

### Luminaire Photograph



Light Output Ratio:	90.1%	
Luminaire Power:	11.74 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: 2024-4-3

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: BXRE-40G10TH-A-83 Ra: 90  
LENS: PM-0132C 60R  
DRIVER: SC42W300-1050CG-4W 300mA  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

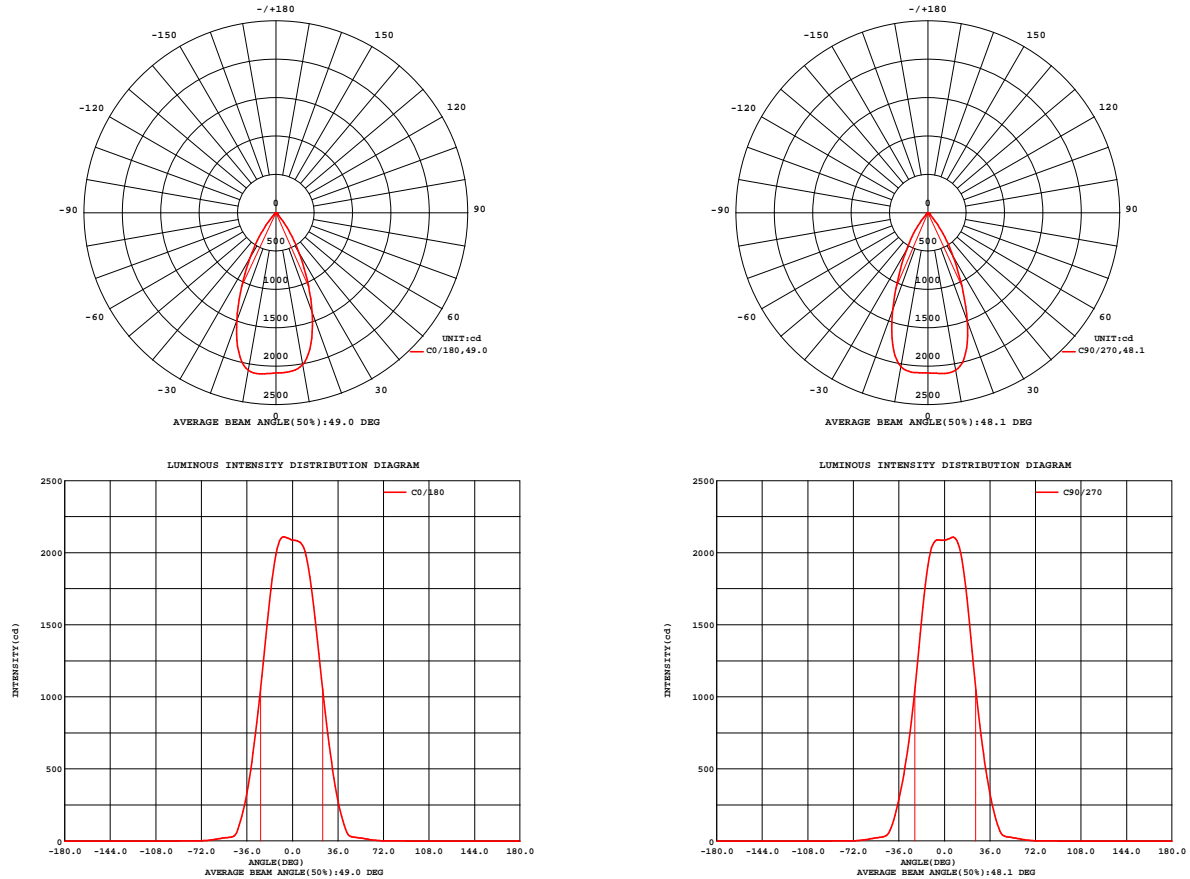


Fig. C0/C180

Fig. C90/C270

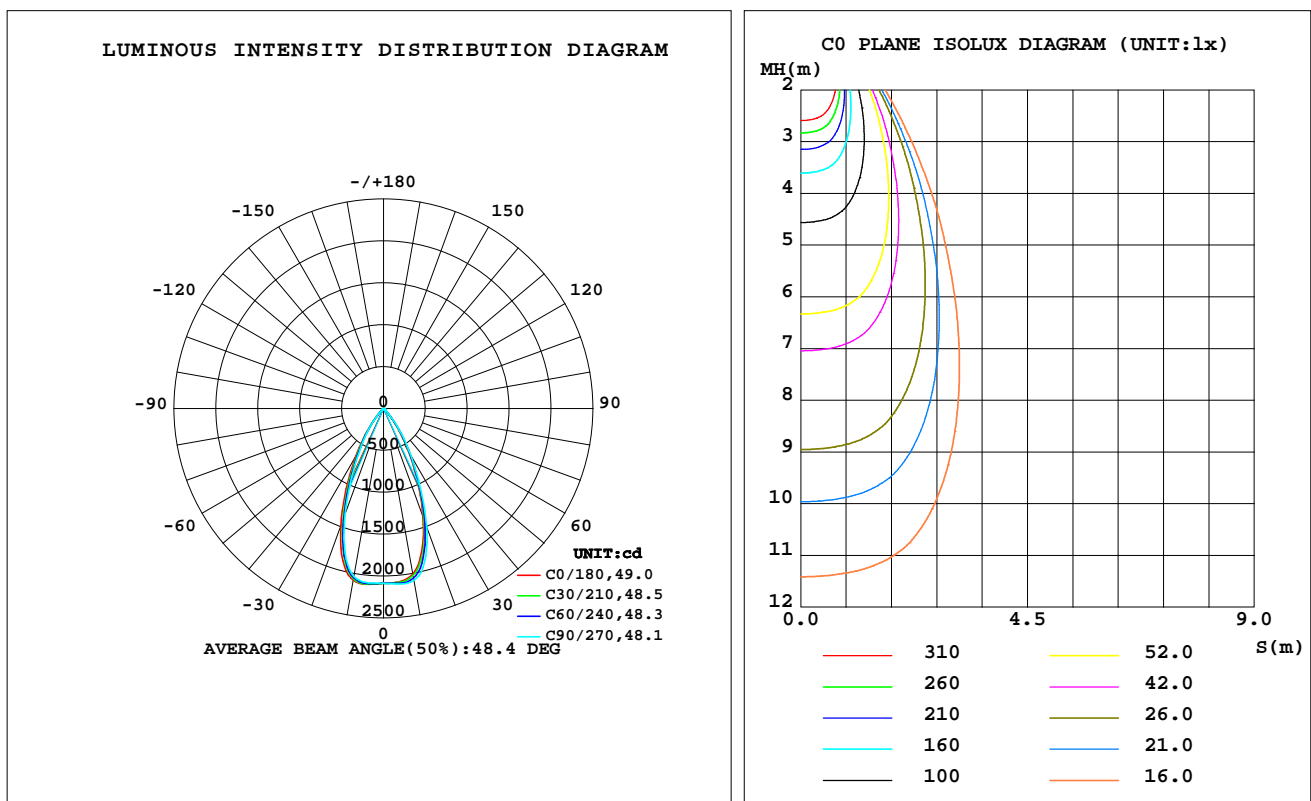
C Range: 0 - 360DEG  
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Temperature: 25.3 °C  
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DRIVER: SC42W300-1050CG-4W 300mA  
30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.19V I:0.0616A P:11.743W PF:0.8610 Freq:49.99Hz Lamp Flux:1608.69x1 lm		
NAME: 2319.209-UA-300-HE	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 2404030256
MFR.: RISE	SUR.: 0.002826m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 123.45 lm/W			
MODEL	Brideglux	Imax(cd)	2114	S/MH(C0/180)	0.77
NOMINAL POWER(W)	12	LOR(%)	90.1	S/MH(C90/270)	0.73
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1449.7	UP,DN(C0-180)	0.0,46.1
NOMINAL FLUX(lm)	1608.69	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,44.0
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220	down(%)	90.1	CIBSE SHR MAX	0.80



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Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
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30minutes warm-up



## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	2008	2040	2082	2080	2082	2059	2035	2015	0- 10	198.7	198.7	13.7,12.4
20	1382	1430	1507	1520	1495	1407	1342	1360	10- 20	499.8	698.5	48.2,43.4
30	607.6	641.6	664.9	684.4	676.6	611.1	564.8	578.4	20- 30	453.9	1152	79.5,71.6
40	140.2	160.9	177.2	172.3	169.7	160.4	145.8	136.0	30- 40	225.4	1378	95,85.6
50	24.79	26.63	28.08	26.81	25.01	26.85	26.30	25.23	40- 50	46.57	1424	98.3,88.5
60	12.10	13.20	14.33	14.19	13.07	12.91	12.52	12.14	50- 60	18.12	1443	99.5,89.7
70	2.138	2.354	2.668	2.752	2.319	2.223	2.065	2.098	60- 70	6.446	1449	100,90.1
80	0.0366	0.0275	0.0323	0.0277	0.0310	0.0216	0.0283	0.0197	70- 80	0.6996	1450	100,90.1
90	0	0	0	0	0	0	0	0	80- 90	0.0189	1450	100,90.1
100	0	0	0	0	0	0	0	0	90-100	0	1450	100,90.1
110	0	0	0	0	0	0	0	0	100-110	0	1450	100,90.1
120	0	0	0	0	0	0	0	0	110-120	0	1450	100,90.1
130	0	0	0	0	0	0	0	0	120-130	0	1450	100,90.1
140	0	0	0	0	0	0	0	0	130-140	0	1450	100,90.1
150	0	0	0	0	0	0	0	0	140-150	0	1450	100,90.1
160	0	0	0	0	0	0	0	0	150-160	0	1450	100,90.1
170	0	0	0	0	0	0	0	0	160-170	0	1450	100,90.1
180	0	0	0	0	0	0	0	0	170-180	0	1450	100,90.1
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Temperature:25.3℃  
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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:BXRE-40G10TH-A-83 Ra:90  
LENS:PM-0132C 60R  
DRIVER:SC42W300-1050CG-4W 300mA  
30minutes warm-up

