

Luminaire Photograph



Light Output Ratio:	67.4%	
Luminaire Power:	1.901 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.75	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2026-3-18

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: GW CSSRMU.CM-M6MF-XX37-1 Ra: 90
LENS: PM-0142B-007-056 38R
NOT DRIVER: DC 24V

30 minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

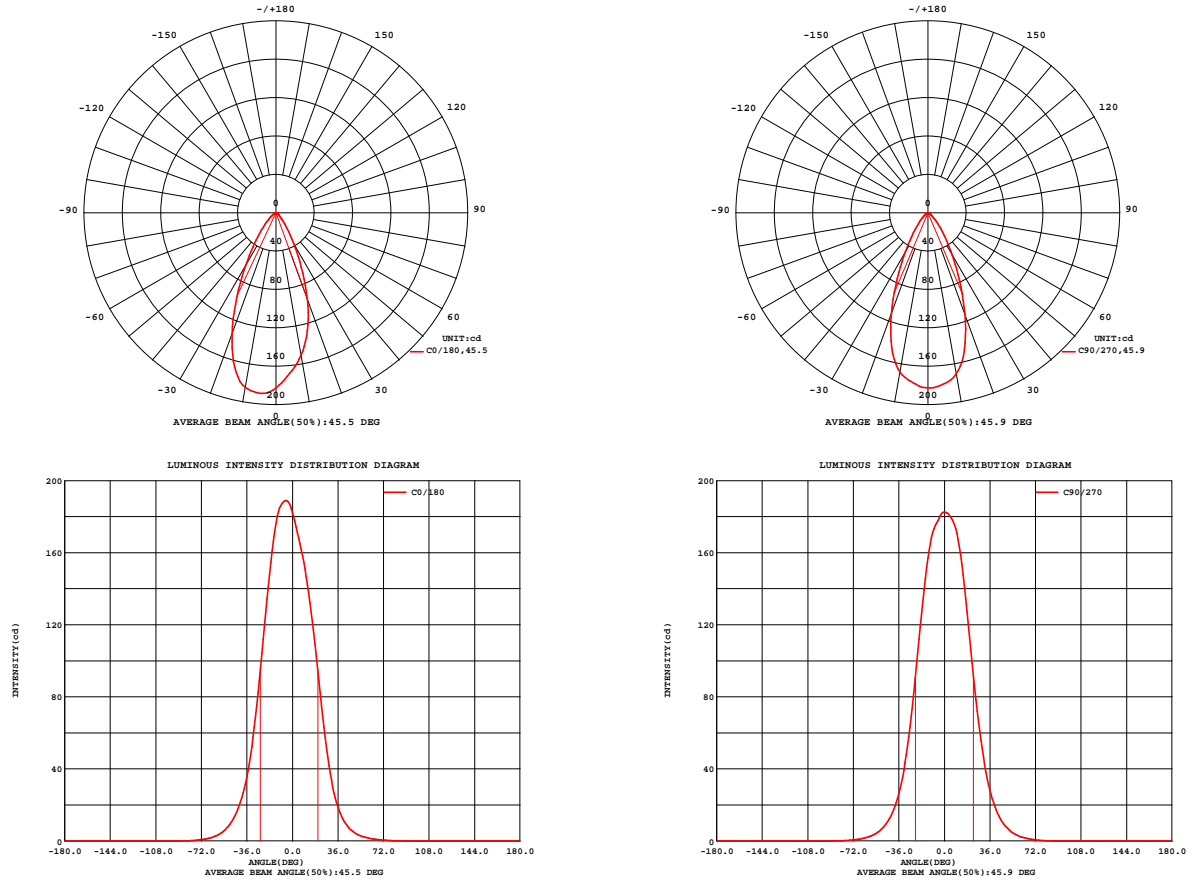


Fig. C0/C180

Fig. C90/C270

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2026-3-18

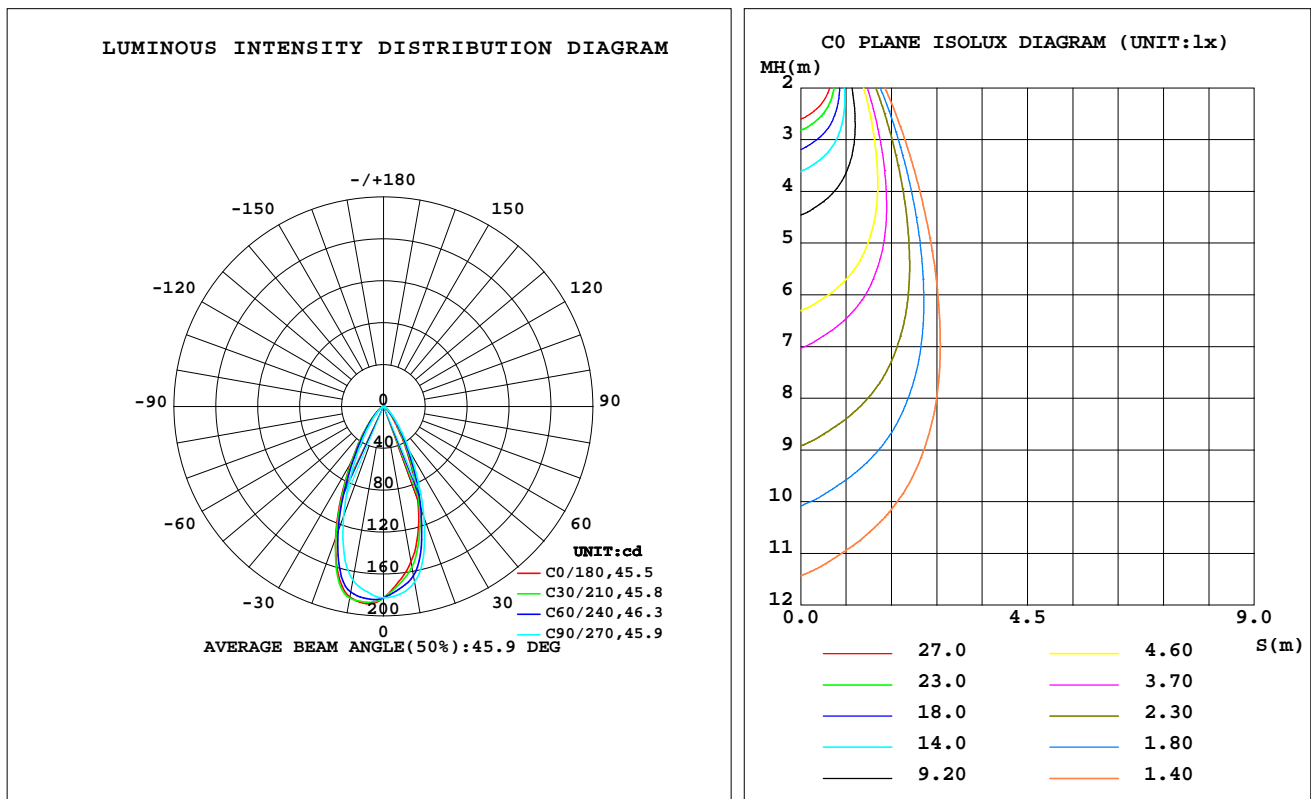
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NOT DRIVER:DC 24V

30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.997V I:0.0792A P:1.9006W PF:1.0000 Freq:49.99Hz Lamp Flux:188.78x1 lm		
NAME: 2417.238	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603180030
MFR.: RISE	SUR.: 0.00005024m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 66.91 lm/W			
MODEL	OSRAM	Imax(cd)	189.0	S/MH(C0/180)	0.79
NOMINAL POWER(W)	2	LOR(%)	67.4	S/MH(C90/270)	0.72
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	127.17	η UP,DN(C0-180)	0.0,32.9
NOMINAL FLUX(lm)	188.78	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,34.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	24	η down(%)	67.4	CIBSE SHR MAX	0.75



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	150.9	160.1	170.5	176.6	184.8	182.9	168.6	152.7	0- 10	16.73	16.73	13.2,8.86
20	95.90	102.1	113.1	123.3	134.1	130.5	111.9	97.19	10- 20	40.16	56.89	44.7,30.1
30	37.34	43.48	50.85	58.92	63.06	58.72	47.67	39.94	20- 30	35.89	92.78	73,49.1
40	12.21	15.84	19.29	24.02	23.89	22.56	17.42	14.00	30- 40	19.75	112.5	88.5,59.6
50	4.261	5.559	6.942	8.865	8.646	8.275	6.294	4.945	40- 50	9.019	121.5	95.6,64.4
60	1.642	1.966	2.484	2.960	2.985	2.781	2.269	1.778	50- 60	3.737	125.3	98.5,66.4
70	0.5932	0.6508	0.7867	0.8675	0.9240	0.8325	0.7369	0.5940	60- 70	1.400	126.7	99.6,67.1
80	0.1459	0.1476	0.1735	0.1859	0.2055	0.1802	0.1692	0.1389	70- 80	0.4254	127.1	100,67.3
90	0	0	0	0	0	0	0	0	80- 90	0.0564	127.2	100,67.4
100	0	0	0	0	0	0	0	0	90-100	0	127.2	100,67.4
110	0	0	0	0	0	0	0	0	100-110	0	127.2	100,67.4
120	0	0	0	0	0	0	0	0	110-120	0	127.2	100,67.4
130	0	0	0	0	0	0	0	0	120-130	0	127.2	100,67.4
140	0	0	0	0	0	0	0	0	130-140	0	127.2	100,67.4
150	0	0	0	0	0	0	0	0	140-150	0	127.2	100,67.4
160	0	0	0	0	0	0	0	0	150-160	0	127.2	100,67.4
170	0	0	0	0	0	0	0	0	160-170	0	127.2	100,67.4
180	0	0	0	0	0	0	0	0	170-180	0	127.2	100,67.4
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Temperature:25.3℃
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Test Date:2026-3-18

γ Range: 0 - 180DEG
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Humidity:65.0%
Test Distance:3.160m [K=1.0000]
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NOT DRIVER:DC 24V

30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:23.997V I:0.0792A P:1.9006W PF:1.0000 Freq:49.99Hz
Lamp Flux:188.78x1 lm

NAME: 2417.238

TYPE:

WEIGHT:

SPEC.: 3000K

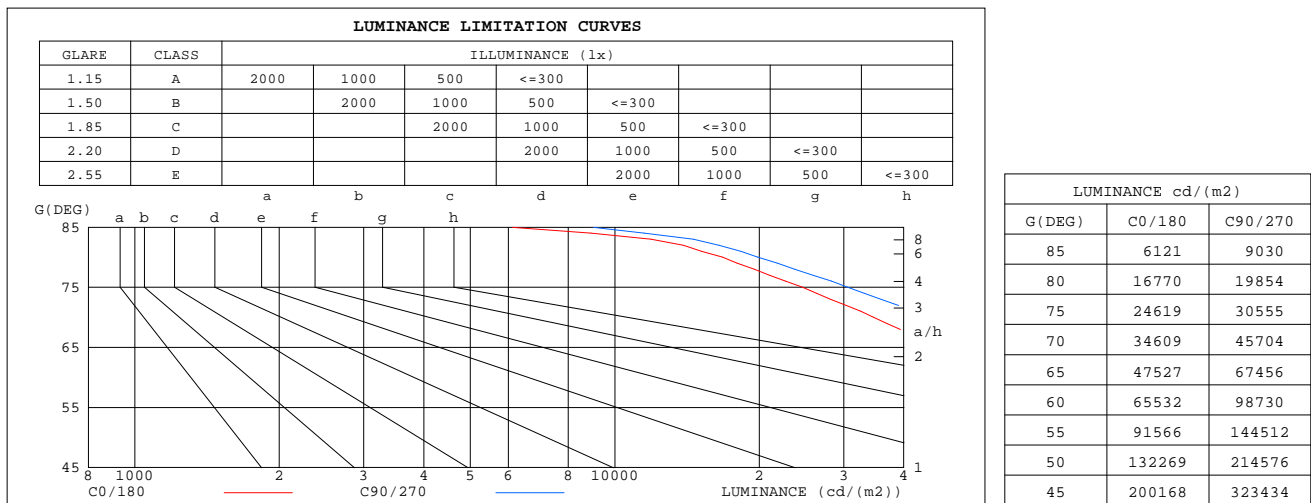
DIM.:

SERIAL No.: 2603180030

MFR.: RISE

SUR.: 0.00005024m2

Shielding Angle:



C Range: 0 - 360DEG
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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Lamp Flux:188.78x1 lm

NAME: 2417.238

TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

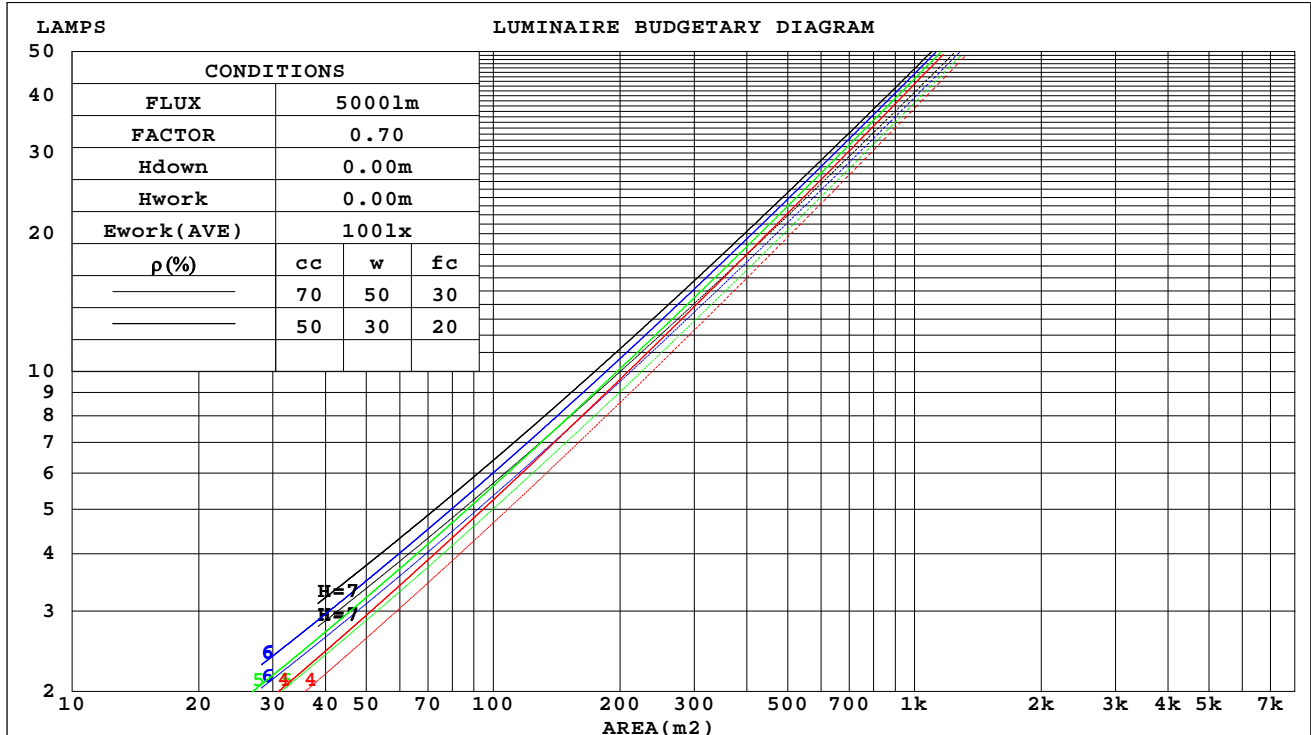
SERIAL No.: 2603180030

MFR.: RISE

SUR.: 0.00005024m2

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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WEC AND CCEC

