

Luminaire Photograph



Light Output Ratio:	77.6%	
Luminaire Power:	19.39 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: 25.3 °C
Operators: zoe
Test Date: 2023-7-14

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: BXRE-30G1000-A-83 Ra: 90
LENS: PM-1083C 50R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

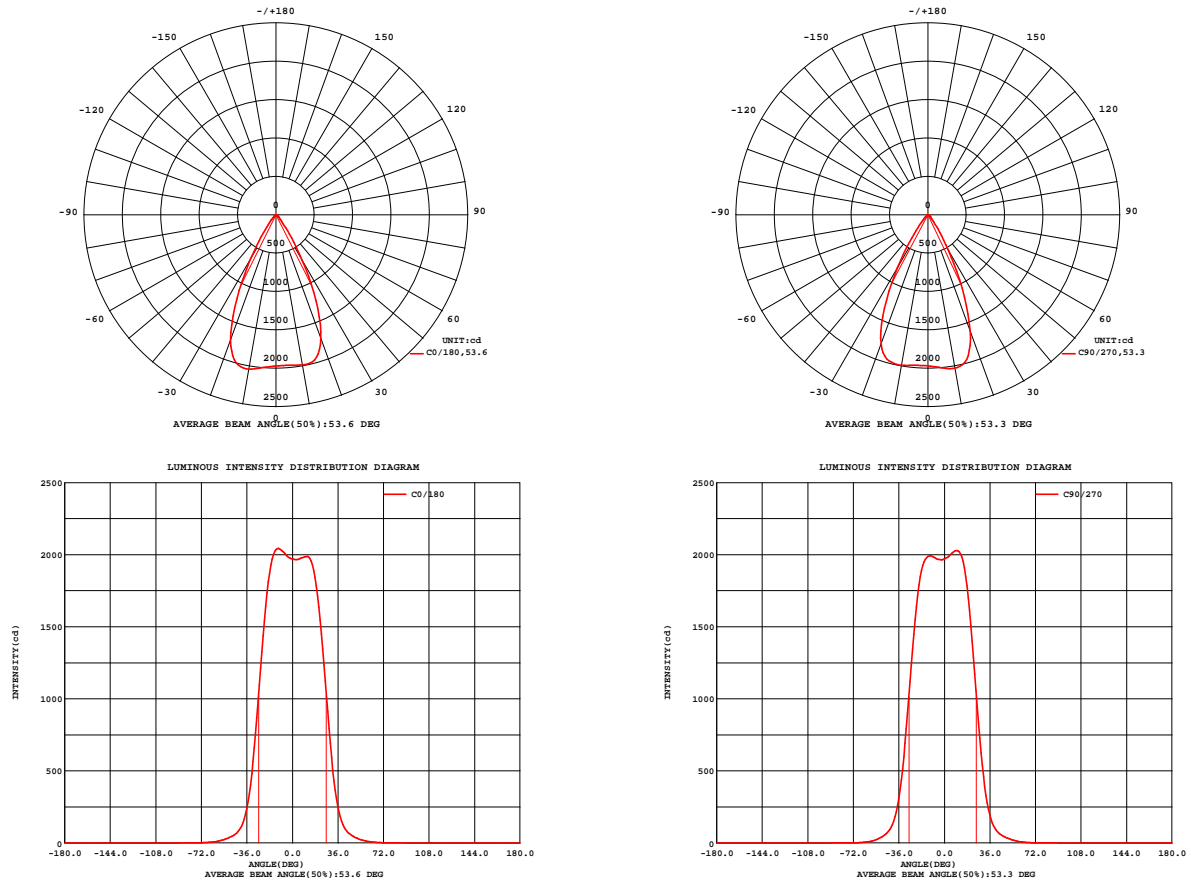


Fig. C0/C180

Fig. C90/C270

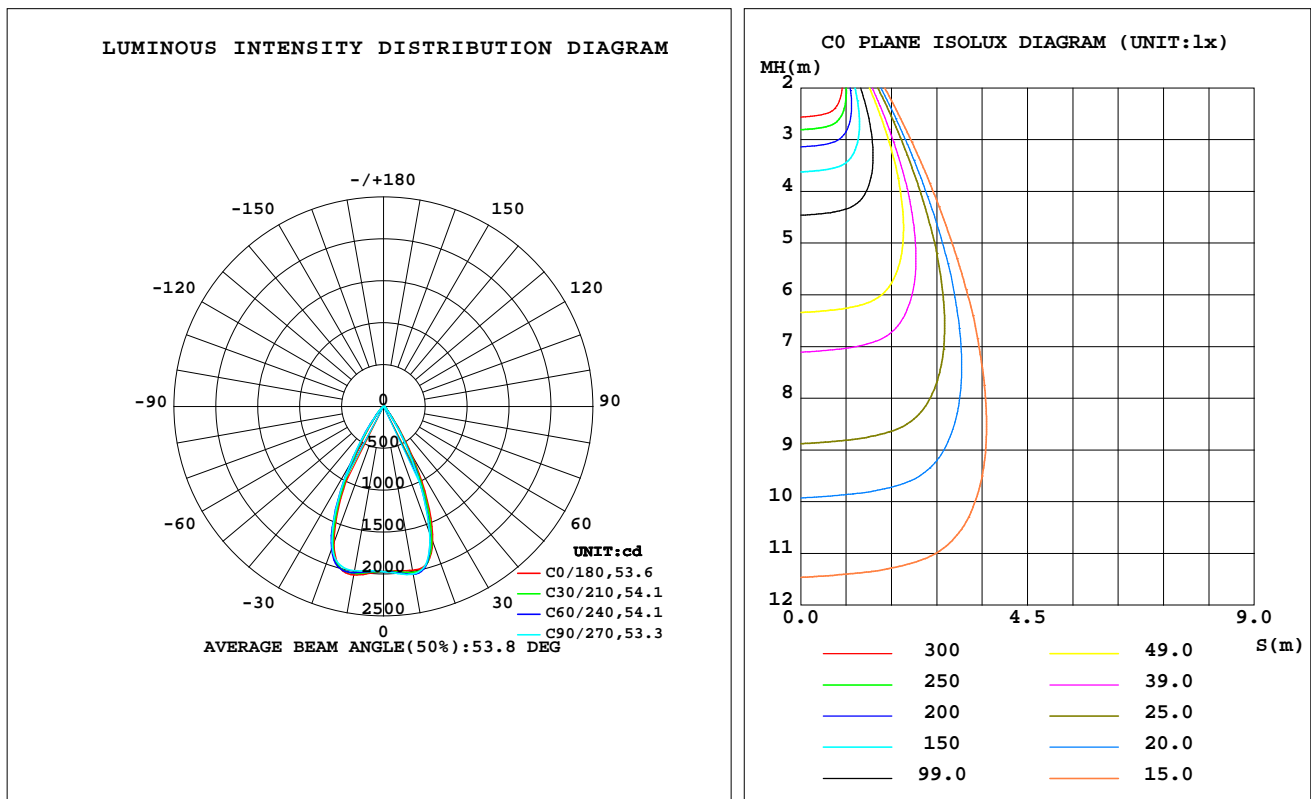
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-7-14

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]
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.25V I:0.1622A P:19.392W PF:0.9933 Freq:59.98Hz Lamp Flux:2011.9x1 lm		
NAME: 2118.192-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307140902
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 80.55 lm/W			
MODEL	Bridgelux	Imax(cd)	2056	S/MH(C0/180)	0.79
NOMINAL POWER(W)	20	LOR(%)	77.6	S/MH(C90/270)	0.83
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1562.1	η UP,DN(C0-180)	0.0,37.0
NOMINAL FLUX(lm)	2011.9	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,40.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	η down(%)	77.6	CIBSE SHR MAX	0.80



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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	1985	2021	2028	2054	2040	2018	1990	1986	0- 10	190.6	190.6	12.2,9.48
20	1714	1650	1611	1658	1735	1792	1790	1771	10- 20	545.2	735.8	47.1,36.6
30	690.8	591.9	537.6	577.2	658.5	761.4	793.1	770.8	20- 30	543.2	1279	81.9,63.6
40	128.0	110.5	102.6	108.1	119.4	143.1	151.3	147.6	30- 40	204.2	1483	95,73.7
50	37.68	35.11	33.59	35.36	36.55	38.59	39.10	39.59	40- 50	53.08	1536	98.4,76.4
60	10.07	9.533	8.477	9.675	9.950	9.566	8.823	9.566	50- 60	18.81	1555	99.6,77.3
70	2.290	2.156	2.000	2.234	2.394	1.937	1.595	1.873	60- 70	5.220	1560	99.9,77.6
80	0.8828	0.7362	0.6415	0.7825	0.9165	0.6793	0.5771	0.6767	70- 80	1.411	1562	100,77.6
90	0	0	0	0	0	0	0	0	80- 90	0.2963	1562	100,77.6
100	0	0	0	0	0	0	0	0	90-100	0	1562	100,77.6
110	0	0	0	0	0	0	0	0	100-110	0	1562	100,77.6
120	0	0	0	0	0	0	0	0	110-120	0	1562	100,77.6
130	0	0	0	0	0	0	0	0	120-130	0	1562	100,77.6
140	0	0	0	0	0	0	0	0	130-140	0	1562	100,77.6
150	0	0	0	0	0	0	0	0	140-150	0	1562	100,77.6
160	0	0	0	0	0	0	0	0	150-160	0	1562	100,77.6
170	0	0	0	0	0	0	0	0	160-170	0	1562	100,77.6
180	0	0	0	0	0	0	0	0	170-180	0	1562	100,77.6
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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γ Range: 0 - 180DEG
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 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
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 LENS:PM-1083C 50R
 DRIVER: PUP20A-1WMC 500mA
 30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:120.25V I:0.1622A P:19.392W PF:0.9933 Freq:59.98Hz
Lamp Flux:2011.9x1 lm

NAME: 2118.192-LEA-15

TYPE:

WEIGHT:

SPEC.: 3000K

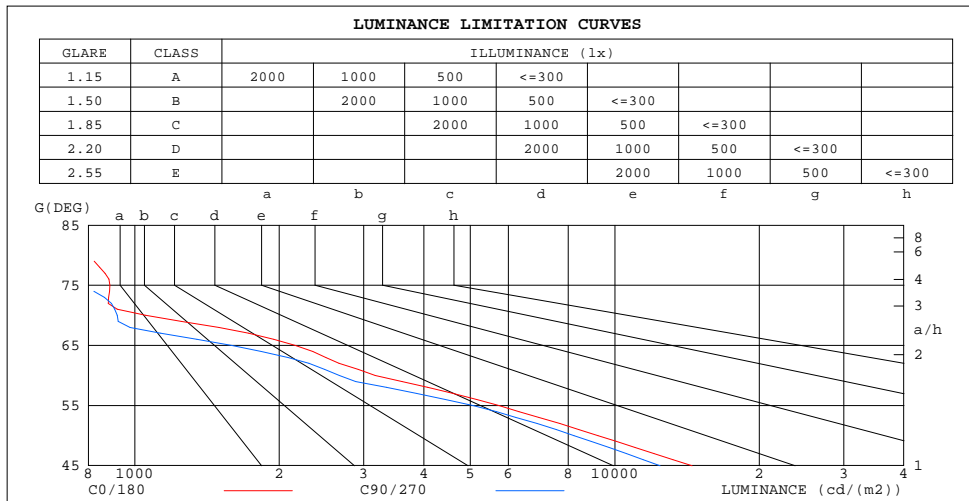
DIM.:

SERIAL No.: 2307140902

MFR.: RISE

SUR.: 0.0063585m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	648	288
80	800	581
75	888	784
70	1053	919
65	2160	1591
60	3169	2666
55	5739	5068
50	9222	8217
45	14484	12432

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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WEIGHT:

SPEC.: 3000K

DIM.:

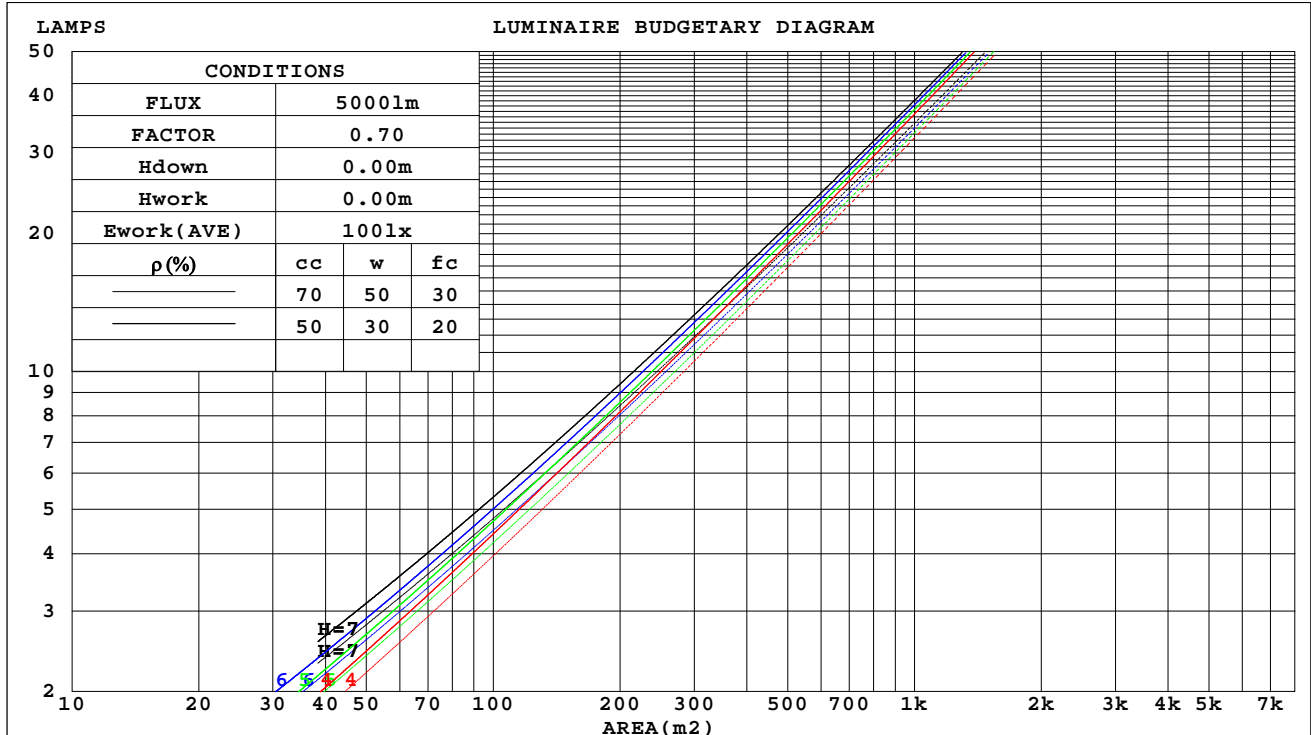
SERIAL No.: 2307140902

MFR.: RISE

SUR.: 0.0063585m2

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															



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C Interval: 30.0DEG

Test Speed: HIGH

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Operators:zoe

Test Date:2023-7-14

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30minutes warm-up

WEC AND CCEC

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NAME: 2118.192-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307140902
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	.131	.074	.024	.126	.072	.023	.116	.067	.021	.107	.062	.020	.099	.057	.018	
2.0	.125	.068	.021	.120	.066	.020	.112	.062	.019	.105	.059	.018	.098	.055	.017	
3.0	.118	.063	.019	.115	.061	.018	.108	.058	.018	.101	.056	.017	.095	.053	.016	
4.0	.113	.059	.017	.109	.057	.017	.104	.055	.016	.098	.053	.016	.093	.050	.015	
5.0	.107	.055	.016	.105	.054	.016	.099	.052	.015	.095	.050	.015	.090	.048	.014	
6.0	.102	.051	.015	.100	.051	.015	.095	.049	.014	.091	.047	.014	.087	.046	.014	
7.0	.098	.048	.014	.096	.048	.014	.092	.046	.013	.088	.045	.013	.085	.044	.013	
8.0	.094	.046	.013	.092	.045	.013	.088	.044	.013	.085	.043	.012	.082	.042	.012	
9.0	.090	.044	.012	.088	.043	.012	.085	.042	.012	.082	.041	.012	.079	.040	.012	
10.0	.086	.041	.012	.085	.041	.011	.082	.040	.011	.079	.039	.011	.077	.039	.011	

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	.148	.148	.148	.126	.126	.126	.086	.086	.086	.050	.050	.050	.016	.016	.016	
1.0	.132	.122	.113	.113	.105	.097	.077	.072	.067	.045	.042	.039	.014	.013	.013	
2.0	.120	.103	.088	.103	.089	.076	.071	.061	.053	.041	.036	.031	.013	.012	.010	
3.0	.110	.088	.071	.094	.076	.061	.065	.053	.043	.037	.031	.025	.012	.010	.008	
4.0	.102	.077	.057	.087	.066	.050	.060	.046	.035	.035	.027	.021	.011	.009	.007	
5.0	.095	.067	.047	.081	.058	.041	.056	.041	.029	.033	.024	.017	.010	.008	.006	
6.0	.089	.060	.040	.076	.052	.034	.053	.036	.024	.031	.021	.014	.010	.007	.005	
7.0	.084	.054	.033	.072	.047	.029	.050	.033	.021	.029	.019	.012	.009	.006	.004	
8.0	.079	.049	.029	.068	.043	.025	.047	.030	.018	.027	.018	.011	.009	.006	.004	
9.0	.075	.045	.025	.065	.039	.022	.045	.028	.015	.026	.016	.009	.008	.005	.003	
10.0	.072	.042	.022	.062	.036	.019	.043	.026	.014	.025	.015	.008	.008	.005	.003	

C Range: 0 - 360DEG
C Interval: 30.0DEG
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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-30G1000-A-83 Ra:90
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DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:120.25V I:0.1622A P:19.392W PF:0.9933 Freq:59.98Hz Lamp Flux:2011.9x1 lm										
NAME: 2118.192-LEA-15					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2307140902		
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	13.8	14.7	14.1	14.9	15.1	12.7	13.6	12.9	13.7	13.9
3H	13.7	14.5	14.0	14.7	14.9	12.5	13.4	12.8	13.6	13.8
4H	13.6	14.4	13.9	14.6	14.8	12.5	13.2	12.7	13.5	13.7
6H	13.5	14.3	13.8	14.5	14.8	12.4	13.1	12.7	13.3	13.6
8H	13.5	14.2	13.8	14.5	14.7	12.3	13.0	12.6	13.3	13.5
12H	13.5	14.1	13.8	14.4	14.7	12.3	13.0	12.6	13.2	13.5
4H 2H	13.6	14.4	13.9	14.6	14.8	12.5	13.3	12.8	13.5	13.7
3H	13.5	14.2	13.8	14.4	14.7	12.3	13.0	12.7	13.3	13.6
4H	13.4	14.0	13.8	14.3	14.6	12.3	12.9	12.6	13.2	13.5
6H	13.3	13.9	13.7	14.2	14.5	12.2	12.7	12.6	13.0	13.4
8H	13.3	13.8	13.7	14.1	14.5	12.1	12.6	12.5	13.0	13.3
12H	13.2	13.7	13.6	14.1	14.4	12.1	12.5	12.5	12.9	13.3
8H 4H	13.3	13.8	13.7	14.1	14.5	12.1	12.6	12.5	13.0	13.3
6H	13.2	13.6	13.6	14.0	14.4	12.0	12.4	12.5	12.8	13.2
8H	13.1	13.5	13.6	13.9	14.3	12.0	12.3	12.4	12.8	13.2
12H	13.1	13.4	13.5	13.8	14.3	11.9	12.2	12.4	12.7	13.1
12H 4H	13.2	13.7	13.6	14.0	14.4	12.1	12.5	12.5	12.9	13.3
6H	13.1	13.5	13.6	13.9	14.3	12.0	12.3	12.4	12.8	13.2
8H	13.1	13.4	13.5	13.8	14.3	11.9	12.2	12.4	12.7	13.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.6 / - 6.5					+ 3.0 / - 6.3				
1.5H	+ 5.2 / - 4.5					+ 4.4 / - 4.3				
2.0H	+ 4.5 / - 4.7					+ 4.2 / - 5.2				

CIE Pub.117, 2012 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.4)
Area: 0.0063585 m2

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UTILIZATION FACTORS TABLE

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MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

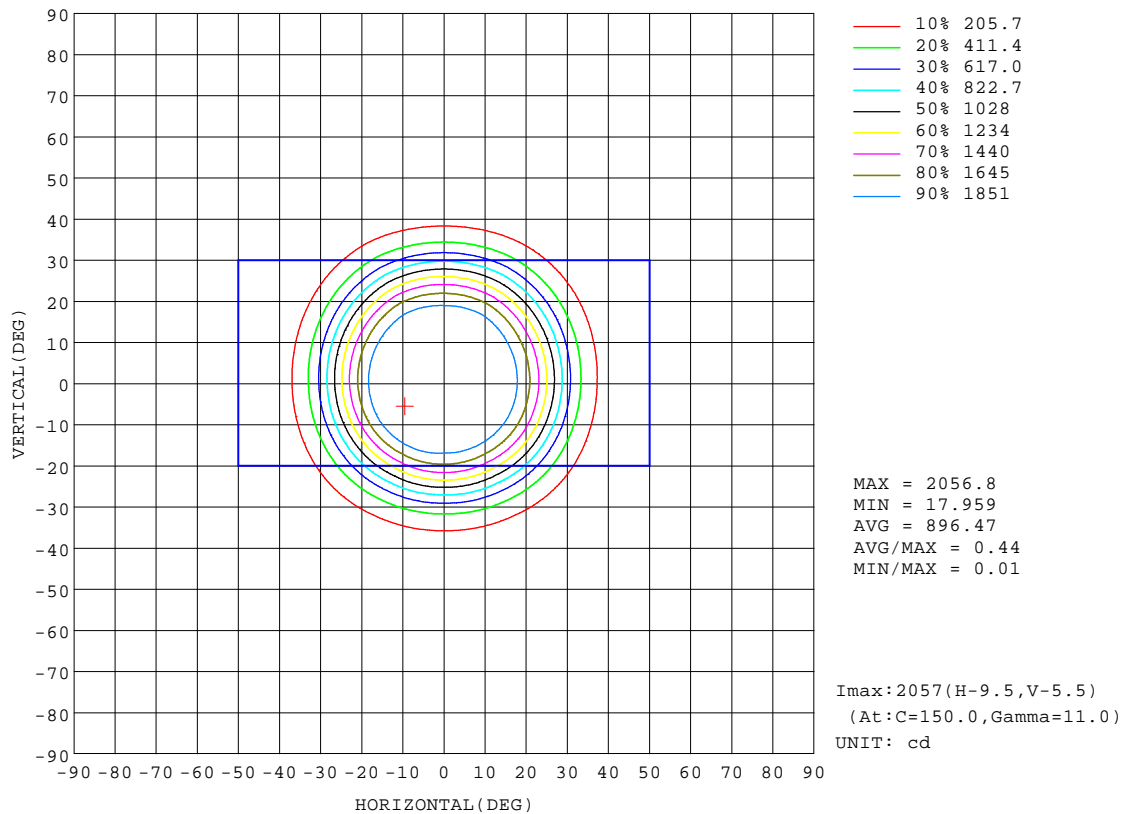
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	69	64	61	68	64	61	68	63	61	58
0.80	74	70	67	74	70	67	73	69	67	64
1.00	78	73	71	77	73	70	76	73	70	67
1.25	81	77	74	80	76	74	78	75	73	70
1.50	83	79	77	82	79	76	80	77	75	72
2.00	85	82	79	84	81	79	81	79	77	73
2.50	86	83	81	85	82	80	82	80	79	74
3.00	87	84	82	86	83	82	83	81	80	75
4.00	89	86	85	87	85	84	84	83	82	76
5.00	89	88	86	88	86	85	85	84	83	77
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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MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

