

## Luminaire Photograph



Light Output Ratio:	61.8%	
Luminaire Power:	19.84 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: 2025-5-10

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: BXRE-30G10TH-A-83 Ra:90  
LENS: 15R  
DRIVER: 9290 039 225 500mA  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

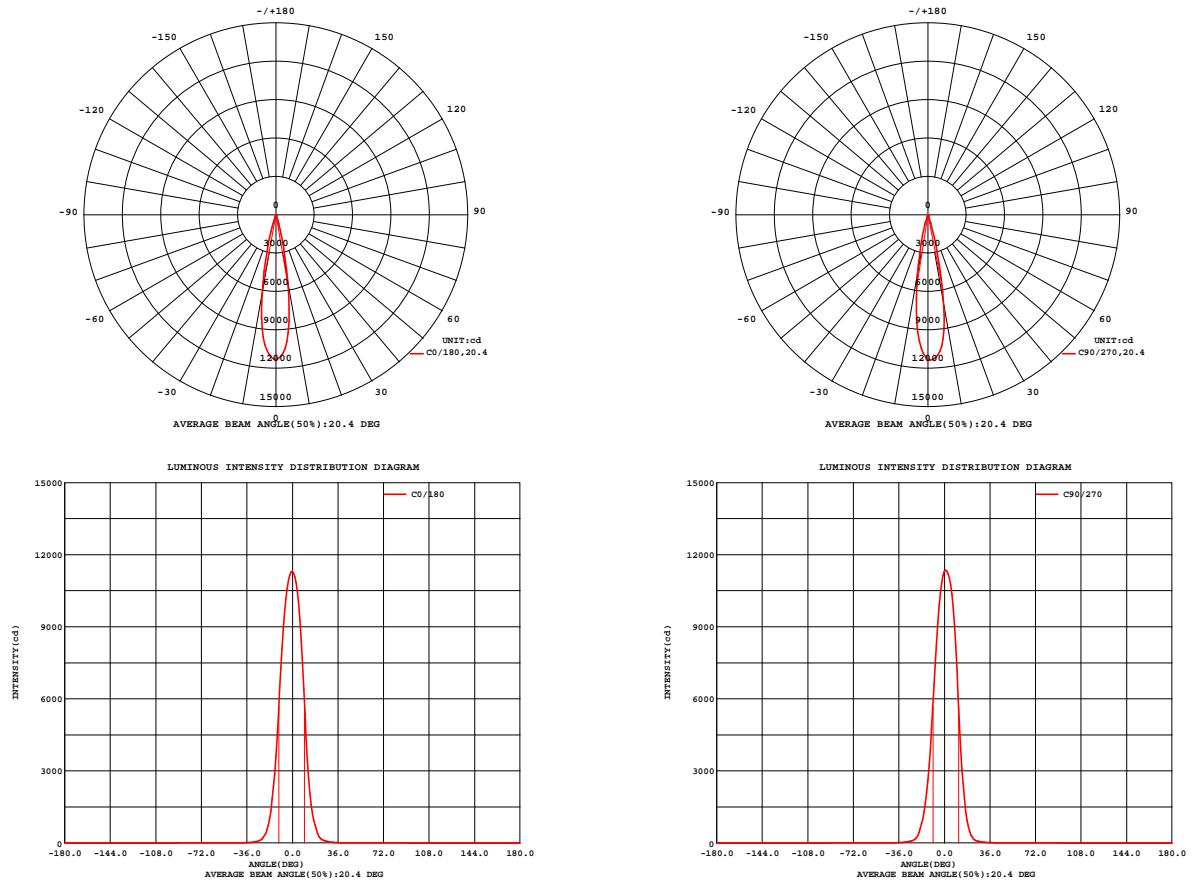


Fig. C0/C180

Fig. C90/C270

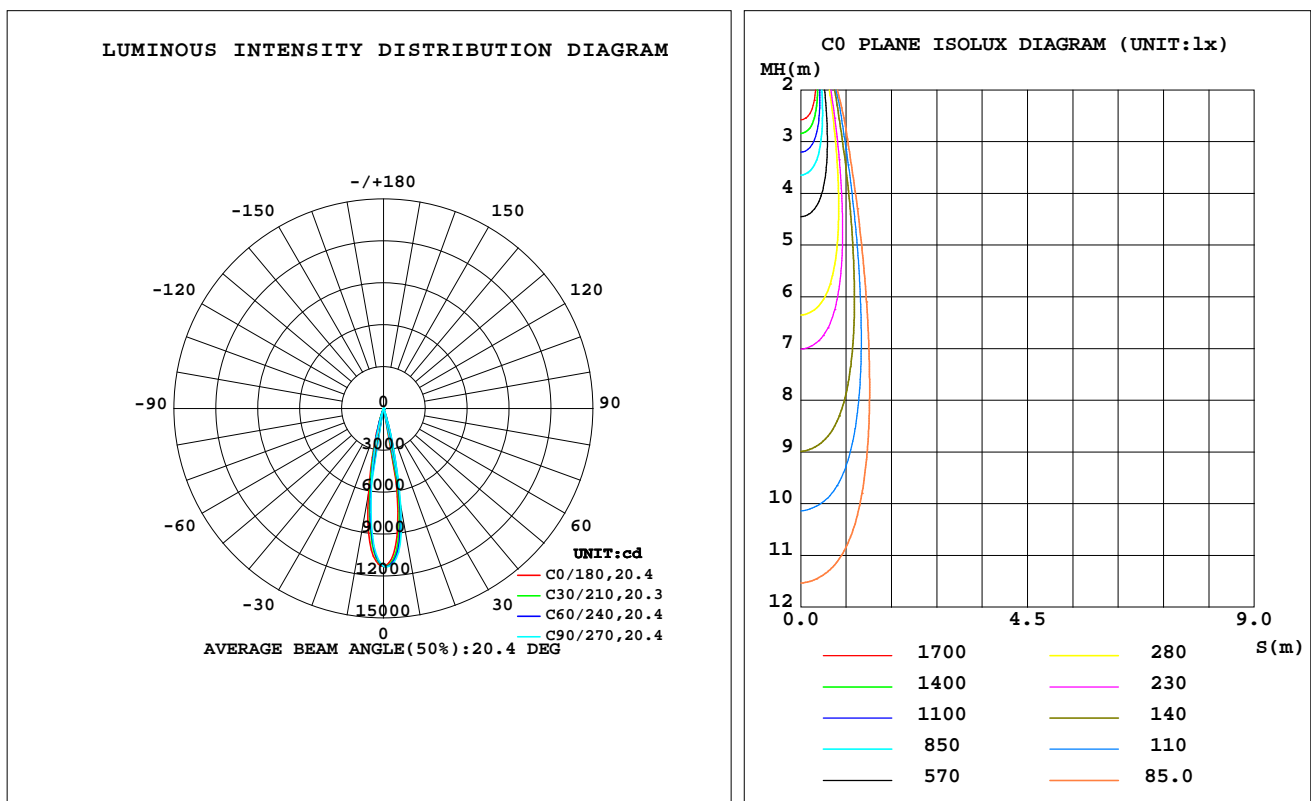
C Range: 0 - 360DEG  
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Humidity: 65.0%  
Test Distance: 3.160m [K=1.0000]  
Remarks: LAMP: BXRE-30G10TH-A-83 Ra: 90  
LENS: 15R  
DRIVER: 9290 039 225 500mA  
30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.07V I:0.0928A P:19.845W PF:0.9687 Freq:49.99Hz Lamp Flux:2442.23x1 lm		
NAME: 2518.102	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2505100263
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 76.01 lm/W			
MODEL	Brideglux	I <sub>max</sub> (cd)	11358	S/MH(C0/180)	0.34
NOMINAL POWER(W)	20	LOR(%)	61.8	S/MH(C90/270)	0.31
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1508.4	UP,DN(C0-180)	0.0,33.1
NOMINAL FLUX(lm)	2442.23	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,28.7
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	down(%)	61.8	CIBSE SHR MAX	0.30



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
