

Luminaire Photograph



Light Output Ratio:	47.7%	
Luminaire Power:	14.54 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: 2025-1-10

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: BXRE-30H1000-A-83 Ra: 95
LENS: PM-1100 24R
NOT DRIVER: 48V
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

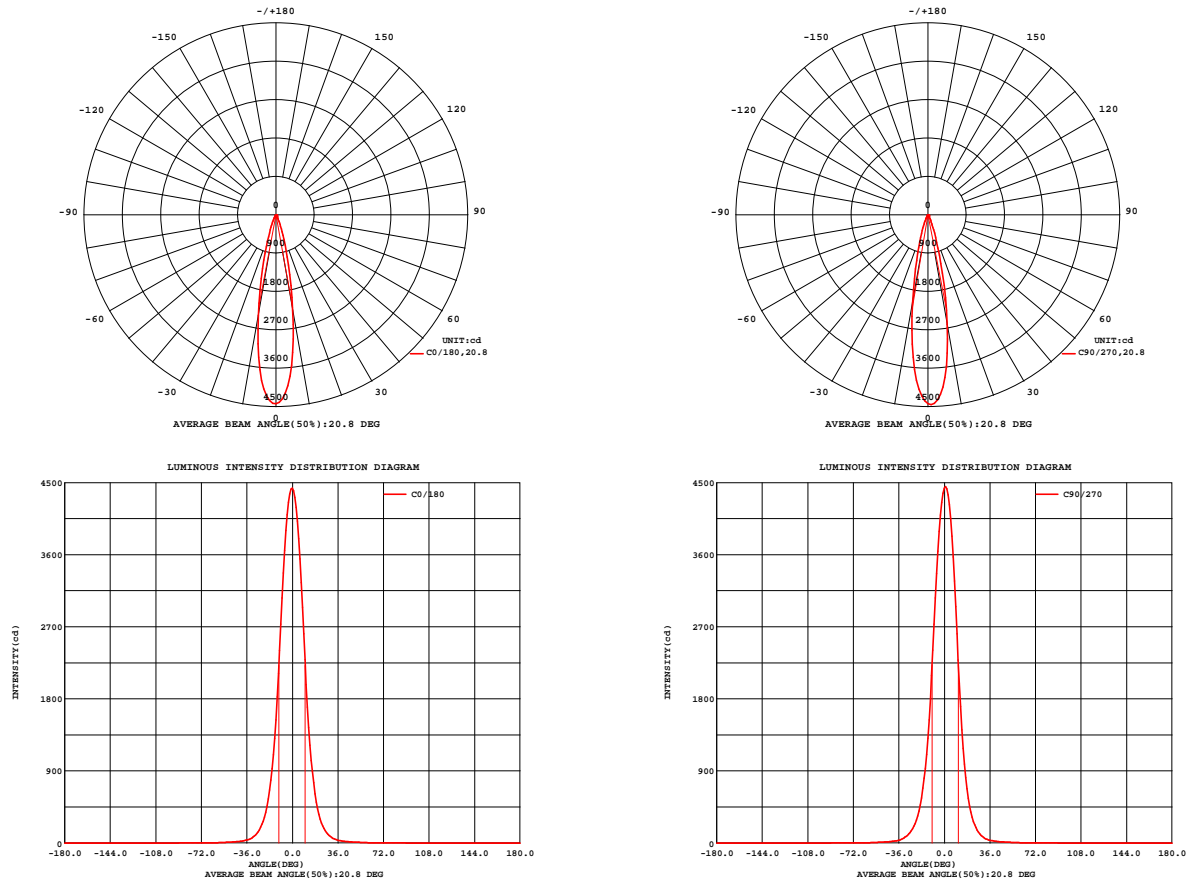


Fig. C0/C180

Fig. C90/C270

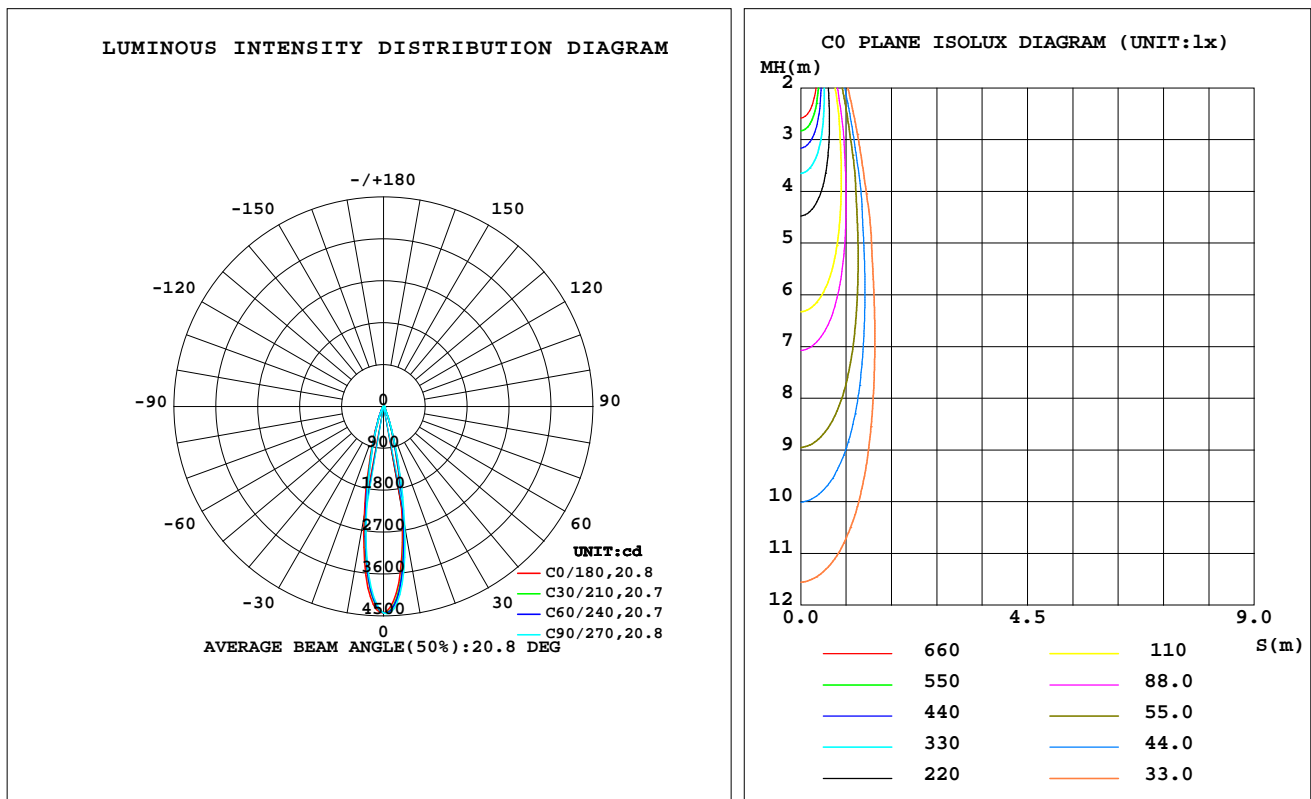
C Range: 0 - 360DEG
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Test Speed: HIGH
Temperature: 25.3 °C
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:47.997V I:0.3030A P:14.543W PF:1.0000 Freq:0Hz Lamp Flux:1597.41x1 lm		
NAME: OZ48-SBZ-64	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2501100049
MFR.: RISE	SUR.: 0.00246176m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 52.44 lm/W			
MODEL	Brideglux	I _{max} (cd)	4450	S/MH(C0/180)	0.36
NOMINAL POWER(W)	15	LOR(%)	47.7	S/MH(C90/270)	0.33
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	762.62	UP,DN(C0-180)	0.0,25.0
NOMINAL FLUX(lm)	1597.41	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,22.7
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	48	down(%)	47.7	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	2288	2462	2613	2598	2403	2205	2094	2125	0- 10	317.4	317.4	41.6,19.9
20	425.6	446.1	462.0	472.4	459.0	414.1	397.8	402.7	10- 20	305.5	622.9	81.7,39
30	82.45	83.17	80.73	83.13	84.63	85.28	83.76	80.66	20- 30	92.07	715.0	93.8,44.8
40	23.08	23.19	22.79	22.61	23.78	23.04	22.54	21.90	30- 40	27.14	742.1	97.3,46.5
50	10.25	10.36	10.22	9.784	10.03	9.644	9.764	9.782	40- 50	11.60	753.7	98.8,47.2
60	3.663	3.776	3.640	3.356	3.361	3.176	3.374	3.487	50- 60	5.651	759.4	99.6,47.5
70	1.216	1.243	1.161	1.090	1.108	1.044	1.145	1.146	60- 70	2.063	761.4	99.8,47.7
80	0.6110	0.5753	0.5402	0.5132	0.5451	0.5349	0.5526	0.5757	70- 80	0.7660	762.2	99.9,47.7
90	0	0	0	0	0	0	0	0	80- 90	0.4192	762.6	100,47.7
100	0	0	0	0	0	0	0	0	90-100	0	762.6	100,47.7
110	0	0	0	0	0	0	0	0	100-110	0	762.6	100,47.7
120	0	0	0	0	0	0	0	0	110-120	0	762.6	100,47.7
130	0	0	0	0	0	0	0	0	120-130	0	762.6	100,47.7
140	0	0	0	0	0	0	0	0	130-140	0	762.6	100,47.7
150	0	0	0	0	0	0	0	0	140-150	0	762.6	100,47.7
160	0	0	0	0	0	0	0	0	150-160	0	762.6	100,47.7
170	0	0	0	0	0	0	0	0	160-170	0	762.6	100,47.7
180	0	0	0	0	0	0	0	0	170-180	0	762.6	100,47.7
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LENS:PM-1100 24R
NOT DRIVER:48V
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:47.997V I:0.3030A P:14.543W PF:1.0000 Freq:0Hz
Lamp Flux:1597.41x1 lm

NAME: OZ48-SBZ-64

TYPE:

WEIGHT:

SPEC.: 3000K

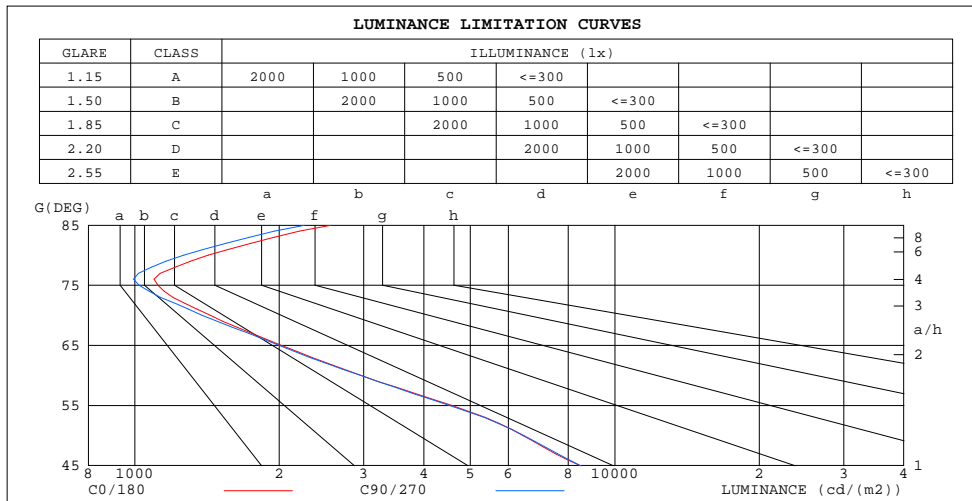
DIM.:

SERIAL No.: 2501100049

MFR.: RISE

SUR.: 0.00246176m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	2554	2254
80	1422	1265
75	1118	1020
70	1436	1381
65	2020	2000
60	2959	2961
55	4589	4534
50	6443	6466
45	8479	8487

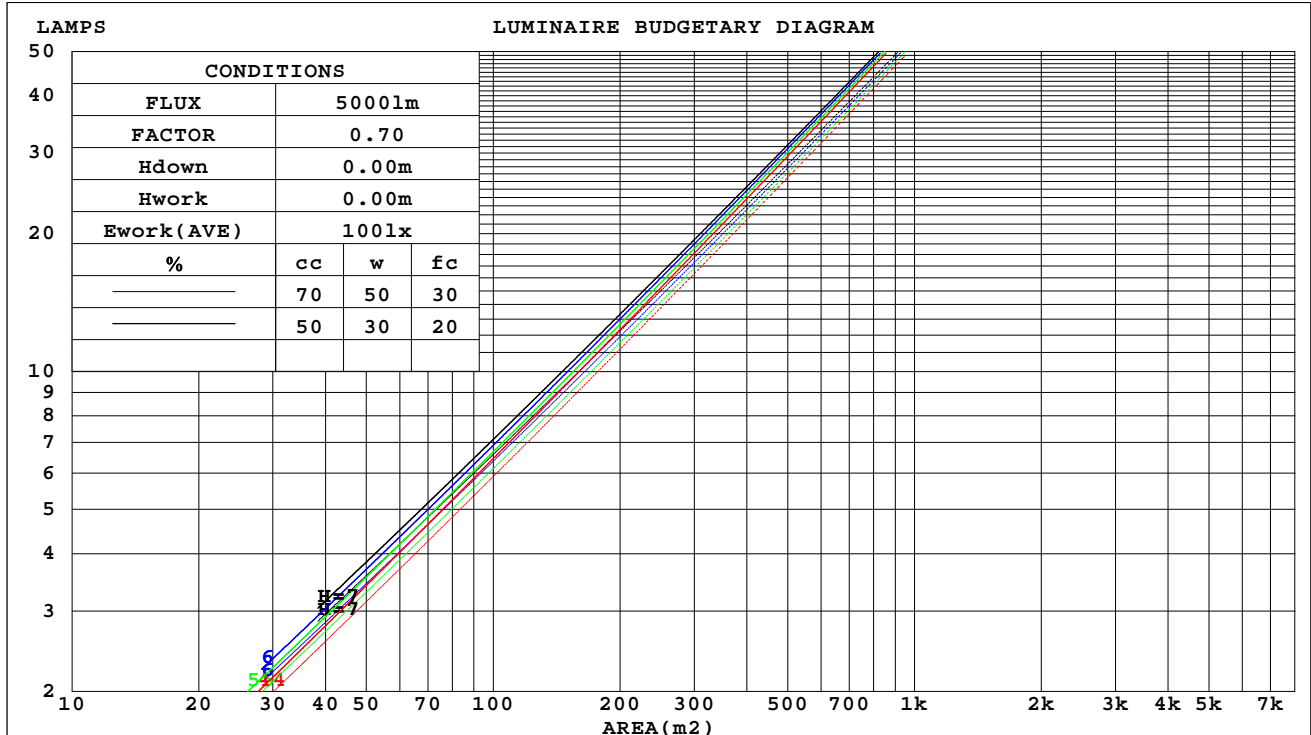
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2501100049
MFR.: RISE	SUR.: 0.00246176m2	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	.57	.57	.57	.56	.56	.56	.53	.53	.53	.51	.51	.51	.49	.49	.49	.48
1.0	.54	.53	.52	.53	.52	.51	.51	.50	.50	.49	.49	.48	.48	.47	.47	.46
2.0	.51	.50	.49	.51	.49	.48	.49	.48	.47	.48	.47	.46	.47	.46	.45	.45
3.0	.49	.48	.46	.49	.47	.46	.48	.46	.45	.46	.45	.45	.45	.45	.44	.43
4.0	.48	.46	.44	.47	.45	.44	.46	.45	.44	.45	.44	.43	.44	.43	.43	.42
5.0	.46	.44	.43	.45	.44	.42	.45	.43	.42	.44	.43	.42	.43	.42	.41	.41
6.0	.44	.42	.41	.44	.42	.41	.43	.42	.41	.43	.41	.40	.42	.41	.40	.40
7.0	.43	.41	.40	.43	.41	.40	.42	.41	.40	.42	.40	.39	.41	.40	.39	.39
8.0	.42	.40	.39	.42	.40	.39	.41	.40	.38	.41	.39	.38	.40	.39	.38	.38
9.0	.41	.39	.38	.41	.39	.38	.40	.39	.37	.40	.38	.37	.40	.38	.37	.37
10.0	.40	.38	.37	.40	.38	.37	.39	.38	.37	.39	.38	.36	.39	.37	.36	.36



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30minutes warm-up

WEC AND CCEC

Test:U:47.997V I:0.3030A P:14.543W PF:1.0000 Freq:0Hz Lamp Flux:1597.4lx1 lm		
NAME: OZ48-SBZ-64	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2501100049
MFR.: RISE	SUR.: 0.00246176m2	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	.064	.037	.012	.061	.035	.011	.055	.032	.010	.050	.029	.009	.045	.026	.008	
2.0	.060	.033	.010	.057	.031	.010	.052	.029	.009	.048	.027	.008	.043	.025	.008	
3.0	.055	.029	.009	.053	.028	.009	.049	.027	.008	.045	.025	.008	.042	.023	.007	
4.0	.052	.027	.008	.050	.026	.008	.046	.025	.007	.043	.023	.007	.040	.022	.007	
5.0	.049	.025	.007	.047	.024	.007	.044	.023	.007	.041	.022	.007	.039	.021	.006	
6.0	.046	.023	.007	.044	.022	.006	.042	.022	.006	.040	.021	.006	.037	.020	.006	
7.0	.043	.021	.006	.042	.021	.006	.040	.020	.006	.038	.020	.006	.036	.019	.006	
8.0	.041	.020	.006	.040	.020	.006	.038	.019	.005	.037	.019	.005	.035	.018	.005	
9.0	.039	.019	.005	.038	.019	.005	.037	.018	.005	.035	.018	.005	.034	.017	.005	
10.0	.038	.018	.005	.037	.018	.005	.035	.017	.005	.034	.017	.005	.033	.016	.005	

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	.091	.091	.091	.078	.078	.078	.053	.053	.053	.030	.030	.030	.010	.010	.010		
1.0	.080	.075	.071	.069	.065	.061	.047	.044	.042	.027	.026	.024	.009	.008	.008		
2.0	.072	.063	.056	.061	.055	.049	.042	.038	.034	.024	.022	.020	.008	.007	.006		
3.0	.064	.054	.046	.055	.047	.040	.038	.032	.028	.022	.019	.016	.007	.006	.005		
4.0	.058	.047	.038	.050	.040	.033	.034	.028	.023	.020	.016	.014	.006	.005	.005		
5.0	.053	.041	.032	.046	.035	.028	.031	.025	.019	.018	.014	.012	.006	.005	.004		
6.0	.049	.036	.027	.042	.031	.023	.029	.022	.016	.017	.013	.010	.005	.004	.003		
7.0	.045	.032	.023	.039	.028	.020	.027	.019	.014	.016	.011	.008	.005	.004	.003		
8.0	.042	.029	.020	.036	.025	.017	.025	.018	.012	.015	.010	.007	.005	.003	.002		
9.0	.039	.026	.017	.034	.023	.015	.023	.016	.011	.014	.009	.006	.004	.003	.002		
10.0	.037	.024	.015	.032	.021	.013	.022	.015	.009	.013	.009	.006	.004	.003	.002		

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30minutes warm-up

UGR(Unified Glare Rating) Table

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NAME: OZ48-SBZ-64					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2501100049		
MFR.: RISE					SUR.: 0.00246176m2			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	8.5	9.1	8.7	9.3	9.4	8.4	9.0	8.6	9.2	9.3
3H	8.5	9.1	8.8	9.3	9.5	8.4	9.0	8.7	9.2	9.4
4H	8.5	9.1	8.8	9.3	9.5	8.4	9.0	8.7	9.2	9.4
6H	8.5	9.0	8.8	9.3	9.5	8.4	8.9	8.7	9.2	9.4
8H	8.5	9.0	8.8	9.3	9.5	8.4	8.9	8.7	9.2	9.4
12H	8.5	9.0	8.8	9.3	9.6	8.4	8.9	8.7	9.2	9.4
4H 2H	8.5	9.0	8.7	9.2	9.4	8.4	9.0	8.6	9.2	9.4
3H	8.5	9.0	8.8	9.3	9.5	8.4	8.9	8.7	9.2	9.5
4H	8.5	9.0	8.8	9.3	9.6	8.4	8.9	8.8	9.2	9.5
6H	8.5	8.9	8.9	9.3	9.6	8.4	8.8	8.8	9.1	9.5
8H	8.6	8.9	9.0	9.3	9.7	8.4	8.8	8.8	9.2	9.5
12H	8.7	9.0	9.1	9.4	9.8	8.5	8.9	8.9	9.2	9.6
8H 4H	8.4	8.8	8.8	9.1	9.5	8.3	8.7	8.7	9.0	9.4
6H	8.5	8.8	8.9	9.2	9.6	8.4	8.7	8.8	9.1	9.5
8H	8.6	8.8	9.0	9.2	9.7	8.4	8.7	8.9	9.1	9.6
12H	8.7	9.0	9.2	9.4	9.9	8.6	8.8	9.0	9.3	9.7
12H 4H	8.4	8.7	8.8	9.1	9.5	8.3	8.6	8.7	9.0	9.4
6H	8.4	8.7	8.9	9.1	9.6	8.3	8.6	8.8	9.0	9.5
8H	8.6	8.8	9.0	9.2	9.7	8.4	8.7	8.9	9.1	9.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.6 / - 2.4					+ 1.7 / - 2.5				
1.5H	+ 2.3 / - 1.6					+ 2.3 / - 1.7				
2.0H	+ 2.6 / - 2.5					+ 2.6 / - 2.7				

CIE Pub.117, 1597 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.6)
Area: 0.00246176 m2

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UTILIZATION FACTORS TABLE

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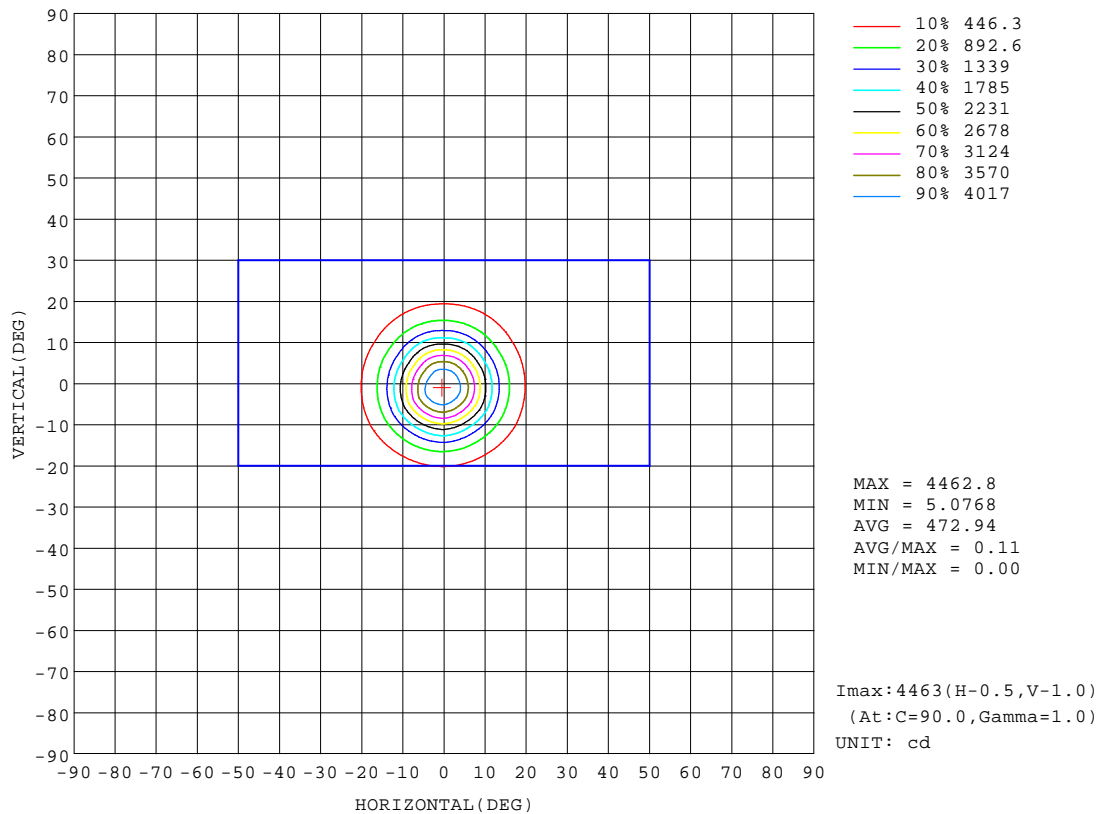
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	43	40	38	43	40	38	42	40	38	37
0.80	46	44	42	46	44	42	45	43	42	40
1.00	48	46	44	48	46	44	47	45	44	42
1.25	50	48	46	49	47	46	49	47	46	44
1.50	51	49	48	51	49	47	50	48	47	45
2.00	52	50	49	52	50	49	50	49	48	45
2.50	53	51	50	52	51	50	51	50	49	46
3.00	54	52	51	53	51	50	51	50	49	46
4.00	55	53	52	54	53	52	52	51	50	47
5.00	55	54	53	54	53	53	52	52	51	48
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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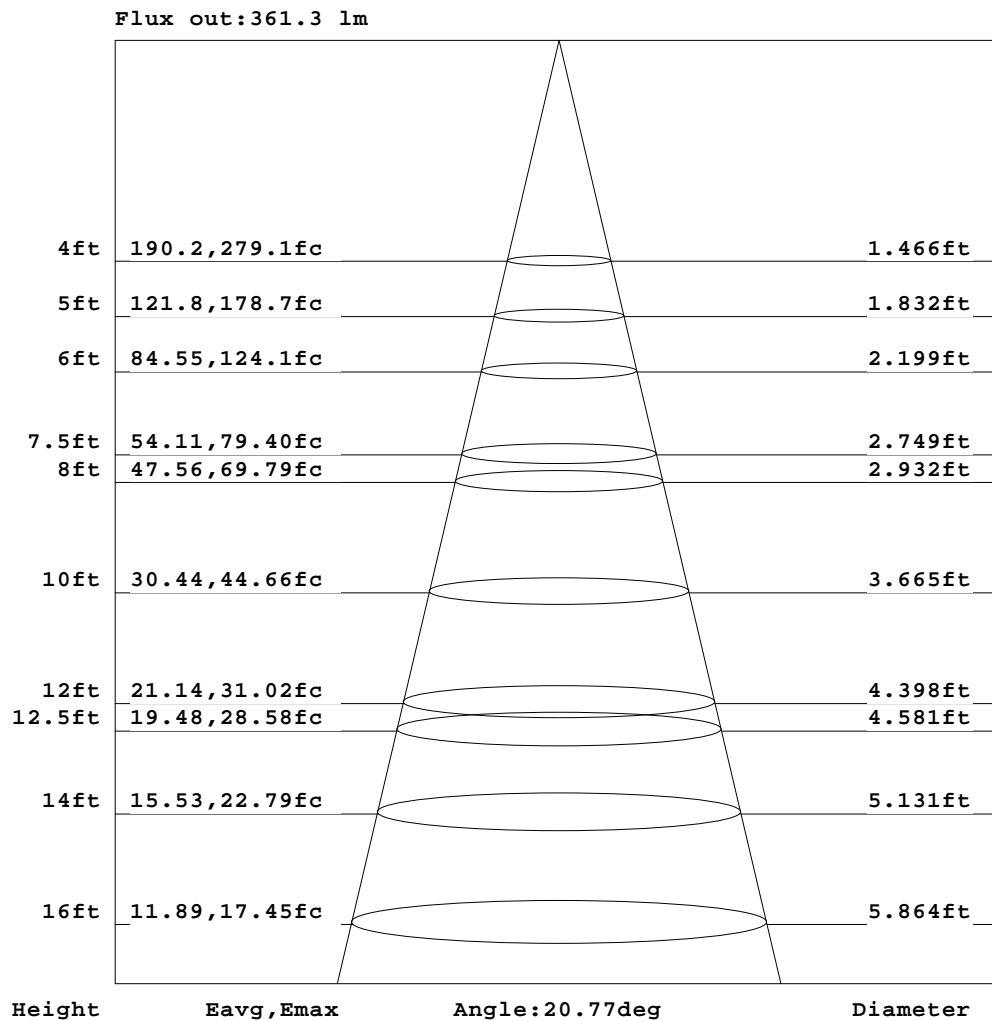


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AAI Figure

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SPEC.: 3000K	DIM.:	SERIAL No.: 2501100049
MFR.: RISE	SUR.: 0.00246176m2	Shielding Angle:



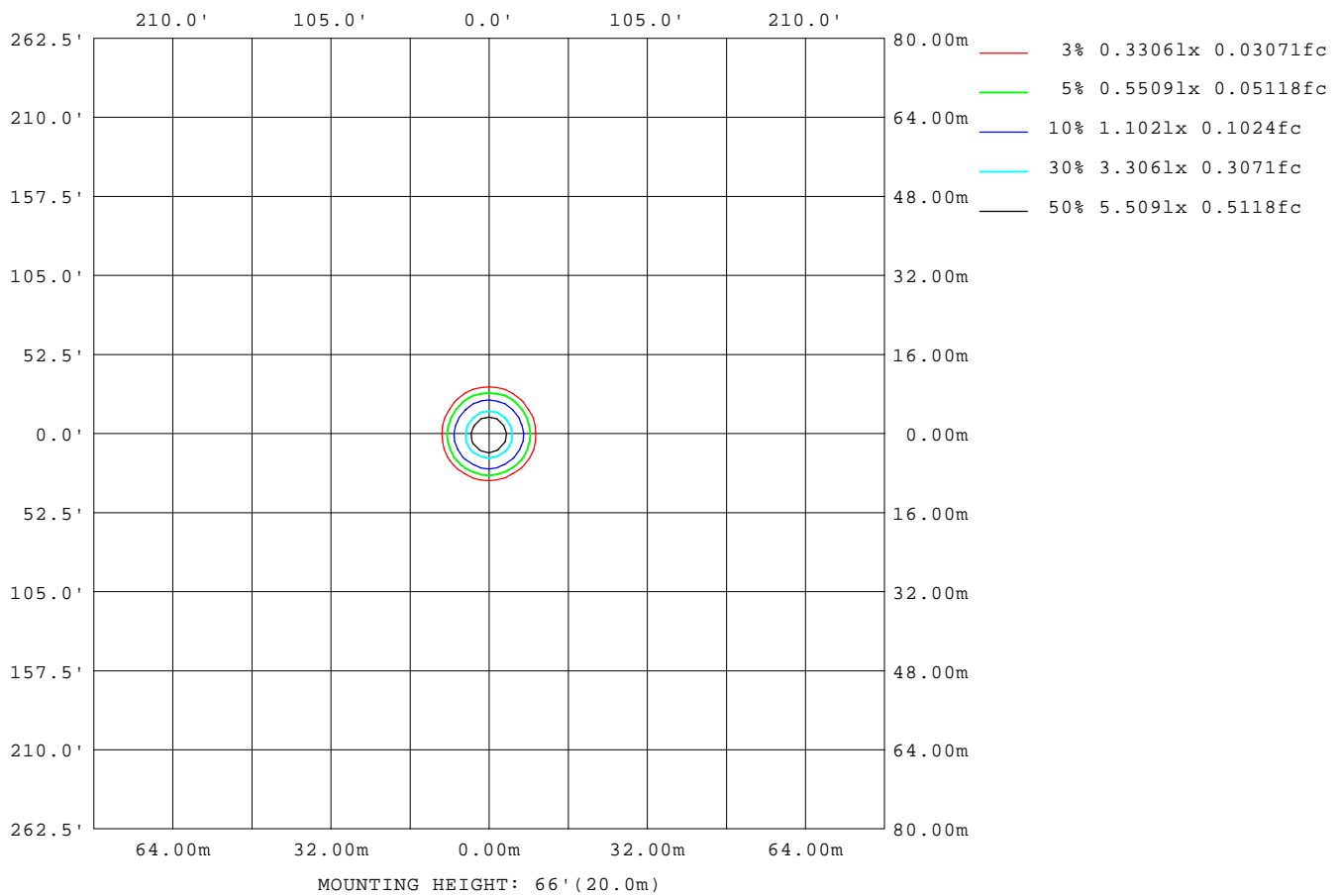
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2025-1-10

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: BXRE-30H1000-A-83 Ra: 95
LENS: PM-1100 24R
NOT DRIVER: 48V
30minutes warm-up

ISOLUX DIAGRAM

Test:U:47.997V I:0.3030A P:14.543W PF:1.0000 Freq:0Hz Lamp Flux:1597.4lx1 lm		
NAME: OZ48-SBZ-64	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2501100049
MFR.: RISE	SUR.: 0.00246176m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2025-1-10

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: BXRE-30H1000-A-83 Ra: 95
LENS: PM-1100 24R
NOT DRIVER: 48V
30minutes warm-up

LED Avg.L Report

Test:U:47.997V I:0.3030A P:14.543W PF:1.0000 Freq:0Hz Lamp Flux:1597.41x1 lm		
NAME: OZ48-SBZ-64	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2501100049
MFR.: RISE	SUR.: 0.00246176m2	Shielding Angle:

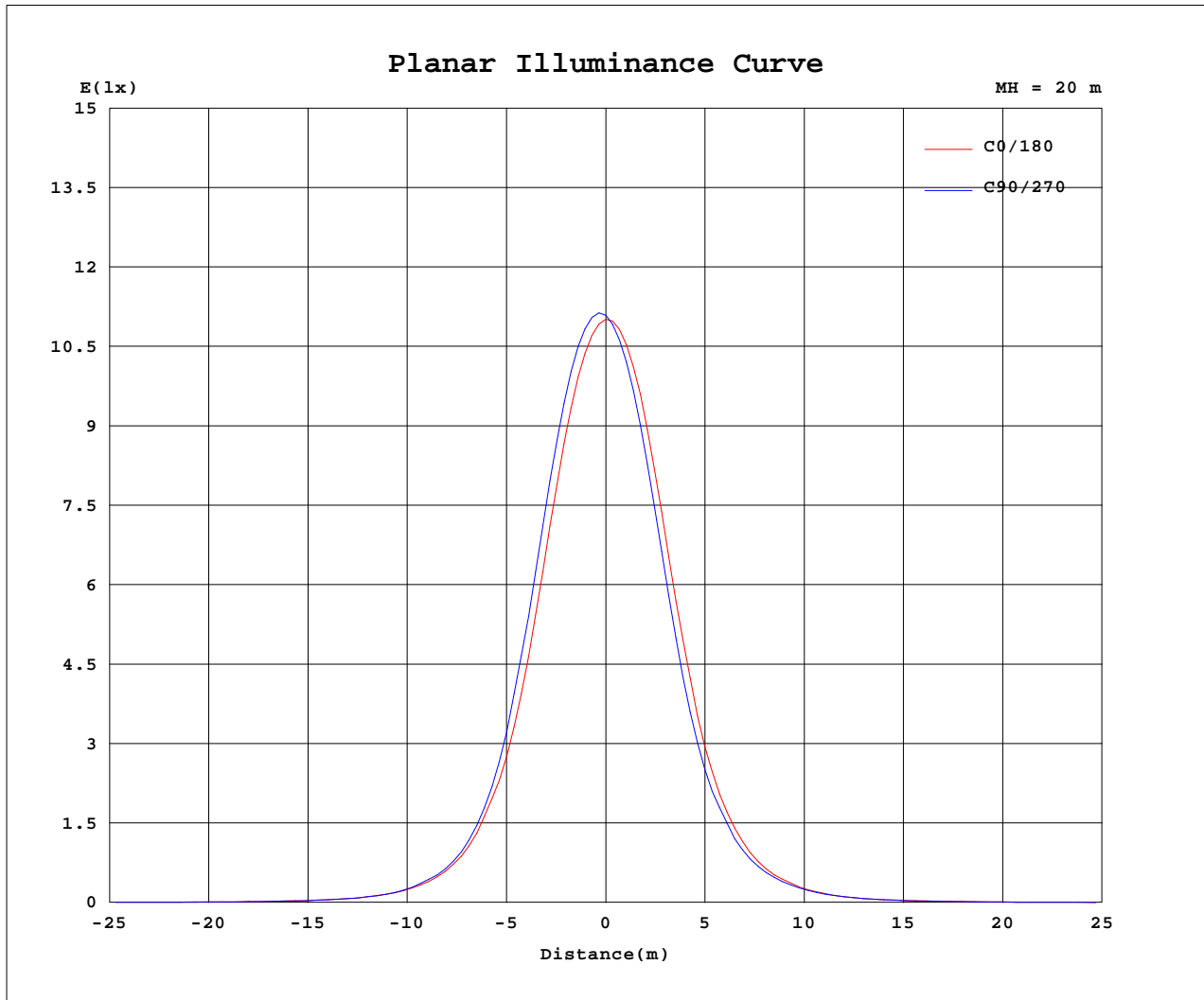
AvgL	cd/m2
L_0~180(65)av	1939
L_0~180(75)av	1056
L_0~180(85)av	2389
L_90~270(65)av	1941
L_90~270(75)av	1026
L_90~270(85)av	2251
L_45(65)av	1891
L_45(75)av	1017
L_45(85)av	2244

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2025-1-10

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:BXRE-30H1000-A-83 Ra:95
LENS:PM-1100 24R
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: 2025-1-10

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: BXRE-30H1000-A-83 Ra: 95
 LENS: PM-1100 24R
 NOT DRIVER: 48V
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:47.997V I:0.3030A P:14.543W PF:1.0000 Freq:0Hz Lamp Flux:1597.4lx1 lm		
NAME: OZ48-SBZ-64	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2501100049
MFR.: RISE	SUR.: 0.00246176m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	4431	4431	4431	4431	4431	4431	4431	4431	4431	4431	4431	4431						
5	3799	3928	3960	4052	4049	4040	3904	3756	3722	3643	3655	3671						
10	2288	2446	2479	2613	2598	2597	2403	2209	2202	2094	2130	2120						
15	1030	1111	1100	1181	1182	1199	1103	991	978	931	940	937						
20	426	454	438	462	461	484	459	416	412	398	406	399						
25	180	195	182	195	189	204	199	181	188	179	180	174						
30	82.5	83.9	82.5	80.7	82.0	84.2	84.6	85.3	85.3	83.8	80.9	80.4						
35	40.0	41.3	39.9	39.6	38.5	40.9	41.8	41.1	41.8	39.9	39.3	38.6						
40	23.1	23.5	22.9	22.8	22.1	23.2	23.8	23.0	23.0	22.5	22.0	21.8						
45	14.8	15.1	14.8	14.8	14.3	14.6	14.8	14.4	14.2	14.1	13.9	14.1						
50	10.3	10.4	10.3	10.2	9.73	9.84	10.03	9.77	9.52	9.76	9.67	9.89						
55	6.52	6.64	6.49	6.39	5.91	5.94	6.08	5.84	5.72	6.11	6.09	6.34						
60	3.66	3.83	3.72	3.64	3.33	3.39	3.36	3.23	3.12	3.37	3.40	3.57						
65	2.11	2.22	2.15	2.08	1.89	1.94	1.92	1.84	1.77	1.96	1.92	2.05						
70	1.22	1.27	1.22	1.16	1.07	1.11	1.11	1.06	1.02	1.15	1.11	1.18						
75	0.72	0.71	0.68	0.65	0.61	0.61	0.63	0.62	0.61	0.66	0.66	0.69						
80	0.61	0.59	0.56	0.54	0.52	0.51	0.55	0.54	0.53	0.55	0.56	0.59						
85	0.55	0.53	0.50	0.48	0.45	0.45	0.47	0.46	0.46	0.48	0.50	0.52						
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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