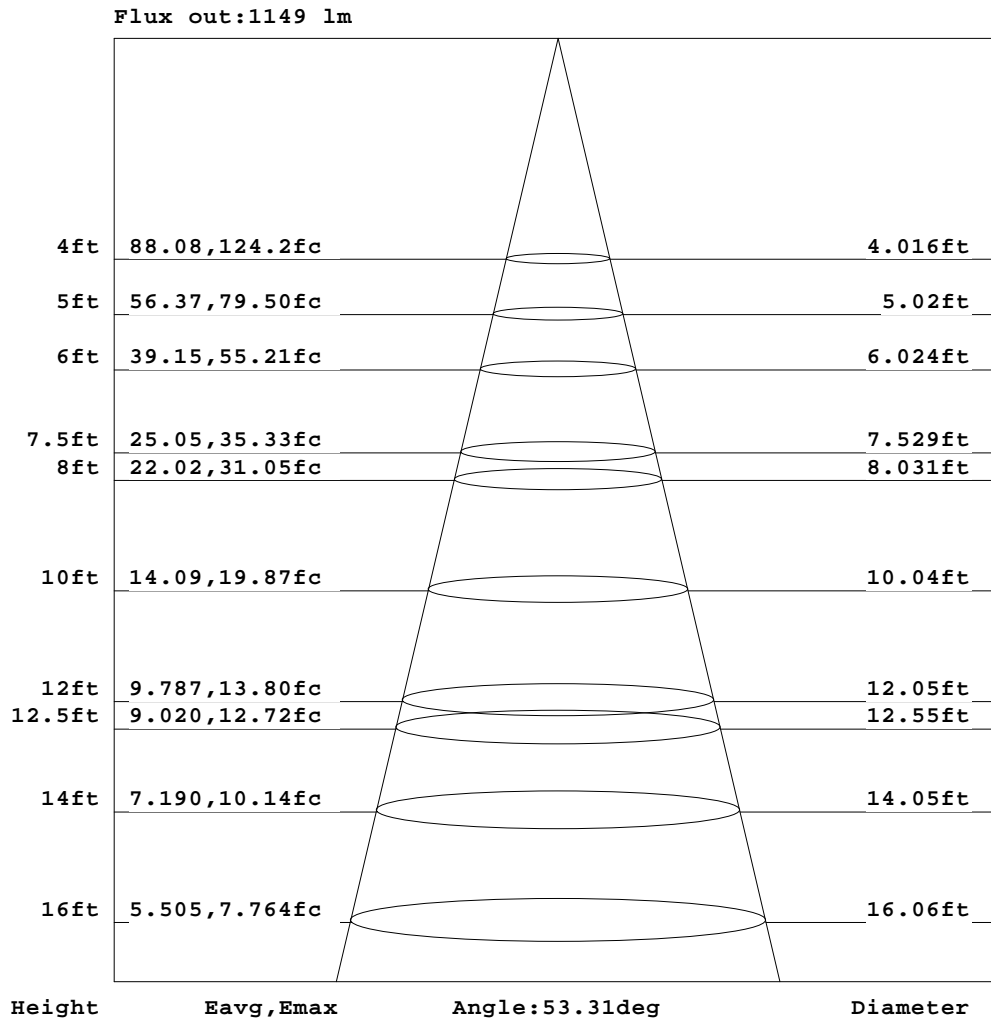


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AAI Figure

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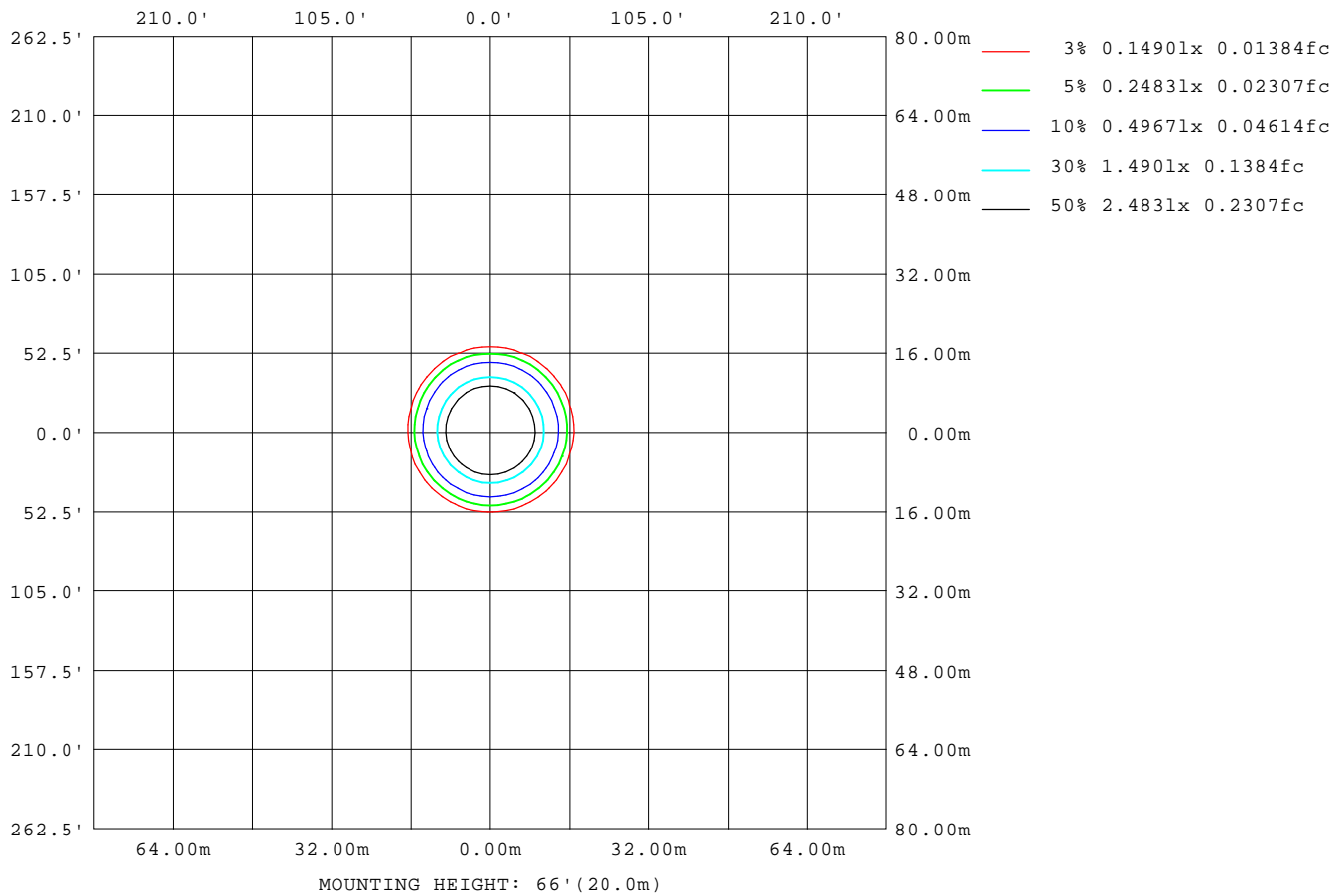
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2307140902
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:



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Operators:zoe
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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-1083C 50R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

LED Avg.L Report

Test:U:120.25V I:0.1622A P:19.392W PF:0.9933 Freq:59.98Hz Lamp Flux:2011.9x1 lm		
NAME: 2118.192-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307140902
MFR.: RISE	SUR.: 0.0063585m2	Shielding Angle:

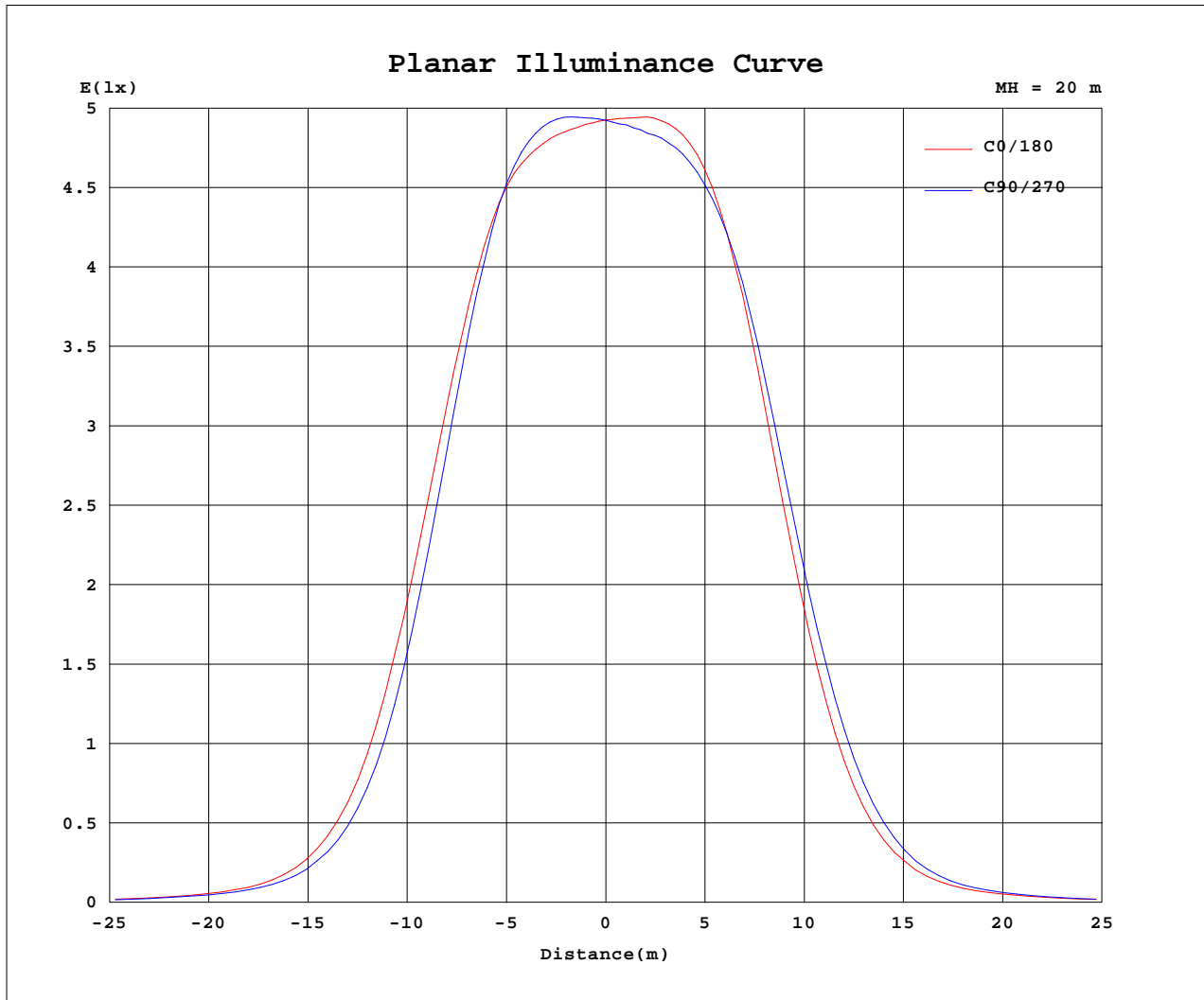
AvgL	cd/m2
L_0~180(65)av	2152
L_0~180(75)av	915
L_0~180(85)av	640
L_90~270(65)av	1583
L_90~270(75)av	736
L_90~270(85)av	264
L_45(65)av	1964
L_45(75)av	814
L_45(85)av	369

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-7-14

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:BXRE-30G1000-A-83 Ra:90
LENS:PM-1083C 50R
DRIVER: PUP20A-1WMC 500mA
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: 2023-7-14

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: BXRE-30G1000-A-83 Ra: 90
LENS: PM-1083C 50R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.25V I:0.1622A P:19.392W PF:0.9933 Freq:59.98Hz Lamp Flux:2011.9x1 lm		
NAME: 2118.192-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2307140902
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	1970	1970	1970	1970	1970	1970	1970	1970	1970	1970	1970	1970						
5	1968	1981	1994	2001	2008	2008	1999	1987	1978	1969	1964	1964						
10	1985	2010	2032	2028	2053	2054	2040	2023	2014	1990	1990	1982						
15	1956	1964	1964	1953	1988	2003	1998	1992	2003	1968	1983	1959						
20	1714	1680	1620	1611	1627	1689	1735	1766	1818	1790	1800	1741						
25	1236	1167	1082	1057	1070	1137	1212	1274	1355	1344	1342	1276						
30	691	625	559	538	551	604	659	724	799	793	799	743						
35	307	275	242	233	239	263	288	326	373	369	372	342						
40	128	116	105	103	104	112	119	134	153	151	152	143						
45	65.1	60.4	56.9	55.9	56.4	59.1	61.3	66.0	72.5	73.1	72.6	70.1						
50	37.7	36.1	34.1	33.6	34.5	36.2	36.5	37.7	39.5	39.1	39.9	39.2						
55	20.9	20.9	18.9	18.5	19.8	21.4	21.1	21.0	20.4	19.5	20.9	21.3						
60	10.1	10.1	8.92	8.48	9.19	10.2	9.95	9.89	9.24	8.82	9.24	9.89						
65	5.80	5.84	4.64	4.28	4.81	5.82	5.76	5.68	4.72	4.23	4.83	5.65						
70	2.29	2.33	1.98	2.00	2.03	2.43	2.39	2.22	1.65	1.60	1.63	2.12						
75	1.46	1.45	1.35	1.29	1.40	1.55	1.55	1.34	1.19	1.13	1.17	1.28						
80	0.88	0.79	0.68	0.64	0.71	0.85	0.92	0.74	0.61	0.58	0.61	0.74						
85	0.36	0.26	0.17	0.16	0.19	0.29	0.35	0.23	0.15	0.13	0.15	0.24						
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
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Operators:zoe
Test Date:2023-7-14

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