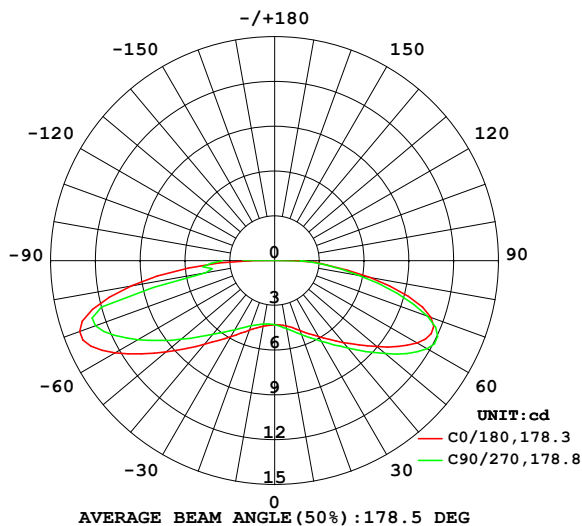


LUMINAIRE PHOTOMETRIC TEST REPORT

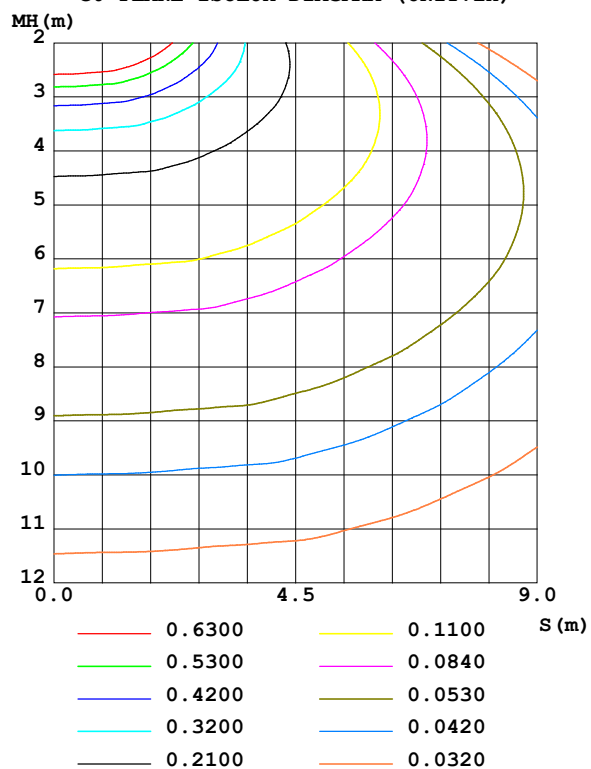
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 广东赛凌科技有限公司	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 113.20 lm/W
MODEL	UTW615B-F02	I _{max} (cd)	14.30	S/MH (C0/180)	2.76	
NOMINAL POWER (W)	0.444	LOR (%)	100.0	S/MH (C90/270)	2.42	
RATED VOLTAGE (V)	12	TOTAL FLUX (lm)	50.260	η UP, DN (C0-180)	0.0, 49.1	
NOMINAL FLUX (lm)	50.2605	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.9	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	2.00	
TEST VOLTAGE (V)	11.999	η down (%)	100.0	CIBSE SHR MAX	2.00	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: 梁焯淳
Test Date: 2023-07-25

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity: 65.0%
Test Distance: 8.150m [K=1.0000]
Remarks: UTW615B-F02

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

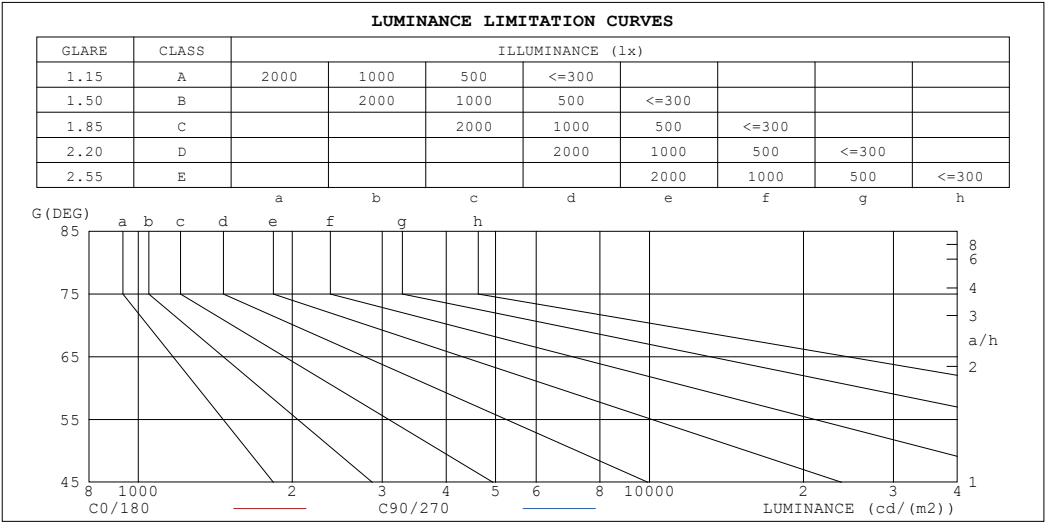
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	4.456	4.579	4.623	4.592	4.466	4.370	4.326	4.367	0- 10	0.4182	0.4182	0.83,0.83
20	4.985	5.161	5.278	5.183	4.963	4.737	4.648	4.739	10- 20	1.333	1.751	3.48,3.48
30	5.884	6.063	6.241	6.197	5.868	5.502	5.351	5.501	20- 30	2.487	4.238	8.43,8.43
40	7.166	7.490	7.651	7.622	7.314	6.664	6.438	6.652	30- 40	4.040	8.278	16.5,16.5
50	8.966	9.467	9.696	9.686	9.526	8.569	8.189	8.302	40- 50	6.215	14.49	28.8,28.8
60	11.02	11.53	11.80	12.07	12.37	11.41	10.60	10.44	50- 60	9.149	23.64	47,47
70	11.14	10.27	10.92	12.01	13.91	14.17	12.78	11.65	60- 70	11.87	35.51	70.7,70.7
80	6.481	3.163	5.743	7.086	9.718	11.71	4.710	3.757	70- 80	10.27	45.78	91.1,91.1
90	1.353	0.7346	1.730	2.023	1.585	0.0011	3.512	2.018	80- 90	4.478	50.26	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:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:梁焯淳
 Test Date:2023-07-25

γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:8.150m [K=1.0000]
 Remarks: UTW615B-F02

LUMINANCE LIMITATION CURVES

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 广东赛凌科技有限公司	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	398	395
80	365	332
75	350	330
70	318	321
65	268	287
60	216	237
55	171	190
50	136	152
45	110	122

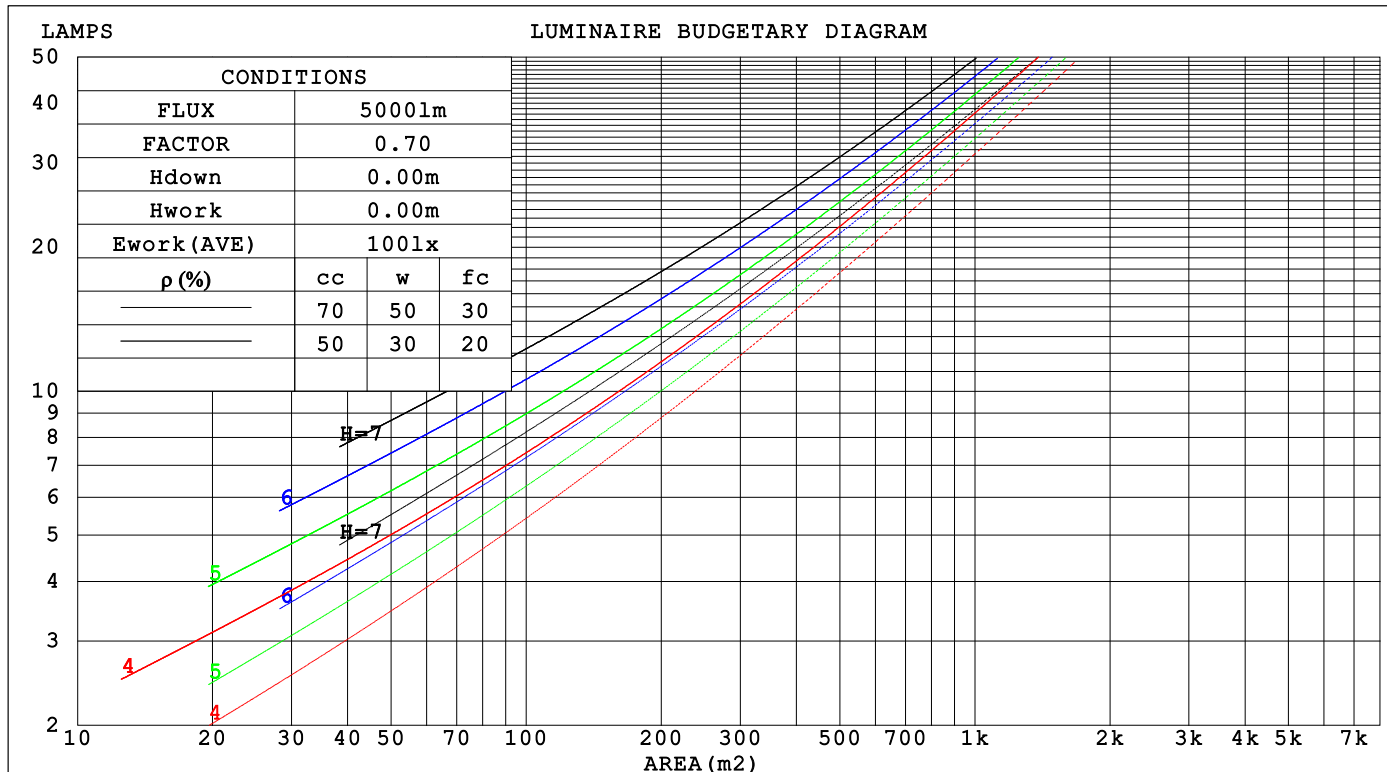
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:梁焱淳
Test Date:2023-07-25

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:8.150m [K=1.0000]
Remarks: UTW615B-F02

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 广东赛凌科技有限公司	SUR.:	Shielding 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															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	.95	.88	.82	.92	.86	.80	.88	.82	.78	.83	.79	.75	.80	.76	.73	.70														
2.0	.77	.67	.58	.75	.65	.58	.71	.63	.56	.67	.61	.55	.64	.58	.53	.51														
3.0	.64	.53	.44	.62	.52	.43	.59	.50	.42	.56	.48	.41	.53	.46	.40	.38														
4.0	.54	.42	.34	.53	.42	.33	.50	.40	.33	.47	.39	.32	.45	.37	.32	.29														
5.0	.47	.35	.27	.45	.35	.27	.43	.34	.26	.41	.32	.26	.39	.31	.25	.23														
6.0	.41	.30	.22	.40	.29	.22	.38	.28	.21	.36	.28	.21	.34	.27	.21	.18														
7.0	.36	.26	.18	.36	.25	.18	.34	.25	.18	.32	.24	.18	.31	.23	.18	.15														
8.0	.33	.23	.16	.32	.22	.16	.30	.22	.15	.29	.21	.15	.28	.20	.15	.13														
9.0	.30	.20	.14	.29	.20	.13	.28	.19	.13	.26	.19	.13	.25	.18	.13	.11														
10.0	.27	.18	.12	.26	.18	.12	.25	.17	.12	.24	.17	.12	.23	.16	.11	.09														



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: 梁焯淳
Test Date: 2023-07-25

γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity: 65.0%
Test Distance: 8.150m [K=1.0000]
Remarks: UTW615B-F02

WEC AND CCEC

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 广东赛凌科技有限公司	SUR.:	Shielding 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					Wall Exitance Coefficients(WEC)
0.0						
1.0	.488 .278 .088	.480 .274 .087	.466 .268 .085	.453 .261 .084	.441 .256 .082	
2.0	.423 .232 .071	.416 .229 .071	.403 .224 .070	.391 .219 .069	.380 .215 .068	
3.0	.370 .197 .059	.364 .195 .059	.352 .191 .058	.342 .187 .057	.332 .184 .057	
4.0	.327 .170 .050	.321 .168 .050	.311 .165 .049	.302 .162 .049	.293 .159 .048	
5.0	.292 .149 .043	.287 .147 .043	.278 .145 .043	.270 .142 .042	.262 .140 .042	
6.0	.263 .132 .038	.259 .131 .038	.251 .129 .037	.243 .126 .037	.236 .124 .037	
7.0	.240 .118 .034	.236 .117 .033	.229 .116 .033	.222 .114 .033	.216 .112 .033	
8.0	.220 .107 .030	.216 .106 .030	.210 .105 .030	.204 .103 .030	.198 .102 .030	
9.0	.203 .098 .027	.200 .097 .027	.194 .096 .027	.188 .094 .027	.183 .093 .027	
10.0	.188 .090 .025	.185 .089 .025	.180 .088 .025	.175 .087 .025	.171 .086 .025	

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					Ceiling Cavity Exitance Coefficients(CCEC)
0.0	.190 .190 .190	.163 .163 .163	.111 .111 .111	.064 .064 .064	.020 .020 .020	
1.0	.193 .155 .120	.165 .133 .104	.113 .091 .072	.065 .053 .042	.021 .017 .013	
2.0	.190 .131 .082	.162 .113 .071	.111 .078 .050	.064 .045 .029	.021 .015 .009	
3.0	.184 .115 .060	.158 .099 .052	.108 .069 .037	.062 .040 .022	.020 .013 .007	
4.0	.176 .103 .047	.151 .089 .041	.104 .062 .029	.060 .036 .017	.019 .012 .006	
5.0	.168 .093 .038	.144 .080 .033	.099 .056 .023	.057 .033 .014	.019 .011 .005	
6.0	.159 .085 .032	.137 .074 .028	.094 .052 .020	.055 .030 .012	.018 .010 .004	
7.0	.151 .078 .028	.130 .068 .024	.090 .048 .017	.052 .028 .010	.017 .009 .003	
8.0	.143 .073 .024	.123 .063 .021	.085 .044 .015	.050 .026 .009	.016 .009 .003	
9.0	.136 .068 .022	.117 .059 .019	.081 .041 .014	.047 .024 .008	.015 .008 .003	
10.0	.129 .063 .020	.111 .055 .017	.077 .039 .012	.045 .023 .007	.015 .008 .002	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:梁焯淳
Test Date:2023-07-25

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:8.150m [K=1.0000]
Remarks: UTW615B-F02

UGR(Unified Glare Rating) Table

NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: 广东赛凌科技有限公司					SUR.:			Shielding 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	18.2	20.2	18.5	20.4	20.7	18.6	20.6	18.9	20.8	21.0	
	3H	21.7	23.5	22.0	23.8	24.1	21.9	23.7	22.2	24.0	24.2
	4H	23.1	24.8	23.4	25.1	25.4	23.1	24.8	23.4	25.1	25.4
	6H	24.1	25.8	24.5	26.1	26.4	24.0	25.7	24.3	26.0	26.3
	8H	24.5	26.1	24.8	26.4	26.7	24.3	26.0	24.7	26.3	26.6
	12H	24.7	26.3	25.1	26.6	27.0	24.6	26.2	25.0	26.5	26.9
4H	2H	19.5	21.3	19.9	21.6	21.9	19.8	21.5	20.1	21.8	22.1
	3H	22.8	24.4	23.2	24.7	25.1	22.9	24.5	23.3	24.8	25.2
	4H	24.3	25.7	24.7	26.1	26.4	24.2	25.7	24.6	26.0	26.4
	6H	25.3	26.7	25.8	27.0	27.4	25.2	26.5	25.6	26.9	27.3
	8H	25.7	27.0	26.1	27.4	27.8	25.6	26.9	26.1	27.3	27.7
	12H	26.0	27.2	26.5	27.6	28.0	26.0	27.2	26.4	27.6	28.0
8H	4H	24.6	25.8	25.0	26.2	26.6	24.5	25.8	24.9	26.1	26.5
	6H	25.7	26.8	26.2	27.2	27.7	25.6	26.7	26.1	27.1	27.6
	8H	26.2	27.1	26.6	27.6	28.0	26.2	27.1	26.6	27.6	28.0
	12H	26.6	27.4	27.1	27.9	28.4	26.7	27.5	27.2	28.0	28.5
12H	4H	24.6	25.7	25.0	26.1	26.6	24.5	25.7	25.0	26.1	26.5
	6H	25.8	26.7	26.2	27.2	27.6	25.7	26.7	26.2	27.1	27.6
	8H	26.2	27.1	26.7	27.6	28.0	26.2	27.1	26.7	27.6	28.0
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.1 / - 0.2					+ 0.1 / - 0.2					
2.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.4					

CIE Pub.117, 50.26 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -10.4)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:梁焱淳
Test Date:2023-07-25

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:8.150m [K=1.0000]
Remarks: UTW615B-F02

UTILIZATION FACTORS TABLE

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 广东赛凌科技有限公司	SUR.:	Shielding Angle:

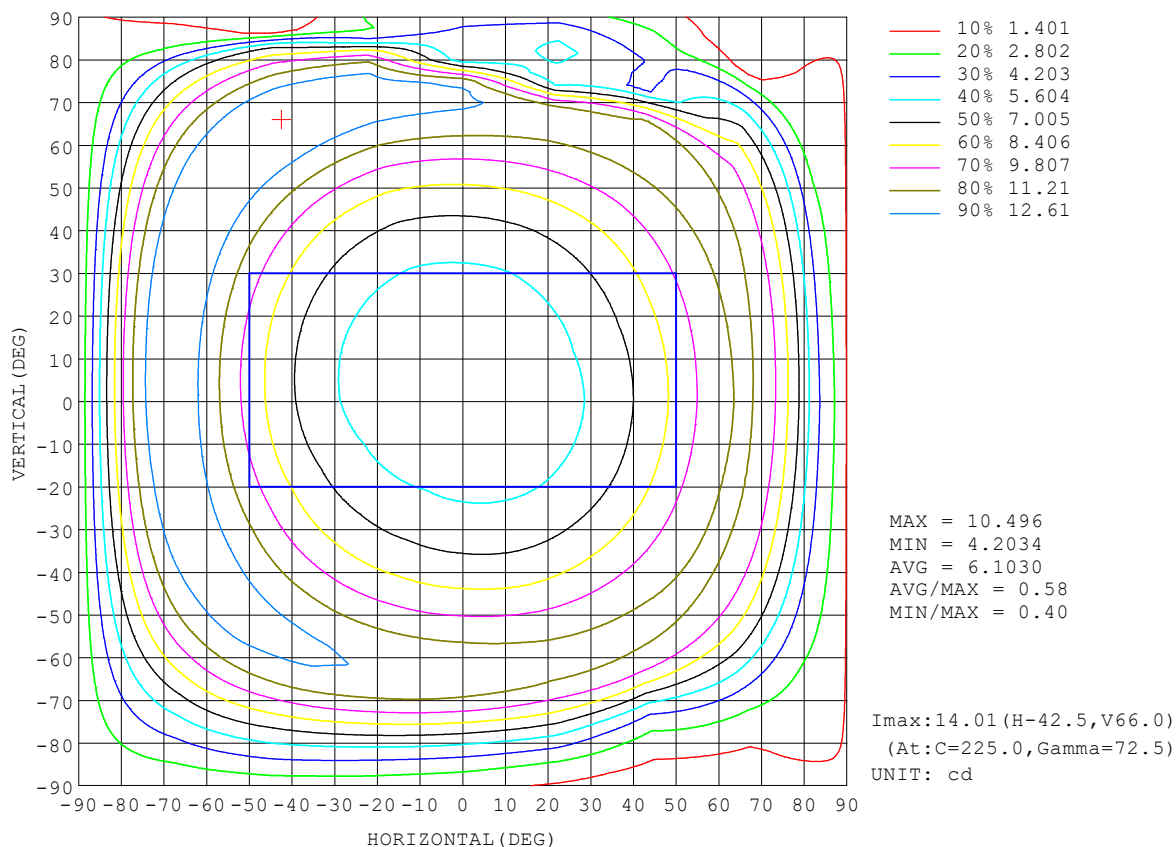
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	43	28	20	42	28	20	40	28	20	12
0.80	51	36	27	50	36	27	48	35	26	17
1.00	59	44	34	58	43	34	55	46	33	24
1.25	67	52	42	65	51	41	62	49	41	31
1.50	73	58	48	71	57	48	67	55	47	36
2.00	81	69	59	79	67	58	75	65	57	46
2.50	87	75	66	85	74	65	80	71	64	53
3.00	92	81	73	89	80	72	85	76	70	59
4.00	98	89	82	95	87	80	90	83	78	67
5.00	102	94	88	99	92	86	94	88	83	72
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: 梁焯淳
Test Date: 2023-07-25

γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity: 65.0%
Test Distance: 8.150m [K=1.0000]
Remarks: UTW615B-F02

ISOCANDELA DIAGRAM

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 广东赛凌科技有限公司	SUR.:	Shielding Angle:

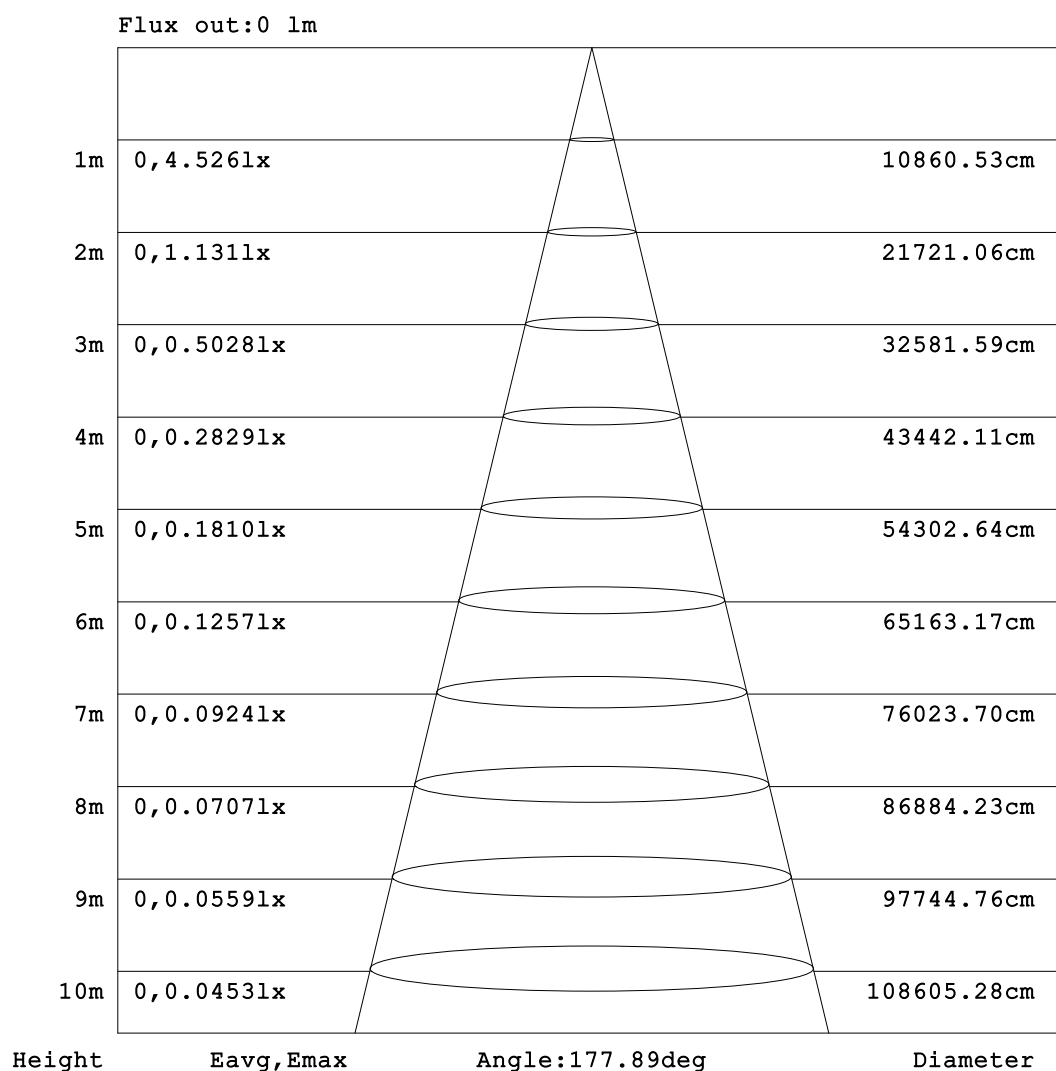


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:梁焱淳
Test Date:2023-07-25

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:8.150m [K=1.0000]
Remarks: UTW615B-F02

AAI Figure

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 广东赛凌科技有限公司	SUR.:	Shielding Angle:



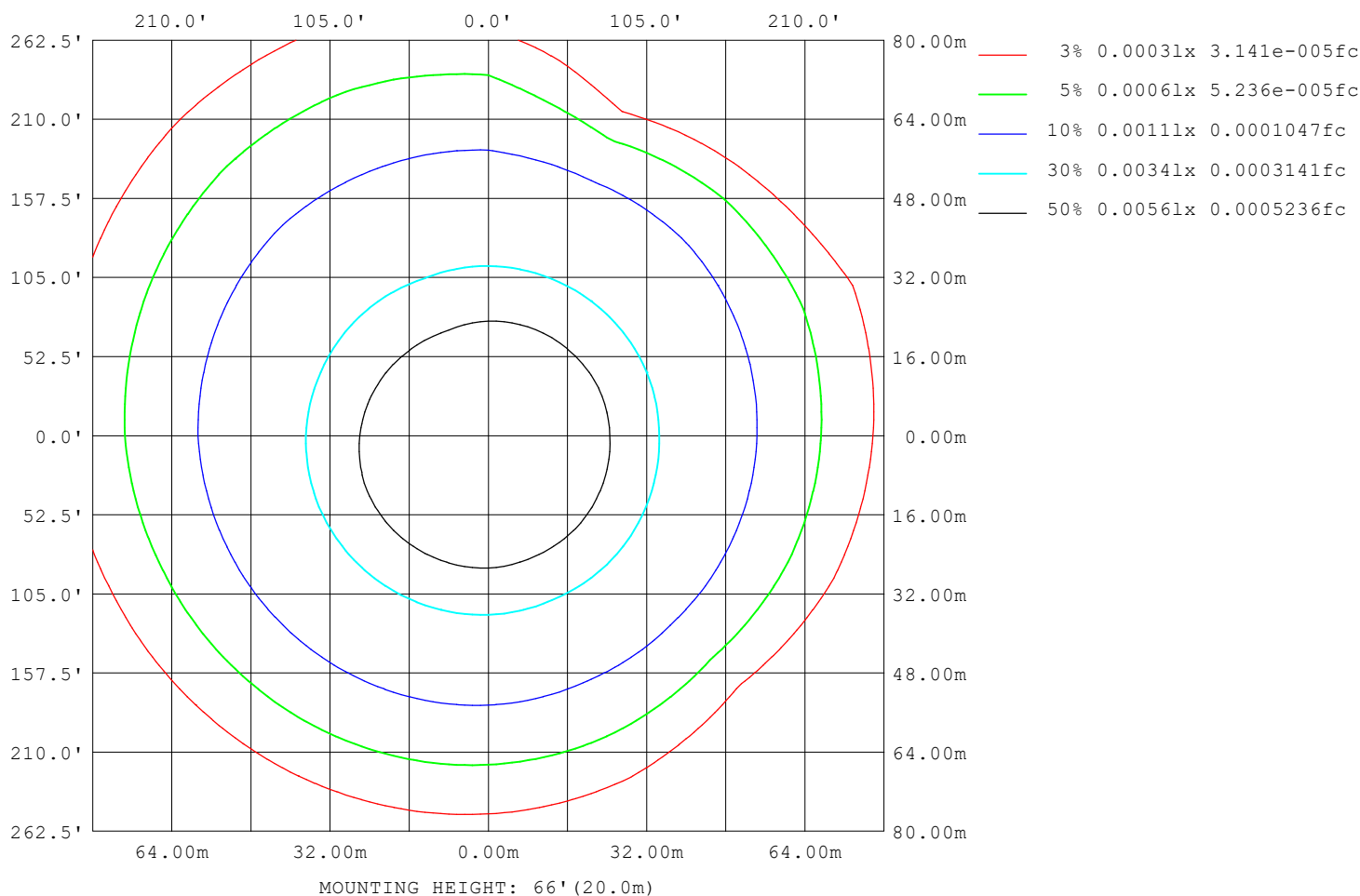
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:梁焯淳
 Test Date:2023-07-25

γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:8.150m [K=1.0000]
 Remarks: UTW615B-F02

ISOLUX DIAGRAM

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 广东赛凌科技有限公司	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: 梁焯淳
 Test Date: 2023-07-25

γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity: 65.0%
 Test Distance: 8.150m [K=1.0000]
 Remarks: UTW615B-F02

LED Avg.L Report

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 广东赛凌科技有限公司	SUR.:	Shielding Angle:

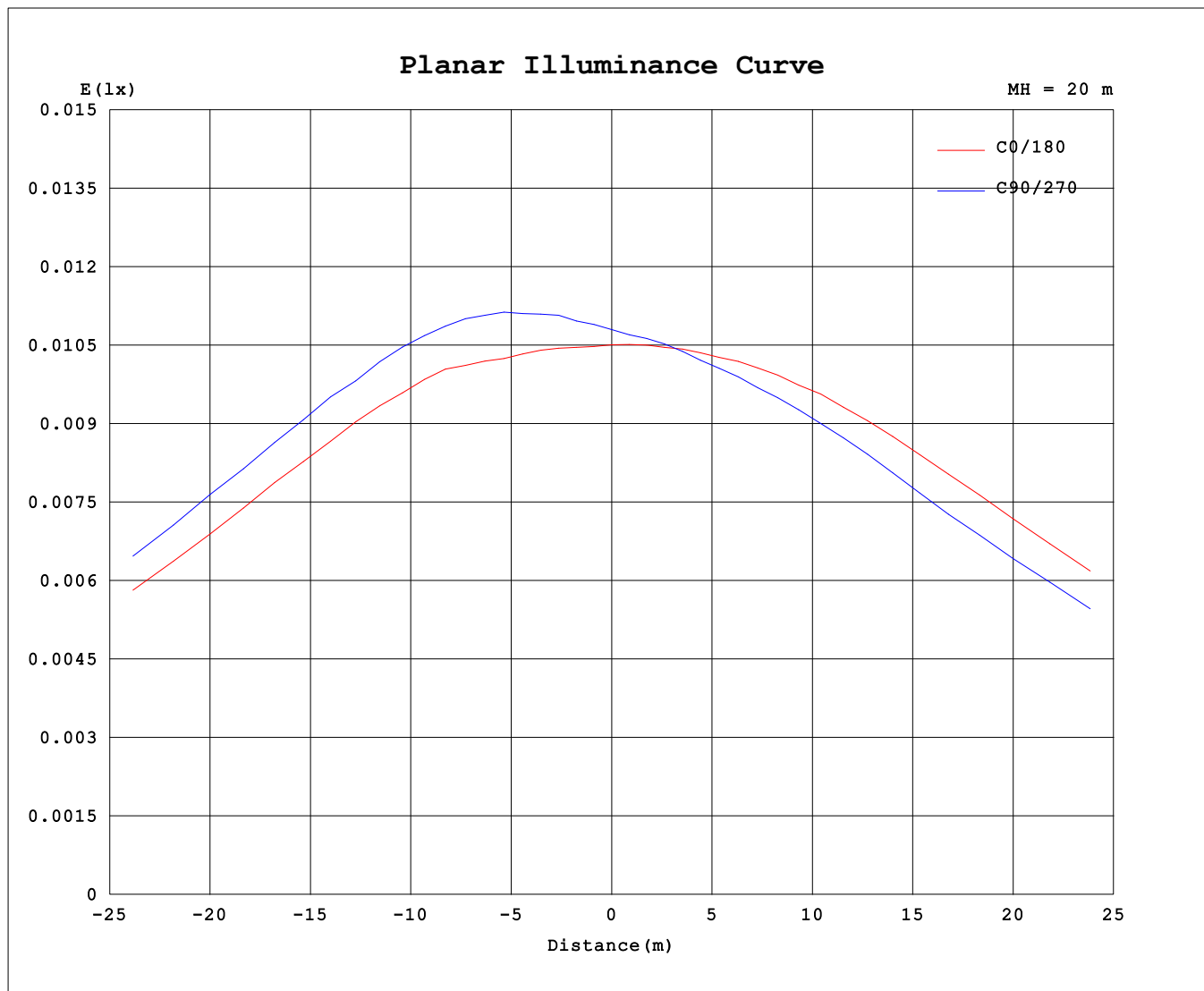
AvgL	cd/m2
L_0~180 (65) av	298
L_0~180 (75) av	423
L_0~180 (85) av	536
L_90~270 (65) av	283
L_90~270 (75) av	396
L_90~270 (85) av	473
L_45 (65) av	288
L_45 (75) av	368
L_45 (85) av	472

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: 梁焯淳
Test Date: 2023-07-25

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity: 65.0%
Test Distance: 8.150m [K=1.0000]
Remarks: UTW615B-F02

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: 梁焯淳
Test Date: 2023-07-25

γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity: 65.0%
Test Distance: 8.150m [K=1.0000]
Remarks: UTW615B-F02

NAME :	TYPE :	WEIGHT :
SPEC. :	DIM. :	SERIAL No. :
MFR. : 广东赛凌科技有限公司	SUR. :	Shielding Angle :

UNIT: cd

```

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:8.150m [K=1.0000]
Remarks: UTW615B-F02

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