

## Luminaire Photograph



Light Output Ratio:	79.8%	
Luminaire Power:	8.289 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: 25.3 °C  
Operators: zoe  
Test Date: 2023-8-7

γ Range: 0 - 180DEG  
γ 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: CXB1304-0000-000F0UA430G Ra:90  
LENS: PM-1084B 36R  
DRIVER: 9290 028 088 350mA  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

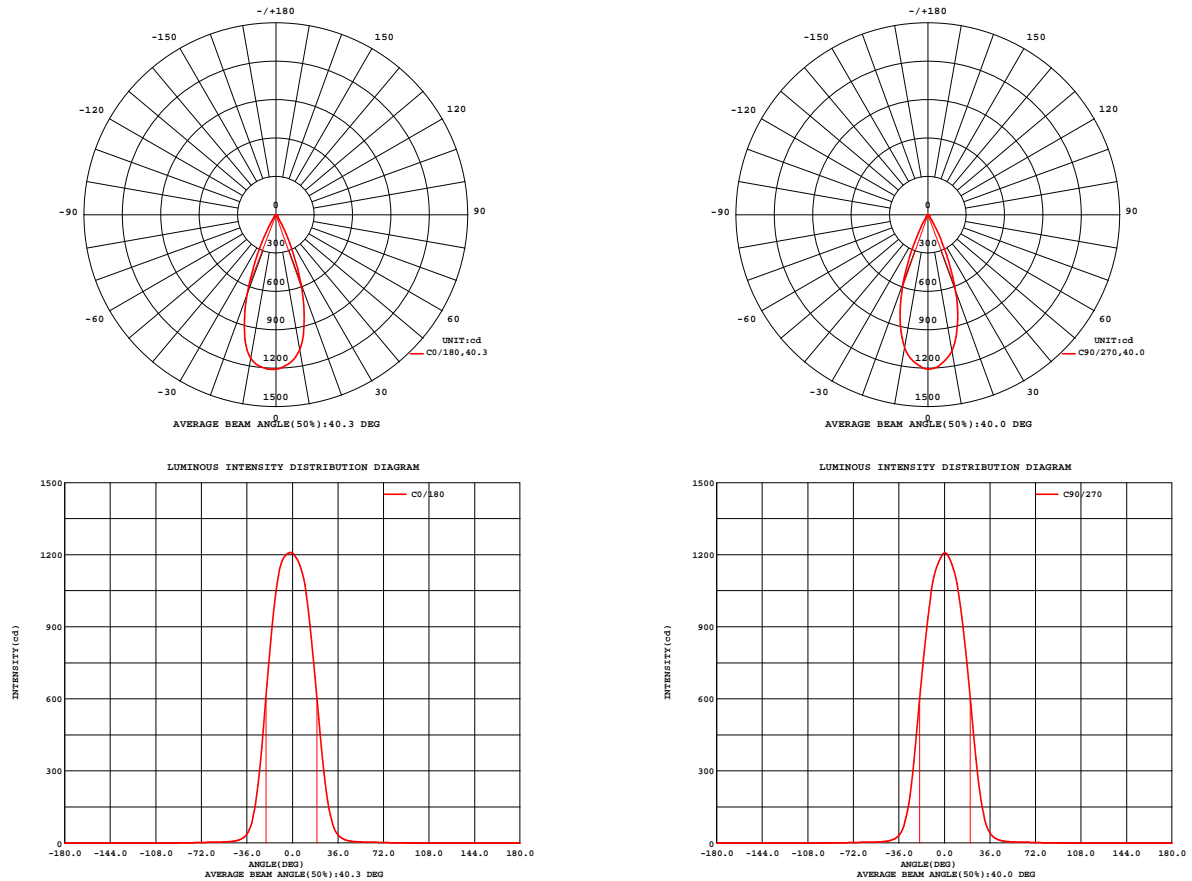


Fig. C0/C180

Fig. C90/C270

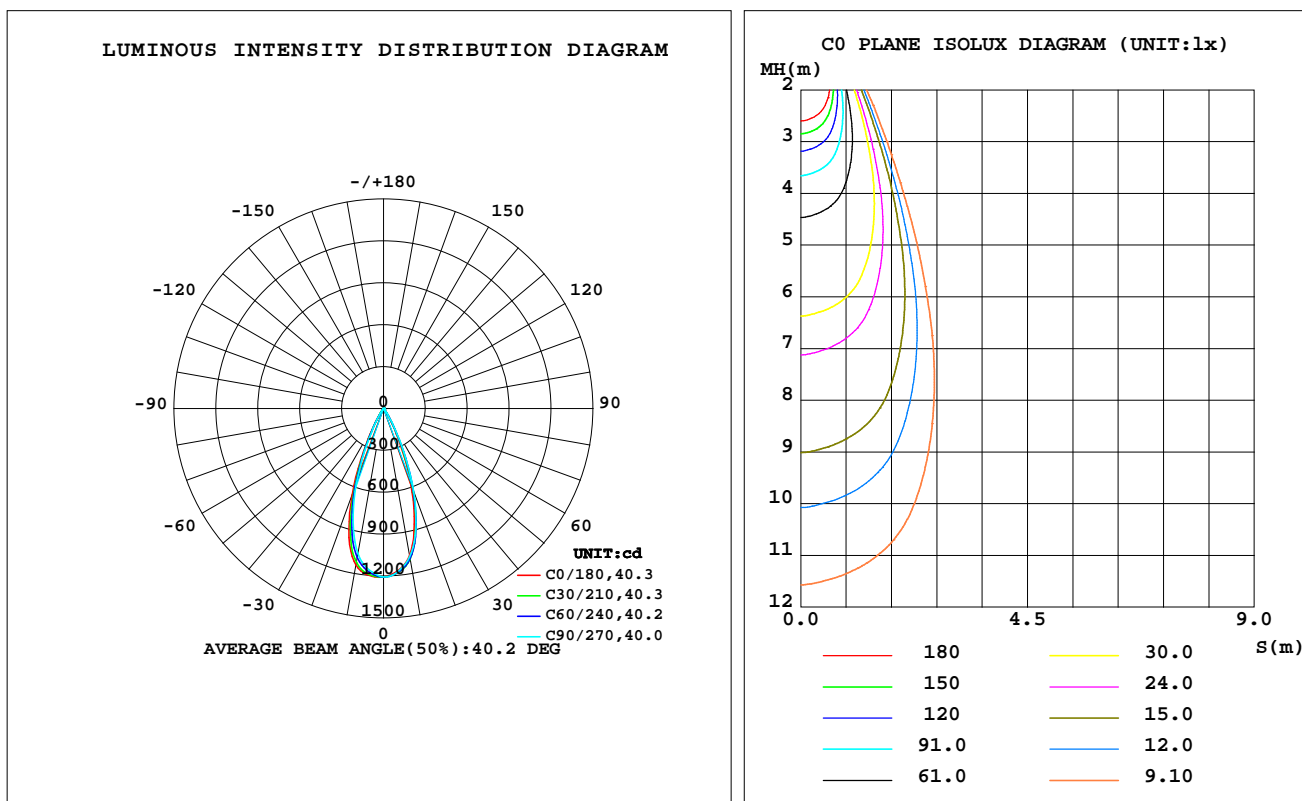
C Range: 0 - 360DEG  
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Temperature: 25.3 °C  
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DRIVER: 9290 028 088 350mA  
30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.16V I:0.0399A P:8.2892W PF:0.9398 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2218.511-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308070990
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 66.05 lm/W			
MODEL	CREE	I <sub>max</sub> (cd)	1209	S/MH(C0/180)	0.63
NOMINAL POWER(W)	8	LOR(%)	79.8	S/MH(C90/270)	0.61
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	547.46	η UP,DN(C0-180)	0.0,40.9
NOMINAL FLUX(lm)	685.66	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,38.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	79.8	CIBSE SHR MAX	0.65



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30minutes warm-up

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	1072	1095	1080	1104	1139	1103	1056	1049	0- 10	109.5	109.5	20,16
20	573.4	617.1	635.4	652.8	661.0	607.6	570.2	560.3	10- 20	240.3	349.9	63.9,51
30	116.1	134.3	145.7	144.4	132.2	118.1	108.1	110.8	20- 30	148.8	498.7	91.1,72.7
40	17.91	20.43	21.25	19.76	17.85	16.40	15.61	16.30	30- 40	32.73	531.4	97.1,77.5
50	5.622	5.927	6.030	5.789	5.518	5.279	5.181	5.467	40- 50	7.447	538.9	98.4,78.6
60	3.452	3.391	3.390	3.424	3.380	3.270	3.244	3.404	50- 60	3.787	542.7	99.1,79.1
70	2.358	2.372	2.392	2.430	2.388	2.269	2.249	2.333	60- 70	2.869	545.5	99.6,79.6
80	0.7413	0.7793	0.8344	0.8744	0.8992	0.8220	0.7728	0.7560	70- 80	1.678	547.2	100,79.8
90	0	0	0	0	0	0	0	0	80- 90	0.2576	547.5	100,79.8
100	0	0	0	0	0	0	0	0	90-100	0	547.5	100,79.8
110	0	0	0	0	0	0	0	0	100-110	0	547.5	100,79.8
120	0	0	0	0	0	0	0	0	110-120	0	547.5	100,79.8
130	0	0	0	0	0	0	0	0	120-130	0	547.5	100,79.8
140	0	0	0	0	0	0	0	0	130-140	0	547.5	100,79.8
150	0	0	0	0	0	0	0	0	140-150	0	547.5	100,79.8
160	0	0	0	0	0	0	0	0	150-160	0	547.5	100,79.8
170	0	0	0	0	0	0	0	0	160-170	0	547.5	100,79.8
180	0	0	0	0	0	0	0	0	170-180	0	547.5	100,79.8
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3 °C  
Operators:zoe  
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$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:CXB1304-0000-000F0UA430G Ra:90  
LENS: PM-1084B 36R  
DRIVER:9290 028 088 350mA  
30minutes warm-up

### LUMINANCE LIMITATION CURVES

Test:U:220.16V I:0.0399A P:8.2892W PF:0.9398 Freq:49.99Hz  
Lamp Flux:685.66x1 lm

NAME: 2218.511-ACOT-96

TYPE:

WEIGHT:

SPEC.: 3000K

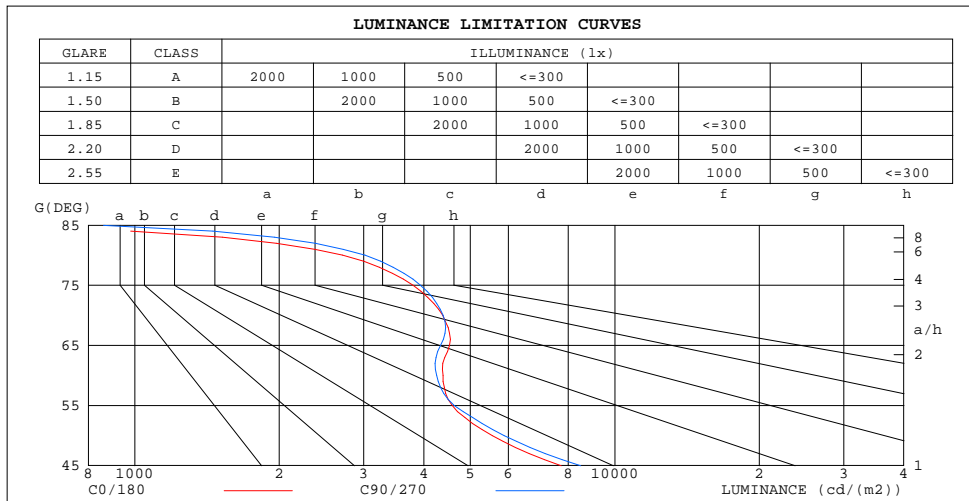
DIM.:

SERIAL No.: 2308070990

MFR.: RISE

SUR.: 0.001589625m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	477	860
80	2711	3015
75	3796	3937
70	4378	4388
65	4526	4334
60	4384	4254
55	4584	4633
50	5554	5886
45	7731	8496

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## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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WEIGHT:

SPEC.: 3000K

DIM.:

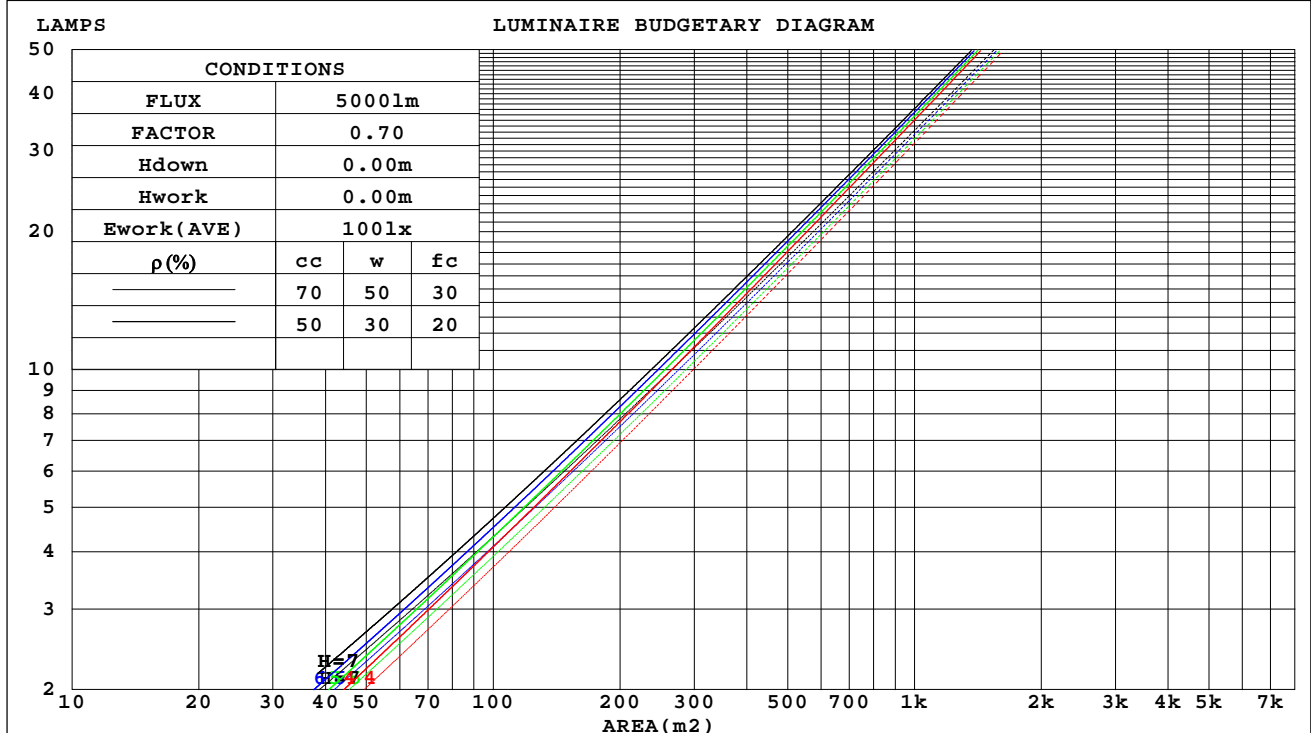
SERIAL No.: 2308070990

MFR.: RISE

SUR.: 0.001589625m2

Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



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30minutes warm-up

### WEC AND CCEC

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NAME: 2218.511-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308070990
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.124	.071	.022	.119	.068	.022	.109	.062	.020	.100	.057	.018	.091	.053	.017	
2.0	.116	.064	.020	.112	.062	.019	.104	.058	.018	.096	.054	.017	.089	.050	.016	
3.0	.109	.058	.017	.106	.057	.017	.099	.054	.016	.092	.051	.016	.086	.048	.015	
4.0	.103	.054	.016	.100	.052	.015	.094	.050	.015	.089	.048	.014	.084	.045	.014	
5.0	.098	.050	.014	.095	.049	.014	.090	.047	.014	.085	.045	.013	.081	.043	.013	
6.0	.093	.047	.013	.091	.046	.013	.086	.044	.013	.082	.043	.013	.078	.041	.012	
7.0	.089	.044	.012	.087	.043	.012	.083	.042	.012	.079	.041	.012	.076	.039	.012	
8.0	.085	.041	.012	.083	.041	.012	.080	.040	.011	.076	.039	.011	.073	.038	.011	
9.0	.081	.039	.011	.080	.039	.011	.077	.038	.011	.074	.037	.011	.071	.036	.010	
10.0	.078	.037	.010	.077	.037	.010	.074	.036	.010	.071	.035	.010	.069	.035	.010	

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	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	.135	.126	.117	.116	.108	.101	.079	.074	.070	.046	.043	.041	.015	.014	.013		
2.0	.122	.106	.092	.104	.091	.080	.072	.063	.056	.041	.037	.033	.013	.012	.011		
3.0	.111	.091	.074	.095	.078	.064	.065	.054	.045	.038	.032	.027	.012	.010	.009		
4.0	.102	.078	.061	.087	.068	.053	.060	.047	.037	.035	.028	.022	.011	.009	.007		
5.0	.094	.069	.050	.081	.060	.044	.056	.042	.031	.032	.024	.018	.010	.008	.006		
6.0	.087	.061	.042	.075	.053	.037	.052	.037	.026	.030	.022	.016	.010	.007	.005		
7.0	.082	.055	.036	.070	.048	.031	.049	.033	.022	.028	.020	.013	.009	.006	.004		
8.0	.077	.050	.031	.066	.043	.027	.046	.030	.019	.027	.018	.011	.009	.006	.004		
9.0	.073	.045	.027	.062	.039	.023	.043	.028	.017	.025	.016	.010	.008	.005	.003		
10.0	.069	.042	.024	.059	.036	.021	.041	.025	.015	.024	.015	.009	.008	.005	.003		

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C Interval: 30.0DEG  
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γ 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:CXB1304-0000-000F0UA430G Ra:90  
LENS: PM-1084B 36R  
DRIVER:9290 028 088 350mA  
30minutes warm-up

## UGR(Unified Glare Rating) Table

Test:U:220.16V I:0.0399A P:8.2892W PF:0.9398 Freq:49.99Hz Lamp Flux:685.66x1 lm										
NAME: 2218.511-ACOT-96					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2308070990		
MFR.: RISE					SUR.: 0.001589625m2			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	13.8	14.6	14.0	14.7	14.9	14.5	15.3	14.7	15.5	15.6
3H	14.2	14.9	14.4	15.1	15.3	14.8	15.5	15.0	15.7	15.9
4H	14.3	15.0	14.6	15.2	15.5	14.9	15.6	15.2	15.8	16.0
6H	14.4	15.1	14.7	15.3	15.5	15.0	15.7	15.3	15.9	16.1
8H	14.4	15.0	14.7	15.3	15.5	15.0	15.6	15.3	15.9	16.1
12H	14.4	15.0	14.7	15.2	15.5	15.0	15.6	15.3	15.8	16.1
4H 2H	13.8	14.5	14.1	14.7	14.9	14.5	15.2	14.7	15.4	15.6
3H	14.3	14.9	14.7	15.2	15.5	14.9	15.5	15.2	15.8	16.0
4H	14.6	15.2	15.0	15.4	15.7	15.1	15.7	15.5	16.0	16.3
6H	14.8	15.2	15.1	15.6	15.9	15.3	15.7	15.6	16.1	16.4
8H	14.8	15.2	15.1	15.5	15.9	15.3	15.7	15.7	16.1	16.4
12H	14.7	15.1	15.1	15.5	15.9	15.2	15.6	15.6	16.0	16.4
8H 4H	14.7	15.1	15.0	15.4	15.8	15.1	15.6	15.5	15.9	16.3
6H	14.8	15.2	15.3	15.6	16.0	15.3	15.7	15.7	16.1	16.5
8H	14.9	15.2	15.3	15.6	16.0	15.3	15.7	15.8	16.1	16.5
12H	14.8	15.1	15.3	15.5	16.0	15.3	15.6	15.8	16.0	16.5
12H 4H	14.6	15.0	15.0	15.4	15.8	15.1	15.5	15.5	15.9	16.3
6H	14.8	15.1	15.3	15.6	16.0	15.3	15.6	15.7	16.0	16.5
8H	14.8	15.1	15.3	15.6	16.0	15.3	15.6	15.8	16.0	16.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.4 / - 1.4					+ 1.9 / - 1.7				
1.5H	+ 2.8 / - 1.4					+ 3.5 / - 1.5				
2.0H	+ 1.1 / - 0.5					+ 1.3 / - 0.6				

CIE Pub.117, 685.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.3)  
Area: 0.00158963 m2

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### UTILIZATION FACTORS TABLE

Test:U:220.16V I:0.0399A P:8.2892W PF:0.9398 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2218.511-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308070990
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

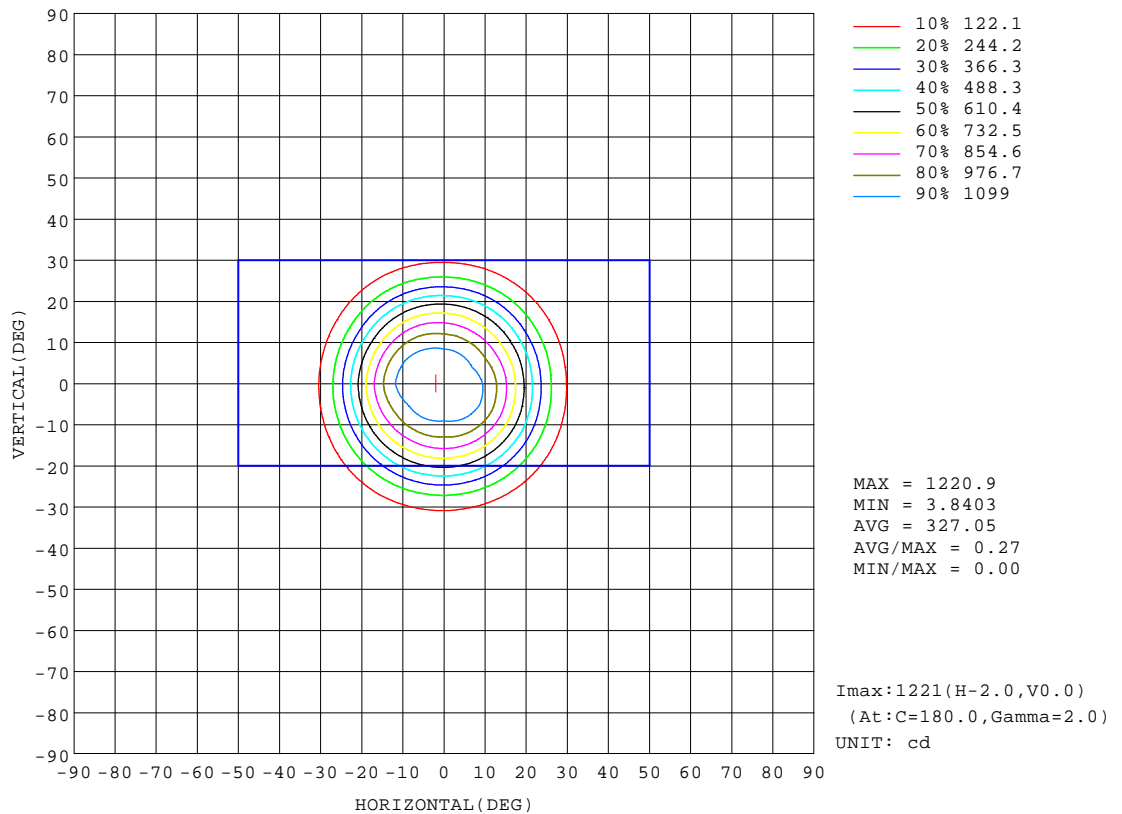
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	72	67	64	71	67	64	71	67	64	61
0.80	77	73	70	77	73	70	76	72	70	67
1.00	80	76	74	80	76	73	79	76	73	70
1.25	83	80	77	83	79	77	81	78	76	73
1.50	85	82	79	84	81	79	83	80	78	75
2.00	87	84	82	86	83	81	84	82	80	76
2.50	89	86	83	87	85	83	85	83	81	77
3.00	90	87	85	88	86	84	86	84	82	77
4.00	91	89	87	90	88	86	87	85	84	79
5.00	92	91	89	90	89	88	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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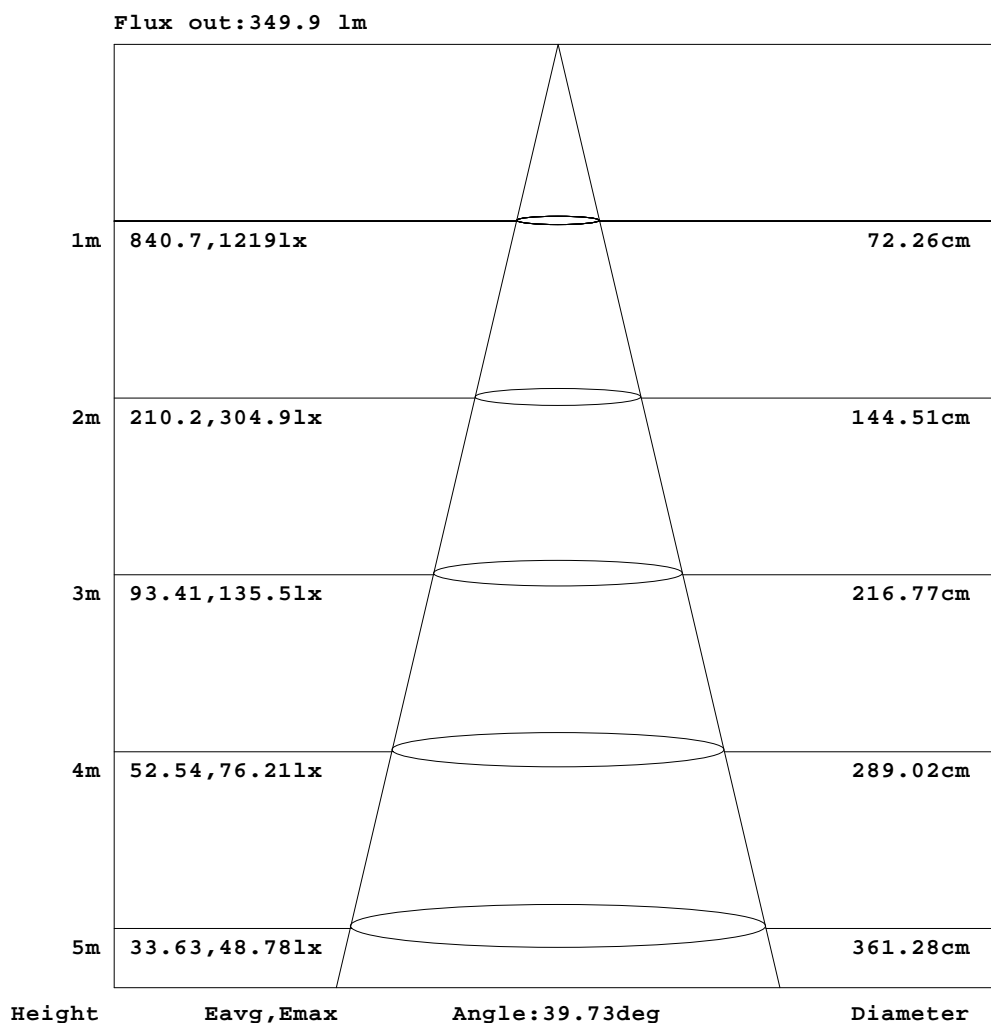


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## AAI Figure

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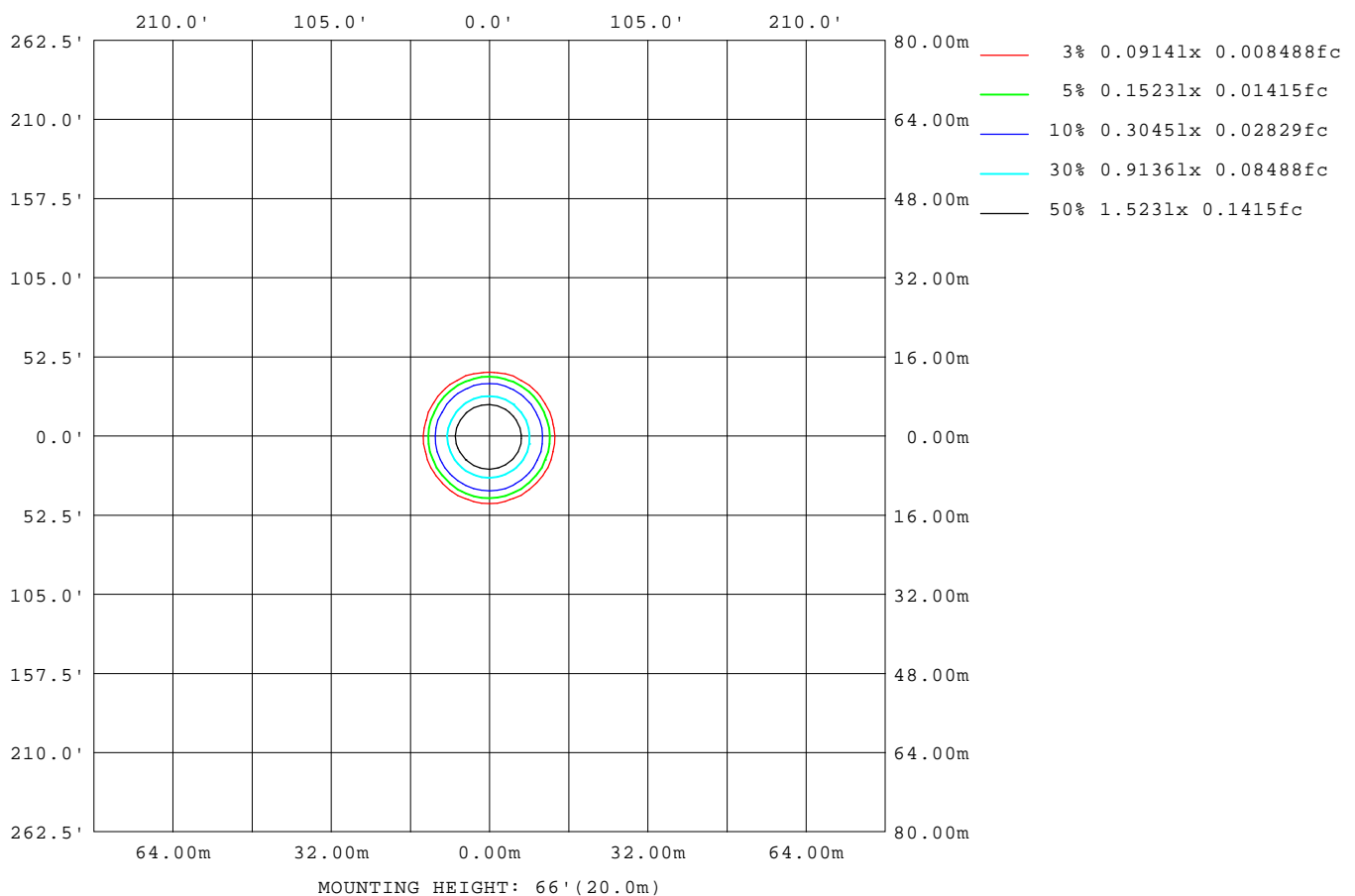
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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C Interval: 30.0DEG  
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LENS: PM-1084B 36R  
DRIVER:9290 028 088 350mA  
30minutes warm-up

## ISOLUX DIAGRAM

Test:U:220.16V I:0.0399A P:8.2892W PF:0.9398 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2218.511-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308070990
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-8-7

γ Range: 0 - 180DEG  
γ 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:CXB1304-0000-000F0UA430G Ra:90  
LENS: PM-1084B 36R  
DRIVER:9290 028 088 350mA  
30minutes warm-up

## LED Avg.L Report

Test:U:220.16V I:0.0399A P:8.2892W PF:0.9398 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2218.511-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308070990
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

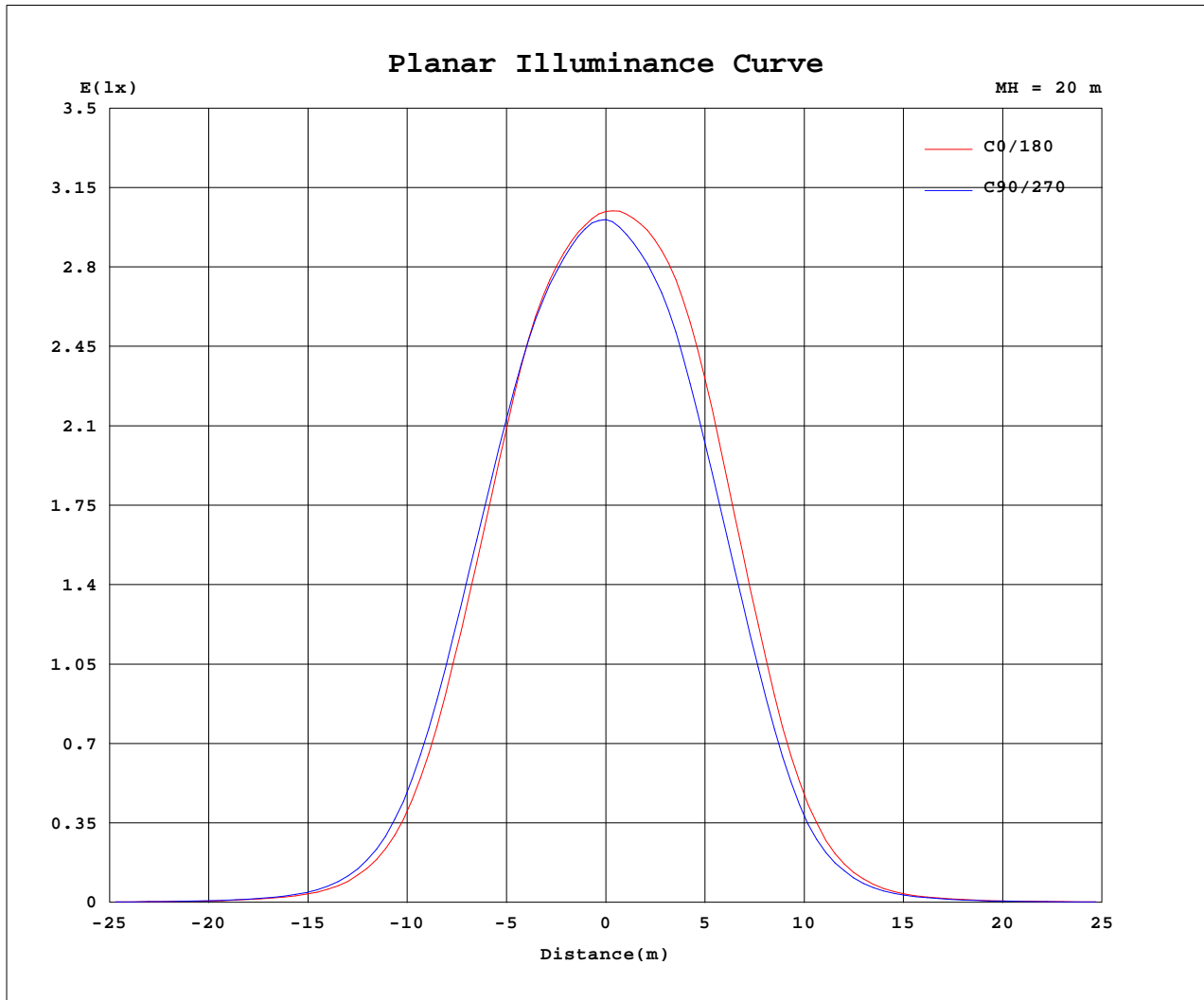
AvgL	cd/m2
L_0~180(65)av	4429
L_0~180(75)av	3921
L_0~180(85)av	846
L_90~270(65)av	4284
L_90~270(75)av	3844
L_90~270(85)av	754
L_45(65)av	4364
L_45(75)av	3880
L_45(85)av	730

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-8-7

γ Range: 0 - 180DEG  
γ 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:CXB1304-0000-000F0UA430G Ra:90  
LENS: PM-1084B 36R  
DRIVER:9290 028 088 350mA  
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: 2023-8-7

γ Range: 0 - 180DEG  
 γ 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: CXB1304-0000-000F0UA430G Ra:90  
 LENS: PM-1084B 36R  
 DRIVER: 9290 028 088 350mA  
 30minutes warm-up

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.16V I:0.0399A P:8.2892W PF:0.9398 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2218.511-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308070990
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207						
5	1167	1180	1178	1173	1174	1183	1199	1193	1176	1161	1159	1159						
10	1072	1096	1094	1080	1098	1110	1139	1121	1086	1056	1051	1048						
15	857	893	899	894	905	932	956	920	882	842	826	833						
20	573	610	624	635	645	660	661	619	596	570	561	560						
25	292	322	341	351	355	355	344	315	304	286	284	282						
30	116	130	139	146	148	141	132	120	116	108	110	112						
35	42.3	47.6	50.4	52.9	53.0	49.0	45.2	41.9	39.3	37.6	38.6	40.2						
40	17.9	20.0	20.8	21.3	20.4	19.2	17.9	16.7	16.1	15.6	15.9	16.7						
45	8.61	9.19	9.75	9.58	9.44	8.94	8.37	7.92	7.83	7.73	7.89	8.39						
50	5.62	5.87	5.99	6.03	5.84	5.74	5.52	5.33	5.23	5.18	5.35	5.58						
55	4.14	4.18	4.21	4.24	4.23	4.19	4.10	4.00	3.91	3.89	4.01	4.16						
60	3.45	3.41	3.37	3.39	3.41	3.44	3.38	3.29	3.25	3.24	3.35	3.46						
65	3.01	2.98	2.92	2.92	2.95	2.99	2.94	2.85	2.82	2.84	2.92	3.02						
70	2.36	2.38	2.37	2.39	2.41	2.44	2.39	2.29	2.25	2.25	2.30	2.36						
75	1.55	1.57	1.58	1.62	1.66	1.69	1.68	1.60	1.56	1.54	1.54	1.56						
80	0.74	0.77	0.79	0.83	0.86	0.89	0.90	0.84	0.81	0.77	0.76	0.75						
85	0.07	0.08	0.09	0.12	0.13	0.15	0.17	0.13	0.11	0.09	0.07	0.06						
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:2023-8-7

γ Range: 0 - 180DEG  
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