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NAME: 2417.238	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603180030
MFR.: RISE	SUR.: 0.00005024m2	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	.121	.069	.022	.116	.066	.021	.108	.062	.020	.100	.058	.018	.093	.054	.017	
2.0	.115	.063	.019	.112	.061	.019	.104	.058	.018	.098	.055	.017	.092	.052	.016	
3.0	.110	.058	.017	.106	.057	.017	.100	.054	.017	.095	.052	.016	.090	.050	.015	
4.0	.104	.054	.016	.101	.053	.016	.096	.051	.015	.091	.049	.015	.087	.047	.014	
5.0	.099	.050	.015	.097	.050	.014	.092	.048	.014	.088	.046	.014	.084	.045	.013	
6.0	.094	.047	.014	.092	.046	.013	.088	.045	.013	.084	.044	.013	.081	.043	.013	
7.0	.090	.044	.013	.088	.044	.012	.084	.043	.012	.081	.042	.012	.078	.040	.012	
8.0	.086	.042	.012	.084	.041	.012	.081	.040	.012	.078	.039	.011	.075	.039	.011	
9.0	.082	.040	.011	.080	.039	.011	.078	.038	.011	.075	.038	.011	.072	.037	.011	
10.0	.078	.038	.010	.077	.037	.010	.075	.037	.010	.072	.036	.010	.070	.035	.010	

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	.128	.128	.128	.110	.110	.110	.075	.075	.075	.043	.043	.043	.014	.014	.014	
1.0	.115	.106	.097	.099	.091	.084	.068	.063	.058	.039	.036	.034	.012	.012	.011	
2.0	.105	.089	.076	.090	.077	.066	.062	.053	.046	.036	.031	.027	.011	.010	.009	
3.0	.097	.077	.060	.083	.066	.052	.057	.046	.037	.033	.027	.022	.011	.009	.007	
4.0	.090	.067	.049	.077	.058	.042	.053	.040	.030	.031	.023	.018	.010	.008	.006	
5.0	.084	.059	.040	.072	.051	.035	.050	.036	.025	.029	.021	.015	.009	.007	.005	
6.0	.079	.053	.034	.068	.045	.029	.047	.032	.021	.027	.019	.012	.009	.006	.004	
7.0	.075	.047	.028	.064	.041	.025	.044	.029	.018	.026	.017	.010	.008	.006	.003	
8.0	.071	.043	.024	.061	.037	.021	.042	.026	.015	.024	.016	.009	.008	.005	.003	
9.0	.067	.040	.021	.058	.034	.018	.040	.024	.013	.023	.014	.008	.008	.005	.003	
10.0	.064	.037	.019	.055	.032	.016	.038	.022	.012	.022	.013	.007	.007	.004	.002	

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:GW CSSRMU.CM-M6MF-XX37-1 Ra:90
LENS:PM-0142B-007-056 38R
NOT DRIVER:DC 24V

30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:23.997V I:0.0792A P:1.9006W PF:1.0000 Freq:49.99Hz Lamp Flux:188.78x1 lm										
NAME: 2417.238					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2603180030		
MFR.: RISE					SUR.: 0.00005024m2			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	31.3	32.2	31.5	32.4	32.6	32.8	33.8	33.0	33.9	34.1
3H	31.3	32.1	31.5	32.3	32.5	32.8	33.7	33.1	33.9	34.1
4H	31.2	32.0	31.5	32.3	32.5	32.7	33.6	33.0	33.8	34.0
6H	31.1	31.9	31.4	32.2	32.4	32.7	33.4	33.0	33.7	33.9
8H	31.1	31.9	31.4	32.1	32.4	32.6	33.4	32.9	33.6	33.9
12H	31.1	31.8	31.4	32.0	32.3	32.6	33.3	32.9	33.6	33.8
4H 2H	31.2	32.0	31.5	32.3	32.5	32.7	33.5	32.9	33.7	33.9
3H	31.2	31.9	31.5	32.2	32.5	32.7	33.4	33.0	33.7	33.9
4H	31.2	31.8	31.5	32.1	32.4	32.6	33.3	33.0	33.6	33.9
6H	31.1	31.7	31.5	32.0	32.4	32.6	33.1	32.9	33.5	33.8
8H	31.1	31.6	31.5	32.0	32.3	32.5	33.1	32.9	33.4	33.8
12H	31.0	31.5	31.5	31.9	32.3	32.5	33.0	32.9	33.3	33.7
8H 4H	31.1	31.6	31.5	32.0	32.3	32.5	33.0	32.9	33.4	33.8
6H	31.0	31.5	31.5	31.9	32.3	32.5	32.9	32.9	33.3	33.7
8H	31.0	31.4	31.4	31.8	32.2	32.4	32.8	32.9	33.2	33.7
12H	30.9	31.3	31.4	31.7	32.2	32.4	32.7	32.8	33.1	33.6
12H 4H	31.0	31.5	31.4	31.9	32.3	32.5	32.9	32.9	33.3	33.7
6H	31.0	31.4	31.4	31.8	32.2	32.4	32.8	32.9	33.2	33.6
8H	30.9	31.3	31.4	31.7	32.2	32.4	32.7	32.8	33.1	33.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.9 / - 4.0					+ 2.4 / - 3.8				
1.5H	+ 2.7 / - 2.8					+ 3.6 / - 3.4				
2.0H	+ 3.3 / - 3.0					+ 4.2 / - 4.0				

