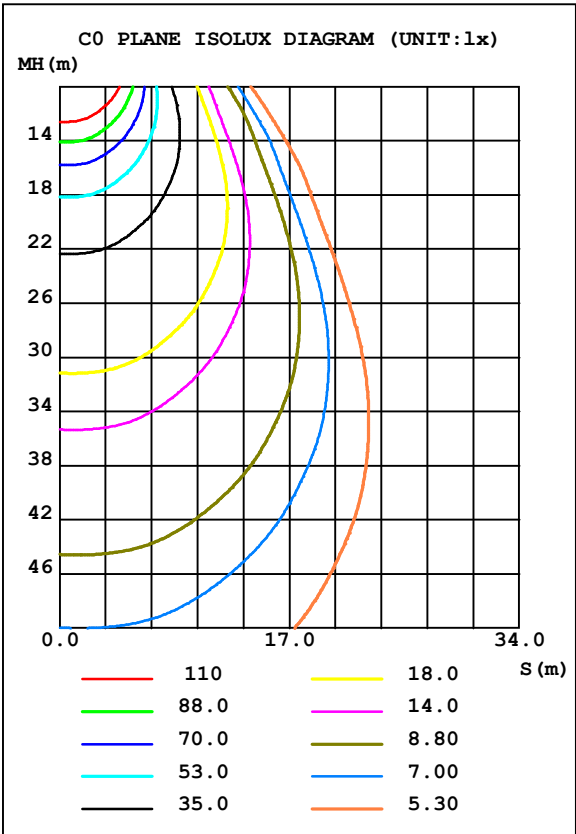
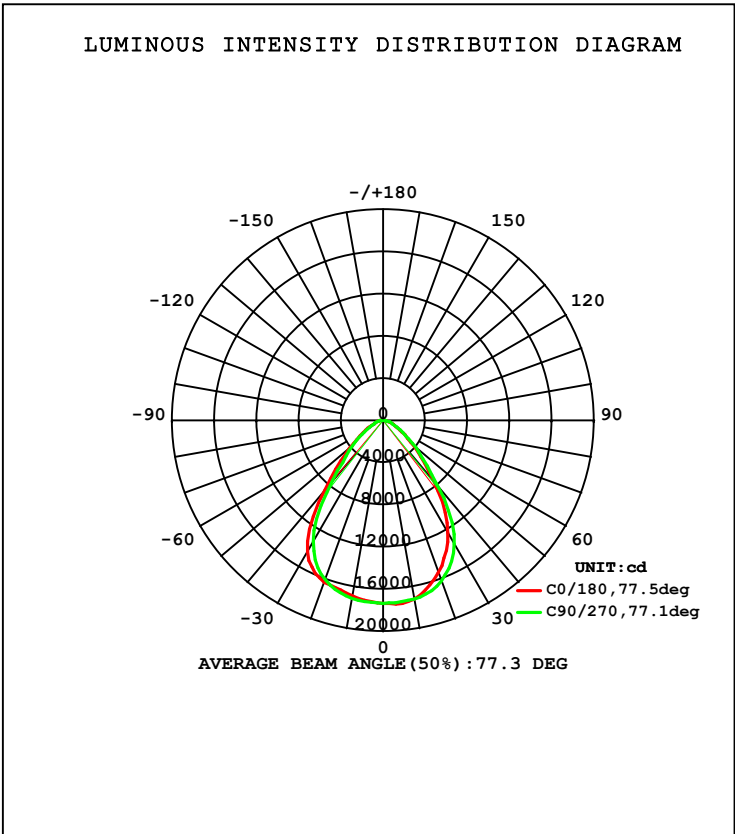


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:229.7V I:0.8466A P:190.3W PF:0.9787 Lamp Flux:28054.9x1 lm		
NAME: 2512232波兰U11高棚灯200W-6500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:036
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
2512232波兰U11高棚灯200W-6500K		Eff: 152.56 lm/W			
		Imax(cd)	17441	S/MH(C0/180)	1.09
NOMINAL POWER(W)	194	LOR(%)	103.5	S/MH(C90/270)	1.12
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	29031	η UP,DN(C0-180)	0.2,50.9
NOMINAL FLUX(lm)	28054.9	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,52.2
LAMPS INSIDE	1	η up(%)	0.3	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	229.7	η down(%)	103.2	CIBSE SHR MAX	1.15



