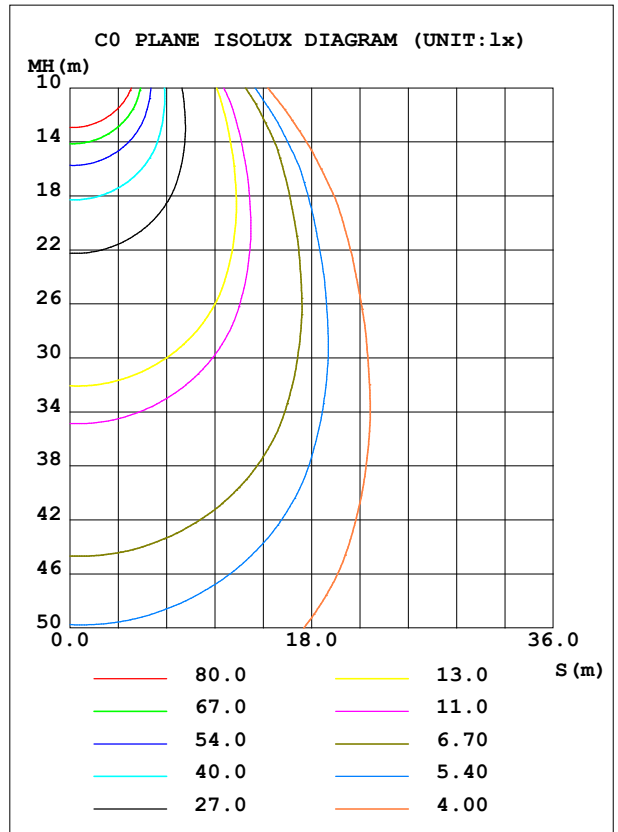
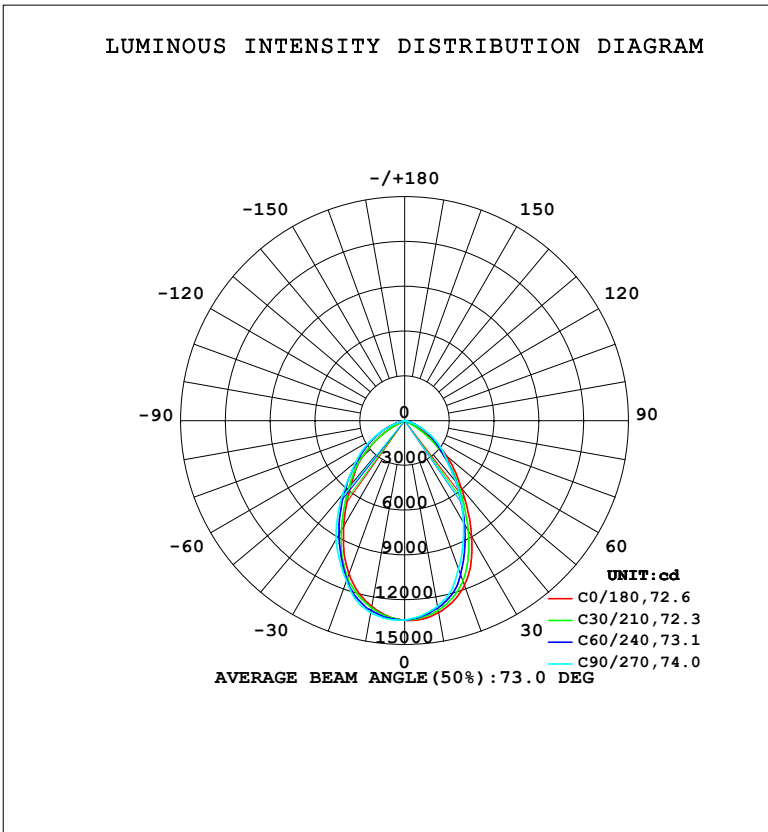


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:218.80V I:0.6790A P:143.30W PF:0.9640 Freq:50.00Hz Lamp Flux:20767.8x1 lm		
NAME: Uranus High Light	TYPE: GK-TWX-0150-N01S	Shielding Angle:
SPEC.: GK-TWX-0150-N01S		
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	GK-TWX-0150-N01S	Imax (cd)	13390	S/MH (C0/180)	0.99
NOMINAL POWER (W)	148	LOR (%)	100.0	S/MH (C90/270)	1.06
RATED VOLTAGE (V)	218	TOTAL FLUX (lm)	20768	η UP, DN (C0-180)	0.0,47.3
NOMINAL FLUX (lm)	20767.8	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0,52.7
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	218.7	η down (%)	100.0	CIBSE SHR MAX	1.10



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:杨守真
Test Date:2025-11-26

V(B) Range:-75 - 75DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:9.078m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

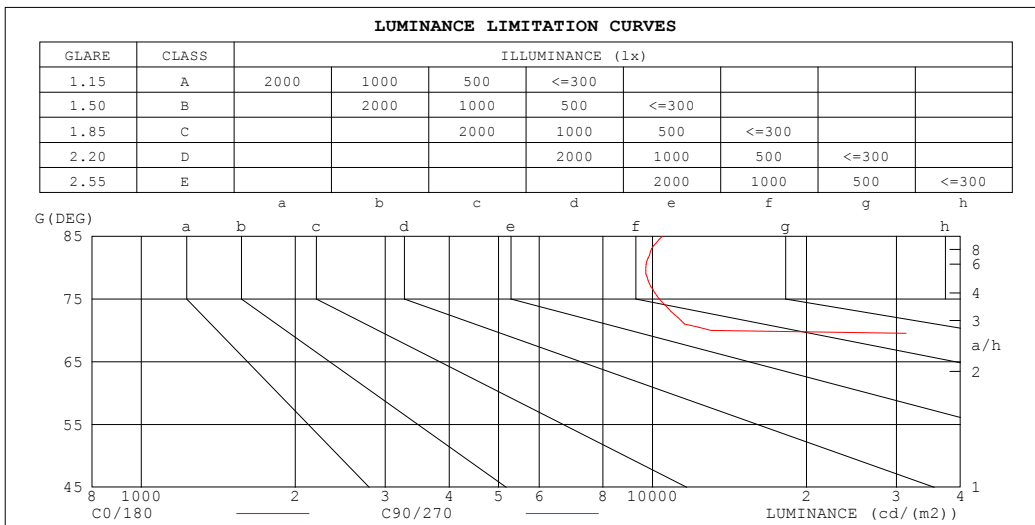
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1306	1282	1265	1253	1264	1283	1307	1312	0- 10	1249	1249	6.01,6.01
20	1173	1125	1059	1067	1092	1131	1143	1191	10- 20	3416	4665	22.5,22.5
30	897.6	822.4	789.1	779.5	817.7	861.6	920.4	917.9	20- 30	4545	9210	44.3,44.3
40	594.1	538.2	537.9	530.0	558.7	605.8	648.1	627.2	30- 40	4443	13653	65.7,65.7
50	361.1	311.9	343.7	308.3	357.3	376.7	426.8	385.3	40- 50	3581	17234	83,83
60	127.8	145.0	206.6	144.5	134.0	192.1	256.6	199.4	50- 60	2341	19575	94.3,94.3
70	1.337	54.33	69.51	54.95	1.883	77.06	86.38	79.95	60- 70	1013	20588	99.1,99.1
80	0.5052	0.0041	0	0.0041	0.5519	0.0058	0	0.0059	70- 80	178.5	20766	100,100
90	0.0383	0	0	0	0.1403	0	0	0	80- 90	1.432	20768	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:杨守真
Test Date:2025-11-26

V(B) Range:-75 - 75DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:9.078m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:218.80V I:0.6790A P:143.30W PF:0.9640 Freq:50.00Hz Lamp Flux:20767.8x1 lm		
NAME: Uranus High Light	TYPE: GK-TWX-0150-N01S	Shielding Angle:
SPEC.: GK-TWX-0150-N01S		
MFR.:		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	10453	0
80	9697	0
75	10305	94539
70	13026	677492
65	269699	1088901
60	852080	1377326
55	1419224	1598979
50	1872341	1782253
45	2242693	1970163

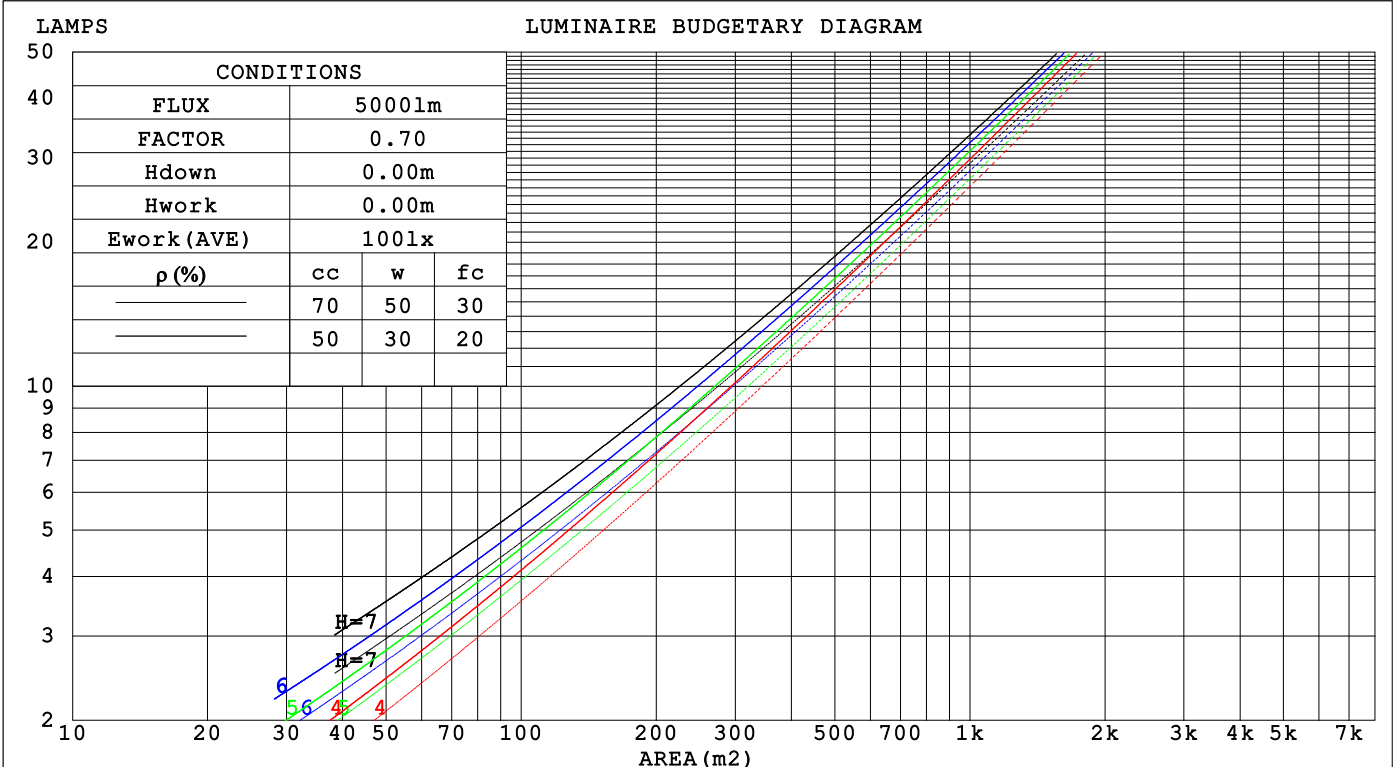
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:杨守真
Test Date:2025-11-26

V(B) Range:-75 - 75DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:9.078m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:218.80V I:0.6790A P:143.30W PF:0.9640 Freq:50.00Hz		
Lamp Flux:20767.8x1 lm		
NAME: Uranus High Light	TYPE: GK-TWX-0150-N01S	Shielding Angle:
SPEC.: GK-TWX-0150-N01S		
MFR.:		

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	1.19	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	1.00
1.0	1.08	1.05	1.02	1.06	1.03	1.01	1.02	.90	.98	.98	.96	.95	.95	.93	.92	.90
2.0	.98	.93	.88	.96	.91	.87	.93	.89	.85	.90	.86	.83	.87	.84	.82	.80
3.0	.88	.82	.77	.87	.81	.76	.84	.79	.75	.82	.77	.74	.79	.76	.73	.71
4.0	.80	.73	.68	.79	.72	.67	.77	.71	.67	.75	.70	.66	.73	.68	.65	.63
5.0	.73	.66	.60	.72	.65	.60	.70	.64	.59	.68	.63	.59	.67	.62	.58	.56
6.0	.67	.60	.54	.66	.59	.54	.65	.58	.54	.63	.57	.53	.62	.57	.53	.51
7.0	.62	.54	.49	.61	.54	.49	.60	.53	.49	.58	.53	.48	.57	.52	.48	.46
8.0	.57	.50	.45	.56	.49	.45	.55	.49	.44	.54	.48	.44	.53	.48	.44	.42
9.0	.53	.46	.41	.52	.46	.41	.51	.45	.41	.50	.45	.40	.49	.44	.40	.39
10.0	.49	.42	.38	.49	.42	.38	.48	.42	.37	.47	.41	.37	.46	.41	.37	.36



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:杨守真
Test Date:2025-11-26

V(B) Range:-75 - 75DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:9.078m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:218.80V I:0.6790A P:143.30W PF:0.9640 Freq:50.00Hz		
Lamp Flux:20767.8x1 lm		
NAME: Uranus High Light	TYPE: GK-TWX-0150-N01S	Shielding Angle:
SPEC.: GK-TWX-0150-N01S		
MFR.:		

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	.225	.128	.041	.219	.125	.040	.206	.118	.038	.194	.112	.036	.183	.106	.034	
2.0	.221	.121	.037	.215	.118	.037	.204	.113	.035	.194	.109	.034	.184	.104	.033	
3.0	.211	.113	.034	.206	.110	.033	.197	.107	.032	.188	.103	.032	.179	.099	.031	
4.0	.201	.104	.031	.196	.103	.030	.188	.099	.030	.180	.097	.029	.172	.094	.029	
5.0	.190	.097	.028	.186	.095	.028	.178	.093	.027	.171	.090	.027	.165	.088	.026	
6.0	.179	.090	.026	.176	.089	.026	.169	.087	.025	.163	.085	.025	.157	.083	.025	
7.0	.170	.084	.024	.166	.083	.024	.160	.081	.023	.155	.079	.023	.150	.078	.023	
8.0	.160	.078	.022	.158	.078	.022	.152	.076	.022	.147	.075	.022	.143	.073	.021	
9.0	.152	.074	.021	.150	.073	.020	.145	.072	.020	.140	.070	.020	.136	.069	.020	
10.0	.145	.069	.019	.142	.069	.019	.138	.068	.019	.134	.066	.019	.130	.065	.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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.174	.157	.141	.149	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.163	.132	.107	.139	.114	.092	.096	.079	.064	.055	.046	.038	.018	.015	.012	
3.0	.153	.114	.083	.131	.098	.072	.090	.068	.050	.052	.040	.030	.017	.013	.010	
4.0	.145	.100	.066	.124	.086	.057	.085	.060	.040	.049	.035	.024	.016	.011	.008	
5.0	.137	.089	.053	.118	.077	.046	.081	.054	.033	.047	.032	.019	.015	.010	.006	
6.0	.131	.080	.044	.112	.069	.038	.077	.049	.027	.045	.029	.016	.014	.009	.005	
7.0	.124	.073	.037	.107	.063	.032	.074	.044	.023	.043	.026	.014	.014	.009	.005	
8.0	.119	.067	.032	.102	.058	.028	.071	.041	.020	.041	.024	.012	.013	.008	.004	
9.0	.113	.062	.028	.098	.054	.024	.068	.038	.017	.039	.022	.010	.013	.007	.003	
10.0	.108	.058	.024	.093	.050	.021	.065	.035	.015	.038	.021	.009	.012	.007	.003	

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:杨守真
Test Date:2025-11-26

V(B) Range:-75 - 75DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:9.078m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:218.80V I:0.6790A P:143.30W PF:0.9640 Freq:50.00Hz		
Lamp Flux:20767.8x1 lm		
NAME: Uranus High Light	TYPE: GK-TWX-0150-N01S	Shielding Angle:
SPEC.: GK-TWX-0150-N01S		
MFR.:		

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	25.7	27.0	26.0	27.2	27.4	26.8	28.1	27.1	28.3	28.5
3H	25.6	26.7	25.8	26.9	27.1	27.4	28.5	27.6	28.7	28.9
4H	25.5	26.6	25.8	26.8	27.0	27.3	28.4	27.6	28.6	28.9
6H	25.4	26.4	25.7	26.6	26.9	27.2	28.2	27.5	28.5	28.7
8H	25.3	26.3	25.7	26.6	26.8	27.2	28.1	27.5	28.4	28.7
12H	25.3	26.2	25.6	26.5	26.8	27.1	28.0	27.5	28.3	28.6
4H 2H	25.9	26.9	26.2	27.2	27.4	26.9	28.0	27.2	28.2	28.5
3H	25.7	26.6	26.0	26.9	27.2	27.5	28.5	27.9	28.8	29.0
4H	25.6	26.5	26.0	26.8	27.1	27.5	28.3	27.9	28.7	29.0
6H	25.5	26.3	25.9	26.6	27.0	27.4	28.1	27.8	28.5	28.8
8H	25.5	26.2	25.9	26.5	26.9	27.4	28.0	27.8	28.4	28.8
12H	25.4	26.1	25.8	26.4	26.8	27.3	27.9	27.7	28.3	28.7
8H 4H	25.6	26.3	26.0	26.6	27.0	27.4	28.1	27.8	28.4	28.8
6H	25.5	26.0	25.9	26.4	26.9	27.3	27.9	27.7	28.3	28.7
8H	25.4	25.9	25.9	26.3	26.8	27.3	27.7	27.7	28.2	28.6
12H	25.4	25.8	25.9	26.3	26.7	27.2	27.6	27.7	28.1	28.5
12H 4H	25.5	26.1	25.9	26.5	26.9	27.3	28.0	27.8	28.3	28.7
6H	25.4	25.9	25.9	26.3	26.8	27.3	27.7	27.7	28.2	28.6
8H	25.4	25.8	25.9	26.3	26.7	27.2	27.6	27.7	28.1	28.5

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 1.2 / - 1.8	+ 0.6 / - 0.9
1.5H	+ 0.9 / - 1.7	+ 0.5 / - 0.3
2.0H	+ 2.9 / - 8.5	+ 1.1 / - 1.7

CIE Pub.117, 20768 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 10.5)
 Area: 0.003 m2

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:杨守真
 Test Date:2025-11-26

V(B) Range:-75 - 75DEG
 V(B) Interval: 2.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
 Humidity:65.0%
 Test Distance:9.078m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:218.80V I:0.6790A P:143.30W PF:0.9640 Freq:50.00Hz		
Lamp Flux:20767.8x1 lm		
NAME: Uranus High Light	TYPE: GK-TWX-0150-N01S	Shielding Angle:
SPEC.: GK-TWX-0150-N01S		
MFR.:		

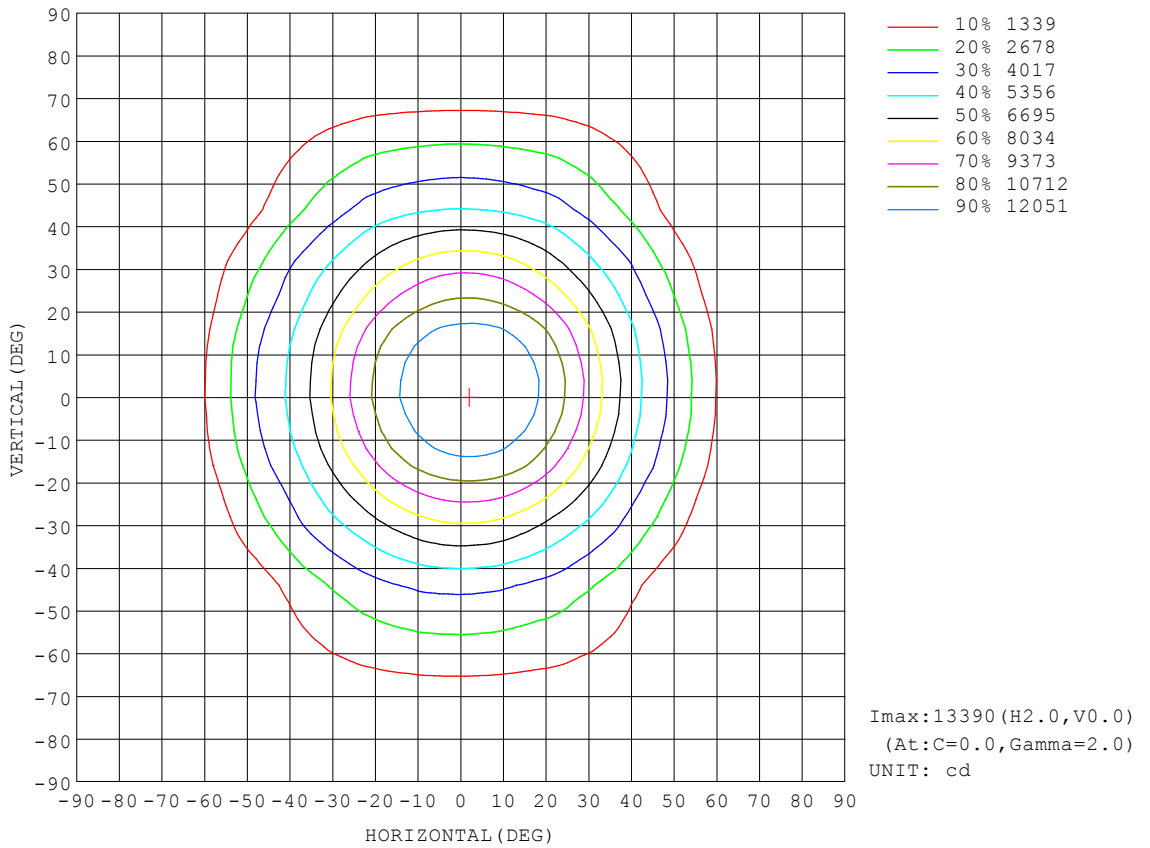
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	70	60	54	69	60	54	68	59	54	49
0.80	79	70	65	79	70	64	77	69	64	59
1.00	87	79	73	86	78	73	84	79	72	67
1.25	93	86	80	92	85	80	90	84	79	73
1.50	97	90	85	96	89	85	93	88	84	78
2.00	103	96	92	101	95	91	98	93	90	83
2.50	105	100	95	103	98	94	100	96	93	86
3.00	108	103	99	106	101	98	102	99	96	88
4.00	111	106	103	108	105	102	104	102	99	91
5.00	112	109	106	110	107	104	106	103	101	93
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:杨守真
Test Date:2025-11-26

V(B) Range:-75 - 75DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:9.078m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:218.80V I:0.6790A P:143.30W PF:0.9640 Freq:50.00Hz		
Lamp Flux:20767.8x1 lm		
NAME: Uranus High Light	TYPE: GK-TWX-0150-N01S	Shielding Angle:
SPEC.: GK-TWX-0150-N01S		
MFR.:		

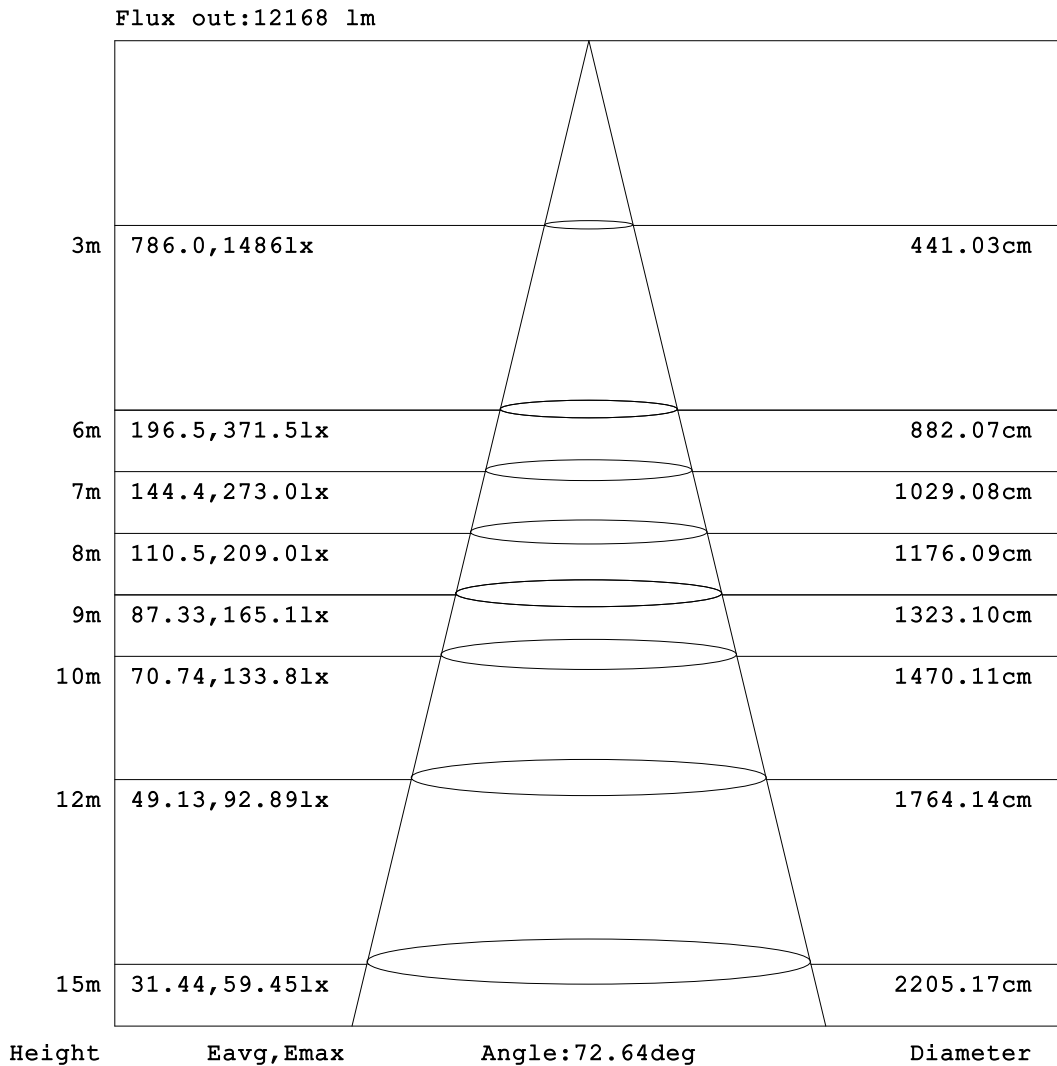


H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:杨守真
 Test Date:2025-11-26

V(B) Range:-75 - 75DEG
 V(B) Interval: 2.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
 Humidity:65.0%
 Test Distance:9.078m [K=1.0000]
 Remarks:

AAI Figure

Test:U:218.80V I:0.6790A P:143.30W PF:0.9640 Freq:50.00Hz Lamp Flux:20767.8x1 lm		
NAME: Uranus High Light	TYPE: GK-TWX-0150-N01S	Shielding Angle:
SPEC.: GK-TWX-0150-N01S		
MFR.:		



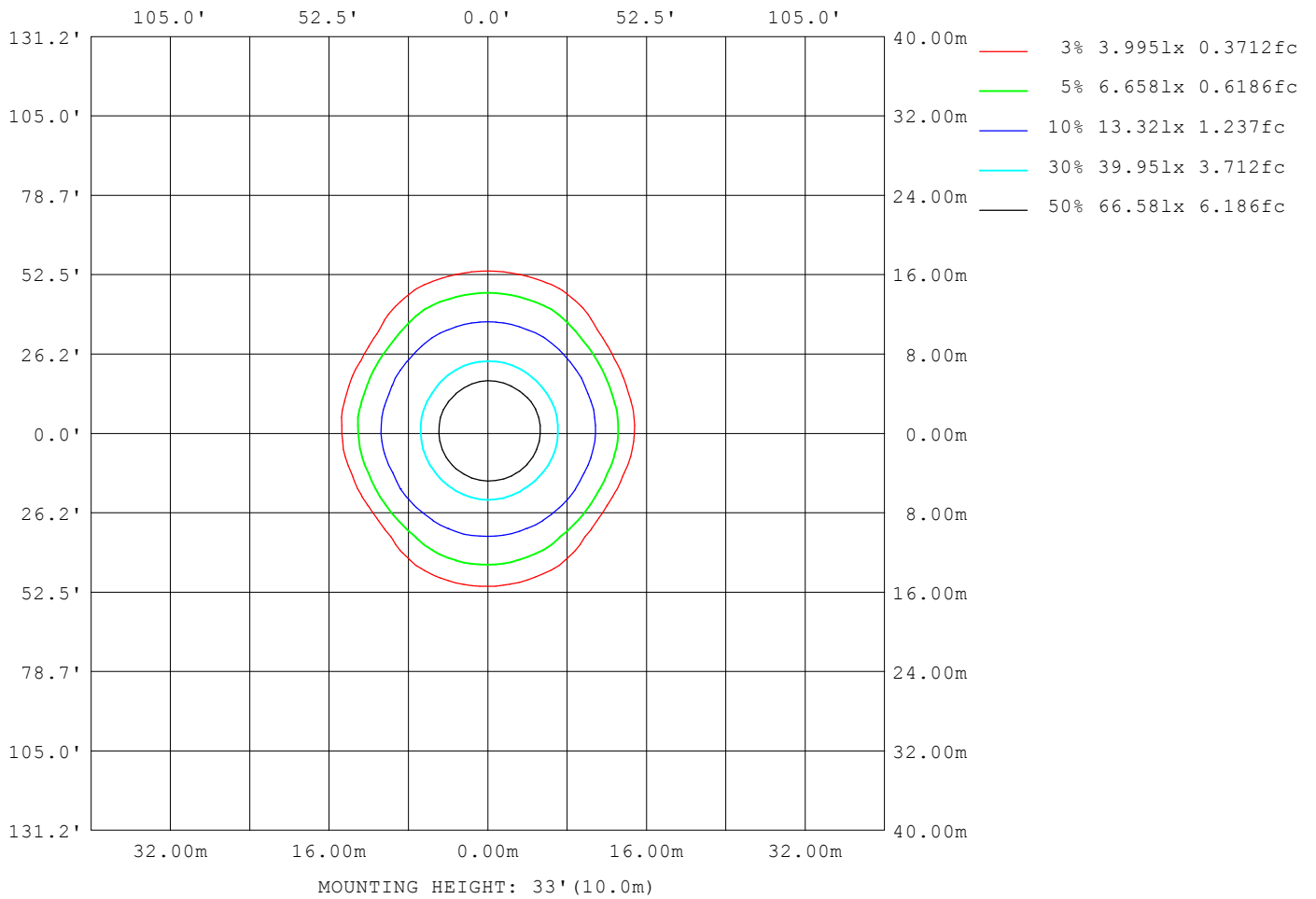
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:杨守真
Test Date:2025-11-26

V(B) Range:-75 - 75DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:9.078m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:218.80V I:0.6790A P:143.30W PF:0.9640 Freq:50.00Hz		
Lamp Flux:20767.8x1 lm		
NAME: Uranus High Light	TYPE: GK-TWX-0150-N01S	Shielding Angle:
SPEC.: GK-TWX-0150-N01S		
MFR.:		



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:杨守真
Test Date:2025-11-26

V(B) Range:-75 - 75DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:9.078m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:218.80V I:0.6790A P:143.30W PF:0.9640 Freq:50.00Hz Lamp Flux:20767.8x1 lm		
NAME: Uranus High Light	TYPE: GK-TWX-0150-N01S	Shielding Angle:
SPEC.: GK-TWX-0150-N01S		
MFR.:		

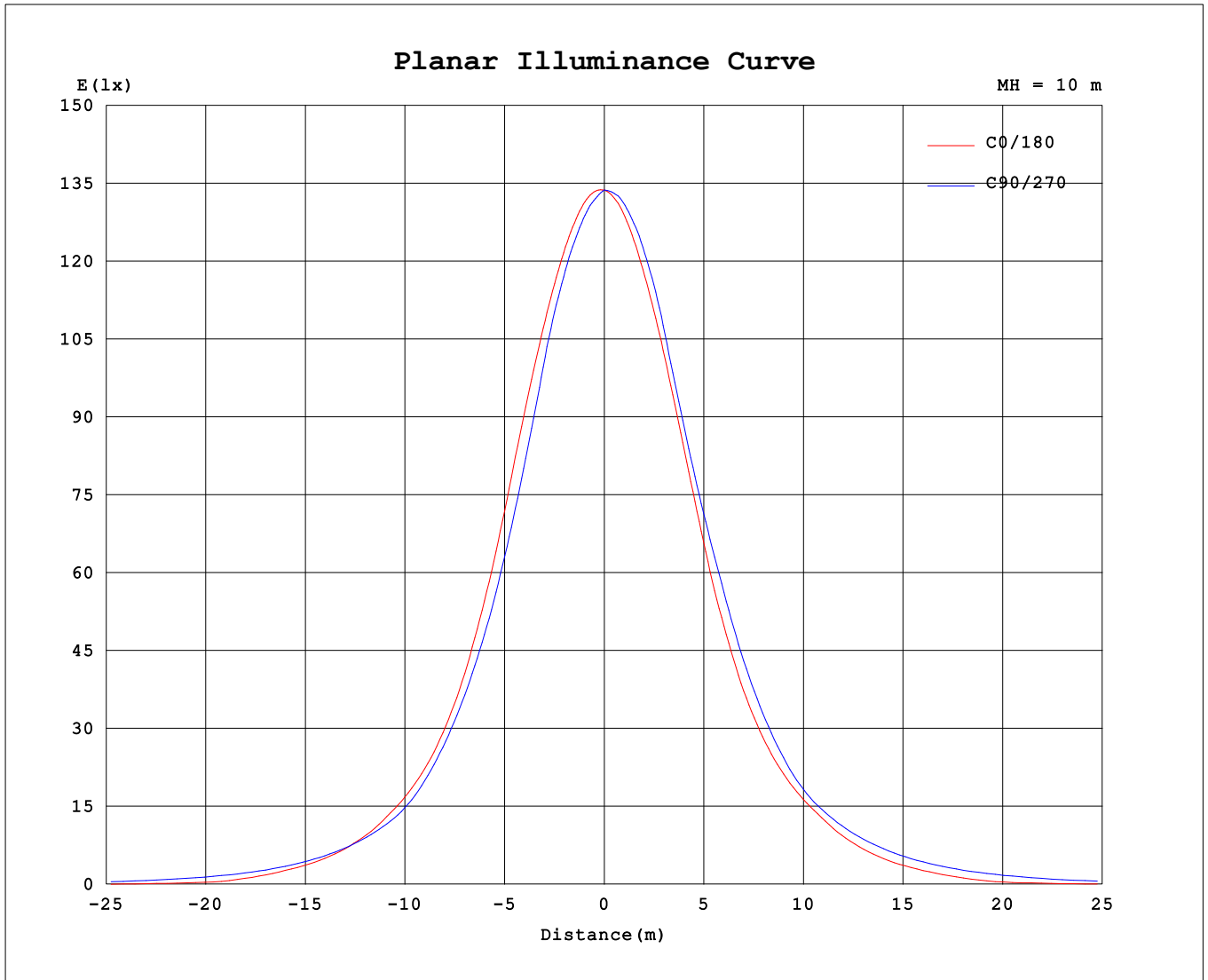
AvgL	cd/m2
L_0~180 (65) av	279562
L_0~180 (75) av	10978
L_0~180 (85) av	10657
L_90~270 (65) av	1220763
L_90~270 (75) av	106131
L_90~270 (85) av	0
L_45 (65) av	893372
L_45 (75) av	360952
L_45 (85) av	0

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:杨守真
Test Date:2025-11-26

V(B) Range:-75 - 75DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:9.078m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:杨守真
 Test Date:2025-11-26

V(B) Range:-75 - 75DEG
 V(B) Interval: 2.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
 Humidity:65.0%
 Test Distance:9.078m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:218.80V I:0.6790A P:143.30W PF:0.9640 Freq:50.00Hz		
Lamp Flux:20767.8x1 lm		
NAME: Uranus High Light	TYPE: GK-TWX-0150-N01S	Shielding Angle:
SPEC.: GK-TWX-0150-N01S		
MFR.:		

Table--4

UNIT: X10cd

C (DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	1337	1337	1337	1337	1337	1337	1337	1337	1337	1337	1337	1337	1337	1337	1337				
5	1335	1336	1336	1337	1337	1337	1337	1336	1336	1336	1335	1335	1335	1335	1335				
10	1310	1311	1311	1312	1312	1312	1312	1313	1313	1312	1312	1310	1309	1307	1307				
15	1257	1261	1263	1263	1264	1264	1265	1265	1264	1263	1263	1262	1261	1257	1255				
20	1154	1159	1165	1171	1179	1187	1191	1191	1189	1190	1188	1186	1184	1181	1175				
25	1039	1041	1043	1047	1052	1058	1065	1074	1080	1079	1075	1072	1070	1067	1059				
30	921	919	917	915	915	915	918	920	924	929	926	920	917	915	907				
35	787	785	783	779	774	770	769	765	764	767	771	768	762	756	750				
40	650	650	649	647	642	636	627	625	621	619	618	620	613	607	604				
45	516	519	522	524	519	509	504	498	497	493	489	487	491	485	484				
50	421	419	418	414	401	395	385	379	378	374	366	365	369	366	370				
55	338	336	336	327	313	297	275	264	258	251	250	245	247	253	251				
60	255	254	254	245	235	218	199	176	151	137	135	137	129	137	133				
65	172	173	174	169	162	149	134	114	83.1	50.5	49.0	42.0	39.0	35.3	35.3				
70	90.4	93.8	96.6	96.2	94.2	89.3	80.0	64.8	41.9	24.9	13.0	4.97	6.49	3.71	2.67				
75	12.7	15.4	21.1	27.1	31.9	34.6	34.0	27.6	16.6	10.4	2.74	0.96	0.90	0.86	0.83				
80	0.00	0.00	0.00	0.00	0.00	0.00	0.01	2.45	3.28	2.59	0.65	0.61	0.56	0.54	0.52				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.30	0.28	0.29				
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:杨守真
Test Date:2025-11-26

V(B) Range:-75 - 75DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:9.078m [K=1.0000]
Remarks: