

Luminaire Photograph



Light Output Ratio:	69.7%	
Luminaire Power:	15.87 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.85	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-11-29

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-30G1000-A-83 Ra: 90
LENS: PM-1082C 50R
DRIVER: PUP20A-1WMC 400mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

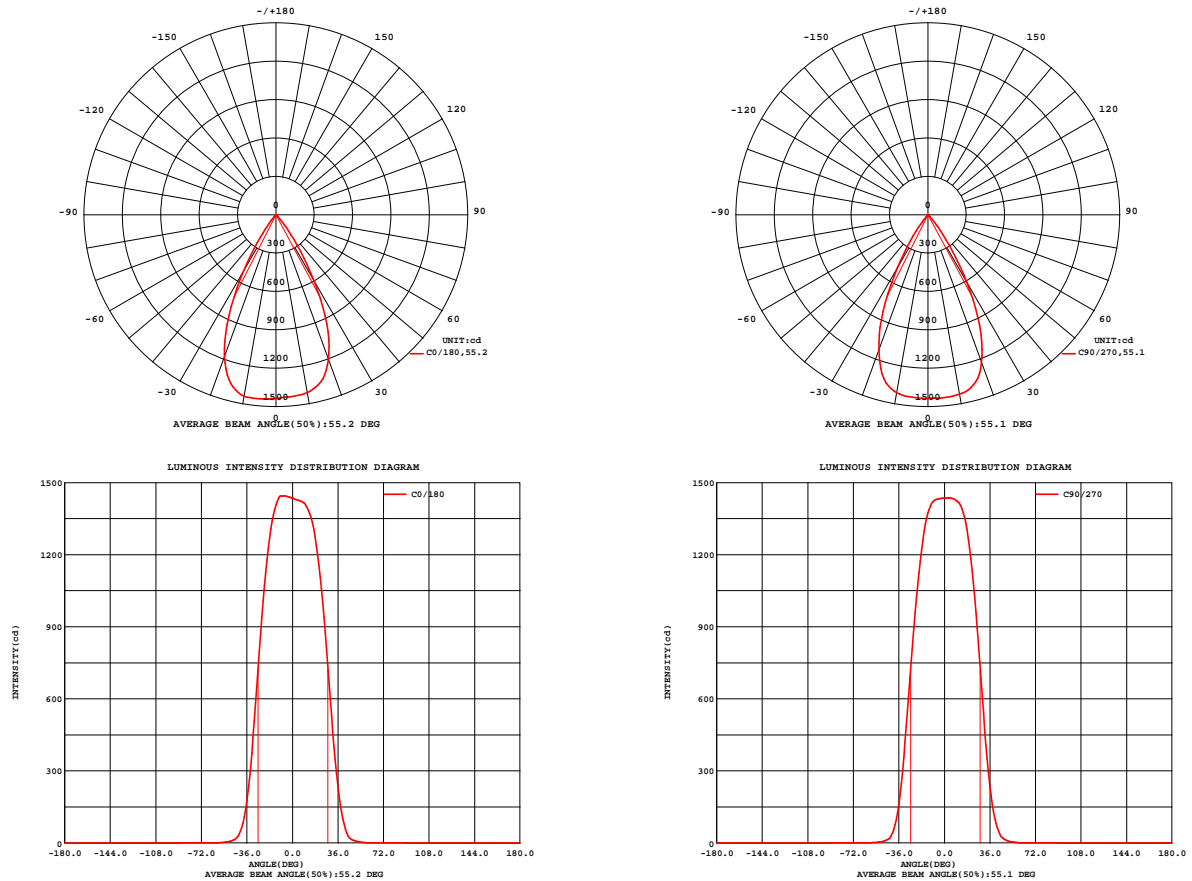


Fig. C0/C180

Fig. C90/C270

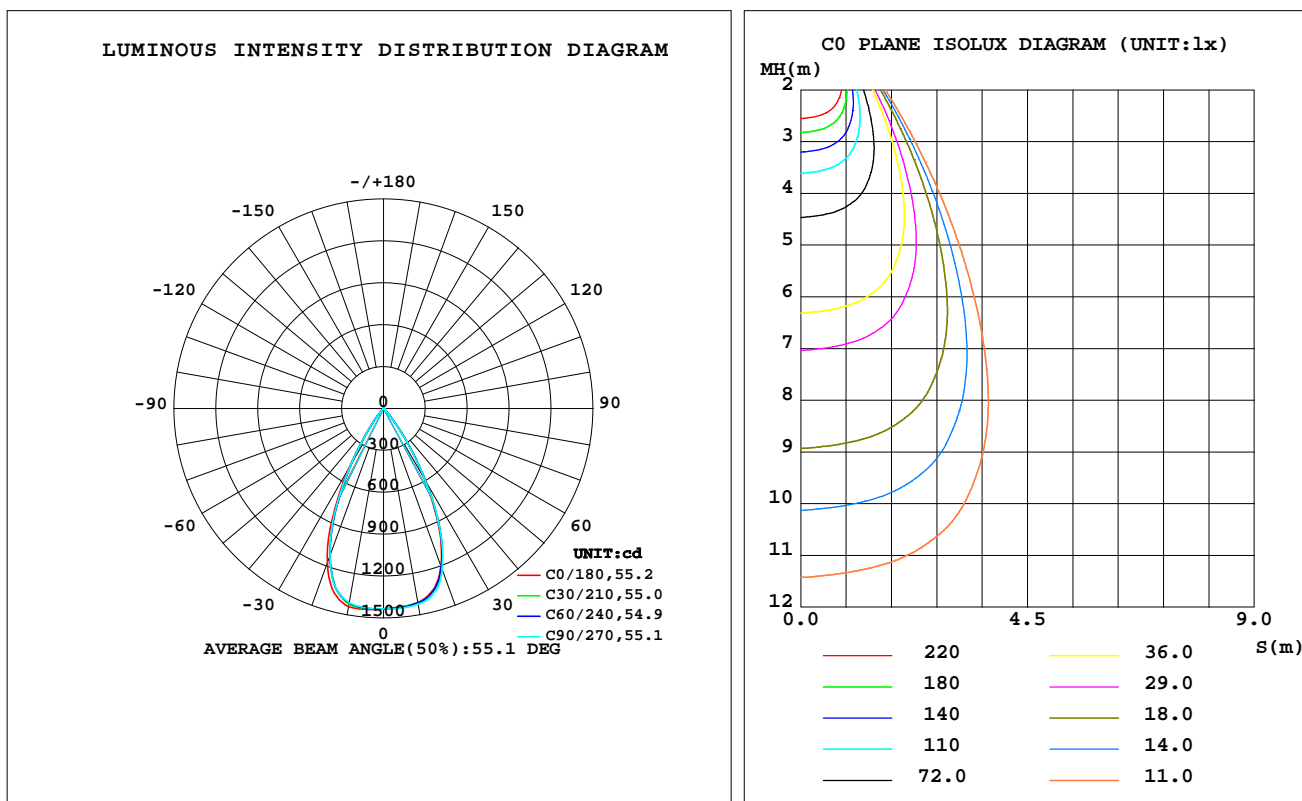
C Range: 0 - 360DEG
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Test Speed: HIGH
Temperature: 25.3 °C
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.12V I:0.1330A P:15.872W PF:0.9920 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.110-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311291400
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 69.38 lm/W
MODEL	Bridgelux	I _{max} (cd)	1446	S/MH(C0/180)		0.80
NOMINAL POWER(W)	16	LOR(%)	69.7	S/MH(C90/270)		0.79
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1101.2	η UP,DN(C0-180)		0.0,36.6
NOMINAL FLUX(lm)	1579.4	CIE CLASS	DIRECT	η UP,DN(C180-360)		0.0,33.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM		0.75
TEST VOLTAGE(V)	120	η down(%)	69.7	CIBSE SHR MAX		0.85



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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	1411	1413	1423	1440	1441	1420	1413	1407	0- 10	136.5	136.5	12.4,8.64
