

Luminaire Photograph



Light Output Ratio:	43.9%	
Luminaire Power:	17.53 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.75	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-10-14

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-1096C 50R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

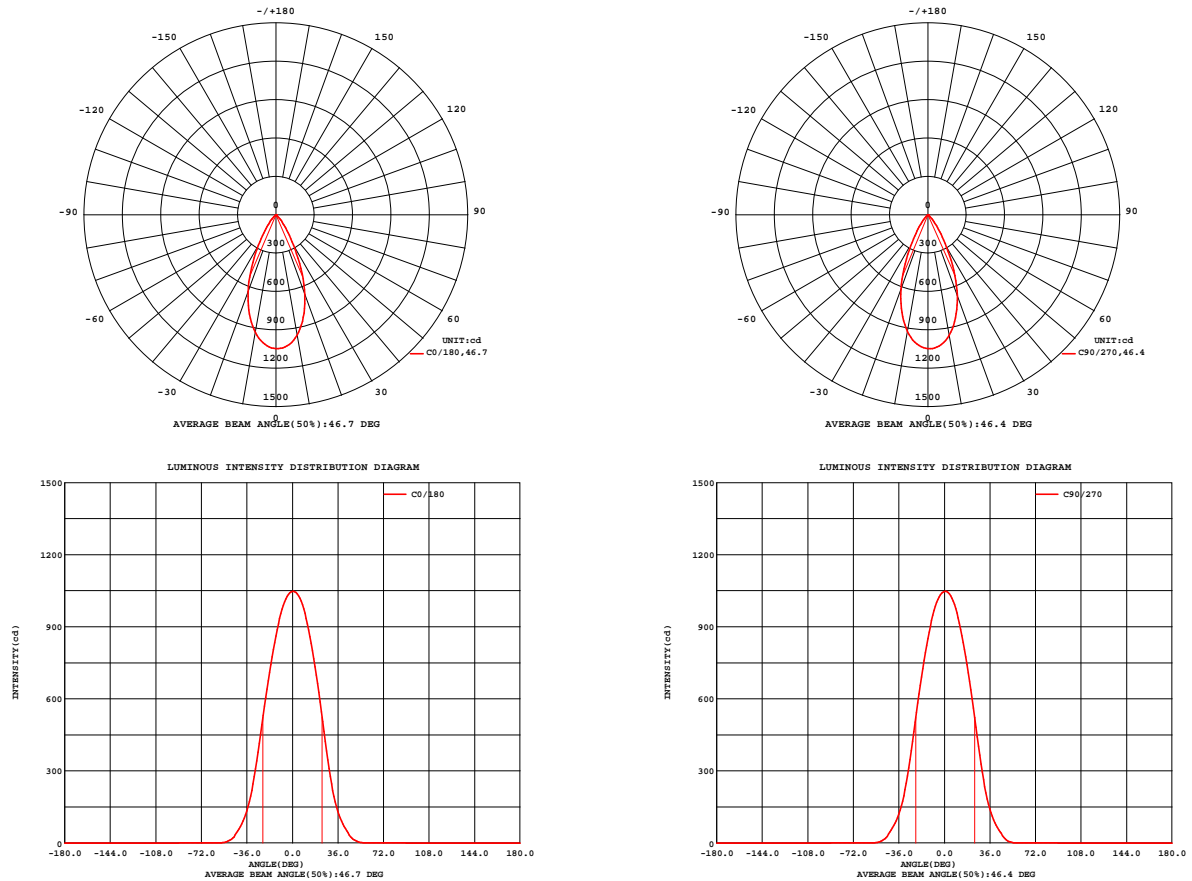


Fig. C0/C180

Fig. C90/C270

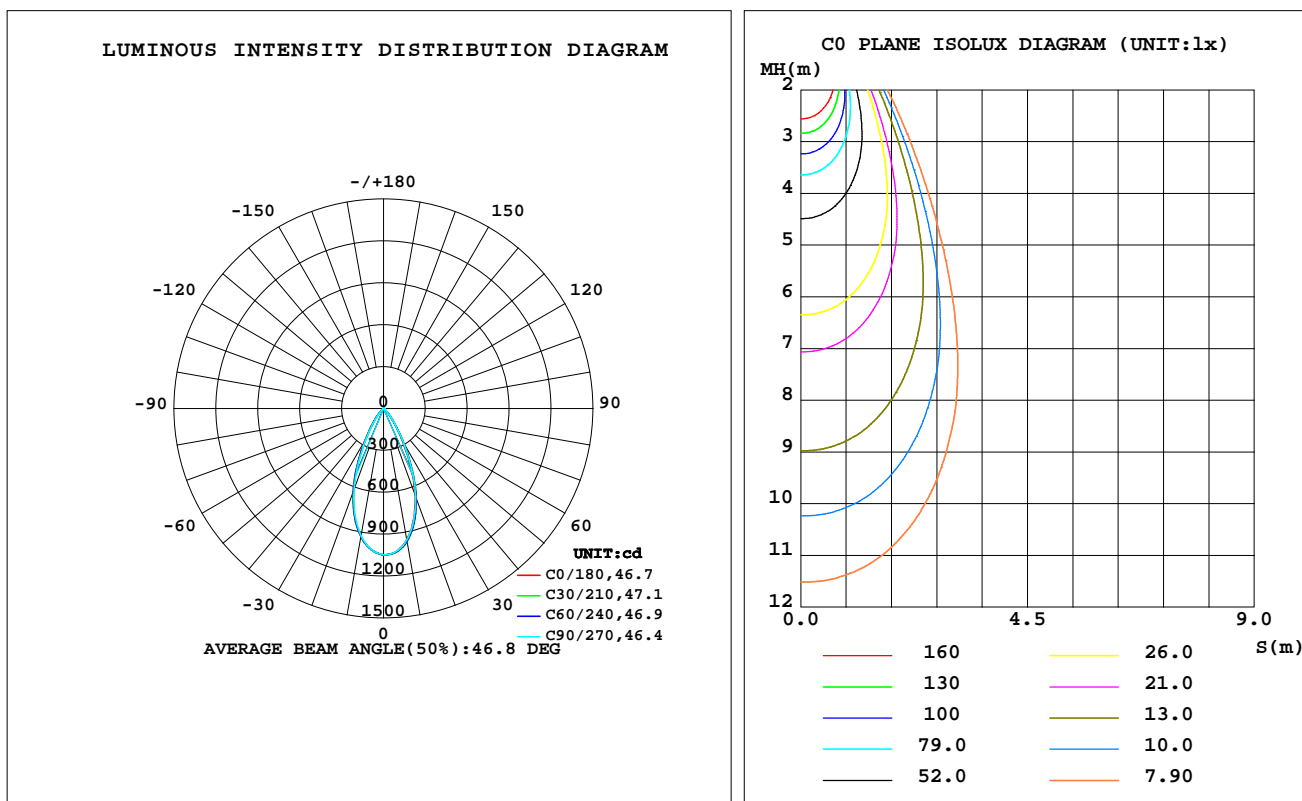
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.11V I:0.1468A P:17.533W PF:0.9933 Freq:59.98Hz Lamp Flux:1493.6x1 lm		
NAME: 2318.137-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310141232
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 37.36 lm/W			
MODEL	Bridgelux	I _{max} (cd)	1048	S/MH(C0/180)	0.73
NOMINAL POWER(W)	17	LOR(%)	43.9	S/MH(C90/270)	0.71
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	655.11	η UP,DN(C0-180)	0.0,22.6
NOMINAL FLUX(lm)	1493.6	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,21.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	η down(%)	43.9	CIBSE SHR MAX	0.75



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30minutes warm-up

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	955.6	967.8	957.7	941.0	934.2	931.2	926.6	934.0	0- 10	95.05	95.05	14.5,6.36