### LUMINANCE LIMITATION CURVES

Test:U:220.19V I:0.0616A P:11.743W PF:0.8610 Freq:49.99Hz  
Lamp Flux:1608.69x1 lm

NAME: 2319.209-UA-300-HE

TYPE:

WEIGHT:

SPEC.: 4000K

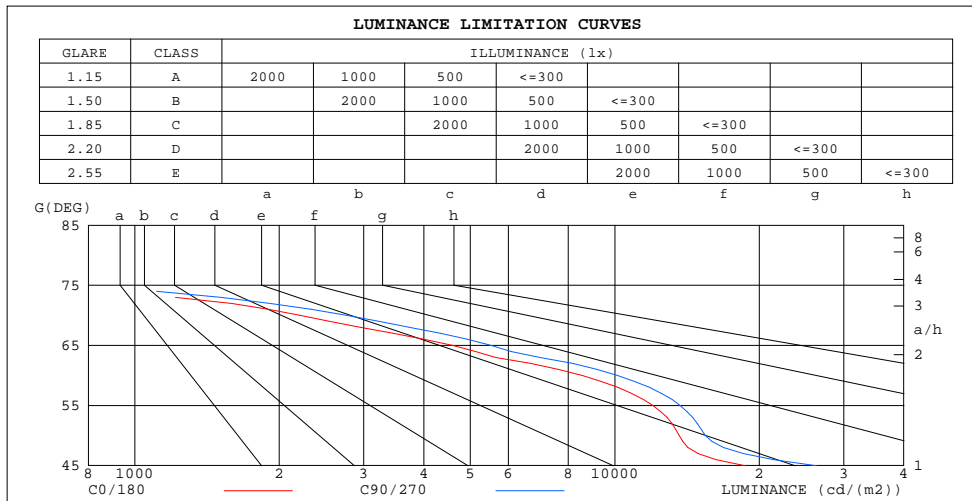
DIM.:

SERIAL No.: 2404030256

MFR.: RISE

SUR.: 0.002826m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	106	91
80	75	66
75	188	671
70	2210	2758
65	4593	5524
60	8552	10131
55	12010	13683
50	13631	15446
45	18704	26341

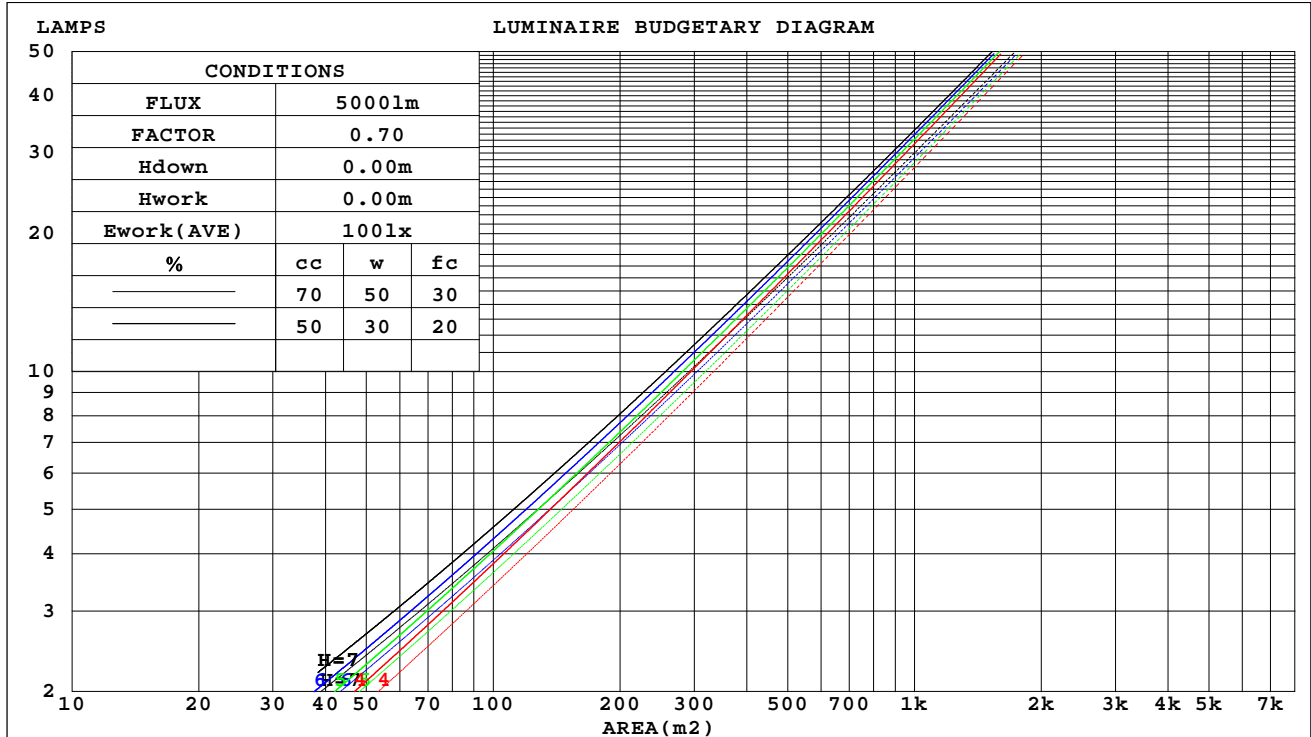
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## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 4000K	DIM.:	SERIAL No.: 2404030256
MFR.: RISE	SUR.: 0.002826m2	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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30minutes warm-up

### WEC AND CCEC

Test:U:220.19V I:0.0616A P:11.743W PF:0.8610 Freq:49.99Hz Lamp Flux:1608.69x1 lm		
NAME: 2319.209-UA-300-HE	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 2404030256
MFR.: RISE	SUR.: 0.002826m2	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	.152	.086	.027	.146	.083	.026	.134	.077	.025	.124	.071	.023	.114	.066	.021		
2.0	.144	.079	.024	.139	.077	.024	.130	.072	.022	.121	.068	.021	.113	.064	.020		
3.0	.137	.073	.022	.133	.071	.021	.125	.068	.021	.118	.064	.020	.111	.061	.019		
4.0	.131	.068	.020	.127	.066	.020	.120	.064	.019	.114	.061	.018	.108	.058	.018		
5.0	.124	.063	.018	.121	.062	.018	.115	.060	.018	.110	.058	.017	.104	.056	.017		
6.0	.119	.059	.017	.116	.059	.017	.111	.057	.016	.106	.055	.016	.101	.053	.016		
7.0	.113	.056	.016	.111	.055	.016	.106	.054	.015	.102	.052	.015	.098	.051	.015		
8.0	.109	.053	.015	.106	.052	.015	.102	.051	.015	.098	.050	.014	.095	.049	.014		
9.0	.104	.050	.014	.102	.050	.014	.098	.049	.014	.095	.048	.014	.092	.047	.013		
10.0	.100	.048	.013	.098	.047	.013	.095	.046	.013	.092	.046	.013	.089	.045	.013		

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	.172	.172	.172	.147	.147	.147	.100	.100	.100	.058	.058	.058	.018	.018	.018	
1.0	.154	.142	.131	.131	.122	.113	.090	.084	.078	.052	.048	.045	.017	.016	.015	
2.0	.139	.119	.103	.119	.103	.089	.082	.071	.062	.047	.041	.036	.015	.013	.012	
3.0	.128	.102	.082	.110	.088	.071	.075	.061	.050	.043	.036	.029	.014	.012	.010	
4.0	.118	.089	.067	.101	.077	.058	.070	.054	.041	.040	.031	.024	.013	.010	.008	
5.0	.110	.078	.055	.095	.068	.048	.065	.047	.034	.038	.028	.020	.012	.009	.007	
6.0	.103	.070	.046	.089	.060	.040	.061	.042	.028	.035	.025	.017	.011	.008	.006	
7.0	.097	.063	.039	.084	.055	.034	.058	.038	.024	.034	.023	.014	.011	.007	.005	
8.0	.092	.057	.033	.079	.050	.029	.055	.035	.021	.032	.021	.012	.010	.007	.004	
9.0	.087	.052	.029	.075	.046	.025	.052	.032	.018	.030	.019	.011	.010	.006	.004	
10.0	.083	.048	.025	.072	.042	.022	.050	.030	.016	.029	.018	.009	.009	.006	.003	

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30minutes warm-up

## UGR(Unified Glare Rating) Table

Test:U:220.19V I:0.0616A P:11.743W PF:0.8610 Freq:49.99Hz Lamp Flux:1608.69x1 lm										
NAME: 2319.209-UA-300-HE					TYPE:			WEIGHT:		
SPEC.: 4000K					DIM.:			SERIAL No.: 2404030256		
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	18.2	19.1	18.4	19.2	19.4	18.7	19.6	19.0	19.8	19.9
3H	18.0	18.8	18.3	19.0	19.2	18.6	19.4	18.9	19.6	19.8
4H	17.9	18.7	18.2	18.9	19.2	18.5	19.3	18.8	19.5	19.7
6H	17.9	18.6	18.2	18.8	19.1	18.4	19.1	18.7	19.4	19.6
8H	17.8	18.5	18.1	18.8	19.0	18.4	19.1	18.7	19.3	19.6
12H	17.8	18.4	18.1	18.7	19.0	18.3	19.0	18.7	19.3	19.5
4H 2H	18.0	18.7	18.2	19.0	19.2	18.5	19.3	18.8	19.5	19.7
3H	17.8	18.5	18.1	18.8	19.0	18.4	19.0	18.7	19.3	19.6
4H	17.7	18.3	18.1	18.6	18.9	18.3	18.9	18.6	19.2	19.5
6H	17.6	18.2	18.0	18.5	18.8	18.2	18.7	18.6	19.1	19.4
8H	17.6	18.1	18.0	18.4	18.8	18.1	18.6	18.5	19.0	19.3
12H	17.5	18.0	17.9	18.3	18.7	18.1	18.5	18.5	18.9	19.3
8H 4H	17.6	18.1	18.0	18.4	18.8	18.1	18.6	18.5	19.0	19.4
6H	17.5	17.9	17.9	18.3	18.7	18.0	18.4	18.5	18.8	19.2
8H	17.4	17.8	17.9	18.2	18.6	18.0	18.3	18.4	18.8	19.2
12H	17.4	17.7	17.8	18.1	18.6	17.9	18.2	18.4	18.7	19.1
12H 4H	17.5	18.0	17.9	18.4	18.7	18.1	18.5	18.5	18.9	19.3
6H	17.4	17.8	17.9	18.2	18.6	18.0	18.3	18.4	18.8	19.2
8H	17.4	17.7	17.8	18.1	18.6	17.9	18.2	18.4	18.7	19.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.3 / - 7.5					+ 3.6 / - 7.6				
1.5H	+ 5.7 / - 5.7					+ 6.0 / - 6.5				
2.0H	+ 2.1 / - 3.8					+ 3.7 / - 4.1				

CIE Pub.117, 1609 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.7)  
Area: 0.002826 m2

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Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
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30minutes warm-up



### UTILIZATION FACTORS TABLE

Test:U:220.19V I:0.0616A P:11.743W PF:0.8610 Freq:49.99Hz Lamp Flux:1608.69x1 lm		
NAME: 2319.209-UA-300-HE	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 2404030256
MFR.: RISE	SUR.: 0.002826m2	Shielding Angle:

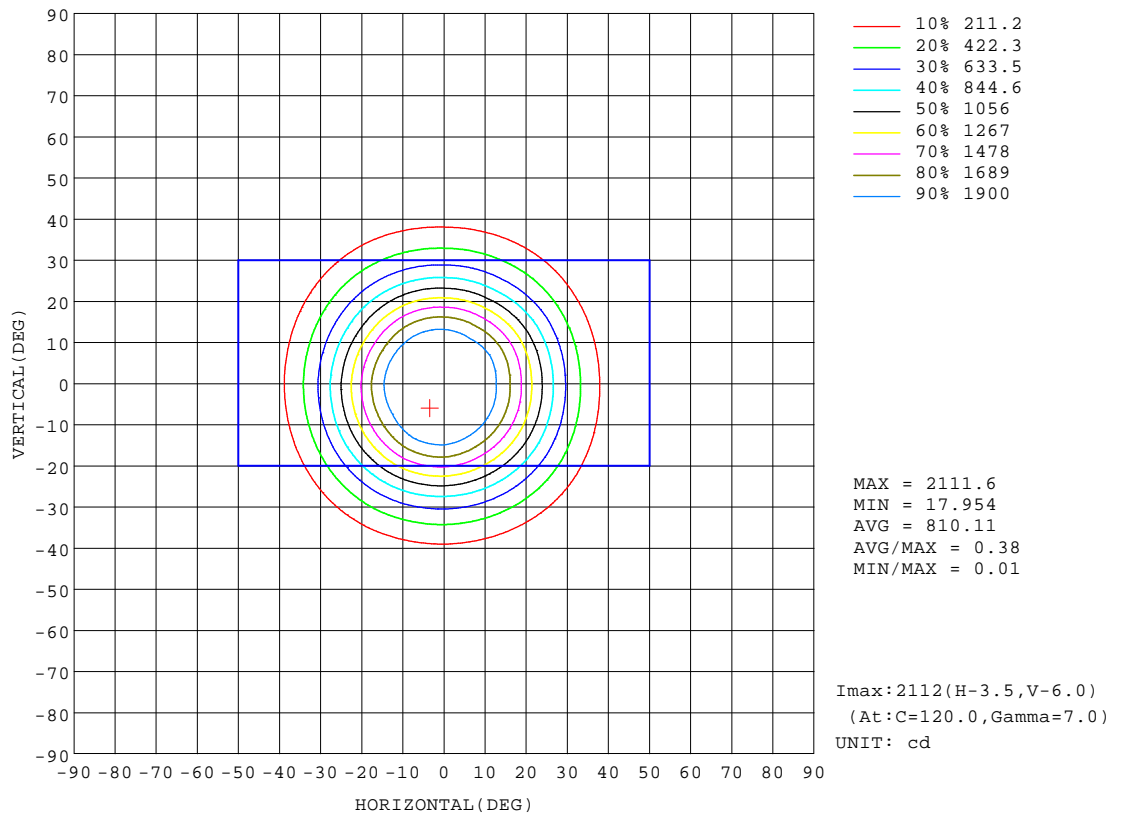
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	80	74	71	79	74	71	79	74	71	67
0.80	86	81	78	86	81	78	85	80	77	74
1.00	90	85	82	89	85	82	88	85	81	78
1.25	94	89	86	93	89	86	91	88	85	81
1.50	96	92	89	95	91	89	93	90	88	84
2.00	98	95	92	97	94	91	95	92	90	85
2.50	100	96	94	98	95	93	95	93	91	86
3.00	101	98	96	99	97	95	96	94	93	87
4.00	103	100	99	101	99	97	98	96	95	88
5.00	104	102	100	102	100	99	98	97	96	89
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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SPEC.: 4000K	DIM.:	SERIAL No.: 2404030256
MFR.: RISE	SUR.: 0.002826m2	Shielding Angle:

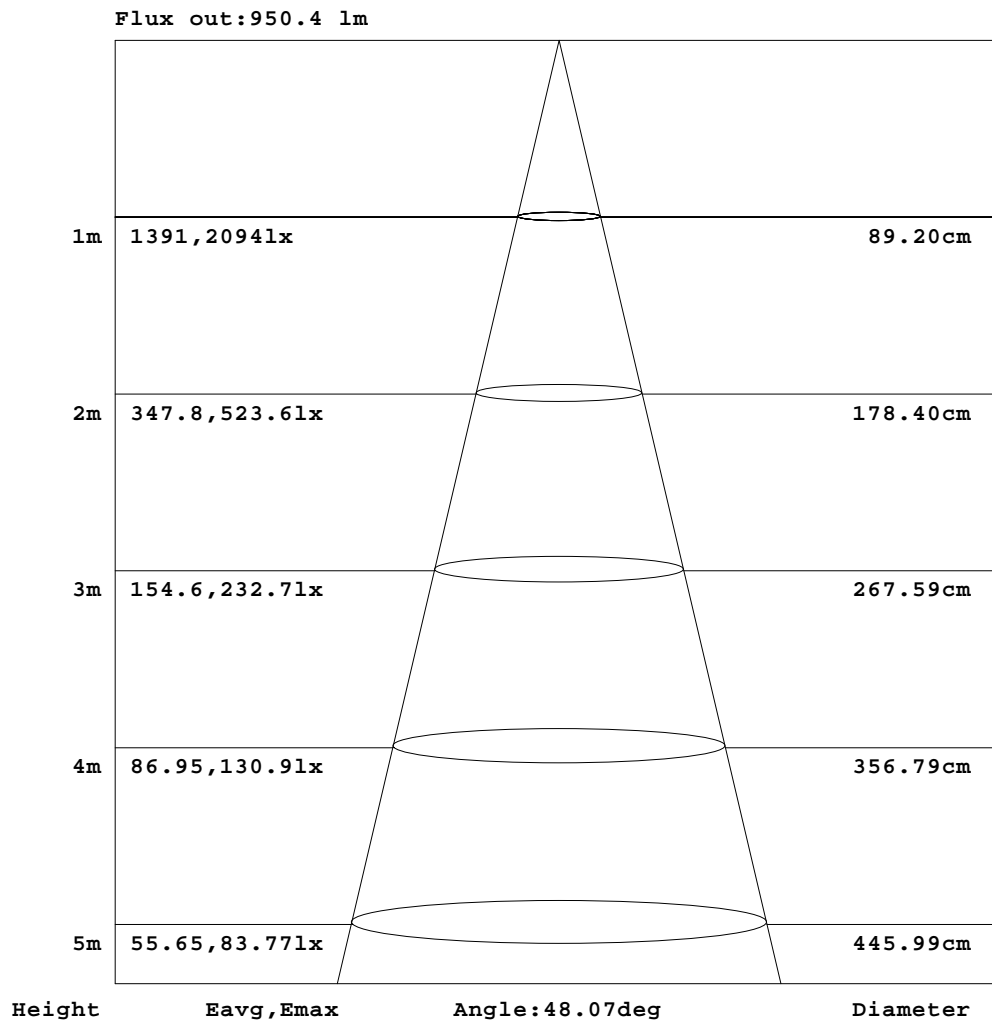


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## AAI Figure

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SPEC.: 4000K	DIM.:	SERIAL No.: 2404030256
MFR.: RISE	SUR.: 0.002826m2	Shielding Angle:



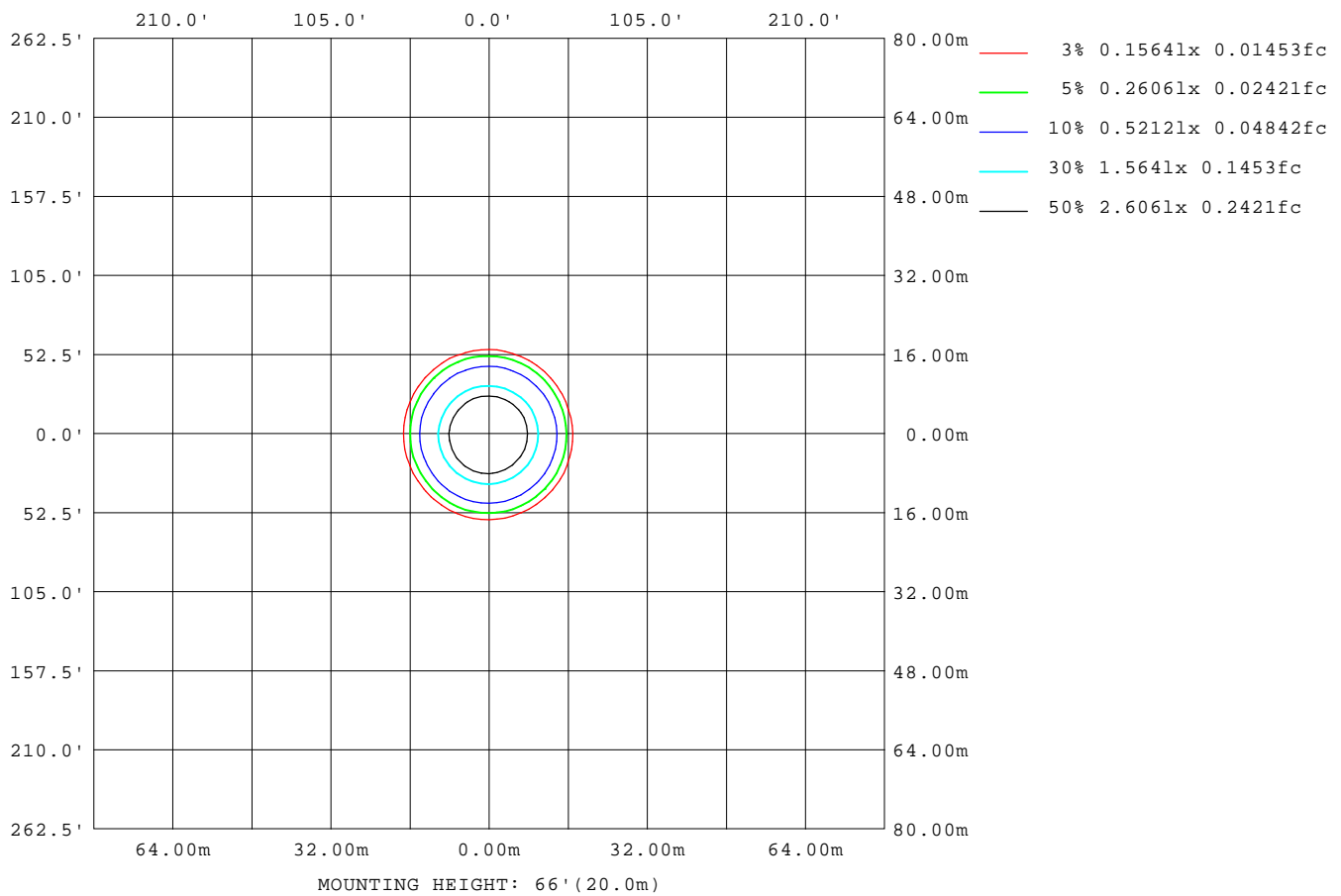
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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30minutes warm-up

## ISOLUX DIAGRAM

Test:U:220.19V I:0.0616A P:11.743W PF:0.8610 Freq:49.99Hz Lamp Flux:1608.69x1 lm		
NAME: 2319.209-UA-300-HE	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 2404030256
MFR.: RISE	SUR.: 0.002826m2	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2024-4-3

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:BXRE-40G10TH-A-83 Ra:90  
LENS:PM-0132C 60R  
DRIVER:SC42W300-1050CG-4W 300mA  
30minutes warm-up

## LED Avg.L Report

Test:U:220.19V I:0.0616A P:11.743W PF:0.8610 Freq:49.99Hz Lamp Flux:1608.69x1 lm		
NAME: 2319.209-UA-300-HE	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 2404030256
MFR.: RISE	SUR.: 0.002826m2	Shielding Angle:

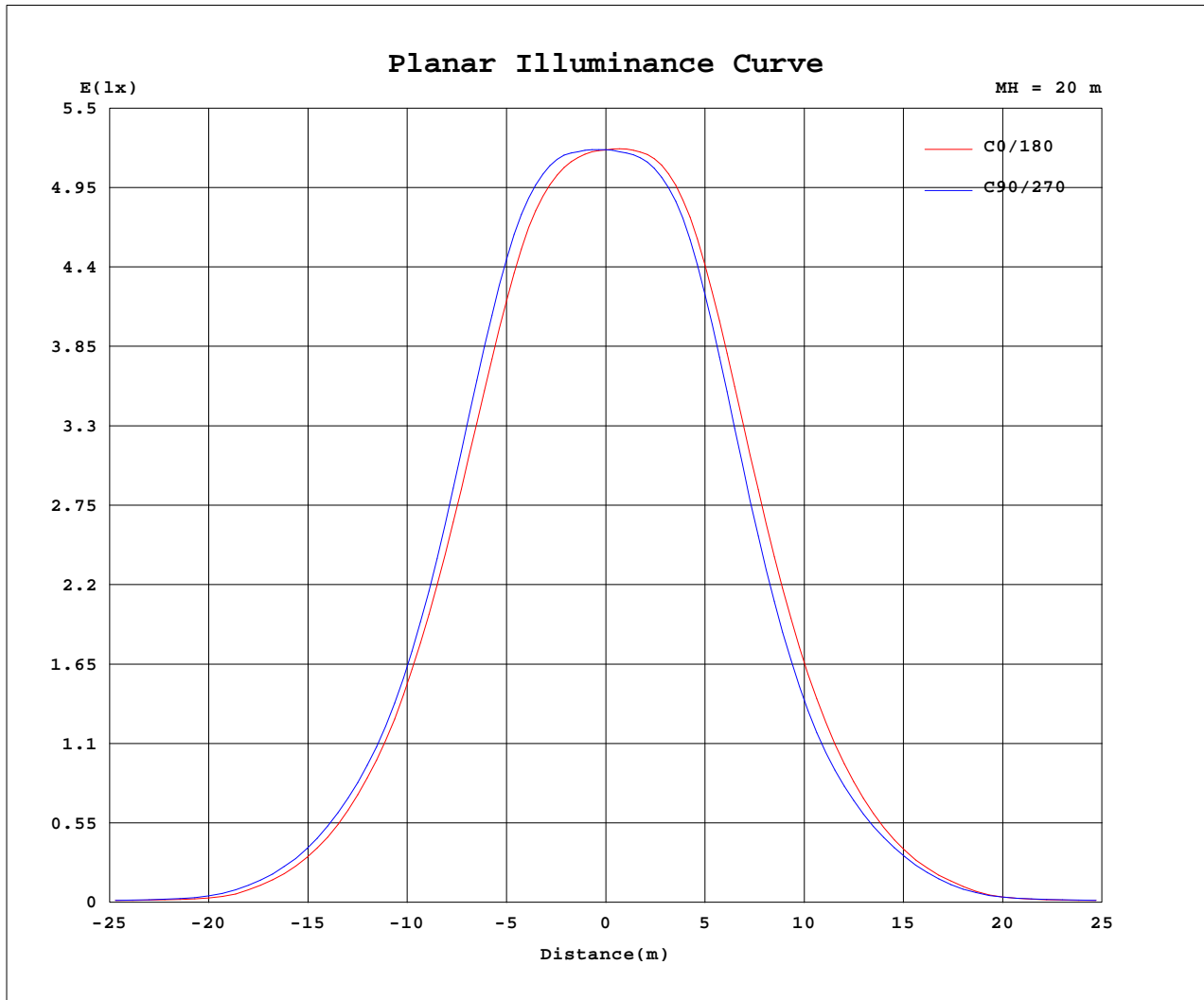
AvgL	cd/m2
L_0~180(65)av	4809
L_0~180(75)av	325
L_0~180(85)av	97
L_90~270(65)av	5177
L_90~270(75)av	416
L_90~270(85)av	90
L_45(65)av	5059
L_45(75)av	329
L_45(85)av	53

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2024-4-3

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:BXRE-40G10TH-A-83 Ra:90  
LENS:PM-0132C 60R  
DRIVER:SC42W300-1050CG-4W 300mA  
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: 2024-4-3

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: BXRE-40G10TH-A-83 Ra:90  
 LENS: PM-0132C 60R  
 DRIVER: SC42W300-1050CG-4W 300mA  
 30minutes warm-up

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.19V I:0.0616A P:11.743W PF:0.8610 Freq:49.99Hz Lamp Flux:1608.69x1 lm		
NAME: 2319.209-UA-300-HE	TYPE:	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.: 2404030256
MFR.: RISE	SUR.: 0.002826m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2087	2087	2087	2087	2087	2087	2087	2087	2087	2087	2087	2087						
5	2077	2081	2092	2102	2108	2092	2105	2104	2098	2088	2078	2085						
10	2008	2026	2055	2082	2095	2064	2082	2067	2050	2035	2008	2021						
15	1766	1801	1839	1898	1913	1867	1878	1832	1815	1779	1759	1774						
20	1382	1415	1445	1507	1535	1506	1495	1425	1389	1342	1340	1380						
25	967	995	1010	1045	1078	1074	1058	987	944	904	898	950						
30	608	636	648	665	683	685	677	627	595	565	564	593						
35	331	354	367	387	392	377	380	357	344	329	323	322						
40	140	157	165	177	177	168	170	163	158	146	138	134						
45	37.4	40.7	45.4	52.7	50.2	44.6	43.1	44.9	47.1	43.1	39.9	35.8						
50	24.8	25.7	27.6	28.1	27.4	26.2	25.0	26.1	27.6	26.3	25.6	24.8						
55	19.5	20.3	21.7	22.2	22.1	21.4	20.2	20.4	21.2	20.3	20.0	19.5						
60	12.1	12.8	13.6	14.3	14.4	14.0	13.1	12.8	13.0	12.5	12.3	12.0						
65	5.49	5.81	6.19	6.60	6.72	6.51	6.00	5.87	6.01	5.76	5.70	5.48						
70	2.14	2.23	2.48	2.67	2.80	2.70	2.32	2.18	2.27	2.07	2.12	2.07						
75	0.14	0.18	0.24	0.49	0.57	0.45	0.34	0.18	0.12	0.12	0.10	0.10						
80	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.03	0.02	0.02						
85	0.03	0.01	0.02	0.02	0.02	0.01	0.02	0.01	0.01	0.02	0.01	0.01						
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:2024-4-3

Range: 0 - 180DEG  
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