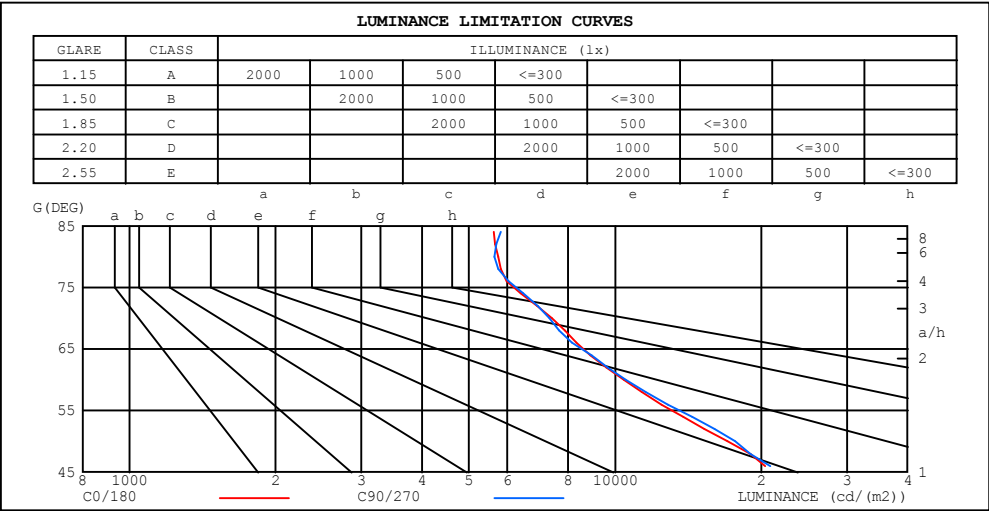
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-04-08

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	1721	1721	1689	1714					0~ 10	1646	1646	5.67,5.87
20	1541	1620	1632	1610					10~ 20	4696	6343	21.8,22.6
30	1232	1355	1438	1327					20~ 30	6844	13186	45.4,47
40	746.8	810.3	863.5	749.2					30~ 40	6745	19931	68.7,71
50	391.4	411.7	421.7	382.6					40~ 50	4376	24307	83.7,86.6
60	186.1	190.8	192.6	175.6					50~ 60	2515	26822	92.4,95.6
70	90.54	90.78	89.23	84.03					60~ 70	1299	28121	96.9,100
80	35.61	35.57	34.59	33.16					70~ 80	615.8	28737	99,102
90	3.955	5.688	3.720	4.141					80~ 90	202.5	28939	99.7,103
100	0.2181	0.2265	0.1857	0.1768					90~100	8.740	28948	99.7,103
110	0.4664	0.4530	0.3205	0.3039					100~110	2.976	28951	99.7,103
120	0.9580	0.8824	0.5803	0.5841					110~120	5.430	28956	99.7,103
130	1.865	1.715	1.075	1.113					120~130	9.519	28966	99.8,103
140	2.870	2.724	1.848	1.944					130~140	14.50	28980	99.8,103
150	3.702	3.638	2.777	2.873					140~150	17.52	28998	99.9,103
160	4.329	4.339	3.674	3.788					150~160	16.78	29015	99.9,103
170	4.674	4.706	4.273	4.337					160~170	12.08	29027	100,103
180	4.584	4.666	4.630	4.633					170~180	4.357	29031	100,103
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		



LUMINANCE cd/(m2)		
G(°)	C0/180	C90/270
85	6746	6964
80	5741	5646
75	6803	6893
70	7411	7315
65	9221	9267
60	10422	10517
55	14154	14750
50	17046	17653
45	22468	23484

