

## Luminaire Photograph



Light Output Ratio:	63.8%	
Luminaire Power:	17.31 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: 2023-7-13

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: BXRV-DR-1830G-1000-K-23 Ra:90  
LENS: PM-1096A 24R  
DRIVER: PUP20A-1WMC 450mA  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

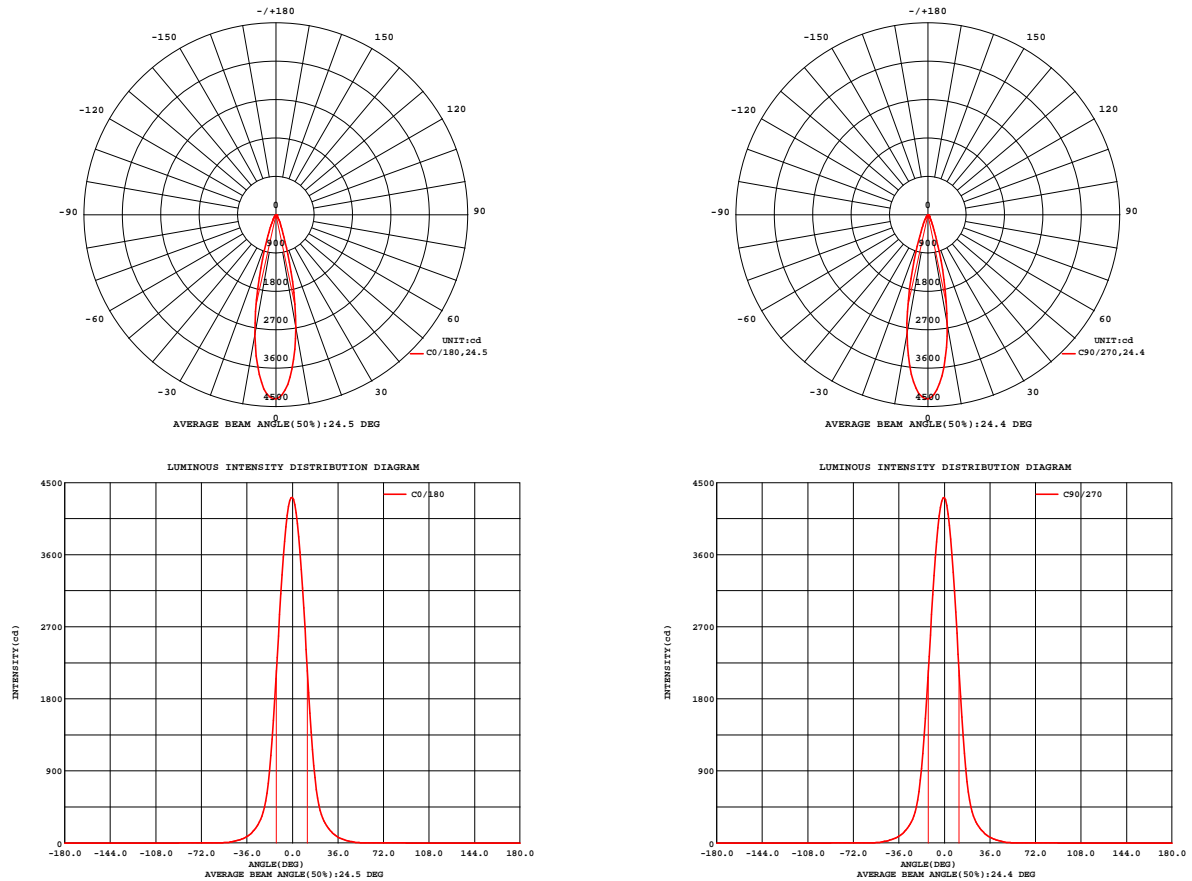


Fig. C0/C180

Fig. C90/C270

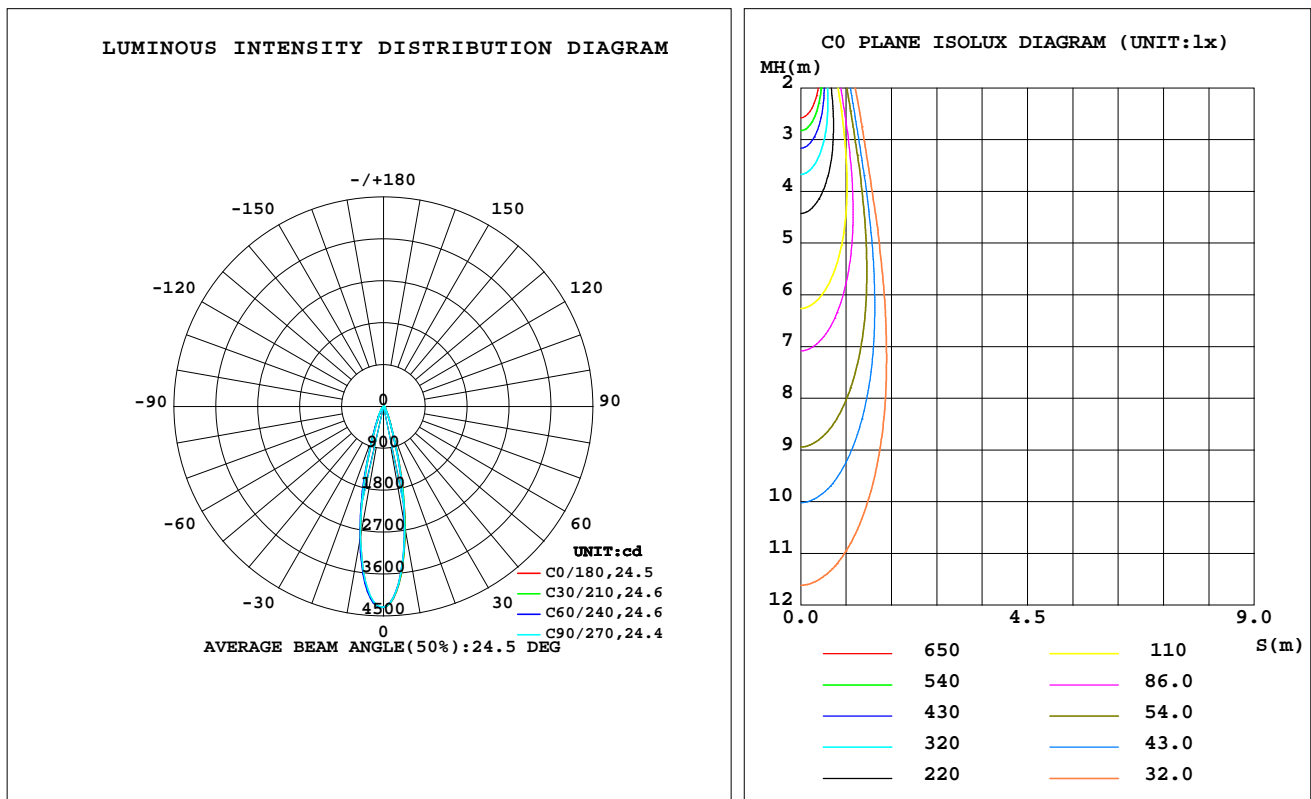
C Range: 0 - 360DEG  
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Temperature: 25.3 °C  
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Humidity: 65.0%  
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Remarks: LAMP: BXR V-DR-1830G-1000-K-23 Ra: 90  
LENS: PM-1096A 24R  
DRIVER: PUP20A-1WMC 450mA  
30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.18V I:0.1448A P:17.313W PF:0.9937 Freq:59.98Hz Lamp Flux:1493.63x1 lm		
NAME: 2118.193-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307120896
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 55.02 lm/W			
MODEL	Bridgelux	I <sub>max</sub> (cd)	4315	S/MH(C0/180)	0.42
NOMINAL POWER(W)	17	LOR(%)	63.8	S/MH(C90/270)	0.42
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	952.57	η UP,DN(C0-180)	0.0,30.7
NOMINAL FLUX(lm)	1493.63	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,33.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	120	η down(%)	63.8	CIBSE SHR MAX	0.30



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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:BXRV-DR-1830G-1000-K-23 Ra:90  
LENS: PM-1096A 24R  
DRIVER: PUP20A-1WMC 450mA  
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	2680	2632	2622	2725	2851	2906	2850	2724	0- 10	332.9	332.9	35,22.3
20	561.0	547.8	536.0	566.7	621.5	656.6	641.2	581.7	10- 20	399.8	732.7	76.9,49.1
30	154.6	153.1	148.5	151.8	163.6	174.7	165.8	155.6	20- 30	138.4	871.1	91.4,58.3
40	46.47	44.19	44.03	47.04	49.39	52.54	53.02	49.36	30- 40	57.34	928.4	97.5,62.2
50	5.787	5.390	5.359	5.762	7.249	10.05	10.09	8.226	40- 50	19.25	947.7	99.5,63.4
60	1.841	1.817	1.868	1.966	2.231	2.288	2.229	2.102	50- 60	3.349	951.0	99.8,63.7
70	0.5787	0.5973	0.6115	0.6796	0.7281	0.6812	0.5823	0.5442	60- 70	1.165	952.2	100,63.8
80	0.0890	0.0796	0.0490	0.1086	0.1965	0.0875	0.0427	0.0582	70- 80	0.3344	952.5	100,63.8
90	0	0	0	0	0	0	0	0	80- 90	0.0271	952.6	100,63.8
100	0	0	0	0	0	0	0	0	90-100	0	952.6	100,63.8
110	0	0	0	0	0	0	0	0	100-110	0	952.6	100,63.8
120	0	0	0	0	0	0	0	0	110-120	0	952.6	100,63.8
130	0	0	0	0	0	0	0	0	120-130	0	952.6	100,63.8
140	0	0	0	0	0	0	0	0	130-140	0	952.6	100,63.8
150	0	0	0	0	0	0	0	0	140-150	0	952.6	100,63.8
160	0	0	0	0	0	0	0	0	150-160	0	952.6	100,63.8
170	0	0	0	0	0	0	0	0	160-170	0	952.6	100,63.8
180	0	0	0	0	0	0	0	0	170-180	0	952.6	100,63.8
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
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Temperature:25.3℃  
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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:BXRV-DR-1830G-1000-K-23 Ra:90  
LENS: PM-1096A 24R  
DRIVER: PUP20A-1WMC 450mA  
30minutes warm-up

## LUMINANCE LIMITATION CURVES

Test:U:120.18V I:0.1448A P:17.313W PF:0.9937 Freq:59.98Hz  
Lamp Flux:1493.63x1 lm

NAME: 2118.193-LEA-15-DW

TYPE:

WEIGHT:

SPEC.: 3000K

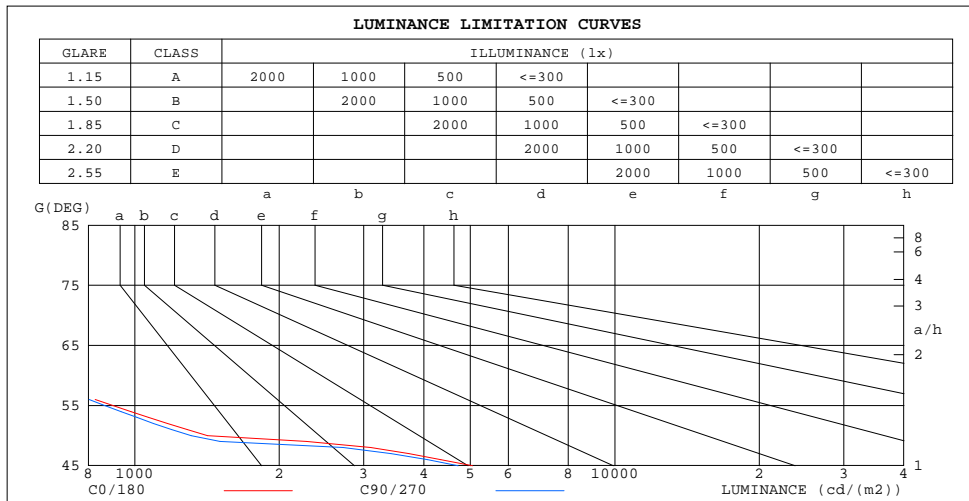
DIM.:

SERIAL No.: 2307120896

MFR.: RISE

SUR.: 0.0063585m2

Shielding Angle:



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## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

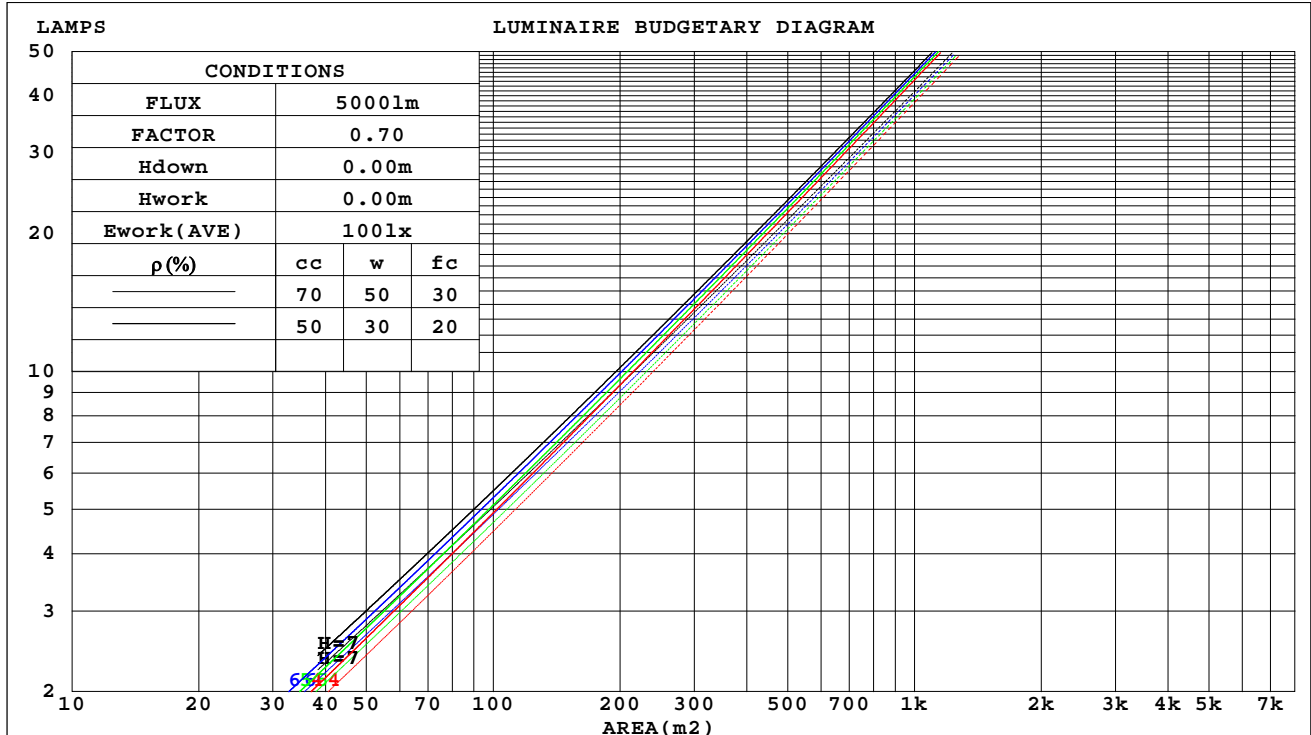
SERIAL No.: 2307120896

MFR.: RISE

SUR.: 0.0063585m2

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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### WEC AND CCEC

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NAME: 2118.193-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307120896
MFR.: RISE	SUR.: 0.0063585m2	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	.089	.051	.016	.085	.048	.015	.077	.044	.014	.070	.040	.013	.063	.037	.012	
2.0	.083	.045	.014	.080	.044	.013	.073	.041	.013	.067	.038	.012	.061	.035	.011	
3.0	.078	.041	.012	.075	.040	.012	.069	.038	.011	.064	.035	.011	.059	.033	.010	
4.0	.073	.038	.011	.070	.037	.011	.066	.035	.010	.062	.033	.010	.058	.031	.010	
5.0	.069	.035	.010	.067	.034	.010	.063	.033	.010	.059	.031	.009	.056	.030	.009	
6.0	.065	.033	.009	.063	.032	.009	.060	.031	.009	.057	.029	.009	.054	.028	.008	
7.0	.062	.031	.009	.060	.030	.009	.057	.029	.008	.055	.028	.008	.052	.027	.008	
8.0	.059	.029	.008	.058	.028	.008	.055	.027	.008	.053	.027	.008	.050	.026	.008	
9.0	.056	.027	.008	.055	.027	.008	.053	.026	.007	.051	.025	.007	.049	.025	.007	
10.0	.054	.026	.007	.053	.026	.007	.051	.025	.007	.049	.024	.007	.047	.024	.007	

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	.121	.121	.121	.104	.104	.104	.071	.071	.071	.041	.041	.041	.013	.013	.013	
1.0	.107	.101	.094	.092	.086	.081	.063	.059	.056	.036	.034	.033	.012	.011	.011	
2.0	.096	.085	.075	.082	.073	.065	.056	.050	.045	.033	.029	.027	.010	.009	.009	
3.0	.087	.072	.061	.074	.062	.053	.051	.043	.037	.029	.025	.022	.009	.008	.007	
4.0	.079	.062	.050	.068	.054	.043	.047	.038	.031	.027	.022	.018	.009	.007	.006	
5.0	.072	.055	.042	.062	.047	.036	.043	.033	.026	.025	.019	.015	.008	.006	.005	
6.0	.067	.048	.035	.057	.042	.031	.040	.029	.022	.023	.017	.013	.007	.006	.004	
7.0	.062	.043	.030	.053	.037	.026	.037	.026	.019	.021	.015	.011	.007	.005	.004	
8.0	.058	.039	.026	.050	.034	.023	.034	.024	.016	.020	.014	.010	.006	.005	.003	
9.0	.054	.035	.023	.047	.031	.020	.032	.022	.014	.019	.013	.008	.006	.004	.003	
10.0	.051	.032	.020	.044	.028	.017	.030	.020	.012	.018	.012	.007	.006	.004	.002	

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Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
Humidity:65.0%  
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30minutes warm-up

## UGR(Unified Glare Rating) Table

Test:U:120.18V I:0.1448A P:17.313W PF:0.9937 Freq:59.98Hz Lamp Flux:1493.63x1 lm										
NAME: 2118.193-LEA-15-DW					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2307120896		
MFR.: RISE					SUR.: 0.0063585m2			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	7.9	8.5	8.1	8.7	8.9	7.6	8.2	7.8	8.4	8.5
3H	7.7	8.4	8.0	8.6	8.7	7.4	8.0	7.7	8.2	8.4
4H	7.7	8.3	7.9	8.5	8.7	7.3	7.9	7.6	8.1	8.4
6H	7.6	8.1	7.9	8.4	8.6	7.3	7.8	7.5	8.1	8.3
8H	7.5	8.1	7.8	8.3	8.6	7.2	7.8	7.5	8.0	8.3
12H	7.5	8.0	7.8	8.3	8.5	7.2	7.7	7.5	8.0	8.2
4H 2H	7.7	8.3	7.9	8.5	8.7	7.3	7.9	7.6	8.1	8.4
3H	7.5	8.0	7.8	8.3	8.6	7.2	7.7	7.5	8.0	8.2
4H	7.4	7.9	7.8	8.2	8.5	7.1	7.6	7.4	7.9	8.2
6H	7.3	7.7	7.7	8.1	8.4	7.0	7.4	7.4	7.8	8.1
8H	7.3	7.7	7.7	8.0	8.4	6.9	7.3	7.3	7.7	8.1
12H	7.2	7.6	7.6	7.9	8.3	6.9	7.3	7.3	7.6	8.0
8H 4H	7.3	7.7	7.7	8.0	8.4	7.0	7.3	7.3	7.7	8.1
6H	7.2	7.5	7.6	7.9	8.3	6.8	7.2	7.3	7.6	8.0
8H	7.1	7.4	7.5	7.8	8.2	6.8	7.1	7.2	7.5	7.9
12H	7.0	7.3	7.5	7.7	8.2	6.7	7.0	7.2	7.4	7.9
12H 4H	7.2	7.6	7.6	7.9	8.3	6.9	7.3	7.3	7.6	8.0
6H	7.1	7.4	7.5	7.8	8.2	6.8	7.1	7.2	7.5	7.9
8H	7.0	7.3	7.5	7.7	8.2	6.7	7.0	7.2	7.4	7.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.1 / -10.8					+ 3.1 / -10.7				
1.5H	+ 5.1 / - 9.4					+ 5.1 / - 9.1				
2.0H	+ 7.2 / - 7.1					+ 6.9 / - 7.1				

CIE Pub.117, 1494 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.4)  
Area: 0.0063585 m2

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Humidity:65.0%  
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30minutes warm-up



### UTILIZATION FACTORS TABLE

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NAME: 2118.193-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307120896
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

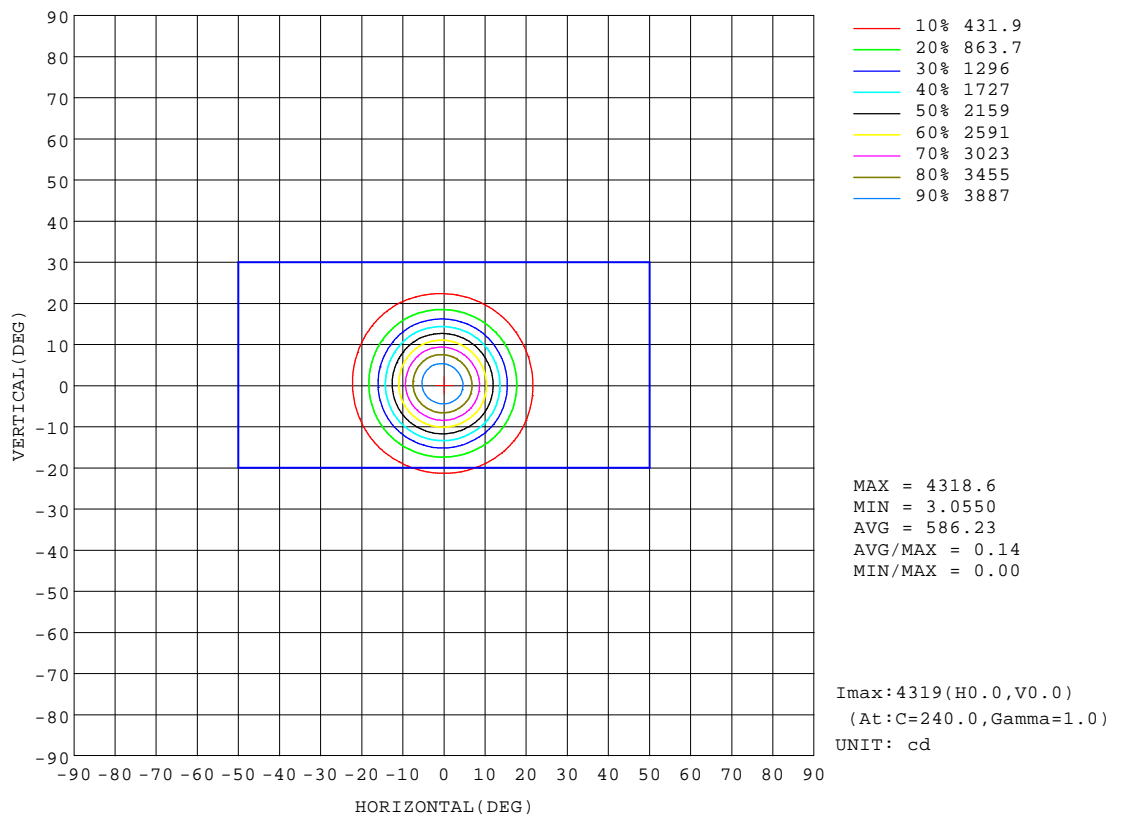
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	54	51	57	54	51	57	53	51	49
0.80	62	58	56	62	58	56	61	58	56	54
1.00	64	61	59	64	61	59	63	61	59	56
1.25	67	64	62	66	63	61	65	63	61	58
1.50	68	66	64	68	65	63	66	64	63	60
2.00	70	67	66	69	67	65	67	65	64	61
2.50	71	69	67	70	68	66	68	66	65	61
3.00	72	70	68	71	69	67	68	67	66	62
4.00	73	71	70	72	70	69	69	68	67	63
5.00	74	72	71	72	71	70	70	69	68	64
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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SPEC.: 3000K	DIM.:	SERIAL No.: 2307120896
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

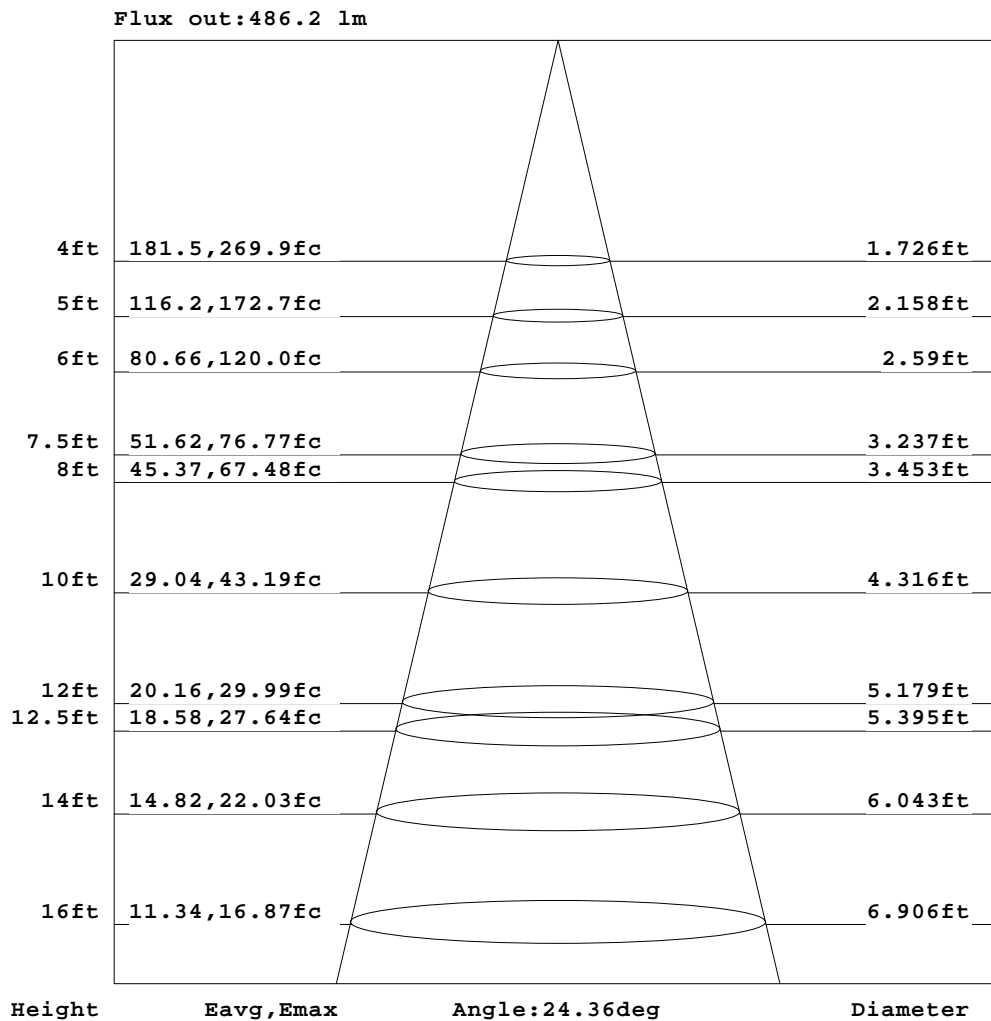


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## AAI Figure

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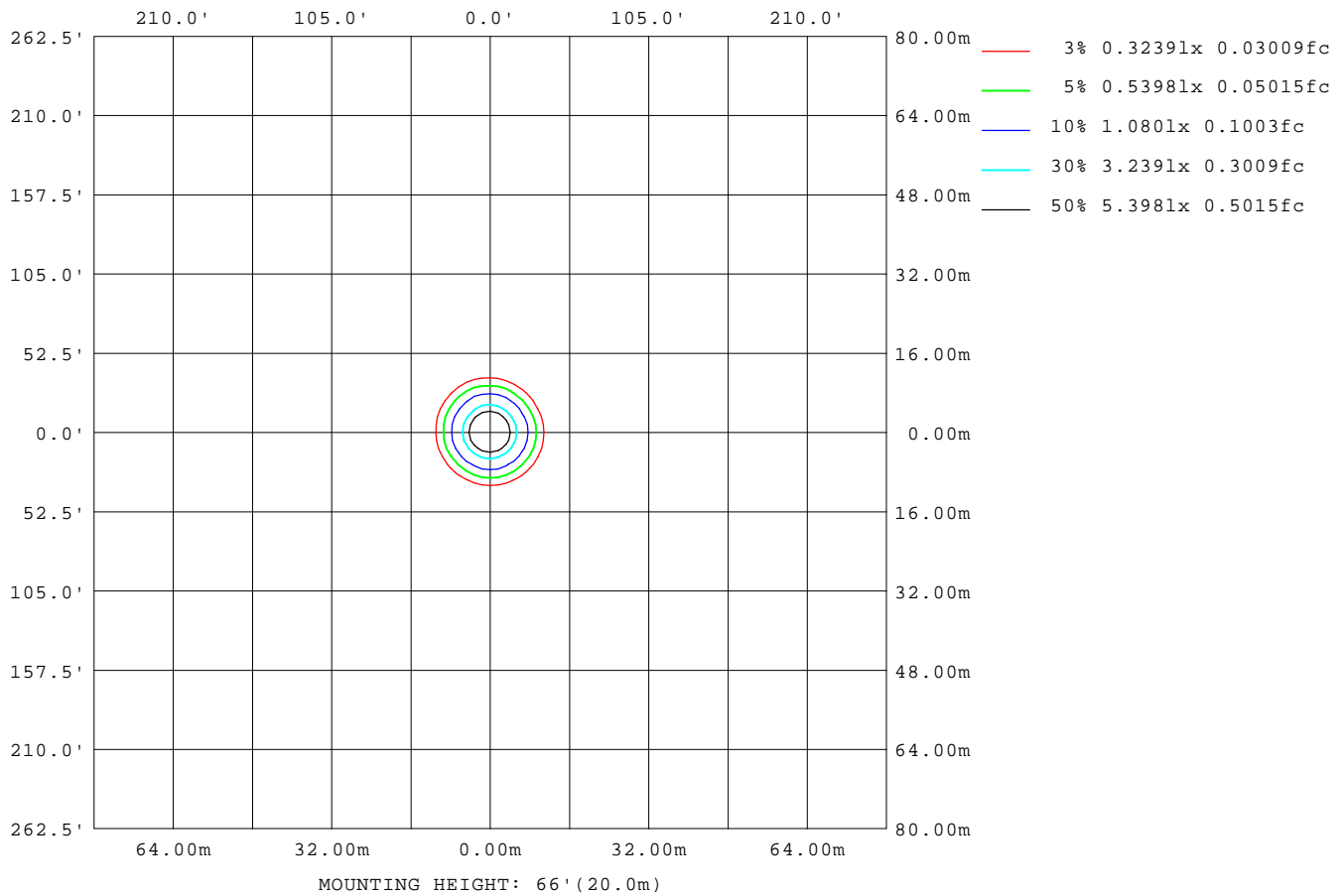
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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30minutes warm-up

## ISOLUX DIAGRAM

Test:U:120.18V I:0.1448A P:17.313W PF:0.9937 Freq:59.98Hz Lamp Flux:1493.63x1 lm		
NAME: 2118.193-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307120896
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:zoe  
Test Date:2023-7-13

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:BXRV-DR-1830G-1000-K-23 Ra:90  
LENS: PM-1096A 24R  
DRIVER: PUP20A-1WMC 450mA  
30minutes warm-up

## LED Avg.L Report

Test:U:120.18V I:0.1448A P:17.313W PF:0.9937 Freq:59.98Hz Lamp Flux:1493.63x1 lm		
NAME: 2118.193-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307120896
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

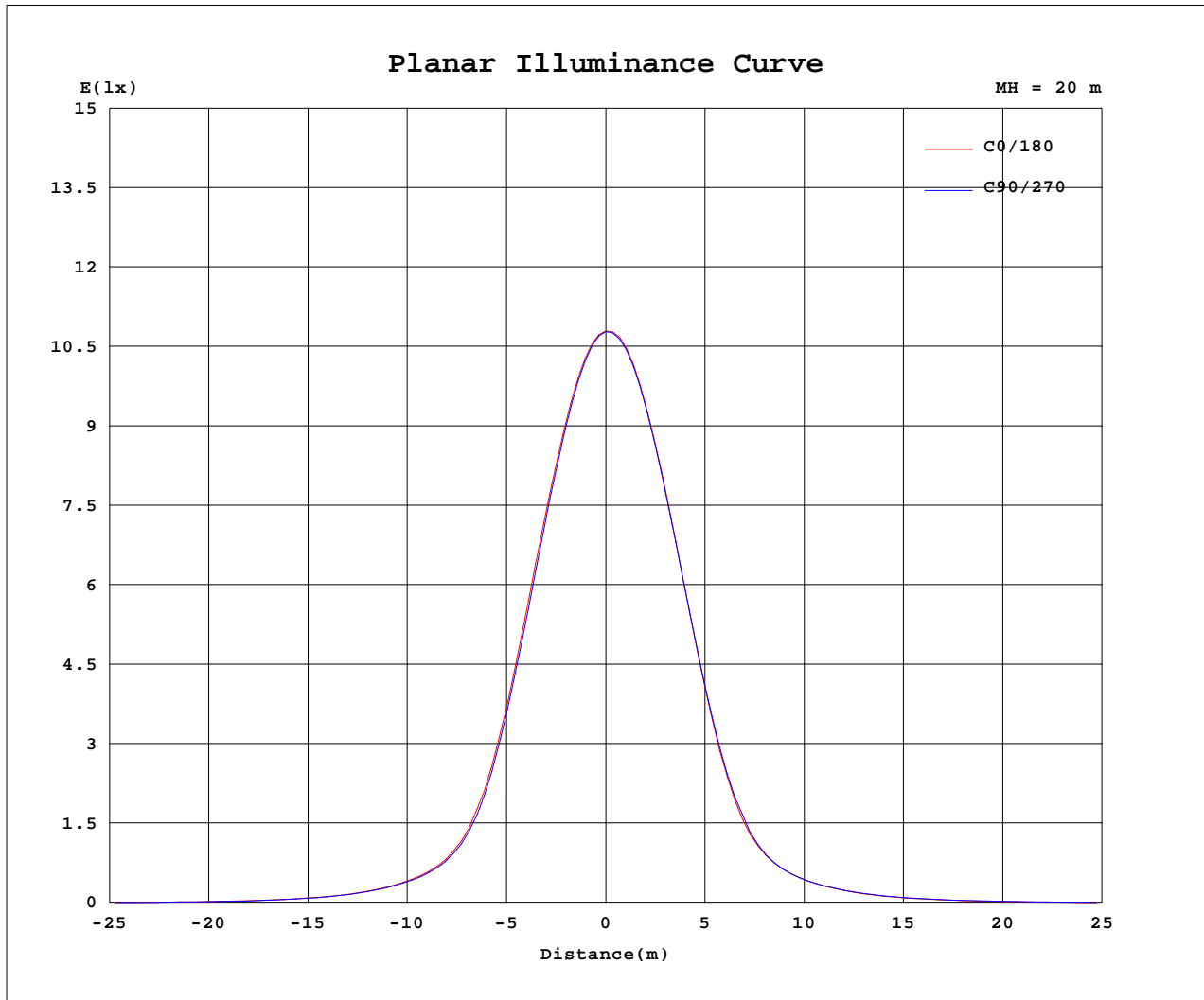
AvgL	cd/m2
L_0~180(65)av	411
L_0~180(75)av	220
L_0~180(85)av	57
L_90~270(65)av	403
L_90~270(75)av	139
L_90~270(85)av	37
L_45(65)av	406
L_45(75)av	182
L_45(85)av	14

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-7-13

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:BXRV-DR-1830G-1000-K-23 Ra:90  
LENS: PM-1096A 24R  
DRIVER: PUP20A-1WMC 450mA  
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: 2023-7-13

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: BXRV-DR-1830G-1000-K-23 Ra: 90  
 LENS: PM-1096A 24R  
 DRIVER: PUP20A-1WMC 450mA  
 30minutes warm-up

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.18V I:0.1448A P:17.313W PF:0.9937 Freq:59.98Hz Lamp Flux:1493.63x1 lm		
NAME: 2118.193-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307120896
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	4314	4314	4314	4314	4314	4314	4314	4314	4314	4314	4314	4314						
5	3821	3815	3787	3794	3822	3889	3945	3975	3988	3936	3873	3826						
10	2680	2655	2610	2622	2676	2773	2851	2889	2923	2850	2755	2693						
15	1385	1369	1313	1337	1389	1474	1534	1572	1620	1556	1496	1411						
20	561	558	537	536	546	587	622	643	670	641	600	563						
25	274	278	268	263	265	279	293	308	313	295	280	271						
30	155	157	150	149	148	156	164	173	176	166	158	153						
35	86.0	85.0	82.1	82.2	83.4	87.5	90.8	94.6	98.7	94.4	90.2	87.4						
40	46.5	45.4	43.0	44.0	45.6	48.5	49.4	51.3	53.8	53.0	50.4	48.3						
45	22.7	21.7	20.3	21.2	22.4	24.2	24.8	25.8	27.4	27.5	26.2	24.3						
50	5.79	5.45	5.32	5.36	5.64	5.89	7.25	9.39	10.7	10.1	8.23	8.23						
55	3.28	3.13	3.14	3.16	3.28	3.49	3.70	3.84	3.95	3.94	3.83	3.53						
60	1.84	1.79	1.85	1.87	1.88	2.05	2.23	2.29	2.29	2.23	2.19	2.02						
65	1.00	0.99	0.98	1.01	1.07	1.15	1.21	1.23	1.22	1.16	1.07	1.01						
70	0.58	0.59	0.61	0.61	0.66	0.70	0.73	0.71	0.66	0.58	0.55	0.54						
75	0.31	0.31	0.27	0.25	0.31	0.39	0.42	0.38	0.26	0.21	0.20	0.26						
80	0.09	0.11	0.05	0.05	0.06	0.16	0.20	0.13	0.05	0.04	0.03	0.08						
85	0.04	0.01	0.02	0.02	0.01	0.01	0.03	0.01	0.01	0.02	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℃  
Operators:zoe  
Test Date:2023-7-13

γ Range: 0 - 180DEG  
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