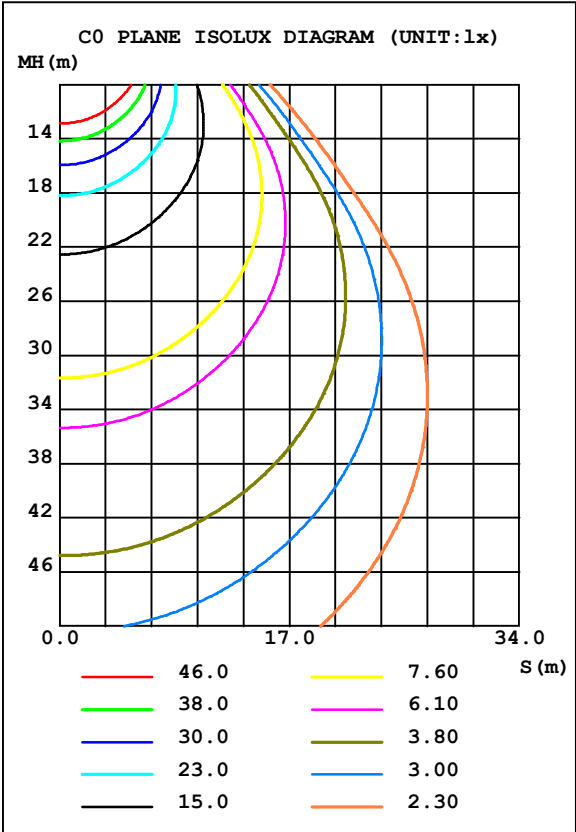
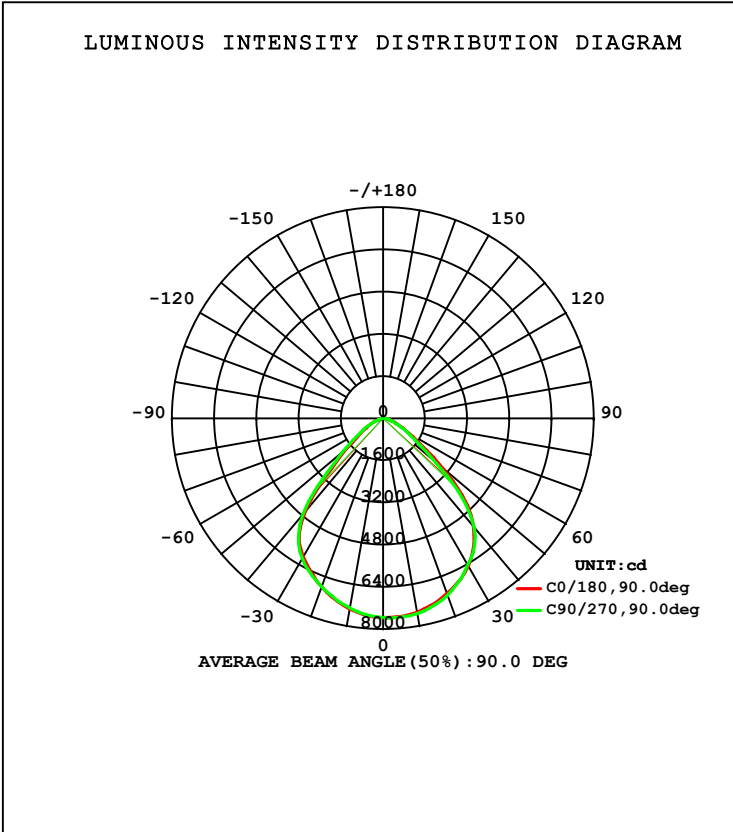


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.8V I:0.4248A P:93.65W PF:0.9595 Lamp Flux:14551.5x1 lm		
NAME: 2512232波兰U11高棚灯100W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:036
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
2512232波兰U11高棚灯100W-4000K		Eff: 155.37 lm/W			
		Imax(cd)	7582	S/MH(C0/180)	1.27
NOMINAL POWER(W)	96	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	14551	η UP,DN(C0-180)	0.2,53.6
NOMINAL FLUX(lm)	14551.5	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,46.1
LAMPS INSIDE	1	η up(%)	0.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	229.8	η down(%)	99.7	CIBSE SHR MAX	1.35



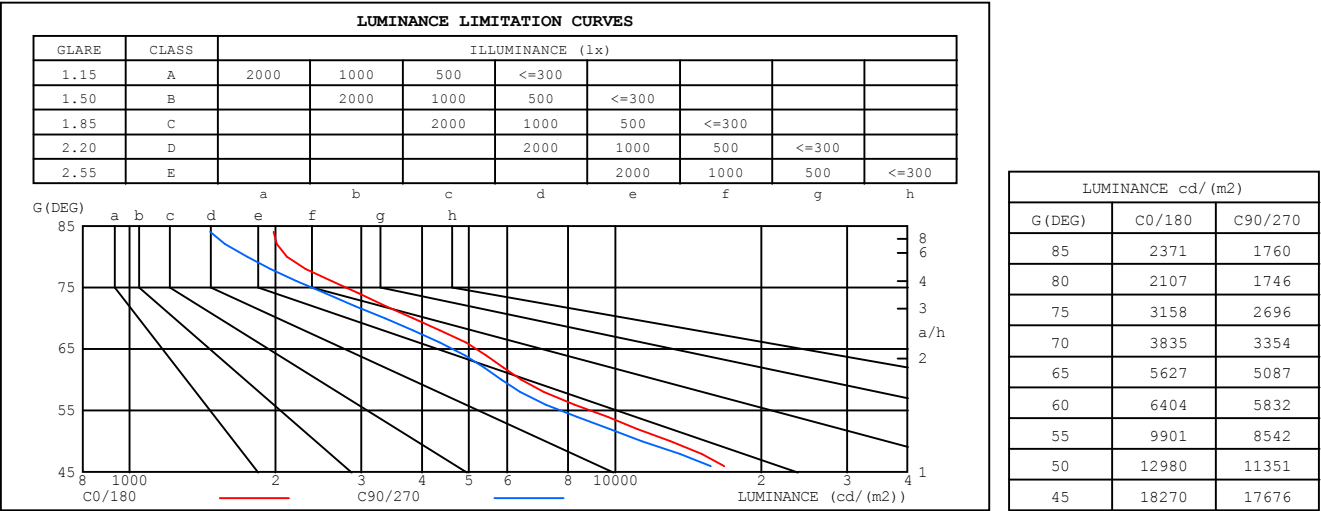
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-04-09

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	7462	7516	7342	7301					0- 10	714.3	714.3	4.91,4.91
20	7086	7149	6810	6809					10- 20	2036	2750	18.9,18.9
30	6467	6435	6066	6156					20- 30	3064	5814	40,40
40	5334	5368	4588	4727					30- 40	3591	9405	64.6,64.6
50	2980	2647	1848	2034					40- 50	2853	12258	84.2,84.2
60	1144	1058	731.8	865.7					50- 60	1364	13622	93.6,93.6
70	468.6	416.2	255.8	306.7					60- 70	626.7	14249	97.9,97.9
80	130.7	110.0	67.74	66.76					70- 80	216.1	14465	99.4,99.4
90	15.45	3.791	0.5832	0.7894					80- 90	46.49	14512	99.7,99.7
100	0.8524	0.9125	0.8532	0.6149					90-100	1.328	14513	99.7,99.7
110	1.659	2.007	1.503	1.207					100-110	1.184	14514	99.7,99.7
120	4.438	4.857	3.300	2.777					110-120	2.527	14517	99.8,99.8
130	8.721	9.068	6.550	5.919					120-130	5.067	14522	99.8,99.8
140	12.40	12.69	10.18	9.542					130-140	7.254	14529	99.8,99.8
150	15.61	15.70	14.07	13.28					140-150	8.070	14537	99.9,99.9
160	17.83	17.84	16.98	16.29					150-160	7.413	14545	100,100
170	18.91	19.00	18.78	17.95					160-170	5.091	14550	100,100
180	19.31	19.25	19.69	18.93					170-180	1.807	14551	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



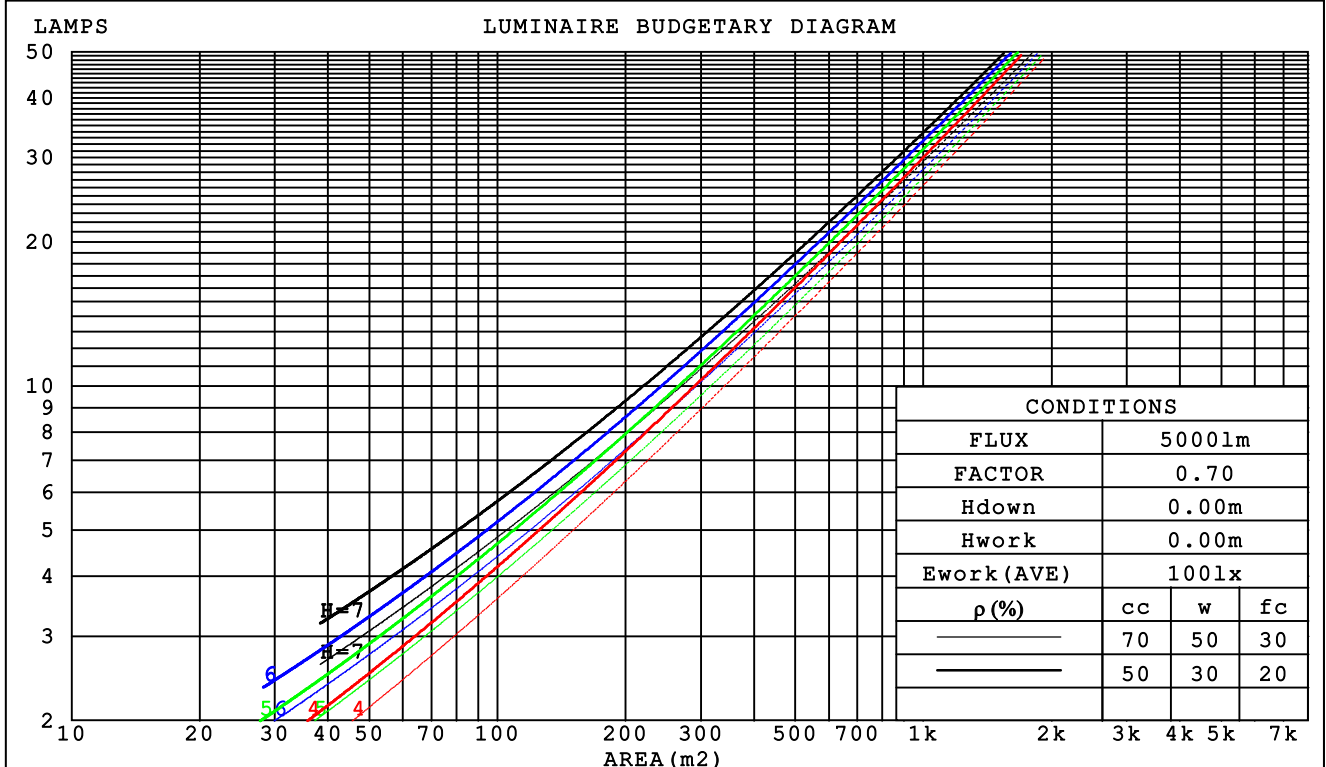
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-04-09

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.8V I:0.4248A P:93.65W PF:0.9595 Lamp Flux:14551.5x1 lm		
NAME: 2512232波兰U11高棚灯100W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:036
MFR.:	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-04-09

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:229.8V I:0.4248A P:93.65W PF:0.9595 Lamp Flux:14551.5x1 lm		
NAME: 2512232波兰U11高棚灯100W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:036
MFR.:	SUR.:	PROTECTION 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	.233	.133	.042	.226	.129	.041	.213	.122	.039	.201	.116	.037	.190	.110	.036		
2.0	.227	.124	.038	.221	.122	.037	.209	.116	.036	.199	.112	.035	.189	.107	.034		
3.0	.216	.115	.034	.211	.113	.034	.201	.109	.033	.192	.105	.032	.184	.102	.031		
4.0	.205	.106	.031	.200	.105	.031	.191	.102	.030	.183	.099	.030	.176	.096	.029		
5.0	.194	.099	.029	.189	.097	.028	.182	.095	.028	.175	.092	.027	.168	.090	.027		
6.0	.183	.092	.026	.179	.091	.026	.172	.088	.026	.166	.086	.025	.160	.084	.025		
7.0	.173	.086	.024	.170	.085	.024	.164	.083	.024	.158	.081	.024	.153	.079	.023		
8.0	.164	.080	.023	.161	.079	.022	.155	.078	.022	.150	.076	.022	.145	.075	.022		
9.0	.155	.075	.021	.153	.074	.021	.148	.073	.021	.143	.072	.021	.139	.071	.020		
10.0	.148	.071	.020	.145	.070	.020	.141	.069	.019	.137	.068	.019	.133	.067	.019		

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	.193	.193	.193	.165	.165	.165	.112	.112	.112	.065	.065	.065	.021	.021	.021	
1.0	.177	.159	.143	.152	.136	.123	.104	.094	.085	.060	.054	.049	.019	.017	.016	
2.0	.166	.134	.108	.142	.116	.093	.097	.080	.065	.056	.047	.038	.018	.015	.012	
3.0	.156	.116	.084	.134	.100	.073	.092	.070	.051	.053	.041	.030	.017	.013	.010	
4.0	.148	.102	.067	.127	.088	.058	.087	.061	.041	.051	.036	.024	.016	.012	.008	
5.0	.141	.091	.055	.121	.079	.048	.083	.055	.034	.048	.032	.020	.016	.011	.007	
6.0	.134	.083	.046	.115	.072	.040	.079	.050	.028	.046	.029	.017	.015	.010	.006	
7.0	.128	.076	.039	.110	.065	.034	.076	.046	.024	.044	.027	.014	.014	.009	.005	
8.0	.122	.070	.034	.105	.060	.029	.073	.042	.021	.042	.025	.012	.014	.008	.004	
9.0	.117	.065	.030	.101	.056	.026	.070	.039	.018	.041	.023	.011	.013	.008	.004	
10.0	.112	.060	.026	.096	.053	.023	.067	.037	.016	.039	.022	.010	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-04-09

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
 Humidity:65.0%
 Test Distance:18.400m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:229.8V I:0.4248A P:93.65W PF:0.9595 Lamp Flux:14551.5x1 lm											
NAME: 2512232波兰U11高棚灯100W-4000K						TYPE:		WEIGHT:			
SPEC.:						DIM.:		SERIAL No.:036			
MFR.:						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	20.3	21.6	20.6	21.8	22.0	20.0	21.3	20.3	21.5	21.7	
	3H	20.5	21.7	20.8	21.9	22.2	20.2	21.4	20.5	21.6	21.8
	4H	20.6	21.7	20.9	21.9	22.2	20.2	21.3	20.5	21.6	21.8
	6H	20.6	21.6	20.9	21.8	22.1	20.2	21.2	20.5	21.5	21.7
	8H	20.5	21.5	20.9	21.8	22.1	20.1	21.1	20.5	21.4	21.7
	12H	20.5	21.5	20.8	21.7	22.0	20.1	21.1	20.5	21.3	21.6
4H	2H	20.3	21.4	20.6	21.7	21.9	20.1	21.2	20.4	21.4	21.6
	3H	20.7	21.6	21.0	21.9	22.2	20.4	21.3	20.7	21.6	21.9
	4H	20.7	21.6	21.1	21.9	22.2	20.4	21.3	20.8	21.6	21.9
	6H	20.8	21.5	21.2	21.9	22.2	20.4	21.2	20.8	21.5	21.9
	8H	20.8	21.5	21.2	21.8	22.2	20.4	21.1	20.8	21.5	21.8
	12H	20.8	21.4	21.2	21.8	22.2	20.4	21.0	20.8	21.4	21.8
8H	4H	20.7	21.4	21.1	21.7	22.1	20.4	21.1	20.8	21.4	21.8
	6H	20.7	21.3	21.2	21.7	22.1	20.4	21.0	20.8	21.4	21.8
	8H	20.8	21.3	21.2	21.7	22.1	20.4	20.9	20.9	21.3	21.8
	12H	20.8	21.2	21.3	21.7	22.1	20.4	20.8	20.9	21.3	21.8
12H	4H	20.6	21.3	21.1	21.7	22.1	20.3	21.0	20.7	21.3	21.7
	6H	20.7	21.2	21.2	21.6	22.1	20.4	20.9	20.8	21.3	21.8
	8H	20.7	21.2	21.2	21.6	22.1	20.4	20.8	20.9	21.3	21.7
Variations with the observer position at spacings:											
S = 1.0H	+ 1.3 / - 1.7					+ 1.5 / - 2.0					
1.5H	+ 0.9 / - 1.5					+ 0.9 / - 1.6					
2.0H	+ 3.0 / - 2.2					+ 3.1 / - 2.1					

CIE Pub.117 Corrected 14551 lm Total Lamp Luminous Flux. (8log(F/F0) = 9.3)

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-04-09

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
 Humidity:65.0%
 Test Distance:18.400m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:229.8V I:0.4248A P:93.65W PF:0.9595 Lamp Flux:14551.5x1 lm		
NAME: 2512232波兰U11高棚灯100W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:036
MFR.:	SUR.:	PROTECTION ANGLE:

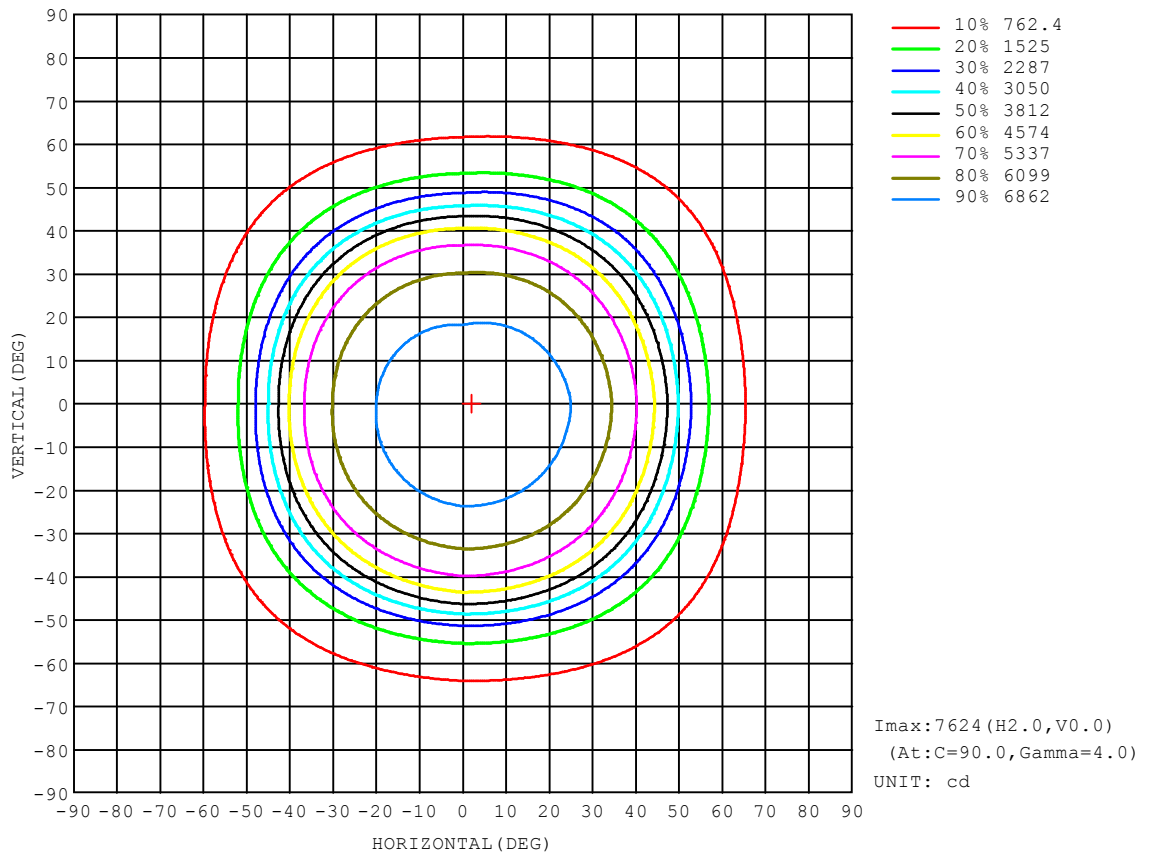
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	60	54	68	59	54	67	59	54	48
0.80	79	70	64	78	69	64	77	69	63	58
1.00	87	78	73	86	78	72	84	78	72	66
1.25	93	85	80	92	84	79	89	83	78	73
1.50	97	90	85	96	89	84	93	87	83	77
2.00	102	96	91	101	95	90	97	93	89	82
2.50	105	99	95	103	98	94	100	95	92	85
3.00	107	102	98	105	101	97	102	98	95	88
4.00	110	106	103	108	104	101	104	101	99	90
5.00	112	108	105	110	106	104	105	103	101	92
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2026-04-09

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.281
 Humidity: 65.0%
 Test Distance: 18.400m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:229.8V I:0.4248A P:93.65W PF:0.9595 Lamp Flux:14551.5x1 lm		
NAME: 2512232波兰U11高棚灯100W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:036
MFR.:	SUR.:	PROTECTION ANGLE:

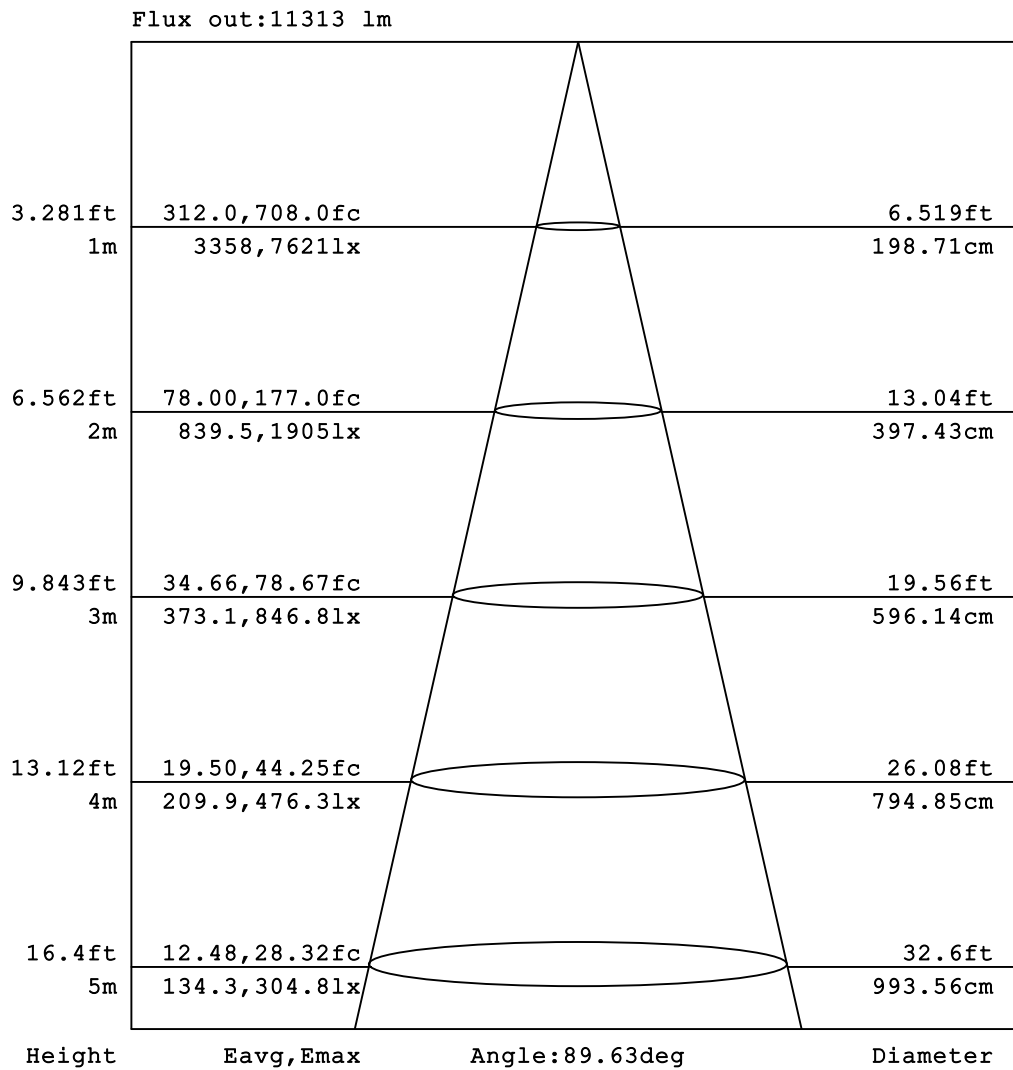


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-04-09

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

AAI Figure

Test:U:229.8V I:0.4248A P:93.65W PF:0.9595 Lamp Flux:14551.5x1 lm		
NAME: 2512232波兰U11高棚灯100W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:036
MFR.:	SUR.:	PROTECTION ANGLE:



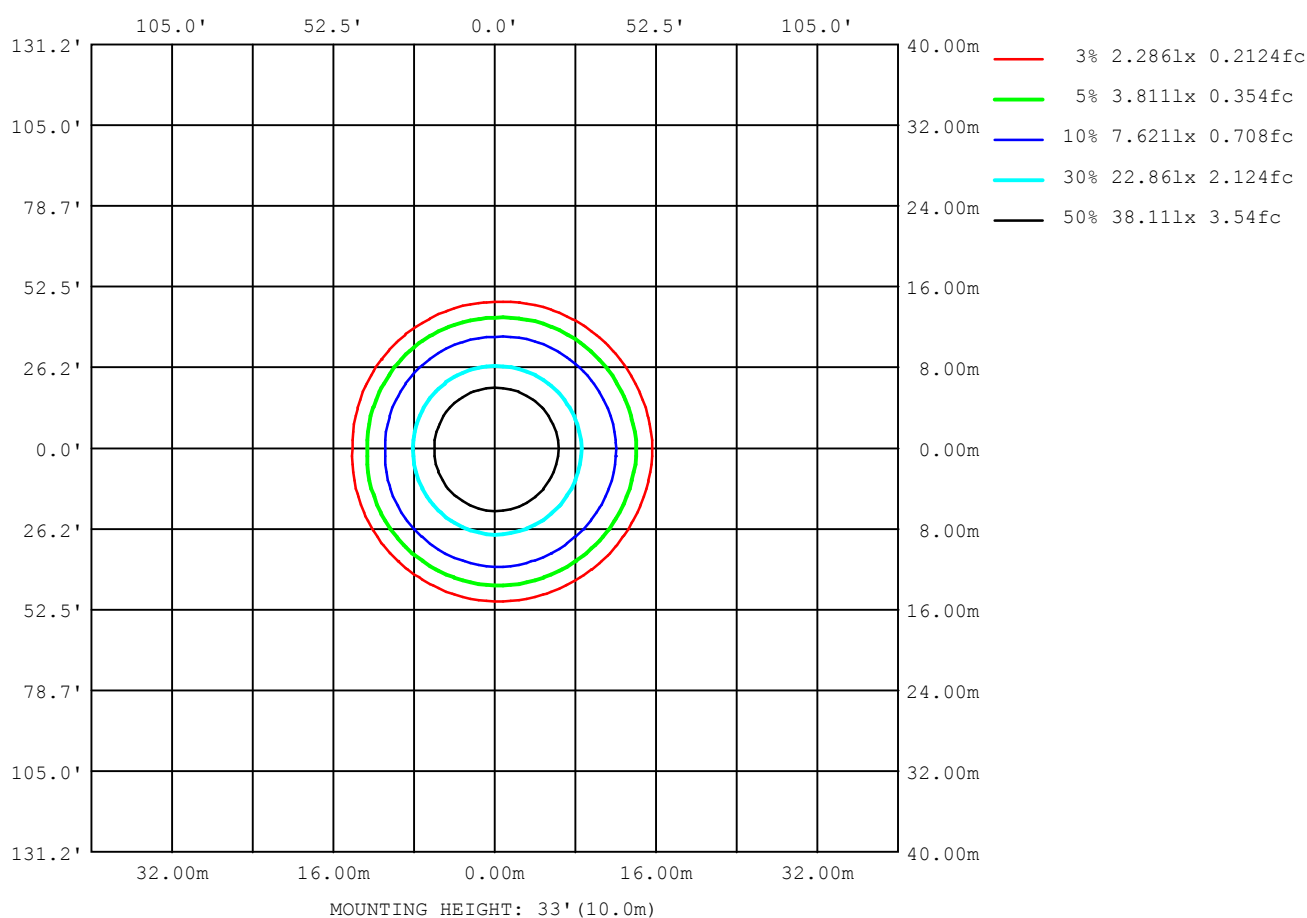
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-04-09

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity:65.0%
Test Distance:18.400m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

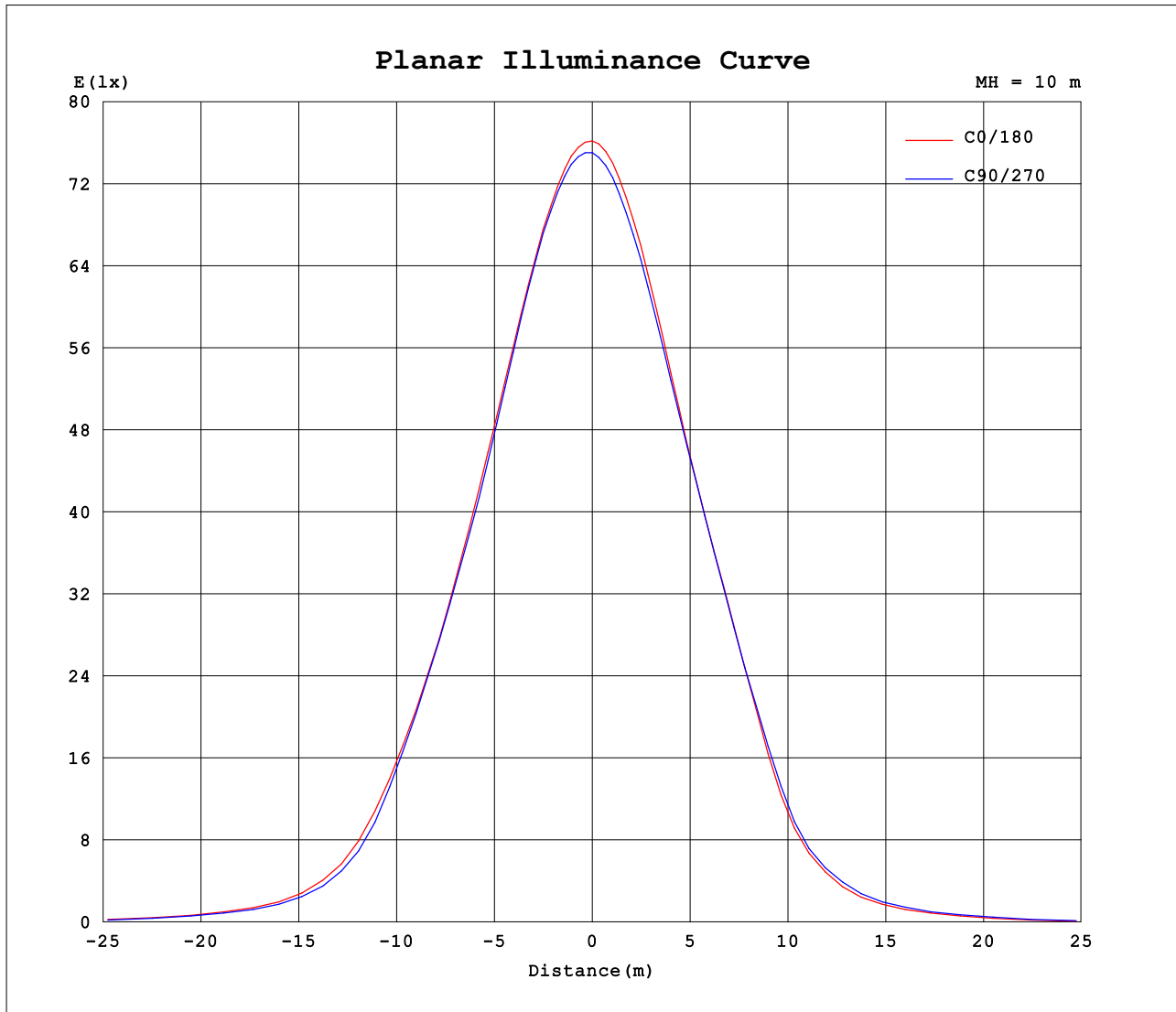
Test:U:229.8V I:0.4248A P:93.65W PF:0.9595 Lamp Flux:14551.5x1 lm		
NAME: 2512232波兰U11高棚灯100W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:036
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C Range: 0 - 360DEG
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Test Distance:18.400m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
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Test Speed: HIGH
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γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.281
Humidity: 65.0%
Test Distance: 18.400m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.8V I:0.4248A P:93.65W PF:0.9595 Lamp Flux:14551.5x1 lm		
NAME: 2512232波兰U11高棚灯100W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:036
MFR.:	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	7563	7563	7563	7563															
5	7556	7582	7514	7492															
10	7462	7516	7342	7301															
15	7340	7409	7165	7129															
20	7086	7149	6810	6809															
25	6872	6899	6525	6565															
30	6467	6435	6066	6156															
35	6101	6117	5680	5745															
40	5334	5368	4588	4727															
45	4615	4535	3324	3611															
50	2980	2647	1848	2034															
55	2029	1778	1227	1410															
60	1144	1058	732	866															
65	849	780	494	620															
70	469	416	256	307															
75	292	253	153	185															
80	131	110	67.7	66.8															
85	73.8	55.7	29.5	36.5															
90	15.5	3.79	0.58	0.79															
95	1.01	0.62	0.65	0.57															
100	0.85	0.91	0.85	0.61															
105	0.94	1.28	1.05	0.75															
110	1.66	2.01	1.50	1.21															
115	2.42	2.87	2.06	1.71															
120	4.44	4.86	3.30	2.78															
125	6.19	6.61	4.49	3.87															
130	8.72	9.07	6.55	5.92															
135	10.2	10.6	8.05	7.38															
140	12.4	12.7	10.2	9.54															
145	13.8	14.0	11.7	10.9															
150	15.6	15.7	14.1	13.3															
155	16.6	16.7	15.5	14.8															
160	17.8	17.8	17.0	16.3															
165	18.4	18.5	17.8	17.0															
170	18.9	19.0	18.8	18.0															
175	19.2	19.1	19.2	18.5															
180	19.3	19.3	19.7	18.9															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
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γ Range: 0 - 180DEG
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