

Luminaire Photograph



Light Output Ratio:	85.3%	
Luminaire Power:	7.008 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: 2025-3-1

Range: 0 - 180DEG
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: BXRH-30H0600-A-83 Ra: 97
LENS: PM-1117 15R
NOT DRIVER: 48V
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

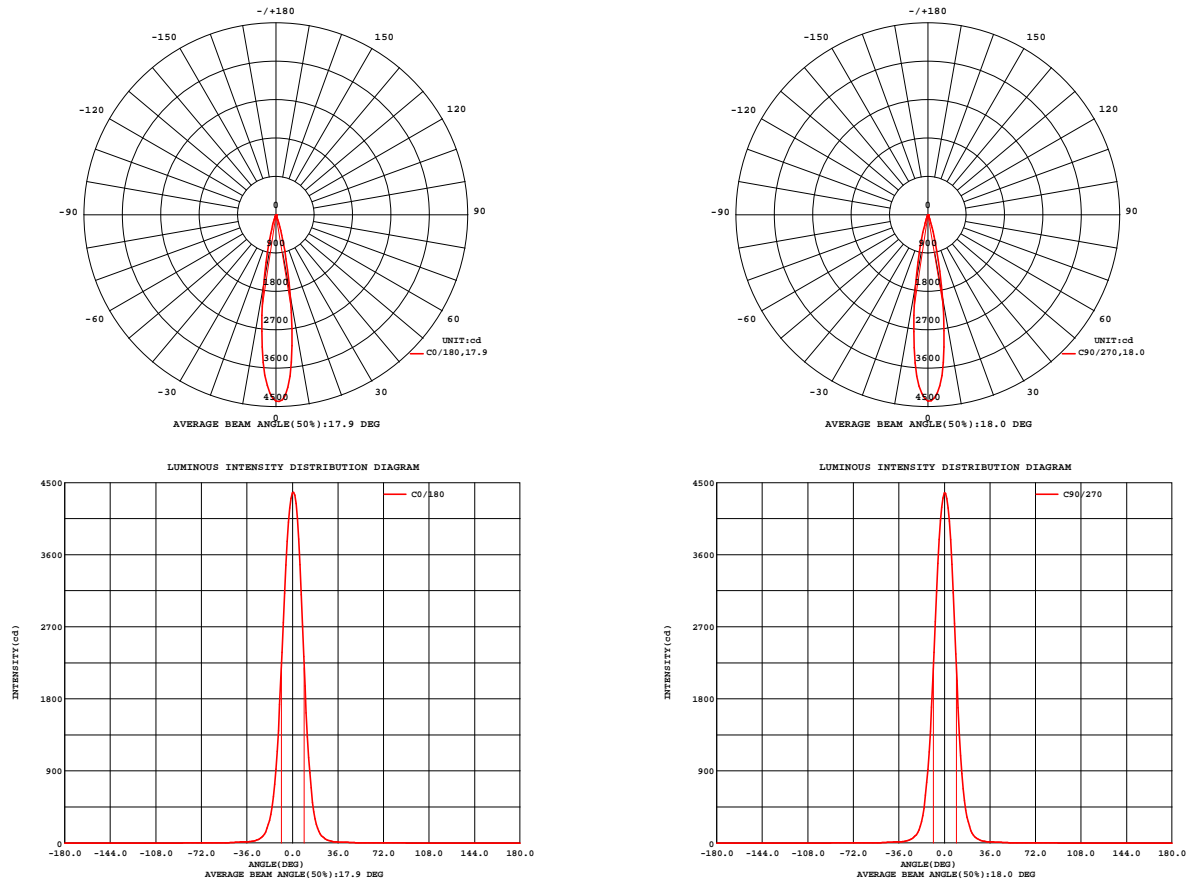


Fig. C0/C180

Fig. C90/C270

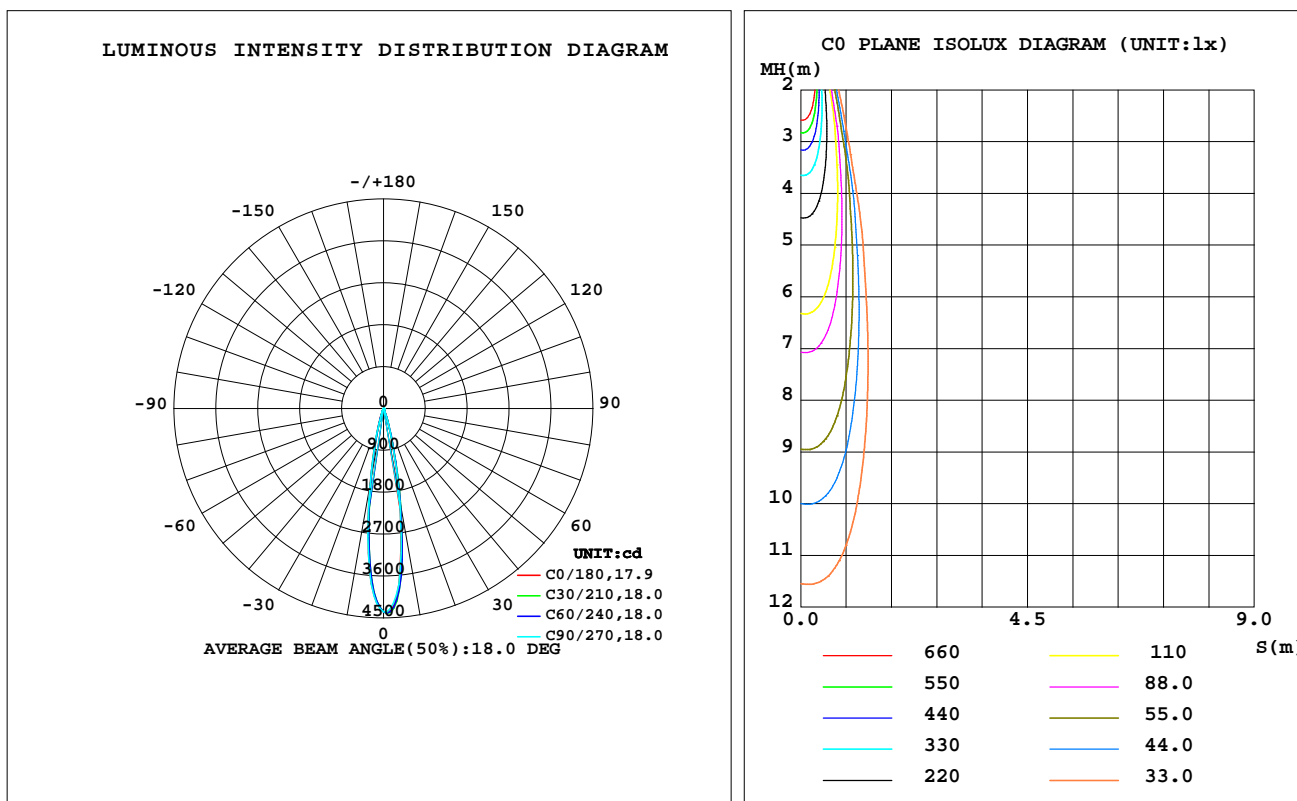
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:47.997V I:0.1460A P:7.0076W PF:1.0000 Freq:49.99Hz Lamp Flux:620.3x1 lm		
NAME: OZ48-SA-33	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2503010133
MFR.: RISE	SUR.: 0.000754385m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 75.53 lm/W			
MODEL	Brideglux	I _{max} (cd)	4402	S/MH(C0/180)	0.30
NOMINAL POWER(W)	7	LOR(%)	85.3	S/MH(C90/270)	0.30
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	529.28	UP,DN(C0-180)	0.0,43.7
NOMINAL FLUX(lm)	620.3	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,41.6
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	48	down(%)	85.3	CIBSE SHR MAX	0.30



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	1962	2136	2024	1649	1728	1606	1696	2049	0- 10	285.9	285.9	54,46.1
20	184.2	208.9	208.1	158.2	184.4	162.9	163.8	205.6	10- 20	192.9	478.8	90.5,77.2
30	25.11	26.32	26.23	23.85	26.13	23.96	24.74	27.20	20- 30	32.51	511.3	96.6,82.4
40	10.78	10.87	11.76	12.20	13.36	13.46	12.55	11.62	30- 40	9.828	521.2	98.5,84
50	3.871	3.996	4.106	3.228	3.815	3.618	3.738	4.376	40- 50	6.293	527.5	99.7,85
60	0.5656	0.4827	0.8052	0.8342	0.8974	0.8716	0.6779	0.7233	50- 60	1.258	528.7	99.9,85.2
70	0.1848	0.1159	0.0787	0.0203	0.0243	0.0237	0.0361	0.3631	60- 70	0.5403	529.3	100,85.3
80	0.0083	0.0003	0.0084	0.0013	0.0064	0.0000	0.0090	0.0014	70- 80	0.0169	529.3	100,85.3
90	0	0	0	0	0	0	0	0	80- 90	0.0017	529.3	100,85.3
100	0	0	0	0	0	0	0	0	90-100	0	529.3	100,85.3
110	0	0	0	0	0	0	0	0	100-110	0	529.3	100,85.3
120	0	0	0	0	0	0	0	0	110-120	0	529.3	100,85.3
130	0	0	0	0	0	0	0	0	120-130	0	529.3	100,85.3
140	0	0	0	0	0	0	0	0	130-140	0	529.3	100,85.3
150	0	0	0	0	0	0	0	0	140-150	0	529.3	100,85.3
160	0	0	0	0	0	0	0	0	150-160	0	529.3	100,85.3
170	0	0	0	0	0	0	0	0	160-170	0	529.3	100,85.3
180	0	0	0	0	0	0	0	0	170-180	0	529.3	100,85.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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 30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:47.997V I:0.1460A P:7.0076W PF:1.0000 Freq:49.99Hz
Lamp Flux:620.3x1 lm

NAME: OZ48-SA-33

TYPE:

WEIGHT:

SPEC.: 3000K

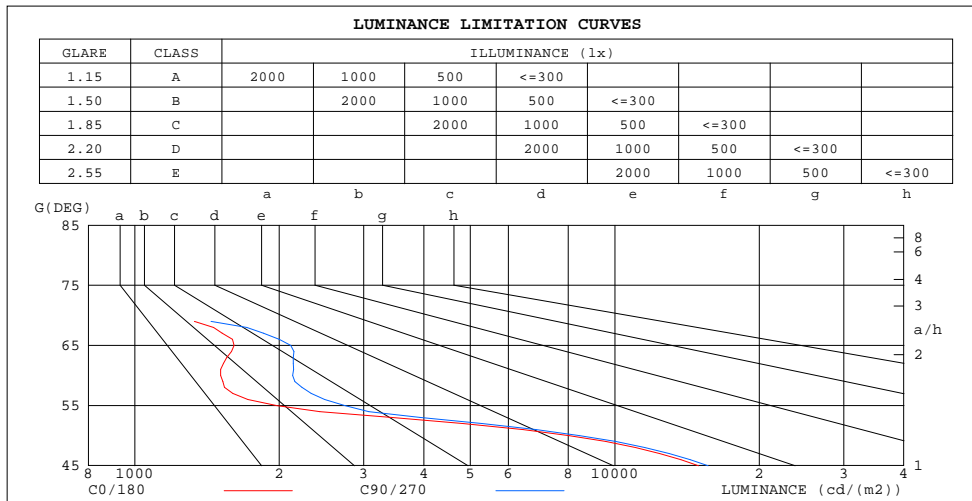
DIM.:

SERIAL No.: 2503010133

MFR.: RISE

SUR.: 0.000754385m2

Shielding Angle:



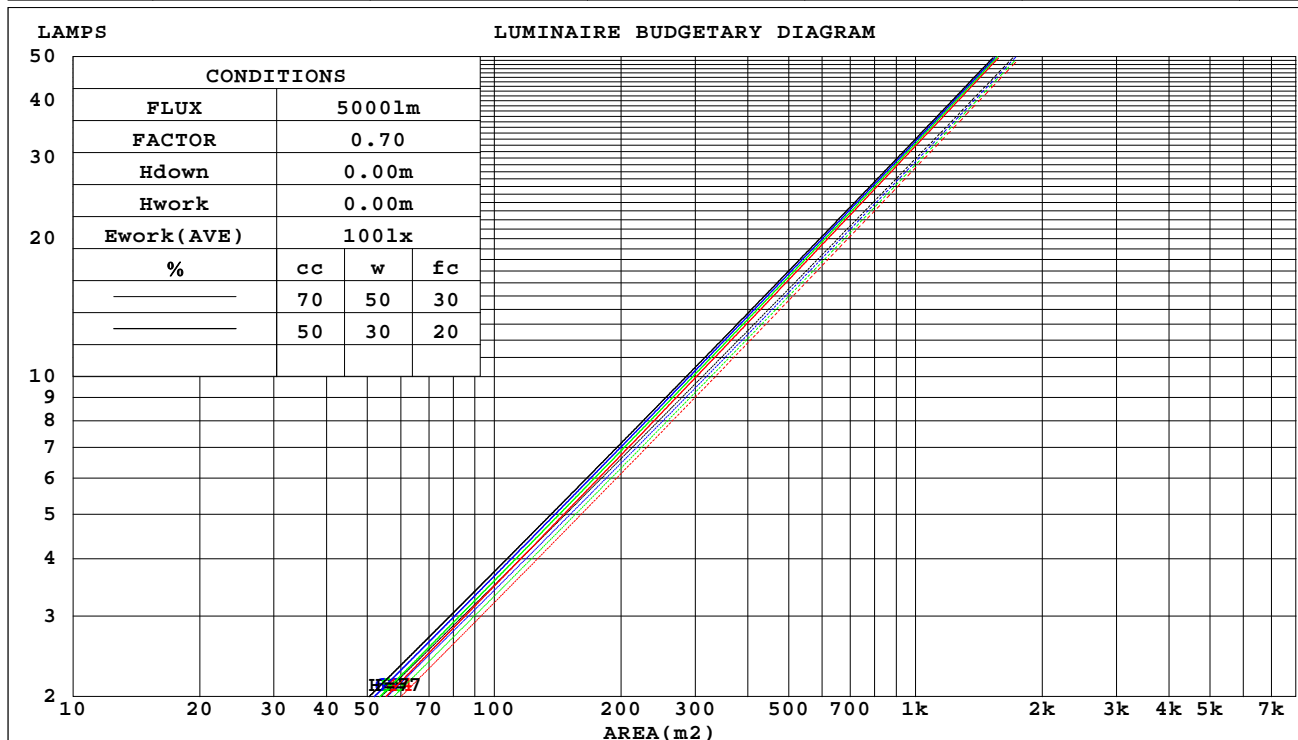
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2503010133
MFR.: RISE	SUR.: 0.000754385m2	Shielding Angle:

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.02	1.02	1.02	.99	.99	.99	.95	.95	.95	.91	.91	.91	.87	.87	.87	.85
1.0	.97	.96	.94	.95	.94	.93	.92	.91	.90	.89	.88	.87	.86	.85	.85	.83
2.0	.93	.91	.89	.92	.90	.88	.89	.88	.86	.87	.86	.84	.85	.84	.83	.82
3.0	.90	.87	.85	.89	.86	.84	.87	.85	.83	.85	.83	.82	.83	.82	.81	.80
4.0	.87	.84	.82	.86	.84	.82	.85	.82	.81	.83	.81	.80	.82	.80	.79	.78
5.0	.85	.82	.80	.84	.81	.79	.83	.80	.79	.82	.80	.78	.80	.79	.77	.77
6.0	.83	.80	.77	.82	.79	.77	.81	.79	.77	.80	.78	.76	.79	.77	.76	.75
7.0	.81	.78	.76	.80	.77	.75	.79	.77	.75	.79	.76	.75	.78	.76	.74	.74
8.0	.79	.76	.74	.79	.76	.74	.78	.75	.74	.77	.75	.73	.77	.75	.73	.72
9.0	.77	.75	.73	.77	.74	.72	.76	.74	.72	.76	.74	.72	.75	.73	.72	.71
10.0	.76	.73	.71	.76	.73	.71	.75	.73	.71	.75	.72	.71	.74	.72	.71	.70



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WEC AND CCEC

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NAME: OZ48-SA-33	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2503010133
MFR.: RISE	SUR.: 0.000754385m2	Shielding Angle:

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)															
0.0																
1.0	.104	.059	.019	.098	.056	.018	.088	.050	.016	.078	.045	.014	.069	.040	.013	
2.0	.095	.052	.016	.091	.050	.015	.082	.046	.014	.074	.042	.013	.067	.038	.012	
3.0	.088	.047	.014	.084	.045	.014	.077	.042	.013	.070	.039	.012	.064	.036	.011	
4.0	.081	.042	.012	.078	.041	.012	.072	.038	.011	.067	.036	.011	.062	.034	.010	
5.0	.076	.039	.011	.073	.038	.011	.068	.036	.010	.064	.034	.010	.059	.032	.010	
6.0	.071	.036	.010	.069	.035	.010	.065	.033	.010	.061	.032	.009	.057	.030	.009	
7.0	.067	.033	.009	.065	.033	.009	.062	.031	.009	.058	.030	.009	.055	.029	.008	
8.0	.064	.031	.009	.062	.031	.009	.059	.029	.008	.056	.028	.008	.053	.027	.008	
9.0	.060	.029	.008	.059	.029	.008	.056	.028	.008	.054	.027	.008	.051	.026	.008	
10.0	.058	.028	.008	.056	.027	.008	.054	.026	.007	.052	.026	.007	.049	.025	.007	

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.163	.163	.163	.139	.139	.139	.095	.095	.095	.054	.054	.054	.017	.017	.017	
1.0	.143	.135	.127	.122	.116	.110	.084	.080	.076	.048	.046	.044	.015	.015	.014	
2.0	.126	.113	.102	.108	.098	.088	.074	.067	.062	.043	.039	.036	.014	.013	.012	
3.0	.113	.097	.084	.097	.083	.072	.066	.058	.051	.038	.034	.030	.012	.011	.010	
4.0	.101	.083	.069	.087	.072	.060	.060	.050	.042	.035	.029	.025	.011	.010	.008	
5.0	.092	.073	.058	.079	.063	.051	.054	.044	.036	.031	.026	.021	.010	.008	.007	
6.0	.084	.064	.049	.072	.055	.043	.050	.039	.030	.029	.023	.018	.009	.007	.006	
7.0	.077	.057	.042	.066	.049	.037	.046	.034	.026	.027	.020	.016	.009	.007	.005	
8.0	.071	.051	.037	.061	.044	.032	.042	.031	.023	.025	.018	.013	.008	.006	.004	
9.0	.066	.046	.032	.057	.040	.028	.039	.028	.020	.023	.016	.012	.007	.005	.004	
10.0	.061	.041	.028	.053	.036	.024	.037	.025	.017	.021	.015	.010	.007	.005	.003	

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30minutes warm-up

UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2503010133		
MFR.: RISE					SUR.: 0.000754385m2			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	10.3	10.8	10.5	11.0	11.1	10.5	11.0	10.7	11.2	11.3
3H	10.2	10.7	10.4	10.9	11.1	10.4	10.9	10.6	11.1	11.3
4H	10.1	10.6	10.4	10.8	11.0	10.3	10.8	10.6	11.0	11.2
6H	10.0	10.5	10.3	10.7	11.0	10.3	10.7	10.5	10.9	11.2
8H	10.0	10.5	10.3	10.7	10.9	10.2	10.7	10.5	10.9	11.1
12H	10.0	10.4	10.3	10.6	10.9	10.2	10.6	10.5	10.9	11.1
4H 2H	10.1	10.6	10.4	10.8	11.0	10.3	10.8	10.6	11.0	11.2
3H	10.0	10.4	10.3	10.7	11.0	10.2	10.6	10.5	10.9	11.2
4H	9.9	10.3	10.2	10.6	10.9	10.1	10.5	10.4	10.8	11.1
6H	9.8	10.2	10.2	10.5	10.8	10.0	10.4	10.4	10.7	11.0
8H	9.7	10.1	10.1	10.4	10.8	9.9	10.3	10.3	10.6	11.0
12H	9.7	10.0	10.1	10.4	10.7	9.9	10.2	10.3	10.6	10.9
8H 4H	9.7	10.1	10.1	10.4	10.8	9.9	10.3	10.3	10.6	11.0
6H	9.6	9.9	10.0	10.3	10.7	9.8	10.1	10.2	10.5	10.9
8H	9.6	9.8	10.0	10.2	10.7	9.8	10.0	10.2	10.4	10.9
12H	9.5	9.7	10.0	10.2	10.6	9.7	9.9	10.2	10.4	10.8
12H 4H	9.7	10.0	10.1	10.4	10.7	9.9	10.2	10.3	10.6	10.9
6H	9.6	9.8	10.0	10.2	10.7	9.8	10.0	10.2	10.4	10.9
8H	9.5	9.7	10.0	10.2	10.6	9.7	9.9	10.2	10.4	10.8
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.9 / - 9.1					+ 2.7 / - 8.3				
1.5H	+ 2.1 / -11.1					+ 2.3 / -10.8				
2.0H	+ 6.2 / - 9.2					+ 6.3 / - 9.2				

CIE Pub.117, 620.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.7)
Area: 0.000754385 m2

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UTILIZATION FACTORS TABLE

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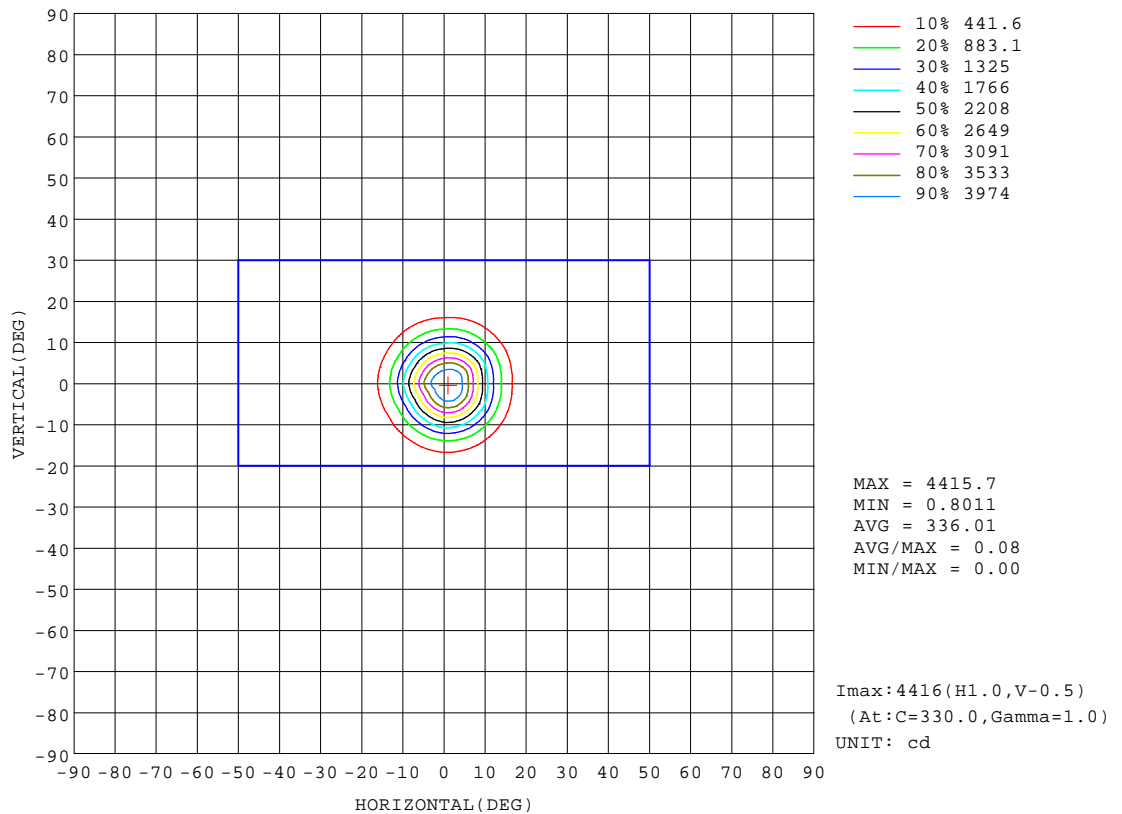
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	77	72	69	77	72	69	76	72	69	67
0.80	83	79	76	83	79	76	82	78	76	73
1.00	87	82	79	86	82	79	85	82	79	76
1.25	90	86	83	89	85	83	87	84	82	79
1.50	92	88	86	91	87	85	89	86	84	81
2.00	94	90	88	92	90	87	90	88	86	82
2.50	95	92	90	94	91	89	91	89	87	82
3.00	96	93	91	95	92	90	92	90	88	83
4.00	98	96	94	96	94	93	93	92	90	84
5.00	99	97	96	97	95	94	94	93	92	85
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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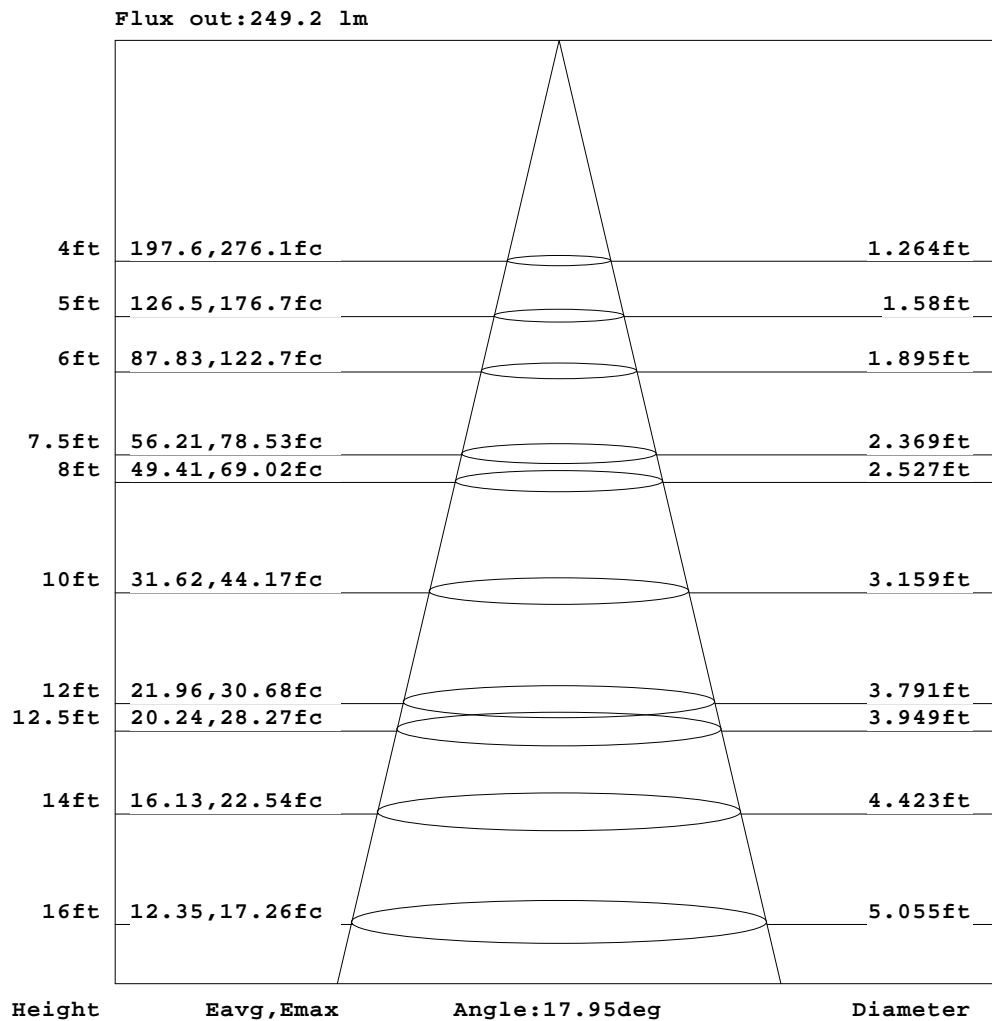


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AAI Figure

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

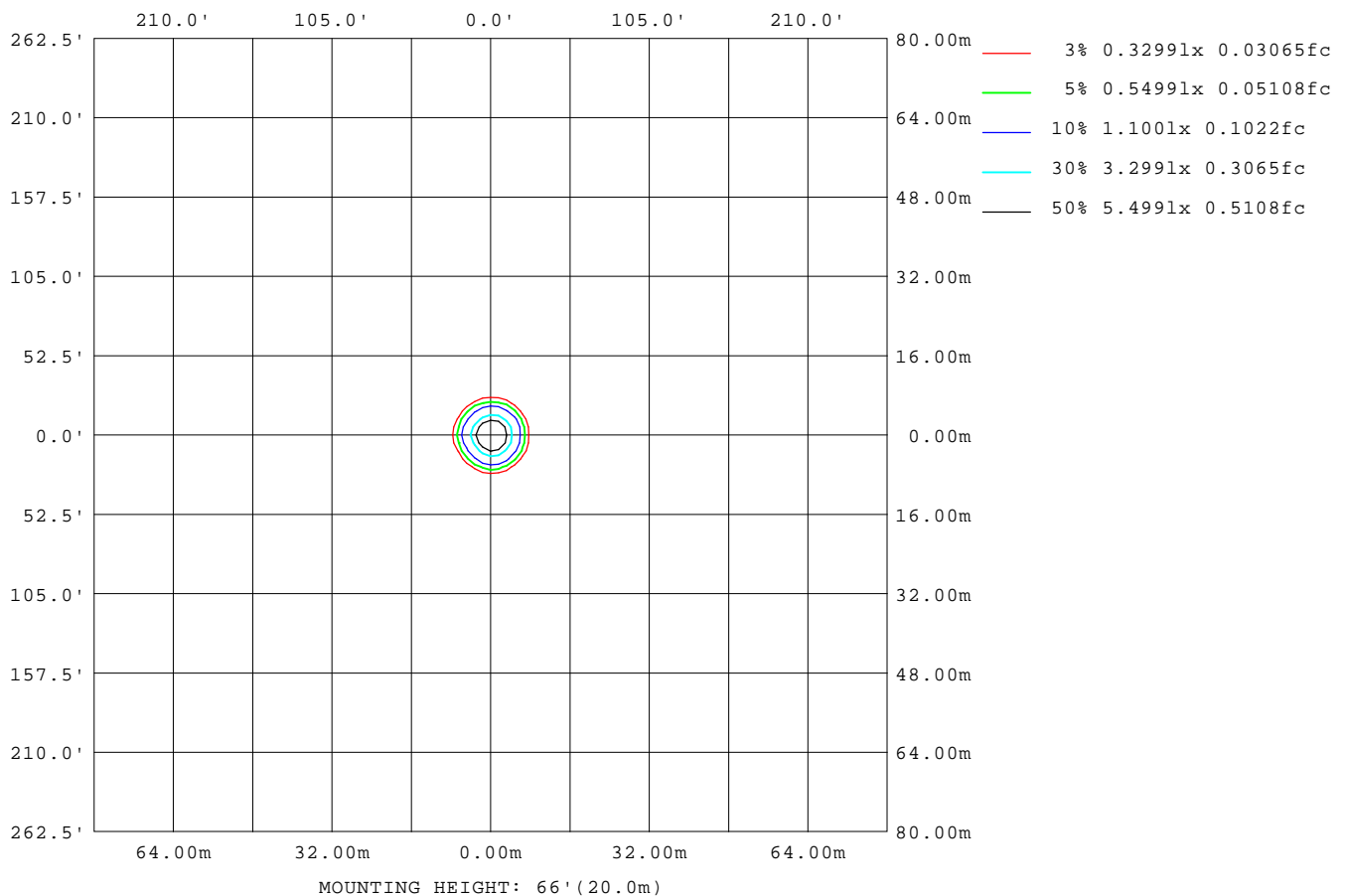
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C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2025-3-1

Range: 0 - 180DEG
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:BXRH-30H0600-A-83 Ra:97
LENS:PM-1117 15R
NOT DRIVER:48V
30minutes warm-up



ISOLUX DIAGRAM

Test:U:47.997V I:0.1460A P:7.0076W PF:1.0000 Freq:49.99Hz Lamp Flux:620.3x1 lm		
NAME: OZ48-SA-33	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2503010133
MFR.: RISE	SUR.: 0.000754385m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2025-3-1

Range: 0 - 180DEG
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: BXRH-30H0600-A-83 Ra: 97
LENS: PM-1117 15R
NOT DRIVER: 48V
30minutes warm-up

LED Avg.L Report

Test:U:47.997V I:0.1460A P:7.0076W PF:1.0000 Freq:49.99Hz Lamp Flux:620.3x1 lm		
NAME: OZ48-SA-33	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2503010133
MFR.: RISE	SUR.: 0.000754385m2	Shielding Angle:

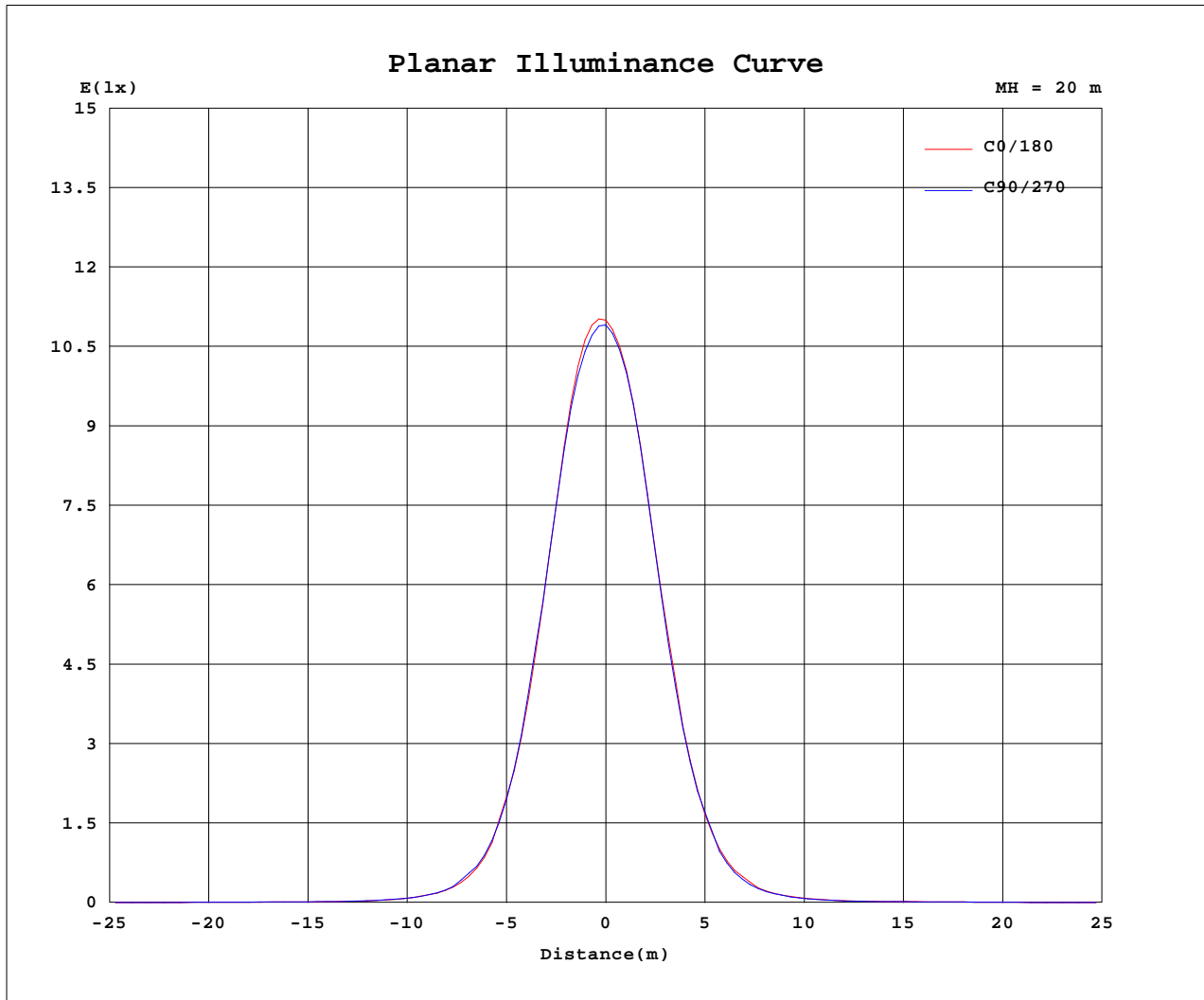
AvgL	cd/m2
L_0~180(65)av	1963
L_0~180(75)av	73
L_0~180(85)av	63
L_90~270(65)av	1925
L_90~270(75)av	62
L_90~270(85)av	101
L_45(65)av	1842
L_45(75)av	37
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2025-3-1

Range: 0 - 180DEG
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:BXRH-30H0600-A-83 Ra:97
LENS:PM-1117 15R
NOT DRIVER:48V
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: 2025-3-1

Range: 0 - 180DEG
 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: BXRH-30H0600-A-83 Ra: 97
 LENS: PM-1117 15R
 NOT DRIVER: 48V
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:47.997V I:0.1460A P:7.0076W PF:1.0000 Freq:49.99Hz Lamp Flux:620.3x1 lm		
NAME: OZ48-SA-33	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2503010133
MFR.: RISE	SUR.: 0.000754385m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	4368	4368	4368	4368	4368	4368	4368	4368	4368	4368	4368	4368						
5	3796	3913	3905	3787	3533	3343	3472	3363	3377	3489	3734	3935						
10	1962	2149	2122	2024	1732	1565	1728	1594	1618	1696	1955	2143						
15	691	730	767	678	606	512	578	534	548	596	676	785						
20	184	216	202	208	166	151	184	162	164	164	204	207						
25	64.3	65.6	68.8	64.4	57.6	54.6	61.0	57.3	57.5	57.3	62.4	69.4						
30	25.1	26.5	26.1	26.2	24.1	23.6	26.1	23.9	24.0	24.7	26.9	27.5						
35	13.1	13.3	13.6	14.1	14.3	14.9	15.8	15.5	15.0	14.6	14.6	14.1						
40	10.8	10.7	11.0	11.8	12.0	12.4	13.4	13.7	13.2	12.5	11.9	11.3						
45	7.91	8.12	8.11	8.36	7.89	7.82	8.89	8.88	8.73	8.50	8.67	8.57						
50	3.87	4.04	3.95	4.11	3.35	3.11	3.81	3.60	3.63	3.74	4.27	4.48						
55	0.85	0.77	0.81	1.19	0.95	1.00	1.08	1.05	0.99	0.92	1.06	1.02						
60	0.57	0.45	0.51	0.81	0.79	0.88	0.90	0.91	0.83	0.68	0.79	0.66						
65	0.51	0.37	0.36	0.67	0.65	0.67	0.74	0.74	0.68	0.55	0.67	0.59						
70	0.18	0.12	0.11	0.08	0.02	0.02	0.02	0.02	0.02	0.04	0.34	0.39						
75	0.02	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01						
80	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00						
85	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	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
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Operators:zoe
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