

### Luminaire Photograph



Light Output Ratio:	78.0%	
Luminaire Power:	6.515 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.30	fine grid method.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2024-10-11

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: CMA1306-0000-000F0U0A30G Ra:90  
LENS: HK 15R  
NO DRIVER: DC 24V  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

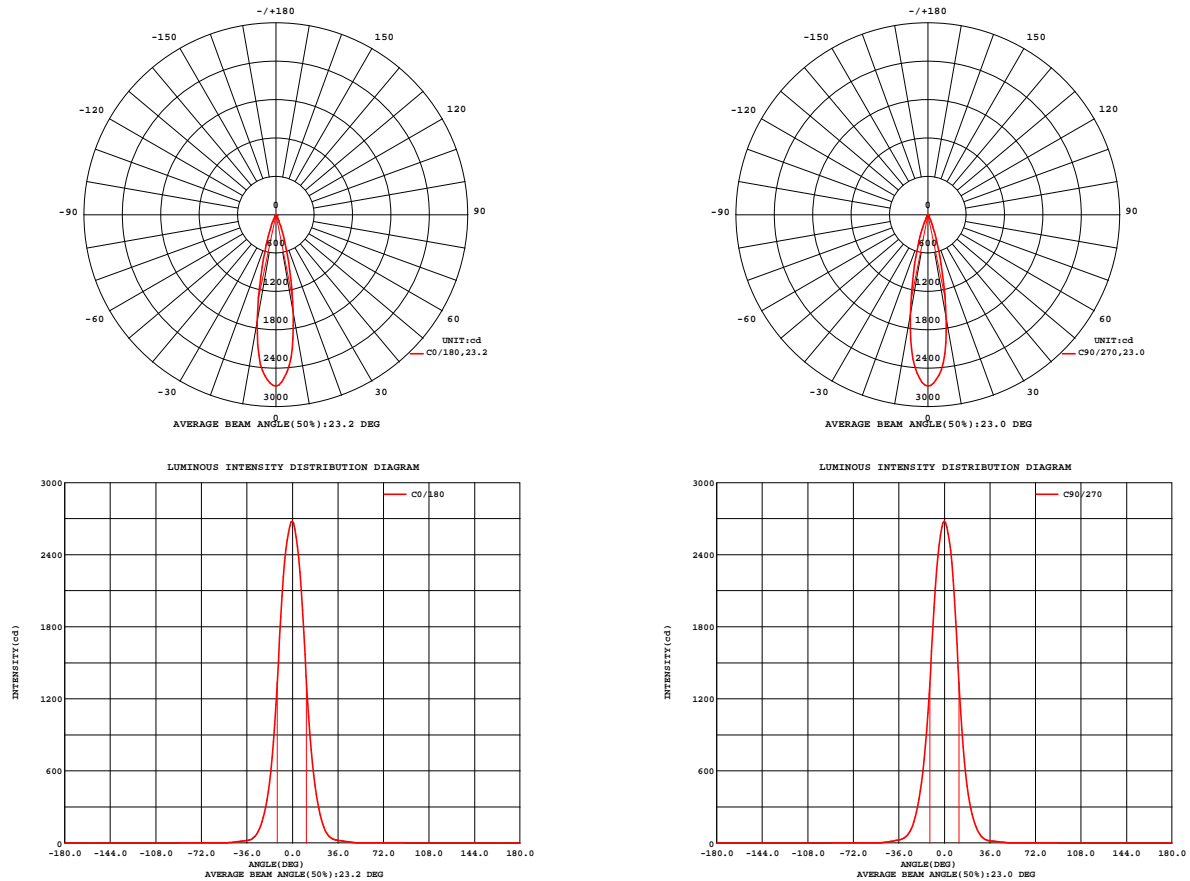


Fig. C0/C180

Fig. C90/C270

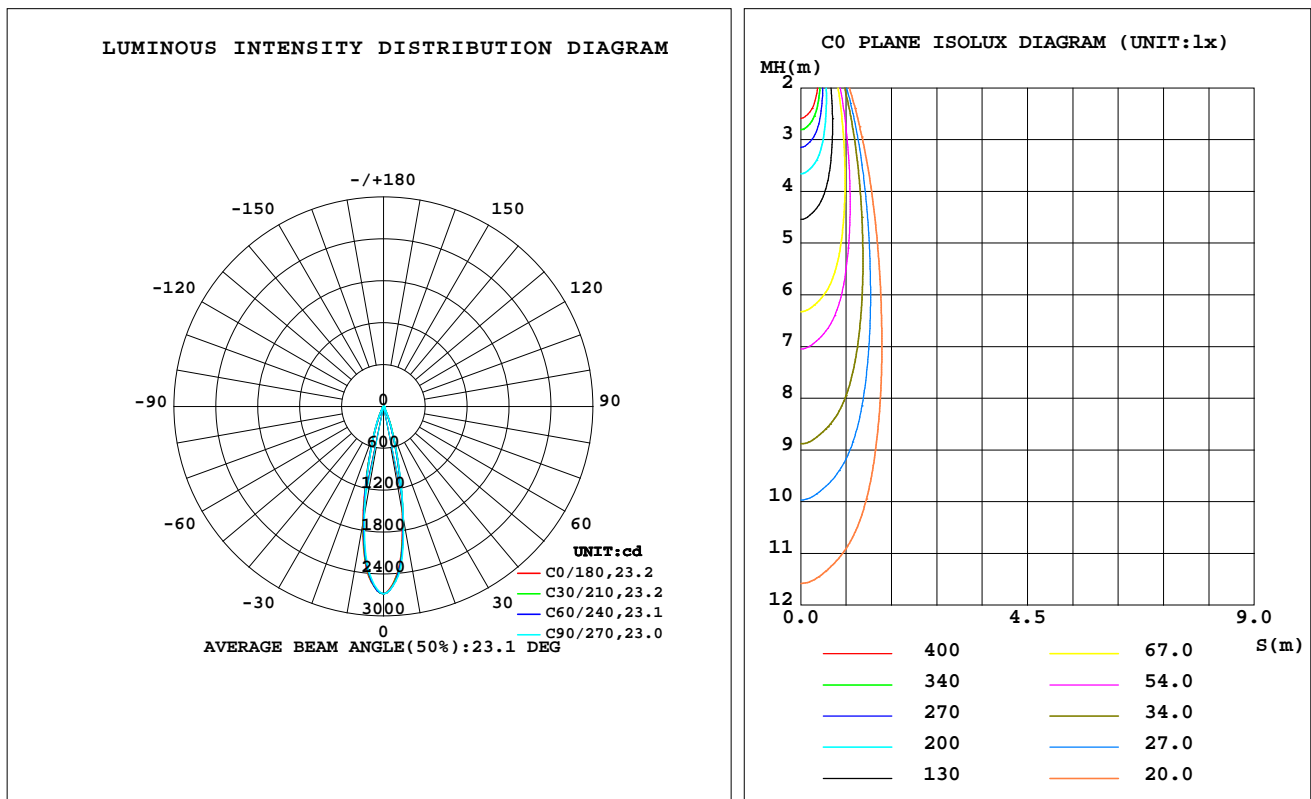
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30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.998V I:0.2715A P:6.5155W PF:1.0000 Freq:59.98Hz Lamp Flux:673.86x1 lm		
NAME: 2417.203	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410111238
MFR.: RISE	SUR.: 0.000660185m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 80.72 lm/W			
MODEL	CREE	I <sub>max</sub> (cd)	2680	S/MH(C0/180)	0.40
NOMINAL POWER(W)	7	LOR(%)	78.0	S/MH(C90/270)	0.39
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	525.92	UP,DN(C0-180)	0.0,38.6
NOMINAL FLUX(lm)	673.86	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,39.5
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	24	down(%)	78.0	CIBSE SHR MAX	0.30



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Interval: 1.0DEG  
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## ZONAL FLUX DIAGRAM

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	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	1568	1611	1656	1689	1708	1654	1594	1577	0- 10	204.9	204.9	39,30.4
20	341.8	333.4	339.9	343.0	358.6	365.1	365.7	354.3	10- 20	227.1	432.0	82.1,64.1
30	45.34	42.78	46.05	48.42	48.75	52.54	55.27	51.57	20- 30	69.30	501.3	95.3,74.4
40	16.15	13.78	13.37	14.03	15.44	16.45	17.27	17.15	30- 40	16.39	517.7	98.4,76.8
50	2.535	2.339	2.501	2.763	3.089	2.790	2.418	2.555	40- 50	6.480	524.2	99.7,77.8
60	1.095	0.8228	0.7133	0.6685	0.9160	1.057	1.052	1.173	50- 60	1.141	525.3	99.9,78
70	0.0690	0.0575	0.0603	0.0568	0.0648	0.0657	0.0724	0.0661	60- 70	0.5633	525.9	100,78
80	0.0136	0.0051	0.0102	0.0067	0.0130	0.0050	0.0114	0.0053	70- 80	0.0232	525.9	100,78
90	0	0	0	0	0	0	0	0	80- 90	0.0054	525.9	100,78
100	0	0	0	0	0	0	0	0	90-100	0	525.9	100,78
110	0	0	0	0	0	0	0	0	100-110	0	525.9	100,78
120	0	0	0	0	0	0	0	0	110-120	0	525.9	100,78
130	0	0	0	0	0	0	0	0	120-130	0	525.9	100,78
140	0	0	0	0	0	0	0	0	130-140	0	525.9	100,78
150	0	0	0	0	0	0	0	0	140-150	0	525.9	100,78
160	0	0	0	0	0	0	0	0	150-160	0	525.9	100,78
170	0	0	0	0	0	0	0	0	160-170	0	525.9	100,78
180	0	0	0	0	0	0	0	0	170-180	0	525.9	100,78
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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C Interval: 30.0DEG  
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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:CMA1306-0000-000F0U0A30G Ra:90  
LENS:HK 15R  
NO DRIVER:DC 24V  
30minutes warm-up

### LUMINANCE LIMITATION CURVES

Test:U:23.998V I:0.2715A P:6.5155W PF:1.0000 Freq:59.98Hz  
Lamp Flux:673.86x1 lm

NAME: 2417.203

TYPE:

WEIGHT:

SPEC.: 3000K

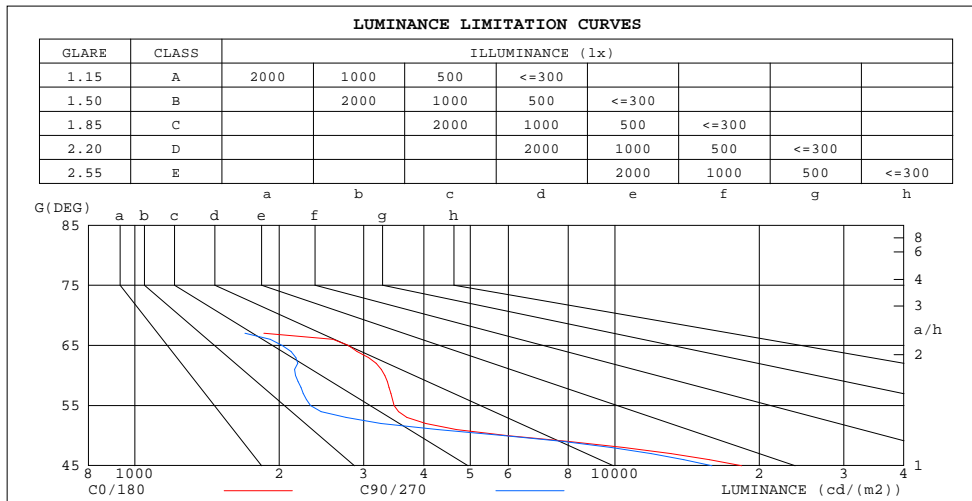
DIM.:

SERIAL No.: 2410111238

MFR.: RISE

SUR.: 0.000660185m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	167	194
80	119	89
75	118	96
70	306	267
65	2784	2027
60	3320	2161
55	3470	2324
50	5978	5893
45	18383	15938

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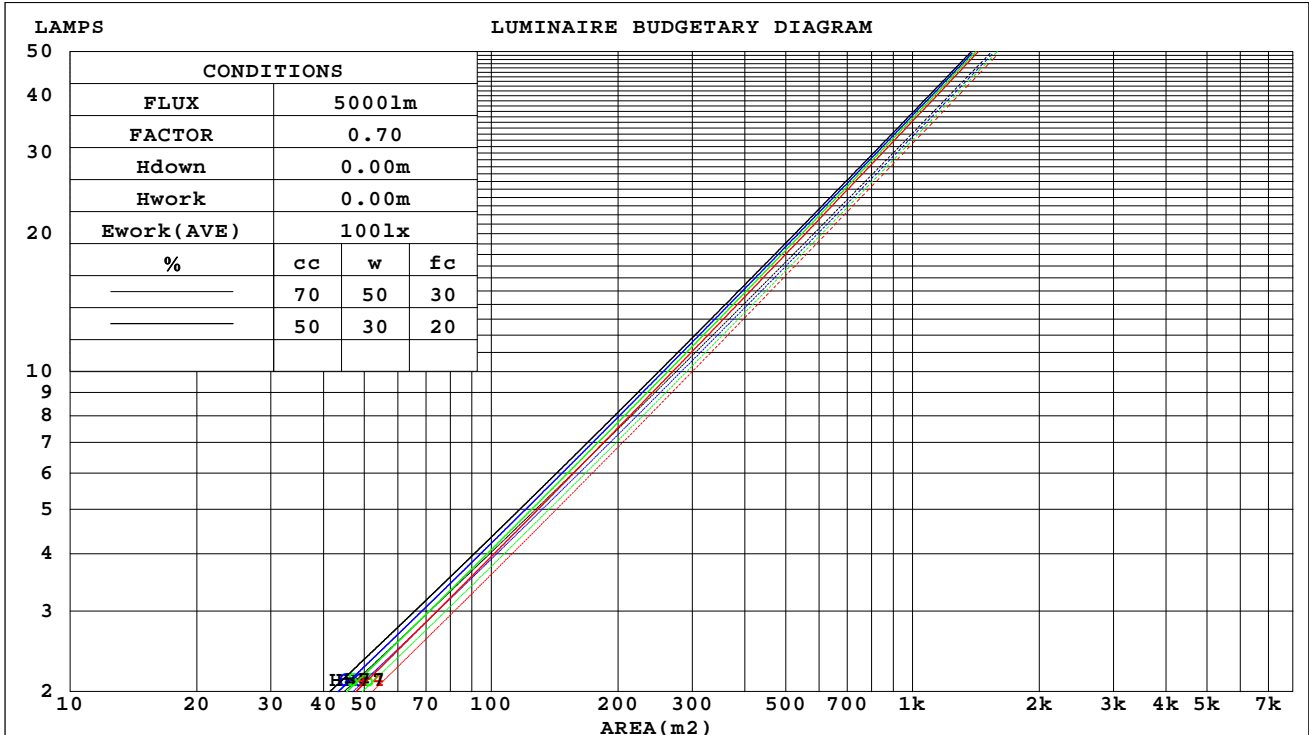
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## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.998V I:0.2715A P:6.5155W PF:1.0000 Freq:59.98Hz  
Lamp Flux:673.86x1 lm

NAME: 2417.203	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410111238
MFR.: RISE	SUR.: 0.000660185m2	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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Temperature:25.3℃  
Operators:zoe  
Test Date:2024-10-11

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:CMA1306-0000-000F0U0A30G Ra:90  
LENS:HK 15R  
NO DRIVER:DC 24V  
30minutes warm-up

### WEC AND CCEC

Test:U:23.998V I:0.2715A P:6.5155W PF:1.0000 Freq:59.98Hz Lamp Flux:673.86x1 lm		
NAME: 2417.203	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410111238
MFR.: RISE	SUR.: 0.000660185m2	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	.104	.059	.019	.099	.057	.018	.089	.051	.016	.081	.046	.015	.072	.042	.014		
2.0	.096	.053	.016	.092	.051	.016	.084	.047	.015	.077	.043	.014	.070	.040	.013		
3.0	.090	.048	.014	.086	.046	.014	.080	.043	.013	.074	.040	.012	.068	.038	.012		
4.0	.084	.044	.013	.081	.042	.013	.075	.040	.012	.070	.038	.011	.066	.036	.011		
5.0	.079	.040	.012	.077	.039	.011	.072	.037	.011	.067	.036	.011	.063	.034	.010		
6.0	.075	.037	.011	.073	.037	.011	.068	.035	.010	.065	.034	.010	.061	.032	.010		
7.0	.071	.035	.010	.069	.034	.010	.065	.033	.010	.062	.032	.009	.059	.031	.009		
8.0	.067	.033	.009	.066	.032	.009	.063	.031	.009	.060	.030	.009	.057	.029	.009		
9.0	.064	.031	.009	.063	.031	.009	.060	.030	.008	.058	.029	.008	.055	.028	.008		
10.0	.062	.030	.008	.060	.029	.008	.058	.028	.008	.056	.028	.008	.054	.027	.008		

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	.149	.149	.149	.127	.127	.127	.087	.087	.087	.050	.050	.050	.016	.016	.016	
1.0	.131	.123	.116	.112	.106	.100	.077	.073	.069	.044	.042	.040	.014	.014	.013	
2.0	.117	.104	.092	.100	.089	.080	.069	.062	.056	.040	.036	.033	.013	.012	.011	
3.0	.105	.088	.075	.090	.076	.065	.062	.053	.046	.036	.031	.027	.011	.010	.009	
4.0	.095	.076	.062	.082	.066	.054	.056	.046	.038	.032	.027	.022	.010	.009	.007	
5.0	.087	.067	.052	.075	.058	.045	.051	.040	.032	.030	.024	.019	.010	.008	.006	
6.0	.080	.059	.044	.069	.051	.038	.047	.036	.027	.027	.021	.016	.009	.007	.005	
7.0	.074	.052	.037	.064	.045	.033	.044	.032	.023	.026	.019	.014	.008	.006	.005	
8.0	.069	.047	.032	.059	.041	.028	.041	.029	.020	.024	.017	.012	.008	.006	.004	
9.0	.064	.043	.028	.055	.037	.025	.038	.026	.017	.022	.015	.010	.007	.005	.003	
10.0	.060	.039	.025	.052	.034	.022	.036	.024	.015	.021	.014	.009	.007	.005	.003	

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Humidity:65.0%  
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30minutes warm-up

## UGR(Unified Glare Rating) Table

Test:U:23.998V I:0.2715A P:6.5155W PF:1.0000 Freq:59.98Hz Lamp Flux:673.86x1 lm										
NAME: 2417.203					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2410111238		
MFR.: RISE					SUR.: 0.000660185m2			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	12.2	12.8	12.4	13.0	13.1	11.6	12.2	11.8	12.4	12.5
3H	12.1	12.7	12.3	12.9	13.0	11.5	12.1	11.7	12.3	12.4
4H	12.0	12.6	12.3	12.8	13.0	11.4	12.0	11.7	12.2	12.4
6H	11.9	12.5	12.2	12.7	12.9	11.3	11.9	11.6	12.1	12.3
8H	11.9	12.4	12.2	12.6	12.9	11.3	11.8	11.6	12.0	12.3
12H	11.8	12.3	12.1	12.6	12.9	11.2	11.7	11.5	12.0	12.3
4H 2H	12.0	12.6	12.3	12.8	13.0	11.4	12.0	11.7	12.2	12.4
3H	11.9	12.4	12.2	12.6	12.9	11.3	11.8	11.6	12.0	12.3
4H	11.8	12.2	12.1	12.5	12.8	11.2	11.6	11.5	11.9	12.2
6H	11.7	12.1	12.1	12.4	12.8	11.1	11.5	11.5	11.8	12.2
8H	11.6	12.0	12.0	12.4	12.7	11.0	11.4	11.4	11.8	12.1
12H	11.6	11.9	12.0	12.3	12.7	11.0	11.3	11.4	11.7	12.1
8H 4H	11.6	12.0	12.0	12.4	12.7	11.0	11.4	11.4	11.8	12.1
6H	11.5	11.8	11.9	12.2	12.6	10.9	11.2	11.3	11.6	12.0
8H	11.5	11.7	11.9	12.1	12.6	10.9	11.1	11.3	11.5	12.0
12H	11.4	11.6	11.9	12.1	12.5	10.8	11.0	11.3	11.5	11.9
12H 4H	11.6	11.9	12.0	12.3	12.7	11.0	11.3	11.4	11.7	12.1
6H	11.5	11.7	11.9	12.1	12.6	10.9	11.1	11.3	11.5	12.0
8H	11.4	11.6	11.9	12.1	12.5	10.8	11.0	11.3	11.5	11.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.8 / - 9.2					+ 2.5 / -10.3				
1.5H	+ 4.7 / - 9.0					+ 4.2 / - 9.6				
2.0H	+ 6.9 / - 6.1					+ 6.8 / - 5.6				

CIE Pub.117, 673.9 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.4)  
Area: 0.000660185 m2

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### UTILIZATION FACTORS TABLE

Test:U:23.998V I:0.2715A P:6.5155W PF:1.0000 Freq:59.98Hz Lamp Flux:673.86x1 lm		
NAME: 2417.203	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410111238
MFR.: RISE	SUR.: 0.000660185m2	Shielding Angle:

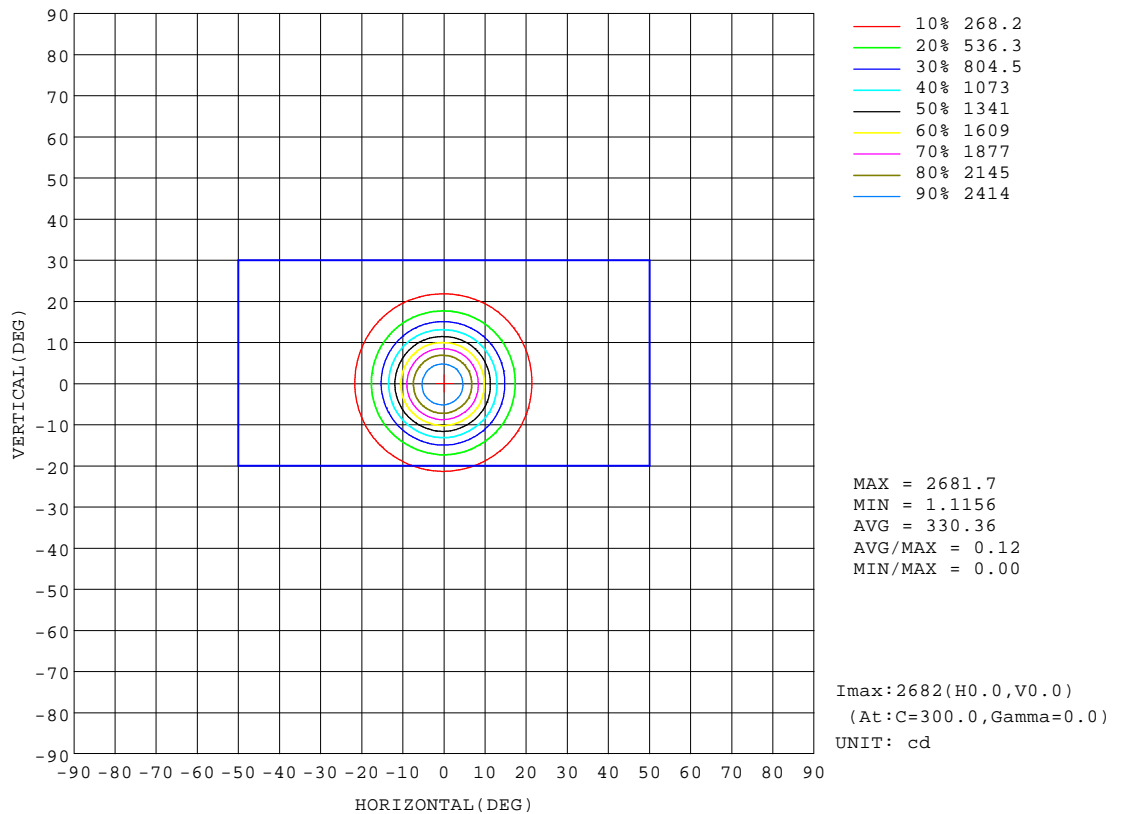
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	71	66	64	70	66	63	70	66	63	61
0.80	76	72	69	76	72	69	75	71	69	66
1.00	79	75	73	79	75	72	77	75	72	69
1.25	82	78	76	81	78	76	80	77	75	72
1.50	84	81	78	83	80	78	81	79	77	74
2.00	86	83	80	85	82	80	82	80	79	75
2.50	87	84	82	86	83	81	83	81	80	75
3.00	88	85	84	86	84	83	84	82	81	76
4.00	89	87	86	88	86	85	85	84	83	77
5.00	90	89	87	89	87	86	86	85	84	78
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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NAME: 2417.203	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410111238
MFR.: RISE	SUR.: 0.000660185m2	Shielding Angle:

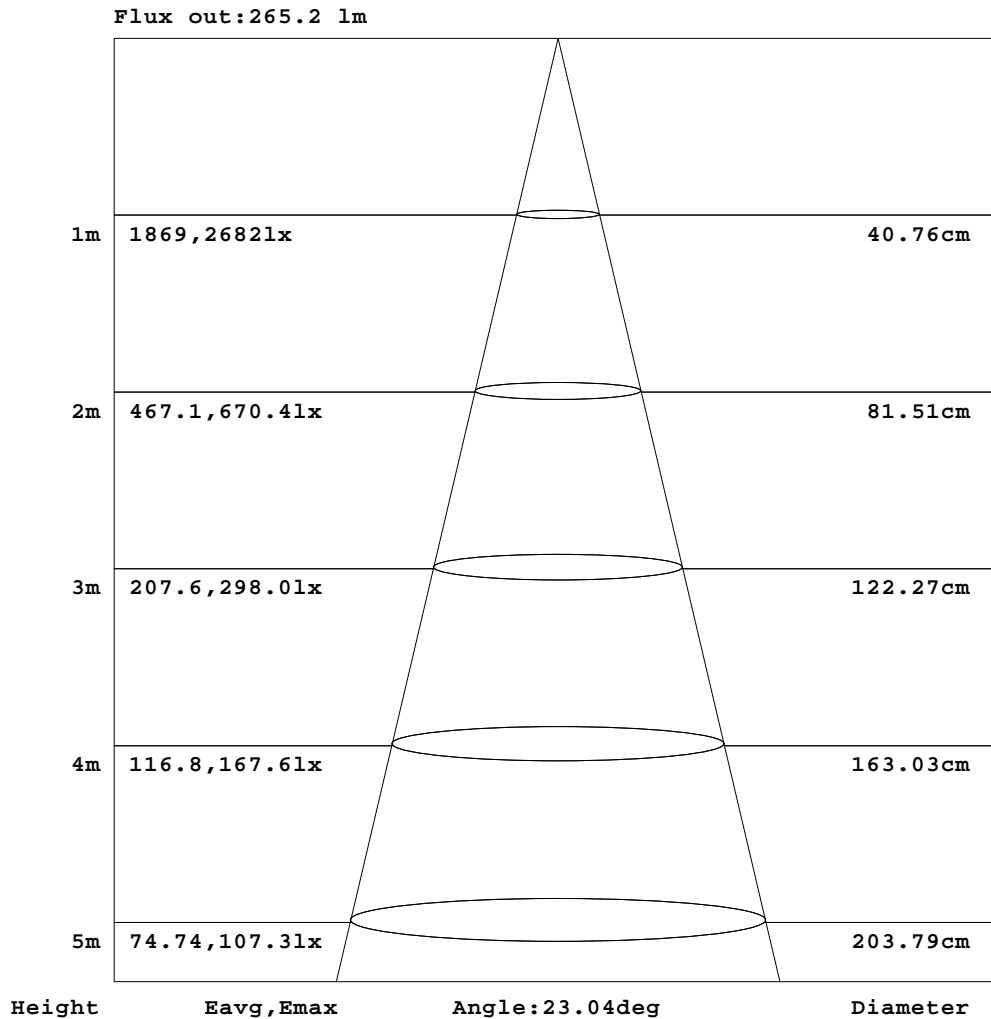


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## AAI Figure

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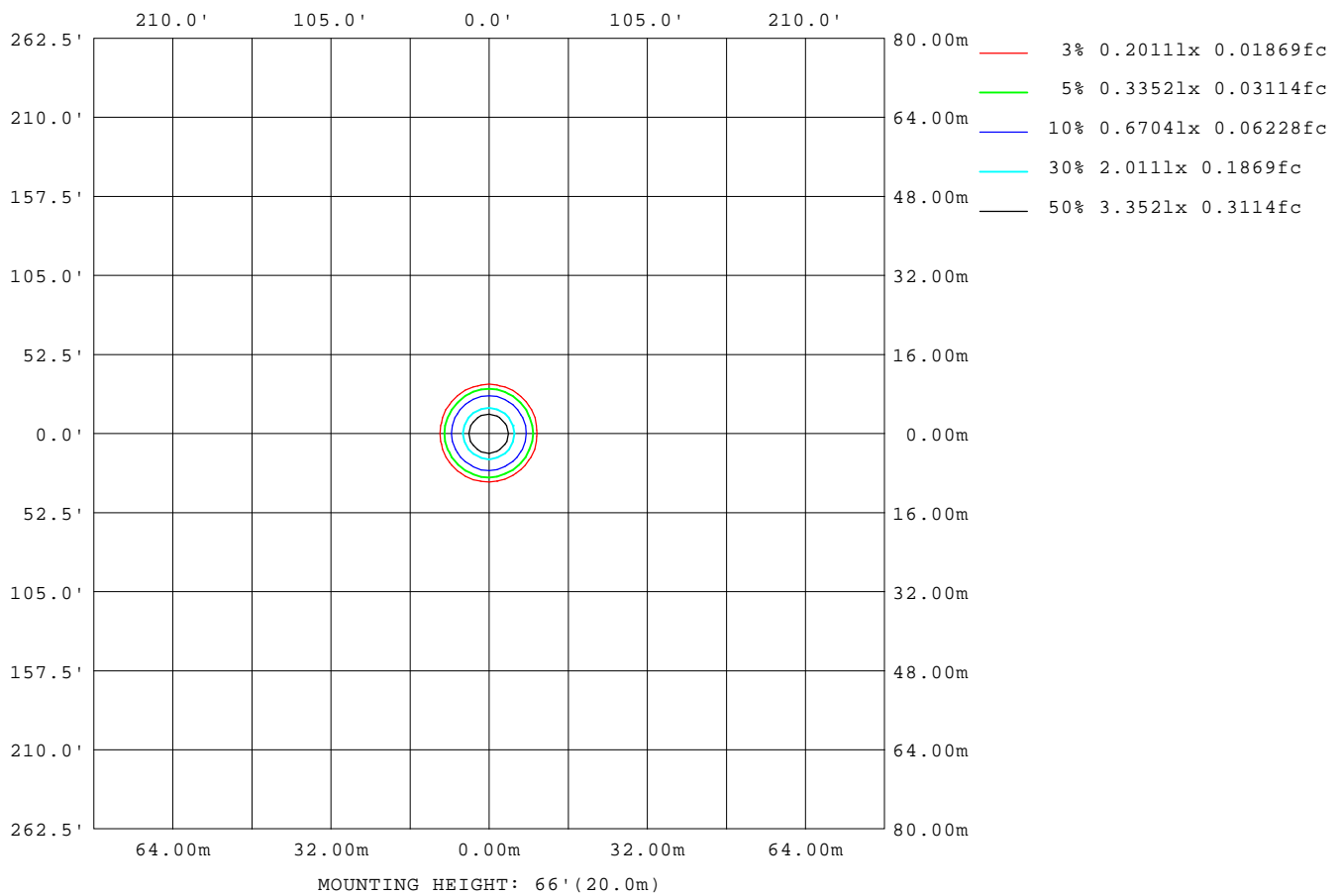
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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30minutes warm-up

## ISOLUX DIAGRAM

Test:U:23.998V I:0.2715A P:6.5155W PF:1.0000 Freq:59.98Hz Lamp Flux:673.86x1 lm		
NAME: 2417.203	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410111238
MFR.: RISE	SUR.: 0.000660185m2	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2024-10-11

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:CMA1306-0000-000F0U0A30G Ra:90  
LENS:HK 15R  
NO DRIVER:DC 24V  
30minutes warm-up

## LED Avg.L Report

Test:U:23.998V I:0.2715A P:6.5155W PF:1.0000 Freq:59.98Hz Lamp Flux:673.86x1 lm		
NAME: 2417.203	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410111238
MFR.: RISE	SUR.: 0.000660185m2	Shielding Angle:

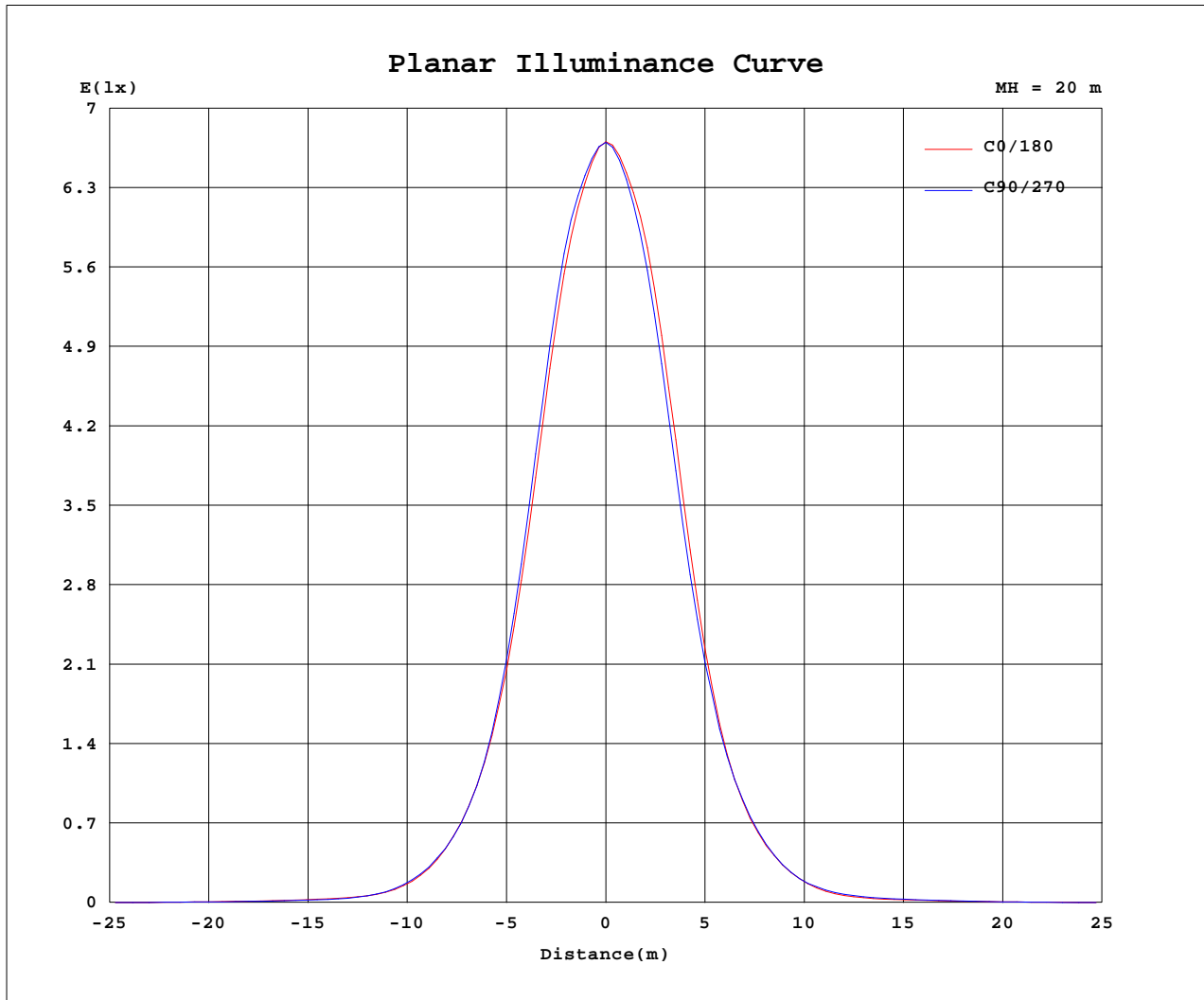
AvgL	cd/m2
L_0~180(65)av	2648
L_0~180(75)av	109
L_0~180(85)av	164
L_90~270(65)av	2226
L_90~270(75)av	92
L_90~270(85)av	173
L_45(65)av	2412
L_45(75)av	73
L_45(85)av	37

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2024-10-11

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:CMA1306-0000-000F0U0A30G Ra:90  
LENS:HK 15R  
NO DRIVER:DC 24V  
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: 2024-10-11

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: CMA1306-0000-000F0U0A30G Ra:90  
 LENS: HK 15R  
 NO DRIVER: DC 24V  
 30minutes warm-up



## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.998V I:0.2715A P:6.5155W PF:1.0000 Freq:59.98Hz Lamp Flux:673.86x1 lm		
NAME: 2417.203	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410111238
MFR.: RISE	SUR.: 0.000660185m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2680	2680	2680	2680	2680	2680	2680	2680	2680	2680	2680	2680						
5	2372	2395	2410	2434	2452	2462	2445	2423	2407	2384	2376	2373						
10	1568	1607	1614	1656	1673	1706	1708	1664	1643	1594	1585	1569						
15	777	787	788	802	808	826	840	837	823	812	796	788						
20	342	336	331	340	337	349	359	362	368	366	360	349						
25	129	127	128	136	138	144	143	143	147	144	141	134						
30	45.3	42.7	42.9	46.0	47.3	49.5	48.8	50.4	54.6	55.3	53.7	49.5						
35	24.2	21.4	20.3	20.7	21.6	22.3	22.7	24.7	27.3	28.3	28.0	26.3						
40	16.1	14.3	13.2	13.4	13.7	14.4	15.4	16.1	16.8	17.3	17.5	16.8						
45	8.58	7.81	7.30	7.44	7.62	8.13	8.89	8.93	8.86	8.85	9.06	8.79						
50	2.54	2.42	2.26	2.50	2.58	2.94	3.09	2.96	2.62	2.42	2.59	2.53						
55	1.31	1.13	0.91	0.88	0.78	0.97	1.08	1.19	1.12	1.20	1.37	1.34						
60	1.10	0.92	0.73	0.71	0.57	0.77	0.92	1.05	1.07	1.05	1.23	1.12						
65	0.78	0.68	0.51	0.57	0.34	0.59	0.70	0.75	0.81	0.68	0.89	0.81						
70	0.07	0.06	0.05	0.06	0.06	0.06	0.06	0.07	0.06	0.07	0.07	0.07						
75	0.02	0.01	0.01	0.02	0.02	0.01	0.02	0.01	0.02	0.01	0.01	0.01						
80	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.01						
85	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00						
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:2024-10-11

Range: 0 - 180DEG  
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Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
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30minutes warm-up