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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:BXRE-30G10TH-A-83 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	534.3	645.7	719.1	698.5	629.8	533.1	477.0	487.7	0- 10	821.8	821.8	54.5,33.6
20	39.04	43.73	50.03	56.52	55.49	51.84	42.90	39.17	10- 20	604.1	1426	94.5,58.4
30	3.877	3.965	4.320	4.488	4.490	4.420	4.135	3.870	20- 30	66.86	1493	99,61.1
40	0.8471	0.8768	1.030	0.8551	0.9144	0.9202	0.9540	0.8146	30- 40	12.54	1505	99.8,61.6
50	0.0244	0.0350	0.0470	0.0798	0.0345	0.0201	0.0179	0.0152	40- 50	2.968	1508	100,61.8
60	0.0076	0.0049	0.0060	0.0058	0.0041	0.0061	0.0086	0.0076	50- 60	0.0812	1508	100,61.8
70	0.0014	0.0001	0.0003	0.0003	0.0011	0.0001	0.0010	0.0003	60- 70	0.0298	1508	100,61.8
80	0.0032	0.0003	0.0020	0.0004	0.0025	0.0010	0.0031	0.0010	70- 80	0.0093	1508	100,61.8
90	0	0	0	0	0	0	0	0	80- 90	0.0151	1508	100,61.8
100	0	0	0	0	0	0	0	0	90-100	0	1508	100,61.8
110	0	0	0	0	0	0	0	0	100-110	0	1508	100,61.8
120	0	0	0	0	0	0	0	0	110-120	0	1508	100,61.8
130	0	0	0	0	0	0	0	0	120-130	0	1508	100,61.8
140	0	0	0	0	0	0	0	0	130-140	0	1508	100,61.8
150	0	0	0	0	0	0	0	0	140-150	0	1508	100,61.8
160	0	0	0	0	0	0	0	0	150-160	0	1508	100,61.8
170	0	0	0	0	0	0	0	0	160-170	0	1508	100,61.8
180	0	0	0	0	0	0	0	0	170-180	0	1508	100,61.8
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

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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:BXRE-30G10TH-A-83 Ra:90  
LENS:15R  
DRIVER:9290 039 225 500mA  
30minutes warm-up

### LUMINANCE LIMITATION CURVES

Test:U:220.07V I:0.0928A P:19.845W PF:0.9687 Freq:49.99Hz  
Lamp Flux:2442.23x1 lm

NAME: 2518.102

TYPE:

WEIGHT:

SPEC.: 3000K

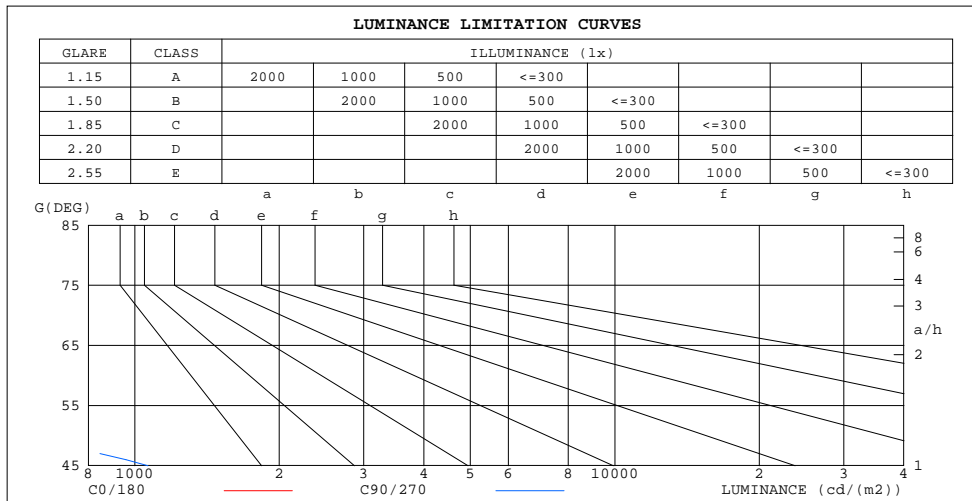
DIM.:

SERIAL No.: 2505100263

MFR.: RISE

SUR.: 0.006217985m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	69	49
80	29	19
75	14	6
70	6	1
65	15	16
60	24	19
55	27	20
50	61	117
45	856	1066

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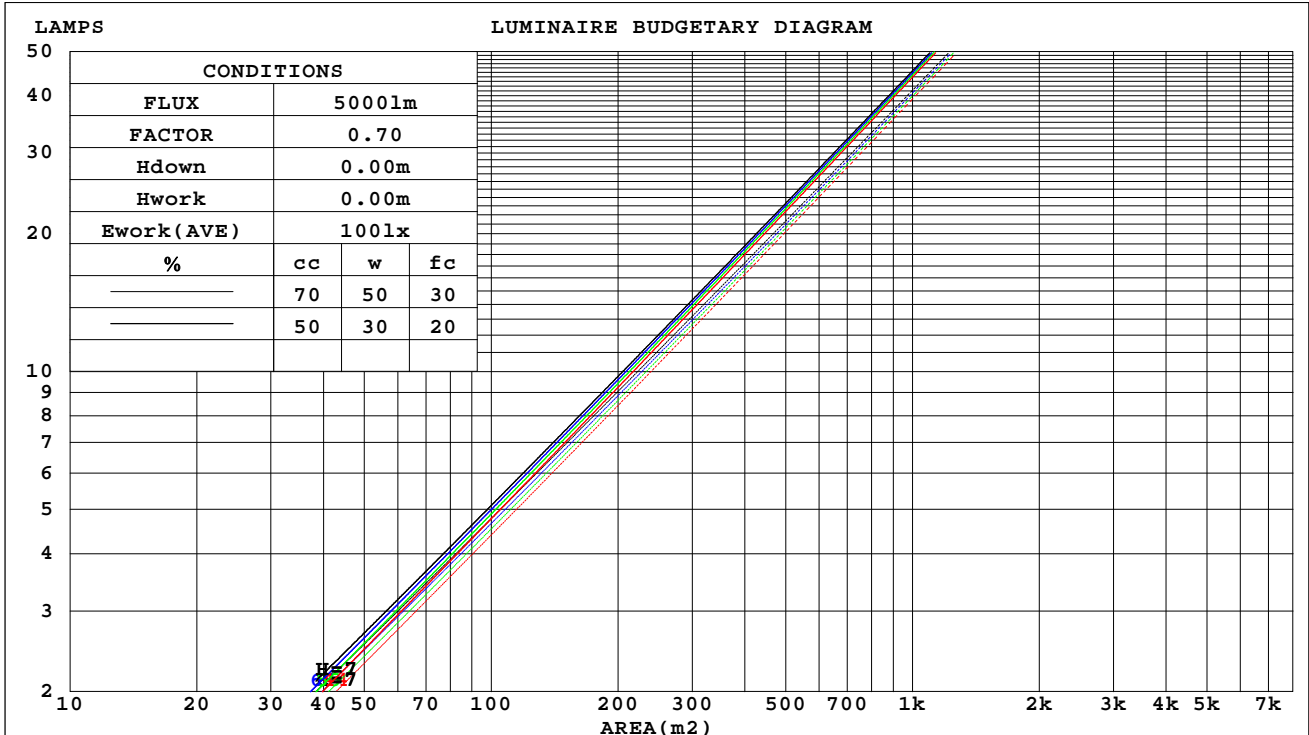
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## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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Lamp Flux:2442.23x1 lm

NAME: 2518.102	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2505100263
MFR.: RISE	SUR.: 0.006217985m2	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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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:BXRE-30G10TH-A-83 Ra:90  
LENS:15R  
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30minutes warm-up

### WEC AND CCEC

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NAME: 2518.102	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2505100263
MFR.: RISE	SUR.: 0.006217985m2	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	.073	.042	.013	.069	.039	.013	.062	.035	.011	.055	.031	.010	.048	.028	.009	
2.0	.067	.036	.011	.063	.035	.011	.057	.032	.010	.051	.029	.009	.046	.026	.008	
3.0	.061	.033	.010	.058	.031	.009	.053	.029	.009	.049	.027	.008	.044	.024	.008	
4.0	.057	.029	.009	.054	.028	.008	.050	.027	.008	.046	.025	.007	.042	.023	.007	
5.0	.053	.027	.008	.051	.026	.008	.047	.025	.007	.044	.023	.007	.041	.022	.007	
6.0	.049	.025	.007	.048	.024	.007	.045	.023	.007	.042	.022	.006	.039	.021	.006	
7.0	.047	.023	.007	.045	.023	.006	.043	.022	.006	.040	.021	.006	.038	.020	.006	
8.0	.044	.022	.006	.043	.021	.006	.041	.020	.006	.039	.020	.006	.037	.019	.005	
9.0	.042	.020	.006	.041	.020	.006	.039	.019	.005	.037	.019	.005	.035	.018	.005	
10.0	.040	.019	.005	.039	.019	.005	.037	.018	.005	.036	.018	.005	.034	.017	.005	

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	.118	.118	.118	.101	.101	.101	.069	.069	.069	.039	.039	.039	.013	.013	.013	
1.0	.103	.097	.092	.088	.084	.079	.060	.058	.055	.035	.033	.032	.011	.011	.010	
2.0	.091	.082	.074	.078	.071	.064	.054	.049	.045	.031	.028	.026	.010	.009	.009	
3.0	.081	.070	.061	.070	.060	.053	.048	.042	.037	.028	.024	.022	.009	.008	.007	
4.0	.073	.060	.051	.063	.052	.044	.043	.036	.031	.025	.021	.018	.008	.007	.006	
5.0	.066	.052	.042	.057	.045	.037	.039	.032	.026	.023	.019	.015	.007	.006	.005	
6.0	.060	.046	.036	.052	.040	.031	.036	.028	.022	.021	.016	.013	.007	.005	.004	
7.0	.055	.041	.031	.047	.035	.027	.033	.025	.019	.019	.015	.011	.006	.005	.004	
8.0	.051	.036	.027	.044	.032	.023	.030	.022	.017	.018	.013	.010	.006	.004	.003	
9.0	.047	.033	.023	.040	.028	.020	.028	.020	.014	.016	.012	.009	.005	.004	.003	
10.0	.044	.030	.020	.038	.026	.018	.026	.018	.013	.015	.011	.008	.005	.004	.003	

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Interval: 1.0DEG  
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30minutes warm-up

## UGR(Unified Glare Rating) Table

Test:U:220.07V I:0.0928A P:19.845W PF:0.9687 Freq:49.99Hz Lamp Flux:2442.23x1 lm										
NAME: 2518.102					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2505100263		
MFR.: RISE					SUR.: 0.006217985m2			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	-6.8	-6.3	-6.6	-6.1	-6.0	-6.1	-5.6	-5.9	-5.5	-5.3
3H	-6.9	-6.4	-6.7	-6.2	-6.1	-6.3	-5.8	-6.0	-5.6	-5.4
4H	-7.0	-6.5	-6.7	-6.3	-6.1	-6.3	-5.9	-6.1	-5.7	-5.5
6H	-7.1	-6.6	-6.8	-6.4	-6.2	-6.4	-6.0	-6.2	-5.8	-5.5
8H	-7.1	-6.7	-6.8	-6.4	-6.2	-6.5	-6.0	-6.2	-5.8	-5.6
12H	-7.2	-6.7	-6.9	-6.5	-6.2	-6.5	-6.1	-6.2	-5.8	-5.6
4H 2H	-7.0	-6.5	-6.7	-6.3	-6.1	-6.3	-5.9	-6.1	-5.7	-5.5
3H	-7.2	-6.7	-6.9	-6.5	-6.2	-6.5	-6.1	-6.2	-5.8	-5.6
4H	-7.3	-6.9	-6.9	-6.6	-6.3	-6.6	-6.2	-6.3	-5.9	-5.6
6H	-7.4	-7.0	-7.0	-6.7	-6.4	-6.7	-6.4	-6.4	-6.1	-5.7
8H	-7.4	-7.1	-7.0	-6.7	-6.4	-6.8	-6.5	-6.4	-6.1	-5.8
12H	-7.5	-7.2	-7.1	-6.8	-6.4	-6.8	-6.5	-6.4	-6.2	-5.8
8H 4H	-7.4	-7.1	-7.0	-6.8	-6.4	-6.8	-6.5	-6.4	-6.1	-5.8
6H	-7.5	-7.3	-7.1	-6.9	-6.5	-6.9	-6.6	-6.5	-6.2	-5.8
8H	-7.6	-7.4	-7.2	-6.9	-6.5	-7.0	-6.7	-6.5	-6.3	-5.9
12H	-7.7	-7.4	-7.2	-7.0	-6.5	-7.0	-6.8	-6.6	-6.4	-5.9
12H 4H	-7.5	-7.2	-7.1	-6.8	-6.4	-6.8	-6.5	-6.4	-6.2	-5.8
6H	-7.6	-7.4	-7.2	-6.9	-6.5	-7.0	-6.7	-6.5	-6.3	-5.9
8H	-7.7	-7.5	-7.2	-7.0	-6.6	-7.0	-6.8	-6.6	-6.4	-5.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.3 / -20.6					+ 3.8 / -23.5				
1.5H	+ 5.6 / -21.3					+ 6.0 / -23.6				
2.0H	+ 8.0 / -14.6					+ 8.2 / -17.4				

CIE Pub.117, 2442 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.1)  
Area: 0.00621798 m2

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### UTILIZATION FACTORS TABLE

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MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:

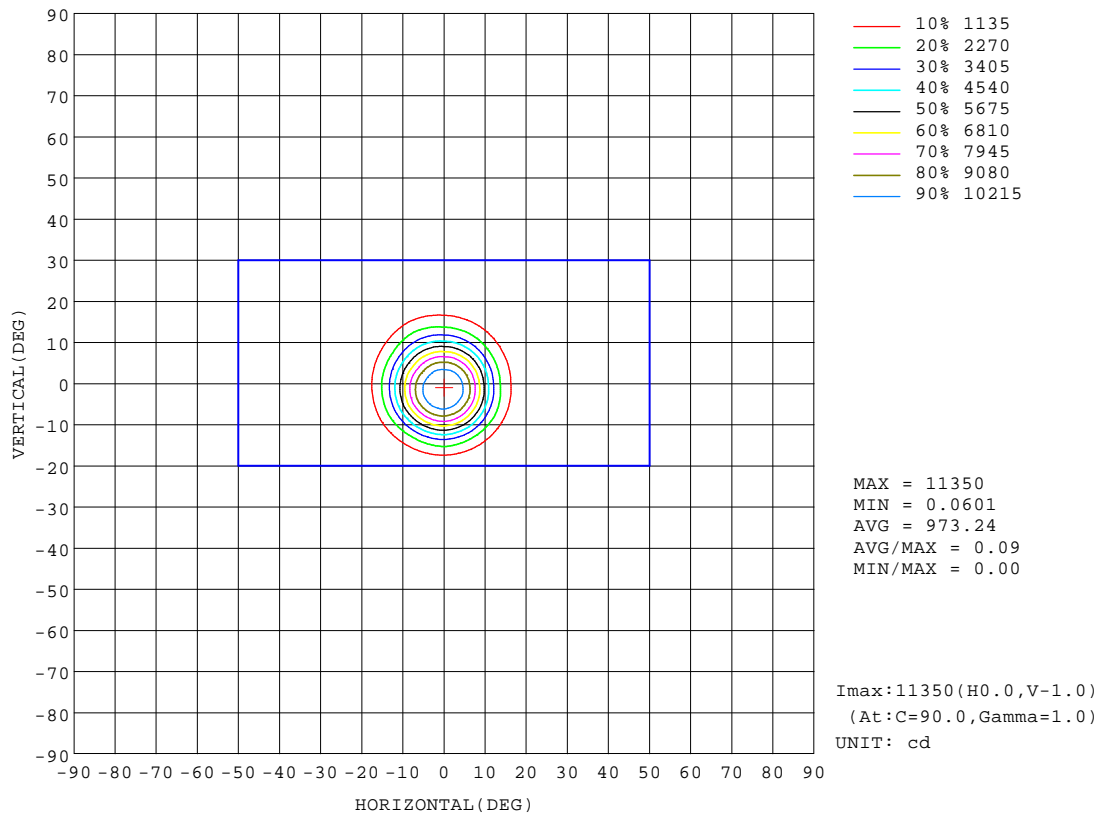
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	53	51	56	53	51	56	53	51	49
0.80	61	58	56	60	57	56	60	57	55	53
1.00	63	60	58	63	60	58	62	59	58	55
1.25	65	62	60	65	62	60	63	61	60	57
1.50	67	64	62	66	64	62	65	63	61	59
2.00	68	66	64	67	65	63	65	64	62	59
2.50	69	67	65	68	66	65	66	65	63	60
3.00	70	68	66	69	67	66	67	65	64	60
4.00	71	69	68	70	68	67	67	66	66	61
5.00	72	70	69	70	69	68	68	67	66	62
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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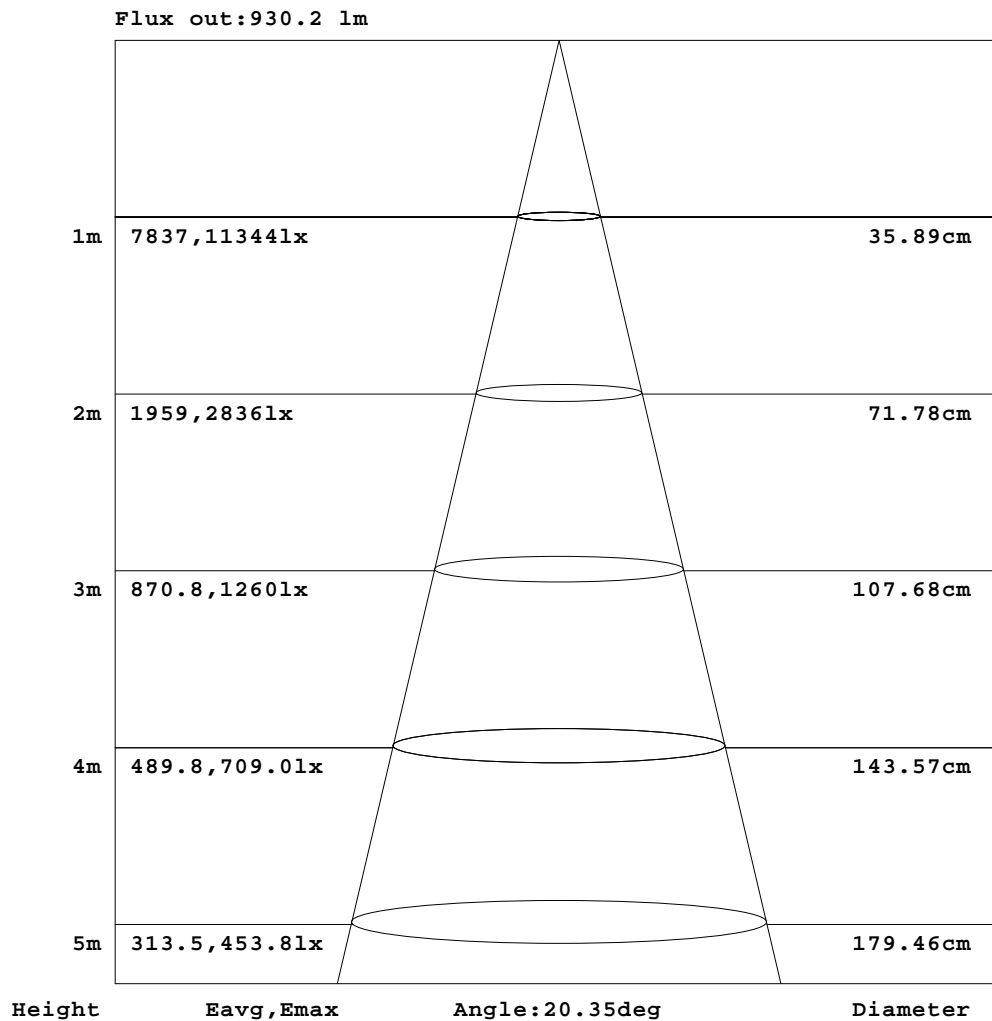


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## AAI Figure

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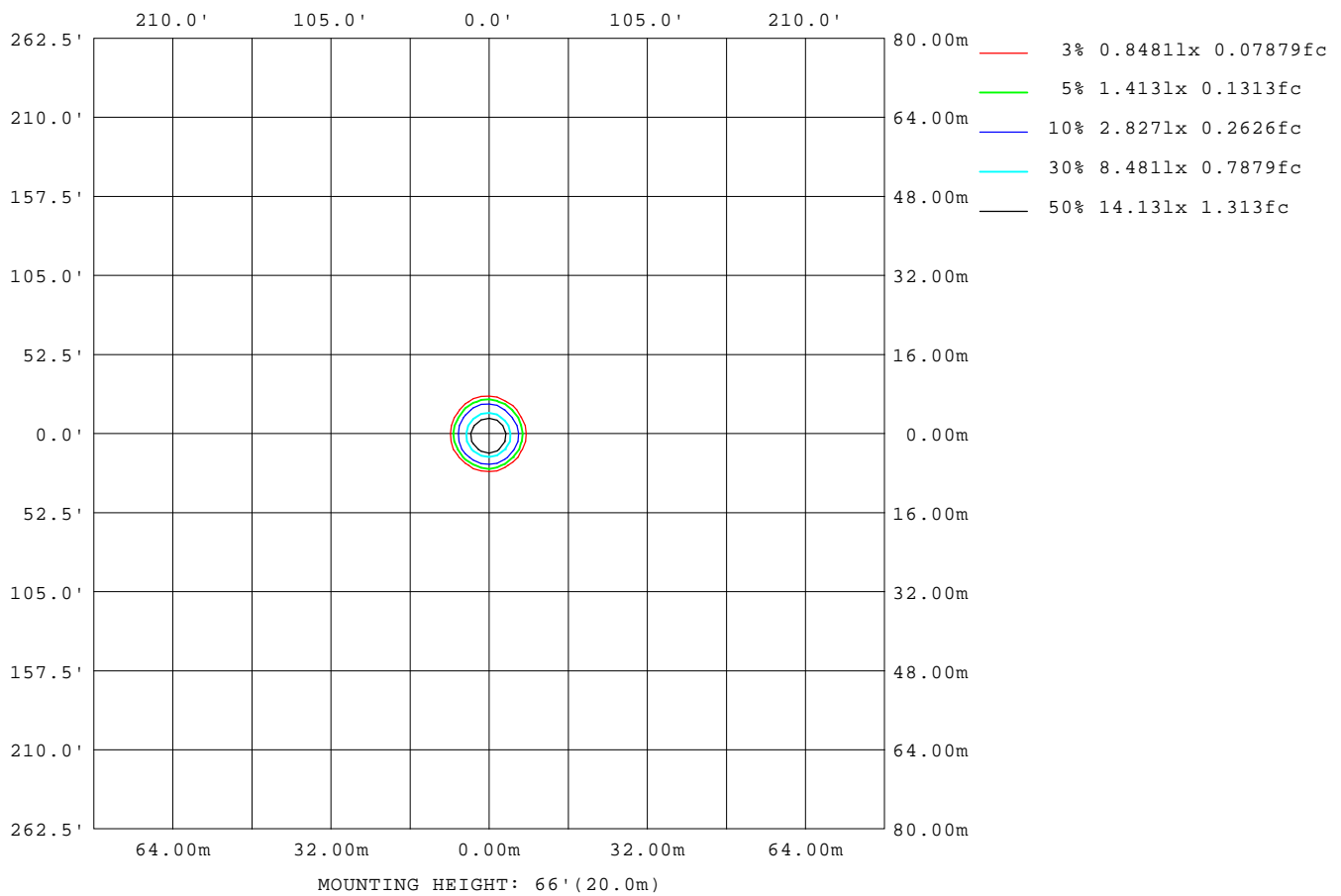
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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DRIVER:9290 039 225 500mA  
30minutes warm-up

## ISOLUX DIAGRAM

Test:U:220.07V I:0.0928A P:19.845W PF:0.9687 Freq:49.99Hz Lamp Flux:2442.23x1 lm		
NAME: 2518.102	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2505100263
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3 °C  
Operators:zoe  
Test Date:2025-5-10

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:BXRE-30G10TH-A-83 Ra:90  
LENS:15R  
DRIVER:9290 039 225 500mA  
30minutes warm-up

## LED Avg.L Report

Test:U:220.07V I:0.0928A P:19.845W PF:0.9687 Freq:49.99Hz Lamp Flux:2442.23x1 lm		
NAME: 2518.102	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2505100263
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:

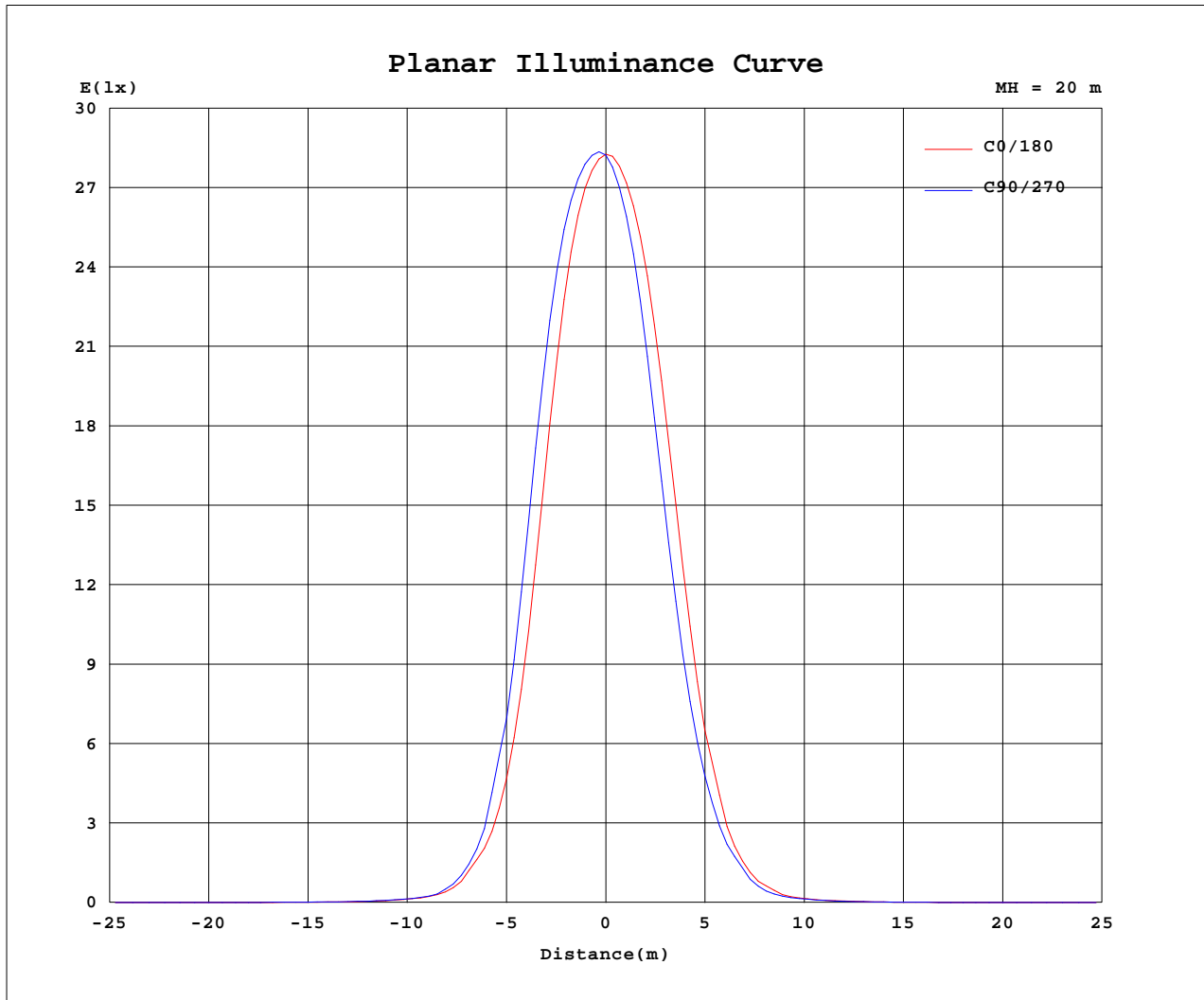
AvgL	cd/m2
L_0~180(65)av	12
L_0~180(75)av	12
L_0~180(85)av	61
L_90~270(65)av	15
L_90~270(75)av	9
L_90~270(85)av	59
L_45(65)av	11
L_45(75)av	2
L_45(85)av	9

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2025-5-10

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:BXRE-30G10TH-A-83 Ra:90  
LENS:15R  
DRIVER:9290 039 225 500mA  
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: 2025-5-10

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: BXRE-30G10TH-A-83 Ra: 90  
 LENS: 15R  
 DRIVER: 9290 039 225 500mA  
 30minutes warm-up



## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.07V I:0.0928A P:19.845W PF:0.9687 Freq:49.99Hz Lamp Flux:2442.23x1 lm		
NAME: 2518.102	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2505100263
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:

Table--1

UNIT: X10cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130	1130						
5	994	1034	1055	1074	1072	1054	1017	966	938	920	933	960						
10	534	613	678	719	710	687	630	555	512	477	478	497						
15	158	200	216	247	231	252	235	201	199	168	160	153						
20	39.0	42.8	44.6	50.0	55.7	57.4	55.5	51.1	52.5	42.9	39.9	38.4						
25	9.75	9.93	10.4	10.5	10.9	13.4	12.2	11.7	12.5	10.2	9.76	9.52						
30	3.88	3.94	3.99	4.32	4.07	4.91	4.49	4.32	4.52	4.14	3.97	3.77						
35	1.69	1.67	1.69	2.08	1.64	2.13	2.00	1.85	2.00	1.92	1.85	1.63						
40	0.85	0.86	0.89	1.03	0.84	0.87	0.91	0.90	0.94	0.95	0.86	0.76						
45	0.38	0.35	0.42	0.47	0.36	0.35	0.30	0.33	0.43	0.44	0.34	0.32						
50	0.02	0.03	0.04	0.05	0.05	0.11	0.03	0.02	0.02	0.02	0.02	0.01						
55	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01						
60	0.01	0.01	0.00	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01						
65	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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℃  
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Test Date:2025-5-10

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