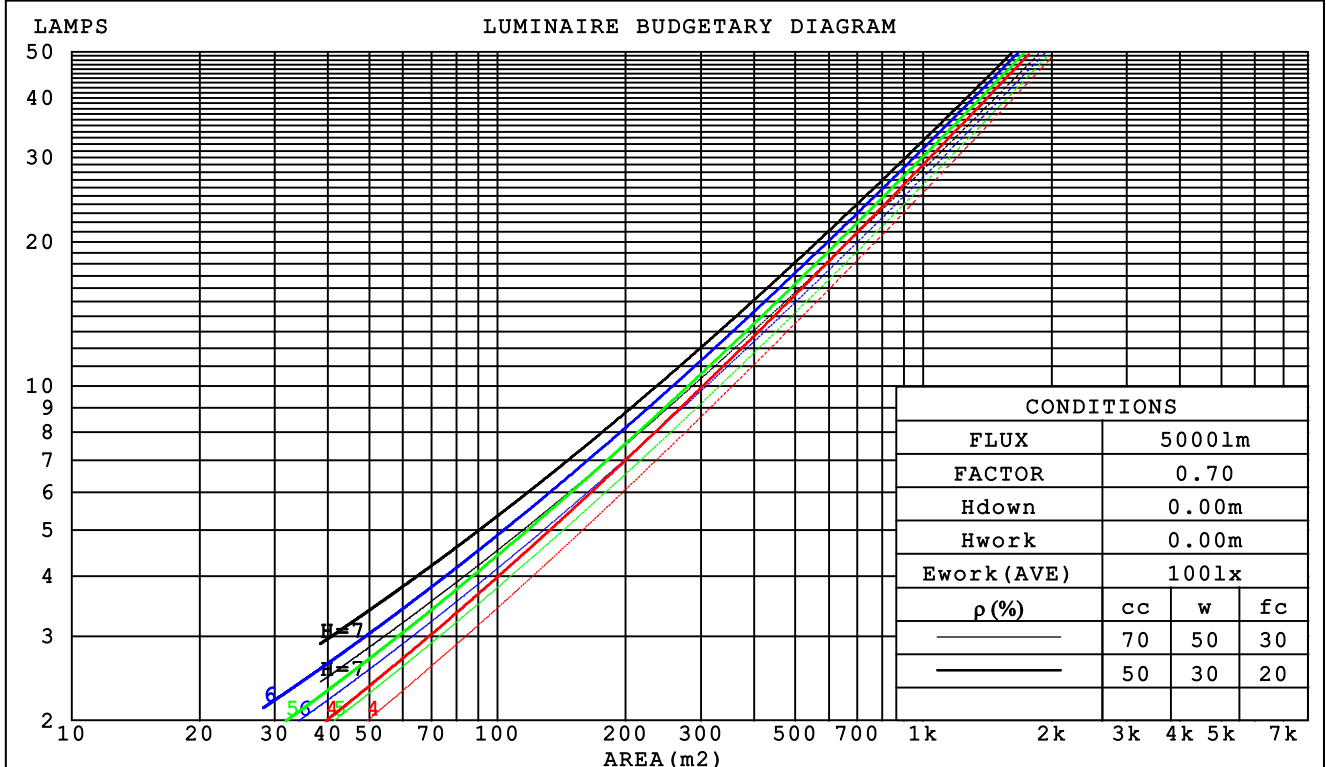
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-04-08

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:0.8466A P:190.3W PF:0.9787 Lamp Flux:28054.9x1 lm		
NAME: 2512232波兰U11高棚灯200W-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:2026-04-08

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:0.8466A P:190.3W PF:0.9787 Lamp Flux:28054.9x1 lm		
NAME: 2512232波兰U11高棚灯200W-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	.243	.138	.044	.235	.134	.043	.222	.127	.041	.210	.121	.039	.198	.115	.037															
2.0	.233	.128	.039	.227	.125	.038	.215	.120	.037	.204	.115	.036	.194	.110	.035															
3.0	.220	.117	.035	.215	.115	.035	.205	.111	.034	.195	.107	.033	.187	.103	.032															
4.0	.208	.108	.032	.203	.106	.031	.194	.103	.031	.186	.100	.030	.178	.097	.029															
5.0	.196	.100	.029	.191	.098	.029	.184	.096	.028	.176	.093	.028	.169	.090	.027															
6.0	.185	.093	.026	.181	.091	.026	.174	.089	.026	.167	.087	.026	.161	.085	.025															
7.0	.174	.086	.024	.171	.085	.024	.165	.083	.024	.159	.081	.024	.153	.080	.023															
8.0	.165	.081	.023	.162	.080	.023	.156	.078	.022	.151	.077	.022	.146	.075	.022															
9.0	.157	.076	.021	.154	.075	.021	.149	.074	.021	.144	.072	.021	.140	.071	.020															
10.0	.149	.071	.020	.146	.071	.020	.142	.069	.020	.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	.200	.200	.200	.171	.171	.171	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.184	.165	.148	.157	.141	.127	.108	.097	.088	.062	.056	.051	.020	.018	.017	
2.0	.172	.139	.112	.147	.120	.097	.101	.083	.068	.058	.048	.040	.019	.016	.013	
3.0	.161	.120	.088	.138	.104	.076	.095	.072	.053	.055	.042	.031	.018	.014	.010	
4.0	.152	.106	.070	.131	.092	.061	.090	.064	.043	.052	.037	.025	.017	.012	.008	
5.0	.145	.095	.058	.124	.082	.050	.086	.057	.035	.050	.034	.021	.016	.011	.007	
6.0	.137	.086	.048	.118	.074	.042	.081	.052	.030	.047	.031	.018	.015	.010	.006	
7.0	.131	.078	.041	.113	.068	.036	.078	.047	.025	.045	.028	.015	.015	.009	.005	
8.0	.125	.072	.036	.107	.062	.031	.074	.044	.022	.043	.026	.013	.014	.008	.004	
9.0	.119	.067	.031	.103	.058	.027	.071	.041	.019	.041	.024	.012	.013	.008	.004	
10.0	.114	.062	.028	.098	.054	.024	.068	.038	.017	.040	.023	.010	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-04-08

