

Luminaire Photograph



Light Output Ratio:	93.1%	
Luminaire Power:	14.35 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.80	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zoe
Test Date: 2023-3-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: BXRE-30G1000-A-83 Ra: 90
LENS: TH-YL5023H-60D 60R
DRIVER: RMS-15-350AS 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

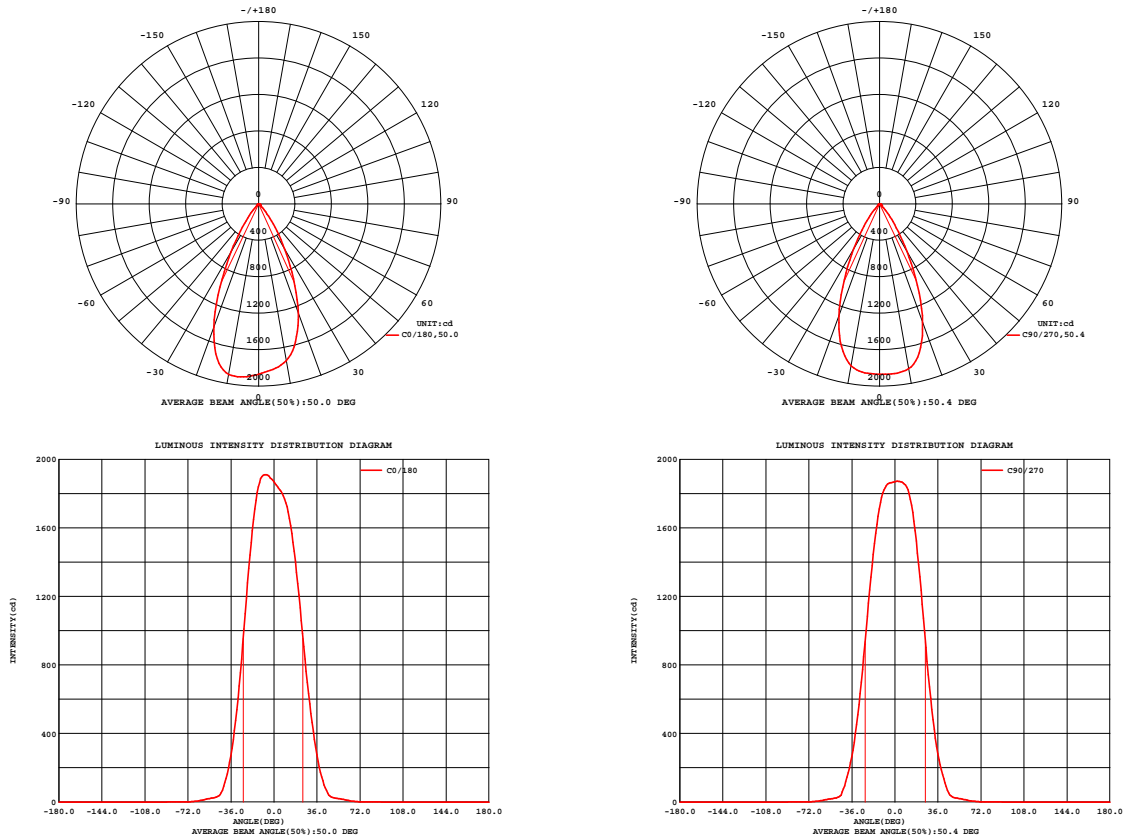


Fig. C0/C180

Fig. C90/C270

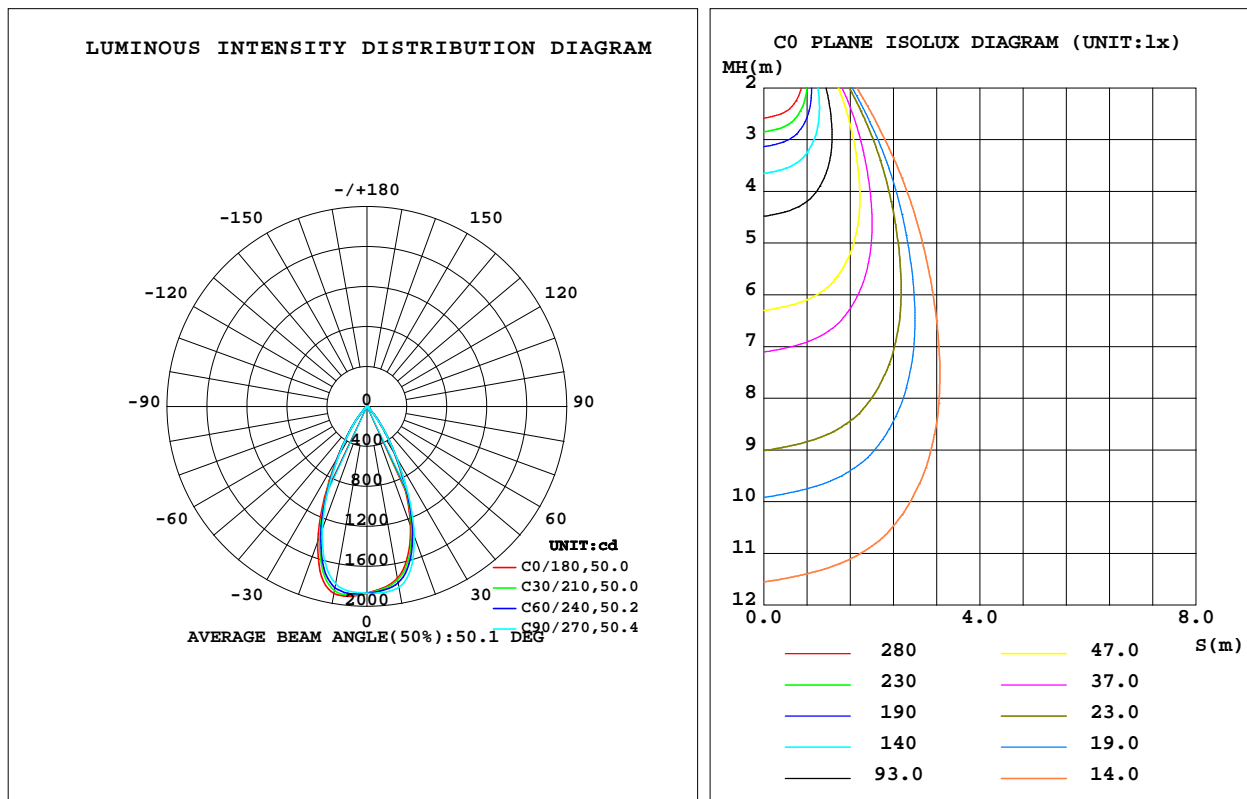
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 30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.29V I:0.0679A P:14.349W PF:0.9559 Freq:49.99Hz Lamp Flux:1442.6x1 lm		
NAME: 2319.200-AD3-350	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303140318
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 93.55 lm/W			
MODEL	Bridgelux	I _{max} (cd)	1910	S/MH(C0/180)	0.78
NOMINAL POWER(W)	14	LOR(%)	93.1	S/MH(C90/270)	0.76
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1342.4	η UP,DN(C0-180)	0.0,46.8
NOMINAL FLUX(lm)	1442.6	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,46.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220	η down(%)	93.1	CIBSE SHR MAX	0.80



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Humidity:65.0%
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Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
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30minutes warm-up

ZONAL FLUX DIAGRAM

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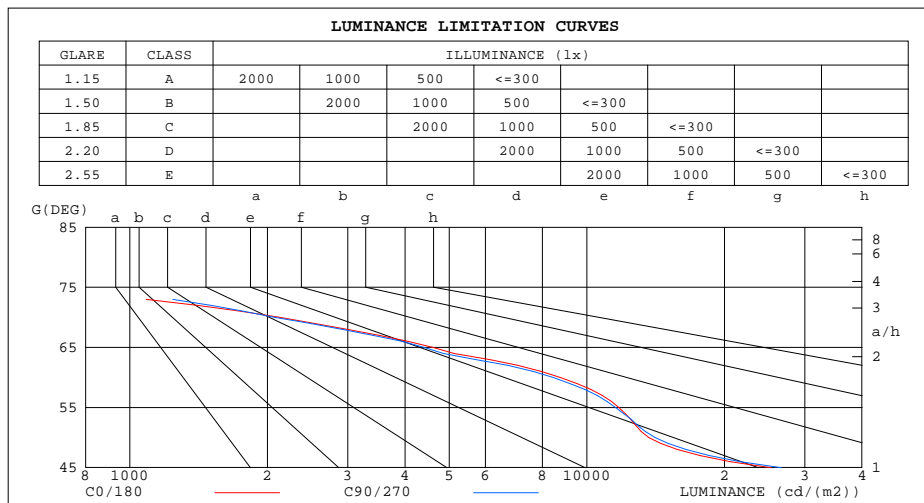
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1746	1777	1836	1877	1899	1857	1803	1770	0- 10	176.7	176.7	13.2,12.2
20	1274	1323	1384	1413	1441	1370	1311	1301	10- 20	455.5	632.2	47.1,43.8
30	573.1	592.5	605.0	592.9	606.0	577.8	568.5	582.2	20- 30	433.2	1065	79.4,73.9
40	146.7	164.8	159.3	149.5	137.0	146.2	144.1	157.5	30- 40	204.8	1270	94.6,88
50	24.85	26.34	25.68	26.44	25.44	25.51	22.57	26.25	40- 50	49.09	1319	98.3,91.5
60	12.38	12.72	11.94	11.69	11.11	11.16	10.58	12.53	50- 60	16.84	1336	99.5,92.6
70	2.057	2.193	2.006	1.849	1.634	1.701	1.664	2.124	60- 70	5.649	1342	100,93
80	0.0469	0.0371	0.0372	0.0327	0.0394	0.0323	0.0373	0.0346	70- 80	0.5727	1342	100,93.1
90	0	0	0	0	0	0	0	0	80- 90	0.0266	1342	100,93.1
100	0	0	0	0	0	0	0	0	90-100	0	1342	100,93.1
110	0	0	0	0	0	0	0	0	100-110	0	1342	100,93.1
120	0	0	0	0	0	0	0	0	110-120	0	1342	100,93.1
130	0	0	0	0	0	0	0	0	120-130	0	1342	100,93.1
140	0	0	0	0	0	0	0	0	130-140	0	1342	100,93.1
150	0	0	0	0	0	0	0	0	140-150	0	1342	100,93.1
160	0	0	0	0	0	0	0	0	150-160	0	1342	100,93.1
170	0	0	0	0	0	0	0	0	160-170	0	1342	100,93.1
180	0	0	0	0	0	0	0	0	170-180	0	1342	100,93.1
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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 γ Interval: 1.0DEG
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Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS: TH-YL5023H-60D 60R
DRIVER: RMS-15-350AS 350mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.29V I:0.0679A P:14.349W PF:0.9559 Freq:49.99Hz Lamp Flux:1442.6x1 lm		
NAME: 2319.200-AD3-350	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303140318
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	135	113
80	96	76
75	383	343
70	2128	2074
65	4606	4401
60	8756	8444
55	11755	11567
50	13673	14129
45	25325	26668

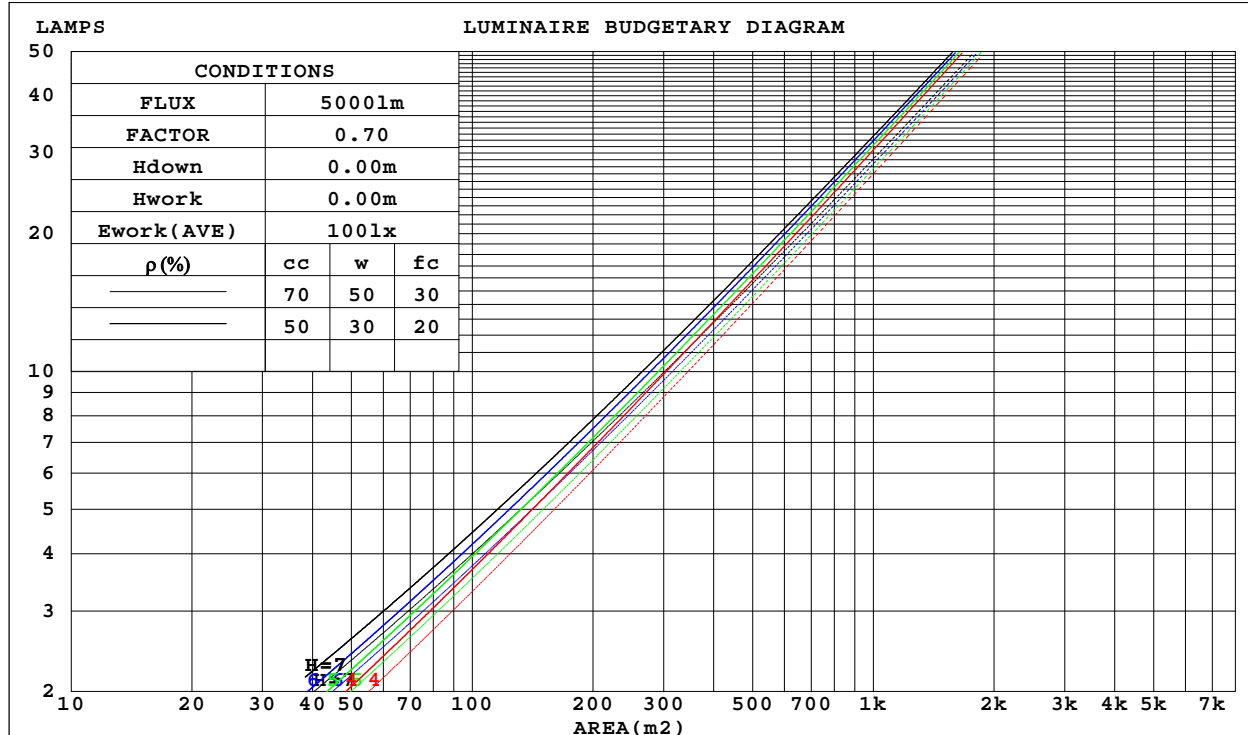
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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MFR.: RISE	SUR.:0.002826m2	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	1.11	1.11	1.11	1.08	1.08	1.08	1.03	1.03	1.03	.99	.99	.99	.95	.95	.95	.93
1.0	1.03	1.01	.99	1.01	.90	.98	.98	.96	.95	.94	.93	.92	.91	.90	.89	.88
2.0	.97	.93	.90	.95	.92	.89	.92	.90	.87	.89	.87	.85	.87	.85	.84	.82
3.0	.91	.86	.83	.90	.86	.82	.87	.84	.81	.85	.82	.80	.83	.81	.79	.77
4.0	.85	.81	.77	.84	.80	.76	.82	.79	.76	.81	.77	.75	.79	.76	.74	.72
5.0	.80	.75	.72	.80	.75	.71	.78	.74	.71	.76	.73	.70	.75	.72	.69	.68
6.0	.76	.71	.67	.75	.70	.67	.74	.70	.66	.73	.69	.66	.71	.68	.65	.64
7.0	.72	.67	.63	.71	.66	.63	.70	.66	.63	.69	.65	.62	.68	.65	.62	.61
8.0	.68	.63	.59	.68	.63	.59	.67	.62	.59	.66	.62	.59	.65	.61	.59	.57
9.0	.65	.60	.56	.64	.59	.56	.63	.59	.56	.63	.59	.56	.62	.58	.56	.54
10.0	.62	.57	.53	.61	.56	.53	.61	.56	.53	.60	.56	.53	.59	.55	.53	.52



