

Luminaire Photograph



Light Output Ratio:	73.4%	
Luminaire Power:	15.42 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.60	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: ZHONGWENHUI
Test Date: 2018-01-22

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity: 65%
Test Distance: 2.990m [K=1.0000]
Remarks: LAMP: CLU028-1202C4-303H5M3-F1 Ra: 90
DRIVER: RMS-15-350AS 350mA
LENS: PM-1043B 30R
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

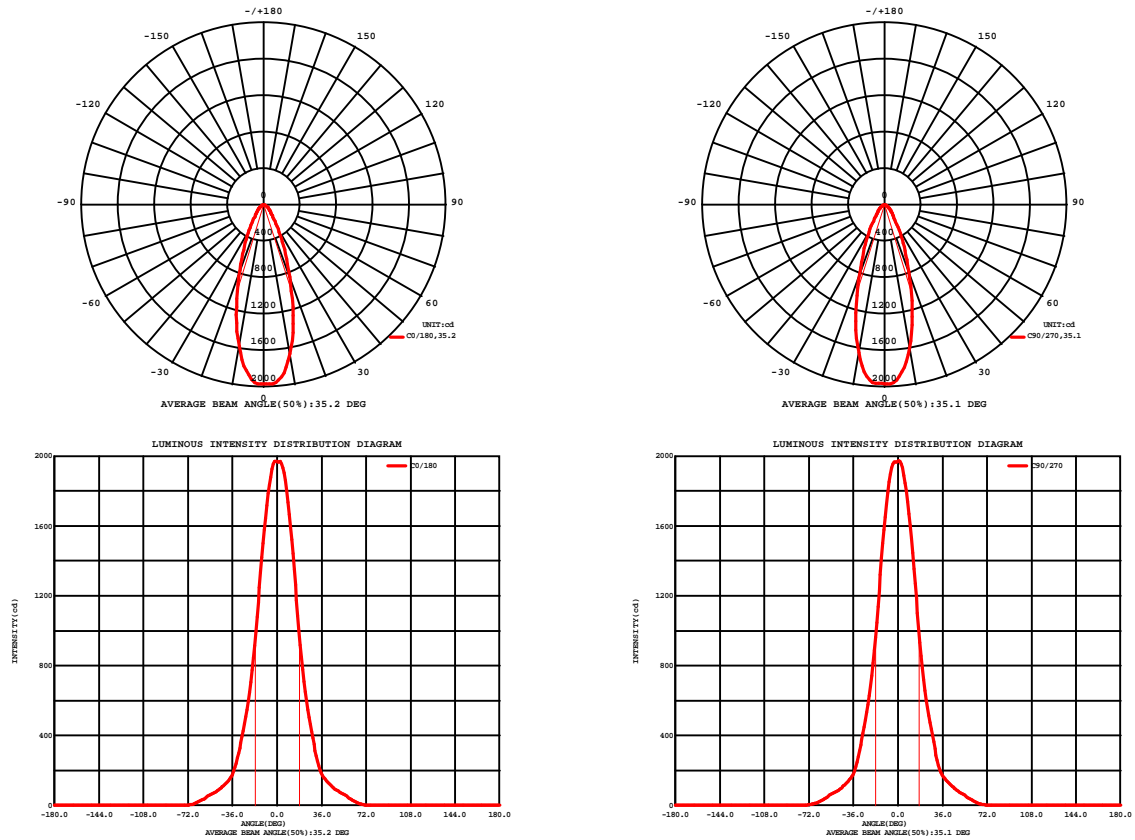


Fig. C0/C180

Fig. C90/C270

C Range: 0 - 360DEG
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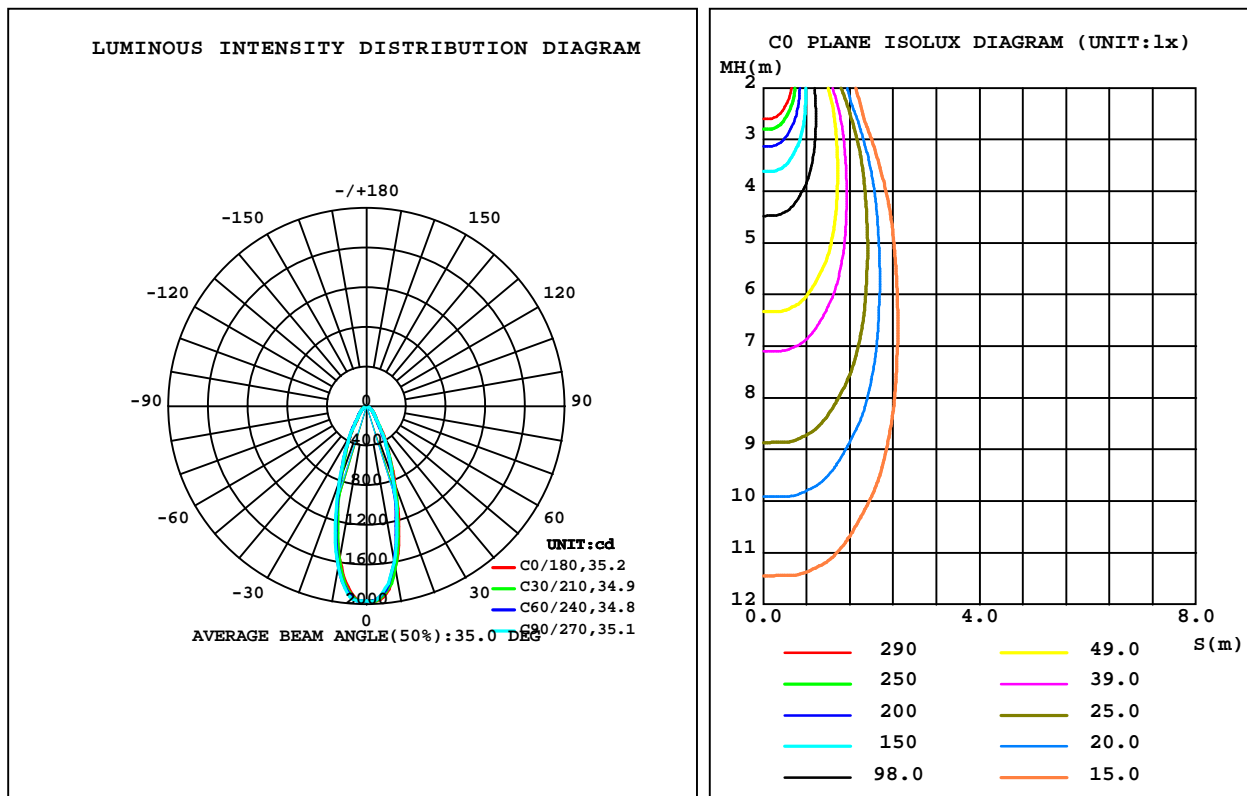


RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.79V I:0.0749A P:15.417W PF:0.9366 Freq:49.99Hz Lamp Flux:1406.16x1 lm		
NAME: 1719.218-AM-WHM-BFCTF06	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1801220250
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 66.95 lm/W			
MODEL	CITIZEN	Imax(cd)	1971	S/MH(C0/180)	0.57
NOMINAL POWER(W)	15	LOR(%)	73.4	S/MH(C90/270)	0.58
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1032.2	h UP,DN(C0-180)	0.2,36.4
NOMINAL FLUX(lm)	1406.16	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.2,36.7
LAMPS INSIDE	1	h up(%)	0.3	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	h down(%)	73.1	CIBSE SHR MAX	0.60



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:ZHONGWENHUI
Test Date:2018-01-22

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity:65%
Test Distance:2.990m [K=1.0000]
Remarks: LAMP:CLU028-1202C4-303H5M3-F1 Ra:90
DRIVER:RMS-15-350AS 350mA
LENS:PM-1043B 30R
30minutes warm-up



RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	1664	1634	1601	1592	1575	1618	1651	1666	0- 10	173.2	173.2	16.8,12.3
20	846.7	800.9	786.0	783.4	773.5	777.4	815.0	841.1	10- 20	329.1	502.4	48.7,35.7
30	349.5	332.5	325.2	338.7	326.5	334.8	344.7	352.6	20- 30	243.6	745.9	72.3,53
40	141.5	136.5	136.9	139.6	133.4	134.1	138.0	141.4	30- 40	131.3	877.2	85,62.4
50	80.83	76.77	76.03	77.09	74.91	76.12	78.24	80.17	40- 50	80.77	958.0	92.8,68.1
60	35.53	32.97	31.89	33.97	33.22	34.71	34.86	35.53	50- 60	50.00	1008	97.7,71.7
70	4.703	3.668	3.851	4.199	3.766	4.802	5.580	4.857	60- 70	17.03	1025	99.3,72.9
80	0.3878	0.3842	0.4076	0.3976	0.3597	0.3734	0.4306	0.3740	70- 80	2.137	1027	99.5,73
90	0.0259	0.0196	0.0291	0.0193	0.0158	0.0163	0.0240	0.0178	80- 90	0.1879	1027	99.5,73.1
100	0.0579	0.0574	0.0653	0.0608	0.0540	0.0449	0.0483	0.0471	90-100	0.0342	1027	99.5,73.1
110	0.1667	0.1655	0.1705	0.1705	0.1560	0.1390	0.1403	0.1442	100-110	0.1040	1027	99.5,73.1
120	0.3432	0.3381	0.3469	0.3445	0.3046	0.2867	0.2915	0.2997	110-120	0.2306	1028	99.6,73.1
130	0.6485	0.6447	0.6688	0.6576	0.5838	0.5505	0.5591	0.5766	120-130	0.3965	1028	99.6,73.1
140	1.321	1.333	1.396	1.356	1.221	1.153	1.183	1.185	130-140	0.6883	1029	99.7,73.2
150	2.469	2.460	2.494	2.429	2.247	2.108	2.179	2.190	140-150	1.098	1030	99.8,73.2
160	3.226	3.247	3.400	3.014	2.781	2.668	2.972	2.827	150-160	1.261	1031	99.9,73.3
170	2.905	2.831	2.681	2.546	2.425	2.256	2.322	2.512	160-170	0.8068	1032	100,73.4
180	2.399	2.384	2.315	2.363	2.395	2.384	2.313	2.363	170-180	0.2289	1032	100,73.4
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

