTION ANGLE:

r CC	80%			70%			50%			30%			10%			0
r W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	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	1.02	1.02	1.02	.00
1.0	1.04	1.00	.97	1.02	.98	.95	.98	.95	.92	.94	.92	.89	.90	.88	.87	.84
2.0	.91	.84	.79	.89	.83	.78	.86	.80	.76	.82	.78	.74	.79	.76	.72	.70
3.0	.80	.72	.65	.78	.71	.65	.75	.69	.63	.73	.67	.62	.70	.65	.61	.59
4.0	.71	.62	.55	.69	.61	.55	.67	.60	.54	.64	.58	.53	.62	.57	.53	.50
5.0	.63	.54	.47	.62	.53	.47	.60	.52	.47	.58	.51	.46	.56	.50	.46	.43
6.0	.57	.48	.41	.56	.47	.41	.54	.46	.41	.52	.46	.40	.51	.45	.40	.38
7.0	.51	.43	.36	.51	.42	.36	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34
8.0	.47	.38	.33	.46	.38	.32	.45	.37	.32	.44	.37	.32	.42	.36	.32	.30
9.0	.43	.35	.29	.42	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.26	.39	.32	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:余静
 Test Date:2017-07-04

g Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.274
 Humidity:65.0%
 Test Distance:15.338m [K=1.0000]
 Remarks: 32W 300X1200北美面板灯4000K

WEC AND CCEC

Test:U:120.7V I:0.2659A P:31.64W PF:0.9861 Lamp Flux:3355.18x1 lm					
NAME: 面板灯			TYPE:		WEIGHT:
DIM.:			SPEC.:32W		SERIAL No.:1
MFR.: AOTOM			SUR.:		PROTECTION ANGLE:

r c c	80%			70%			50%			30%			10%			0
r w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r f c	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.299	.170	.054	.291	.166	.053	.278	.160	.051	.266	.153	.049	.255	.148	.048	
2.0	.286	.157	.048	.280	.154	.048	.268	.149	.046	.258	.145	.045	.248	.140	.044	
3.0	.267	.142	.043	.261	.140	.042	.251	.136	.041	.242	.132	.041	.233	.129	.040	
4.0	.247	.128	.038	.242	.127	.037	.233	.124	.037	.225	.121	.036	.217	.118	.036	
5.0	.229	.117	.034	.225	.115	.034	.217	.113	.033	.209	.110	.033	.202	.108	.032	
6.0	.213	.107	.031	.209	.106	.030	.202	.103	.030	.195	.101	.030	.189	.099	.029	
7.0	.198	.098	.028	.195	.097	.028	.188	.095	.027	.182	.093	.027	.177	.092	.027	
8.0	.185	.091	.025	.182	.090	.025	.176	.088	.025	.171	.087	.025	.166	.085	.025	
9.0	.174	.084	.023	.171	.083	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.163	.078	.022	.161	.078	.022	.156	.077	.022	.152	.075	.021	.148	.074	.021	

r c c	80%			70%			50%			30%			10%			0
r w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r f c	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.180	.156	.135	.154	.134	.116	.105	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.172	.132	.099	.147	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.164	.114	.075	.141	.099	.065	.096	.068	.045	.056	.040	.027	.018	.013	.009	
4.0	.156	.101	.059	.134	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.149	.091	.047	.128	.078	.041	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.142	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.033	.116	.065	.029	.080	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.129	.069	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.004	
9.0	.123	.065	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:余静
 Test Date:2017-07-04

Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.274
 Humidity:65.0%
 Test Distance:15.338m [K=1.0000]
 Remarks: 32W 300X1200北美面板灯4000K