20	663.6	684.5	672.8	650.3	640.7	634.1	620.7	630.2	10- 20	224.8	319.8	48.8,21.4
30	276.9	295.5	294.7	284.6	276.2	262.4	249.1	255.6	20- 30	206.5	526.3	80.3,35.2
40	79.40	84.48	85.03	83.01	79.54	75.27	71.99	74.36	30- 40	97.74	624.1	95.3,41.8
50	9.668	10.49	9.119	10.06	9.599	8.703	7.818	8.142	40- 50	28.25	652.3	99.6,43.7
60	0.6933	0.8333	0.7917	0.4992	0.4323	0.6543	0.8163	0.6630	50- 60	2.292	654.6	99.9,43.8
70	0.2052	0.1634	0.1101	0.1768	0.2343	0.1531	0.1207	0.1528	60- 70	0.4104	655.0	100,43.9
80	0.0525	0.0331	0.0337	0.0398	0.0638	0.0413	0.0357	0.0368	70- 80	0.0860	655.1	100,43.9
90	0	0	0	0	0	0	0	0	80- 90	0.0181	655.1	100,43.9
100	0	0	0	0	0	0	0	0	90-100	0	655.1	100,43.9
110	0	0	0	0	0	0	0	0	100-110	0	655.1	100,43.9
120	0	0	0	0	0	0	0	0	110-120	0	655.1	100,43.9
130	0	0	0	0	0	0	0	0	120-130	0	655.1	100,43.9
140	0	0	0	0	0	0	0	0	130-140	0	655.1	100,43.9
150	0	0	0	0	0	0	0	0	140-150	0	655.1	100,43.9
160	0	0	0	0	0	0	0	0	150-160	0	655.1	100,43.9
170	0	0	0	0	0	0	0	0	160-170	0	655.1	100,43.9
180	0	0	0	0	0	0	0	0	170-180	0	655.1	100,43.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Humidity:65.0%
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DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:120.11V I:0.1468A P:17.533W PF:0.9933 Freq:59.98Hz
Lamp Flux:1493.6x1 lm

NAME: 2318.137-LEA-15-DW

TYPE:

WEIGHT:

SPEC.: 3000K

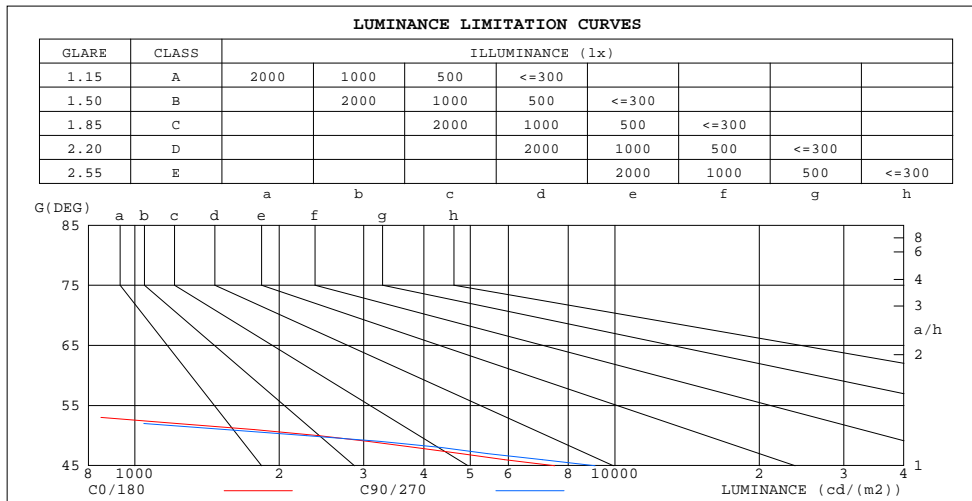
DIM.:

SERIAL No.: 2310141232

MFR.: RISE

SUR.: 0.006217985m2

Shielding Angle:



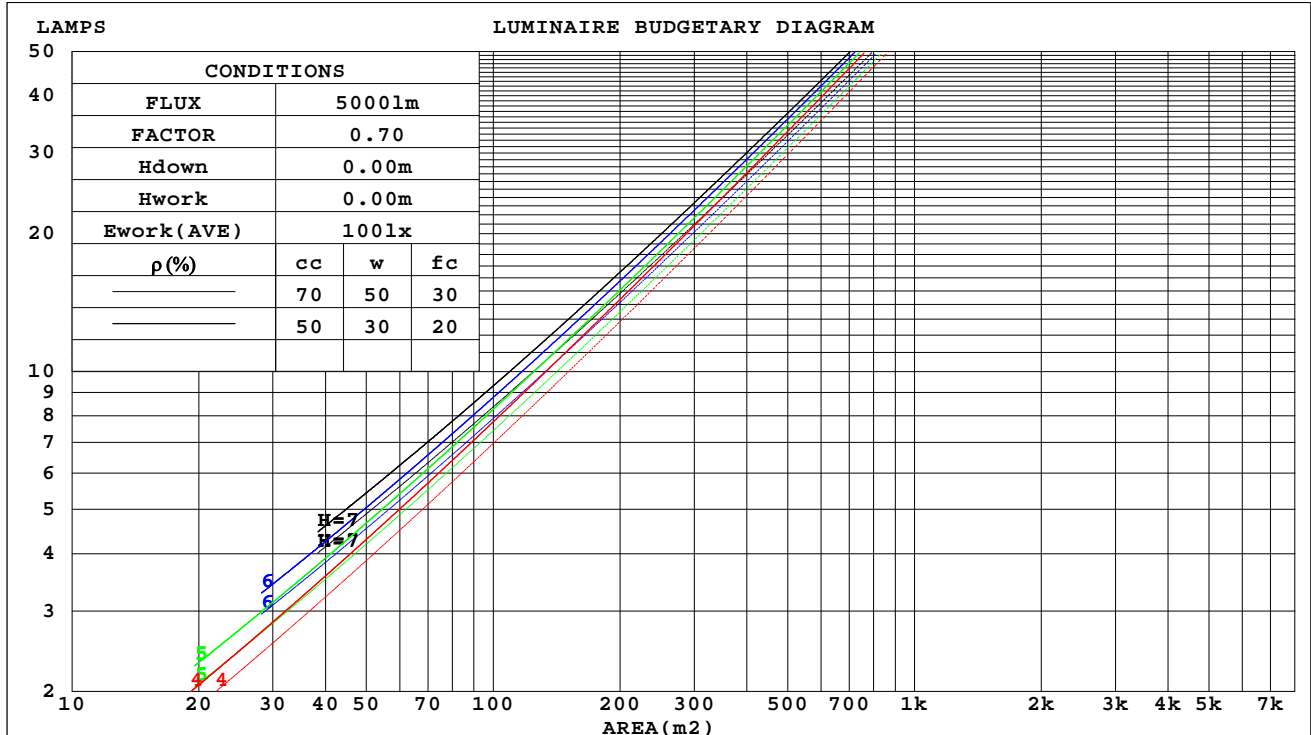
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	.52	.52	.52	.51	.51	.51	.49	.49	.49	.47	.47	.47	.45	.45	.45	.44
1.0	.49	.48	.47	.48	.47	.46	.46	.45	.45	.45	.44	.43	.43	.43	.42	.41
2.0	.46	.44	.43	.45	.44	.42	.44	.42	.41	.42	.41	.41	.41	.40	.40	.39
3.0	.43	.41	.39	.42	.41	.39	.41	.40	.38	.40	.39	.38	.39	.38	.37	.37
4.0	.41	.38	.37	.40	.38	.36	.39	.37	.36	.38	.37	.36	.37	.36	.35	.35
5.0	.38	.36	.34	.38	.36	.34	.37	.35	.34	.36	.35	.33	.36	.34	.33	.33
6.0	.36	.34	.32	.36	.34	.32	.35	.33	.32	.35	.33	.32	.34	.33	.31	.31
7.0	.34	.32	.30	.34	.32	.30	.33	.31	.30	.33	.31	.30	.32	.31	.30	.29
8.0	.33	.30	.29	.32	.30	.28	.32	.30	.28	.31	.30	.28	.31	.29	.28	.28
9.0	.31	.29	.27	.31	.28	.27	.30	.28	.27	.30	.28	.27	.30	.28	.27	.26
10.0	.30	.27	.26	.29	.27	.26	.29	.27	.26	.29	.27	.25	.28	.27	.25	.25