20	1200	1210	1227	1225	1178	1126	1124	1157	10- 20	374.9	511.4	46.4,32.4
30	595.7	616.2	608.6	565.8	507.2	471.8	484.4	533.3	20- 30	401.1	912.5	82.9,57.8
40	99.65	109.0	102.0	83.59	64.30	54.66	54.98	74.39	30- 40	164.4	1077	97.8,68.2
50	8.000	9.511	9.180	7.603	6.186	5.234	5.093	6.041	40- 50	20.95	1098	99.7,69.5
60	1.048	1.101	1.093	1.001	0.8521	0.7922	0.8243	0.9049	50- 60	2.734	1101	99.9,69.7
70	0.2137	0.2145	0.2105	0.1856	0.1612	0.1521	0.1632	0.1821	60- 70	0.4686	1101	100,69.7
80	0.0561	0.0461	0.0434	0.0384	0.0409	0.0396	0.0422	0.0388	70- 80	0.0907	1101	100,69.7
90	0	0	0	0	0	0	0	0	80- 90	0.0301	1101	100,69.7
100	0	0	0	0	0	0	0	0	90-100	0	1101	100,69.7
110	0	0	0	0	0	0	0	0	100-110	0	1101	100,69.7
120	0	0	0	0	0	0	0	0	110-120	0	1101	100,69.7
130	0	0	0	0	0	0	0	0	120-130	0	1101	100,69.7
140	0	0	0	0	0	0	0	0	130-140	0	1101	100,69.7
150	0	0	0	0	0	0	0	0	140-150	0	1101	100,69.7
160	0	0	0	0	0	0	0	0	150-160	0	1101	100,69.7
170	0	0	0	0	0	0	0	0	160-170	0	1101	100,69.7
180	0	0	0	0	0	0	0	0	170-180	0	1101	100,69.7
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Test Date:2023-11-29

γ 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]
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LENS:PM-1082C 50R
DRIVER:PUP20A-1WMC 400mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:120.12V I:0.1330A P:15.872W PF:0.9920 Freq:59.98Hz
Lamp Flux:1579.4x1 lm

NAME: 2318.110-LEA-14(400mA)

TYPE:

WEIGHT:

SPEC.: 3000K

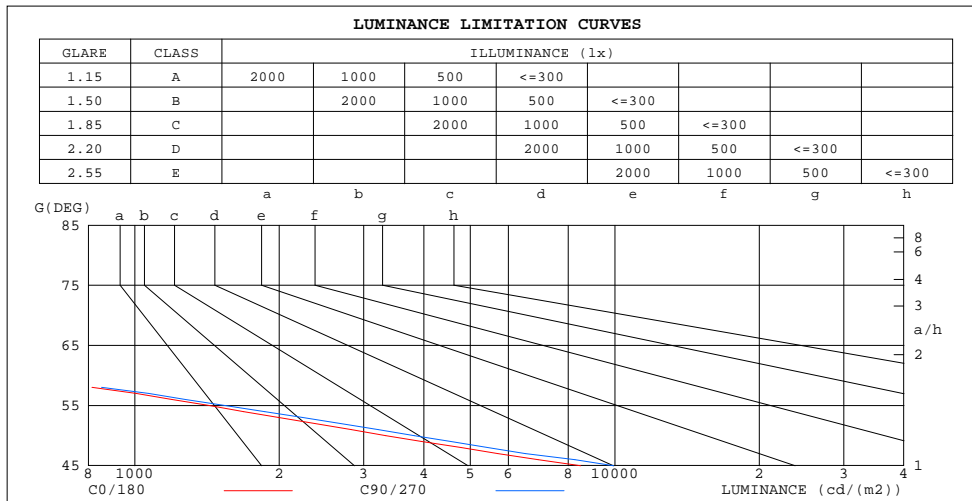
DIM.:

SERIAL No.: 2311291400

MFR.: RISE

SUR.: 0.003737385m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	117	110
80	87	67
75	93	86
70	167	165
65	308	304
60	561	585
55	1432	1545
50	3331	3820
45	8490	9939

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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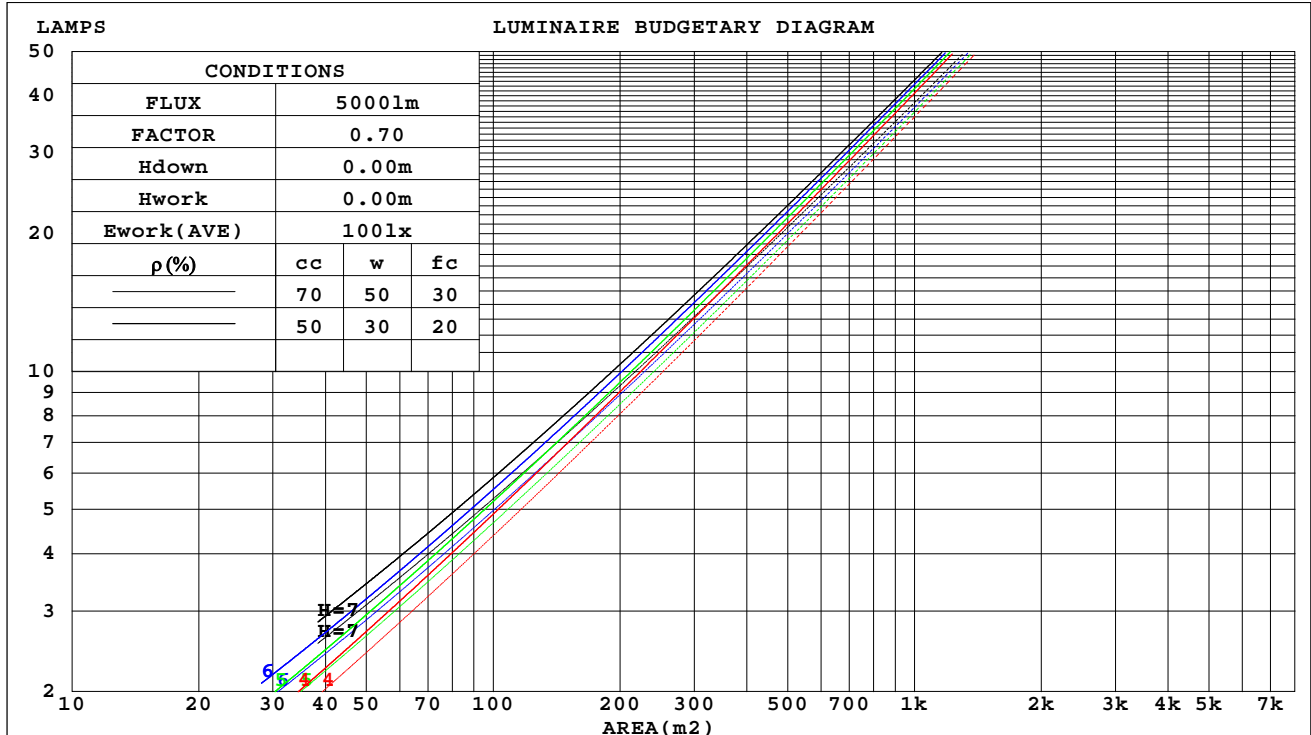
SERIAL No.: 2311291400

MFR.: RISE

SUR.: 0.003737385m2

Shielding Angle:

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	.83	.83	.83	.81	.81	.81	.77	.77	.77	.74	.74	.74	.71	.71	.71	.70
1.0	.78	.76	.75	.76	.75	.73	.73	.72	.71	.71	.70	.69	.68	.68	.67	.66
2.0	.73	.70	.68	.72	.69	.67	.69	.67	.66	.67	.66	.64	.65	.64	.63	.62
3.0	.68	.65	.63	.67	.65	.62	.66	.63	.61	.64	.62	.60	.62	.61	.59	.58
4.0	.64	.61	.58	.64	.60	.58	.62	.59	.57	.61	.58	.57	.60	.58	.56	.55
5.0	.61	.57	.54	.60	.57	.54	.59	.56	.54	.58	.55	.53	.57	.55	.53	.52
6.0	.57	.54	.51	.57	.53	.51	.56	.53	.50	.55	.52	.50	.54	.52	.50	.49
7.0	.54	.51	.48	.54	.50	.48	.53	.50	.48	.52	.49	.47	.52	.49	.47	.46
8.0	.52	.48	.45	.51	.48	.45	.51	.47	.45	.50	.47	.45	.49	.47	.45	.44
9.0	.49	.45	.43	.49	.45	.43	.48	.45	.42	.48	.45	.42	.47	.44	.42	.41
10.0	.47	.43	.40	.46	.43	.40	.46	.43	.40	.45	.42	.40	.45	.42	.40	.39



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WEC AND CCEC

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NAME: 2318.110-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311291400
MFR.: RISE	SUR.: 0.003737385m2	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	.115	.066	.021	.111	.063	.020	.102	.059	.019	.094	.054	.017	.087	.050	.016	
2.0	.110	.060	.018	.106	.058	.018	.099	.055	.017	.092	.052	.016	.086	.048	.015	
3.0	.104	.056	.017	.101	.054	.016	.095	.051	.016	.089	.049	.015	.084	.046	.014	
4.0	.099	.052	.015	.096	.050	.015	.091	.048	.014	.086	.046	.014	.082	.044	.014	
5.0	.095	.048	.014	.092	.047	.014	.088	.046	.013	.083	.044	.013	.079	.042	.013	
6.0	.091	.045	.013	.088	.045	.013	.084	.043	.013	.081	.042	.012	.077	.041	.012	
7.0	.087	.043	.012	.085	.042	.012	.081	.041	.012	.078	.040	.012	.075	.039	.011	
8.0	.083	.041	.011	.082	.040	.011	.078	.039	.011	.075	.038	.011	.073	.037	.011	
9.0	.080	.039	.011	.078	.038	.011	.076	.037	.011	.073	.037	.010	.070	.036	.010	
10.0	.077	.037	.010	.076	.037	.010	.073	.036	.010	.071	.035	.010	.068	.034	.010	

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	.133	.133	.133	.114	.114	.114	.077	.077	.077	.045	.045	.045	.014	.014	.014		
1.0	.119	.110	.102	.102	.094	.087	.070	.065	.060	.040	.037	.035	.013	.012	.011		
2.0	.108	.092	.080	.092	.080	.069	.063	.055	.048	.036	.032	.028	.012	.010	.009		
3.0	.099	.079	.064	.084	.068	.055	.058	.047	.039	.033	.028	.023	.011	.009	.007		
4.0	.091	.069	.052	.078	.059	.045	.054	.041	.032	.031	.024	.019	.010	.008	.006		
5.0	.085	.061	.043	.073	.052	.037	.050	.037	.026	.029	.021	.016	.009	.007	.005		
6.0	.079	.054	.036	.068	.047	.031	.047	.033	.022	.027	.019	.013	.009	.006	.004		
7.0	.075	.049	.030	.064	.042	.026	.044	.030	.019	.026	.017	.011	.008	.006	.004		
8.0	.071	.044	.026	.061	.038	.023	.042	.027	.016	.025	.016	.010	.008	.005	.003		
9.0	.067	.041	.022	.058	.035	.020	.040	.025	.014	.023	.015	.008	.008	.005	.003		
10.0	.064	.037	.020	.055	.033	.017	.038	.023	.012	.022	.014	.007	.007	.004	.002		

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2311291400		
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	17.0	17.9	17.3	18.1	18.2	17.0	17.9	17.2	18.0	18.2
3H	16.9	17.7	17.1	17.9	18.1	16.8	17.6	17.1	17.8	18.0
4H	16.8	17.5	17.1	17.8	18.0	16.7	17.5	17.0	17.7	17.9
6H	16.7	17.4	17.0	17.6	17.9	16.7	17.4	16.9	17.6	17.8
8H	16.7	17.3	17.0	17.6	17.8	16.6	17.3	16.9	17.5	17.8
12H	16.6	17.3	16.9	17.5	17.8	16.6	17.2	16.9	17.5	17.8
4H 2H	16.8	17.5	17.1	17.8	18.0	16.7	17.5	17.0	17.7	17.9
3H	16.6	17.3	16.9	17.5	17.8	16.6	17.2	16.9	17.5	17.8
4H	16.5	17.1	16.9	17.4	17.7	16.5	17.1	16.8	17.4	17.7
6H	16.4	16.9	16.8	17.3	17.6	16.4	16.9	16.7	17.2	17.6
8H	16.4	16.9	16.8	17.2	17.6	16.3	16.8	16.7	17.2	17.5
12H	16.3	16.8	16.7	17.1	17.5	16.3	16.7	16.7	17.1	17.5
8H 4H	16.4	16.9	16.8	17.2	17.6	16.3	16.8	16.7	17.2	17.5
6H	16.3	16.7	16.7	17.1	17.5	16.2	16.6	16.6	17.0	17.4
8H	16.2	16.6	16.7	17.0	17.4	16.2	16.5	16.6	16.9	17.4
12H	16.2	16.5	16.6	16.9	17.4	16.1	16.4	16.6	16.8	17.3
12H 4H	16.3	16.8	16.7	17.1	17.5	16.3	16.7	16.7	17.1	17.5
6H	16.2	16.6	16.7	17.0	17.4	16.2	16.5	16.6	16.9	17.4
8H	16.2	16.5	16.6	16.9	17.4	16.1	16.4	16.6	16.8	17.3
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 4.0 / -20.2					+ 4.1 / -19.9				
1.5H	+ 6.6 / -15.8					+ 6.7 / -15.9				
2.0H	+ 6.7 / -12.1					+ 7.1 / -12.9				

CIE Pub.117, 1579 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.6)
Area: 0.00373738 m2

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UTILIZATION FACTORS TABLE

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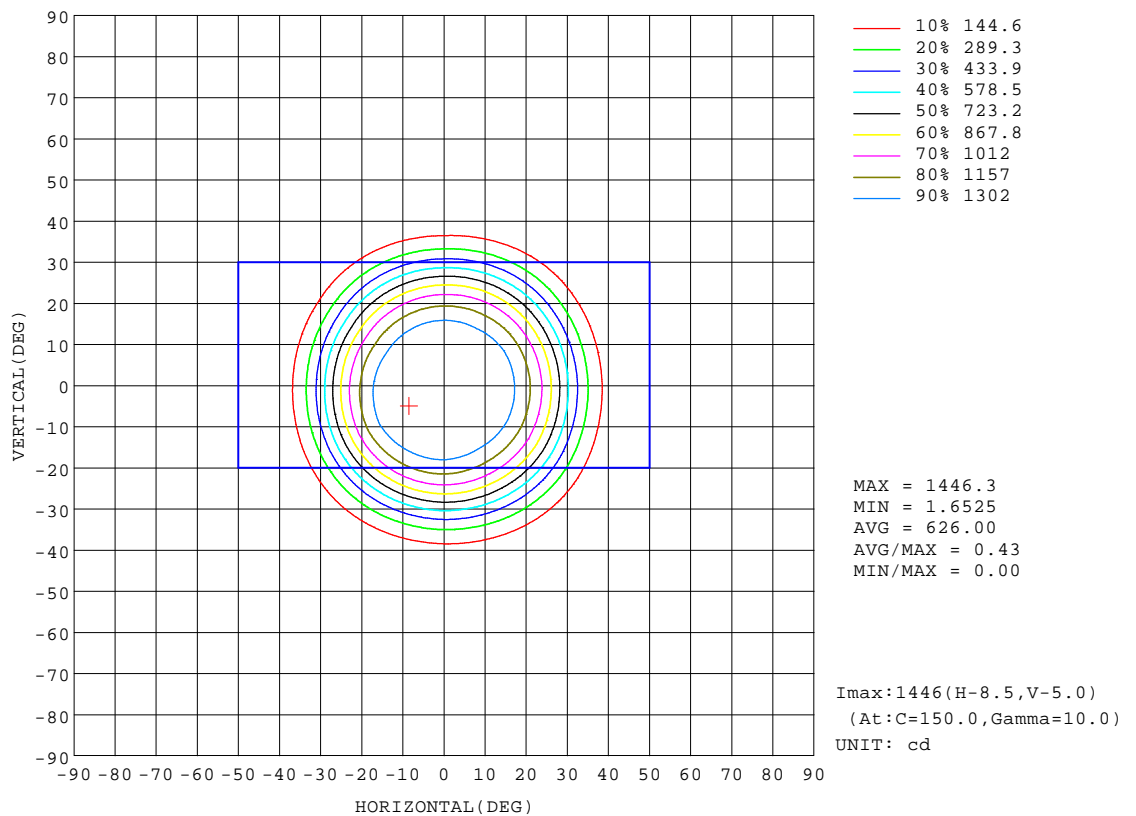
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	63	59	56	63	59	56	62	58	56	54
0.80	68	64	62	67	64	62	67	63	61	59
1.00	71	67	65	70	67	65	69	66	64	62
1.25	73	70	68	72	69	67	71	69	67	64
1.50	75	72	70	74	71	69	73	70	69	66
2.00	76	74	72	75	73	71	74	72	70	67
2.50	77	75	73	76	74	73	74	73	71	67
3.00	78	76	75	77	75	74	75	73	72	68
4.00	80	78	77	78	77	76	76	75	74	69
5.00	81	79	78	79	78	77	76	76	75	70
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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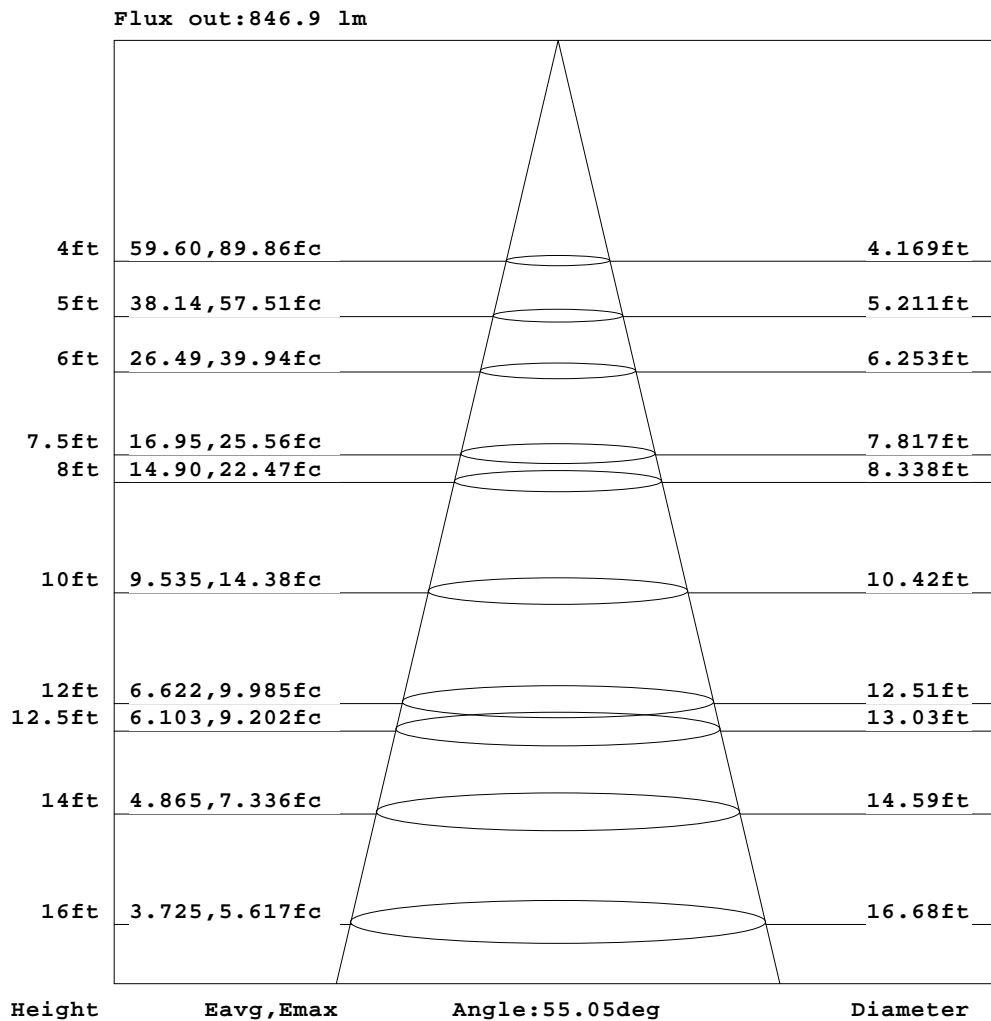


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Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS:PM-1082C 50R
DRIVER:PUP20A-1WMC 400mA
30minutes warm-up

AAI Figure

Test:U:120.12V I:0.1330A P:15.872W PF:0.9920 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.110-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311291400
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:



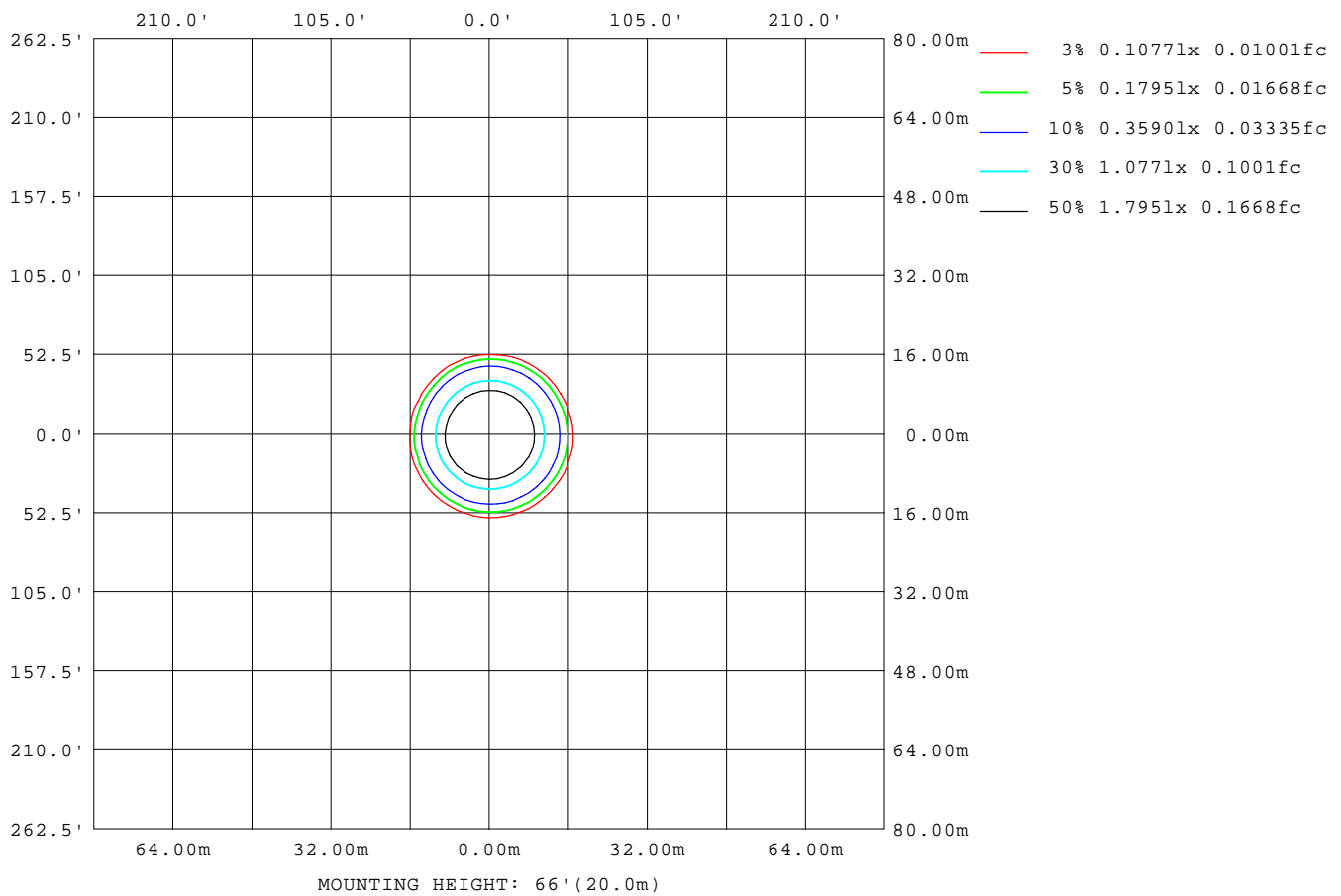
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: zoe
Test Date: 2023-11-29

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-30G1000-A-83 Ra: 90
LENS: PM-1082C 50R
DRIVER: PUP20A-1WMC 400mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:120.12V I:0.1330A P:15.872W PF:0.9920 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.110-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311291400
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:2023-11-29

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-30G1000-A-83 Ra:90
LENS:PM-1082C 50R
DRIVER:PUP20A-1WMC 400mA
30minutes warm-up

LED Avg.L Report

Test:U:120.12V I:0.1330A P:15.872W PF:0.9920 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.110-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311291400
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

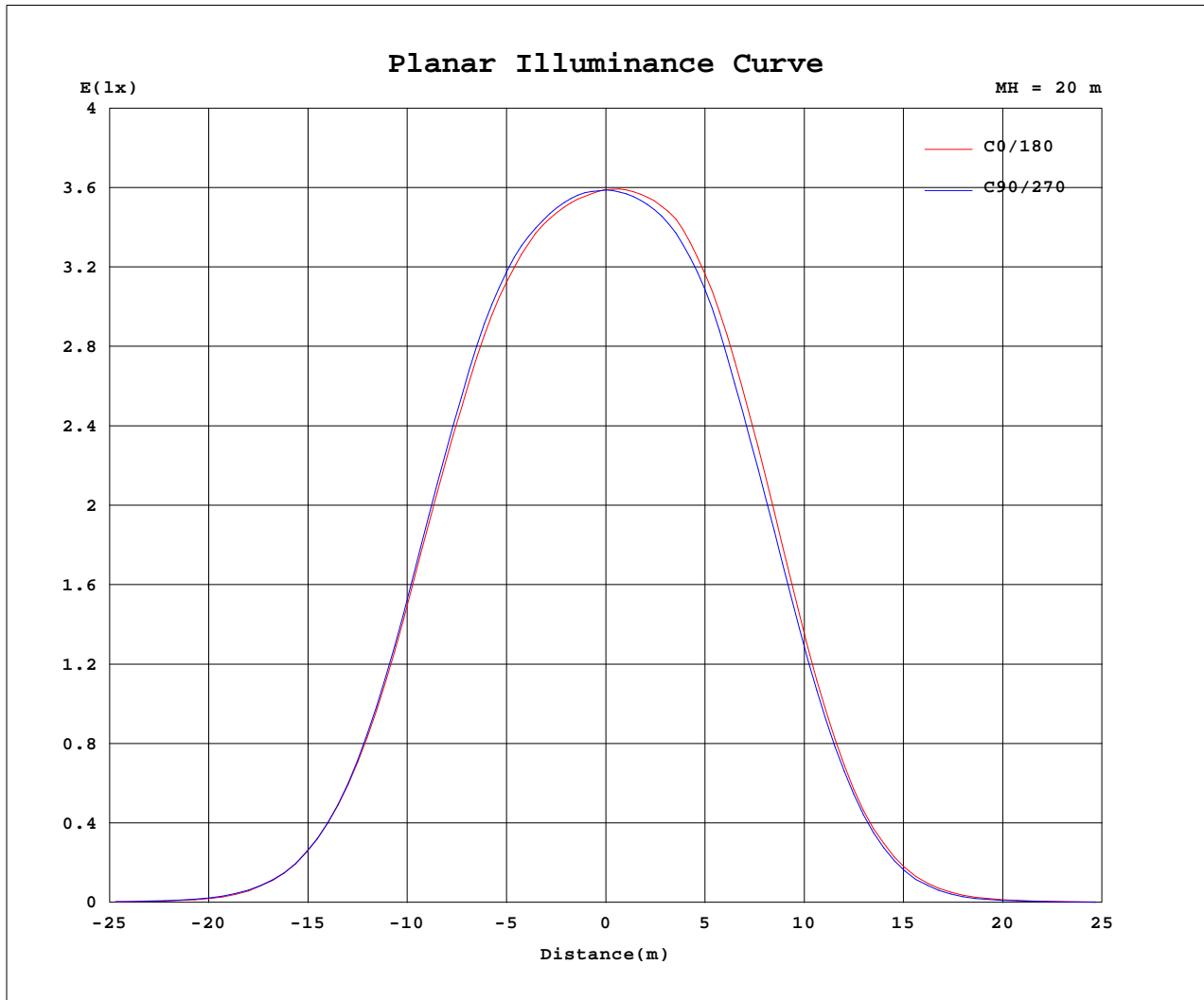
AvgL	cd/m2
L_0~180(65)av	274
L_0~180(75)av	77
L_0~180(85)av	101
L_90~270(65)av	272
L_90~270(75)av	74
L_90~270(85)av	107
L_45(65)av	271
L_45(75)av	70
L_45(85)av	75

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-11-29

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-30G1000-A-83 Ra:90
LENS:PM-1082C 50R
DRIVER:PUP20A-1WMC 400mA
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: 2023-11-29

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-30G1000-A-83 Ra: 90
 LENS: PM-1082C 50R
 DRIVER: PUP20A-1WMC 400mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.12V I:0.1330A P:15.872W PF:0.9920 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.110-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311291400
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1436	1436	1436	1436	1436	1436	1436	1436	1436	1436	1436	1436						
5	1426	1427	1430	1435	1441	1445	1443	1438	1435	1432	1427	1426						
10	1411	1412	1413	1423	1433	1446	1441	1423	1416	1413	1405	1409						
15	1353	1361	1357	1375	1381	1390	1366	1333	1328	1329	1329	1348						
20	1200	1211	1208	1227	1225	1224	1178	1131	1120	1124	1140	1174						
25	941	962	954	961	947	923	872	824	820	829	861	900						
30	596	621	612	609	582	550	507	468	475	484	516	550						
35	292	307	301	292	266	240	218	189	198	201	229	254						
40	99.7	110	108	102	90.9	76.3	64.3	53.4	55.9	55.0	66.4	82.4						
45	22.4	26.8	27.8	26.3	21.8	19.9	16.1	14.0	13.9	13.7	15.7	18.2						
50	8.00	9.16	9.86	9.18	8.09	7.11	6.19	5.22	5.24	5.09	5.62	6.46						
55	3.07	3.40	3.43	3.31	3.05	2.75	2.29	2.20	2.20	2.17	2.21	2.50						
60	1.05	1.11	1.09	1.09	1.03	0.97	0.85	0.79	0.80	0.82	0.87	0.94						
65	0.49	0.50	0.49	0.48	0.45	0.42	0.38	0.35	0.36	0.38	0.41	0.44						
70	0.21	0.21	0.21	0.21	0.19	0.18	0.16	0.15	0.15	0.16	0.17	0.19						
75	0.09	0.08	0.09	0.08	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.07						
80	0.06	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04						
85	0.04	0.03	0.03	0.04	0.03	0.02	0.03	0.03	0.02	0.03	0.02	0.02						
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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γ Range: 0 - 180DEG
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