Uncorrected UGR Table

Test:U:120.7V I:0.2659A P:31.64W PF:0.9861 Lamp Flux:3355.18x1 lm										
NAME: 面板灯					TYPE:			WEIGHT:		
DIM.:					SPEC.:32W			SERIAL No.:1		
MFR.: AOTOM					SUR.:			PROTECTION 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	16.7	18.2	17.0	18.4	18.6	16.8	18.3	17.1	18.5	18.7
	18.2	19.6	18.5	19.8	20.1	18.3	19.7	18.6	20.0	20.2
	18.7	20.1	19.1	20.3	20.6	19.0	20.3	19.3	20.5	20.8
	19.1	20.4	19.4	20.6	20.9	19.0	20.3	19.4	20.5	20.8
	19.2	20.4	19.6	20.7	21.0	19.0	20.2	19.3	20.5	20.8
	19.3	20.4	19.6	20.7	21.0	18.9	20.1	19.3	20.4	20.7
4H	17.3	18.7	17.7	18.9	19.2	17.4	18.7	17.7	19.0	19.2
	19.0	20.1	19.3	20.4	20.7	19.1	20.3	19.5	20.6	20.9
	19.6	20.7	20.0	21.0	21.3	19.9	20.9	20.3	21.3	21.6
	20.1	21.0	20.5	21.4	21.8	20.0	20.9	20.4	21.3	21.6
	20.2	21.1	20.7	21.5	21.9	19.9	20.8	20.4	21.2	21.6
	20.3	21.1	20.8	21.5	21.9	19.9	20.7	20.3	21.1	21.5
8H	19.9	20.8	20.3	21.1	21.5	20.1	21.0	20.5	21.4	21.8
	20.5	21.2	21.0	21.6	22.1	20.3	21.0	20.7	21.4	21.8
	20.7	21.4	21.2	21.8	22.2	20.3	20.9	20.7	21.3	21.8
	20.9	21.4	21.4	21.9	22.3	20.2	20.8	20.7	21.2	21.7
12H	19.9	20.7	20.3	21.1	21.5	20.1	20.9	20.6	21.3	21.7
	20.5	21.1	21.0	21.6	22.0	20.3	21.0	20.8	21.4	21.8
	20.7	21.3	21.2	21.7	22.2	20.3	20.8	20.8	21.3	21.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.3				
1.5H	+ 0.1 / - 0.2					+ 0.1 / - 0.3				
2.0H	+ 0.3 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 3355 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.2)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:余静
 Test Date:2017-07-04

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.274
 Humidity:65.0%
 Test Distance:15.338m [K=1.0000]
 Remarks: 32W 300X1200北美面板灯4000K

UTILIZATION FACTORS TABLE

Test:U:120.7V I:0.2659A P:31.64W PF:0.9861 Lamp Flux:3355.18x1 lm		
NAME: 面板灯	TYPE:	WEIGHT:
DIM.:	SPEC.:32W	SERIAL No.:1
MFR.: AOTOM	SUR.:	PROTECTION ANGLE:

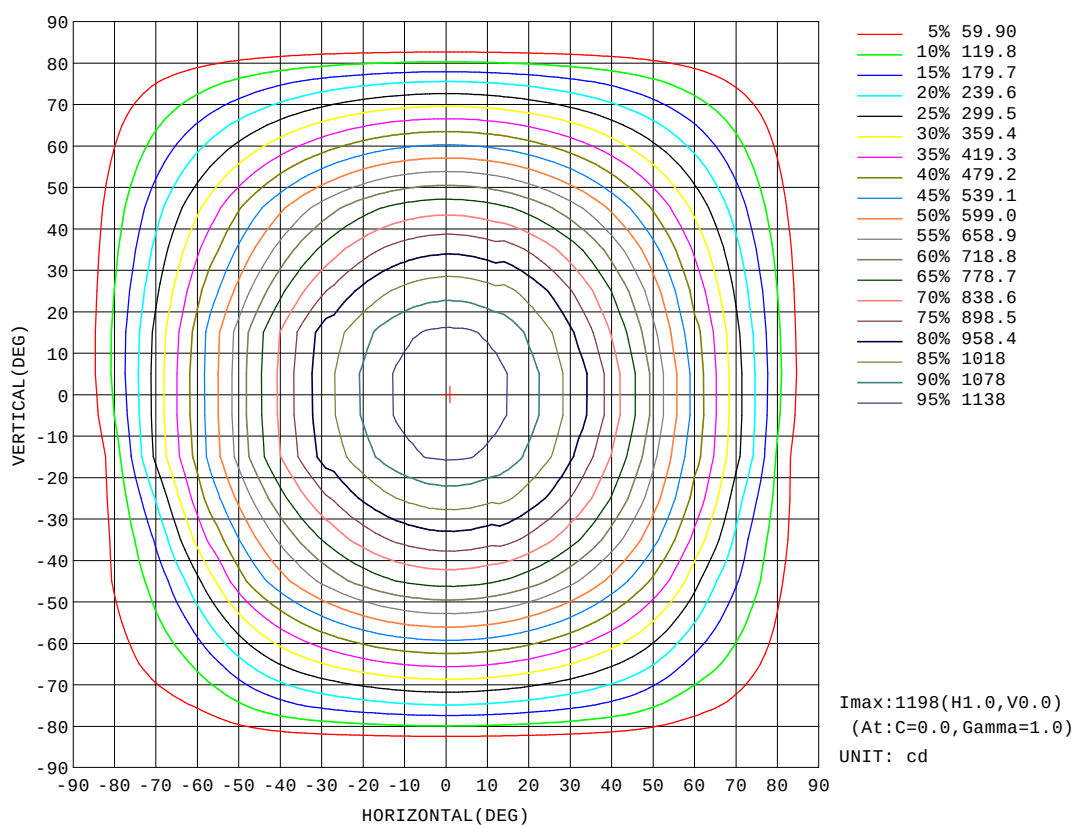
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	49	65	55	48	41
1.00	76	65	58	75	65	58	73	66	57	50
1.25	83	73	66	82	72	66	79	71	65	57
1.50	88	79	72	87	78	71	84	76	70	63
2.00	95	87	81	94	86	80	90	84	78	71
2.50	99	92	86	97	90	85	93	88	83	75
3.00	103	96	91	101	94	90	97	92	87	79
4.00	107	101	97	104	99	95	100	96	93	84
5.00	109	104	101	107	103	99	102	99	96	87
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: HIGH
 Temperature:25.3DEG
 Operators:余静
 Test Date:2017-07-04

Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.274
 Humidity:65.0%
 Test Distance:15.338m [K=1.0000]
 Remarks: 32W 300X1200北美面板灯4000K

ISOCANDELA DIAGRAM

Test:U:120.7V I:0.2659A P:31.64W PF:0.9861 Lamp Flux:3355.18x1 lm		
NAME: 面板灯	TYPE:	WEIGHT:
DIM.:	SPEC.:32W	SERIAL No.:1
MFR.: AOTOM	SUR.:	PROTECTION ANGLE:



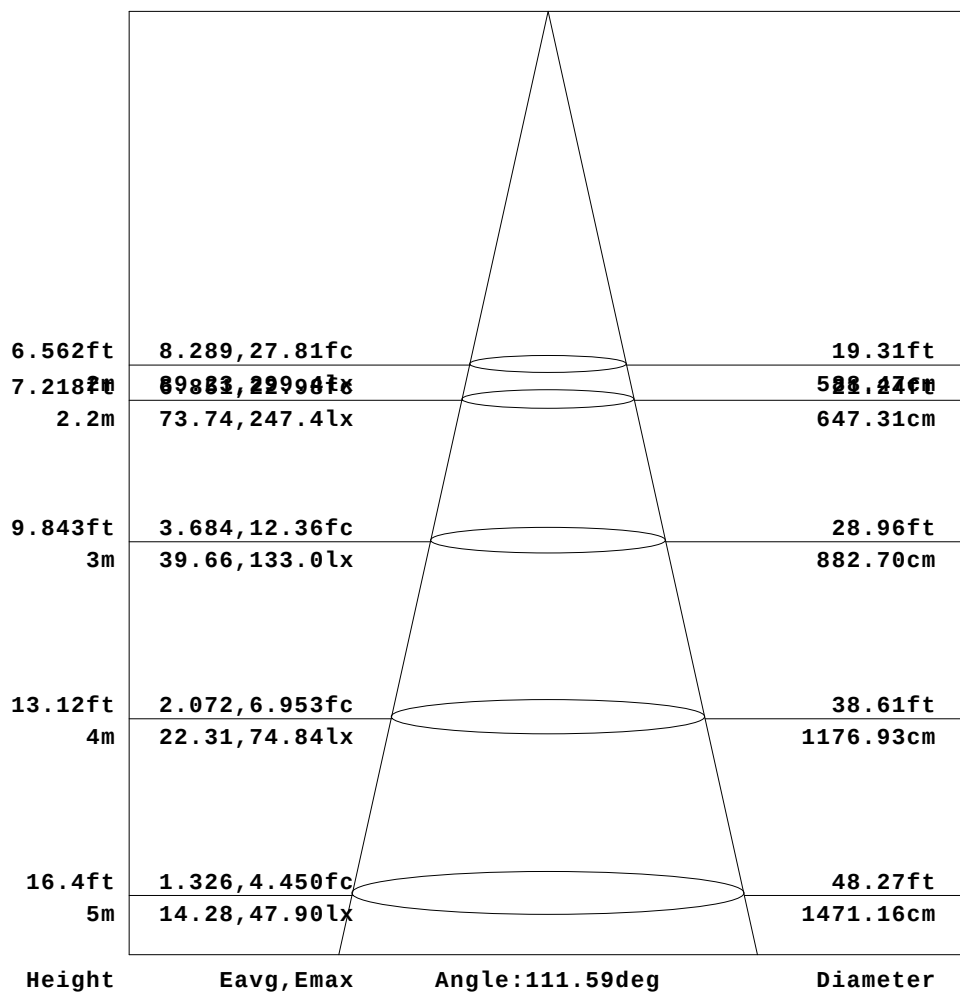
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:余静
 Test Date:2017-07-04

Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.274
 Humidity:65.0%
 Test Distance:15.338m [K=1.0000]
 Remarks: 32W 300X1200北美面板灯4000K

AAI Figure

Test:U:120.7V I:0.2659A P:31.64W PF:0.9861 Lamp Flux:3355.18x1 lm		
NAME: 面板灯	TYPE:	WEIGHT:
DIM.:	SPEC.:32W	SERIAL No.:1
MFR.: AOTOM	SUR.:	PROTECTION ANGLE:

Flux out:2465 lm



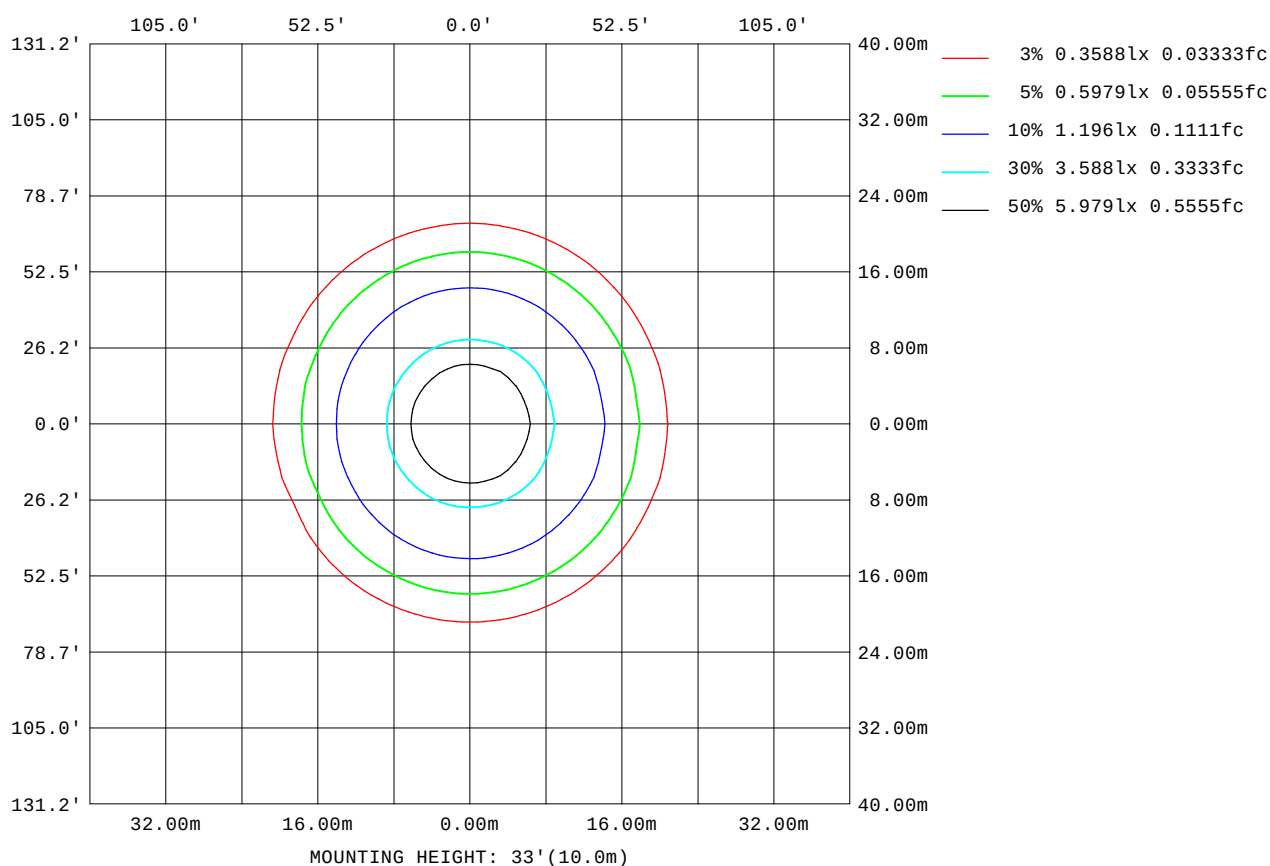
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:余静
 Test Date:2017-07-04

