

## Luminaire Photograph



Light Output Ratio:	82.3%	
Luminaire Power:	21.64 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	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-1084A 24R  
DRIVER: PUP20A-1WMC 500mA  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

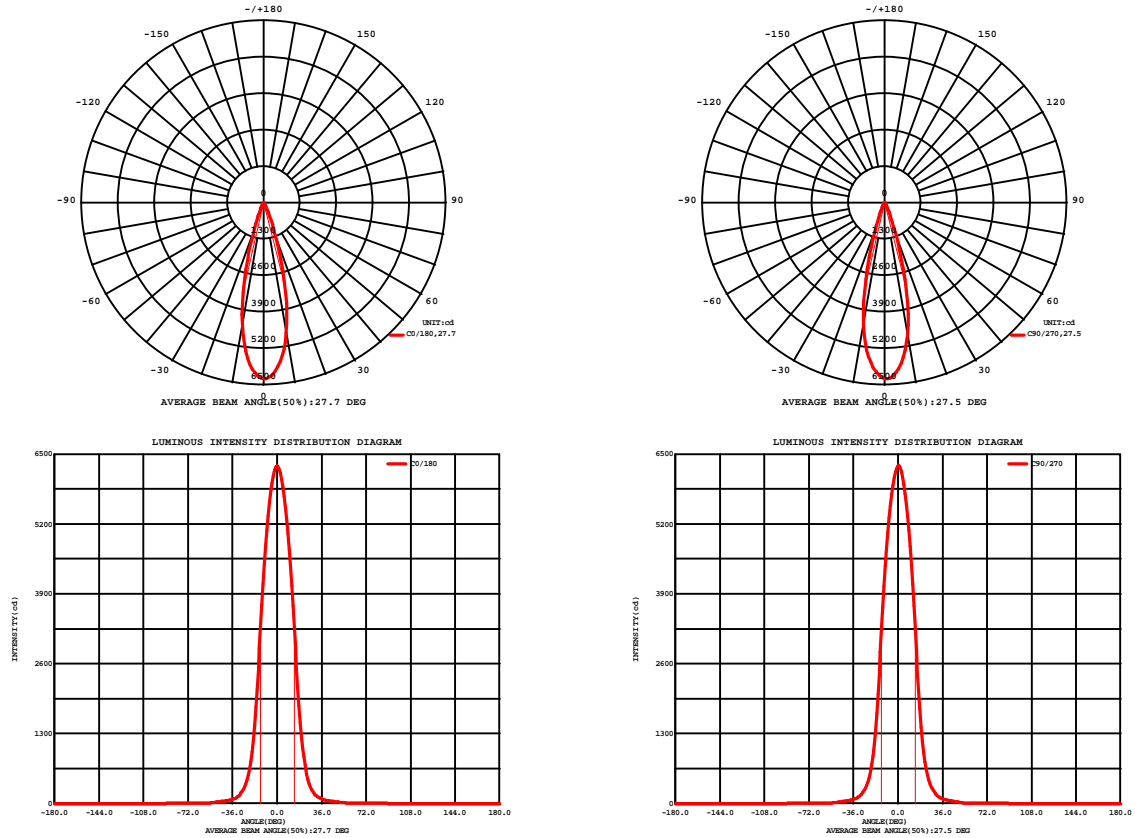


Fig. C0/C180

Fig. C90/C270

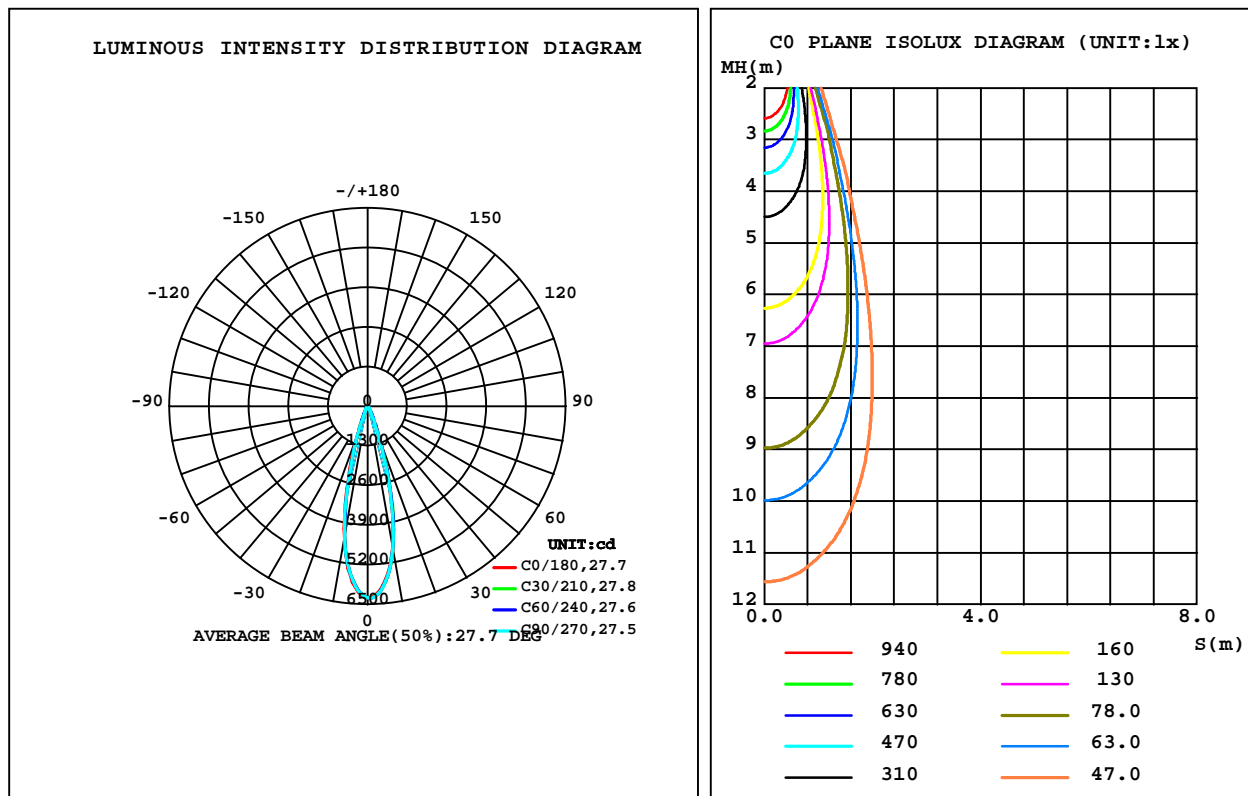
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Zoe  
Test Date: 2022-12-26

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-1084A 24R  
DRIVER: PUP20A-1WMC 500mA  
30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.91V I:0.1812A P:21.639W PF:0.9948 Freq:59.98Hz Lamp Flux:1884x1 lm		
NAME: 2214.411-2-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2212261388
MFR.: RISE	SUR.:0.005865m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 71.67 lm/W			
MODEL	CREE	I <sub>max</sub> (cd)	6291	S/MH(C0/180)	0.44
NOMINAL POWER(W)	22	LOR(%)	82.3	S/MH(C90/270)	0.42
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1550.9	h UP,DN(C0-180)	0.0,43.0
NOMINAL FLUX(lm)	1884	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,39.3
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	120	h down(%)	82.3	CIBSE SHR MAX	1.00



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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-1084A 24R  
DRIVER:PUP20A-1WMC 500mA  
30minutes warm-up

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

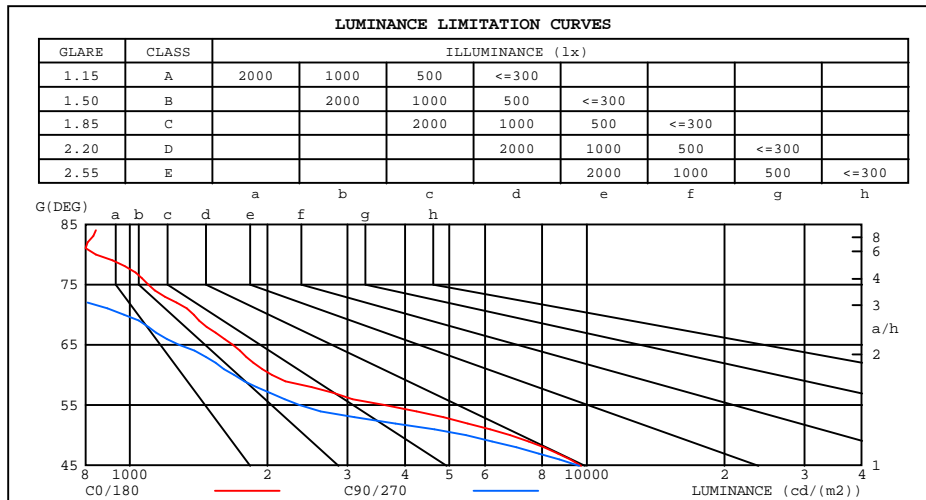
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	4722	4802	4784	4570	4447	4378	4409	4622	0- 10	517.8	517.8	33.4,27.5
20	1244	1283	1160	1008	961.9	901.9	891.6	1094	10- 20	717.7	1235	79.7,65.6
30	189.1	209.6	201.2	166.2	159.1	156.9	156.5	165.5	20- 30	207.0	1442	93,76.6
40	58.85	63.83	63.55	55.99	51.93	51.90	52.67	54.68	30- 40	61.20	1504	97,79.8
50	25.68	27.87	20.53	24.97	22.44	22.64	18.26	25.84	40- 50	30.01	1534	98.9,81.4
60	6.021	6.328	4.959	5.697	5.213	5.477	4.835	6.356	50- 60	11.41	1545	99.6,82
70	2.775	2.651	1.952	2.363	2.295	2.372	2.039	2.751	60- 70	3.870	1549	99.9,82.2
80	0.8595	0.6828	0.5201	0.5913	0.6474	0.6744	0.6154	0.7436	70- 80	1.505	1550	100,82.3
90	0	0	0	0	0	0	0	0	80- 90	0.4184	1551	100,82.3
100	0	0	0	0	0	0	0	0	90-100	0	1551	100,82.3
110	0	0	0	0	0	0	0	0	100-110	0	1551	100,82.3
120	0	0	0	0	0	0	0	0	110-120	0	1551	100,82.3
130	0	0	0	0	0	0	0	0	120-130	0	1551	100,82.3
140	0	0	0	0	0	0	0	0	130-140	0	1551	100,82.3
150	0	0	0	0	0	0	0	0	140-150	0	1551	100,82.3
160	0	0	0	0	0	0	0	0	150-160	0	1551	100,82.3
170	0	0	0	0	0	0	0	0	160-170	0	1551	100,82.3
180	0	0	0	0	0	0	0	0	170-180	0	1551	100,82.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Temperature:25.3DEG  
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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-1084A 24R  
DRIVER:PUP20A-1WMC 500mA  
30minutes warm-up

## LUMINANCE LIMITATION CURVES

Test:U:119.91V I:0.1812A P:21.639W PF:0.9948 Freq:59.98Hz Lamp Flux:1884x1 lm		
NAME: 2214.411-2-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2212261388
MFR.: RISE	SUR.:0.005865m2	Shielding Angle:



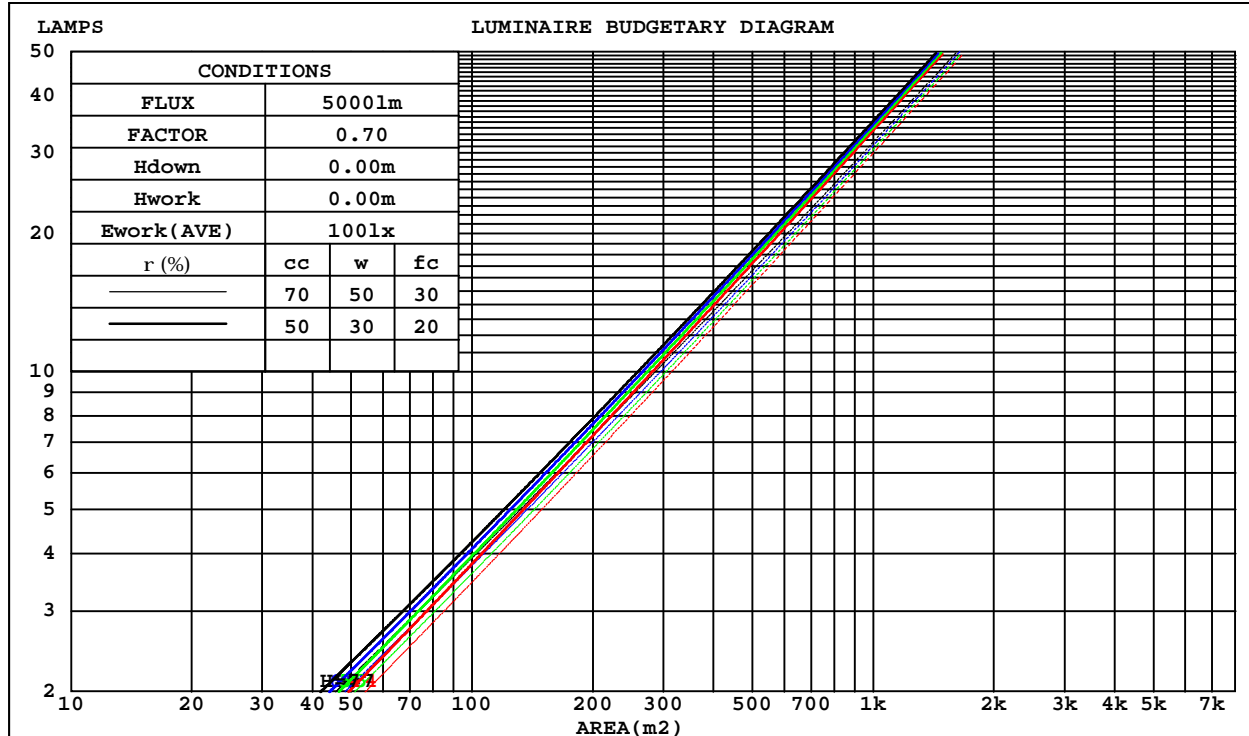
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## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	DIM.:	SERIAL No.:2212261388
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-1084A 24R  
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30minutes warm-up

### WEC AND CCEC

Test:U:119.91V I:0.1812A P:21.639W PF:0.9948 Freq:59.98Hz Lamp Flux:1884x1 lm		
NAME: 2214.411-2-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2212261388
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	.115	.066	.021	.110	.063	.020	.100	.057	.018	.090	.052	.017	.082	.047	.015	
2.0	.107	.059	.018	.103	.057	.017	.094	.052	.016	.087	.049	.015	.079	.045	.014	
3.0	.100	.053	.016	.096	.052	.016	.089	.048	.015	.083	.045	.014	.077	.042	.013	
4.0	.094	.049	.014	.091	.047	.014	.085	.045	.013	.079	.043	.013	.074	.040	.012	
5.0	.088	.045	.013	.086	.044	.013	.081	.042	.012	.076	.040	.012	.072	.038	.011	
6.0	.084	.042	.012	.081	.041	.012	.077	.039	.011	.073	.038	.011	.069	.036	.011	
7.0	.079	.039	.011	.077	.039	.011	.074	.037	.011	.070	.036	.010	.067	.035	.010	
8.0	.076	.037	.010	.074	.036	.010	.071	.035	.010	.067	.034	.010	.065	.033	.010	
9.0	.072	.035	.010	.071	.034	.010	.068	.034	.010	.065	.033	.009	.062	.032	.009	
10.0	.069	.033	.009	.068	.033	.009	.065	.032	.009	.063	.031	.009	.060	.030	.009	

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	.157	.157	.157	.134	.134	.134	.091	.091	.091	.053	.053	.053	.017	.017	.017	
1.0	.139	.130	.122	.119	.111	.105	.081	.077	.072	.047	.044	.042	.015	.014	.014	
2.0	.124	.109	.097	.106	.094	.084	.073	.065	.058	.042	.038	.034	.013	.012	.011	
3.0	.112	.093	.078	.096	.080	.068	.066	.056	.048	.038	.033	.028	.012	.011	.009	
4.0	.102	.081	.065	.087	.070	.056	.060	.049	.040	.035	.028	.023	.011	.009	.008	
5.0	.093	.071	.054	.080	.061	.047	.055	.043	.033	.032	.025	.020	.010	.008	.006	
6.0	.086	.062	.045	.074	.054	.040	.051	.038	.028	.030	.022	.017	.010	.007	.006	
7.0	.080	.056	.039	.069	.048	.034	.047	.034	.024	.028	.020	.014	.009	.007	.005	
8.0	.074	.050	.033	.064	.043	.029	.044	.031	.021	.026	.018	.012	.008	.006	.004	
9.0	.070	.045	.029	.060	.039	.025	.042	.028	.018	.024	.016	.011	.008	.005	.004	
10.0	.066	.042	.026	.057	.036	.022	.039	.025	.016	.023	.015	.009	.007	.005	.003	

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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-1084A 24R  
DRIVER:PUP20A-1WMC 500mA  
30minutes warm-up

## UGR(Unified Glare Rating) Table

Test:U:119.91V I:0.1812A P:21.639W PF:0.9948 Freq:59.98Hz Lamp Flux:1884x1 lm										
NAME: 2214.411-2-LEA-09					TYPE:			WEIGHT:		
SPEC.:3000K					DIM.:			SERIAL No.:2212261388		
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	11.0	11.7	11.2	11.8	12.0	10.9	11.5	11.1	11.7	11.8
3H	11.0	11.6	11.2	11.8	12.0	10.8	11.4	11.0	11.6	11.8
4H	11.0	11.6	11.2	11.8	12.0	10.7	11.3	11.0	11.6	11.8
6H	10.9	11.5	11.2	11.7	12.0	10.7	11.2	11.0	11.5	11.7
8H	10.9	11.4	11.2	11.7	11.9	10.6	11.2	10.9	11.4	11.7
12H	10.9	11.4	11.2	11.6	11.9	10.6	11.1	10.9	11.4	11.7
4H 2H	10.9	11.5	11.2	11.7	11.9	10.8	11.4	11.0	11.6	11.8
3H	10.9	11.4	11.2	11.7	12.0	10.7	11.2	11.0	11.5	11.8
4H	10.9	11.4	11.2	11.7	12.0	10.7	11.1	11.0	11.4	11.7
6H	10.9	11.3	11.2	11.6	12.0	10.6	11.0	10.9	11.3	11.7
8H	10.8	11.2	11.2	11.6	11.9	10.5	10.9	10.9	11.3	11.6
12H	10.8	11.2	11.2	11.5	11.9	10.5	10.9	10.9	11.2	11.6
8H 4H	10.8	11.2	11.2	11.5	11.9	10.5	10.9	10.9	11.3	11.6
6H	10.7	11.1	11.2	11.5	11.9	10.5	10.8	10.9	11.2	11.6
8H	10.7	11.0	11.2	11.4	11.9	10.4	10.7	10.9	11.1	11.6
12H	10.7	10.9	11.1	11.4	11.8	10.4	10.6	10.9	11.1	11.5
12H 4H	10.7	11.1	11.1	11.5	11.8	10.5	10.9	10.9	11.2	11.6
6H	10.7	11.0	11.1	11.4	11.8	10.4	10.7	10.8	11.1	11.5
8H	10.7	10.9	11.1	11.3	11.8	10.4	10.6	10.8	11.1	11.5
Variations with the observer position at spacings:										
S = 1.0H	+ 1.9 / - 4.2					+ 2.1 / - 5.6				
1.5H	+ 2.3 / - 2.5					+ 2.7 / - 3.7				
2.0H	+ 3.9 / - 4.4					+ 4.4 / - 5.0				

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%  
Test Distance:3.160m [K=1.0000]  
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30minutes warm-up



### UTILIZATION FACTORS TABLE

Test:U:119.91V I:0.1812A P:21.639W PF:0.9948 Freq:59.98Hz Lamp Flux:1884x1 lm		
NAME: 2214.411-2-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2212261388
MFR.: RISE	SUR.:0.005865m2	Shielding Angle:

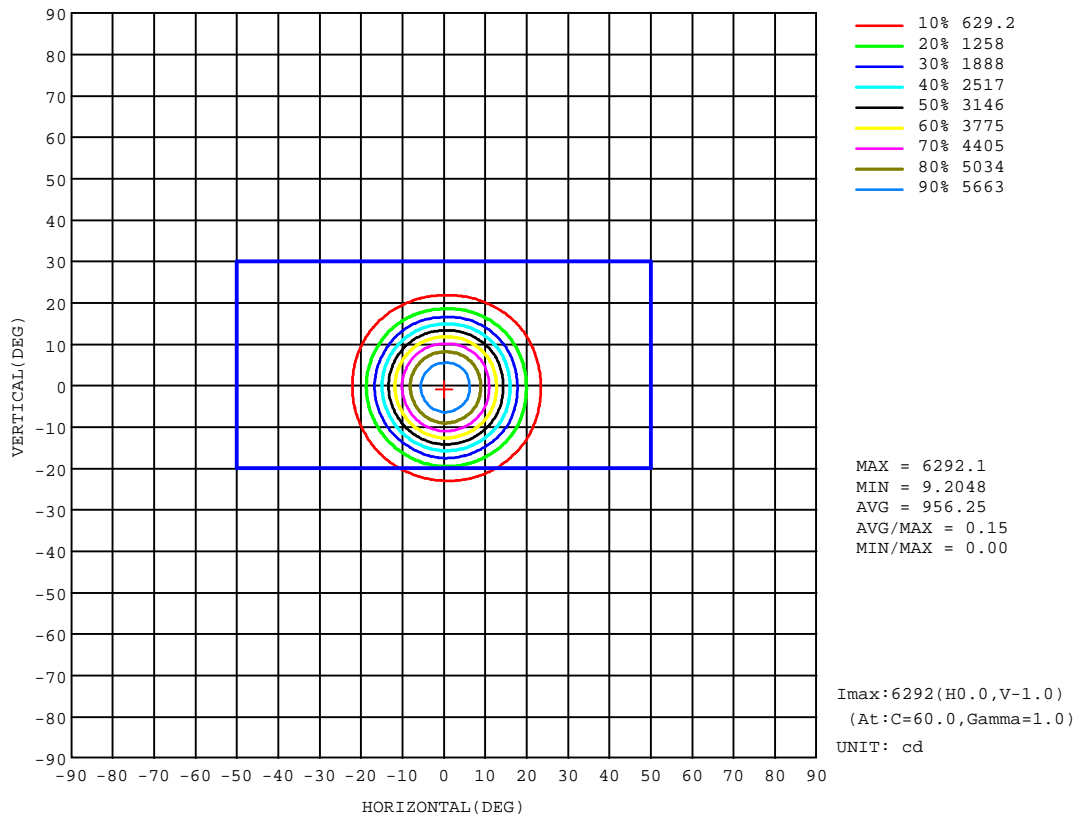
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	74	69	66	73	69	66	73	68	66	63
0.80	80	75	72	79	75	72	78	74	72	69
1.00	83	79	76	82	78	76	81	78	75	72
1.25	86	82	79	85	82	79	84	81	78	75
1.50	88	84	82	87	84	82	85	83	81	77
2.00	90	87	84	89	86	84	87	84	82	78
2.50	91	88	86	90	87	85	87	85	84	79
3.00	92	90	88	91	89	87	88	87	85	80
4.00	94	92	90	92	91	89	89	88	87	81
5.00	95	93	92	93	92	91	90	89	88	82
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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 30minutes warm-up

## ISOCANDELA DIAGRAM

Test:U:119.91V I:0.1812A P:21.639W PF:0.9948 Freq:59.98Hz Lamp Flux:1884x1 lm		
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SPEC.:3000K	DIM.:	SERIAL No.:2212261388
MFR.: RISE	SUR.:0.005865m2	Shielding Angle:

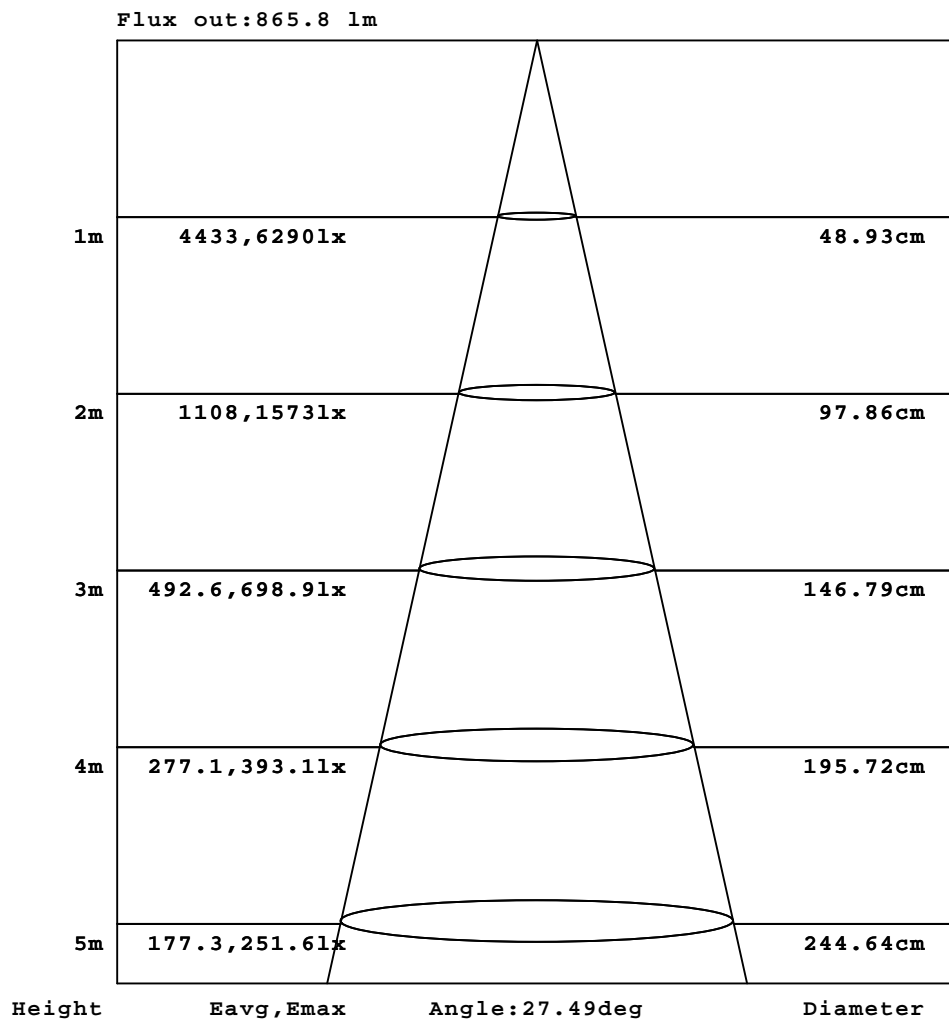


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## AAI Figure

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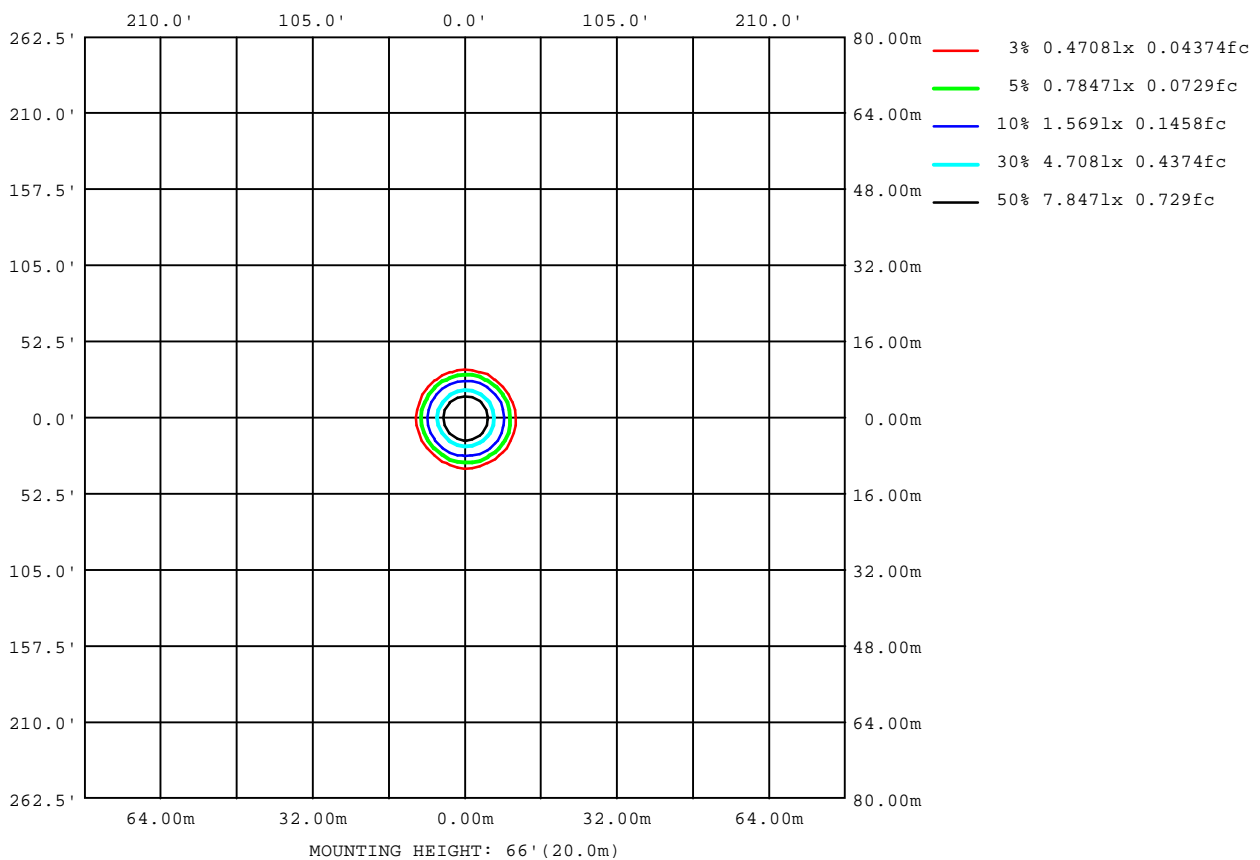
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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30minutes warm-up

## ISOLUX DIAGRAM

Test:U:119.91V I:0.1812A P:21.639W PF:0.9948 Freq:59.98Hz Lamp Flux:1884x1 lm		
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SPEC.:3000K	DIM.:	SERIAL No.:2212261388
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-1084A 24R  
DRIVER:PUP20A-1WMC 500mA  
30minutes warm-up

## LED Avg.L Report

Test:U:119.91V I:0.1812A P:21.639W PF:0.9948 Freq:59.98Hz Lamp Flux:1884x1 lm		
NAME: 2214.411-2-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2212261388
MFR.: RISE	SUR.:0.005865m2	Shielding Angle:

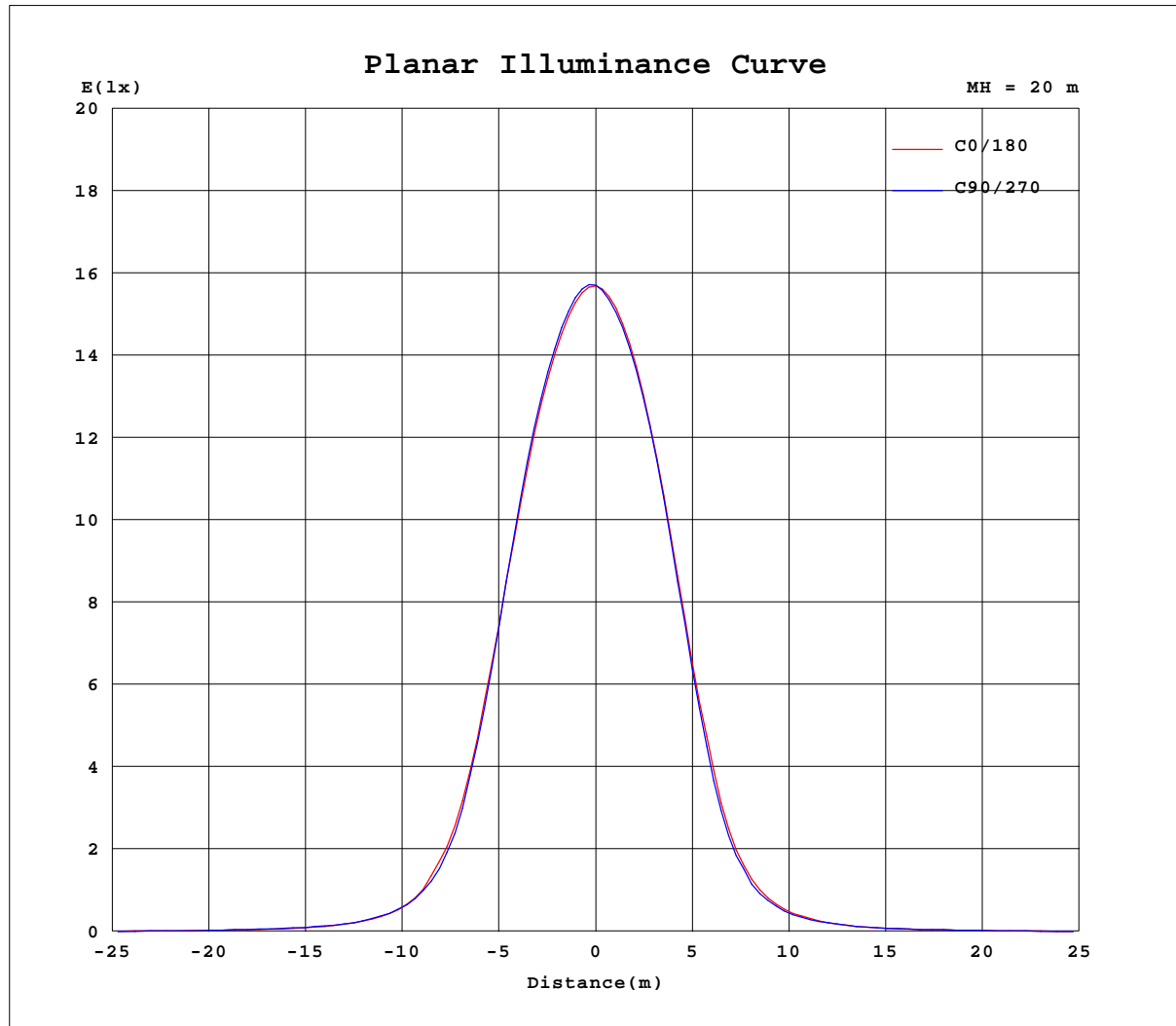
AvgL	cd/m2
L_0~180(65)av	1575
L_0~180(75)av	983
L_0~180(85)av	634
L_90~270(65)av	1287
L_90~270(75)av	704
L_90~270(85)av	931
L_45(65)av	1638
L_45(75)av	933
L_45(85)av	780

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-1084A 24R  
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-1084A 24R  
 DRIVER: PUP20A-1WMC 500mA  
 30minutes warm-up

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.91V I:0.1812A P:21.639W PF:0.9948 Freq:59.98Hz Lamp Flux:1884x1 lm		
NAME: 2214.411-2-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2212261388
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	6284	6284	6284	6284	6284	6284	6284	6284	6284	6284	6284	6284						
5	5882	5947	5932	5936	5877	5805	5789	5724	5726	5740	5801	5869						
10	4722	4807	4796	4784	4647	4493	4447	4378	4378	4409	4554	4691						
15	2895	2993	2934	2844	2667	2509	2486	2407	2389	2414	2625	2829						
20	1244	1327	1239	1160	1039	978	962	908	896	892	1021	1167						
25	447	489	462	436	388	368	363	339	339	334	367	408						
30	189	213	206	201	173	159	159	155	159	156	162	169						
35	97.7	107	106	103	92.2	84.0	83.6	83.7	84.3	85.0	86.4	90.2						
40	58.9	63.5	64.1	63.5	58.0	54.0	51.9	51.1	52.7	52.7	53.9	55.5						
45	40.4	42.8	43.4	40.0	40.1	38.3	36.3	35.0	36.1	34.6	37.7	39.4						
50	25.7	28.2	27.5	20.5	25.3	24.7	22.4	22.3	23.0	18.3	24.9	26.8						
55	12.2	15.6	13.6	7.92	11.4	13.0	9.44	11.7	11.3	8.03	12.4	15.1						
60	6.02	6.74	5.92	4.96	5.45	5.94	5.21	5.61	5.34	4.83	5.78	6.94						
65	4.18	4.49	3.88	3.18	3.61	4.05	3.63	3.90	3.63	3.20	3.91	4.56						
70	2.77	2.96	2.34	1.95	2.18	2.54	2.29	2.49	2.26	2.04	2.44	3.06						
75	1.67	1.71	1.23	1.03	1.13	1.36	1.32	1.43	1.24	1.11	1.32	1.78						
80	0.86	0.80	0.57	0.52	0.55	0.64	0.65	0.71	0.64	0.62	0.65	0.84						
85	0.36	0.33	0.39	0.43	0.41	0.34	0.29	0.39	0.49	0.52	0.48	0.36						
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  
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Test Date:2022-12-26

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