

Luminaire Photograph



Light Output Ratio:	47.6%	
Luminaire Power:	8.183 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: 2025-1-4

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-0145 30R
NOT DRIVER: 48V
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

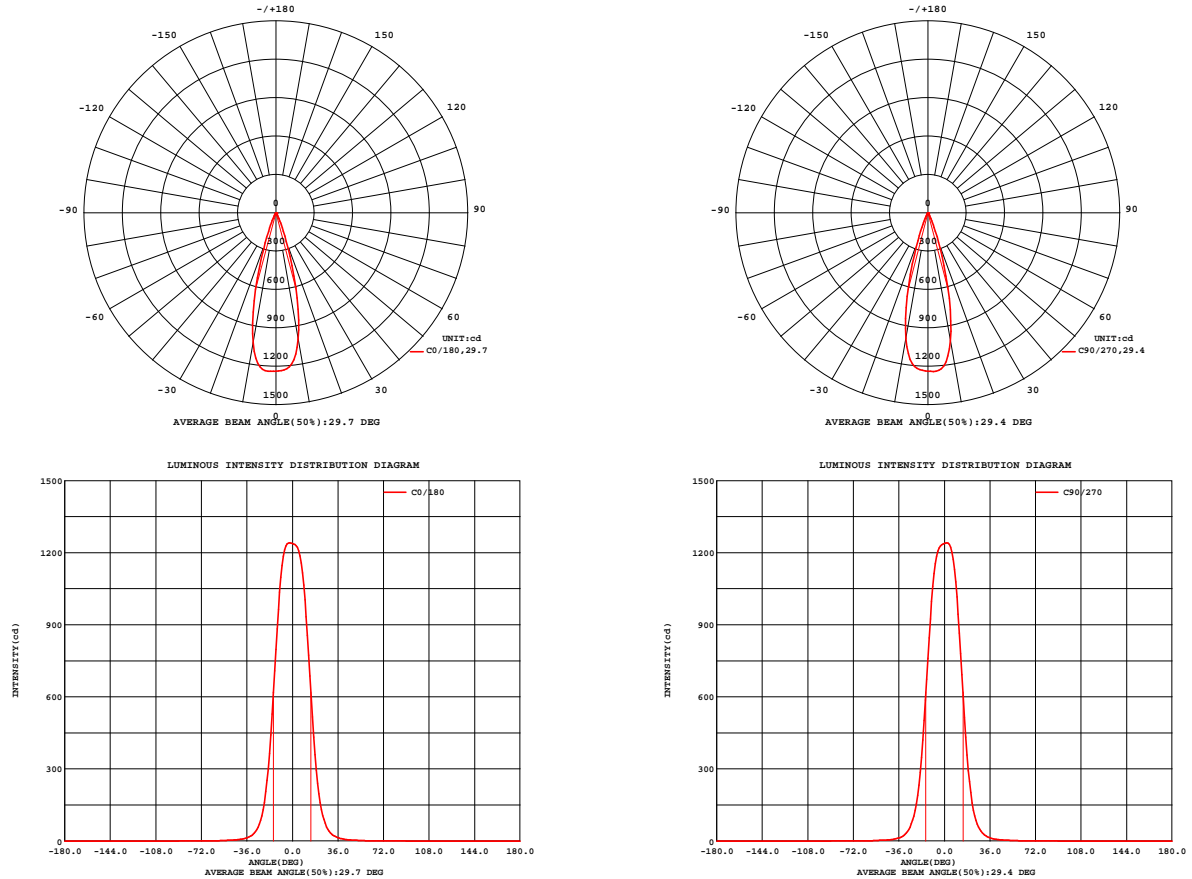


Fig. C0/C180

Fig. C90/C270

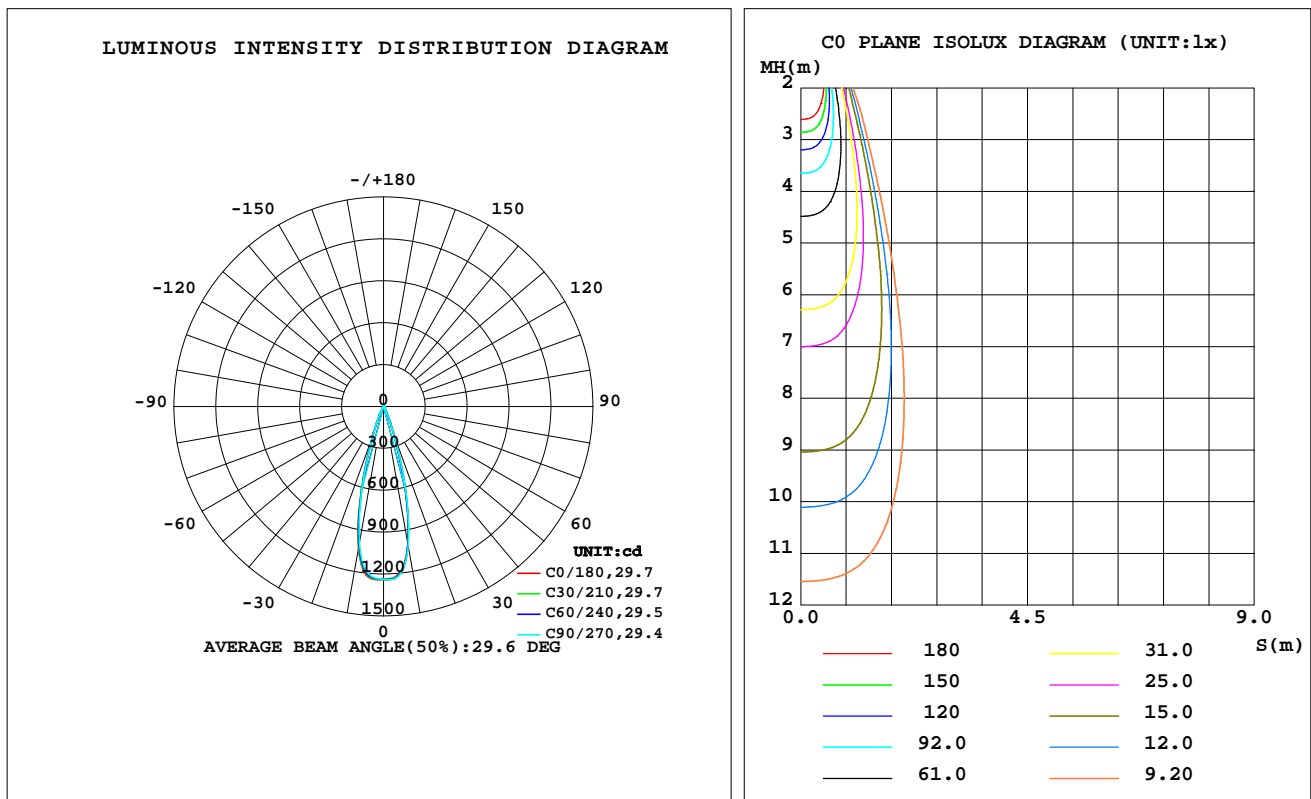
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Test Speed: HIGH
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:47.997V I:0.1705A P:8.1835W PF:1.0000 Freq:49.99Hz Lamp Flux:692.395x1 lm		
NAME: OZ48-SBZ-40	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2501040016
MFR.: RISE	SUR.: 0.00113354m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 40.28 lm/W			
MODEL	Brideglux	I _{max} (cd)	1241	S/MH(C0/180)	0.46
NOMINAL POWER(W)	8	LOR(%)	47.6	S/MH(C90/270)	0.46
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	329.61	UP,DN(C0-180)	0.0,23.8
NOMINAL FLUX(lm)	692.395	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,23.8
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	48	down(%)	47.6	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	1003	1008	1016	1006	1035	1020	997.3	984.4	0- 10	109.6	109.6	33.2,15.8
20	241.0	241.4	247.2	233.7	252.5	243.3	232.5	238.5	10- 20	159.0	268.6	81.5,38.8
30	33.89	32.72	33.72	32.78	32.83	31.24	32.68	33.38	20- 30	44.51	313.1	95,45.2
40	8.289	7.035	7.681	7.687	7.640	6.607	7.243	7.729	30- 40	10.10	323.2	98.1,46.7
50	2.990	2.877	2.995	2.934	2.942	2.787	2.885	2.893	40- 50	3.515	326.8	99.1,47.2
60	0.9606	1.014	1.014	0.9699	0.8883	0.8161	0.8539	0.8844	50- 60	1.684	328.4	99.6,47.4
70	0.4065	0.4303	0.4437	0.4176	0.3586	0.3235	0.3431	0.3649	60- 70	0.5490	329.0	99.8,47.5
80	0.3750	0.4049	0.4257	0.2987	0.3216	0.2790	0.3094	0.3327	70- 80	0.3819	329.4	99.9,47.6
90	0	0	0	0	0	0	0	0	80- 90	0.2393	329.6	100,47.6
100	0	0	0	0	0	0	0	0	90-100	0	329.6	100,47.6
110	0	0	0	0	0	0	0	0	100-110	0	329.6	100,47.6
120	0	0	0	0	0	0	0	0	110-120	0	329.6	100,47.6
130	0	0	0	0	0	0	0	0	120-130	0	329.6	100,47.6
140	0	0	0	0	0	0	0	0	130-140	0	329.6	100,47.6
150	0	0	0	0	0	0	0	0	140-150	0	329.6	100,47.6
160	0	0	0	0	0	0	0	0	150-160	0	329.6	100,47.6
170	0	0	0	0	0	0	0	0	160-170	0	329.6	100,47.6
180	0	0	0	0	0	0	0	0	170-180	0	329.6	100,47.6
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Test Distance:3.160m [K=1.0000]
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LENS:PM-0145 30R
NOT DRIVER:48V
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:47.997V I:0.1705A P:8.1835W PF:1.0000 Freq:49.99Hz
Lamp Flux:692.395x1 lm

NAME: OZ48-SBZ-40

TYPE:

WEIGHT:

SPEC.: 3000K

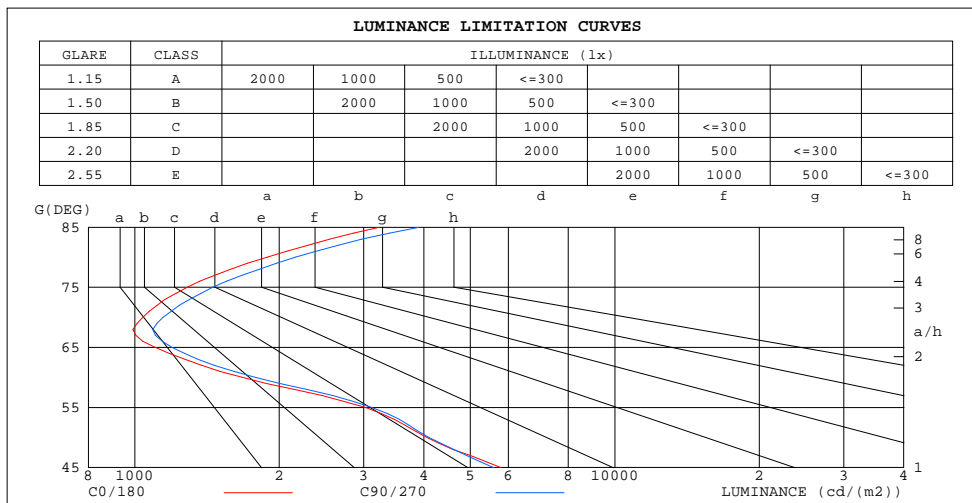
DIM.:

SERIAL No.: 2501040016

MFR.: RISE

SUR.: 0.00113354m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3228	3905
80	1888	2162
75	1286	1452
70	1039	1144
65	1103	1194
60	1680	1788
55	3030	3119
50	4067	4109
45	5804	5600

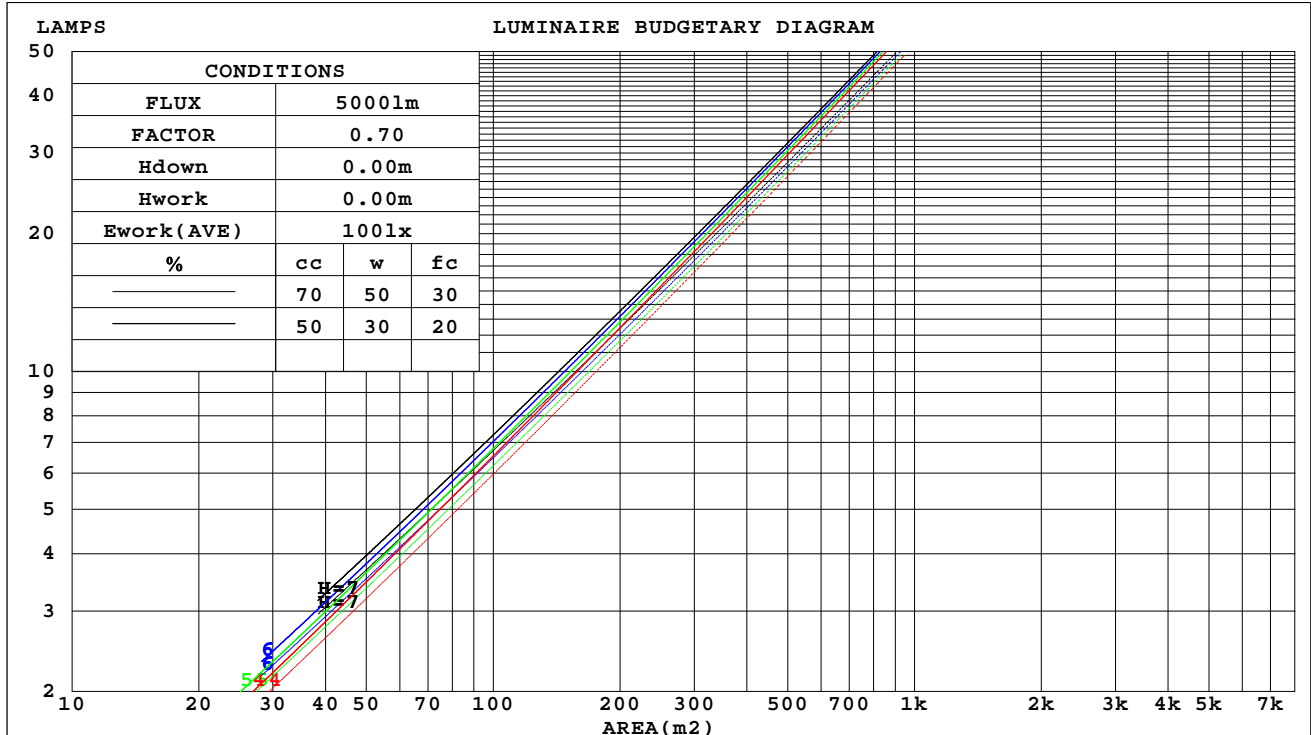
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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MFR.: RISE	SUR.: 0.00113354m2	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	.55	.55	.55	.53	.53	.53	.51	.51	.51	.49	.49	.49	.48
1.0	.54	.53	.52	.53	.52	.51	.51	.50	.50	.49	.49	.48	.47	.47	.47	.46
2.0	.51	.50	.49	.50	.49	.48	.49	.48	.47	.48	.47	.46	.46	.46	.45	.44
3.0	.49	.47	.46	.48	.47	.45	.47	.46	.45	.46	.45	.44	.45	.44	.43	.43
4.0	.47	.45	.44	.47	.45	.43	.46	.44	.43	.45	.43	.42	.44	.43	.42	.41
5.0	.45	.43	.42	.45	.43	.42	.44	.43	.41	.43	.42	.41	.43	.42	.41	.40
6.0	.44	.42	.40	.43	.42	.40	.43	.41	.40	.42	.41	.40	.42	.40	.39	.39
7.0	.42	.40	.39	.42	.40	.39	.42	.40	.39	.41	.40	.38	.41	.39	.38	.38
8.0	.41	.39	.38	.41	.39	.38	.40	.39	.37	.40	.38	.37	.40	.38	.37	.37
9.0	.40	.38	.37	.40	.38	.36	.39	.38	.36	.39	.37	.36	.39	.37	.36	.36
10.0	.39	.37	.35	.38	.37	.35	.38	.36	.35	.38	.36	.35	.38	.36	.35	.35



