

## Luminaire Photograph



Light Output Ratio:	55.8%	
Luminaire Power:	23.73 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: 2023-10-18

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: BXRE-30G2000-C-83 Ra:90  
LENS: PM-1083 15R  
DRIVER: PUP40A-1WMC-850 600mA  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

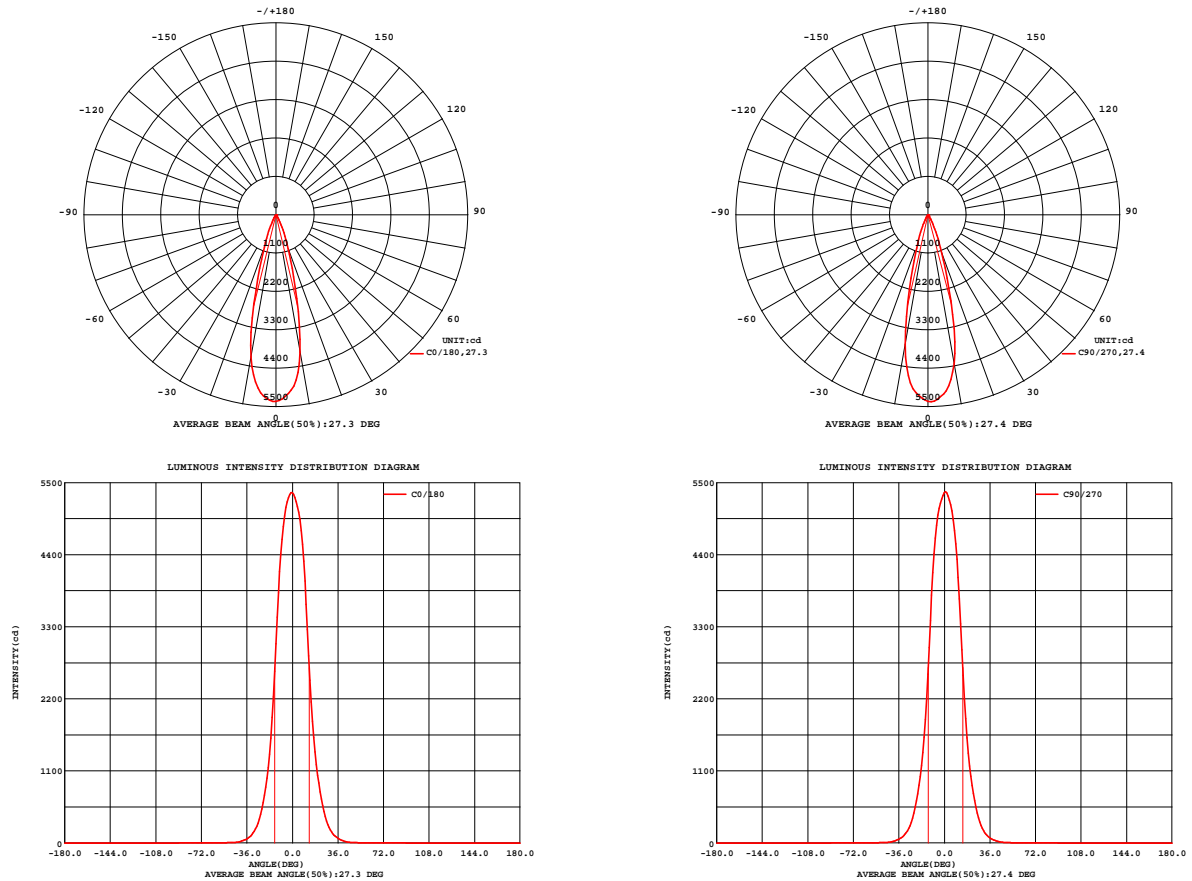


Fig. C0/C180

Fig. C90/C270

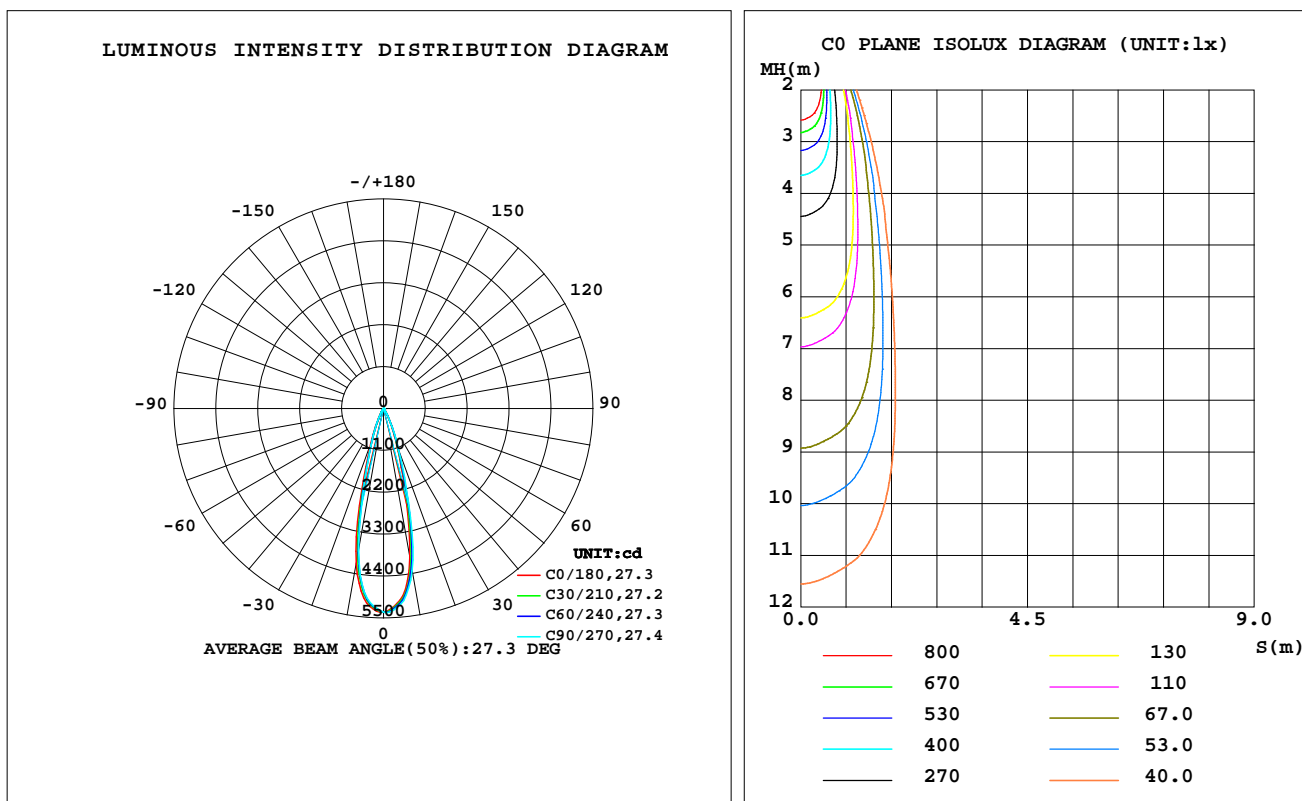
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2023-10-18

$\gamma$  Range: 0 - 180DEG  
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Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity: 65.0%  
Test Distance: 3.160m [K=1.0000]  
Remarks: LAMP: BXRE-30G2000-C-83 Ra: 90  
LENS: PM-1083 15R  
DRIVER: PUP40A-1WMC-850 600mA  
30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.06V I:0.1997A P:23.734W PF:0.9884 Freq:59.98Hz Lamp Flux:2450x1 lm		
NAME: 2318.137-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310181237
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 57.56 lm/W
MODEL	Bridgelux	Imax(cd)	5366	S/MH(C0/180)	0.44	
NOMINAL POWER(W)	24	LOR(%)	55.8	S/MH(C90/270)	0.42	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1366.1	$\eta$ UP,DN(C0-180)	0.0,29.7	
NOMINAL FLUX(lm)	2450	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,26.0	
LAMPS INSIDE	1	$\eta$ up(%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	120	$\eta$ down(%)	55.8	CIBSE SHR MAX	0.30	



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 $\gamma$  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:BXRE-30G2000-C-83 Ra:90  
LENS:PM-1083 15R  
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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	3997	4187	4329	4317	4140	3902	3782	3836	0- 10	453.6	453.6	33.2,18.5
20	1035	1121	1176	1132	988.4	887.8	882.3	950.9	10- 20	616.0	1070	78.3,43.7
30	199.8	220.6	224.0	216.2	179.6	160.4	157.2	181.5	20- 30	226.2	1296	94.9,52.9
40	35.98	39.44	39.55	36.27	29.41	26.93	27.97	32.10	30- 40	56.53	1352	99,55.2
50	5.570	6.497	6.871	6.406	5.715	6.252	6.262	5.550	40- 50	10.48	1363	99.8,55.6
60	0.5637	1.006	1.255	0.8516	0.7752	1.033	1.003	0.5761	50- 60	2.577	1365	99.9,55.7
70	0.3121	0.2582	0.2057	0.2557	0.2723	0.2237	0.1755	0.2383	60- 70	0.5716	1366	100,55.8
80	0.1206	0.0804	0.0704	0.0720	0.0872	0.0637	0.0736	0.0746	70- 80	0.1383	1366	100,55.8
90	0	0	0	0	0	0	0	0	80- 90	0.0483	1366	100,55.8
100	0	0	0	0	0	0	0	0	90-100	0	1366	100,55.8
110	0	0	0	0	0	0	0	0	100-110	0	1366	100,55.8
120	0	0	0	0	0	0	0	0	110-120	0	1366	100,55.8
130	0	0	0	0	0	0	0	0	120-130	0	1366	100,55.8
140	0	0	0	0	0	0	0	0	130-140	0	1366	100,55.8
150	0	0	0	0	0	0	0	0	140-150	0	1366	100,55.8
160	0	0	0	0	0	0	0	0	150-160	0	1366	100,55.8
170	0	0	0	0	0	0	0	0	160-170	0	1366	100,55.8
180	0	0	0	0	0	0	0	0	170-180	0	1366	100,55.8
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
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:BXRE-30G2000-C-83 Ra:90  
LENS:PM-1083 15R  
DRIVER: PUP40A-1WMC-850 600mA  
30minutes warm-up

### LUMINANCE LIMITATION CURVES

Test:U:120.06V I:0.1997A P:23.734W PF:0.9884 Freq:59.98Hz  
Lamp Flux:2450x1 lm

NAME: 2318.137-ACOT-84-AM

TYPE:

WEIGHT:

SPEC.: 3000K

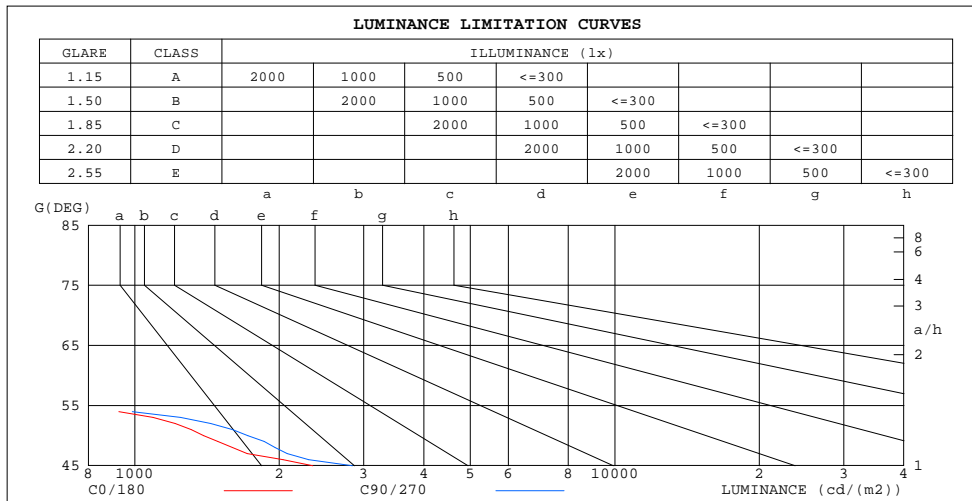
DIM.:

SERIAL No.: 2310181237

MFR.: RISE

SUR.: 0.006217985m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	140	80
80	112	65
75	102	69
70	147	97
65	183	278
60	181	404
55	711	707
50	1392	1719
45	2349	2841

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## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

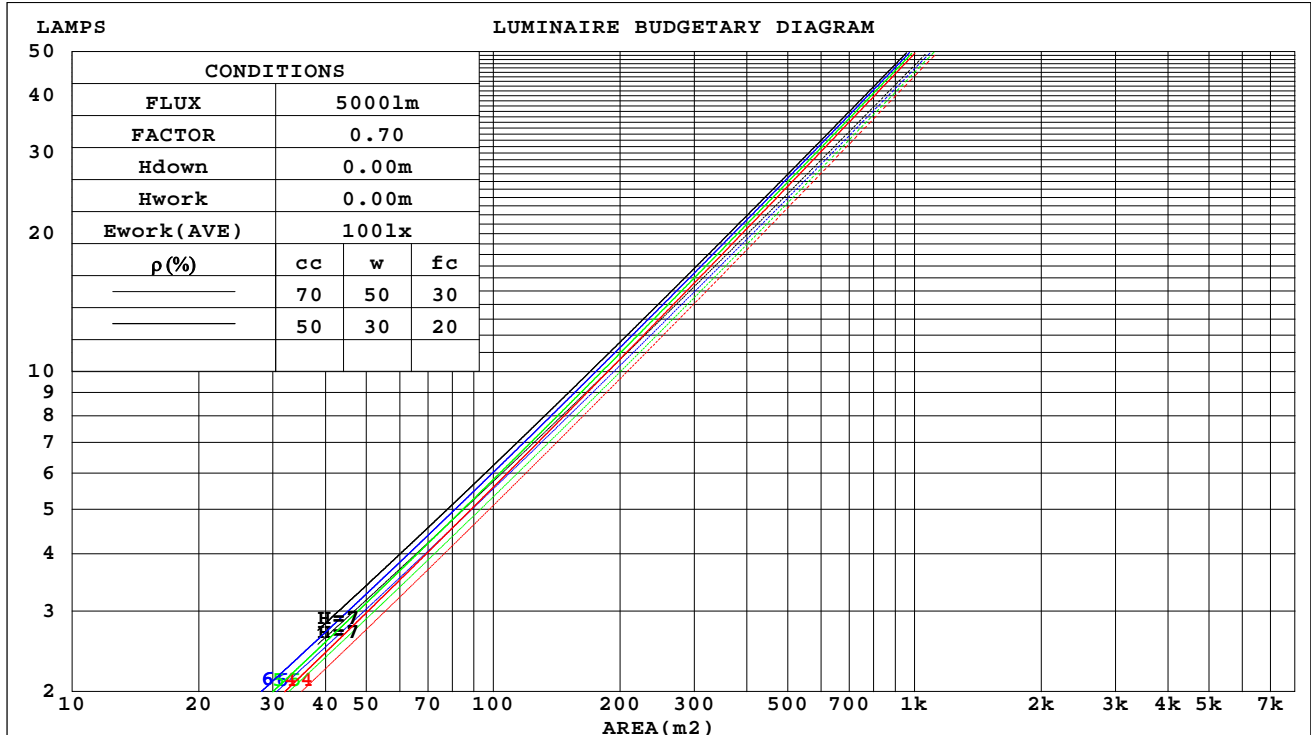
SERIAL No.: 2310181237

MFR.: RISE

SUR.: 0.006217985m2

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: 2318.137-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310181237
MFR.: RISE	SUR.: 0.006217985m2	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	.077	.044	.014	.073	.042	.013	.066	.038	.012	.060	.035	.011	.054	.031	.010	
2.0	.071	.039	.012	.068	.038	.012	.063	.035	.011	.057	.032	.010	.053	.030	.009	
3.0	.067	.035	.011	.064	.034	.010	.059	.032	.010	.055	.030	.009	.051	.028	.009	
4.0	.063	.033	.010	.060	.032	.009	.056	.030	.009	.053	.028	.009	.049	.027	.008	
5.0	.059	.030	.009	.057	.029	.009	.054	.028	.008	.051	.027	.008	.048	.025	.008	
6.0	.056	.028	.008	.054	.027	.008	.051	.026	.008	.049	.025	.007	.046	.024	.007	
7.0	.053	.026	.007	.052	.026	.007	.049	.025	.007	.047	.024	.007	.045	.023	.007	
8.0	.051	.025	.007	.050	.024	.007	.047	.024	.007	.045	.023	.007	.043	.022	.006	
9.0	.049	.024	.007	.048	.023	.007	.046	.023	.006	.044	.022	.006	.042	.021	.006	
10.0	.047	.022	.006	.046	.022	.006	.044	.022	.006	.042	.021	.006	.041	.020	.006	

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	.106	.106	.106	.091	.091	.091	.062	.062	.062	.036	.036	.036	.011	.011	.011		
1.0	.094	.088	.083	.080	.075	.071	.055	.052	.049	.032	.030	.029	.010	.010	.009		
2.0	.084	.074	.066	.072	.064	.057	.049	.044	.040	.028	.026	.023	.009	.008	.008		
3.0	.076	.063	.053	.065	.054	.046	.044	.038	.032	.026	.022	.019	.008	.007	.006		
4.0	.069	.055	.044	.059	.047	.038	.041	.033	.027	.023	.019	.016	.008	.006	.005		
5.0	.063	.048	.037	.054	.041	.032	.037	.029	.022	.022	.017	.013	.007	.006	.004		
6.0	.058	.042	.031	.050	.037	.027	.034	.026	.019	.020	.015	.011	.006	.005	.004		
7.0	.054	.038	.026	.046	.033	.023	.032	.023	.016	.019	.013	.010	.006	.004	.003		
8.0	.050	.034	.023	.043	.029	.020	.030	.021	.014	.017	.012	.008	.006	.004	.003		
9.0	.047	.031	.020	.041	.027	.017	.028	.019	.012	.016	.011	.007	.005	.004	.002		
10.0	.044	.028	.017	.038	.024	.015	.027	.017	.011	.015	.010	.006	.005	.003	.002		

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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:BXRE-30G2000-C-83 Ra:90  
LENS:PM-1083 15R  
DRIVER: PUP40A-1WMC-850 600mA  
30minutes warm-up

## UGR(Unified Glare Rating) Table

Test:U:120.06V I:0.1997A P:23.734W PF:0.9884 Freq:59.98Hz Lamp Flux:2450x1 lm										
NAME: 2318.137-ACOT-84-AM					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2310181237		
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	5.1	5.7	5.3	5.9	6.0	5.5	6.2	5.7	6.3	6.5
3H	4.9	5.5	5.2	5.7	5.9	5.4	6.0	5.6	6.2	6.4
4H	4.9	5.4	5.1	5.6	5.9	5.3	5.9	5.6	6.1	6.3
6H	4.8	5.3	5.1	5.6	5.8	5.2	5.8	5.5	6.0	6.3
8H	4.7	5.3	5.0	5.5	5.8	5.2	5.7	5.5	6.0	6.2
12H	4.7	5.2	5.0	5.5	5.7	5.1	5.7	5.4	5.9	6.2
4H 2H	4.9	5.4	5.1	5.7	5.9	5.3	5.9	5.6	6.1	6.3
3H	4.7	5.2	5.0	5.5	5.7	5.2	5.7	5.5	5.9	6.2
4H	4.6	5.1	4.9	5.4	5.7	5.1	5.5	5.4	5.8	6.1
6H	4.5	4.9	4.9	5.2	5.6	5.0	5.4	5.3	5.7	6.0
8H	4.4	4.8	4.8	5.2	5.5	4.9	5.3	5.3	5.6	6.0
12H	4.4	4.7	4.8	5.1	5.5	4.8	5.2	5.2	5.6	6.0
8H 4H	4.4	4.8	4.8	5.2	5.5	4.9	5.3	5.3	5.6	6.0
6H	4.3	4.7	4.8	5.0	5.5	4.8	5.1	5.2	5.5	5.9
8H	4.3	4.6	4.7	5.0	5.4	4.7	5.0	5.2	5.4	5.9
12H	4.2	4.5	4.7	4.9	5.4	4.7	4.9	5.1	5.4	5.8
12H 4H	4.4	4.7	4.8	5.1	5.5	4.8	5.2	5.2	5.6	6.0
6H	4.3	4.6	4.7	5.0	5.4	4.7	5.0	5.2	5.4	5.9
8H	4.2	4.5	4.7	4.9	5.4	4.7	4.9	5.1	5.4	5.8
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.5 / -15.0					+ 3.7 / -14.0				
1.5H	+ 5.9 / - 9.0					+ 6.1 / -10.2				
2.0H	+ 5.0 / - 9.3					+ 5.5 / - 6.6				

CIE Pub.117, 2450 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.1)  
Area: 0.00621798 m2

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Humidity:65.0%  
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30minutes warm-up



### UTILIZATION FACTORS TABLE

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SPEC.: 3000K	DIM.:	SERIAL No.: 2310181237
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:

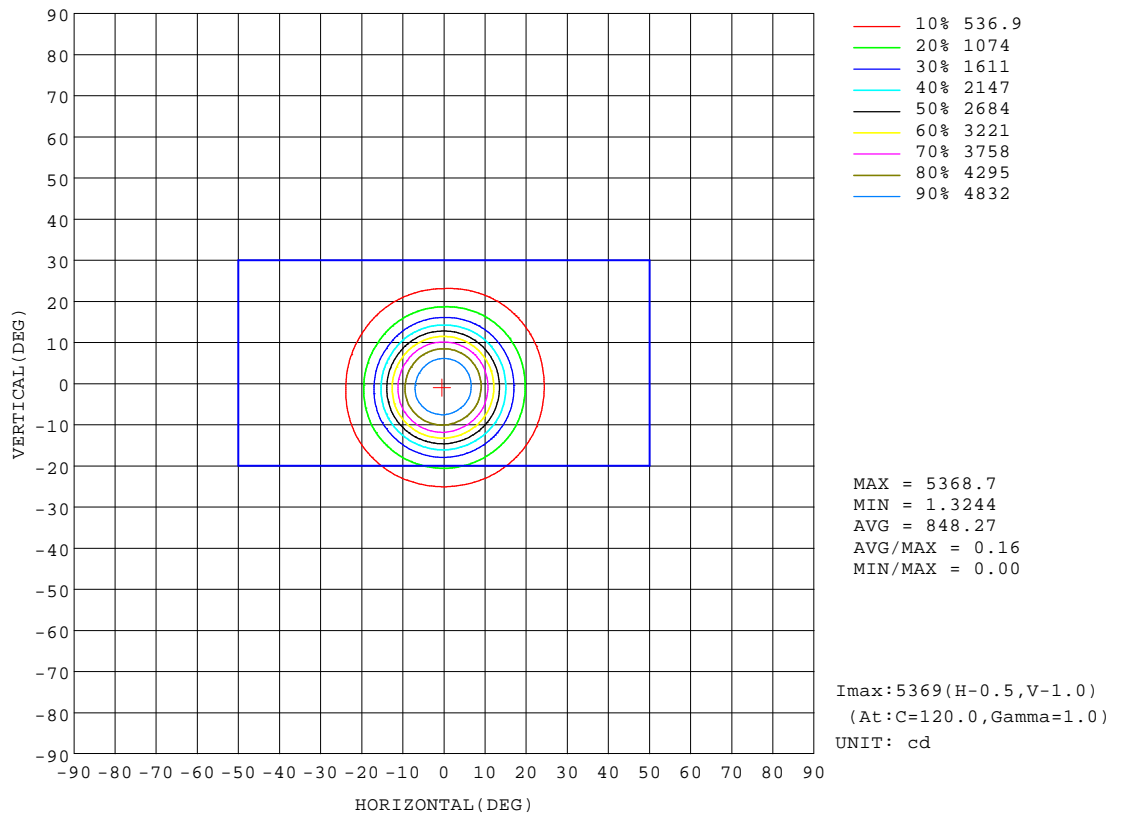
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	51	48	46	50	47	46	50	47	46	44
0.80	55	52	50	54	52	50	54	51	50	48
1.00	57	54	52	56	54	52	55	53	52	50
1.25	59	56	54	58	56	54	57	55	54	52
1.50	60	58	56	59	57	56	58	56	55	53
2.00	61	59	58	60	59	57	59	57	56	54
2.50	62	60	59	61	59	58	59	58	57	54
3.00	63	61	60	62	60	59	60	59	58	54
4.00	64	62	61	63	62	61	61	60	59	55
5.00	65	63	63	63	62	62	61	60	60	56
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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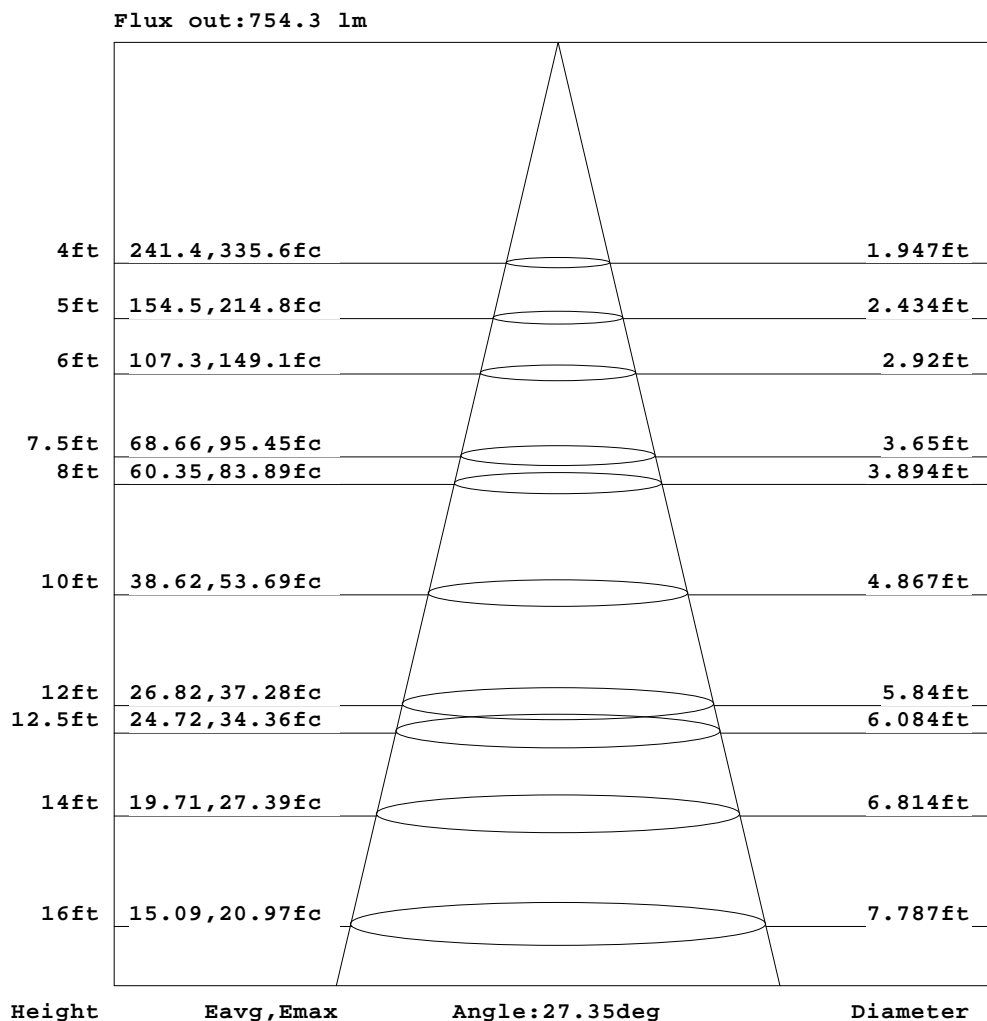


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## AAI Figure

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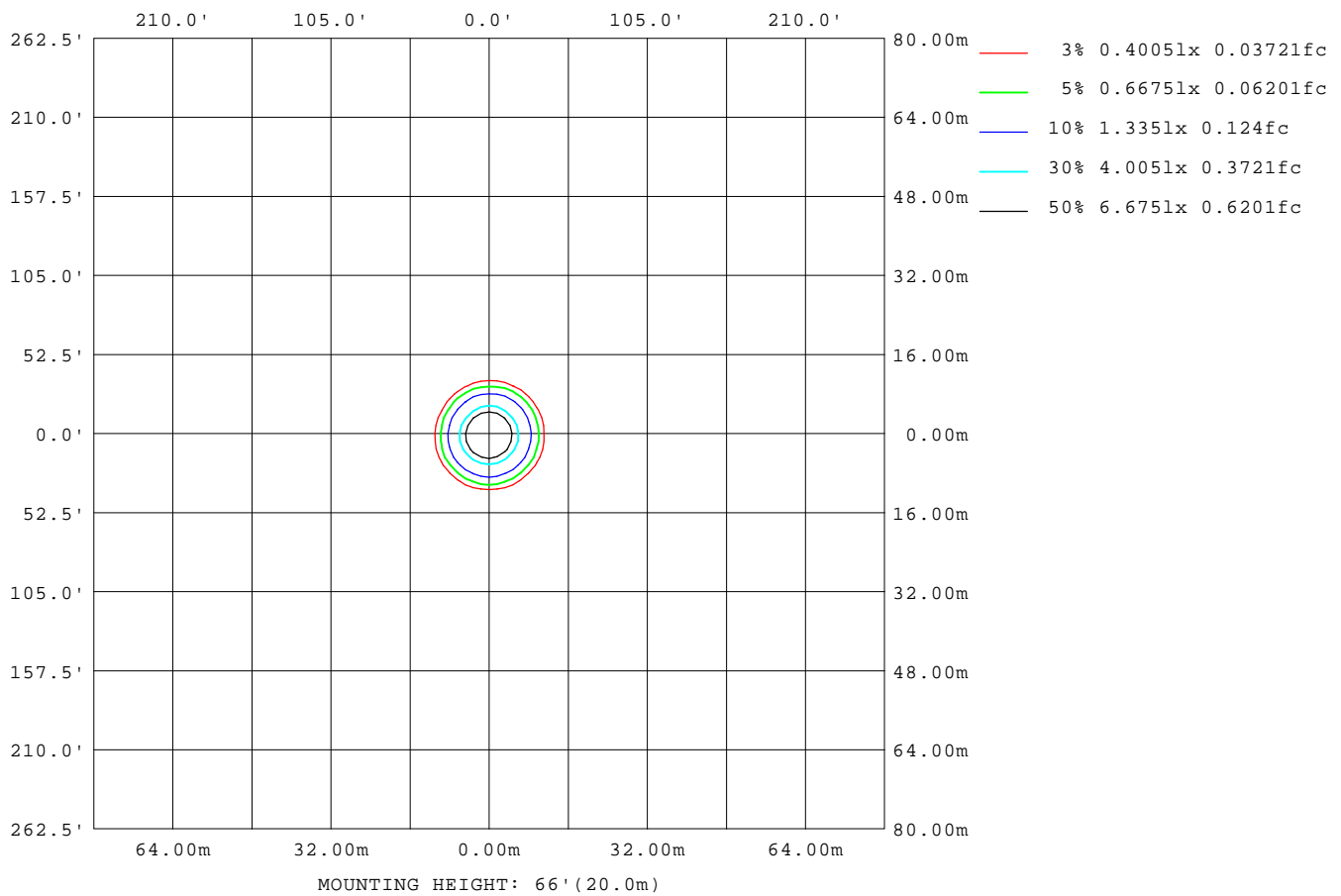
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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C Interval: 30.0DEG  
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Temperature: 25.3 °C  
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Test Distance: 3.160m [K=1.0000]  
Remarks: LAMP: BXRE-30G2000-C-83 Ra: 90  
LENS: PM-1083 15R  
DRIVER: PUP40A-1WMC-850 600mA  
30minutes warm-up

## ISOLUX DIAGRAM

Test:U:120.06V I:0.1997A P:23.734W PF:0.9884 Freq:59.98Hz Lamp Flux:2450x1 lm		
NAME: 2318.137-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310181237
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-10-18

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:BXRE-30G2000-C-83 Ra:90  
LENS:PM-1083 15R  
DRIVER: PUP40A-1WMC-850 600mA  
30minutes warm-up

## LED Avg.L Report

Test:U:120.06V I:0.1997A P:23.734W PF:0.9884 Freq:59.98Hz Lamp Flux:2450x1 lm		
NAME: 2318.137-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310181237
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:

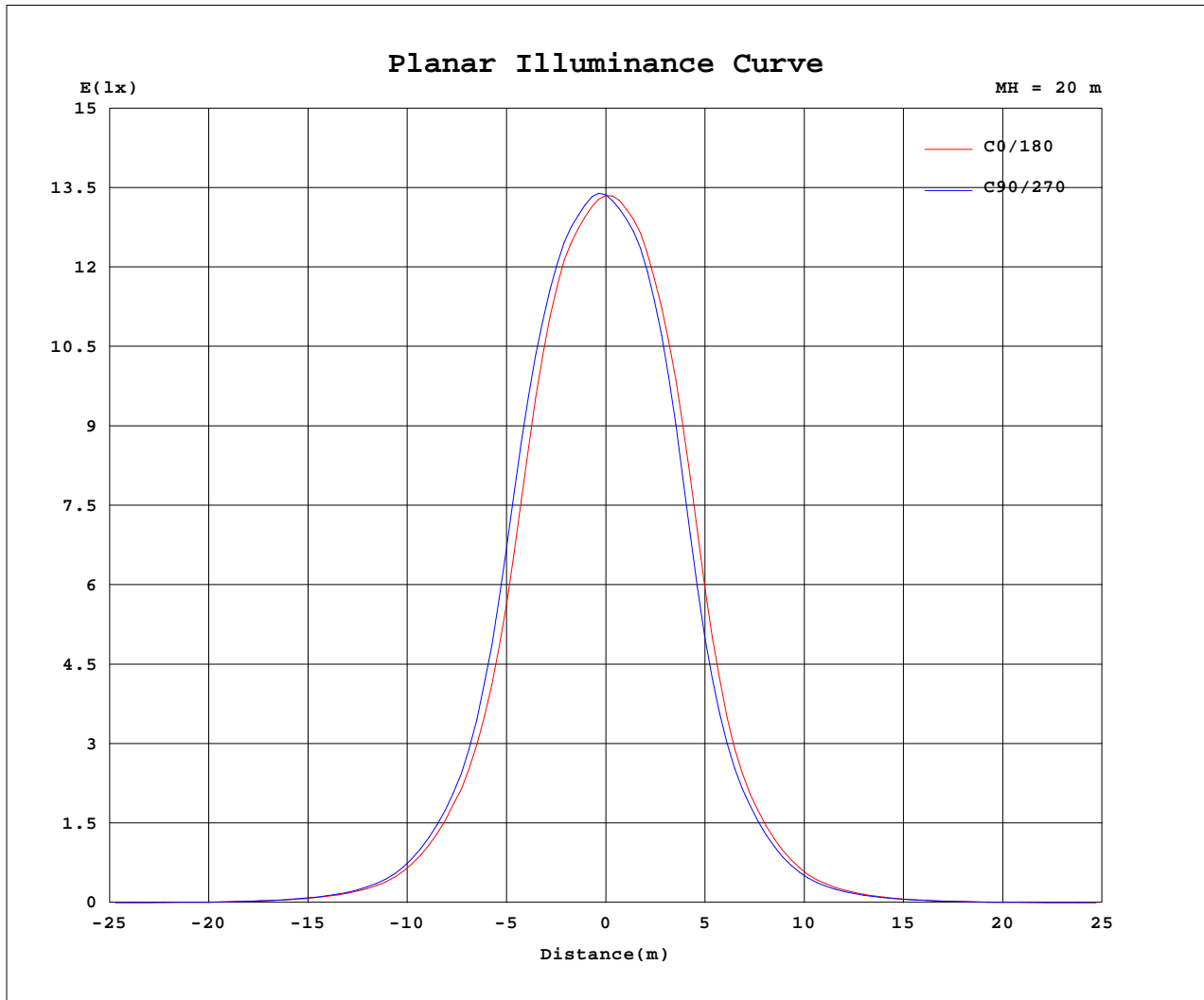
AvgL	cd/m2
L_0~180(65)av	206
L_0~180(75)av	90
L_0~180(85)av	124
L_90~270(65)av	238
L_90~270(75)av	68
L_90~270(85)av	78
L_45(65)av	226
L_45(75)av	71
L_45(85)av	62

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-10-18

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:BXRE-30G2000-C-83 Ra:90  
LENS:PM-1083 15R  
DRIVER: PUP40A-1WMC-850 600mA  
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: 2023-10-18

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: BXRE-30G2000-C-83 Ra: 90  
 LENS: PM-1083 15R  
 DRIVER: PUP40A-1WMC-850 600mA  
 30minutes warm-up

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.06V I:0.1997A P:23.734W PF:0.9884 Freq:59.98Hz Lamp Flux:2450x1 lm		
NAME: 2318.137-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310181237
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	5346	5346	5346	5346	5346	5346	5346	5346	5346	5346	5346	5346						
5	5046	5088	5121	5161	5180	5171	5123	5051	5019	5002	5008	5011						
10	3997	4142	4231	4329	4344	4290	4140	3955	3849	3782	3800	3871						
15	2151	2318	2441	2556	2564	2469	2231	2010	1945	1883	1967	2022						
20	1035	1105	1138	1176	1158	1106	988	903	873	882	928	974						
25	482	518	537	546	540	507	437	390	383	380	423	456						
30	200	218	223	224	221	212	180	161	159	157	175	188						
35	88.6	93.7	96.5	95.8	93.5	88.2	75.8	68.8	68.4	69.0	76.1	83.1						
40	36.0	38.8	40.1	39.5	37.6	34.9	29.4	26.7	27.2	28.0	30.8	33.4						
45	10.3	11.7	12.4	12.5	11.3	10.2	8.47	8.45	9.15	9.53	8.75	10.0						
50	5.57	6.28	6.72	6.87	6.42	6.39	5.71	6.07	6.43	6.26	5.71	5.39						
55	2.54	3.32	2.93	2.52	2.68	2.80	2.25	2.22	2.27	2.15	2.07	1.97						
60	0.56	0.76	1.25	1.26	0.91	0.79	0.78	0.88	1.19	1.00	0.63	0.52						
65	0.48	0.59	0.79	0.73	0.62	0.63	0.60	0.61	0.69	0.52	0.41	0.41						
70	0.31	0.26	0.25	0.21	0.22	0.30	0.27	0.26	0.19	0.18	0.21	0.27						
75	0.16	0.14	0.12	0.11	0.11	0.11	0.12	0.11	0.10	0.11	0.11	0.13						
80	0.12	0.08	0.08	0.07	0.07	0.07	0.09	0.07	0.06	0.07	0.07	0.08						
85	0.08	0.04	0.04	0.04	0.04	0.04	0.06	0.03	0.03	0.04	0.03	0.04						
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:2023-10-18

γ Range: 0 - 180DEG  
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Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
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