

## Luminaire Photograph



Light Output Ratio:	81.3%	
Luminaire Power:	21.65 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	fine grid method.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Zoe  
Test Date: 2022-12-26

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity: 65.0%  
Test Distance: 3.160m [K=1.0000]  
Remarks: LAMP: CMA1306-0000-000F0U0A30G Ra:90  
LENS: PM-1084B 36R  
DRIVER: PUP20A-1WMC 500mA  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

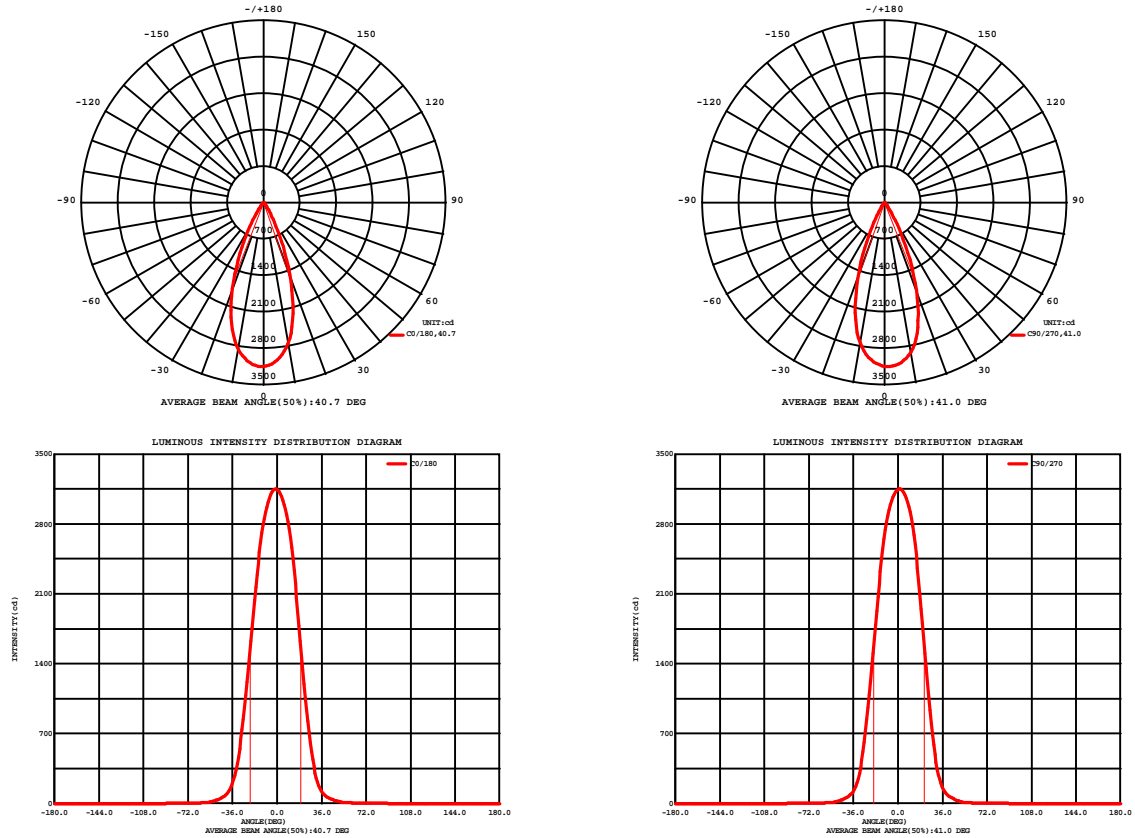


Fig. C0/C180

Fig. C90/C270

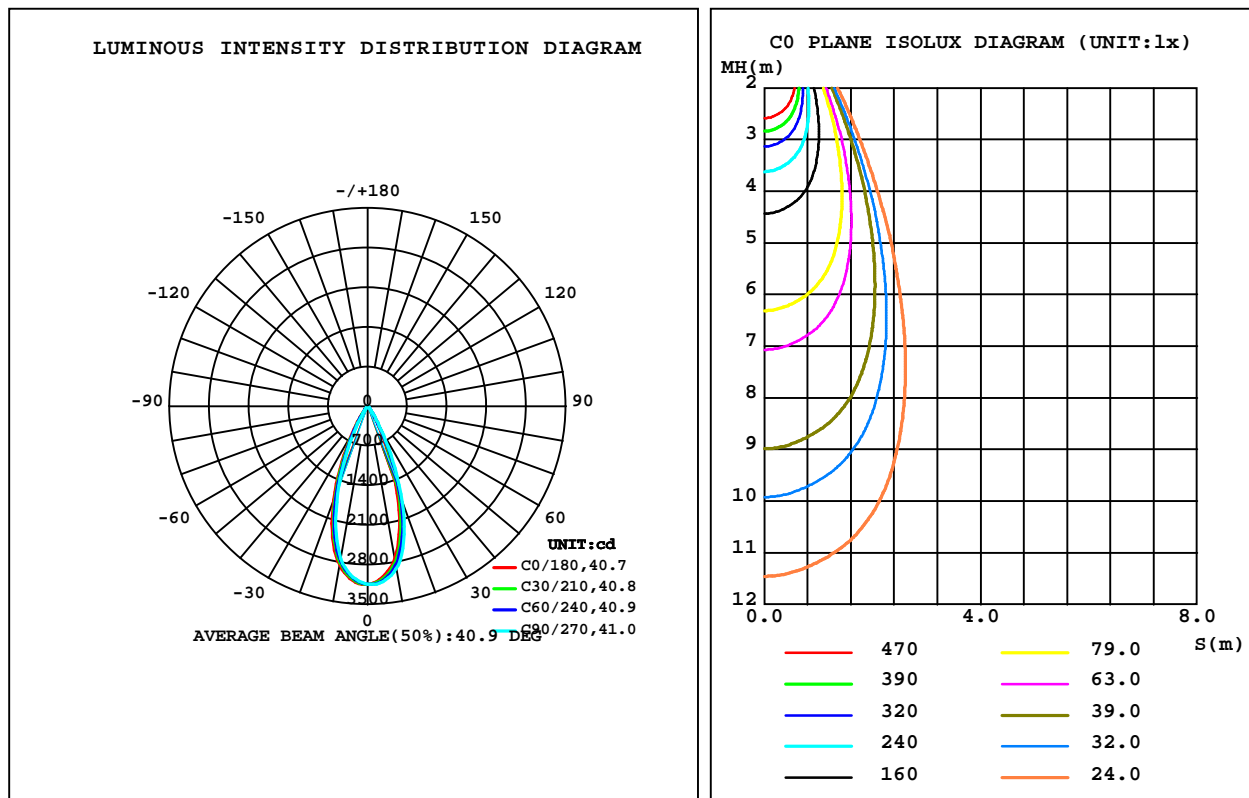
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Zoe  
Test Date: 2022-12-26

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity: 65.0%  
Test Distance: 3.160m [K=1.0000]  
Remarks: LAMP: CMA1306-0000-000F0U0A30G Ra: 90  
LENS: PM-1084B 36R  
DRIVER: PUP20A-1WMC 500mA  
30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.91V I:0.1813A P:21.645W PF:0.9947 Freq:59.98Hz Lamp Flux:1884x1 lm		
NAME: 2214.411-2-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2212231389
MFR.: RISE	SUR.:0.005865m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 70.76 lm/W			
MODEL	CREE	I <sub>max</sub> (cd)	3152	S/MH(C0/180)	0.67
NOMINAL POWER(W)	22	LOR(%)	81.3	S/MH(C90/270)	0.61
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1531.7	h UP,DN(C0-180)	0.0,41.8
NOMINAL FLUX(lm)	1884	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,39.5
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	h down(%)	81.3	CIBSE SHR MAX	0.65



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C Interval: 30.0DEG  
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Temperature:25.3DEG  
Operators:Zoe  
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g Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90  
LENS: PM-1084B 36R  
DRIVER:PUP20A-1WMC 500mA  
30minutes warm-up

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

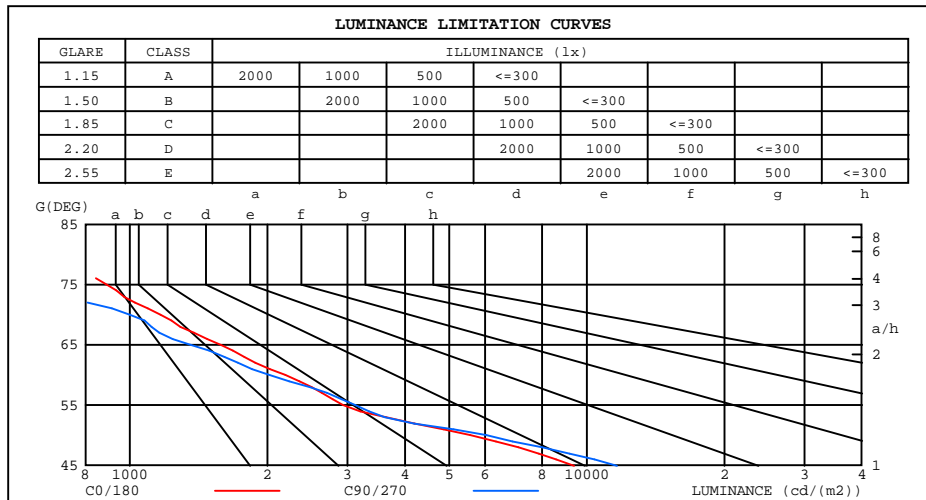
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	2746	2832	2918	2905	2852	2797	2738	2725	0- 10	284.9	284.9	18.6,15.1
20	1481	1639	1803	1806	1763	1632	1502	1466	10- 20	630.4	915.3	59.8,48.6
30	369.1	433.8	492.9	515.1	548.7	464.6	363.0	348.1	20- 30	436.2	1352	88.2,71.7
40	70.22	79.58	87.29	94.33	99.64	83.86	67.64	64.49	30- 40	126.1	1478	96.5,78.4
50	20.98	25.33	22.73	29.87	27.77	26.21	17.56	21.58	40- 50	36.18	1514	98.8,80.3
60	6.414	7.097	5.935	7.941	7.617	7.668	5.475	6.796	50- 60	11.78	1526	99.6,81
70	2.337	2.477	2.010	2.595	2.622	2.527	1.857	2.421	60- 70	4.287	1530	99.9,81.2
80	0.6659	0.6491	0.4990	0.5061	0.6663	0.6505	0.5917	0.6565	70- 80	1.435	1531	100,81.3
90	0	0	0	0	0	0	0	0	80- 90	0.3914	1532	100,81.3
100	0	0	0	0	0	0	0	0	90-100	0	1532	100,81.3
110	0	0	0	0	0	0	0	0	100-110	0	1532	100,81.3
120	0	0	0	0	0	0	0	0	110-120	0	1532	100,81.3
130	0	0	0	0	0	0	0	0	120-130	0	1532	100,81.3
140	0	0	0	0	0	0	0	0	130-140	0	1532	100,81.3
150	0	0	0	0	0	0	0	0	140-150	0	1532	100,81.3
160	0	0	0	0	0	0	0	0	150-160	0	1532	100,81.3
170	0	0	0	0	0	0	0	0	160-170	0	1532	100,81.3
180	0	0	0	0	0	0	0	0	170-180	0	1532	100,81.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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g Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
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LENS: PM-1084B 36R  
DRIVER:PUP20A-1WMC 500mA  
30minutes warm-up

## LUMINANCE LIMITATION CURVES

Test:U:119.91V I:0.1813A P:21.645W PF:0.9947 Freq:59.98Hz Lamp Flux:1884x1 lm		
NAME: 2214.411-2-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2212231389
MFR.: RISE	SUR.:0.005865m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	613	795
80	655	490
75	891	675
70	1167	1002
65	1581	1359
60	2191	2023
55	2926	3113
50	5573	6028
45	9385	11658

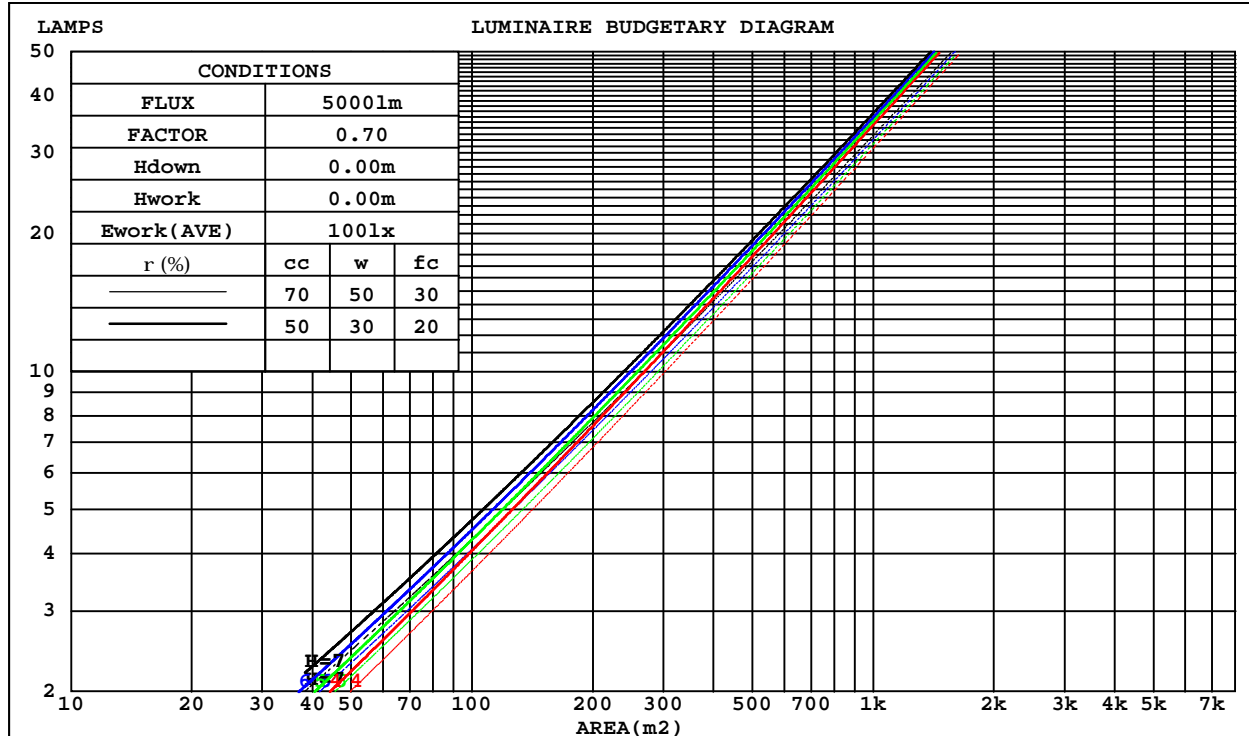
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## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	DIM.:	SERIAL No.:2212231389
MFR.: RISE	SUR.:0.005865m2	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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Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90  
LENS: PM-1084B 36R  
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30minutes warm-up

### WEC AND CCEC

Test:U:119.91V I:0.1813A P:21.645W PF:0.9947 Freq:59.98Hz Lamp Flux:1884x1 lm		
NAME: 2214.411-2-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2212231389
MFR.: RISE	SUR.:0.005865m2	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	.128	.073	.023	.123	.070	.022	.112	.064	.021	.103	.059	.019	.094	.055	.018	
2.0	.121	.066	.020	.116	.064	.020	.108	.060	.019	.100	.056	.018	.093	.052	.017	
3.0	.114	.061	.018	.110	.059	.018	.103	.056	.017	.096	.053	.016	.090	.050	.015	
4.0	.108	.056	.016	.105	.055	.016	.099	.052	.016	.093	.050	.015	.088	.048	.014	
5.0	.102	.052	.015	.100	.051	.015	.094	.049	.014	.089	.047	.014	.085	.045	.014	
6.0	.098	.049	.014	.095	.048	.014	.091	.046	.013	.086	.045	.013	.082	.043	.013	
7.0	.093	.046	.013	.091	.045	.013	.087	.044	.013	.083	.043	.012	.080	.041	.012	
8.0	.089	.044	.012	.087	.043	.012	.084	.042	.012	.080	.041	.012	.077	.040	.012	
9.0	.085	.041	.012	.084	.041	.011	.081	.040	.011	.078	.039	.011	.075	.038	.011	
10.0	.082	.039	.011	.081	.039	.011	.078	.038	.011	.075	.037	.011	.072	.036	.010	

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	.155	.155	.155	.132	.132	.132	.090	.090	.090	.052	.052	.052	.017	.017	.017	
1.0	.138	.128	.119	.118	.110	.102	.081	.076	.071	.046	.044	.041	.015	.014	.013	
2.0	.124	.108	.094	.107	.093	.081	.073	.064	.057	.042	.037	.033	.014	.012	.011	
3.0	.113	.092	.075	.097	.080	.065	.067	.055	.046	.039	.032	.027	.012	.010	.009	
4.0	.104	.080	.062	.089	.069	.053	.061	.048	.038	.036	.028	.022	.011	.009	.007	
5.0	.096	.070	.051	.083	.061	.044	.057	.042	.031	.033	.025	.019	.011	.008	.006	
6.0	.090	.062	.043	.077	.054	.037	.053	.038	.026	.031	.022	.016	.010	.007	.005	
7.0	.084	.056	.036	.072	.049	.032	.050	.034	.022	.029	.020	.013	.009	.007	.004	
8.0	.079	.051	.031	.068	.044	.027	.047	.031	.019	.027	.018	.012	.009	.006	.004	
9.0	.075	.046	.027	.065	.040	.024	.045	.028	.017	.026	.017	.010	.008	.005	.003	
10.0	.071	.043	.024	.061	.037	.021	.043	.026	.015	.025	.015	.009	.008	.005	.003	

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C Interval: 30.0DEG  
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g Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90  
LENS: PM-1084B 36R  
DRIVER:PUP20A-1WMC 500mA  
30minutes warm-up

## UGR(Unified Glare Rating) Table

Test:U:119.91V I:0.1813A P:21.645W PF:0.9947 Freq:59.98Hz Lamp Flux:1884x1 lm										
NAME: 2214.411-2-LEA-09					TYPE:			WEIGHT:		
SPEC.:3000K					DIM.:			SERIAL No.:2212231389		
MFR.: RISE					SUR.:0.005865m2			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	12.9	13.7	13.1	13.9	14.0	13.8	14.6	14.0	14.8	14.9
3H	12.8	13.6	13.1	13.8	14.0	13.7	14.4	13.9	14.6	14.8
4H	12.8	13.5	13.0	13.7	13.9	13.6	14.3	13.9	14.5	14.7
6H	12.7	13.4	13.0	13.6	13.8	13.5	14.2	13.8	14.4	14.7
8H	12.7	13.3	13.0	13.5	13.8	13.5	14.1	13.8	14.4	14.6
12H	12.6	13.2	12.9	13.5	13.8	13.4	14.0	13.7	14.3	14.6
4H 2H	12.8	13.5	13.0	13.7	13.9	13.6	14.3	13.9	14.5	14.7
3H	12.7	13.3	13.0	13.5	13.8	13.5	14.1	13.8	14.4	14.6
4H	12.6	13.2	12.9	13.5	13.8	13.4	14.0	13.7	14.2	14.6
6H	12.5	13.0	12.9	13.3	13.7	13.3	13.8	13.7	14.1	14.5
8H	12.5	12.9	12.9	13.3	13.7	13.3	13.7	13.7	14.1	14.4
12H	12.4	12.9	12.8	13.2	13.6	13.2	13.6	13.6	14.0	14.4
8H 4H	12.5	12.9	12.9	13.3	13.6	13.3	13.7	13.7	14.1	14.4
6H	12.4	12.8	12.8	13.2	13.6	13.2	13.5	13.6	13.9	14.4
8H	12.4	12.7	12.8	13.1	13.5	13.1	13.5	13.6	13.9	14.3
12H	12.3	12.6	12.8	13.0	13.5	13.1	13.4	13.5	13.8	14.3
12H 4H	12.4	12.8	12.8	13.2	13.6	13.2	13.6	13.6	14.0	14.4
6H	12.3	12.7	12.8	13.1	13.5	13.1	13.4	13.6	13.9	14.3
8H	12.3	12.6	12.8	13.0	13.5	13.1	13.4	13.5	13.8	14.3
Variations with the observer position at spacings:										
S = 1.0H	+ 2.4 / - 5.6					+ 3.3 / - 6.7				
1.5H	+ 3.8 / - 4.2					+ 4.9 / - 5.6				
2.0H	+ 4.2 / - 3.7					+ 5.2 / - 4.7				

CIE Pub.117, 1884 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 2.2$ )  
Area: 0.005865 m2

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
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Humidity:65.0%  
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30minutes warm-up



### UTILIZATION FACTORS TABLE

Test:U:119.91V I:0.1813A P:21.645W PF:0.9947 Freq:59.98Hz Lamp Flux:1884x1 lm		
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SPEC.:3000K	DIM.:	SERIAL No.:2212231389
MFR.: RISE	SUR.:0.005865m2	Shielding Angle:

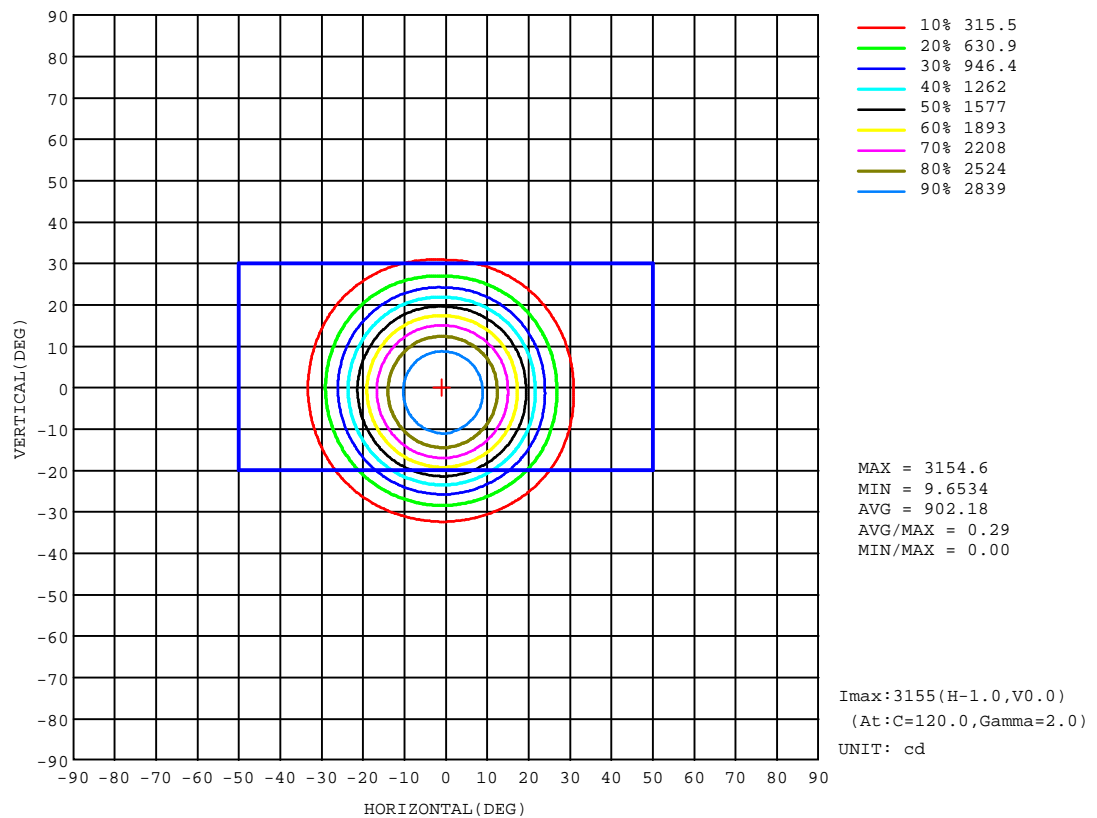
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	73	68	65	72	68	65	72	67	65	62
0.80	78	74	71	78	74	71	77	73	71	68
1.00	82	78	75	81	77	75	80	77	74	71
1.25	85	81	78	84	80	78	82	79	77	74
1.50	87	83	81	86	83	80	84	82	79	76
2.00	89	86	83	88	85	83	86	83	81	77
2.50	90	87	85	89	86	84	86	84	83	78
3.00	91	89	87	90	88	86	87	85	84	79
4.00	93	91	89	91	89	88	88	87	86	80
5.00	94	92	91	92	91	89	89	88	87	81
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.:3000K	DIM.:	SERIAL No.:2212231389
MFR.: RISE	SUR.:0.005865m2	Shielding Angle:

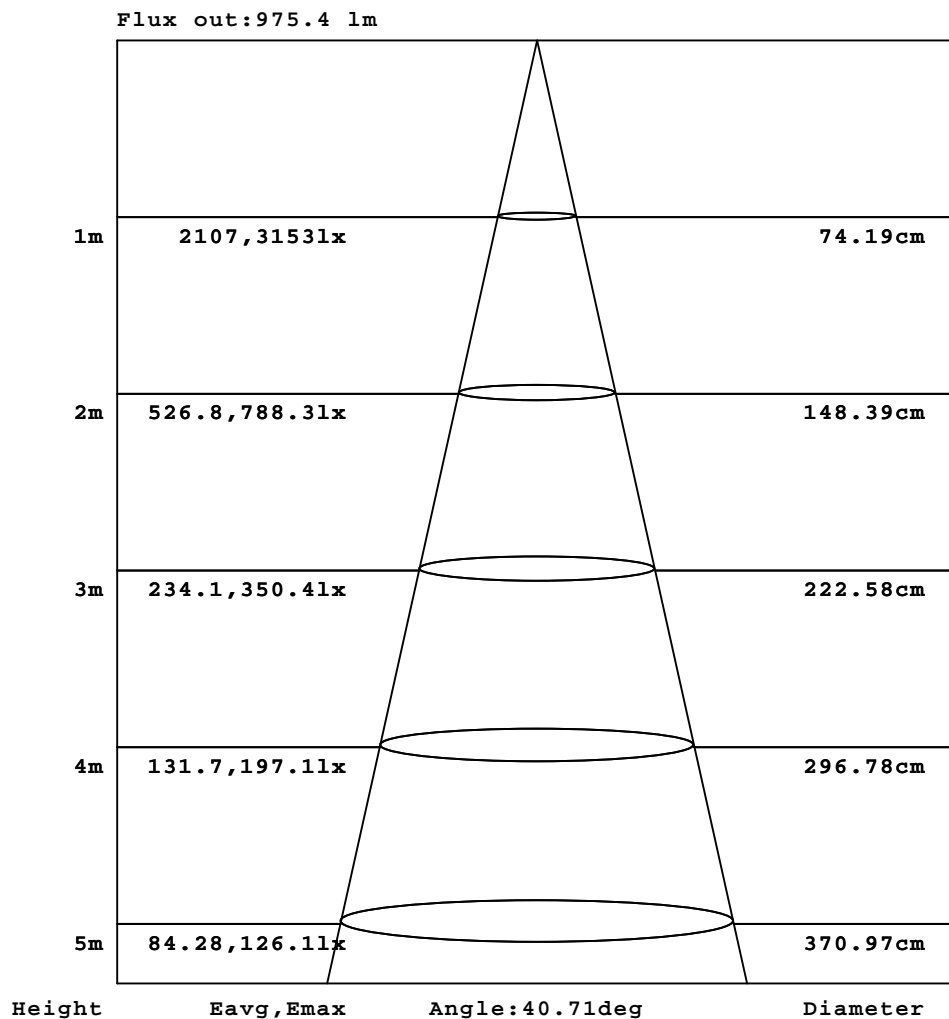


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## AAI Figure

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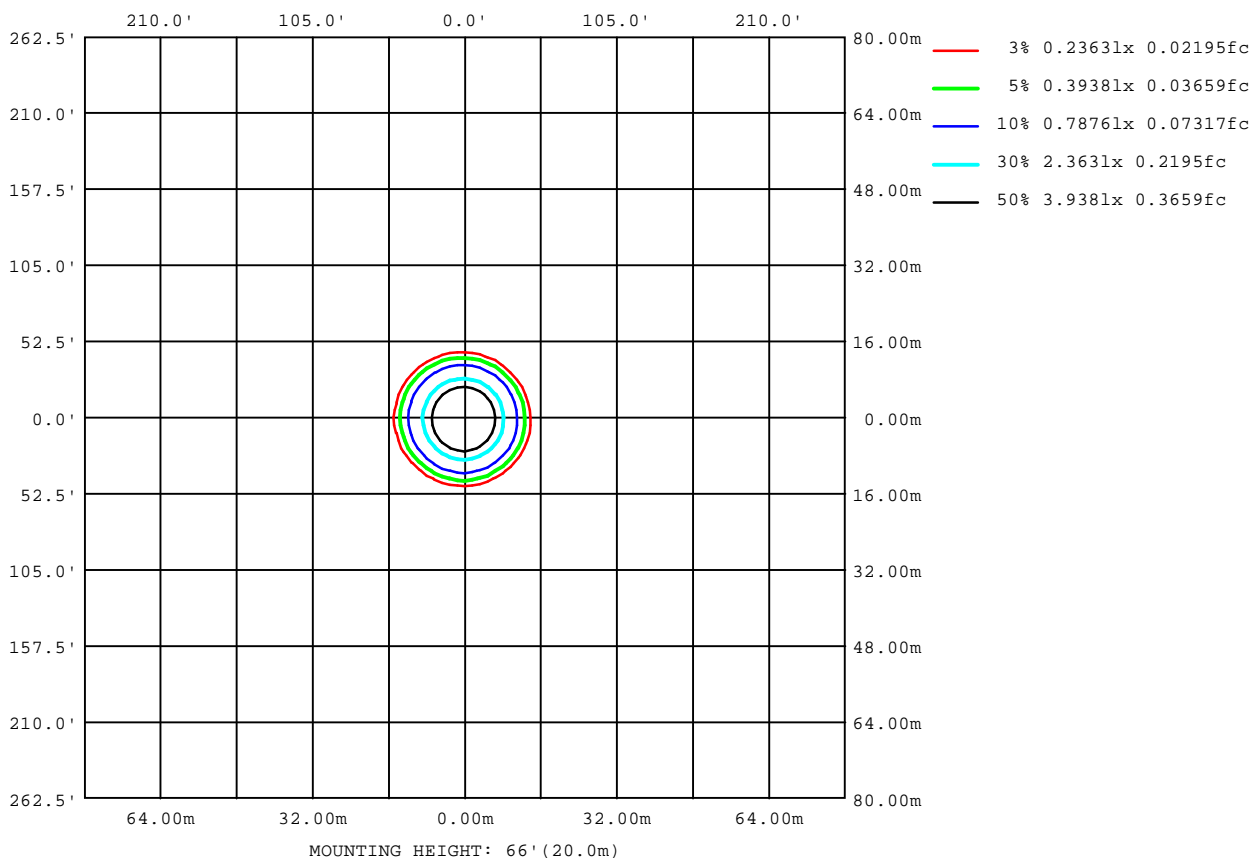
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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C Interval: 30.0DEG  
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30minutes warm-up

## ISOLUX DIAGRAM

Test:U:119.91V I:0.1813A P:21.645W PF:0.9947 Freq:59.98Hz Lamp Flux:1884x1 lm		
NAME: 2214.411-2-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2212231389
MFR.: RISE	SUR.:0.005865m2	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Zoe  
Test Date:2022-12-26

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90  
LENS: PM-1084B 36R  
DRIVER:PUP20A-1WMC 500mA  
30minutes warm-up

## LED Avg.L Report

Test:U:119.91V I:0.1813A P:21.645W PF:0.9947 Freq:59.98Hz Lamp Flux:1884x1 lm		
NAME: 2214.411-2-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2212231389
MFR.: RISE	SUR.:0.005865m2	Shielding Angle:

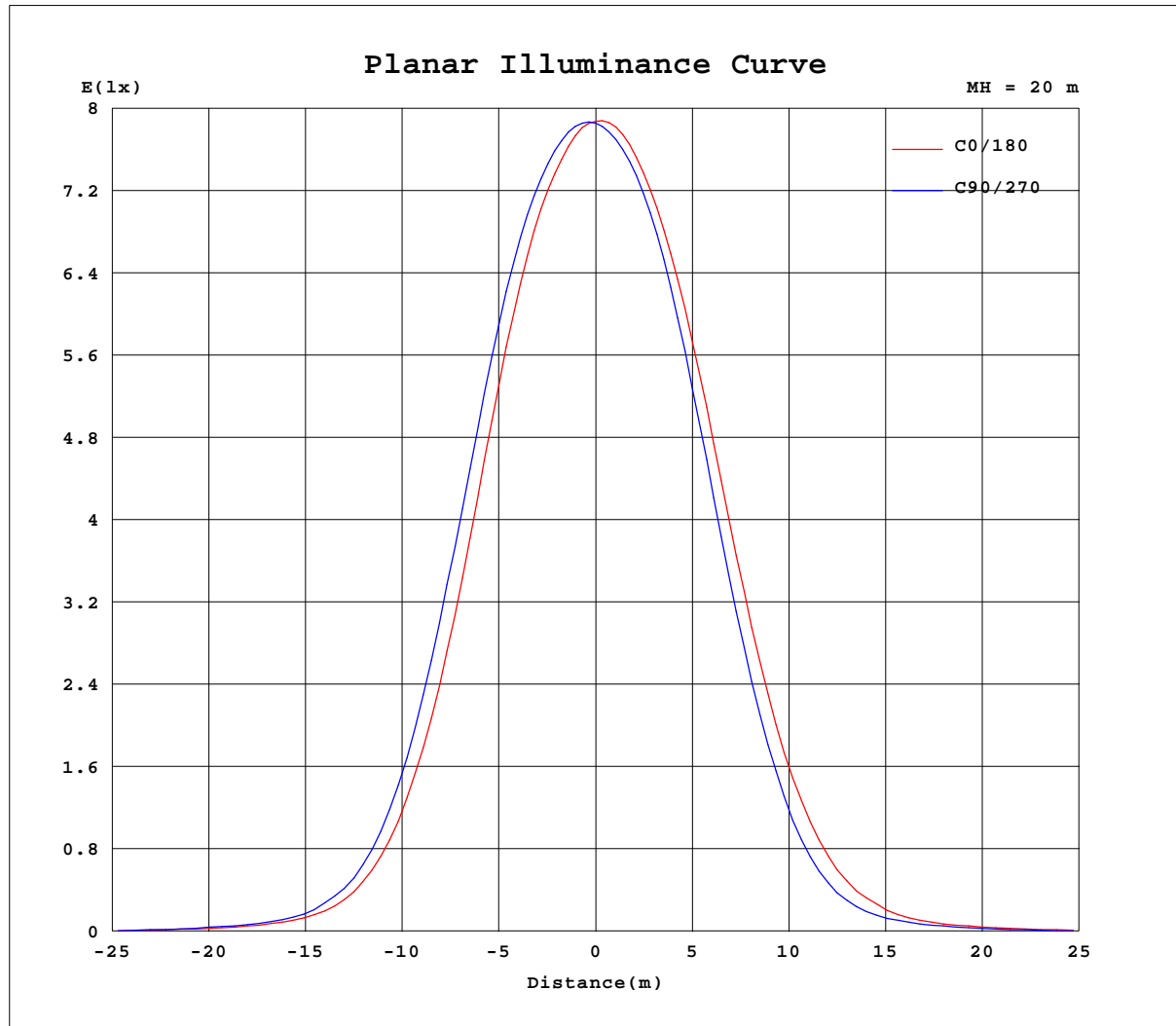
AvgL	cd/m2
L_0~180(65)av	1673
L_0~180(75)av	913
L_0~180(85)av	602
L_90~270(65)av	1315
L_90~270(75)av	668
L_90~270(85)av	859
L_45(65)av	1799
L_45(75)av	888
L_45(85)av	754

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Zoe  
Test Date:2022-12-26

g Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90  
LENS: PM-1084B 36R  
DRIVER:PUP20A-1WMC 500mA  
30minutes warm-up

## Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Zoe  
 Test Date: 2022-12-26

g Range: 0 - 180DEG  
 g Interval: 1.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
 Humidity: 65.0%  
 Test Distance: 3.160m [K=1.0000]  
 Remarks: LAMP: CMA1306-0000-000F0U0A30G Ra:90  
 LENS: PM-1084B 36R  
 DRIVER: PUP20A-1WMC 500mA  
 30minutes warm-up

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.91V I:0.1813A P:21.645W PF:0.9947 Freq:59.98Hz Lamp Flux:1884x1 lm		
NAME: 2214.411-2-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2212231389
MFR.: RISE	SUR.:0.005865m2	Shielding Angle:

Table--1

UNIT: cd

C(°) g (°)	0	30	60	90	120	150	180	210	240	270	300	330						
0	3145	3145	3145	3145	3145	3145	3145	3145	3145	3145	3145	3145						
5	3033	3067	3094	3112	3115	3104	3091	3064	3045	3032	3027	3022						
10	2746	2807	2857	2918	2919	2891	2852	2817	2778	2738	2716	2734						
15	2200	2291	2387	2481	2494	2458	2407	2331	2269	2197	2164	2180						
20	1481	1590	1687	1803	1823	1788	1763	1666	1597	1502	1468	1465						
25	827	900	970	1067	1088	1075	1079	1002	923	840	803	807						
30	369	422	445	493	508	523	549	496	433	363	348	348						
35	148	169	178	204	207	226	241	209	176	143	136	138						
40	70.2	76.6	82.6	87.3	91.2	97.4	99.6	89.3	78.4	67.6	64.2	64.7						
45	38.9	43.0	46.3	48.4	51.4	53.6	52.8	48.4	44.4	38.2	38.1	38.1						
50	21.0	24.6	26.0	22.7	29.1	30.7	27.8	27.6	24.8	17.6	21.5	21.7						
55	9.83	12.4	11.7	10.5	12.8	15.4	12.4	13.9	11.6	9.71	10.3	11.3						
60	6.41	7.23	6.96	5.94	7.44	8.45	7.62	8.08	7.26	5.48	6.50	7.09						
65	3.91	4.53	4.01	3.37	4.14	5.04	4.38	4.80	4.13	3.15	3.89	4.45						
70	2.34	2.67	2.28	2.01	2.30	2.89	2.62	2.76	2.30	1.86	2.24	2.60						
75	1.35	1.53	1.19	1.03	1.17	1.50	1.42	1.49	1.18	1.00	1.17	1.43						
80	0.67	0.72	0.58	0.50	0.55	0.46	0.67	0.71	0.59	0.59	0.61	0.70						
85	0.31	0.36	0.40	0.41	0.38	0.30	0.30	0.35	0.44	0.47	0.46	0.39						
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:25.3DEG  
Operators:Zoe  
Test Date:2022-12-26

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
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