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WEC AND CCEC

Test:U:220.29V I:0.0679A P:14.349W PF:0.9559 Freq:49.99Hz Lamp Flux:1442.6x1 lm		
NAME: 2319.200-AD3-350	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303140318
MFR.: RISE	SUR.:0.002826m2	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 Wall Exitance Coefficients(WEC)															
0.0																
1.0	.157	.089	.028	.151	.086	.027	.139	.080	.026	.129	.074	.024	.119	.069	.022	
2.0	.150	.082	.025	.145	.080	.025	.135	.075	.023	.126	.071	.022	.118	.067	.021	
3.0	.143	.076	.023	.138	.074	.022	.130	.070	.021	.122	.067	.021	.115	.064	.020	
4.0	.136	.070	.021	.132	.069	.020	.125	.066	.020	.118	.063	.019	.112	.061	.019	
5.0	.129	.066	.019	.126	.065	.019	.120	.062	.018	.114	.060	.018	.109	.058	.017	
6.0	.123	.062	.018	.120	.061	.018	.115	.059	.017	.110	.057	.017	.105	.055	.016	
7.0	.118	.058	.017	.115	.057	.016	.111	.056	.016	.106	.054	.016	.102	.053	.016	
8.0	.113	.055	.016	.111	.054	.015	.106	.053	.015	.102	.052	.015	.099	.051	.015	
9.0	.108	.052	.015	.106	.052	.015	.102	.051	.014	.099	.050	.014	.095	.048	.014	
10.0	.104	.050	.014	.102	.049	.014	.099	.048	.014	.095	.047	.013	.092	.046	.013	

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 Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.177	.177	.177	.151	.151	.151	.103	.103	.103	.059	.059	.059	.019	.019	.019	
1.0	.159	.146	.135	.136	.126	.117	.093	.086	.081	.053	.050	.047	.017	.016	.015	
2.0	.144	.123	.106	.123	.106	.092	.085	.073	.064	.049	.043	.037	.016	.014	.012	
3.0	.132	.106	.084	.113	.091	.073	.078	.063	.051	.045	.037	.030	.014	.012	.010	
4.0	.122	.092	.069	.105	.079	.060	.072	.055	.042	.042	.032	.025	.013	.011	.008	
5.0	.114	.081	.057	.098	.070	.049	.067	.049	.035	.039	.029	.021	.013	.009	.007	
6.0	.107	.072	.047	.092	.062	.041	.063	.044	.029	.037	.026	.017	.012	.008	.006	
7.0	.101	.065	.040	.087	.056	.035	.060	.040	.025	.035	.023	.015	.011	.008	.005	
8.0	.095	.059	.034	.082	.051	.030	.057	.036	.021	.033	.021	.013	.011	.007	.004	
9.0	.091	.054	.030	.078	.047	.026	.054	.033	.018	.031	.020	.011	.010	.006	.004	
10.0	.086	.050	.026	.074	.044	.023	.052	.031	.016	.030	.018	.010	.010	.006	.003	

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UGR(Unified Glare Rating) Table

Test:U:220.29V I:0.0679A P:14.349W PF:0.9559 Freq:49.99Hz Lamp Flux:1442.6x1 lm										
NAME: 2319.200-AD3-350					TYPE:			WEIGHT:		
SPEC.:3000K					DIM.:			SERIAL No.:2303140318		
MFR.: RISE					SUR.:0.002826m2			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	19.9	20.8	20.2	21.0	21.1	20.0	20.9	20.2	21.1	21.2
3H	19.8	20.6	20.0	20.8	21.0	19.9	20.7	20.1	20.9	21.1
4H	19.7	20.5	20.0	20.7	20.9	19.8	20.6	20.0	20.8	21.0
6H	19.6	20.3	19.9	20.6	20.8	19.7	20.4	20.0	20.7	20.9
8H	19.6	20.3	19.9	20.5	20.8	19.6	20.3	19.9	20.6	20.9
12H	19.5	20.2	19.8	20.5	20.7	19.6	20.3	19.9	20.5	20.8
4H 2H	19.7	20.5	20.0	20.7	20.9	19.8	20.6	20.1	20.8	21.0
3H	19.6	20.2	19.9	20.5	20.8	19.6	20.3	20.0	20.6	20.9
4H	19.5	20.1	19.8	20.4	20.7	19.6	20.2	19.9	20.5	20.8
6H	19.4	19.9	19.8	20.3	20.6	19.5	20.0	19.8	20.3	20.7
8H	19.3	19.8	19.7	20.2	20.5	19.4	19.9	19.8	20.3	20.6
12H	19.3	19.7	19.7	20.1	20.5	19.4	19.8	19.8	20.2	20.6
8H 4H	19.3	19.8	19.7	20.2	20.5	19.4	19.9	19.8	20.3	20.6
6H	19.2	19.6	19.7	20.0	20.4	19.3	19.7	19.7	20.1	20.5
8H	19.2	19.5	19.6	20.0	20.4	19.2	19.6	19.7	20.0	20.5
12H	19.1	19.4	19.6	19.9	20.3	19.2	19.5	19.7	19.9	20.4
12H 4H	19.3	19.7	19.7	20.1	20.5	19.4	19.8	19.8	20.2	20.6
6H	19.2	19.5	19.6	20.0	20.4	19.2	19.6	19.7	20.0	20.5
8H	19.1	19.4	19.6	19.9	20.3	19.2	19.5	19.7	19.9	20.4
Variations with the observer position at spacings:										
S = 1.0H	+ 2.9 / - 7.7					+ 3.1 / - 7.8				
1.5H	+ 5.2 / - 6.1					+ 5.4 / - 6.1				
2.0H	+ 3.8 / - 4.1					+ 4.1 / - 4.4				

CIE Pub.117, 1443 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 1.3)
Area: 0.002826 m2

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UTILIZATION FACTORS TABLE

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MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

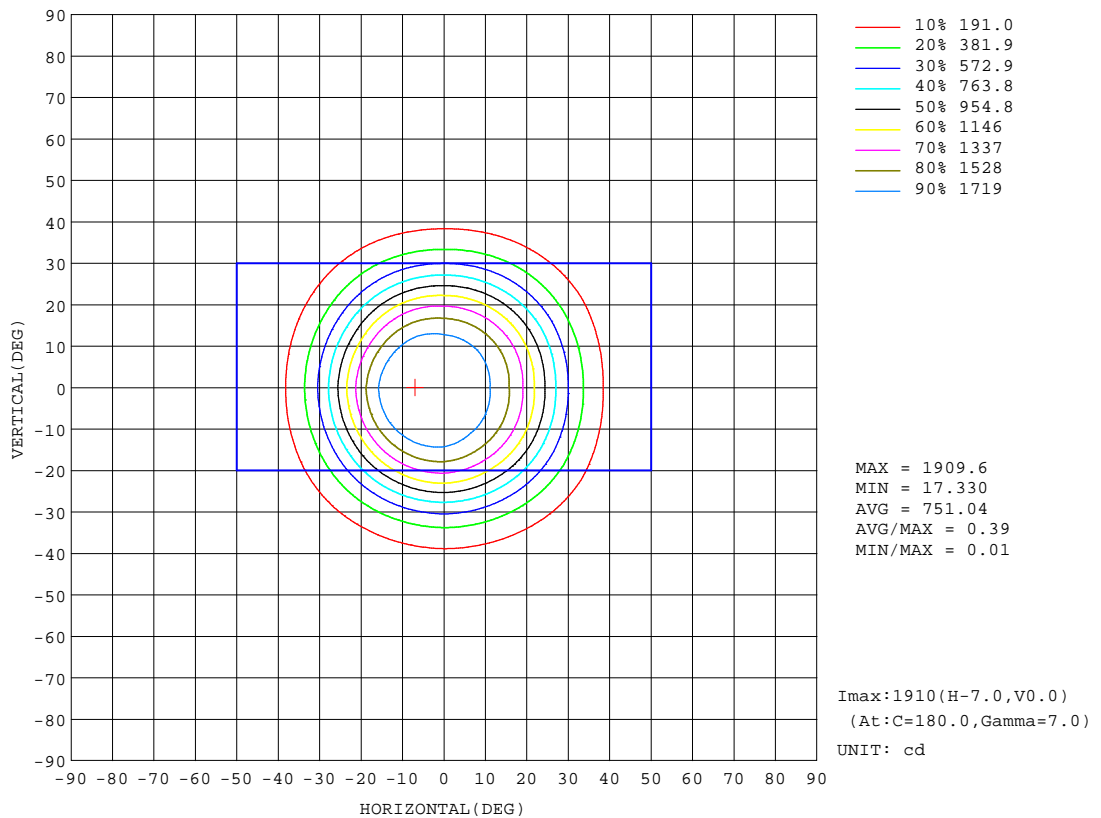
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	82	76	73	82	76	73	81	76	73	69
0.80	89	84	80	88	83	80	87	83	80	76
1.00	93	88	85	92	87	84	91	87	84	80
1.25	97	92	89	96	91	88	94	90	88	84
1.50	99	95	92	98	94	91	96	93	90	86
2.00	101	98	95	100	97	94	98	95	93	88
2.50	103	99	97	101	98	96	99	96	94	89
3.00	104	101	99	103	100	98	100	97	96	90
4.00	106	104	102	104	102	100	101	99	98	91
5.00	107	105	104	105	104	102	102	100	99	92
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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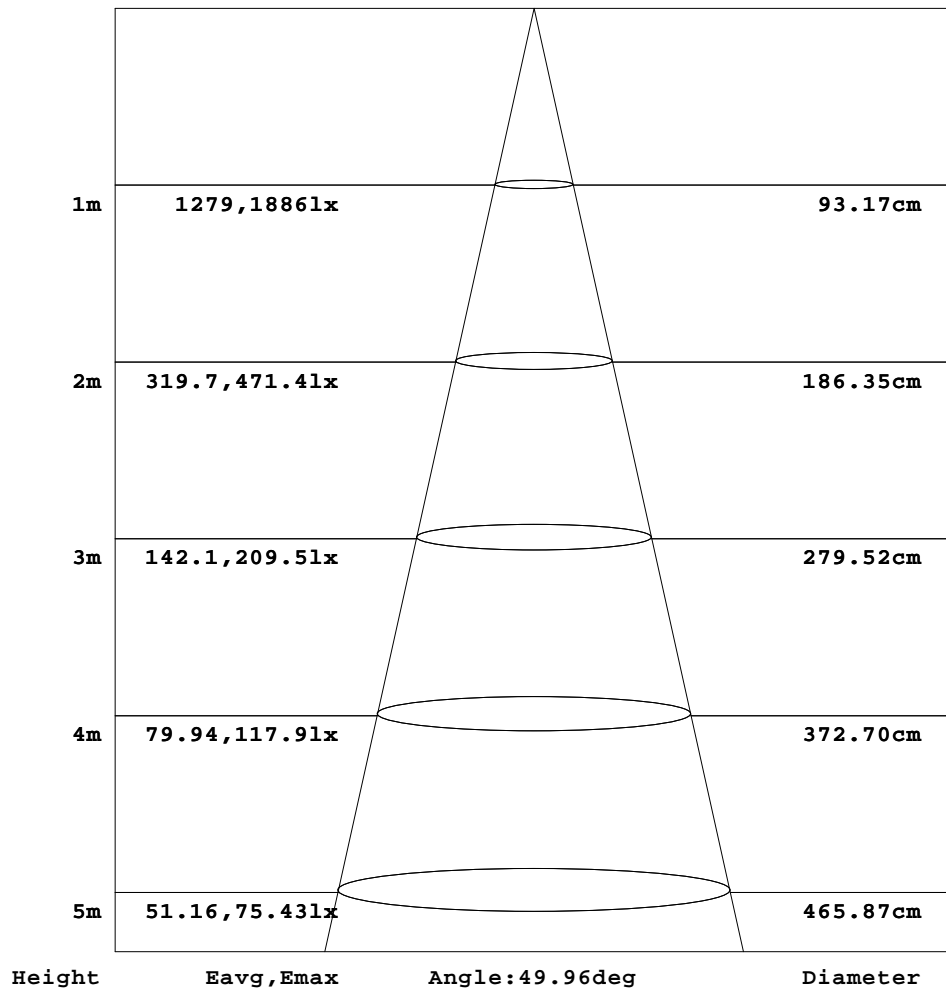
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30minutes warm-up

AAI Figure

Test:U:220.29V I:0.0679A P:14.349W PF:0.9559 Freq:49.99Hz Lamp Flux:1442.6x1 lm		
NAME: 2319.200-AD3-350	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303140318
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

Flux out:873.7 lm



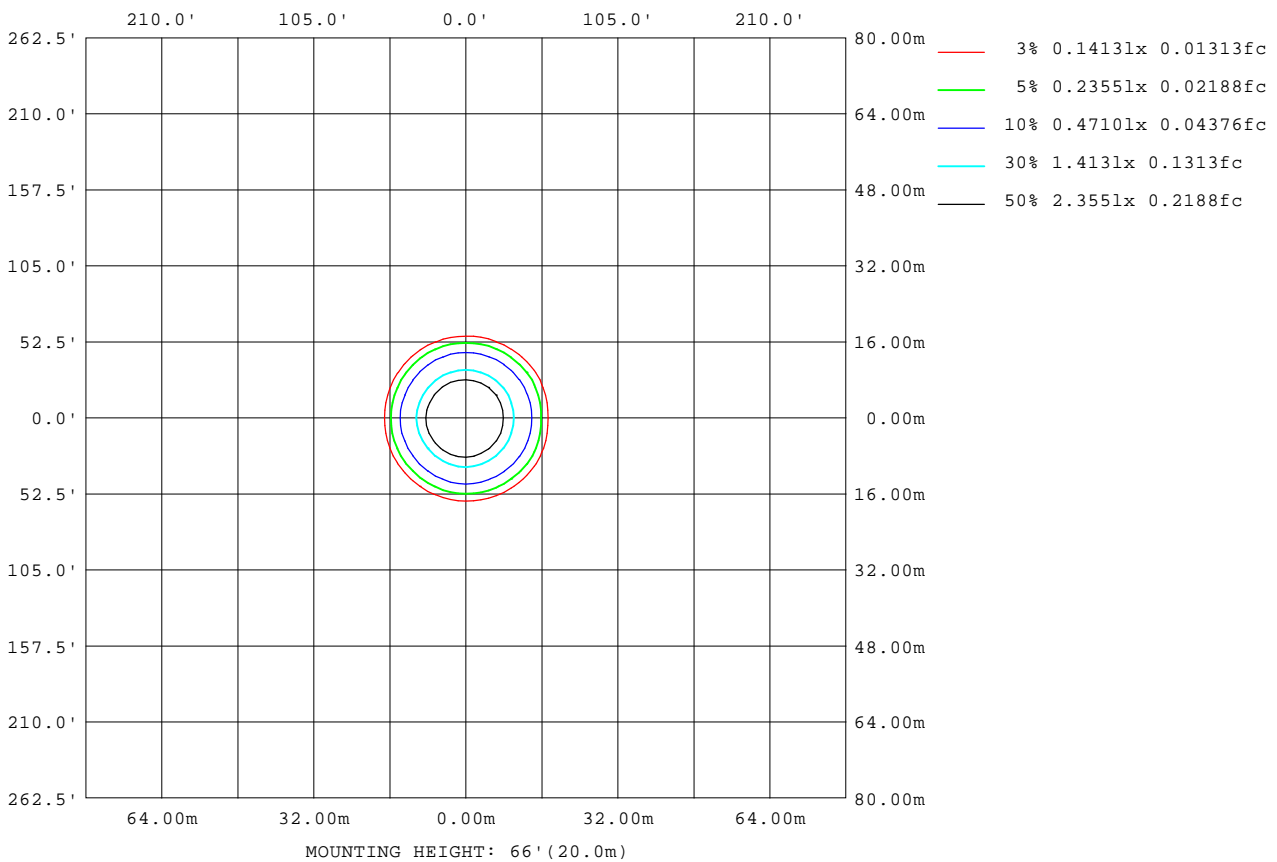
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zoe
Test Date: 2023-3-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: BXRE-30G1000-A-83 Ra: 90
LENS: TH-YL5023H-60D 60R
DRIVER: RMS-15-350AS 350mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:220.29V I:0.0679A P:14.349W PF:0.9559 Freq:49.99Hz Lamp Flux:1442.6x1 lm		
NAME: 2319.200-AD3-350	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303140318
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-3-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS: TH-YL5023H-60D 60R
DRIVER: RMS-15-350AS 350mA
30minutes warm-up

LED Avg.L Report

Test:U:220.29V I:0.0679A P:14.349W PF:0.9559 Freq:49.99Hz Lamp Flux:1442.6x1 lm		
NAME: 2319.200-AD3-350	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303140318
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

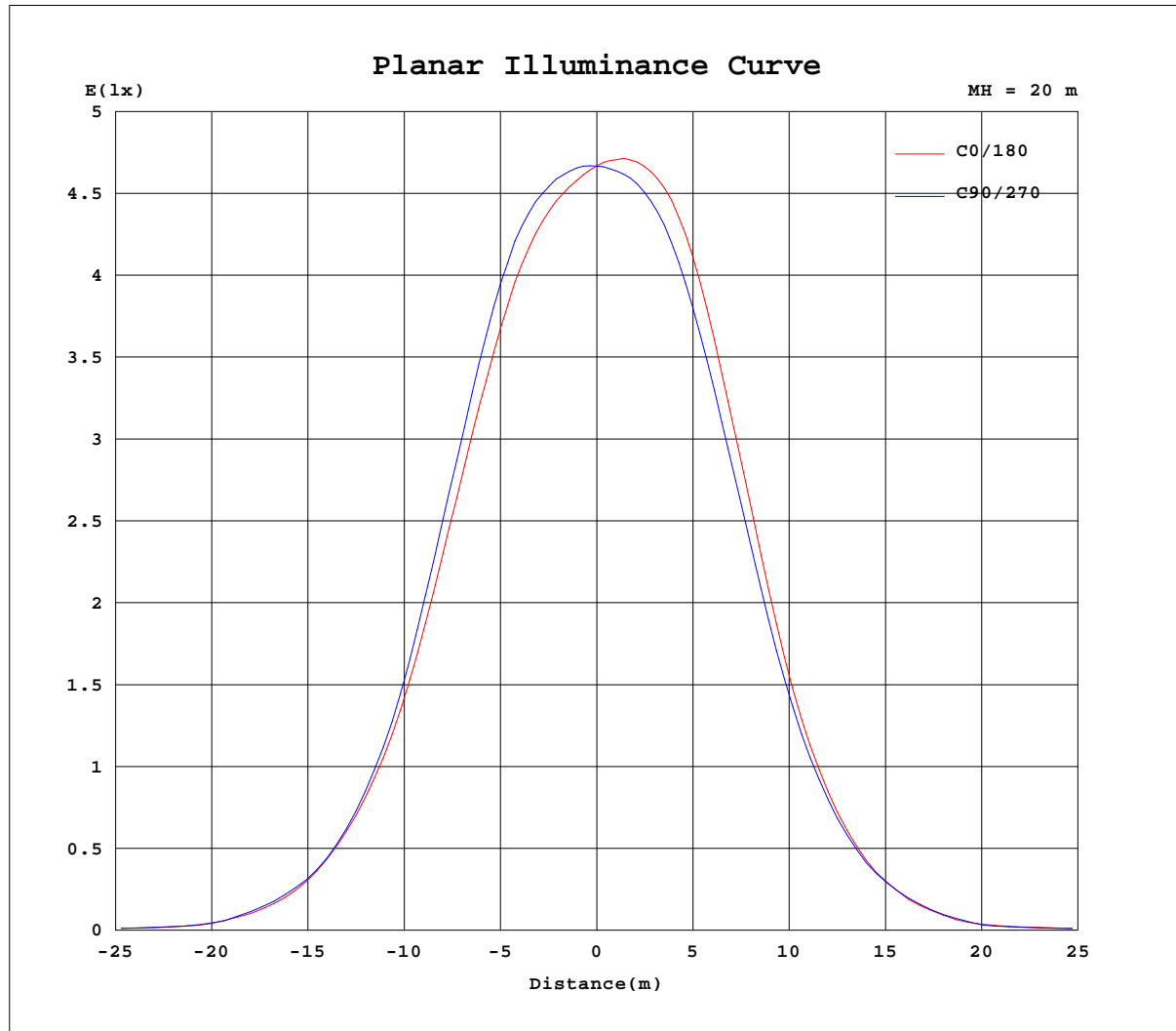
AvgL	cd/m2
L_0~180(65)av	4241
L_0~180(75)av	294
L_0~180(85)av	129
L_90~270(65)av	4134
L_90~270(75)av	258
L_90~270(85)av	111
L_45(65)av	4422
L_45(75)av	317
L_45(85)av	83

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-3-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS: TH-YL5023H-60D 60R
DRIVER: RMS-15-350AS 350mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Zoe
 Test Date: 2023-3-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks: LAMP: BXRE-30G1000-A-83 Ra: 90
 LENS: TH-YL5023H-60D 60R
 DRIVER: RMS-15-350AS 350mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.29V I:0.0679A P:14.349W PF:0.9559 Freq:49.99Hz Lamp Flux:1442.6x1 lm		
NAME: 2319.200-AD3-350	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303140318
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1868	1868	1868	1868	1868	1868	1868	1868	1868	1868	1868	1868						
5	1822	1832	1846	1868	1886	1901	1905	1895	1881	1860	1846	1827						
10	1746	1762	1792	1836	1865	1889	1899	1870	1843	1803	1781	1759						
15	1566	1595	1632	1690	1718	1747	1760	1708	1672	1619	1600	1585						
20	1274	1307	1338	1384	1403	1423	1441	1385	1354	1311	1304	1297						
25	907	941	957	987	984	987	1009	957	943	920	926	927						
30	573	594	591	605	595	591	606	577	579	569	579	585						
35	320	331	322	324	310	308	313	301	307	302	317	323						
40	147	168	161	159	152	147	137	145	148	144	152	163						
45	50.6	56.0	63.2	53.3	49.6	45.0	43.7	44.1	45.0	40.9	47.6	60.7						
50	24.8	26.2	26.5	25.7	26.6	26.3	25.4	25.9	25.1	22.6	25.5	27.0						
55	19.1	19.7	19.5	18.8	19.6	19.4	18.9	19.1	18.5	17.2	19.0	20.2						
60	12.4	12.9	12.5	11.9	11.9	11.5	11.1	11.3	11.1	10.6	12.0	13.1						
65	5.50	5.83	5.61	5.26	5.09	4.87	4.63	4.76	4.69	4.62	5.25	5.90						
70	2.06	2.23	2.16	2.01	1.90	1.80	1.63	1.70	1.70	1.66	1.97	2.27						
75	0.28	0.37	0.32	0.25	0.17	0.11	0.15	0.11	0.11	0.13	0.24	0.39						
80	0.05	0.04	0.04	0.04	0.03	0.03	0.04	0.03	0.03	0.04	0.03	0.04						
85	0.03	0.02	0.02	0.03	0.02	0.02	0.03	0.02	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:25.3DEG
Operators:Zoe
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