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:0.8466A P:190.3W PF:0.9787 Lamp Flux:28054.9x1 lm											
NAME: 2512232波兰U11高棚灯200W-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		20.6	21.9	20.9	22.0	22.2	20.8	22.0	21.0	22.2	22.4
	3H	21.1	22.2	21.4	22.4	22.7	21.2	22.3	21.5	22.5	22.8
	4H	21.2	22.3	21.5	22.5	22.8	21.3	22.4	21.6	22.7	22.9
	6H	21.3	22.4	21.7	22.6	22.9	21.5	22.5	21.8	22.7	23.0
	8H	21.4	22.4	21.7	22.6	22.9	21.5	22.5	21.8	22.7	23.0
	12H	21.4	22.3	21.8	22.6	22.9	21.5	22.4	21.9	22.7	23.0
4H	2H	20.8	21.8	21.1	22.1	22.3	20.9	22.0	21.2	22.2	22.5
	3H	21.4	22.3	21.7	22.6	22.9	21.5	22.4	21.8	22.7	23.0
	4H	21.6	22.5	22.0	22.8	23.1	21.7	22.6	22.1	22.9	23.2
	6H	21.8	22.6	22.2	22.9	23.3	21.9	22.6	22.3	23.0	23.4
	8H	21.9	22.6	22.3	23.0	23.3	22.0	22.7	22.4	23.0	23.4
	12H	22.0	22.6	22.4	23.0	23.4	22.1	22.7	22.5	23.1	23.5
8H	4H	21.7	22.4	22.1	22.7	23.1	21.8	22.4	22.2	22.8	23.2
	6H	22.0	22.5	22.4	22.9	23.4	22.0	22.6	22.5	23.0	23.4
	8H	22.1	22.6	22.6	23.1	23.5	22.2	22.7	22.7	23.1	23.6
	12H	22.3	22.7	22.7	23.1	23.6	22.3	22.8	22.8	23.2	23.7
12H	4H	21.6	22.3	22.1	22.7	23.1	21.7	22.4	22.2	22.7	23.2
	6H	22.0	22.5	22.4	22.9	23.4	22.1	22.6	22.5	23.0	23.4
	8H	22.2	22.6	22.6	23.0	23.5	22.2	22.7	22.7	23.1	23.6
Variations with the observer position at spacings:											
S = 1.0H		+ 0.8 / - 1.0					+ 0.8 / - 1.1				
1.5H		+ 0.8 / - 0.6					+ 1.0 / - 0.7				
2.0H		+ 1.6 / - 1.1					+ 1.6 / - 1.2				

CIE Pub.117 Corrected 28055 lm Total Lamp Luminous Flux. (8log(F/F0) = 11.6)

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-04-08

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:0.8466A P:190.3W PF:0.9787 Lamp Flux:28054.9x1 lm		
NAME: 2512232波兰U11高棚灯200W-6500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:036
MFR.:	SUR.:	PROTECTION ANGLE:

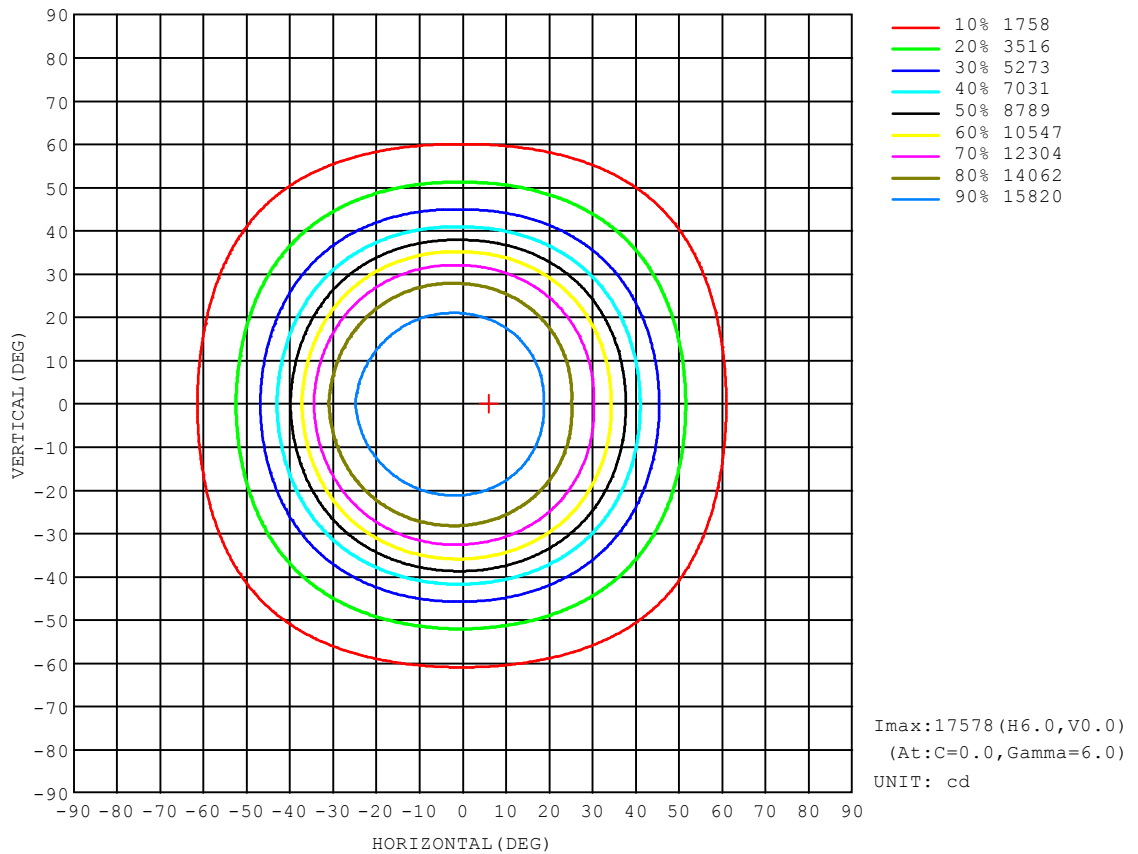
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	74	65	59	74	65	59	73	64	59	54
0.80	84	75	69	83	74	69	81	74	69	63
1.00	91	83	77	90	82	77	88	83	76	71
1.25	97	89	84	96	89	83	93	87	83	77
1.50	101	94	89	100	93	88	97	91	87	81
2.00	106	100	95	104	99	94	101	96	93	86
2.50	109	103	99	107	102	98	103	99	96	88
3.00	111	106	102	109	105	101	105	102	99	91
4.00	114	110	107	112	108	105	108	105	102	94
5.00	116	112	109	114	110	108	109	107	104	96
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:2026-04-08

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:0.8466A P:190.3W PF:0.9787 Lamp Flux:28054.9x1 lm		
NAME: 2512232波兰U11高棚灯200W-6500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:036
MFR.:	SUR.:	PROTECTION ANGLE:

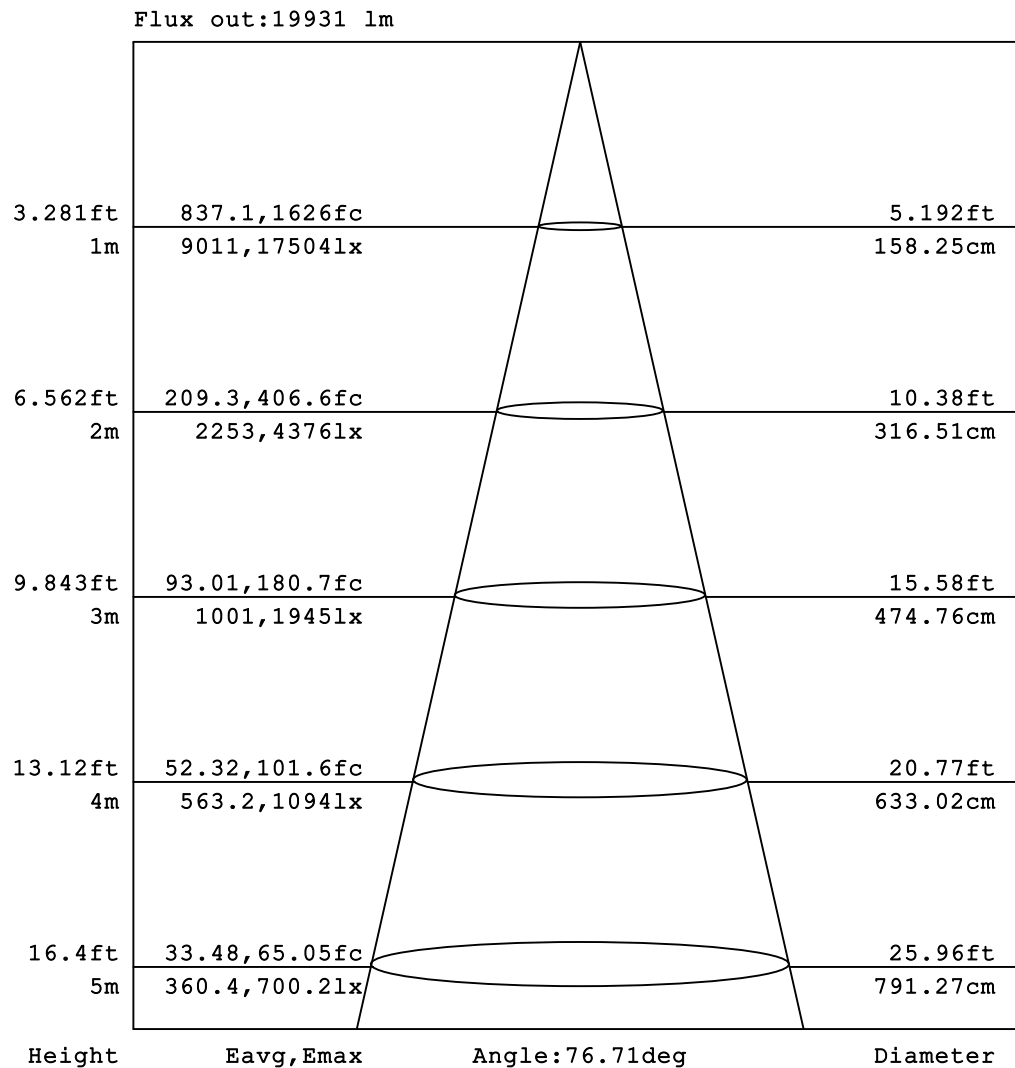


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-04-08

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:0.8466A P:190.3W PF:0.9787 Lamp Flux:28054.9x1 lm		
NAME: 2512232波兰U11高棚灯200W-6500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:036
MFR.:	SUR.:	PROTECTION ANGLE:



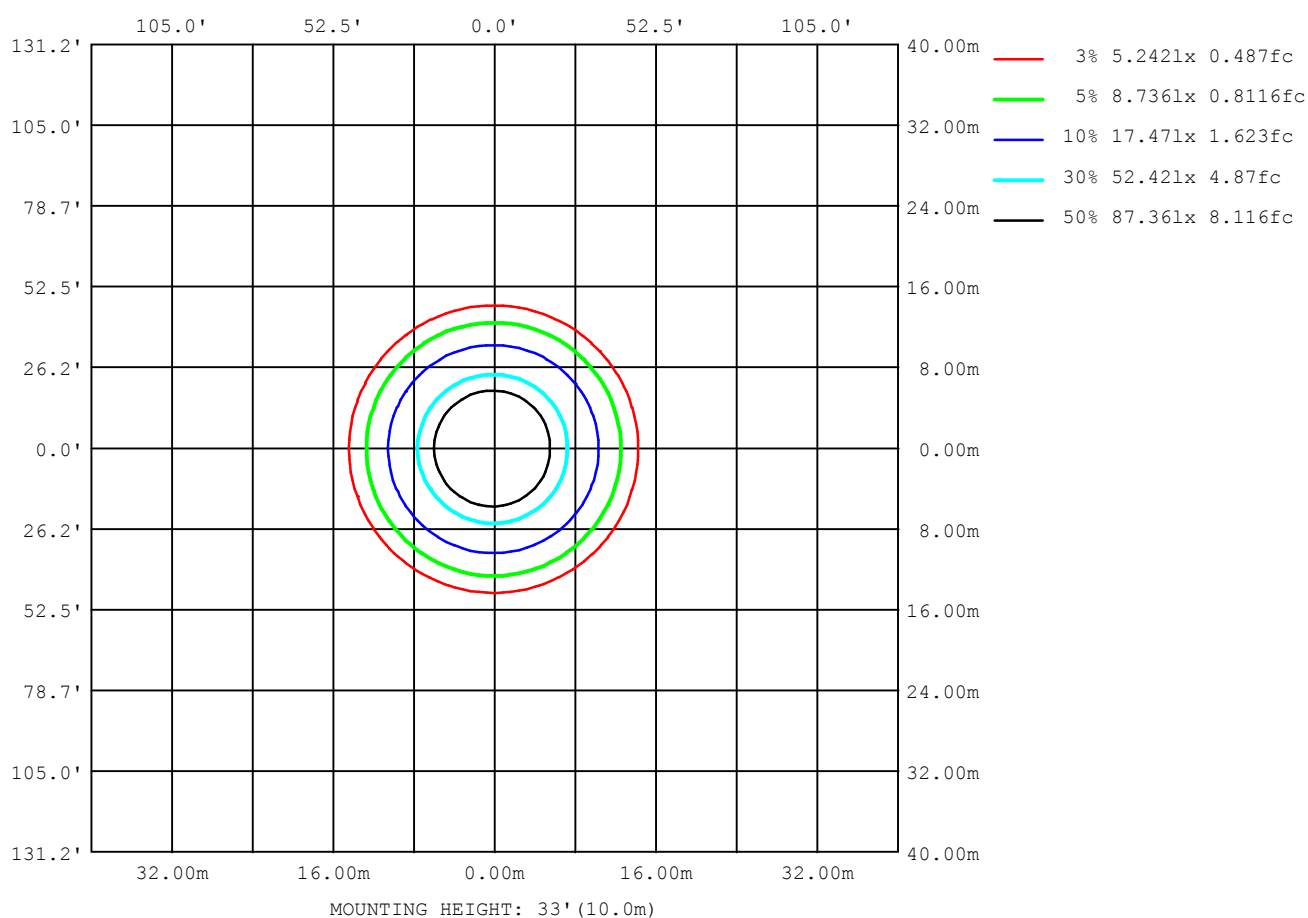
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-04-08

