

### Luminaire Photograph

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Light Output Ratio:	75.5%	
Luminaire Power:	14.51 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.55	fine grid method.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: Zoe  
Test Date: 2023-2-21

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: CLU028-1204C4-303H5M3-F1 Ra:90  
LENS: PM-1082A 24R  
DRIVER: 9290 028 088 350mA  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

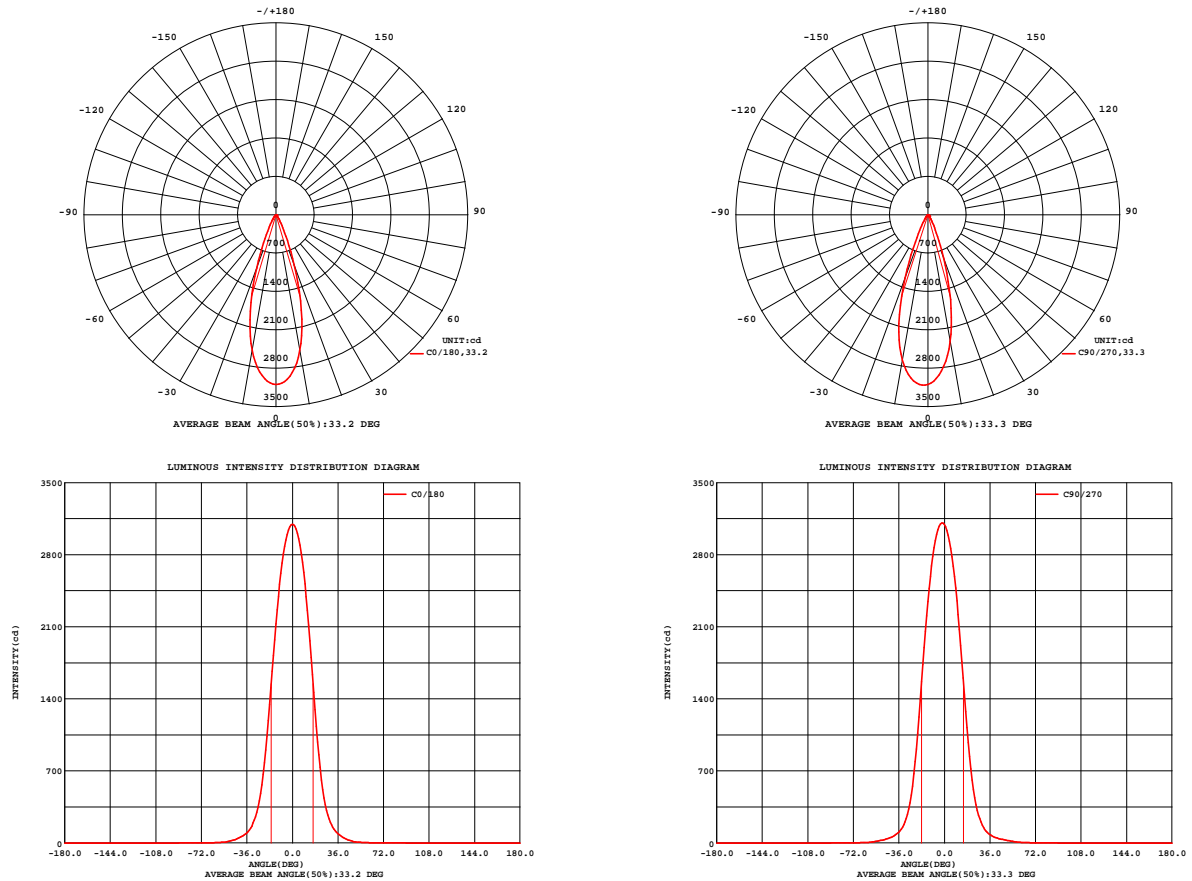


Fig. C0/C180

Fig. C90/C270

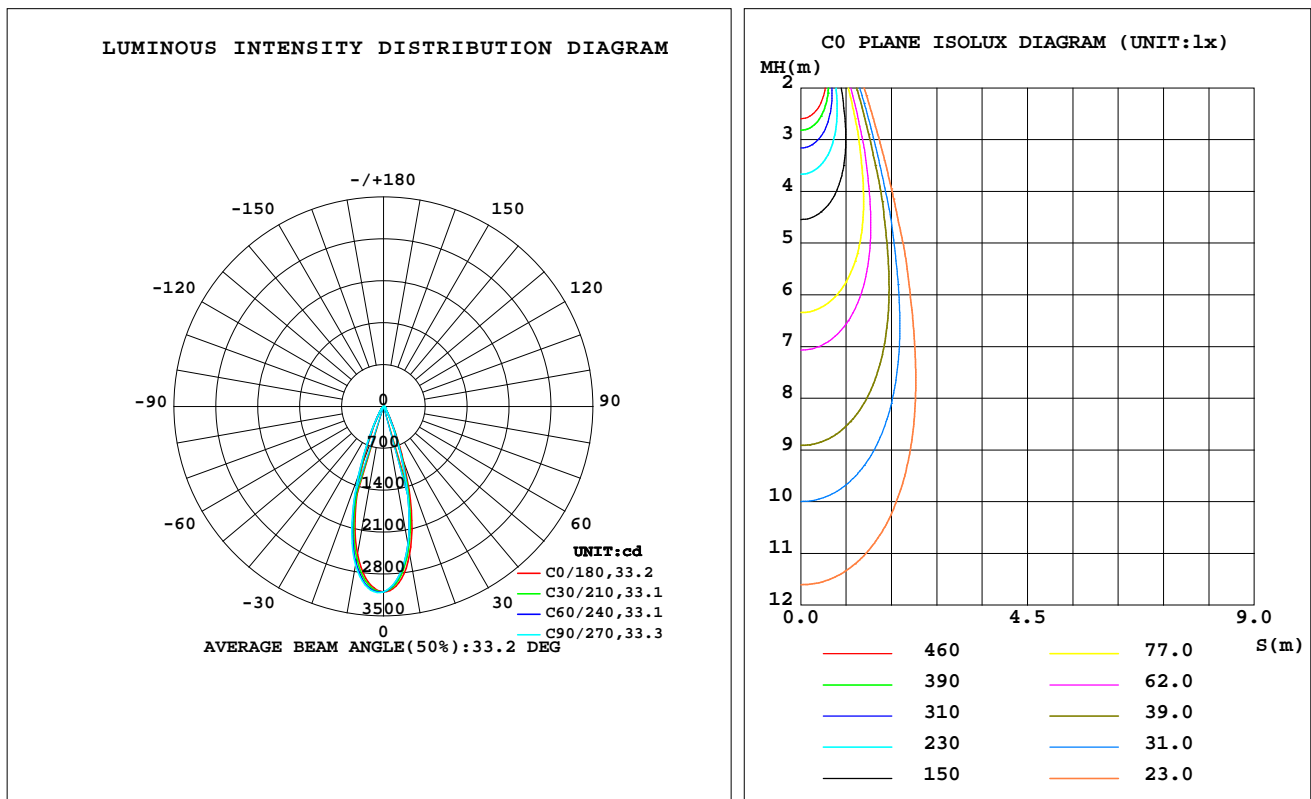
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: Zoe  
Test Date: 2023-2-21

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: CLU028-1204C4-303H5M3-F1 Ra: 90  
LENS: PM-1082A 24R  
DRIVER: 9290 028 088 350mA  
30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.27V I:0.0669A P:14.510W PF:0.9823 Freq:49.99Hz Lamp Flux:1463.29x1 lm		
NAME: 2218.143-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2302210181
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 76.11 lm/W			
MODEL	CITIZEN	I <sub>max</sub> (cd)	3108	S/MH(C0/180)	0.53
NOMINAL POWER(W)	15	LOR(%)	75.5	S/MH(C90/270)	0.56
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1104.5	UP,DN(C0-180)	0.0,34.7
NOMINAL FLUX(lm)	1463.29	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,40.8
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	down(%)	75.5	CIBSE SHR MAX	0.55



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Zoe  
Test Date:2023-2-21

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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:CLU028-1204C4-303H5M3-F1 Ra:90  
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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	2517	2384	2351	2396	2512	2619	2692	2678	0- 10	267.9	267.9	24.3,18.3
20	981.9	871.5	840.8	902.3	1040	1159	1222	1196	10- 20	488.1	756.0	68.5,51.7
30	202.0	181.9	172.9	192.4	223.6	234.4	238.3	241.1	20- 30	229.0	985.0	89.2,67.3
40	54.89	55.72	55.71	59.76	64.02	66.46	67.01	68.23	30- 40	72.14	1057	95.7,72.2
50	10.23	23.65	24.02	25.17	15.79	25.70	25.10	25.89	40- 50	30.27	1087	98.5,74.3
60	3.147	6.323	6.680	6.778	3.838	6.335	6.013	6.108	50- 60	11.76	1099	99.5,75.1
70	1.345	1.766	2.101	1.977	1.534	1.721	1.637	1.547	60- 70	3.564	1103	99.8,75.4
80	0.5915	0.8844	1.088	0.9683	0.6906	0.8049	0.8203	0.7555	70- 80	1.292	1104	100,75.4
90	0	0	0	0	0	0	0	0	80- 90	0.4416	1104	100,75.5
100	0	0	0	0	0	0	0	0	90-100	0	1104	100,75.5
110	0	0	0	0	0	0	0	0	100-110	0	1104	100,75.5
120	0	0	0	0	0	0	0	0	110-120	0	1104	100,75.5
130	0	0	0	0	0	0	0	0	120-130	0	1104	100,75.5
140	0	0	0	0	0	0	0	0	130-140	0	1104	100,75.5
150	0	0	0	0	0	0	0	0	140-150	0	1104	100,75.5
160	0	0	0	0	0	0	0	0	150-160	0	1104	100,75.5
170	0	0	0	0	0	0	0	0	160-170	0	1104	100,75.5
180	0	0	0	0	0	0	0	0	170-180	0	1104	100,75.5
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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 Temperature:25.3℃  
 Operators:Zoe  
 Test Date:2023-2-21

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:CLU028-1204C4-303H5M3-F1 Ra:90  
 LENS:PM-1082A 24R  
 DRIVER: 9290 028 088 350mA  
 30minutes warm-up

### LUMINANCE LIMITATION CURVES

Test:U:220.27V I:0.0669A P:14.510W PF:0.9823 Freq:49.99Hz  
Lamp Flux:1463.29x1 lm

NAME: 2218.143-ACOT-70

TYPE:

WEIGHT:

SPEC.: 3000K

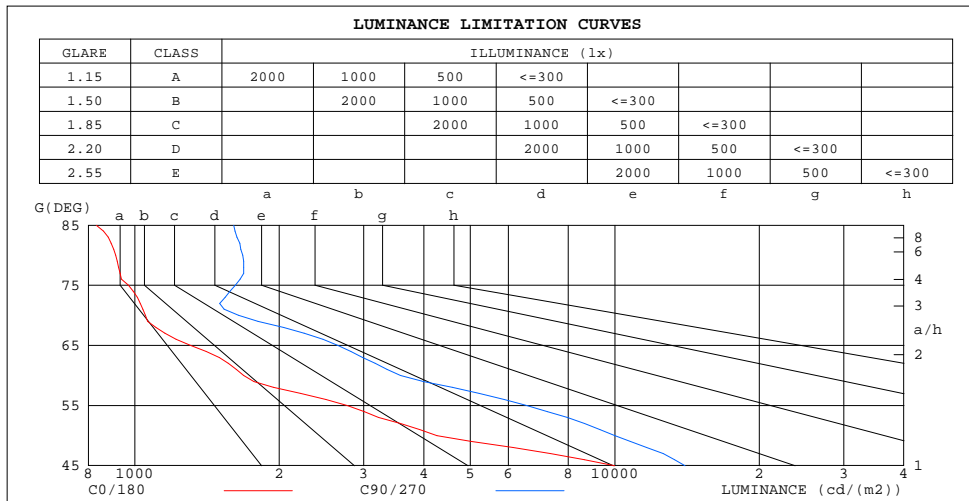
DIM.:

SERIAL No.: 2302210181

MFR.: RISE

SUR.: 0.003737385m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	831	1608
80	912	1678
75	969	1619
70	1053	1645
65	1307	2648
60	1685	3578
55	2773	6557
50	4262	10006
45	9997	14002

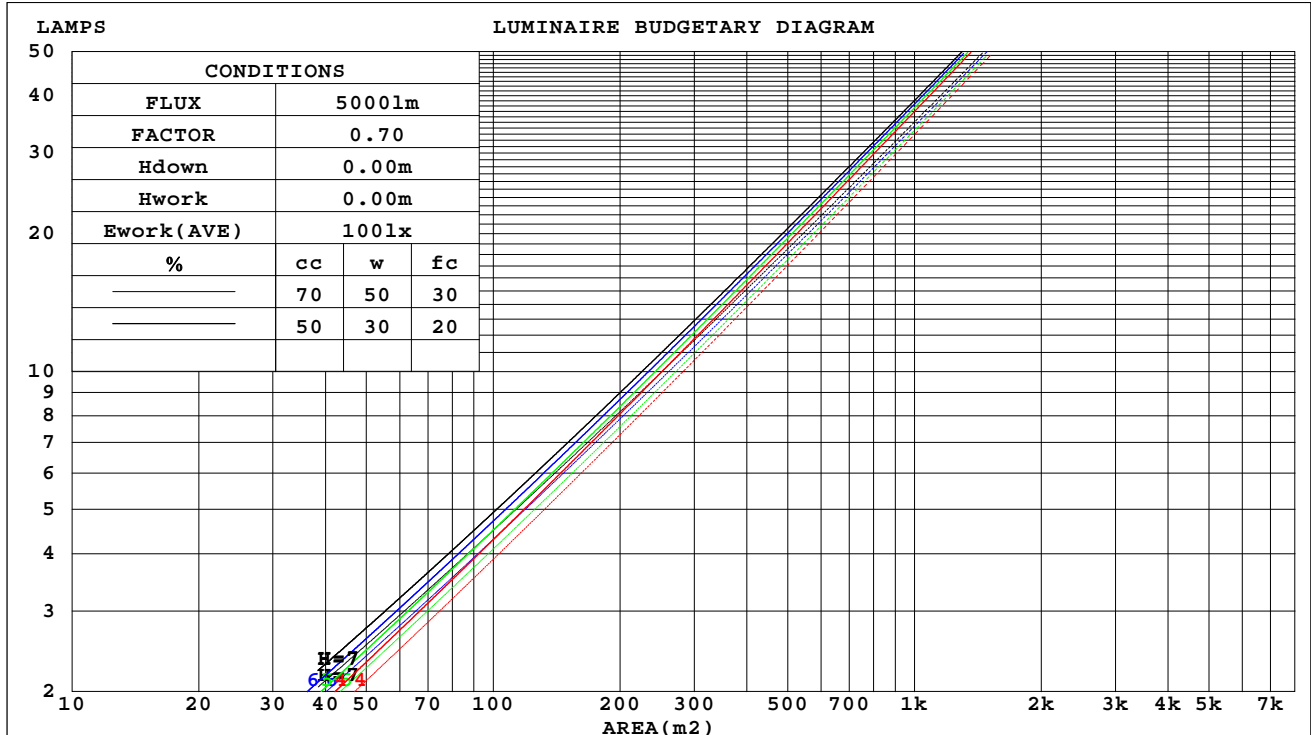
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## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2302210181
MFR.: RISE	SUR.: 0.003737385m2	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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Test Distance:3.160m [K=1.0000]  
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### WEC AND CCEC

Test:U:220.27V I:0.0669A P:14.510W PF:0.9823 Freq:49.99Hz Lamp Flux:1463.29x1 lm		
NAME: 2218.143-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2302210181
MFR.: RISE	SUR.: 0.003737385m2	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	.114	.065	.021	.109	.062	.020	.100	.057	.018	.091	.053	.017	.083	.048	.016	
2.0	.107	.059	.018	.103	.057	.018	.095	.053	.016	.088	.050	.015	.082	.046	.015	
3.0	.101	.054	.016	.097	.052	.016	.091	.049	.015	.085	.046	.014	.079	.044	.014	
4.0	.095	.049	.015	.092	.048	.014	.087	.046	.014	.081	.044	.013	.077	.042	.013	
5.0	.090	.046	.013	.088	.045	.013	.083	.043	.013	.078	.041	.012	.074	.040	.012	
6.0	.086	.043	.012	.083	.042	.012	.079	.041	.012	.075	.039	.012	.072	.038	.011	
7.0	.082	.040	.011	.080	.040	.011	.076	.038	.011	.073	.037	.011	.069	.036	.011	
8.0	.078	.038	.011	.076	.037	.011	.073	.036	.010	.070	.035	.010	.067	.034	.010	
9.0	.075	.036	.010	.073	.036	.010	.070	.035	.010	.067	.034	.010	.065	.033	.010	
10.0	.071	.034	.010	.070	.034	.009	.068	.033	.009	.065	.032	.009	.063	.032	.009	

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	.144	.144	.144	.123	.123	.123	.084	.084	.084	.048	.048	.048	.015	.015	.015	
1.0	.128	.119	.111	.109	.102	.095	.075	.070	.066	.043	.041	.038	.014	.013	.012	
2.0	.115	.100	.088	.098	.086	.076	.067	.060	.053	.039	.035	.031	.012	.011	.010	
3.0	.104	.086	.071	.089	.074	.061	.061	.051	.043	.035	.030	.025	.011	.010	.008	
4.0	.096	.074	.058	.082	.064	.050	.056	.045	.035	.033	.026	.021	.010	.009	.007	
5.0	.088	.065	.048	.076	.056	.042	.052	.039	.030	.030	.023	.018	.010	.008	.006	
6.0	.082	.058	.040	.070	.050	.035	.048	.035	.025	.028	.021	.015	.009	.007	.005	
7.0	.076	.052	.034	.066	.045	.030	.045	.031	.021	.026	.019	.013	.009	.006	.004	
8.0	.072	.047	.030	.062	.041	.026	.043	.028	.018	.025	.017	.011	.008	.006	.004	
9.0	.068	.043	.026	.058	.037	.022	.040	.026	.016	.023	.015	.010	.008	.005	.003	
10.0	.064	.039	.023	.055	.034	.020	.038	.024	.014	.022	.014	.008	.007	.005	.003	

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30minutes warm-up

## UGR(Unified Glare Rating) Table

Test:U:220.27V I:0.0669A P:14.510W PF:0.9823 Freq:49.99Hz Lamp Flux:1463.29x1 lm										
NAME: 2218.143-ACOT-70					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2302210181		
MFR.: RISE					SUR.: 0.003737385m2			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	11.4	12.2	11.6	12.3	12.5	11.7	12.5	11.9	12.6	12.8
3H	11.3	12.0	11.6	12.2	12.4	11.7	12.4	11.9	12.6	12.8
4H	11.3	11.9	11.5	12.1	12.4	11.6	12.3	11.9	12.5	12.7
6H	11.2	11.8	11.5	12.1	12.3	11.6	12.2	11.9	12.5	12.7
8H	11.2	11.8	11.5	12.0	12.3	11.6	12.2	11.9	12.4	12.7
12H	11.1	11.7	11.4	12.0	12.2	11.6	12.1	11.9	12.4	12.7
4H 2H	11.3	12.0	11.6	12.2	12.4	11.6	12.3	11.9	12.5	12.7
3H	11.2	11.8	11.5	12.1	12.3	11.6	12.2	11.9	12.4	12.7
4H	11.2	11.7	11.5	12.0	12.3	11.6	12.1	11.9	12.4	12.7
6H	11.1	11.6	11.5	11.9	12.2	11.5	12.0	11.9	12.3	12.7
8H	11.1	11.5	11.5	11.9	12.2	11.5	12.0	11.9	12.3	12.7
12H	11.0	11.4	11.4	11.8	12.2	11.5	11.9	11.9	12.3	12.7
8H 4H	11.1	11.5	11.4	11.8	12.2	11.4	11.9	11.8	12.2	12.6
6H	11.0	11.4	11.4	11.8	12.2	11.5	11.8	11.9	12.2	12.6
8H	11.0	11.3	11.4	11.7	12.1	11.5	11.8	11.9	12.2	12.6
12H	10.9	11.2	11.4	11.7	12.1	11.5	11.7	11.9	12.2	12.6
12H 4H	11.0	11.4	11.4	11.8	12.2	11.4	11.8	11.8	12.2	12.5
6H	11.0	11.3	11.4	11.7	12.1	11.4	11.7	11.9	12.1	12.6
8H	10.9	11.2	11.4	11.6	12.1	11.4	11.7	11.9	12.1	12.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.6 / - 5.9					+ 2.0 / - 3.4				
1.5H	+ 3.7 / - 5.6					+ 2.6 / - 2.6				
2.0H	+ 3.8 / - 5.6					+ 3.6 / - 3.8				

CIE Pub.117, 1463 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.3)  
Area: 0.00373738 m2

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30minutes warm-up

### UTILIZATION FACTORS TABLE

Test:U:220.27V I:0.0669A P:14.510W PF:0.9823 Freq:49.99Hz Lamp Flux:1463.29x1 lm		
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MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

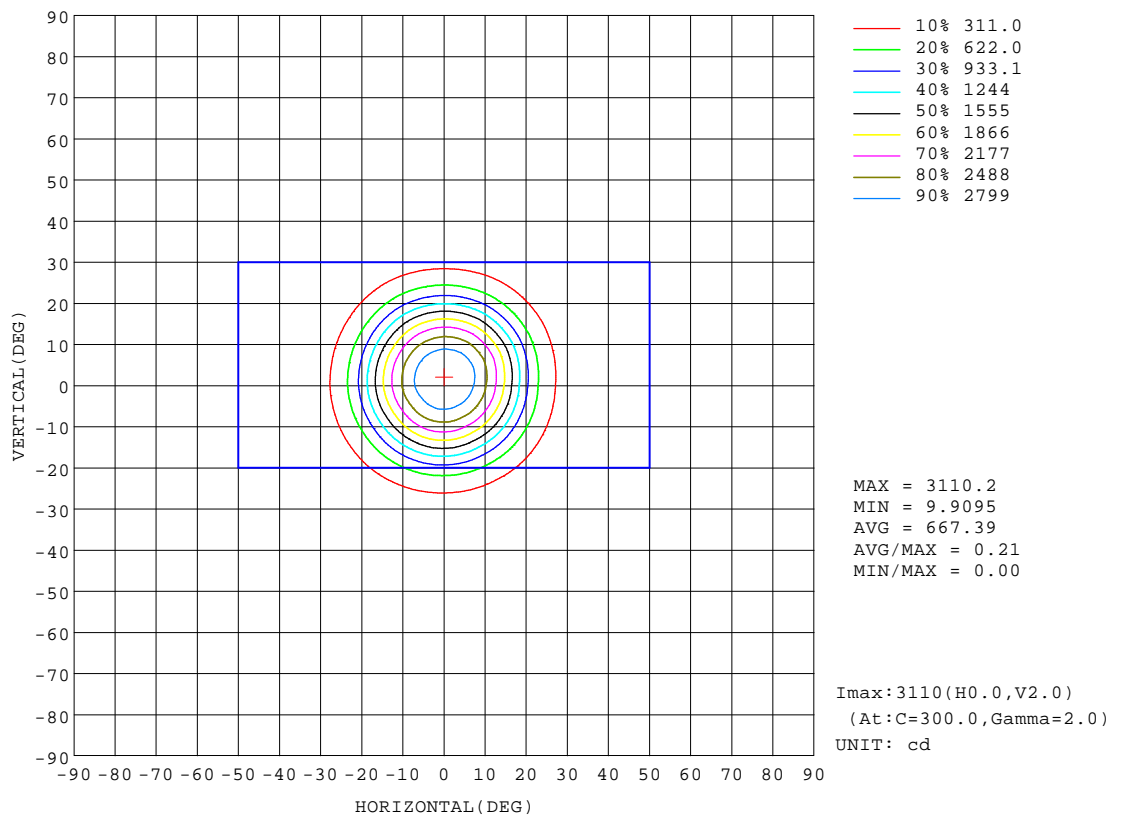
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	67	62	60	67	62	60	66	62	60	57
0.80	73	68	66	72	68	66	71	68	65	63
1.00	76	72	69	75	71	69	74	71	68	66
1.25	79	75	72	78	74	72	76	74	71	68
1.50	81	77	75	80	77	74	78	75	74	70
2.00	82	79	77	81	79	76	79	77	75	72
2.50	84	81	79	82	80	78	80	78	77	72
3.00	85	82	80	83	81	79	81	79	78	73
4.00	86	84	83	85	83	82	82	81	79	74
5.00	87	85	84	85	84	83	82	81	81	75
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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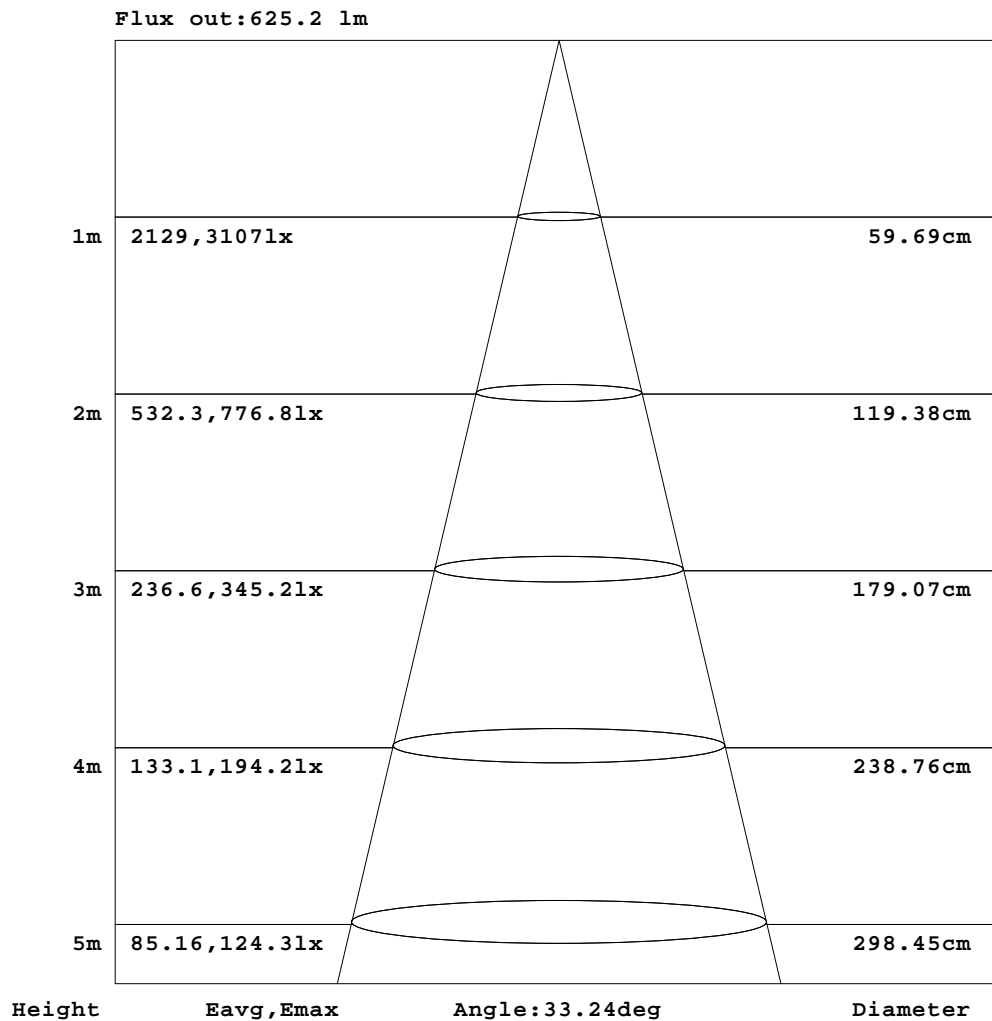


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## AAI Figure

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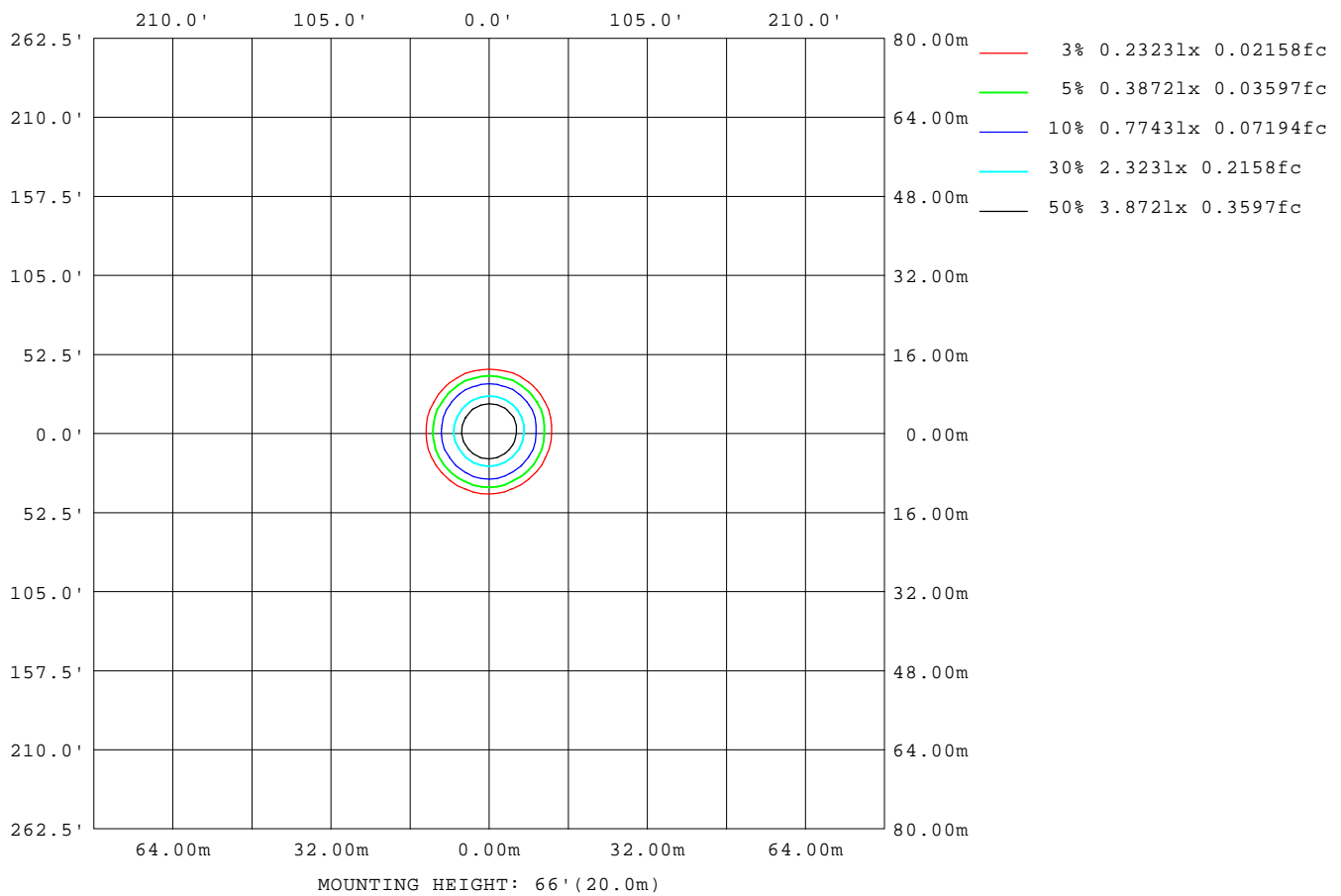
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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30minutes warm-up

## ISOLUX DIAGRAM

Test:U:220.27V I:0.0669A P:14.510W PF:0.9823 Freq:49.99Hz Lamp Flux:1463.29x1 lm		
NAME: 2218.143-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2302210181
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: Zoe  
Test Date: 2023-2-21

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: CLU028-1204C4-303H5M3-F1 Ra:90  
LENS: PM-1082A 24R  
DRIVER: 9290 028 088 350mA  
30minutes warm-up

## LED Avg.L Report

Test:U:220.27V I:0.0669A P:14.510W PF:0.9823 Freq:49.99Hz Lamp Flux:1463.29x1 lm		
NAME: 2218.143-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2302210181
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

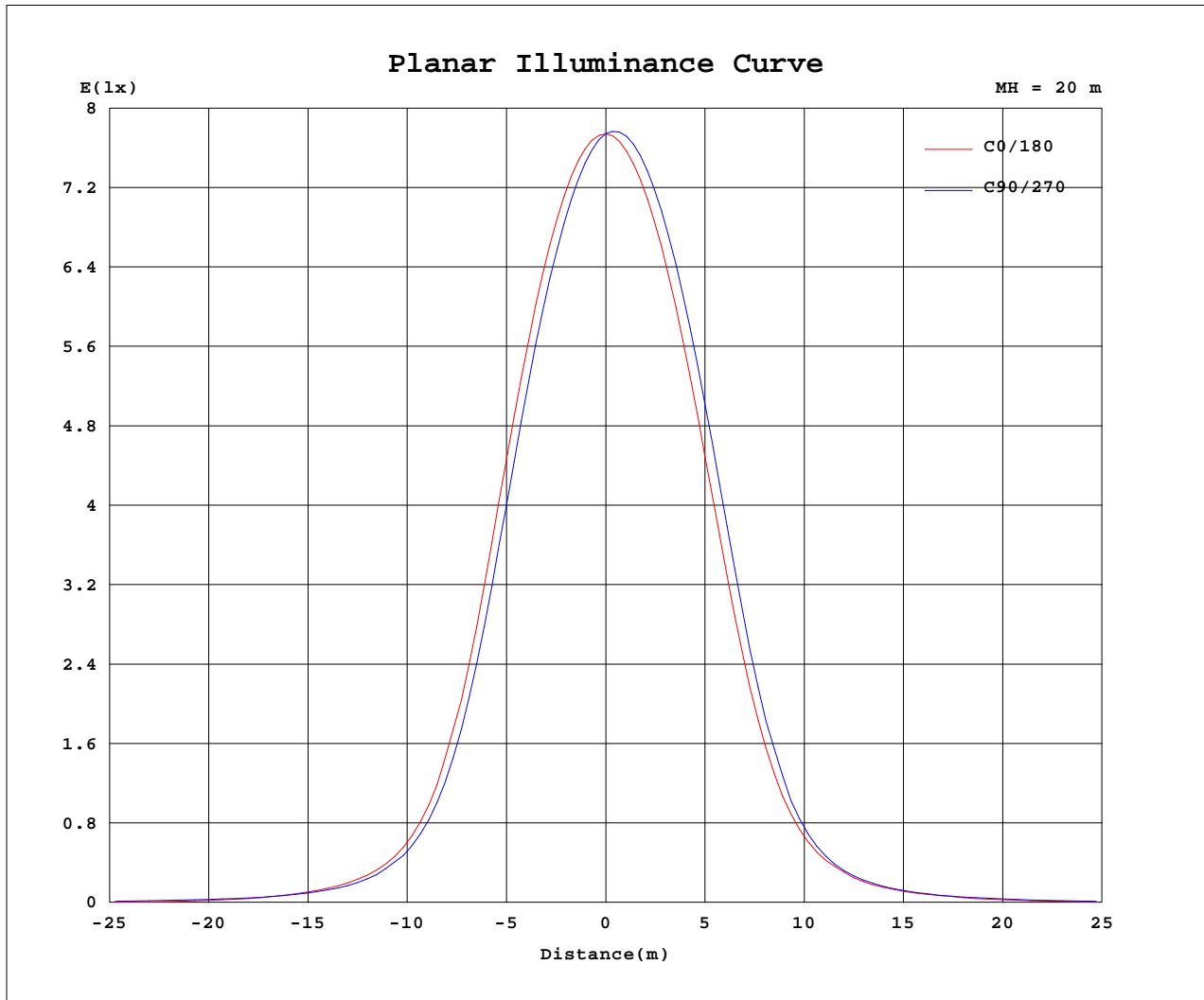
AvgL	cd/m2
L_0~180(65)av	1392
L_0~180(75)av	1066
L_0~180(85)av	973
L_90~270(65)av	2469
L_90~270(75)av	1437
L_90~270(85)av	1385
L_45(65)av	2504
L_45(75)av	1284
L_45(85)av	1256

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:Zoe  
Test Date:2023-2-21

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:CLU028-1204C4-303H5M3-F1 Ra:90  
LENS:PM-1082A 24R  
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: 2023-2-21

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: CLU028-1204C4-303H5M3-F1 Ra:90  
 LENS: PM-1082A 24R  
 DRIVER: 9290 028 088 350mA  
 30minutes warm-up

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.27V I:0.0669A P:14.510W PF:0.9823 Freq:49.99Hz Lamp Flux:1463.29x1 lm		
NAME: 2218.143-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2302210181
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	3095	3095	3095	3095	3095	3095	3095	3095	3095	3095	3095	3095						
5	2955	2908	2867	2860	2870	2892	2944	2982	3024	3041	3045	3019						
10	2517	2419	2349	2351	2375	2418	2512	2581	2656	2692	2702	2653						
15	1801	1687	1592	1602	1629	1694	1821	1910	2008	2056	2075	1997						
20	982	898	845	841	880	925	1040	1112	1206	1222	1235	1157						
25	437	401	369	372	389	421	480	508	556	552	563	525						
30	202	191	173	173	182	203	224	227	242	238	247	235						
35	105	97.5	92.9	93.2	98.1	104	111	115	121	119	124	120						
40	54.9	56.5	55.0	55.7	58.5	61.0	64.0	65.2	67.7	67.0	69.4	67.0						
45	26.4	37.5	36.7	37.0	38.5	39.8	33.7	41.4	42.3	42.0	43.8	42.9						
50	10.2	23.7	23.6	24.0	24.8	25.5	15.8	25.7	25.7	25.1	26.0	25.8						
55	5.94	13.2	13.6	14.0	14.5	14.6	7.07	14.5	14.2	13.5	13.8	13.9						
60	3.15	6.15	6.49	6.68	6.85	6.71	3.84	6.46	6.21	6.01	6.11	6.10						
65	2.06	3.70	4.04	4.18	4.30	4.15	2.33	3.82	3.75	3.62	3.61	3.48						
70	1.34	1.55	1.99	2.10	2.14	1.81	1.53	1.68	1.76	1.64	1.64	1.45						
75	0.94	1.09	1.50	1.56	1.56	1.20	1.13	1.07	1.25	1.21	1.22	1.02						
80	0.59	0.75	1.02	1.09	1.10	0.84	0.69	0.75	0.86	0.82	0.82	0.69						
85	0.27	0.35	0.49	0.52	0.54	0.42	0.36	0.37	0.41	0.38	0.37	0.31						
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:2023-2-21

Range: 0 - 180DEG  
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