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30minutes warm-up

WEC AND CCEC

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NAME: 2318.137-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310141232
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	.073	.041	.013	.070	.040	.013	.064	.037	.012	.059	.034	.011	.055	.032	.010	
2.0	.069	.038	.012	.067	.037	.011	.062	.035	.011	.058	.032	.010	.054	.031	.010	
3.0	.066	.035	.010	.064	.034	.010	.060	.032	.010	.056	.031	.009	.053	.029	.009	
4.0	.063	.033	.010	.061	.032	.009	.057	.030	.009	.054	.029	.009	.051	.028	.009	
5.0	.060	.030	.009	.058	.030	.009	.055	.029	.008	.052	.028	.008	.050	.027	.008	
6.0	.057	.029	.008	.056	.028	.008	.053	.027	.008	.051	.026	.008	.048	.025	.008	
7.0	.054	.027	.008	.053	.027	.008	.051	.026	.007	.049	.025	.007	.047	.024	.007	
8.0	.052	.025	.007	.051	.025	.007	.049	.025	.007	.047	.024	.007	.045	.023	.007	
9.0	.050	.024	.007	.049	.024	.007	.047	.023	.007	.046	.023	.007	.044	.022	.006	
10.0	.048	.023	.006	.047	.023	.006	.046	.022	.006	.044	.022	.006	.043	.021	.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	.084	.084	.084	.071	.071	.071	.049	.049	.049	.028	.028	.028	.009	.009	.009		
1.0	.075	.069	.064	.064	.059	.055	.044	.041	.038	.025	.024	.022	.008	.008	.007		
2.0	.068	.058	.050	.058	.050	.043	.040	.035	.030	.023	.020	.018	.007	.007	.006		
3.0	.062	.050	.040	.053	.043	.035	.036	.030	.024	.021	.017	.014	.007	.006	.005		
4.0	.057	.043	.033	.049	.037	.028	.034	.026	.020	.020	.015	.012	.006	.005	.004		
5.0	.053	.038	.027	.046	.033	.023	.032	.023	.016	.018	.014	.010	.006	.004	.003		
6.0	.050	.034	.022	.043	.029	.020	.030	.021	.014	.017	.012	.008	.006	.004	.003		
7.0	.047	.031	.019	.040	.026	.017	.028	.019	.012	.016	.011	.007	.005	.004	.002		
8.0	.044	.028	.016	.038	.024	.014	.027	.017	.010	.015	.010	.006	.005	.003	.002		
9.0	.042	.025	.014	.036	.022	.012	.025	.016	.009	.015	.009	.005	.005	.003	.002		
10.0	.040	.024	.012	.035	.020	.011	.024	.014	.008	.014	.008	.005	.005	.003	.002		

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2310141232		
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	13.3	14.2	13.5	14.3	14.5	13.5	14.4	13.7	14.5	14.7
3H	13.1	13.9	13.4	14.1	14.3	13.3	14.1	13.6	14.3	14.5
4H	13.0	13.8	13.3	14.0	14.2	13.3	14.0	13.5	14.2	14.5
6H	13.0	13.7	13.3	13.9	14.2	13.2	13.9	13.5	14.1	14.4
8H	12.9	13.6	13.2	13.8	14.1	13.1	13.8	13.4	14.1	14.3
12H	12.9	13.5	13.2	13.8	14.1	13.1	13.7	13.4	14.0	14.3
4H 2H	13.0	13.8	13.3	14.0	14.2	13.3	14.0	13.5	14.2	14.5
3H	12.9	13.5	13.2	13.8	14.1	13.1	13.7	13.4	14.0	14.3
4H	12.8	13.4	13.1	13.7	14.0	13.0	13.6	13.3	13.9	14.2
6H	12.7	13.2	13.1	13.5	13.9	12.9	13.4	13.3	13.7	14.1
8H	12.6	13.1	13.0	13.5	13.8	12.8	13.3	13.2	13.7	14.0
12H	12.6	13.0	13.0	13.4	13.8	12.8	13.2	13.2	13.6	14.0
8H 4H	12.6	13.1	13.0	13.5	13.8	12.8	13.3	13.2	13.7	14.0
6H	12.5	12.9	12.9	13.3	13.7	12.7	13.1	13.2	13.5	13.9
8H	12.5	12.8	12.9	13.2	13.7	12.7	13.0	13.1	13.4	13.9
12H	12.4	12.7	12.9	13.2	13.6	12.6	12.9	13.1	13.4	13.8
12H 4H	12.6	13.0	13.0	13.4	13.8	12.8	13.2	13.2	13.6	14.0
6H	12.5	12.8	12.9	13.2	13.7	12.7	13.0	13.1	13.4	13.9
8H	12.4	12.7	12.9	13.2	13.6	12.6	12.9	13.1	13.4	13.8
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.9 / -21.4					+ 3.2 / -21.8				
1.5H	+ 5.2 / -17.2					+ 5.4 / -18.6				
2.0H	+ 7.7 / -14.8					+ 8.4 / -14.8				

CIE Pub.117, 1494 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.4)
Area: 0.00621798 m2

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UTILIZATION FACTORS TABLE

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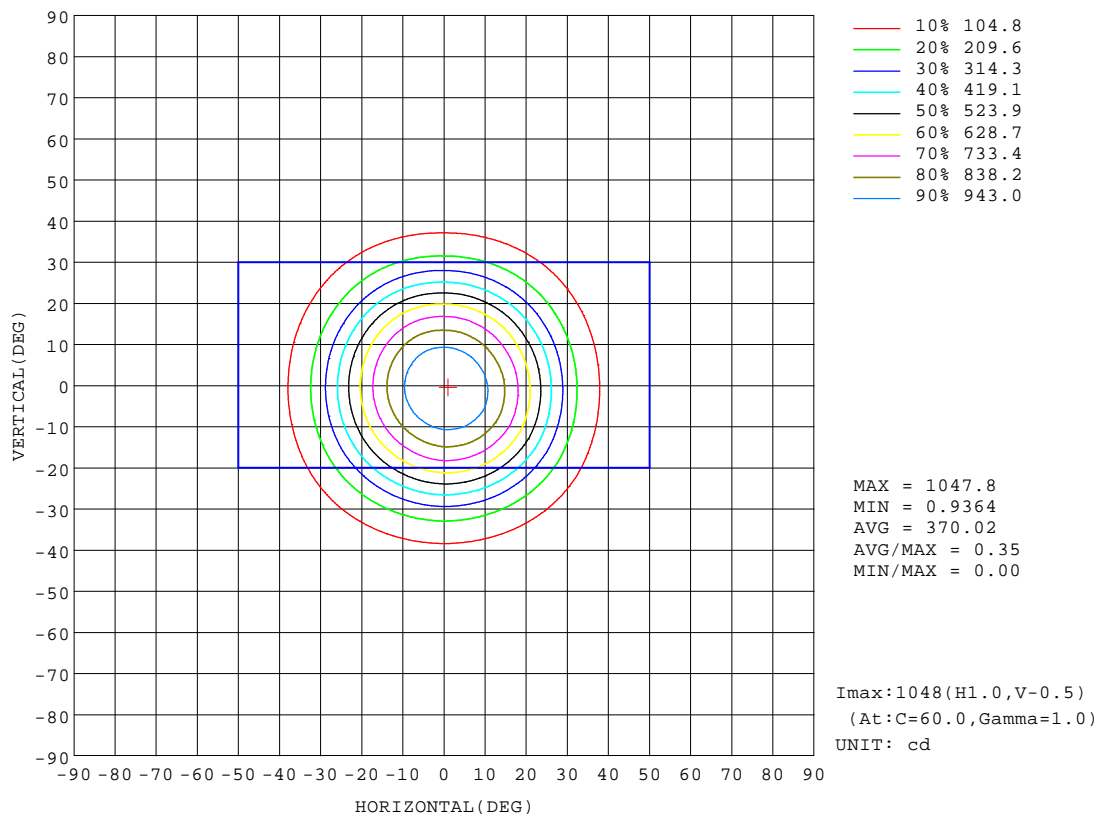
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	39	36	35	39	36	35	38	36	34	33
0.80	42	40	38	42	39	38	41	39	38	36
1.00	44	42	40	44	41	40	43	41	40	38
1.25	46	43	42	45	43	42	44	43	42	40
1.50	47	45	43	46	44	43	45	44	43	41
2.00	48	46	45	47	46	44	46	45	44	42
2.50	49	47	46	48	46	45	47	45	45	42
3.00	49	48	47	48	47	46	47	46	45	42
4.00	50	49	48	49	48	47	48	47	46	43
5.00	51	50	49	50	49	48	48	47	47	44
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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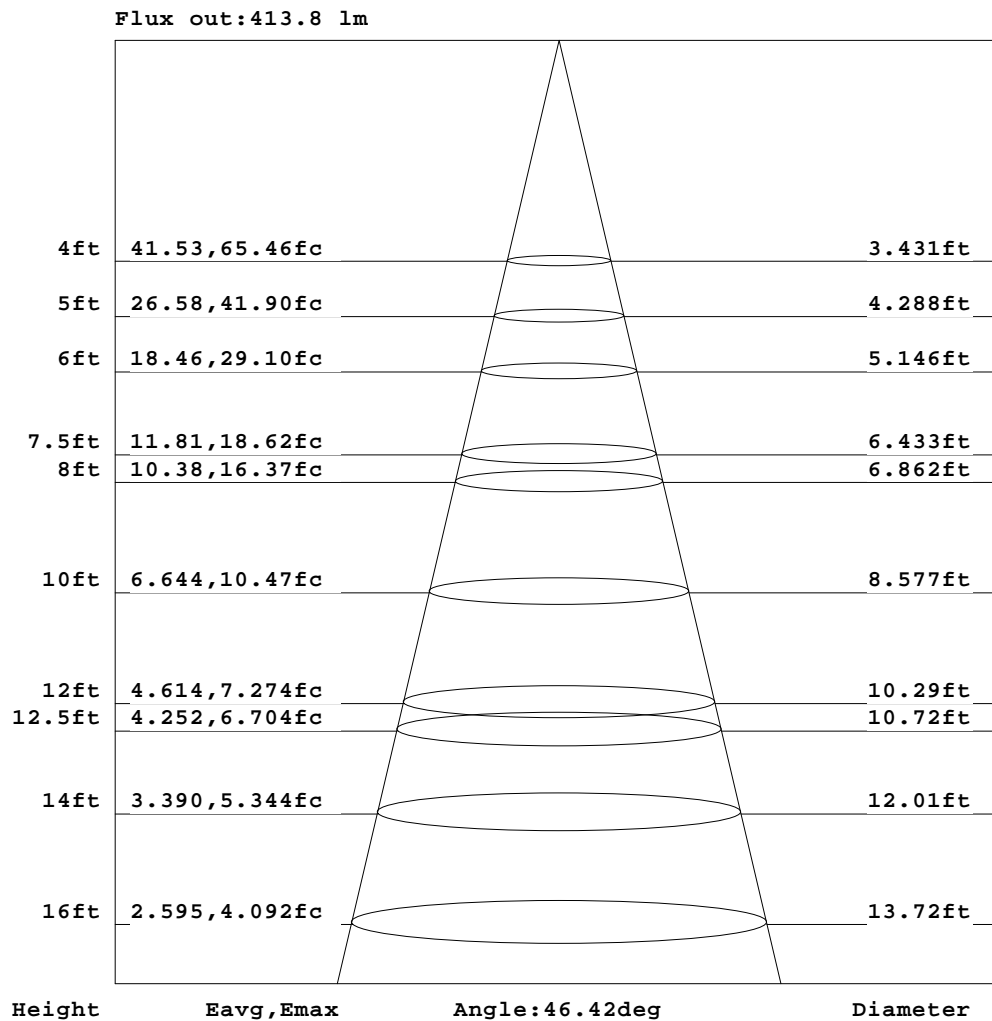


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30minutes warm-up

AAI Figure

Test:U:120.11V I:0.1468A P:17.533W PF:0.9933 Freq:59.98Hz Lamp Flux:1493.6x1 lm		
NAME: 2318.137-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310141232
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:



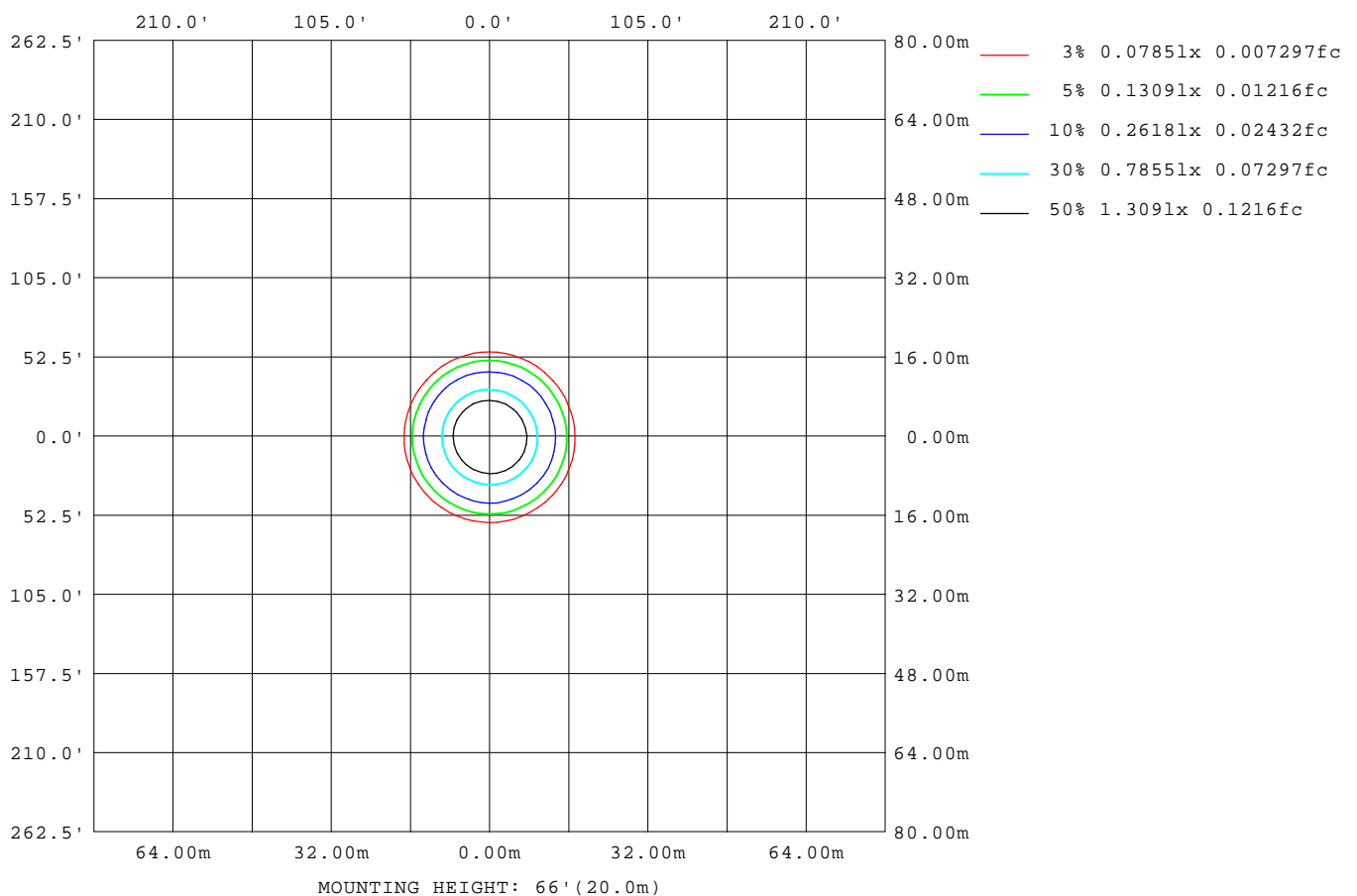
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:zoe
Test Date:2023-10-14

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-1096C 50R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:120.11V I:0.1468A P:17.533W PF:0.9933 Freq:59.98Hz Lamp Flux:1493.6x1 lm		
NAME: 2318.137-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310141232
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:2023-10-14

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-1096C 50R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

LED Avg.L Report

Test:U:120.11V I:0.1468A P:17.533W PF:0.9933 Freq:59.98Hz Lamp Flux:1493.6x1 lm		
NAME: 2318.137-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310141232
MFR.: RISE	SUR.: 0.006217985m2	Shielding Angle:

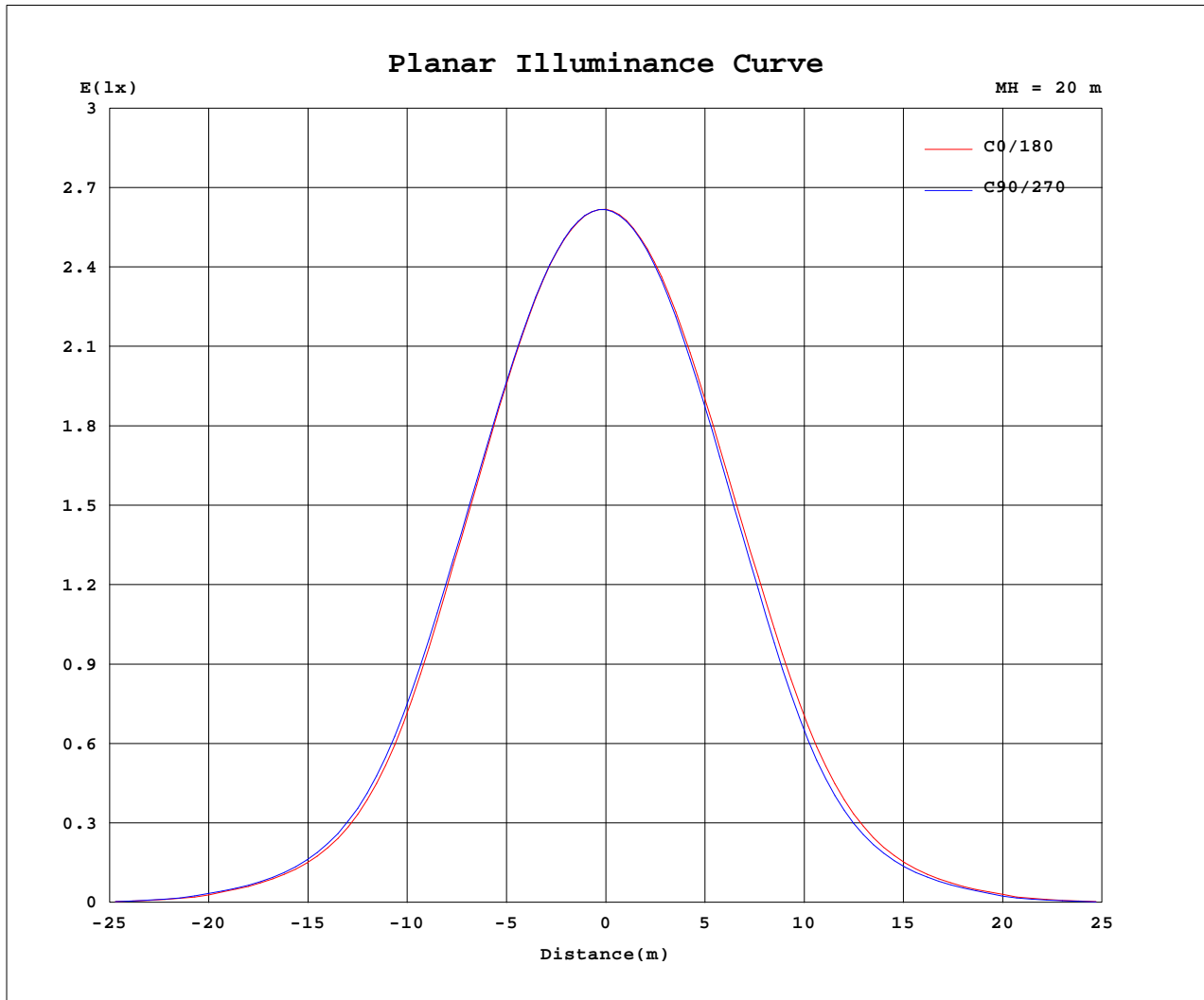
AvgL	cd/m2
L_0~180(65)av	163
L_0~180(75)av	57
L_0~180(85)av	53
L_90~270(65)av	147
L_90~270(75)av	41
L_90~270(85)av	24
L_45(65)av	159
L_45(75)av	44
L_45(85)av	17

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-10-14

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-1096C 50R
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: 2023-10-14

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-1096C 50R
 DRIVER: PUP20A-1WMC 450mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.11V I:0.1468A P:17.533W PF:0.9933 Freq:59.98Hz Lamp Flux:1493.6x1 lm		
NAME: 2318.137-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310141232
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	1047	1047	1047	1047	1047	1047	1047	1047	1047	1047	1047	1047						
5	1028	1034	1032	1029	1023	1018	1015	1013	1014	1014	1016	1020						
10	956	969	967	958	944	938	934	931	932	927	930	939						
15	830	850	847	835	817	809	805	801	800	792	795	807						
20	664	686	683	673	655	646	641	636	633	621	623	637						
25	464	488	487	482	468	461	453	443	437	423	426	438						
30	277	295	296	295	287	283	276	266	259	249	252	259						
35	151	161	162	162	158	156	152	146	142	136	139	142						
40	79.4	84.1	84.9	85.0	83.7	82.4	79.5	75.9	74.6	72.0	73.6	75.1						
45	33.0	37.6	38.8	40.0	39.2	38.0	35.0	30.1	28.4	27.3	27.9	28.9						
50	9.67	11.0	9.95	9.12	9.54	10.6	9.60	9.02	8.38	7.82	7.91	8.38						
55	1.60	2.04	1.84	1.33	1.36	1.87	1.51	1.55	1.47	1.28	1.21	1.35						
60	0.69	0.75	0.92	0.79	0.55	0.45	0.43	0.53	0.78	0.82	0.68	0.65						
65	0.49	0.51	0.48	0.36	0.33	0.37	0.37	0.38	0.42	0.41	0.40	0.46						
70	0.21	0.21	0.12	0.11	0.13	0.23	0.23	0.17	0.14	0.12	0.12	0.18						
75	0.09	0.07	0.06	0.06	0.07	0.08	0.10	0.08	0.07	0.07	0.07	0.08						
80	0.05	0.04	0.03	0.03	0.03	0.05	0.06	0.05	0.04	0.04	0.03	0.04						
85	0.03	0.01	0.01	0.01	0.01	0.01	0.03	0.01	0.01	0.01	0.01	0.01						
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
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