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.274
 Humidity:65.0%
 Test Distance:15.338m [K=1.0000]
 Remarks: 32W 300X1200北美面板灯4000K

ISOLUX DIAGRAM

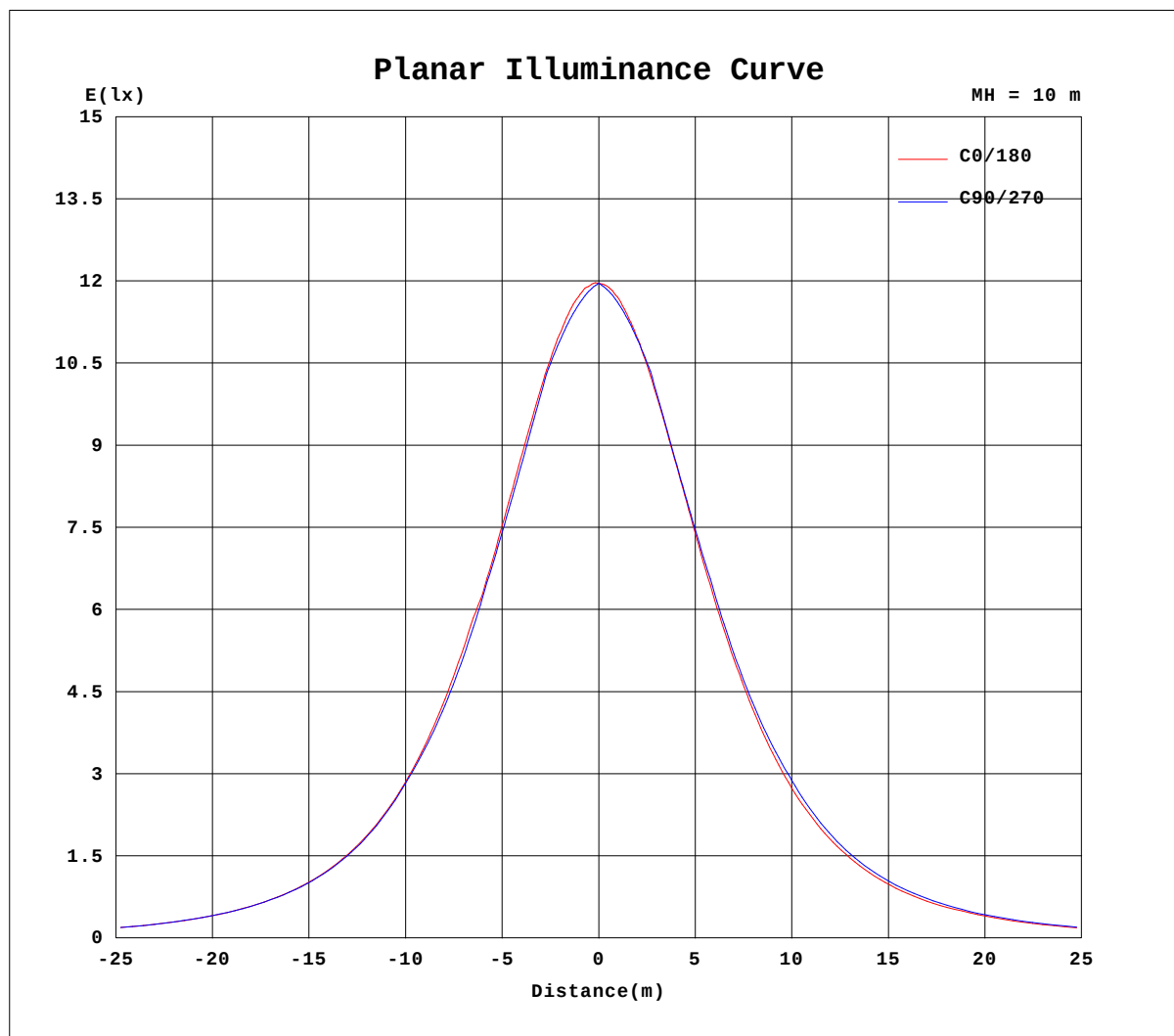
Test:U:120.7V I:0.2659A P:31.64W PF:0.9861 Lamp Flux:3355.18x1 lm		
NAME: 面板灯	TYPE:	WEIGHT:
DIM.:	SPEC.:32W	SERIAL No.:1
MFR.: AOTOM	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:余静
Test Date:2017-07-04