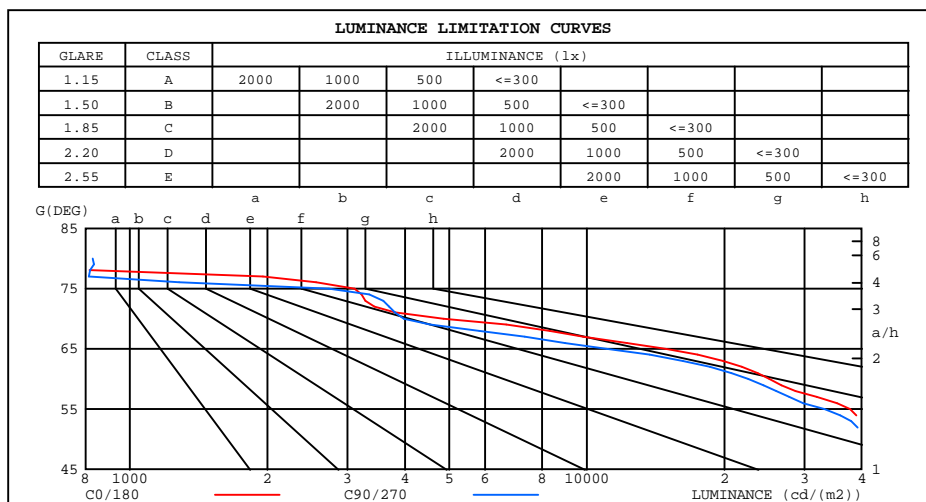
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:ZHONGWENHUI
Test Date:2018-01-22

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity:65%
Test Distance:2.990m [K=1.0000]
Remarks: LAMP:CLU028-1202C4-303H5M3-F1 Ra:90
DRIVER:RMS-15-350AS 350mA
LENS:PM-1043B 30R
30minutes warm-up

RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES

Test:U:219.79V I:0.0749A P:15.417W PF:0.9366 Freq:49.99Hz Lamp Flux:1406.16x1 lm		
NAME: 1719.218-AM-WHM-BFCTF06	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1801220250
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:



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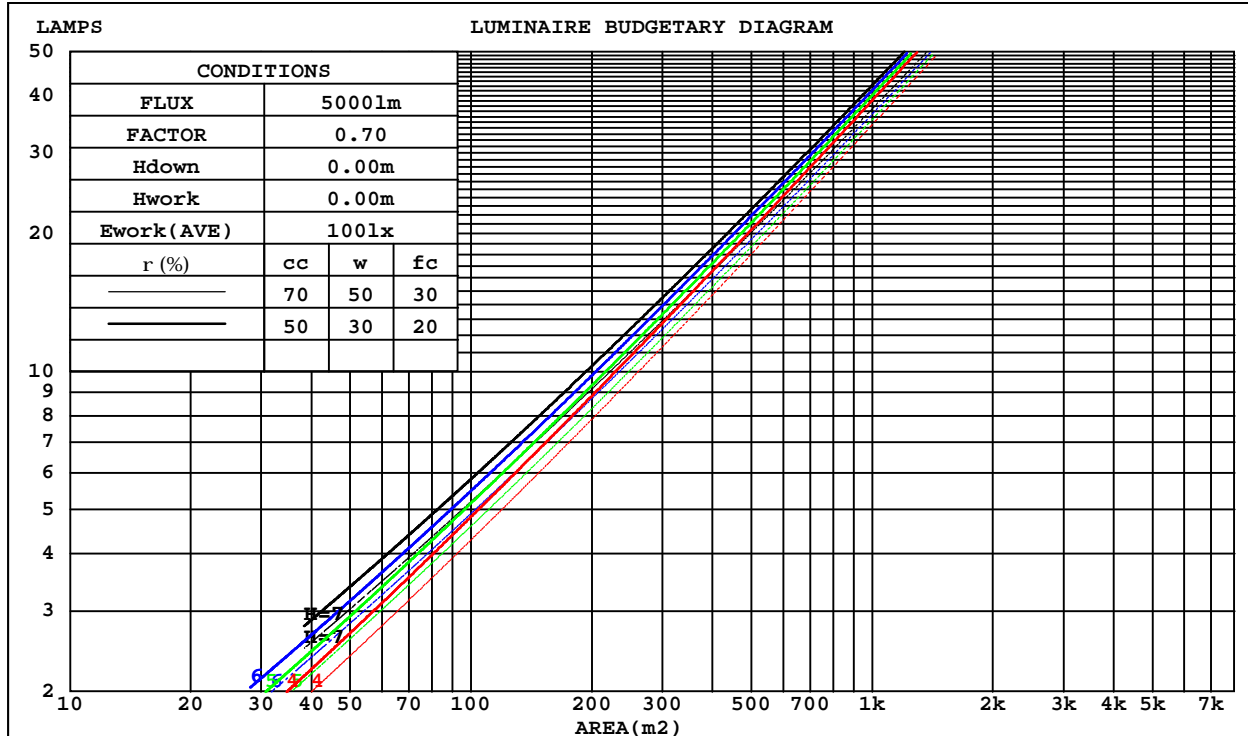


RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	DIM.:	SERIAL No.:1801220250
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



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Test Date:2018-01-22

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30minutes warm-up



RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

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SPEC.:3000K	DIM.:	SERIAL No.:1801220250
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0														
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
rfc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Wall Exitance Coefficients(WEC)														
0.0																														
1.0	.131	.075	.024	.126	.072	.023	.117	.067	.021	.108	.062	.020	.100	.058	.019															
2.0	.126	.069	.021	.122	.067	.021	.114	.063	.020	.106	.060	.019	.099	.056	.018															
3.0	.119	.064	.019	.116	.062	.019	.109	.059	.018	.103	.056	.017	.097	.054	.017															
4.0	.113	.059	.017	.110	.058	.017	.104	.055	.017	.099	.053	.016	.094	.051	.015															
5.0	.107	.055	.016	.105	.054	.016	.099	.052	.015	.095	.050	.015	.090	.048	.014															
6.0	.102	.051	.015	.099	.050	.014	.095	.049	.014	.091	.047	.014	.087	.046	.014															
7.0	.097	.048	.014	.095	.047	.013	.091	.046	.013	.087	.045	.013	.083	.043	.013															
8.0	.092	.045	.013	.090	.044	.013	.087	.043	.012	.083	.042	.012	.080	.041	.012															
9.0	.088	.042	.012	.086	.042	.012	.083	.041	.012	.080	.040	.011	.077	.039	.011															
10.0	.084	.040	.011	.082	.040	.011	.079	.039	.011	.077	.038	.011	.074	.037	.011															

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.142	.142	.142	.122	.122	.122	.083	.083	.083	.048	.048	.048	.015	.015	.015	
1.0	.128	.118	.109	.110	.101	.094	.075	.070	.065	.043	.040	.038	.014	.013	.012	
2.0	.117	.100	.085	.100	.086	.074	.069	.060	.051	.040	.035	.030	.013	.011	.010	
3.0	.108	.086	.068	.093	.074	.059	.064	.052	.042	.037	.030	.024	.012	.010	.008	
4.0	.101	.075	.056	.086	.065	.049	.059	.045	.034	.034	.027	.020	.011	.009	.007	
5.0	.094	.067	.047	.081	.058	.040	.056	.040	.029	.032	.024	.017	.010	.008	.006	
6.0	.088	.060	.039	.076	.052	.034	.052	.036	.024	.030	.021	.014	.010	.007	.005	
7.0	.084	.054	.034	.072	.047	.029	.050	.033	.021	.029	.019	.012	.009	.006	.004	
8.0	.079	.050	.029	.068	.043	.026	.047	.030	.018	.027	.018	.011	.009	.006	.004	
9.0	.075	.046	.026	.065	.040	.023	.045	.028	.016	.026	.017	.010	.008	.005	.003	
10.0	.072	.043	.023	.062	.037	.020	.043	.026	.014	.025	.015	.009	.008	.005	.003	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:ZHONGWENHUI
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Interval: 1.0DEG
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30minutes warm-up



RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

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SPEC.:3000K					DIM.:			SERIAL No.:1801220250		
MFR.: RISE					SUR.:0.002826m2			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	20.7	21.6	20.9	21.8	22.0	20.2	21.1	20.4	21.3	21.4
3H	20.7	21.5	20.9	21.7	21.9	20.1	20.9	20.3	21.1	21.3
4H	20.6	21.4	20.9	21.6	21.9	20.0	20.8	20.3	21.0	21.3
6H	20.5	21.3	20.8	21.5	21.8	19.9	20.7	20.2	20.9	21.2
8H	20.4	21.2	20.8	21.4	21.7	19.9	20.6	20.2	20.9	21.1
12H	20.4	21.1	20.7	21.4	21.7	19.8	20.5	20.1	20.8	21.1
4H 2H	20.7	21.5	21.0	21.7	22.0	20.2	21.0	20.5	21.2	21.5
3H	20.6	21.3	21.0	21.6	21.9	20.1	20.8	20.4	21.1	21.4
4H	20.6	21.2	20.9	21.5	21.8	20.0	20.7	20.4	21.0	21.3
6H	20.5	21.0	20.9	21.4	21.7	19.9	20.5	20.3	20.8	21.2
8H	20.4	20.9	20.8	21.3	21.7	19.9	20.4	20.3	20.7	21.1
12H	20.4	20.8	20.8	21.2	21.6	19.8	20.3	20.2	20.7	21.1
8H 4H	20.4	20.9	20.8	21.3	21.7	19.9	20.4	20.3	20.8	21.1
6H	20.3	20.7	20.8	21.1	21.6	19.8	20.2	20.2	20.6	21.0
8H	20.3	20.6	20.7	21.1	21.5	19.7	20.1	20.2	20.5	21.0
12H	20.2	20.5	20.7	21.0	21.5	19.7	20.0	20.1	20.4	20.9
12H 4H	20.4	20.8	20.8	21.2	21.6	19.8	20.3	20.2	20.7	21.1
6H	20.3	20.6	20.7	21.1	21.5	19.7	20.1	20.2	20.5	21.0
8H	20.2	20.5	20.7	21.0	21.5	19.7	20.0	20.1	20.4	20.9
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.6					+ 1.3 / - 2.1				
1.5H	+ 0.9 / - 1.0					+ 0.9 / - 1.0				
2.0H	+ 2.0 / - 3.2					+ 2.3 / - 4.3				

CIE Pub.117, 1406 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.2$)

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30minutes warm-up

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UTILIZATION FACTORS TABLE

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SPEC.:3000K	DIM.:	SERIAL No.:1801220250
MFR.: RISE	SUR.:0.002826m2	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	60	55	52	60	55	52	59	54	51	48
0.80	66	61	58	66	61	58	65	60	58	54
1.00	70	65	62	69	65	62	68	65	62	58
1.25	74	69	66	73	69	66	71	68	65	62
1.50	76	72	69	75	71	69	73	70	68	64
2.00	78	75	72	77	74	72	75	73	71	66
2.50	80	77	74	79	76	74	76	74	72	67
3.00	81	78	76	80	77	75	77	75	74	69
4.00	83	80	79	81	79	78	78	77	76	70
5.00	84	82	80	82	80	79	79	78	77	71
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

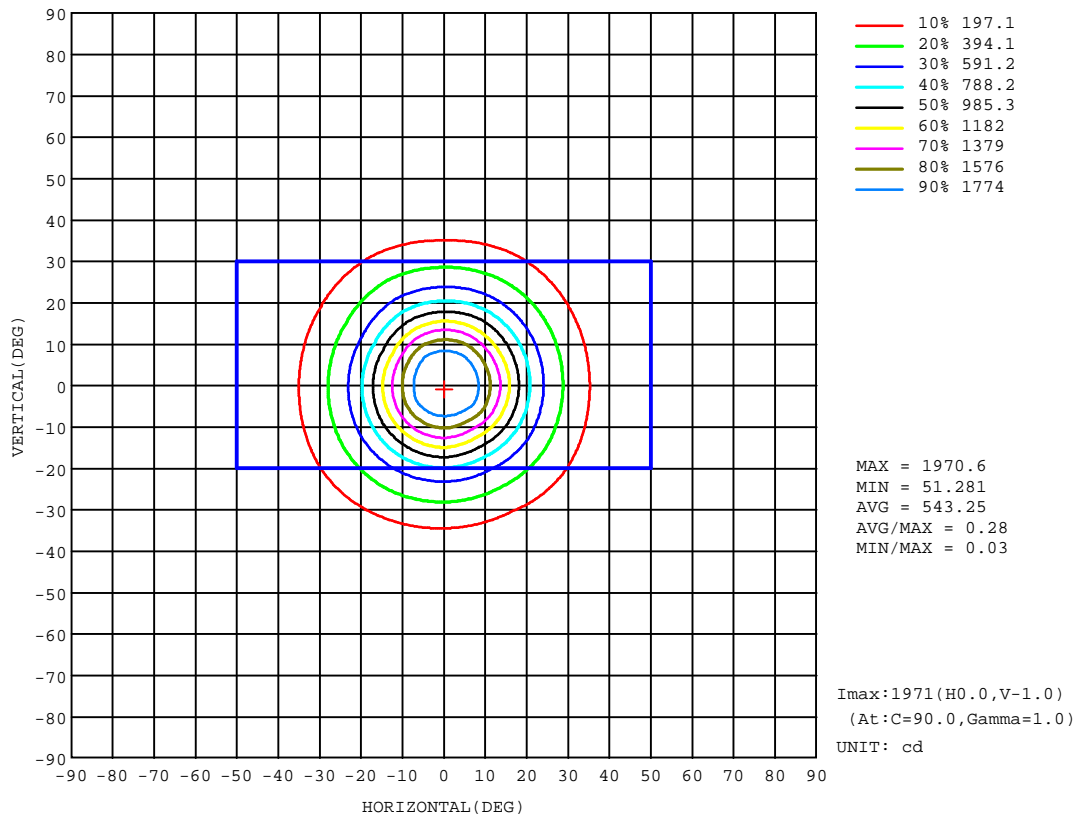
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ISOCANDELA DIAGRAM

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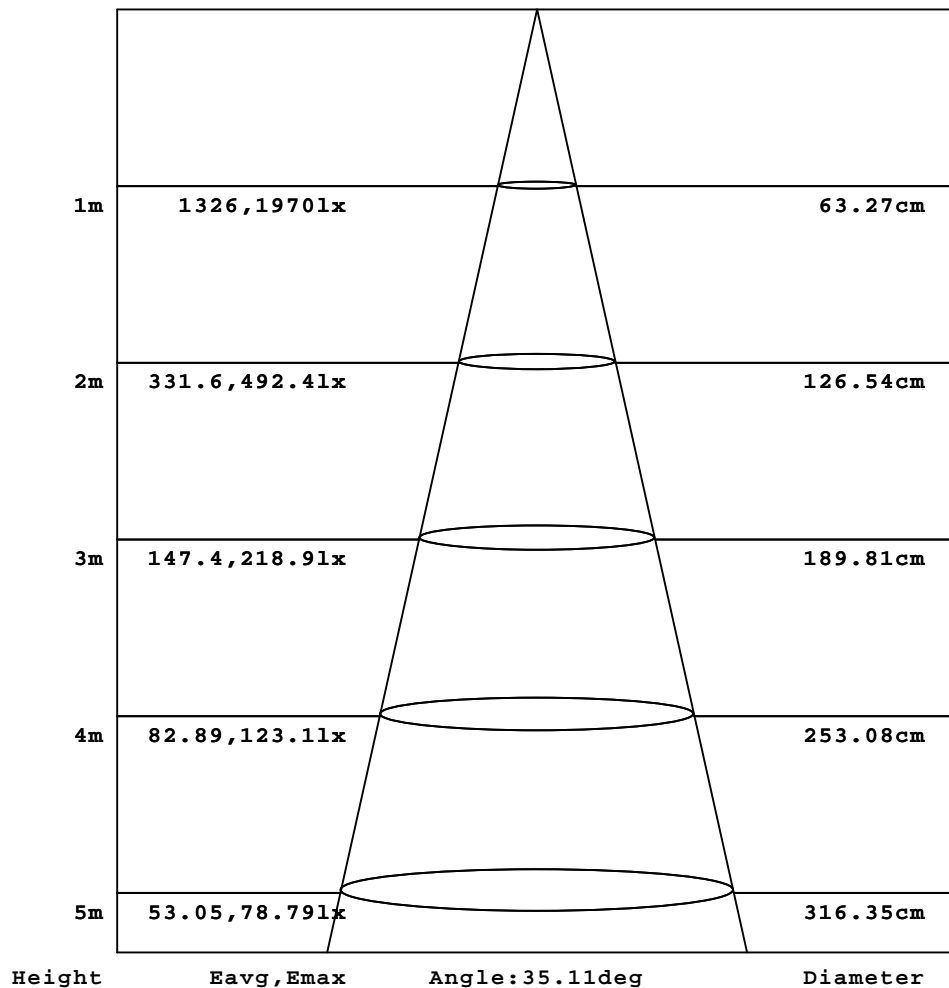
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AAI Figure

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SPEC.:3000K	DIM.:	SERIAL No.:1801220250
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

Flux out:439.9 lm



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

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Test Speed: HIGH
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Operators:ZHONGWENHUI
Test Date:2018-01-22

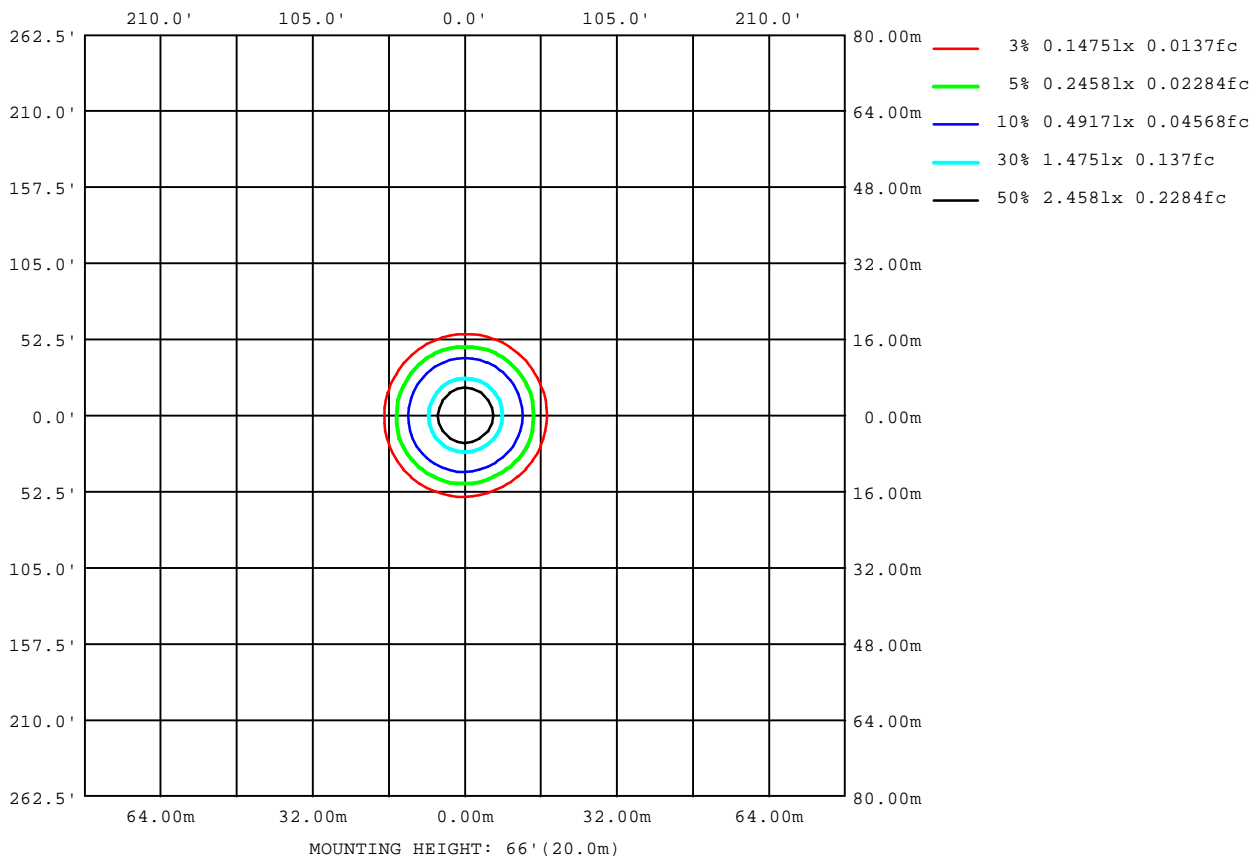
g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity:65%
Test Distance:2.990m [K=1.0000]
Remarks: LAMP:CLU028-1202C4-303H5M3-F1 Ra:90
DRIVER:RMS-15-350AS 350mA
LENS:PM-1043B 30R
30minutes warm-up



RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:219.79V I:0.0749A P:15.417W PF:0.9366 Freq:49.99Hz Lamp Flux:1406.16x1 lm		
NAME: 1719.218-AM-WHM-BFCTF06	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1801220250
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:ZHONGWENHUI
Test Date:2018-01-22

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity:65%
Test Distance:2.990m [K=1.0000]
Remarks: LAMP:CLU028-1202C4-303H5M3-F1 Ra:90
DRIVER:RMS-15-350AS 350mA
LENS:PM-1043B 30R
30minutes warm-up



RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Avg.L Report

Test:U:219.79V I:0.0749A P:15.417W PF:0.9366 Freq:49.99Hz Lamp Flux:1406.16x1 lm		
NAME: 1719.218-AM-WHM-BFCTF06	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1801220250
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

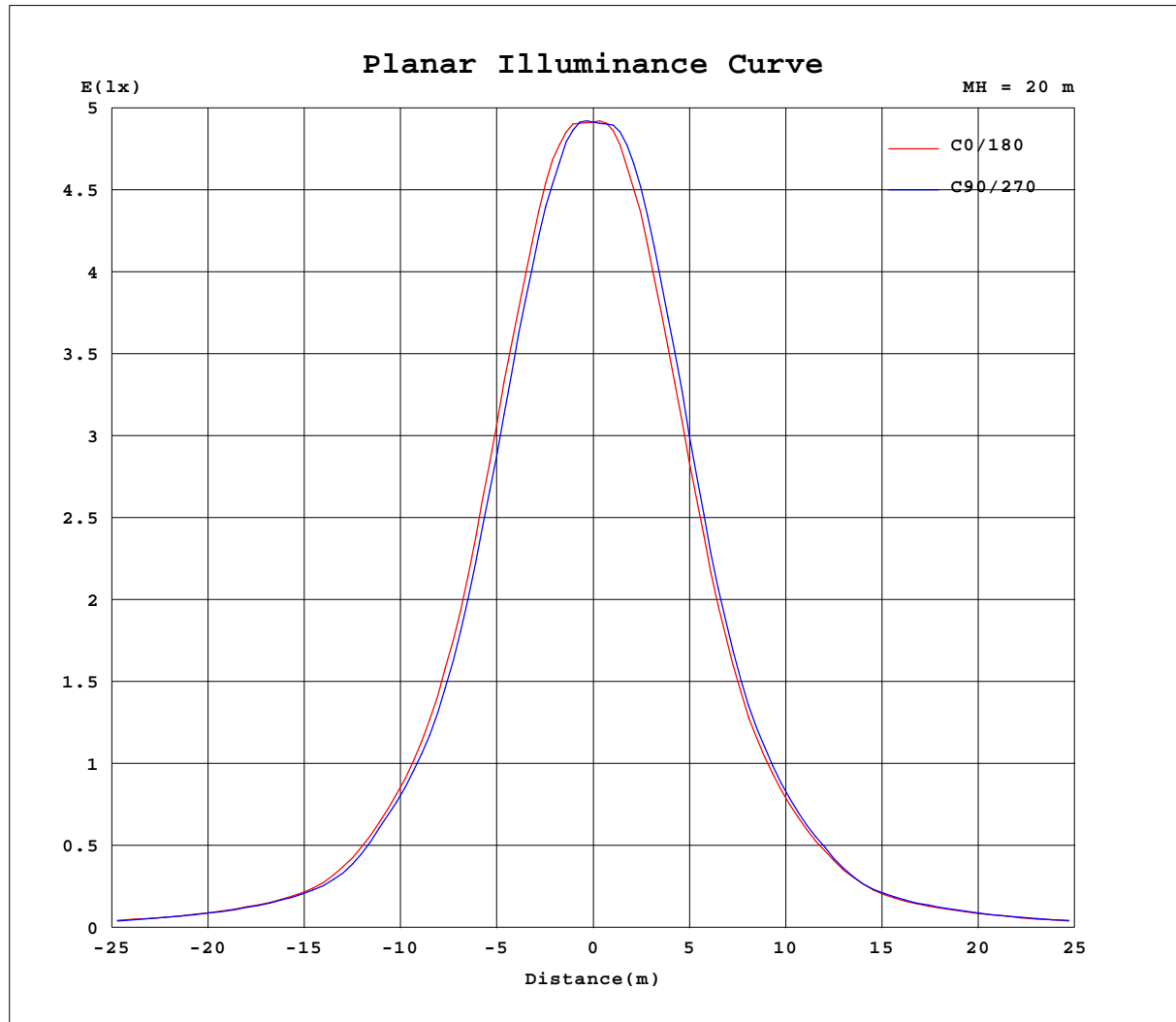
AvgL	cd/m2
L_0~180(65)av	13896
L_0~180(75)av	2827
L_0~180(85)av	619
L_90~270(65)av	12959
L_90~270(75)av	3450
L_90~270(85)av	704
L_45(65)av	13635
L_45(75)av	3044
L_45(85)av	607

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:ZHONGWENHUI
Test Date:2018-01-22

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity:65%
Test Distance:2.990m [K=1.0000]
Remarks: LAMP:CLU028-1202C4-303H5M3-F1 Ra:90
DRIVER:RMS-15-350AS 350mA
LENS:PM-1043B 30R
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: ZHONGWENHUI
 Test Date: 2018-01-22

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity: 65%
 Test Distance: 2.990m [K=1.0000]
 Remarks: LAMP: CLU028-1202C4-303H5M3-F1 Ra:90
 DRIVER: RMS-15-350AS 350mA
 LENS: PM-1043B 30R
 30minutes warm-up



RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.79V I:0.0749A P:15.417W PF:0.9366 Freq:49.99Hz Lamp Flux:1406.16x1 lm		
NAME: 1719.218-AM-WHM-BFCTF06	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:1801220250
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

Table--1

UNIT: cd

C(°) g (°)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967						
5	1932	1922	1902	1888	1891	1880	1879	1901	1922	1932	1928	1925						
10	1664	1667	1600	1601	1593	1591	1575	1589	1647	1651	1671	1661						
15	1262	1229	1163	1186	1173	1170	1163	1139	1198	1228	1233	1232						
20	847	826	776	786	788	779	774	750	805	815	838	844						
25	549	544	507	515	520	517	506	496	532	532	547	548						
30	350	344	321	325	341	337	327	324	346	345	352	353						
35	202	206	185	189	195	205	197	192	204	196	209	199						
40	141	140	133	137	140	140	133	132	136	138	142	141						
45	106	105	100.0	104	106	107	102	100	102	104	106	105						
50	80.8	79.1	74.5	76.0	76.8	77.4	74.9	75.3	76.9	78.2	80.3	80.0						
55	61.1	59.7	52.5	53.6	56.5	59.9	57.3	57.6	58.2	59.4	60.8	60.5						
60	35.5	34.9	31.1	31.9	33.2	34.7	33.2	34.7	34.7	34.9	35.6	35.5						
65	17.8	16.7	12.6	13.2	14.3	16.9	15.4	16.4	17.6	17.7	17.8	17.8						
70	4.70	4.17	3.16	3.85	3.91	4.49	3.77	4.59	5.01	5.58	4.75	4.96						
75	2.27	2.19	1.45	2.00	2.03	2.40	1.87	2.38	2.54	3.05	2.24	2.65						
80	0.39	0.38	0.39	0.41	0.40	0.40	0.36	0.35	0.40	0.43	0.40	0.35						
85	0.17	0.15	0.13	0.14	0.14	0.15	0.14	0.14	0.18	0.20	0.18	0.15						
90	0.03	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02						
95	0.04	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.02	0.03	0.02	0.03						
100	0.06	0.06	0.06	0.07	0.06	0.06	0.05	0.05	0.04	0.05	0.04	0.05						
105	0.10	0.10	0.10	0.11	0.10	0.10	0.09	0.09	0.08	0.09	0.08	0.09						
110	0.17	0.16	0.17	0.17	0.17	0.17	0.16	0.14	0.13	0.14	0.14	0.15						
115	0.25	0.24	0.25	0.25	0.25	0.25	0.23	0.22	0.20	0.21	0.22	0.22						
120	0.34	0.33	0.34	0.35	0.35	0.34	0.30	0.29	0.28	0.29	0.30	0.30						
125	0.47	0.45	0.47	0.48	0.47	0.46	0.41	0.40	0.38	0.40	0.41	0.41						
130	0.65	0.62	0.66	0.67	0.67	0.65	0.58	0.56	0.54	0.56	0.57	0.58						
135	0.92	0.90	0.96	0.96	0.96	0.93	0.84	0.81	0.78	0.80	0.83	0.83						
140	1.32	1.29	1.38	1.40	1.37	1.34	1.22	1.17	1.14	1.18	1.18	1.19						
145	1.84	1.83	1.89	1.95	1.87	1.87	1.70	1.63	1.58	1.66	1.64	1.67						
150	2.47	2.43	2.49	2.49	2.43	2.42	2.25	2.12	2.10	2.18	2.17	2.21						
155	3.02	2.95	3.07	3.03	2.95	2.80	2.66	2.47	2.59	2.68	2.68	2.63						
160	3.23	3.15	3.34	3.40	3.14	2.89	2.78	2.55	2.79	2.97	2.85	2.81						
165	3.06	3.03	3.25	3.22	3.04	2.68	2.61	2.40	2.67	2.80	2.74	2.75						
170	2.90	2.94	2.72	2.68	2.55	2.54	2.43	2.27	2.24	2.32	2.37	2.65						
175	2.58	2.64	2.44	2.31	2.38	2.24	2.18	2.07	2.16	2.06	2.17	2.44						
180	2.40	2.40	2.37	2.32	2.33	2.40	2.40	2.40	2.37	2.31	2.33	2.40						

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:ZHONGWENHUI
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g Range: 0 - 180DEG
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