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

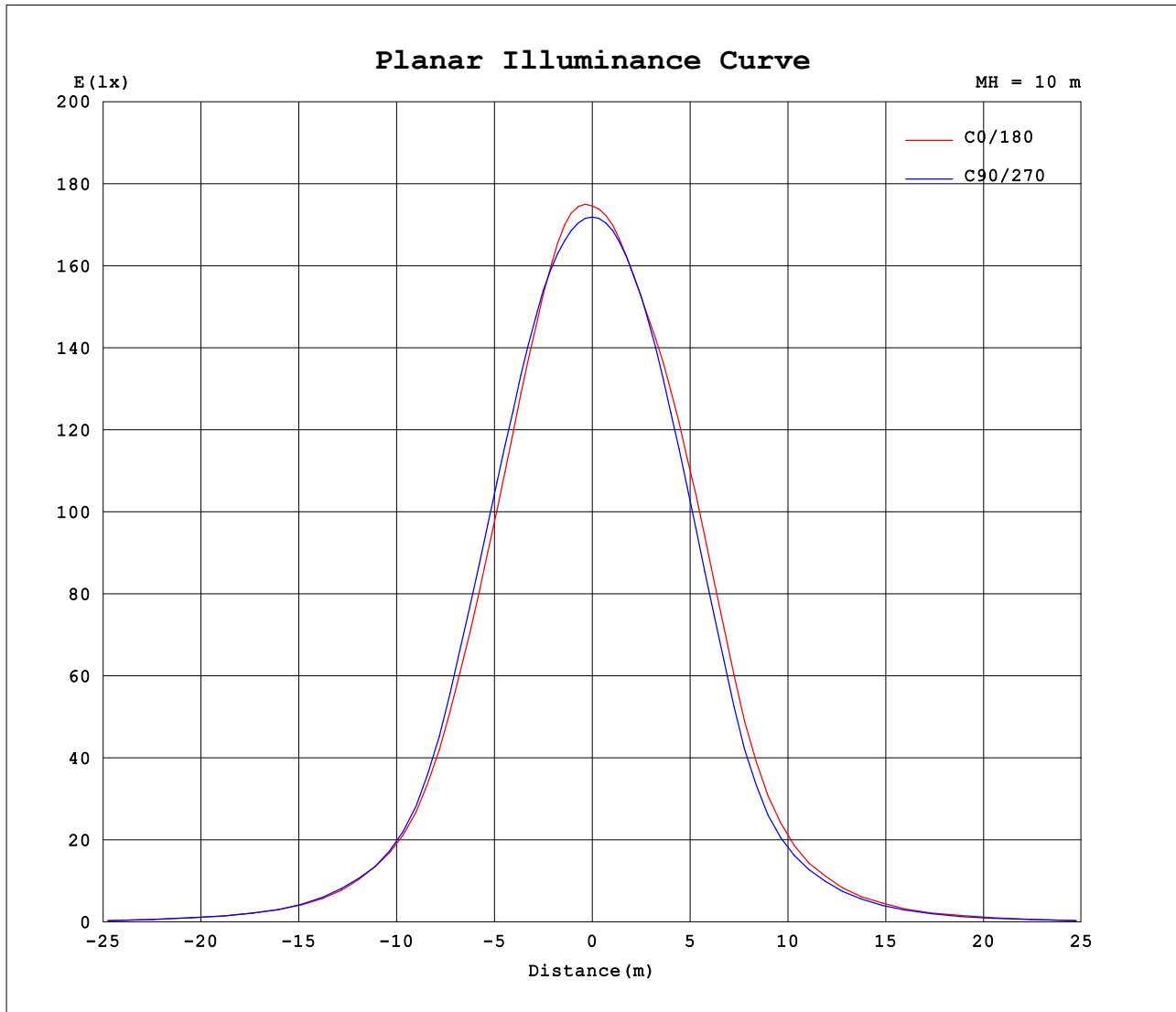
Test:U:229.7V I:0.8466A P:190.3W PF:0.9787 Lamp Flux:28054.9x1 lm		
NAME: 2512232波兰U11高棚灯200W-6500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:036
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
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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:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-04-08

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:0.8466A P:190.3W PF:0.9787 Lamp Flux:28054.9x1 lm		
NAME: 2512232波兰U11高棚灯200W-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	1734	1734	1734	1734															
5	1744	1732	1723	1731															
10	1721	1721	1689	1714															
15	1661	1699	1659	1686															
20	1541	1620	1632	1610															
25	1429	1538	1588	1527															
30	1232	1355	1438	1327															
35	1060	1175	1250	1128															
40	747	810	863	749															
45	568	603	647	558															
50	391	412	422	383															
55	290	307	311	287															
60	186	191	193	176															
65	139	142	144	130															
70	90.5	90.8	89.2	84.0															
75	62.9	64.7	63.6	59.6															
80	35.6	35.6	34.6	33.2															
85	21.0	22.0	21.2	20.3															
90	3.96	5.69	3.72	4.14															
95	0.19	0.15	0.14	0.15															
100	0.22	0.23	0.19	0.18															
105	0.29	0.29	0.23	0.21															
110	0.47	0.45	0.32	0.30															
115	0.62	0.60	0.41	0.39															
120	0.96	0.88	0.58	0.58															
125	1.27	1.16	0.75	0.75															
130	1.86	1.71	1.08	1.11															
135	2.28	2.12	1.35	1.41															
140	2.87	2.72	1.85	1.94															
145	3.23	3.11	2.22	2.33															
150	3.70	3.64	2.78	2.87															
155	3.99	3.94	3.13	3.23															
160	4.33	4.34	3.67	3.79															
165	4.52	4.54	3.91	4.01															
170	4.67	4.71	4.27	4.34															
175	4.68	4.71	4.47	4.49															
180	4.58	4.67	4.63	4.63															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-04-08

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: