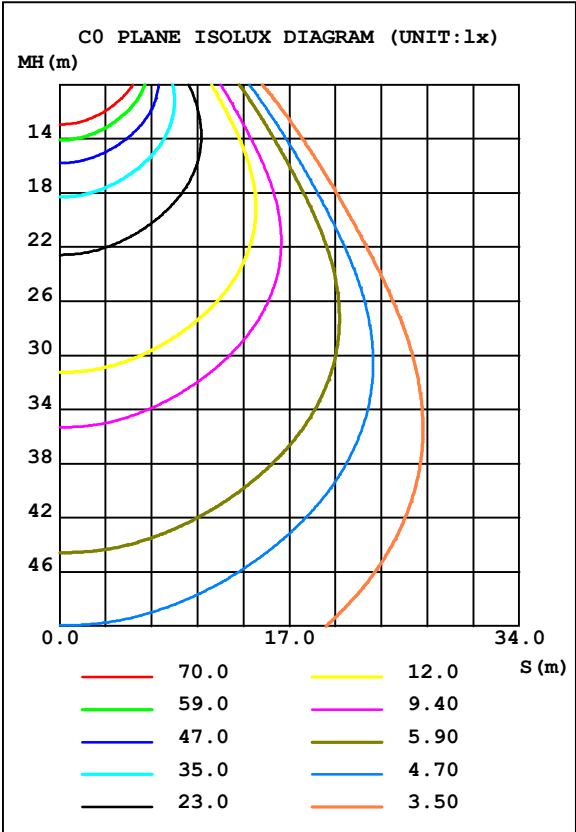
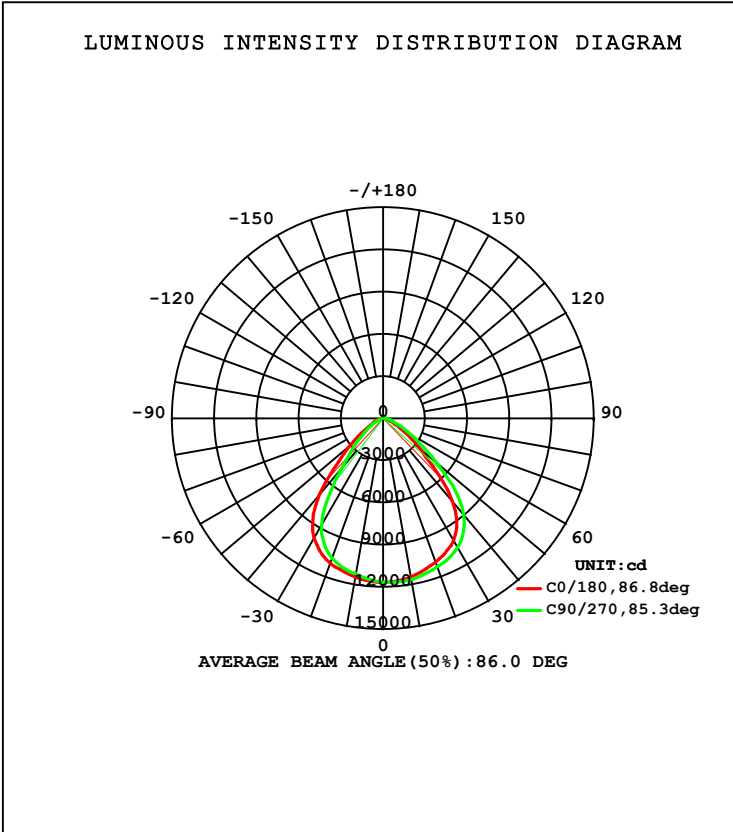


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.7V I:0.6328A P:142.0W PF:0.9772 Lamp Flux:22066.4x1 lm		
NAME: 2512232波兰U11高棚灯150W-6500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:036
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
2512232波兰U11高棚灯150W-6500K		Eff: 155.34 lm/W			
		Imax(cd)	11683	S/MH(C0/180)	1.26
NOMINAL POWER(W)	146	LOR(%)	100.0	S/MH(C90/270)	1.34
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	22066	η UP,DN(C0-180)	0.2,55.7
NOMINAL FLUX(lm)	22066.4	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,44.0
LAMPS INSIDE	1	η up(%)	0.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	229.7	η down(%)	99.7	CIBSE SHR MAX	1.25



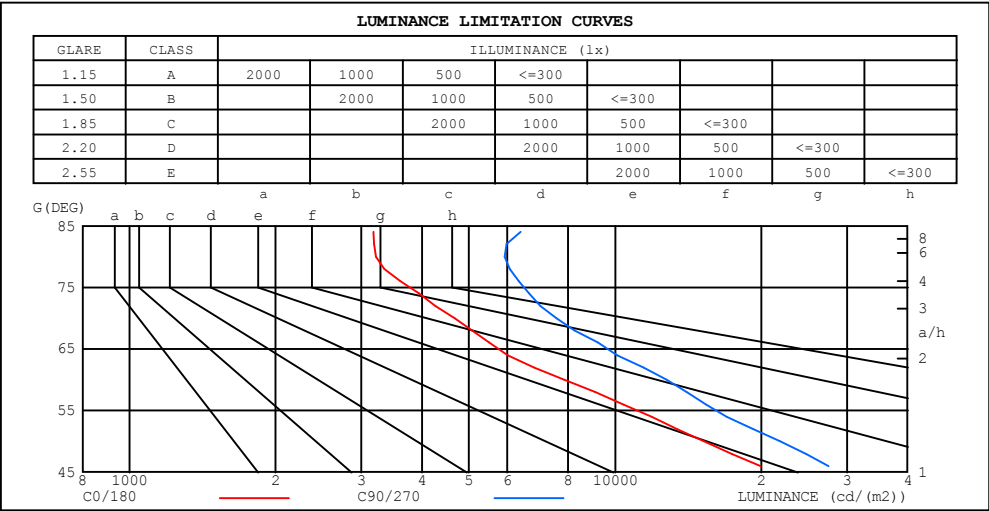
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-04-09

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:

ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	1145	1164	1147	1125					0- 10	1103	1103	5,5
20	1090	1127	1099	1060					10- 20	3173	4275	19.4,19.4
30	1003	1061	982.9	873.8					20- 30	4823	9099	41.2,41.2
40	770.4	896.4	704.1	459.0					30- 40	5362	14460	65.5,65.5
50	350.4	508.3	317.1	213.5					40- 50	4000	18460	83.7,83.7
60	140.5	230.9	127.8	89.51					50- 60	2080	20540	93.1,93.1
70	57.11	93.89	52.87	28.99					60- 70	951.9	21492	97.4,97.4
80	19.98	37.22	17.53	7.753					70- 80	386.2	21878	99.1,99.1
90	1.884	11.41	0.1617	0.1069					80- 90	115.9	21994	99.7,99.7
100	0.2517	0.1819	0.1326	0.1477					90-100	13.15	22007	99.7,99.7
110	0.3279	0.2391	0.2135	0.2885					100-110	2.192	22009	99.7,99.7
120	0.7432	0.5280	0.4250	0.5682					110-120	3.946	22013	99.8,99.8
130	1.480	1.108	0.8749	1.066					120-130	7.481	22021	99.8,99.8
140	2.056	1.751	1.452	1.635					130-140	11.01	22032	99.8,99.8
150	2.512	2.290	2.037	2.181					140-150	12.45	22044	99.9,99.9
160	2.851	2.673	2.585	2.619					150-160	11.45	22056	100,100
170	2.982	2.915	2.879	2.849					160-170	7.943	22064	100,100
180	3.011	2.974	3.013	2.954					170-180	2.808	22066	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		



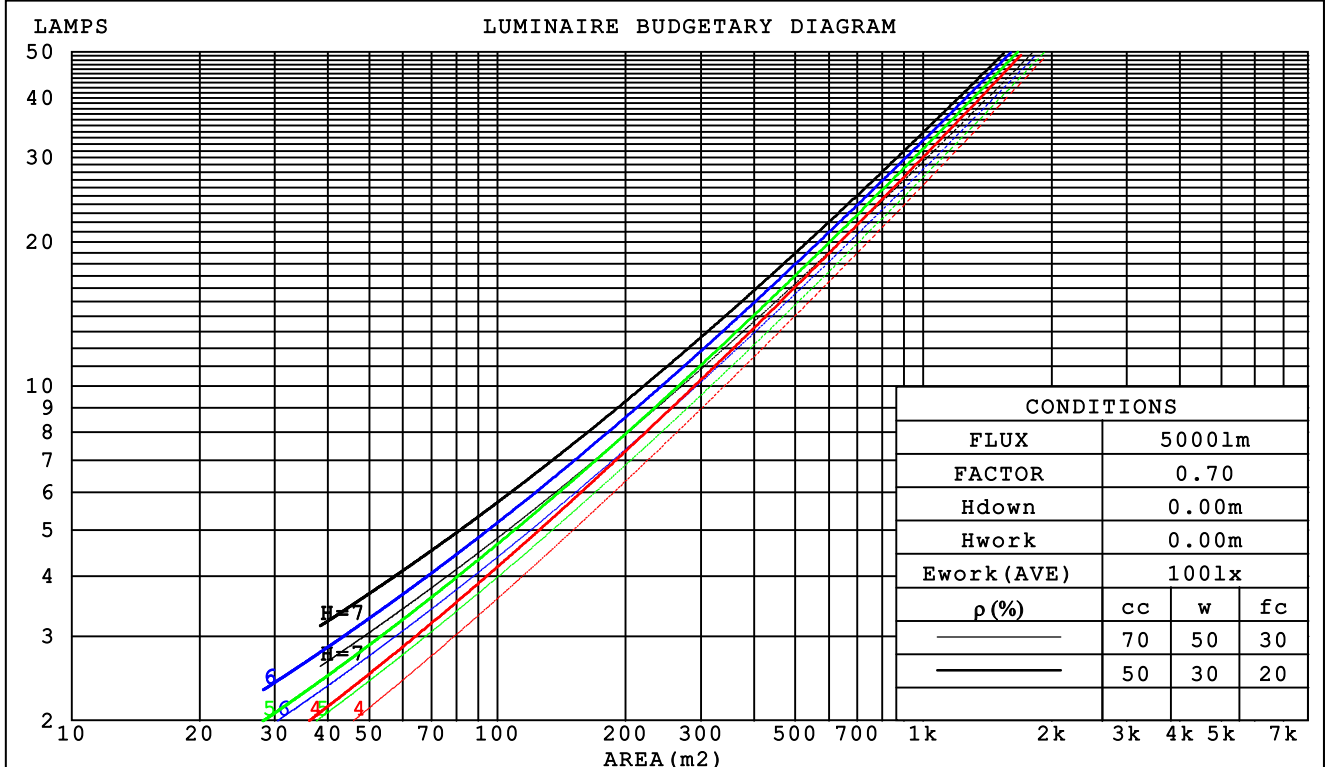
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-04-09

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:229.7V I:0.6328A P:142.0W PF:0.9772 Lamp Flux:22066.4x1 lm		
NAME: 2512232波兰U11高棚灯150W-6500K	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:229.7V I:0.6328A P:142.0W PF:0.9772 Lamp Flux:22066.4x1 lm		
NAME: 2512232波兰U11高棚灯150W-6500K	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	.235	.134	.042	.228	.130	.041	.215	.124	.039	.203	.117	.038	.192	.111	.036		
2.0	.228	.125	.038	.222	.122	.038	.210	.117	.036	.200	.112	.035	.190	.108	.034		
3.0	.216	.115	.034	.211	.113	.034	.201	.109	.033	.192	.105	.032	.184	.102	.031		
4.0	.204	.106	.031	.200	.105	.031	.191	.101	.030	.183	.098	.030	.176	.095	.029		
5.0	.193	.098	.028	.189	.097	.028	.181	.094	.028	.174	.092	.027	.167	.089	.027		
6.0	.182	.091	.026	.179	.090	.026	.172	.088	.026	.165	.086	.025	.159	.084	.025		
7.0	.172	.085	.024	.169	.084	.024	.163	.082	.024	.157	.081	.023	.152	.079	.023		
8.0	.163	.080	.022	.160	.079	.022	.155	.077	.022	.150	.076	.022	.145	.074	.022		
9.0	.155	.075	.021	.152	.074	.021	.147	.073	.021	.142	.071	.020	.138	.070	.020		
10.0	.147	.070	.020	.145	.070	.019	.140	.069	.019	.136	.067	.019	.132	.066	.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	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.178	.159	.143	.152	.137	.123	.104	.094	.085	.060	.054	.049	.019	.018	.016	
2.0	.166	.135	.108	.142	.116	.094	.098	.080	.065	.056	.047	.038	.018	.015	.012	
3.0	.157	.116	.084	.134	.100	.073	.092	.070	.051	.053	.041	.030	.017	.013	.010	
4.0	.148	.103	.068	.127	.089	.059	.088	.062	.041	.051	.036	.024	.016	.012	.008	
5.0	.141	.092	.055	.121	.079	.048	.083	.055	.034	.048	.033	.020	.016	.011	.007	
6.0	.134	.083	.046	.115	.072	.040	.080	.050	.028	.046	.030	.017	.015	.010	.006	
7.0	.128	.076	.039	.110	.066	.034	.076	.046	.024	.044	.027	.014	.014	.009	.005	
8.0	.122	.070	.034	.105	.061	.030	.073	.043	.021	.042	.025	.013	.014	.008	.004	
9.0	.117	.065	.030	.101	.056	.026	.070	.040	.019	.041	.023	.011	.013	.008	.004	
10.0	.112	.061	.027	.096	.053	.023	.067	.037	.017	.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:229.7V I:0.6328A P:142.0W PF:0.9772 Lamp Flux:22066.4x1 lm											
NAME: 2512232波兰U11高棚灯150W-6500K						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		21.2	22.5	21.5	22.7	22.9	22.4	23.7	22.7	23.9	24.1
	3H	21.4	22.6	21.7	22.8	23.0	22.7	23.9	23.0	24.1	24.3
	4H	21.4	22.5	21.7	22.8	23.0	22.8	23.9	23.1	24.2	24.4
	6H	21.4	22.5	21.8	22.7	23.0	22.9	24.0	23.2	24.2	24.5
	8H	21.4	22.4	21.8	22.7	23.0	23.0	23.9	23.3	24.2	24.5
	12H	21.4	22.4	21.8	22.6	22.9	23.0	23.9	23.3	24.2	24.5
4H	2H	21.4	22.5	21.7	22.7	23.0	22.4	23.5	22.7	23.7	24.0
	3H	21.6	22.6	22.0	22.9	23.2	22.9	23.8	23.2	24.1	24.4
	4H	21.7	22.6	22.1	22.9	23.2	23.0	23.9	23.4	24.2	24.5
	6H	21.8	22.6	22.2	22.9	23.3	23.2	24.0	23.6	24.3	24.7
	8H	21.8	22.5	22.2	22.9	23.3	23.3	24.0	23.7	24.3	24.7
	12H	21.8	22.5	22.3	22.9	23.3	23.4	24.0	23.8	24.4	24.8
8H	4H	21.8	22.5	22.2	22.8	23.2	23.0	23.7	23.4	24.1	24.5
	6H	21.9	22.5	22.4	22.9	23.3	23.3	23.8	23.7	24.2	24.7
	8H	22.0	22.5	22.4	22.9	23.4	23.4	23.9	23.8	24.3	24.8
	12H	22.0	22.5	22.5	22.9	23.4	23.5	23.9	24.0	24.4	24.9
12H	4H	21.8	22.4	22.2	22.8	23.2	23.0	23.6	23.4	24.0	24.4
	6H	21.9	22.4	22.4	22.8	23.3	23.2	23.7	23.7	24.2	24.6
	8H	22.0	22.4	22.5	22.9	23.4	23.4	23.8	23.9	24.3	24.7
Variations with the observer position at spacings:											
S = 1.0H		+ 1.3 / - 1.7					+ 0.9 / - 1.1				
1.5H		+ 1.0 / - 1.3					+ 0.8 / - 1.0				
2.0H		+ 2.3 / - 2.2					+ 2.5 / - 1.9				

CIE Pub.117 Corrected 22066 lm Total Lamp Luminous Flux. (8log(F/F0) = 10.7)

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:229.7V I:0.6328A P:142.0W PF:0.9772 Lamp Flux:22066.4x1 lm		
NAME: 2512232波兰U11高棚灯150W-6500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:036
MFR.:	SUR.:	PROTECTION ANGLE:

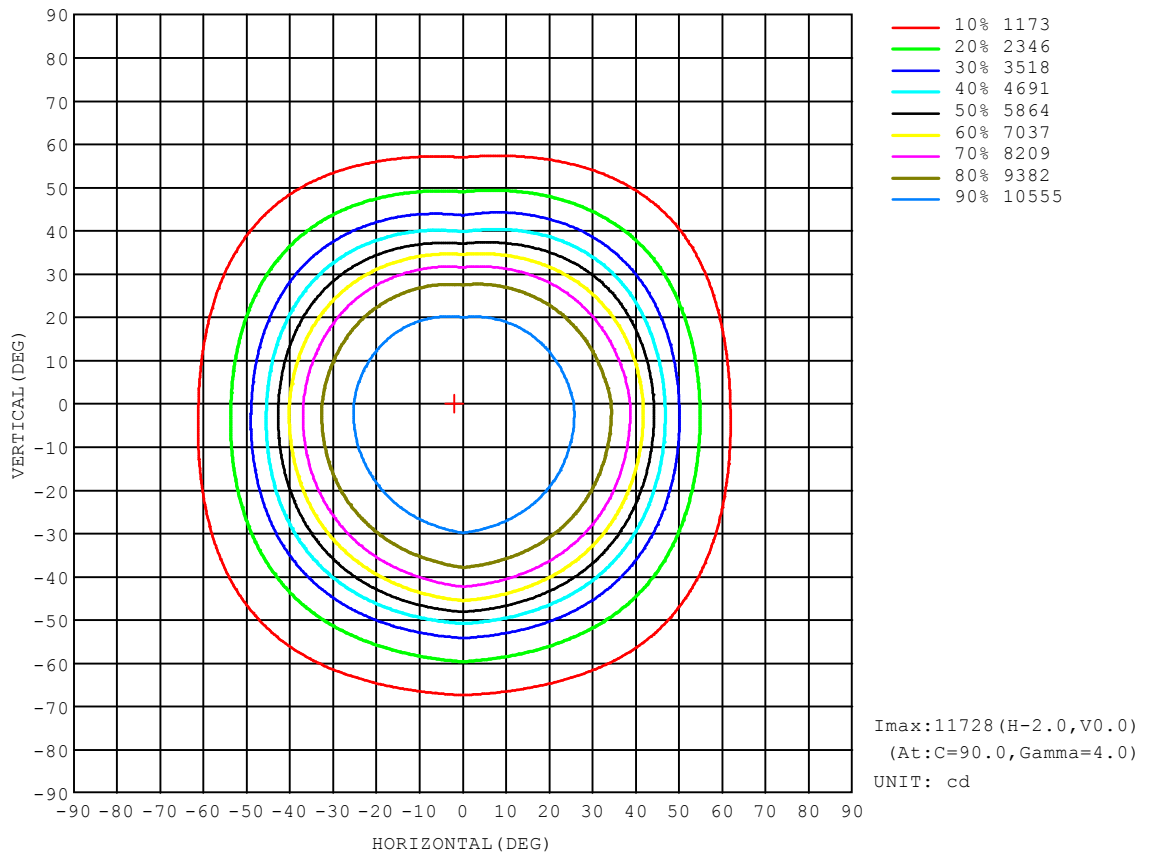
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	70	60	55	69	60	54	68	60	54	49
0.80	79	70	65	79	70	64	77	69	64	58
1.00	87	78	73	86	78	73	84	79	72	66
1.25	93	85	80	92	85	79	89	83	79	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	98	90
5.00	112	108	105	109	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:229.7V I:0.6328A P:142.0W PF:0.9772 Lamp Flux:22066.4x1 lm		
NAME: 2512232波兰U11高棚灯150W-6500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:036
MFR.:	SUR.:	PROTECTION ANGLE:

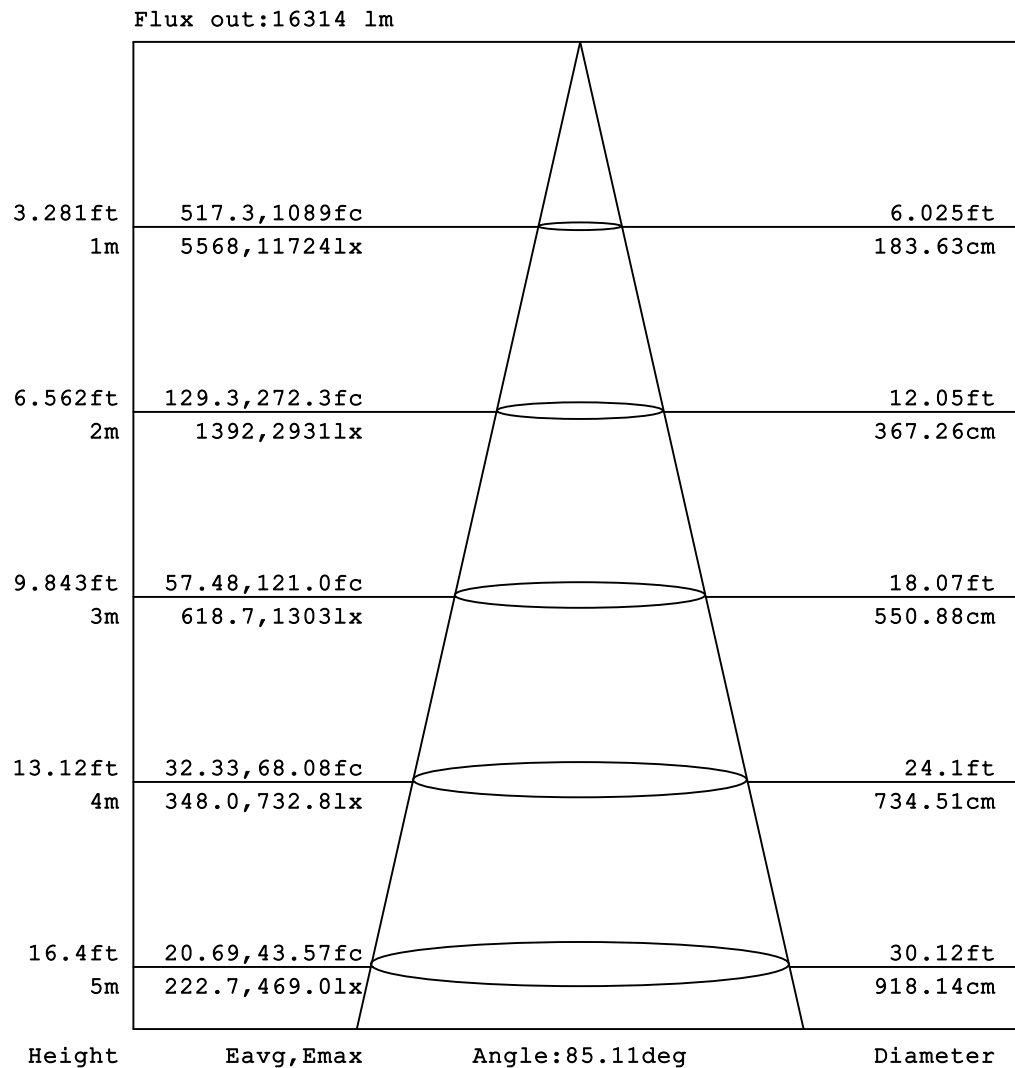


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-04-09

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:229.7V I:0.6328A P:142.0W PF:0.9772 Lamp Flux:22066.4x1 lm		
NAME: 2512232波兰U11高棚灯150W-6500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:036
MFR.:	SUR.:	PROTECTION ANGLE:



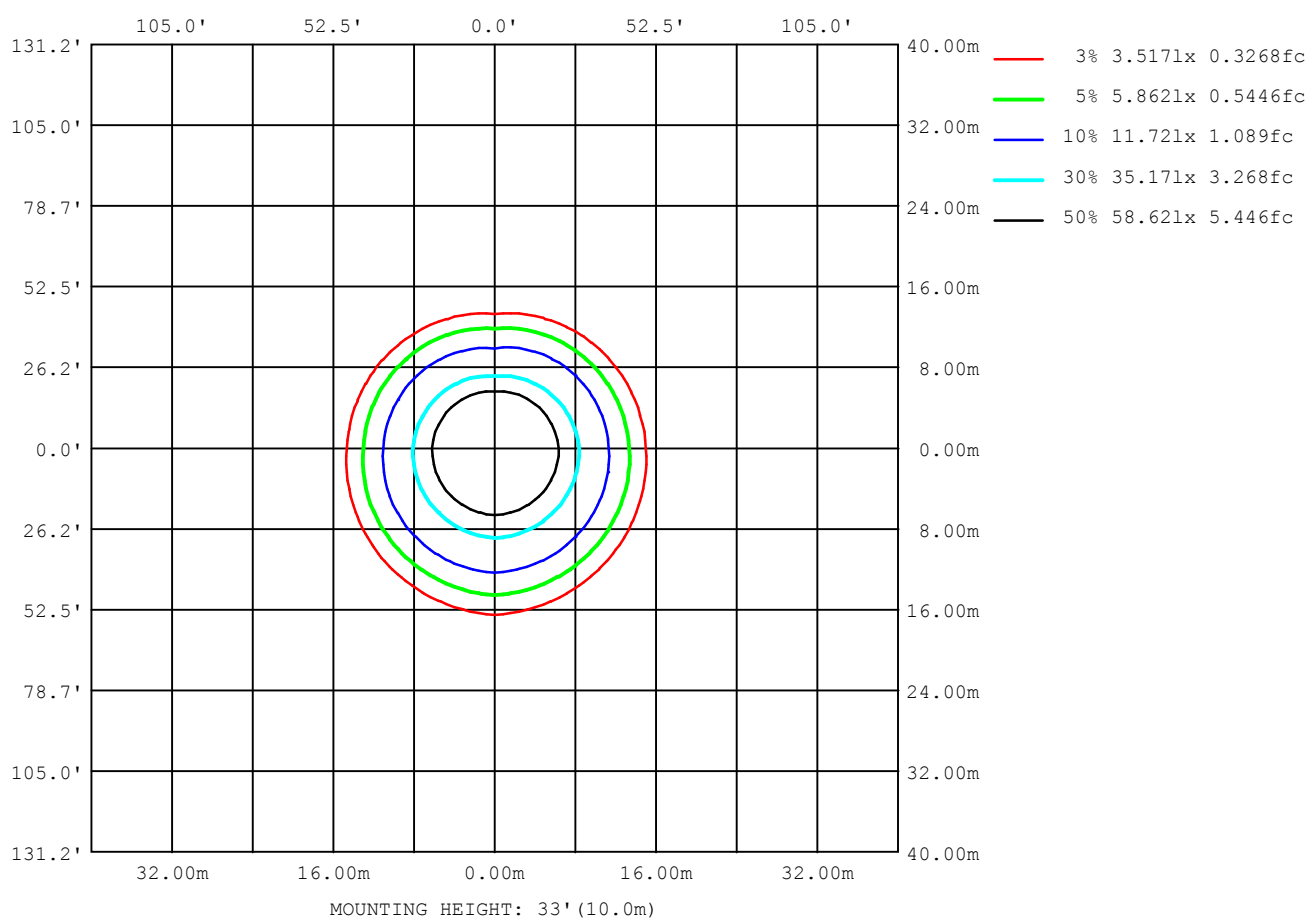
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

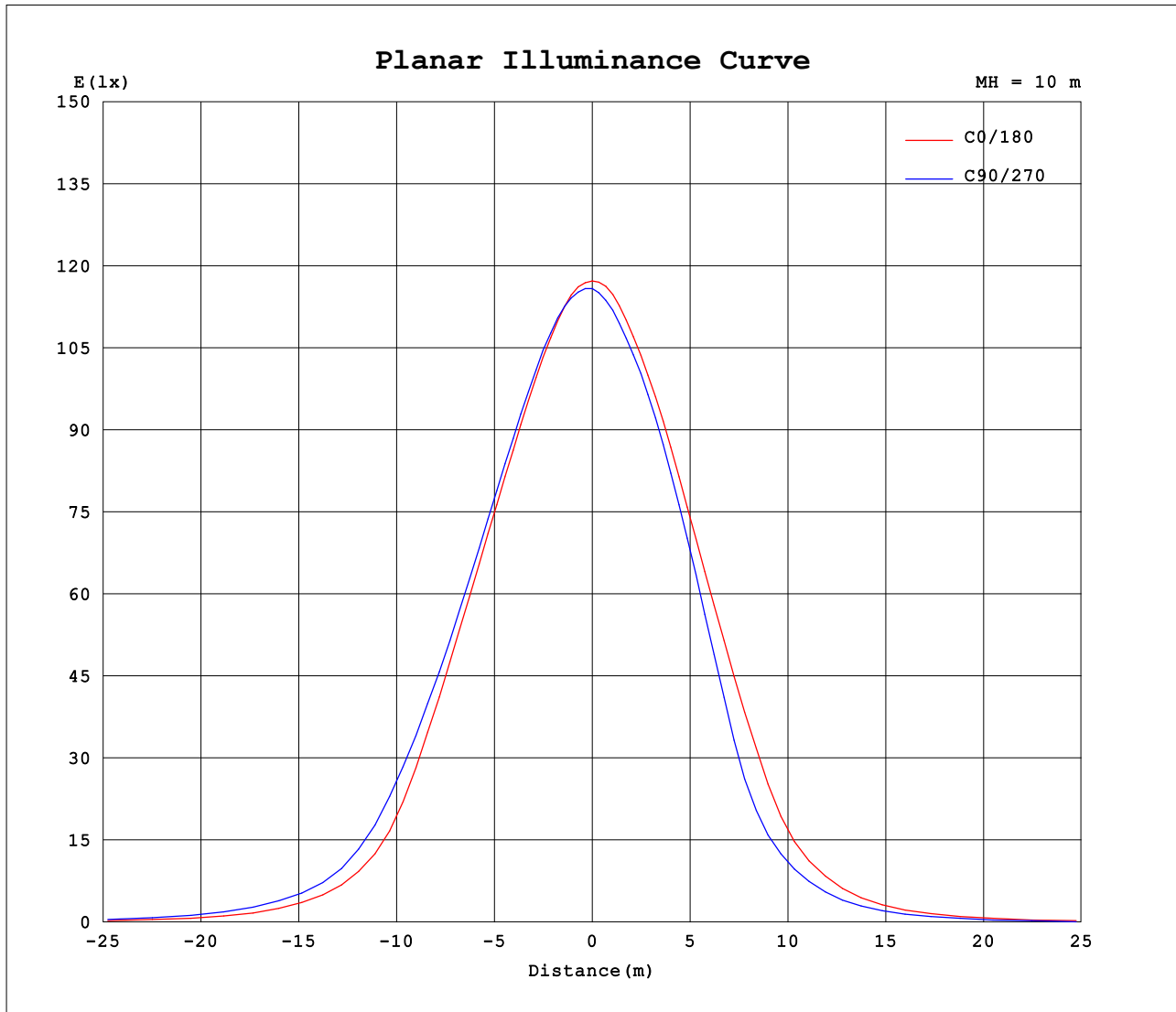
Test:U:229.7V I:0.6328A P:142.0W PF:0.9772 Lamp Flux:22066.4x1 lm		
NAME: 2512232波兰U11高棚灯150W-6500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:036
MFR.:	SUR.:	PROTECTION ANGLE:



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:

Planar Illuminance Curve



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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.7V I:0.6328A P:142.0W PF:0.9772 Lamp Flux:22066.4x1 lm		
NAME: 2512232波兰U11高棚灯150W-6500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:036
MFR.:	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: ×10cd

C (DEG) γ (DEG)	0	90	180	270															
0	1165	1165	1165	1165															
5	1164	1168	1165	1153															
10	1145	1164	1147	1125															
15	1125	1152	1128	1106															
20	1090	1127	1099	1060															
25	1063	1106	1063	1008															
30	1003	1061	983	874															
35	939	1012	900	727															
40	770	896	704	459															
45	590	772	520	340															
50	350	508	317	214															
55	250	361	225	149															
60	141	231	128	89.5															
65	94.3	160	90.8	60.6															
70	57.1	93.9	52.9	29.0															
75	38.8	66.3	34.9	16.2															
80	20.0	37.2	17.5	7.75															
85	11.9	24.2	9.21	1.22															
90	1.88	11.4	0.16	0.11															
95	0.47	4.63	0.11	0.11															
100	0.25	0.18	0.13	0.15															
105	0.25	0.16	0.15	0.20															
110	0.33	0.24	0.21	0.29															
115	0.46	0.33	0.28	0.38															
120	0.74	0.53	0.43	0.57															
125	1.06	0.72	0.58	0.75															
130	1.48	1.11	0.87	1.07															
135	1.72	1.37	1.10	1.30															
140	2.06	1.75	1.45	1.63															
145	2.25	1.99	1.69	1.85															
150	2.51	2.29	2.04	2.18															
155	2.68	2.46	2.28	2.39															
160	2.85	2.67	2.58	2.62															
165	2.94	2.80	2.73	2.74															
170	2.98	2.92	2.88	2.85															
175	2.99	2.96	2.94	2.90															
180	3.01	2.97	3.01	2.95															

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: