

### Luminaire Photograph



Light Output Ratio:	79.8%	
Luminaire Power:	11.1 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.80	fine grid method.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2023-8-4

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity: 65.0%  
Test Distance: 3.160m [K=1.0000]  
Remarks: LAMP: CMA1306-0000-000N0U0A30G Ra:90  
LENS: PM-1084C 50R  
DRIVER: 9290 028 088 250mA  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

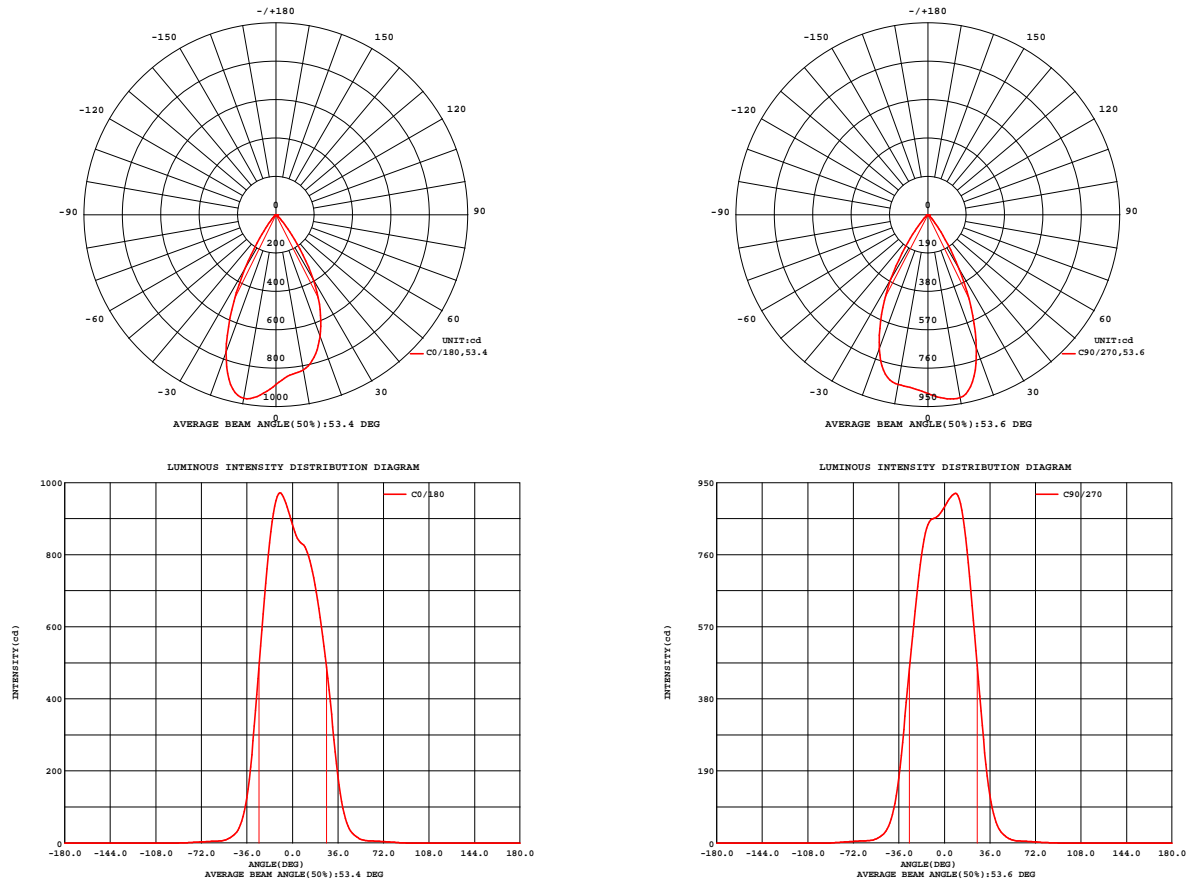


Fig. C0/C180

Fig. C90/C270

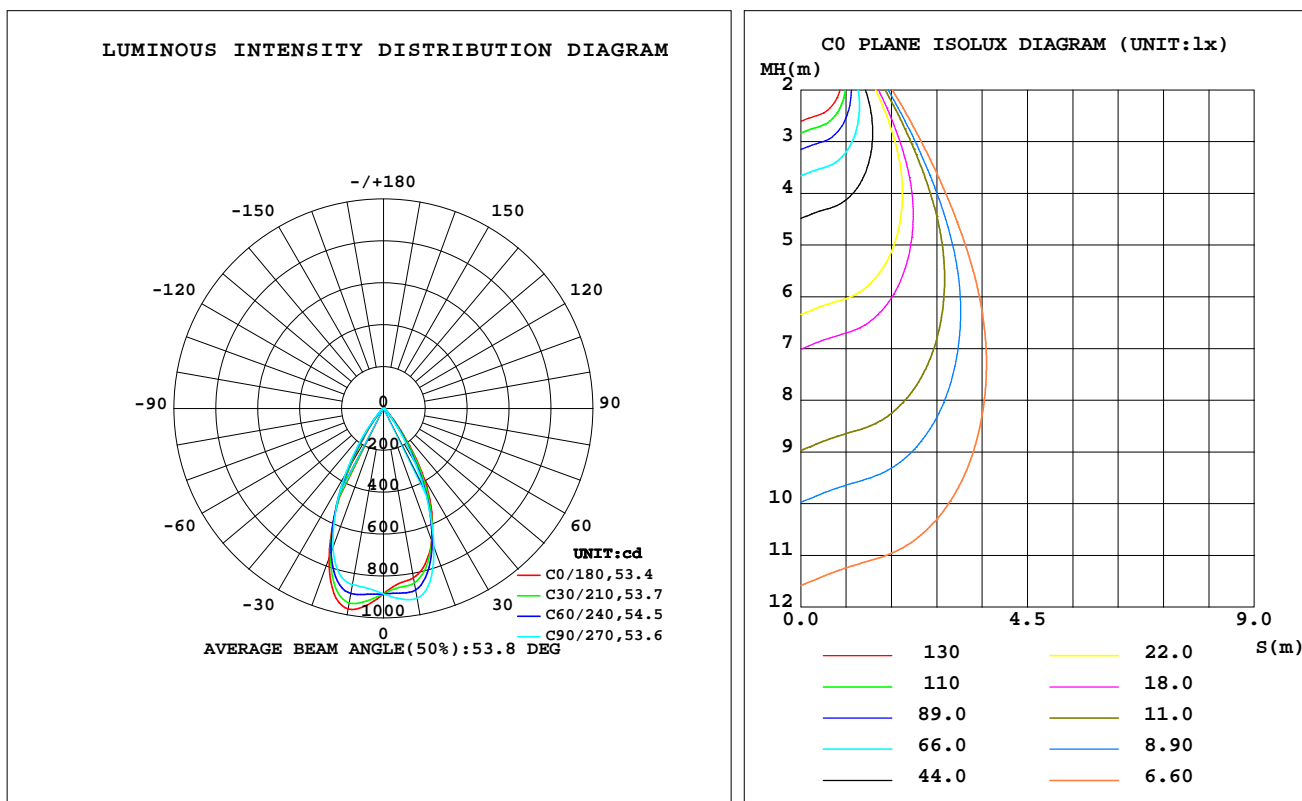
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
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30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.412-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040979
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 64.50 lm/W			
MODEL	CREE	I <sub>max</sub> (cd)	977.7	S/MH(C0/180)	0.81
NOMINAL POWER(W)	11	LOR(%)	79.8	S/MH(C90/270)	0.84
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	715.85	UP,DN(C0-180)	0.0,39.2
NOMINAL FLUX(lm)	896.707	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,40.6
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220	down(%)	79.8	CIBSE SHR MAX	0.80



C Range: 0 - 360DEG  
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Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-8-4

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Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
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## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	821.3	862.9	919.6	966.8	971.4	919.6	853.1	818.8	0- 10	85.08	85.08	11.9,9.49
20	673.8	677.2	702.6	740.4	760.8	736.7	705.4	669.0	10- 20	230.8	315.8	44.1,35.2
30	392.0	351.6	309.4	300.6	324.4	346.1	370.7	377.7	20- 30	240.4	556.2	77.7,62
40	96.45	80.14	65.00	50.83	60.89	74.58	89.46	95.27	30- 40	115.5	671.7	93.8,74.9
50	18.88	16.27	13.69	9.200	12.63	15.57	18.02	19.07	40- 50	27.56	699.3	97.7,78
60	6.057	5.676	5.105	4.985	5.008	5.568	6.164	6.363	50- 60	7.840	707.1	98.8,78.9
70	4.270	3.889	3.271	3.116	3.352	3.984	4.609	4.694	60- 70	4.759	711.9	99.4,79.4
80	2.166	1.818	1.290	1.211	1.397	1.933	2.422	2.644	70- 80	3.051	714.9	99.9,79.7
90	0	0	0	0	0	0	0	0	80- 90	0.9211	715.9	100,79.8
100	0	0	0	0	0	0	0	0	90-100	0	715.9	100,79.8
110	0	0	0	0	0	0	0	0	100-110	0	715.9	100,79.8
120	0	0	0	0	0	0	0	0	110-120	0	715.9	100,79.8
130	0	0	0	0	0	0	0	0	120-130	0	715.9	100,79.8
140	0	0	0	0	0	0	0	0	130-140	0	715.9	100,79.8
150	0	0	0	0	0	0	0	0	140-150	0	715.9	100,79.8
160	0	0	0	0	0	0	0	0	150-160	0	715.9	100,79.8
170	0	0	0	0	0	0	0	0	160-170	0	715.9	100,79.8
180	0	0	0	0	0	0	0	0	170-180	0	715.9	100,79.8
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
 Humidity:65.0%  
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 DRIVER: 9290 028 088 250mA  
 30minutes warm-up

### LUMINANCE LIMITATION CURVES

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz  
Lamp Flux:896.707x1 lm

NAME: 2214.412-1-ACOT-97

TYPE:

WEIGHT:

SPEC.: 3000K

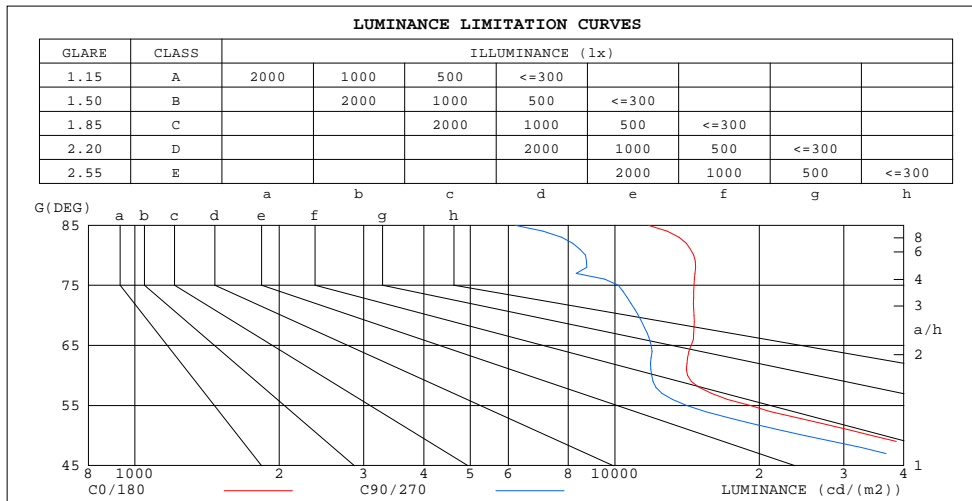
DIM.:

SERIAL No.: 2308040979

MFR.: RISE

SUR.: 0.000854865m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	11758	6211
80	14598	8690
75	14620	10167
70	14610	11191
65	14422	11901
60	14175	11945
55	19181	14138
50	34370	24911
45	65599	47042

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## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

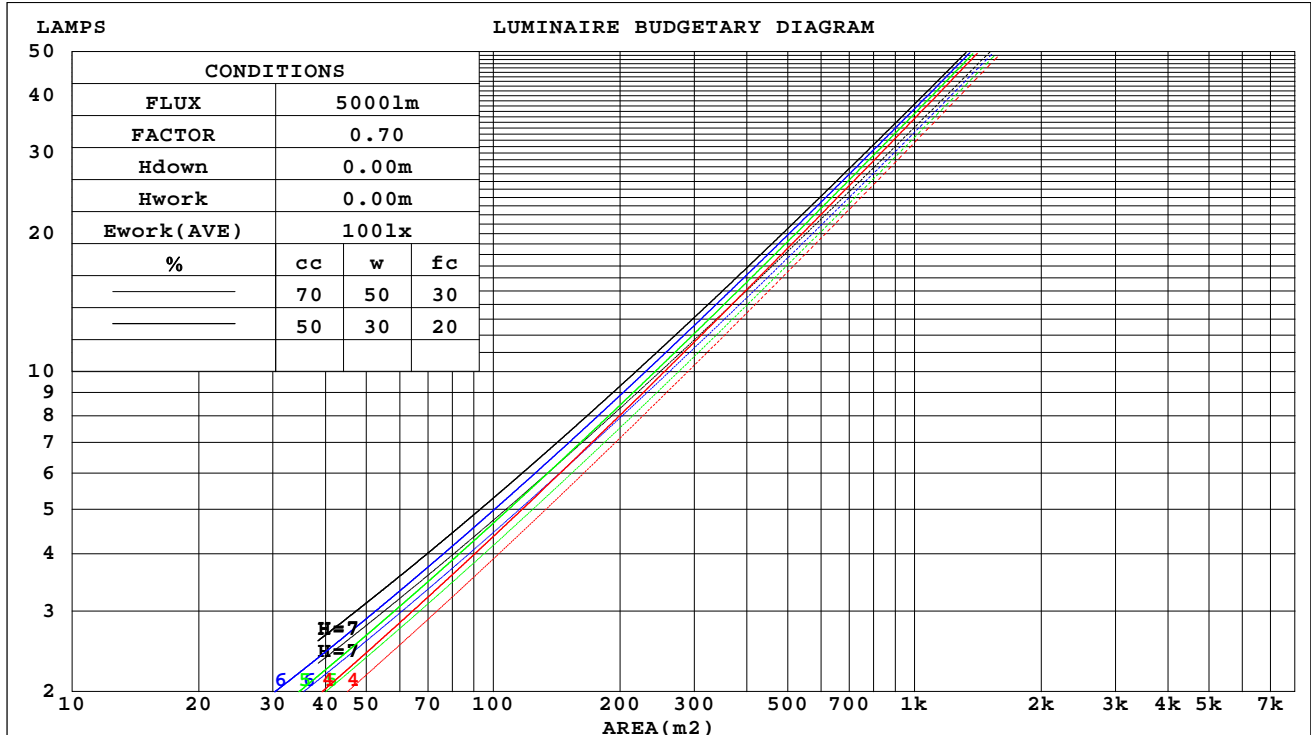
SERIAL No.: 2308040979

MFR.: RISE

SUR.: 0.000854865m2

Shielding Angle:

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



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### WEC AND CCEC

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SPEC.: 3000K	DIM.:	SERIAL No.: 2308040979
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

cc	80%			70%			50%			30%			10%			0	
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
fc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.140	.080	.025	.134	.077	.024	.124	.071	.023	.115	.066	.021	.107	.062	.020		
2.0	.133	.073	.022	.128	.071	.022	.120	.067	.021	.112	.063	.020	.105	.059	.019		
3.0	.126	.067	.020	.122	.065	.020	.115	.062	.019	.108	.059	.018	.102	.057	.018		
4.0	.120	.062	.018	.116	.061	.018	.110	.058	.017	.104	.056	.017	.099	.054	.016		
5.0	.114	.058	.017	.111	.057	.017	.106	.055	.016	.101	.053	.016	.096	.051	.015		
6.0	.109	.054	.016	.106	.054	.015	.101	.052	.015	.097	.050	.015	.093	.049	.015		
7.0	.104	.051	.015	.101	.051	.014	.097	.049	.014	.093	.048	.014	.090	.047	.014		
8.0	.099	.048	.014	.097	.048	.014	.094	.047	.013	.090	.046	.013	.087	.045	.013		
9.0	.095	.046	.013	.093	.045	.013	.090	.044	.013	.087	.044	.012	.084	.043	.012		
10.0	.091	.044	.012	.090	.043	.012	.087	.042	.012	.084	.042	.012	.081	.041	.012		

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.152	.152	.152	.130	.130	.130	.089	.089	.089	.051	.051	.051	.016	.016	.016	
1.0	.137	.126	.116	.117	.108	.100	.080	.074	.069	.046	.043	.040	.015	.014	.013	
2.0	.124	.106	.090	.106	.091	.078	.073	.063	.054	.042	.037	.032	.013	.012	.010	
3.0	.114	.091	.072	.098	.078	.062	.067	.054	.044	.039	.032	.026	.012	.010	.008	
4.0	.106	.079	.058	.091	.068	.051	.062	.047	.036	.036	.028	.021	.012	.009	.007	
5.0	.099	.070	.048	.085	.060	.042	.058	.042	.030	.034	.025	.018	.011	.008	.006	
6.0	.093	.062	.040	.080	.054	.035	.055	.038	.025	.032	.022	.015	.010	.007	.005	
7.0	.087	.056	.034	.075	.049	.030	.052	.034	.021	.030	.020	.013	.010	.007	.004	
8.0	.083	.051	.029	.071	.044	.025	.049	.031	.018	.029	.018	.011	.009	.006	.004	
9.0	.079	.047	.025	.068	.041	.022	.047	.029	.016	.027	.017	.009	.009	.006	.003	
10.0	.075	.043	.022	.065	.038	.019	.045	.026	.014	.026	.016	.008	.008	.005	.003	

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Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90  
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30minutes warm-up

## UGR(Unified Glare Rating) Table

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm										
NAME: 2214.412-1-ACOT-97					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2308040979		
MFR.: RISE					SUR.: 0.000854865m2			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	23.4	24.3	23.6	24.5	24.7	21.9	22.8	22.1	23.0	23.1
3H	23.4	24.2	23.6	24.4	24.6	21.8	22.7	22.1	22.9	23.1
4H	23.4	24.2	23.6	24.4	24.6	21.8	22.6	22.1	22.8	23.1
6H	23.4	24.1	23.6	24.3	24.6	21.8	22.5	22.1	22.8	23.0
8H	23.3	24.1	23.7	24.3	24.6	21.8	22.5	22.1	22.7	23.0
12H	23.3	24.0	23.6	24.3	24.6	21.7	22.4	22.0	22.7	23.0
4H 2H	23.2	24.0	23.5	24.2	24.5	21.7	22.5	22.0	22.7	22.9
3H	23.2	23.9	23.5	24.2	24.4	21.7	22.4	22.0	22.7	22.9
4H	23.2	23.9	23.6	24.2	24.5	21.7	22.4	22.1	22.7	23.0
6H	23.3	23.8	23.6	24.1	24.5	21.7	22.3	22.1	22.6	23.0
8H	23.3	23.8	23.7	24.1	24.5	21.7	22.2	22.1	22.6	23.0
12H	23.3	23.7	23.7	24.1	24.5	21.7	22.2	22.1	22.5	22.9
8H 4H	23.1	23.6	23.5	24.0	24.4	21.7	22.2	22.1	22.5	22.9
6H	23.2	23.6	23.6	24.0	24.4	21.7	22.1	22.1	22.5	22.9
8H	23.2	23.6	23.7	24.0	24.5	21.7	22.1	22.2	22.5	23.0
12H	23.3	23.6	23.7	24.0	24.5	21.7	22.0	22.2	22.5	23.0
12H 4H	23.1	23.6	23.5	23.9	24.3	21.6	22.1	22.0	22.5	22.9
6H	23.2	23.5	23.6	24.0	24.4	21.7	22.1	22.1	22.5	22.9
8H	23.2	23.5	23.7	24.0	24.4	21.7	22.0	22.2	22.5	23.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.3 / - 4.7					+ 2.5 / - 4.2				
1.5H	+ 5.4 / - 4.6					+ 4.5 / - 4.1				
2.0H	+ 4.0 / - 1.6					+ 3.2 / - 1.5				

CIE Pub.117, 896.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.4)  
Area: 0.000854865 m2

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Humidity:65.0%  
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### UTILIZATION FACTORS TABLE

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SPEC.: 3000K	DIM.:	SERIAL No.: 2308040979
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

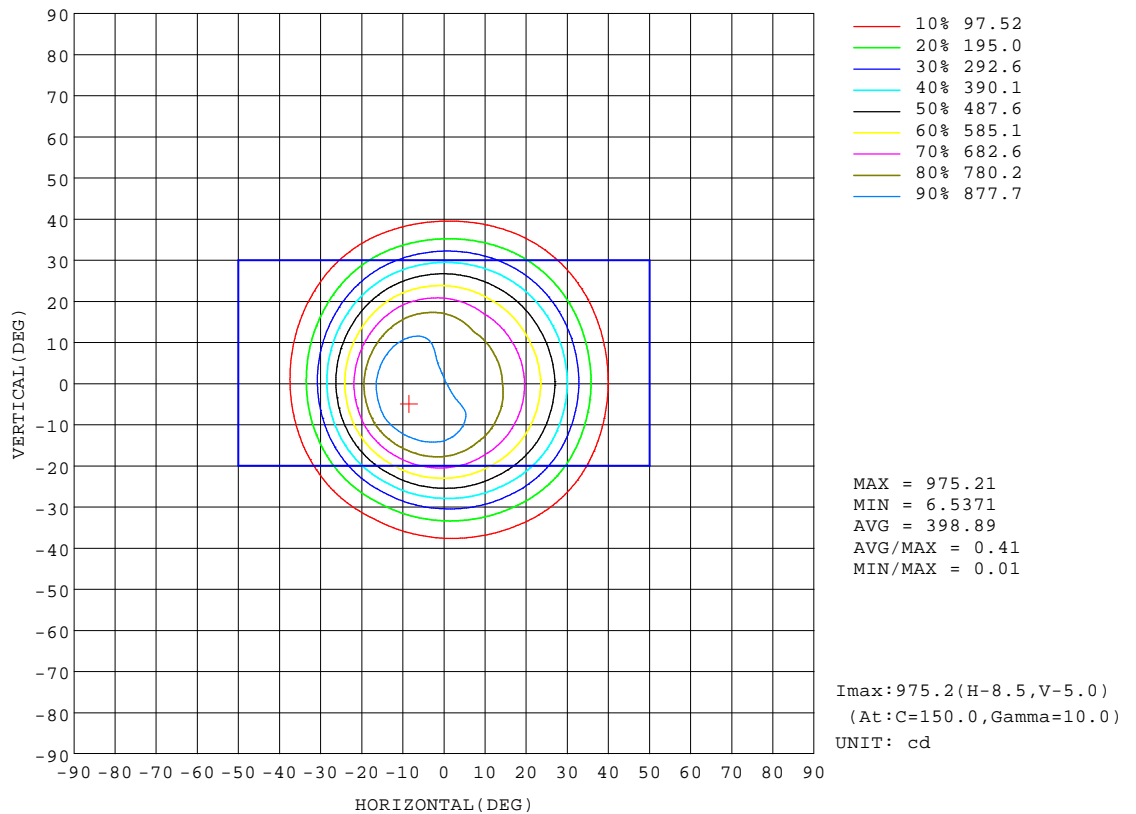
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	70	65	62	70	65	62	69	65	62	59
0.80	76	71	68	75	71	68	74	71	68	65
1.00	79	75	72	79	75	72	77	74	71	68
1.25	82	78	76	82	78	75	80	77	75	71
1.50	85	81	78	84	80	78	82	79	77	73
2.00	87	83	81	86	83	80	83	81	79	75
2.50	88	85	83	87	84	82	84	82	80	76
3.00	89	87	84	88	85	84	85	83	82	77
4.00	91	89	87	89	87	86	86	85	84	78
5.00	92	90	89	90	89	87	87	86	85	79
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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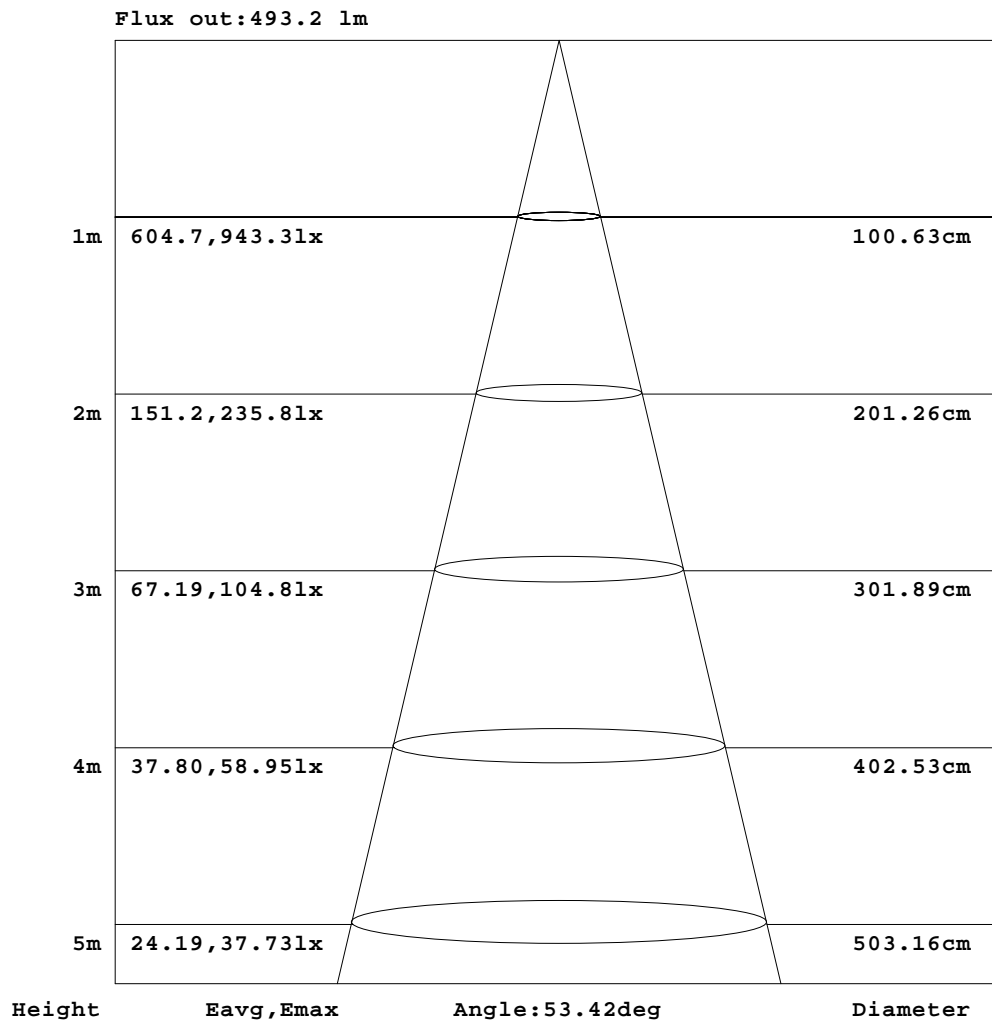


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## AAI Figure

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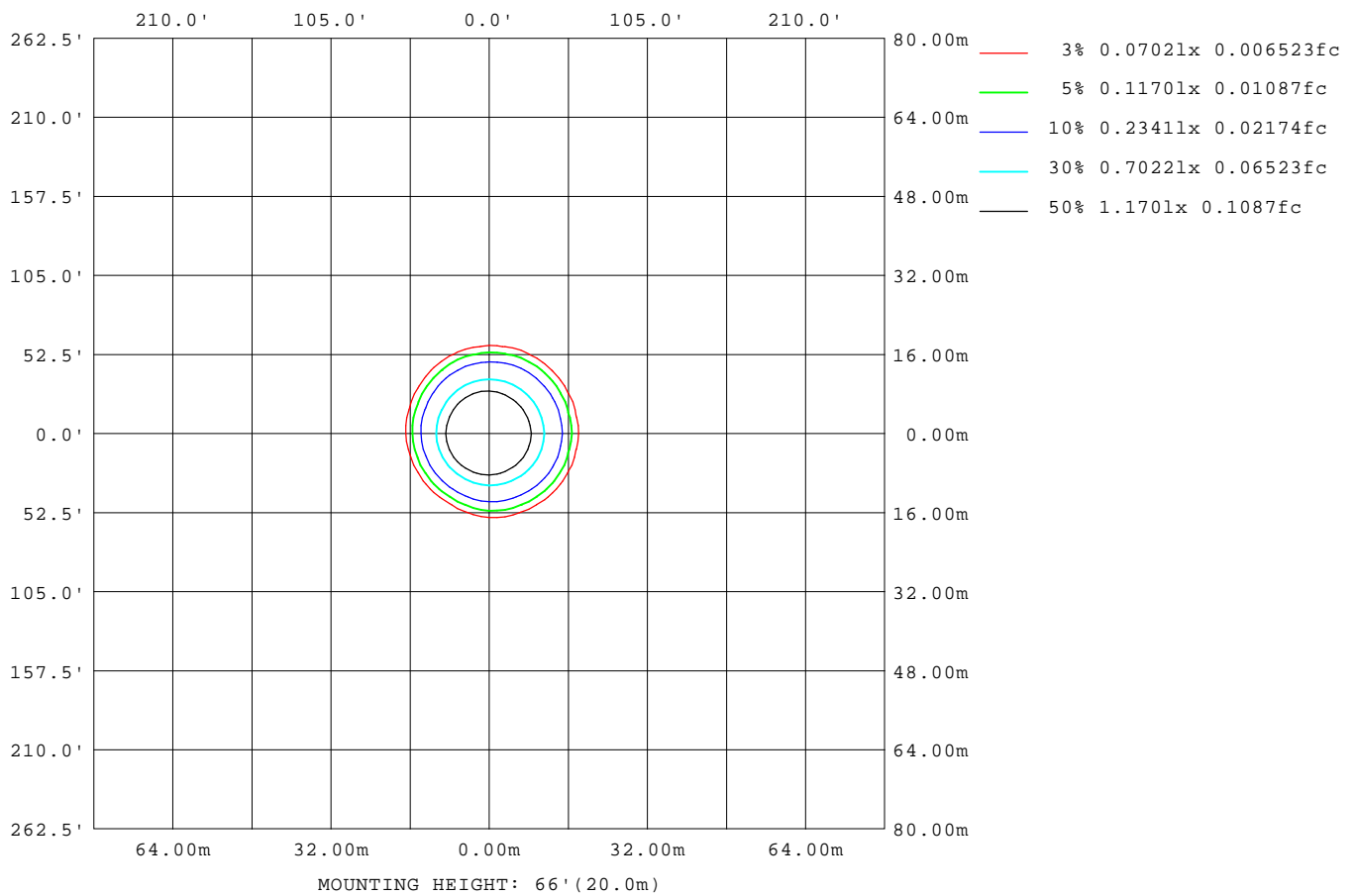
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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30minutes warm-up

## ISOLUX DIAGRAM

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.412-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040979
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3 °C  
Operators:zoe  
Test Date:2023-8-4

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90  
LENS: PM-1084C 50R  
DRIVER: 9290 028 088 250mA  
30minutes warm-up

## LED Avg.L Report

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.412-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040979
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

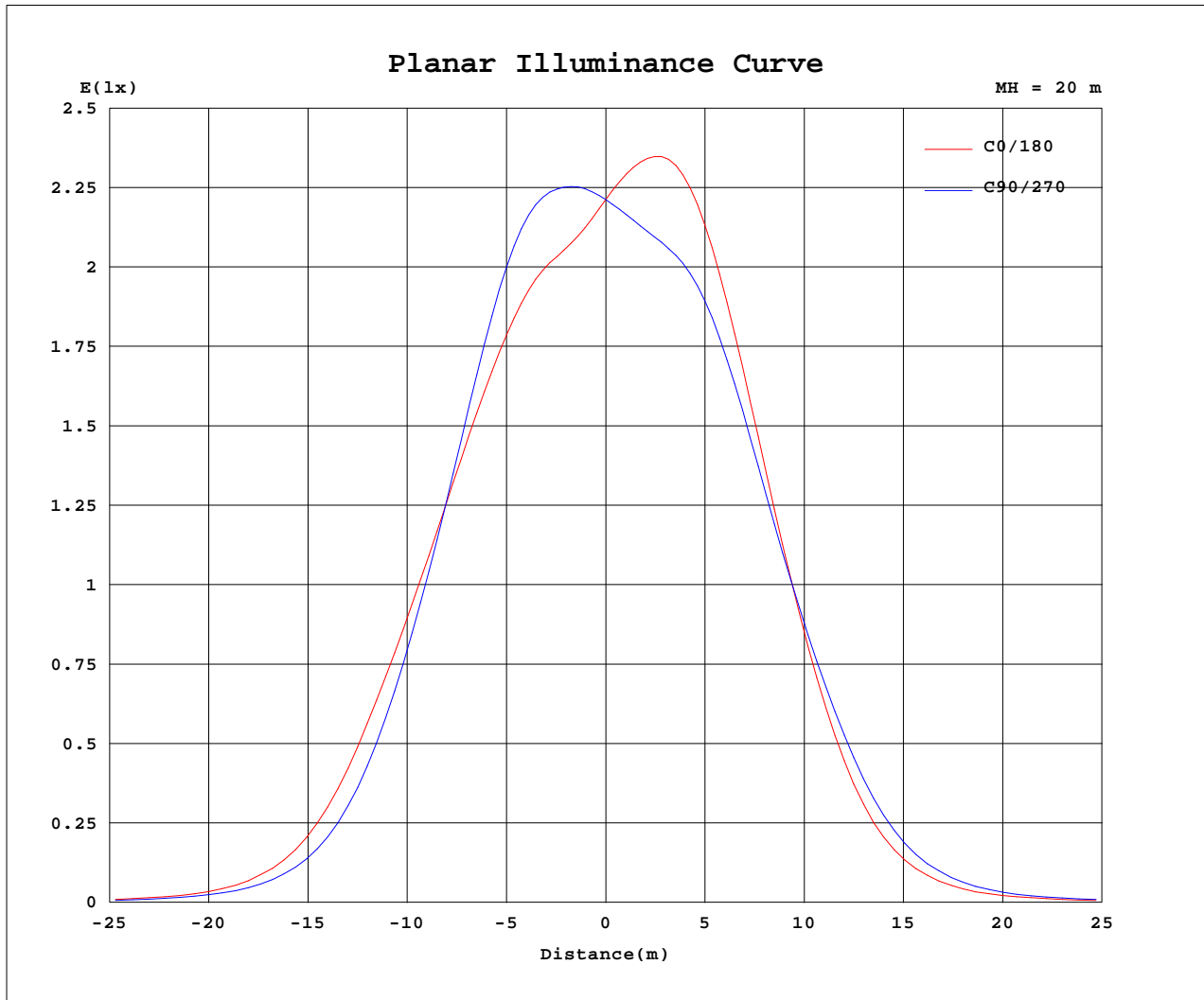
AvgL	cd/m2
L_0~180(65)av	13206
L_0~180(75)av	12677
L_0~180(85)av	7870
L_90~270(65)av	13459
L_90~270(75)av	13216
L_90~270(85)av	10576
L_45(65)av	13456
L_45(75)av	13208
L_45(85)av	10335

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-8-4

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90  
LENS: PM-1084C 50R  
DRIVER: 9290 028 088 250mA  
30minutes warm-up

## Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3 °C  
 Operators: zoe  
 Test Date: 2023-8-4

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
 Humidity: 65.0%  
 Test Distance: 3.160m [K=1.0000]  
 Remarks: LAMP: CMA1306-0000-000N0U0A30G Ra:90  
 LENS: PM-1084C 50R  
 DRIVER: 9290 028 088 250mA  
 30minutes warm-up

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.412-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040979
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	885	885	885	885	885	885	885	885	885	885	885	885						
5	840	858	884	912	937	949	943	921	890	861	842	834						
10	821	846	880	920	956	978	971	943	897	853	823	814						
15	769	785	812	856	886	922	915	886	853	817	772	770						
20	674	674	680	703	723	758	761	741	732	705	670	668						
25	546	534	513	507	507	533	547	542	552	545	532	532						
30	392	370	333	309	293	308	324	334	358	371	375	381						
35	220	201	168	151	131	138	150	161	186	200	214	216						
40	96.5	87.2	73.1	65.0	48.6	53.1	60.9	67.8	81.3	89.5	95.2	95.3						
45	39.6	36.1	31.2	28.4	17.9	21.4	25.8	28.6	34.2	37.1	39.9	39.3						
50	18.9	17.4	15.1	13.7	8.05	10.3	12.6	14.3	16.9	18.0	19.3	18.8						
55	9.40	8.58	7.52	6.93	5.77	6.24	6.65	7.50	8.56	9.36	9.86	9.68						
60	6.06	5.88	5.47	5.10	4.99	4.98	5.01	5.37	5.77	6.16	6.46	6.27						
65	5.21	5.09	4.72	4.30	4.09	4.15	4.33	4.71	5.06	5.43	5.56	5.47						
70	4.27	4.06	3.71	3.27	3.08	3.15	3.35	3.76	4.21	4.61	4.77	4.62						
75	3.23	2.98	2.69	2.25	2.10	2.17	2.38	2.75	3.24	3.60	3.78	3.62						
80	2.17	1.92	1.71	1.29	1.19	1.23	1.40	1.73	2.14	2.42	2.69	2.60						
85	0.88	0.72	0.66	0.46	0.41	0.36	0.30	0.39	0.85	1.11	1.38	1.30						
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						
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-8-4

Range: 0 - 180DEG  
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