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30minutes warm-up

WEC AND CCEC

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NAME: OZ48-SBZ-40	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2501040016
MFR.: RISE	SUR.: 0.00113354m2	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	.066	.038	.012	.063	.036	.011	.057	.033	.010	.052	.030	.010	.047	.027	.009				
2.0	.061	.033	.010	.058	.032	.010	.054	.030	.009	.049	.028	.009	.045	.025	.008				
3.0	.057	.030	.009	.055	.029	.009	.051	.027	.008	.047	.026	.008	.043	.024	.007				
4.0	.053	.028	.008	.051	.027	.008	.048	.025	.008	.045	.024	.007	.042	.023	.007				
5.0	.050	.026	.007	.049	.025	.007	.046	.024	.007	.043	.023	.007	.040	.022	.006				
6.0	.047	.024	.007	.046	.023	.007	.044	.022	.007	.041	.021	.006	.039	.021	.006				
7.0	.045	.022	.006	.044	.022	.006	.042	.021	.006	.040	.020	.006	.038	.020	.006				
8.0	.043	.021	.006	.042	.021	.006	.040	.020	.006	.038	.019	.006	.037	.019	.005				
9.0	.041	.020	.006	.040	.020	.005	.038	.019	.005	.037	.018	.005	.035	.018	.005				
10.0	.039	.019	.005	.039	.019	.005	.037	.018	.005	.036	.018	.005	.034	.017	.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	.077	.077	.077	.053	.053	.053	.030	.030	.030	.010	.010	.010	
1.0	.080	.075	.070	.069	.064	.061	.047	.044	.042	.027	.026	.024	.009	.008	.008	
2.0	.072	.063	.056	.061	.054	.048	.042	.038	.034	.024	.022	.020	.008	.007	.006	
3.0	.064	.054	.046	.055	.047	.039	.038	.032	.028	.022	.019	.016	.007	.006	.005	
4.0	.059	.047	.037	.050	.040	.033	.035	.028	.023	.020	.016	.014	.006	.005	.004	
5.0	.054	.041	.031	.046	.035	.027	.032	.025	.019	.018	.014	.011	.006	.005	.004	
6.0	.049	.036	.026	.042	.031	.023	.029	.022	.016	.017	.013	.010	.005	.004	.003	
7.0	.046	.032	.023	.039	.028	.020	.027	.020	.014	.016	.012	.008	.005	.004	.003	
8.0	.043	.029	.019	.037	.025	.017	.025	.018	.012	.015	.010	.007	.005	.003	.002	
9.0	.040	.026	.017	.034	.023	.015	.024	.016	.010	.014	.009	.006	.005	.003	.002	
10.0	.038	.024	.015	.032	.021	.013	.023	.015	.009	.013	.009	.005	.004	.003	.002	

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2501040016		
MFR.: RISE					SUR.: 0.00113354m2			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	9.2	9.9	9.4	10.0	10.2	9.3	10.0	9.5	10.1	10.3
3H	9.2	9.8	9.5	10.0	10.2	9.3	9.9	9.6	10.1	10.3
4H	9.3	9.9	9.5	10.1	10.3	9.4	10.0	9.7	10.2	10.4
6H	9.4	10.0	9.7	10.2	10.4	9.6	10.2	9.9	10.4	10.6
8H	9.6	10.1	9.9	10.3	10.6	9.8	10.3	10.1	10.6	10.8
12H	9.8	10.3	10.1	10.6	10.8	10.1	10.6	10.4	10.9	11.1
4H 2H	9.1	9.7	9.4	9.9	10.1	9.2	9.8	9.5	10.0	10.2
3H	9.2	9.7	9.5	9.9	10.2	9.3	9.8	9.6	10.1	10.3
4H	9.3	9.8	9.6	10.1	10.4	9.4	9.9	9.8	10.2	10.5
6H	9.6	10.0	10.0	10.3	10.7	9.8	10.2	10.2	10.5	10.9
8H	9.9	10.2	10.2	10.6	10.9	10.1	10.5	10.5	10.9	11.2
12H	10.2	10.6	10.6	11.0	11.3	10.6	11.0	11.0	11.3	11.7
8H 4H	9.3	9.7	9.7	10.0	10.4	9.4	9.8	9.8	10.2	10.5
6H	9.8	10.1	10.2	10.5	10.9	10.0	10.3	10.4	10.7	11.1
8H	10.2	10.5	10.6	10.9	11.3	10.5	10.7	10.9	11.2	11.6
12H	10.8	11.0	11.2	11.5	11.9	11.2	11.4	11.6	11.9	12.3
12H 4H	9.3	9.7	9.7	10.0	10.4	9.4	9.8	9.8	10.1	10.5
6H	9.8	10.1	10.3	10.5	11.0	10.0	10.3	10.5	10.7	11.2
8H	10.3	10.6	10.8	11.0	11.5	10.6	10.8	11.1	11.3	11.8
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.8 / - 1.6					+ 1.5 / - 1.5				
1.5H	+ 3.0 / - 1.1					+ 2.5 / - 1.1				
2.0H	+ 2.1 / - 1.4					+ 1.7 / - 1.3				

CIE Pub.117, 692.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.3)
Area: 0.00113354 m2

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UTILIZATION FACTORS TABLE

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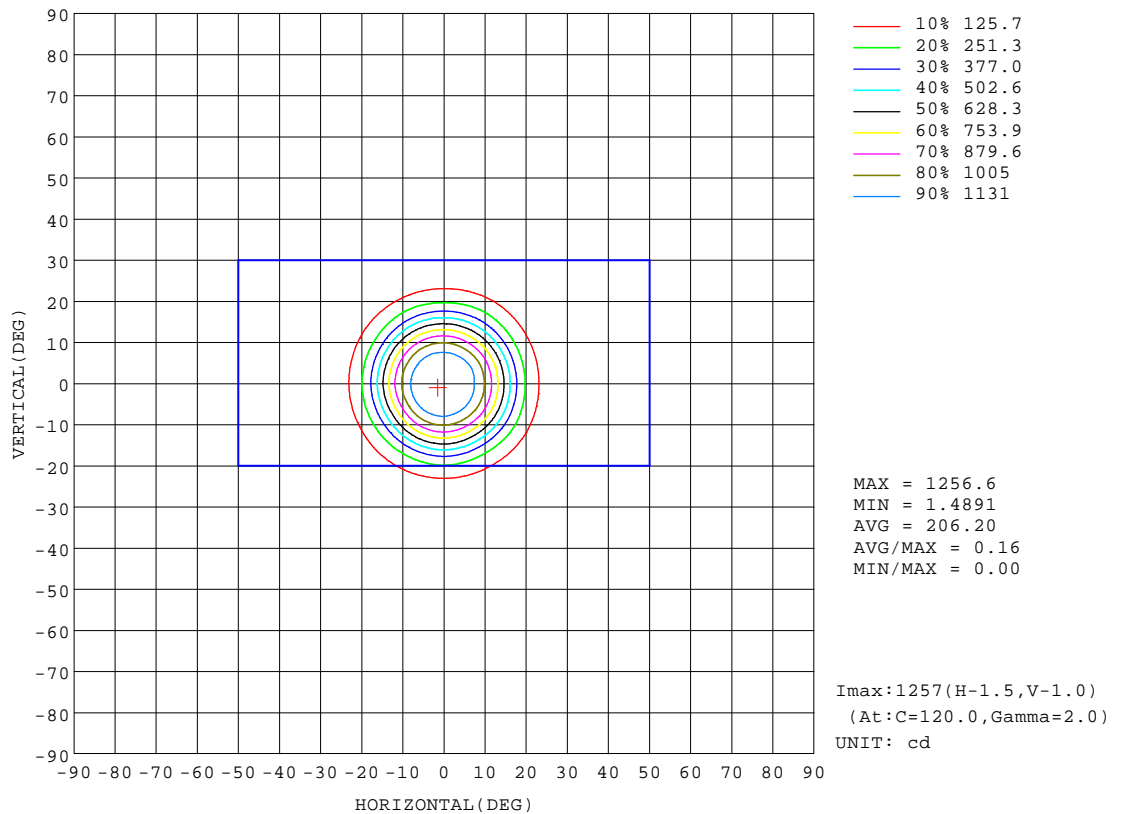
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	43	40	39	43	40	39	42	40	38	37
0.80	46	44	42	46	44	42	46	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	49	48	47	45
2.00	52	50	49	51	50	49	50	49	48	45
2.50	53	51	50	52	51	49	51	50	49	46
3.00	54	52	51	53	51	50	51	50	49	46
4.00	54	53	52	53	52	52	52	51	50	47
5.00	55	54	53	54	53	52	52	52	51	47
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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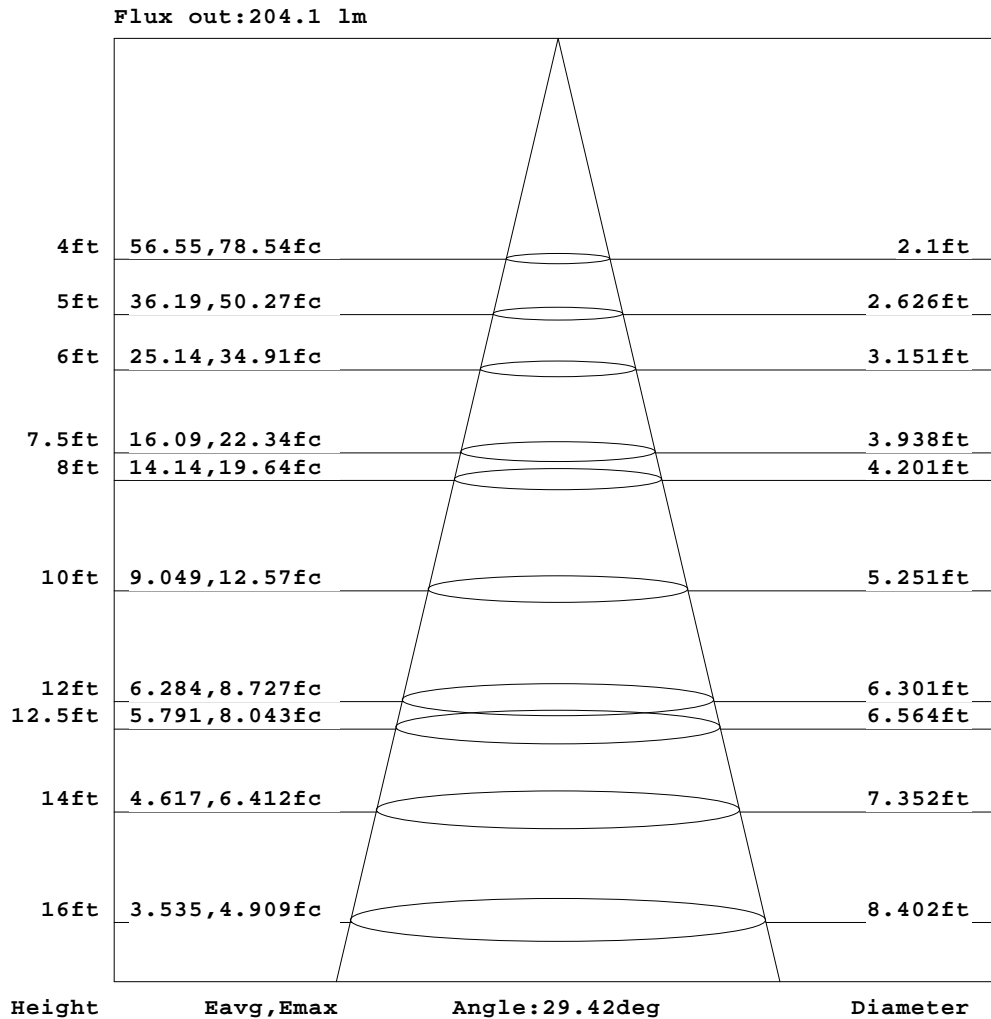


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AAI Figure

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SPEC.: 3000K	DIM.:	SERIAL No.: 2501040016
MFR.: RISE	SUR.: 0.00113354m2	Shielding Angle:



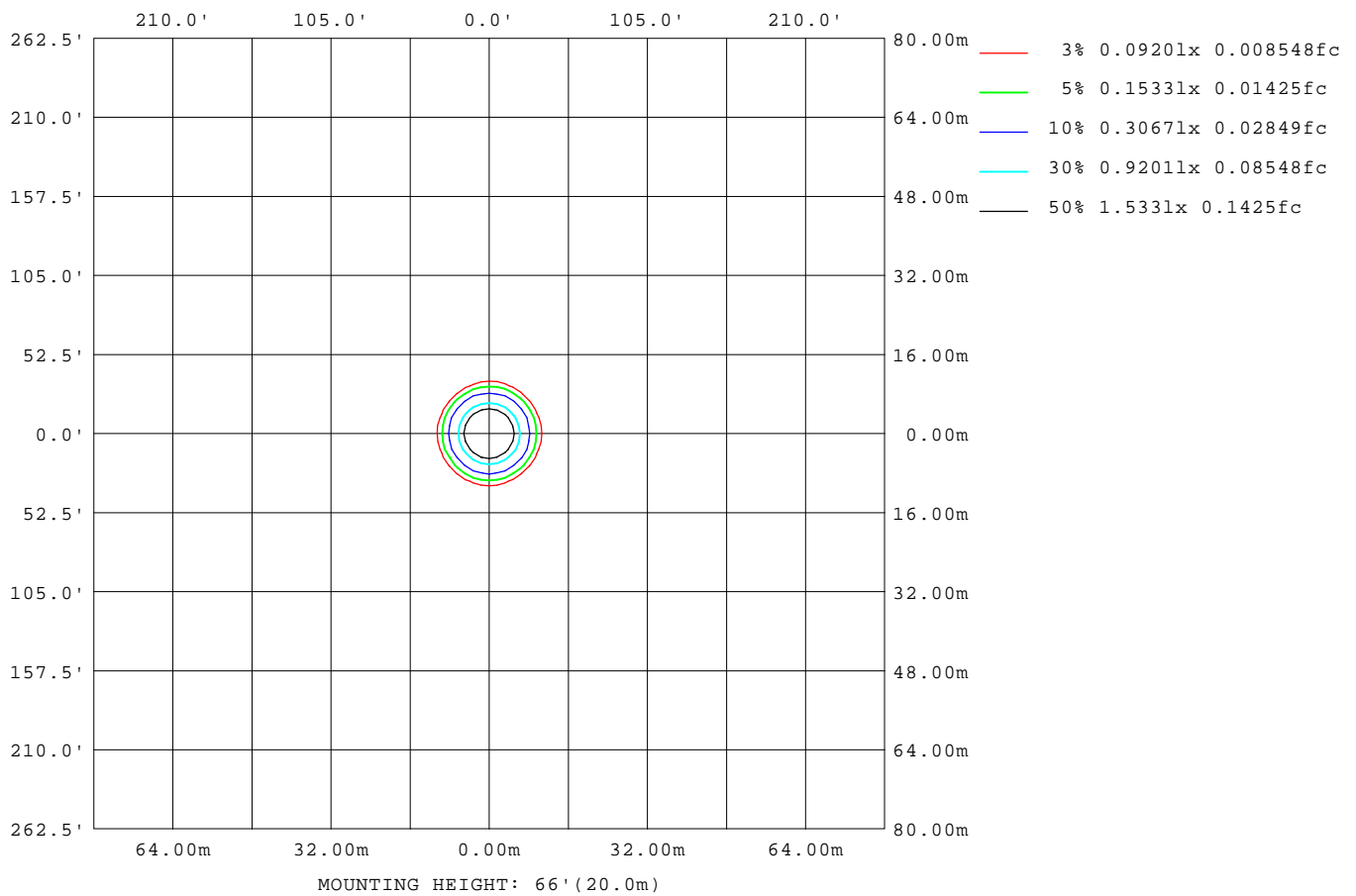
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2025-1-4

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-0145 30R
NOT DRIVER: 48V
30minutes warm-up

ISOLUX DIAGRAM

Test:U:47.997V I:0.1705A P:8.1835W PF:1.0000 Freq:49.99Hz Lamp Flux:692.395x1 lm		
NAME: OZ48-SBZ-40	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2501040016
MFR.: RISE	SUR.: 0.00113354m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2025-1-4

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-0145 30R
NOT DRIVER:48V
30minutes warm-up

LED Avg.L Report

Test:U:47.997V I:0.1705A P:8.1835W PF:1.0000 Freq:49.99Hz Lamp Flux:692.395x1 lm		
NAME: OZ48-SBZ-40	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2501040016
MFR.: RISE	SUR.: 0.00113354m2	Shielding Angle:

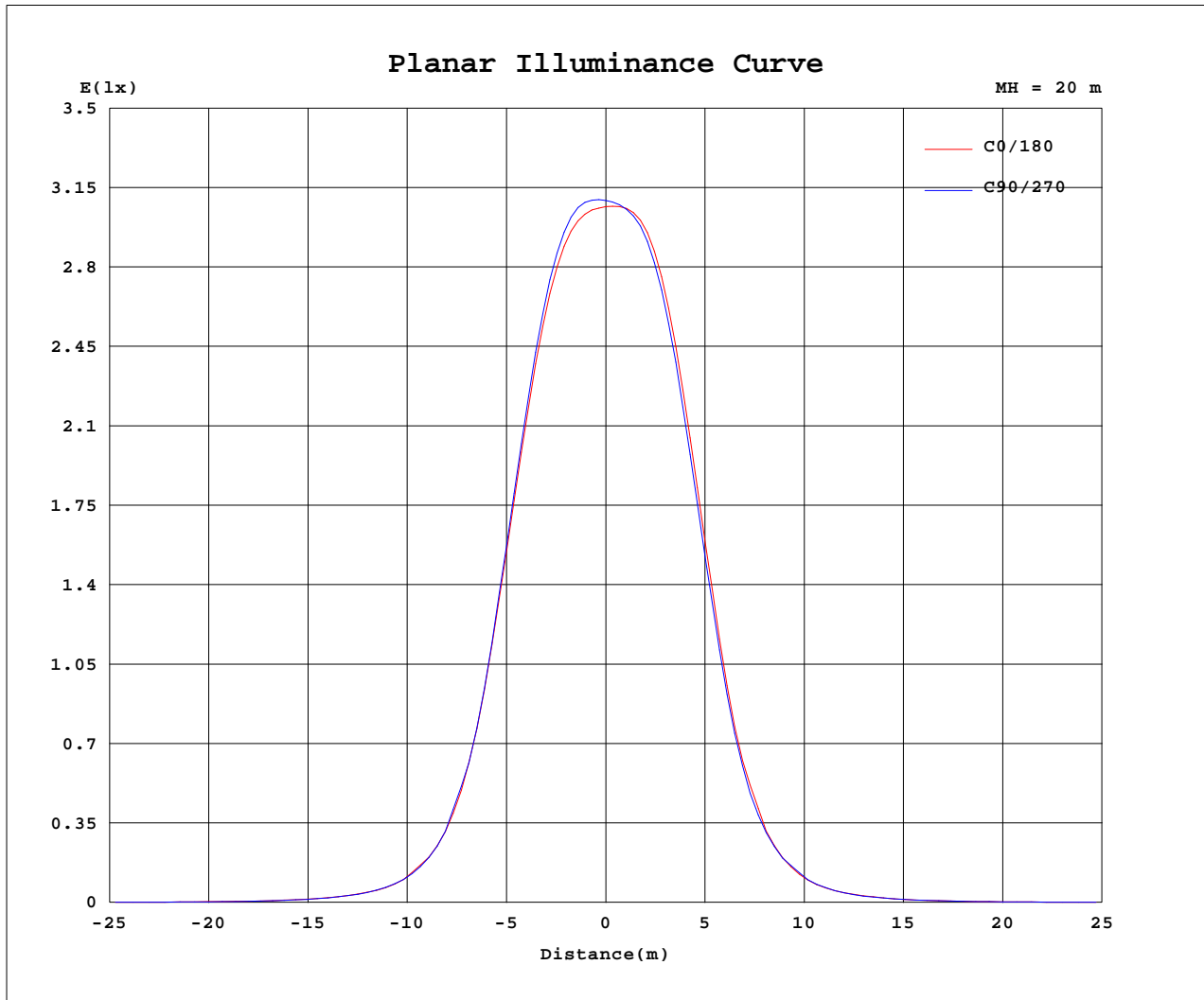
AvgL	cd/m2
L_0~180(65)av	1056
L_0~180(75)av	1218
L_0~180(85)av	2884
L_90~270(65)av	1078
L_90~270(75)av	1271
L_90~270(85)av	3189
L_45(65)av	1057
L_45(75)av	1231
L_45(85)av	2961

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2025-1-4

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-0145 30R
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: 2025-1-4

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-0145 30R
 NOT DRIVER: 48V
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:47.997V I:0.1705A P:8.1835W PF:1.0000 Freq:49.99Hz Lamp Flux:692.395x1 lm		
NAME: OZ48-SBZ-40	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2501040016
MFR.: RISE	SUR.: 0.00113354m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1238	1238	1238	1238	1238	1238	1238	1238	1238	1238	1238	1238						
5	1208	1214	1217	1222	1222	1219	1228	1222	1214	1207	1200	1199						
10	1003	1010	1006	1016	1012	1000	1035	1027	1014	997	984	984						
15	601	606	594	605	595	581	619	611	601	587	583	581						
20	241	252	231	247	232	235	252	240	246	233	245	232						
25	90.3	87.0	85.7	85.7	86.7	80.9	85.7	89.8	85.1	87.8	86.8	87.8						
30	33.9	33.0	32.4	33.7	33.0	32.6	32.8	30.4	32.0	32.7	33.4	33.4						
35	16.1	13.5	14.3	15.4	15.0	15.6	15.2	12.6	13.8	14.6	15.1	16.0						
40	8.29	6.73	7.34	7.68	7.46	7.91	7.64	6.32	6.89	7.24	7.32	8.13						
45	4.69	4.03	4.39	4.49	4.36	4.57	4.51	3.95	4.11	4.25	4.17	4.57						
50	2.99	2.83	2.92	2.99	2.87	3.00	2.94	2.78	2.79	2.89	2.80	2.99						
55	1.99	2.01	2.03	2.03	1.92	1.97	1.88	1.75	1.78	1.82	1.86	1.93						
60	0.96	1.02	1.01	1.01	0.97	0.97	0.89	0.81	0.82	0.85	0.87	0.90						
65	0.53	0.56	0.56	0.57	0.55	0.54	0.48	0.44	0.44	0.46	0.48	0.49						
70	0.41	0.42	0.44	0.44	0.43	0.40	0.36	0.32	0.32	0.34	0.36	0.37						
75	0.38	0.40	0.42	0.43	0.41	0.38	0.33	0.30	0.30	0.32	0.34	0.34						
80	0.37	0.40	0.41	0.43	0.23	0.37	0.32	0.28	0.28	0.31	0.33	0.34						
85	0.32	0.35	0.37	0.39	0.36	0.32	0.25	0.20	0.20	0.24	0.27	0.28						
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
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