g Range: 0 - 90DEG
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Humidity:65.0%
Test Distance:15.338m [K=1.0000]
Remarks: 32W 300X1200北美面板灯4000K

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 余静
Test Date: 2017-07-04

Range: 0 - 90DEG
Interval: 0.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.274
Humidity: 65.0%
Test Distance: 15.338m [K=1.0000]
Remarks: 32W 300X1200北美面板灯4000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.7V I:0.2659A P:31.64W PF:0.9861 Lamp Flux:3355.18x1 lm		
NAME: 面板灯	TYPE:	WEIGHT:
DIM.:	SPEC.:32W	SERIAL No.:1
MFR.: AOTOM	SUR.:	PROTECTION ANGLE:

Table- -1

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 余静
Test Date: 2017-07-04

```

Range: 0 - 90DEG
Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.274
Humidity: 65.0%
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```

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.7V I:0.2659A P:31.64W PF:0.9861 Lamp Flux:3355.18x1 lm		
NAME: 面板灯	TYPE:	WEIGHT:
DIM.:	SPEC.:32W	SERIAL No.:1
MFR.: AOTOM	SUR.:	PROTECTION ANGLE:

Table - -2

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 余静
Test Date: 2017-07-04

Range: 0 - 90DEG
Interval: 0.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.274
Humidity: 65.0%
Test Distance: 15.338m [K=1.0000]
Remarks: 32W 300X1200 北美面板灯 4000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.7V I:0.2659A P:31.64W PF:0.9861 Lamp Flux:3355.18x1 lm		
NAME: 面板灯	TYPE:	WEIGHT:
DIM.:	SPEC.:32W	SERIAL No.:1
MFR.: AOTOM	SUR.:	PROTECTION ANGLE:

Table - -3

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 余静
Test Date: 2017-07-04

```

Range: 0 - 90DEG
Interval: 0.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.274
Humidity: 65.0%
Test Distance: 15.338m [K=1.0000]
Remarks: 32W 300X1200北美面板灯4000K

```

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.7V I:0.2659A P:31.64W PF:0.9861 Lamp Flux:3355.18x1 lm		
NAME: 面板灯	TYPE:	WEIGHT:
DIM.:	SPEC.:32W	SERIAL No.:1
MFR.: AOTOM	SUR.:	PROTECTION ANGLE:

Table- -4

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 余静
Test Date: 2017-07-04

```

Range: 0 - 90DEG
Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.274
Humidity: 65.0%
Test Distance: 15.338m [K=1.0000]
Remarks: 32W 300X1200北美面板灯4000K

```