CIE Pub.117, 188.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -5.8)
Area: 5.024e-005 m2

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30minutes warm-up

UTILIZATION FACTORS TABLE

Test:U:23.997V I:0.0792A P:1.9006W PF:1.0000 Freq:49.99Hz Lamp Flux:188.78x1 lm		
NAME: 2417.238	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603180030
MFR.: RISE	SUR.: 0.00005024m2	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	57	52	49	56	52	49	56	52	49	47
0.80	62	58	55	62	58	55	61	57	55	52
1.00	65	61	59	65	61	59	64	61	58	55
1.25	68	65	62	68	64	62	66	63	61	58
1.50	70	67	65	70	66	64	68	65	63	60
2.00	72	69	67	72	69	67	70	67	66	62
2.50	74	71	69	73	70	68	70	69	67	63
3.00	75	72	70	74	71	70	71	70	68	64
4.00	76	74	73	75	73	72	72	71	70	65
5.00	77	76	74	76	74	73	73	72	71	66
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

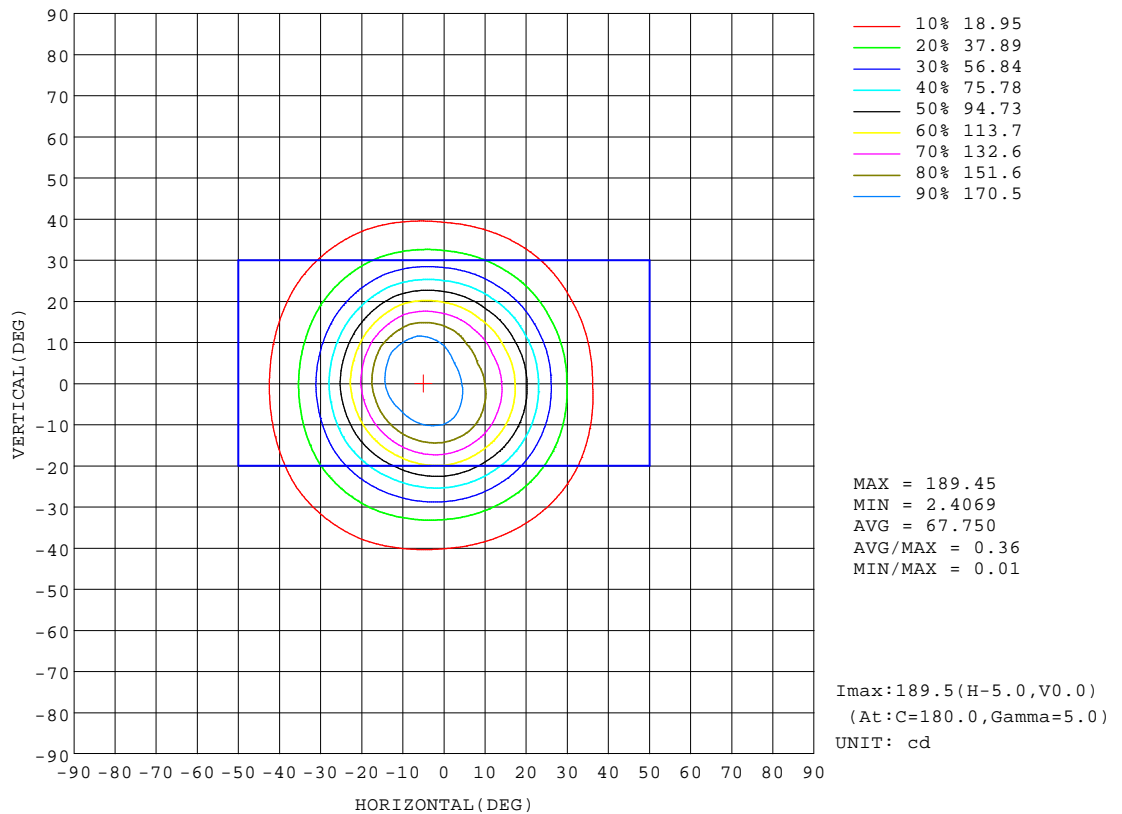
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ISOCANDELA DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2603180030
MFR.: RISE	SUR.: 0.00005024m2	Shielding Angle:



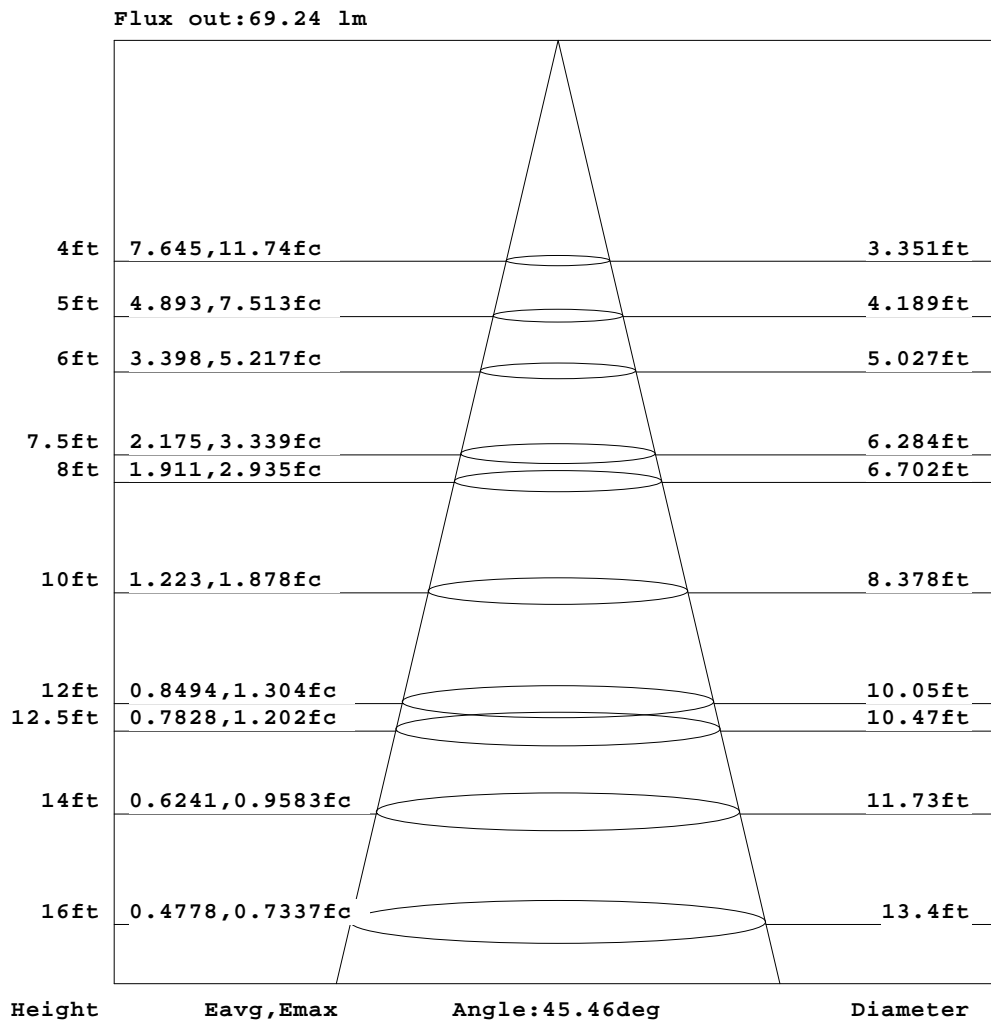
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AAI Figure

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SPEC.: 3000K	DIM.:	SERIAL No.: 2603180030
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Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

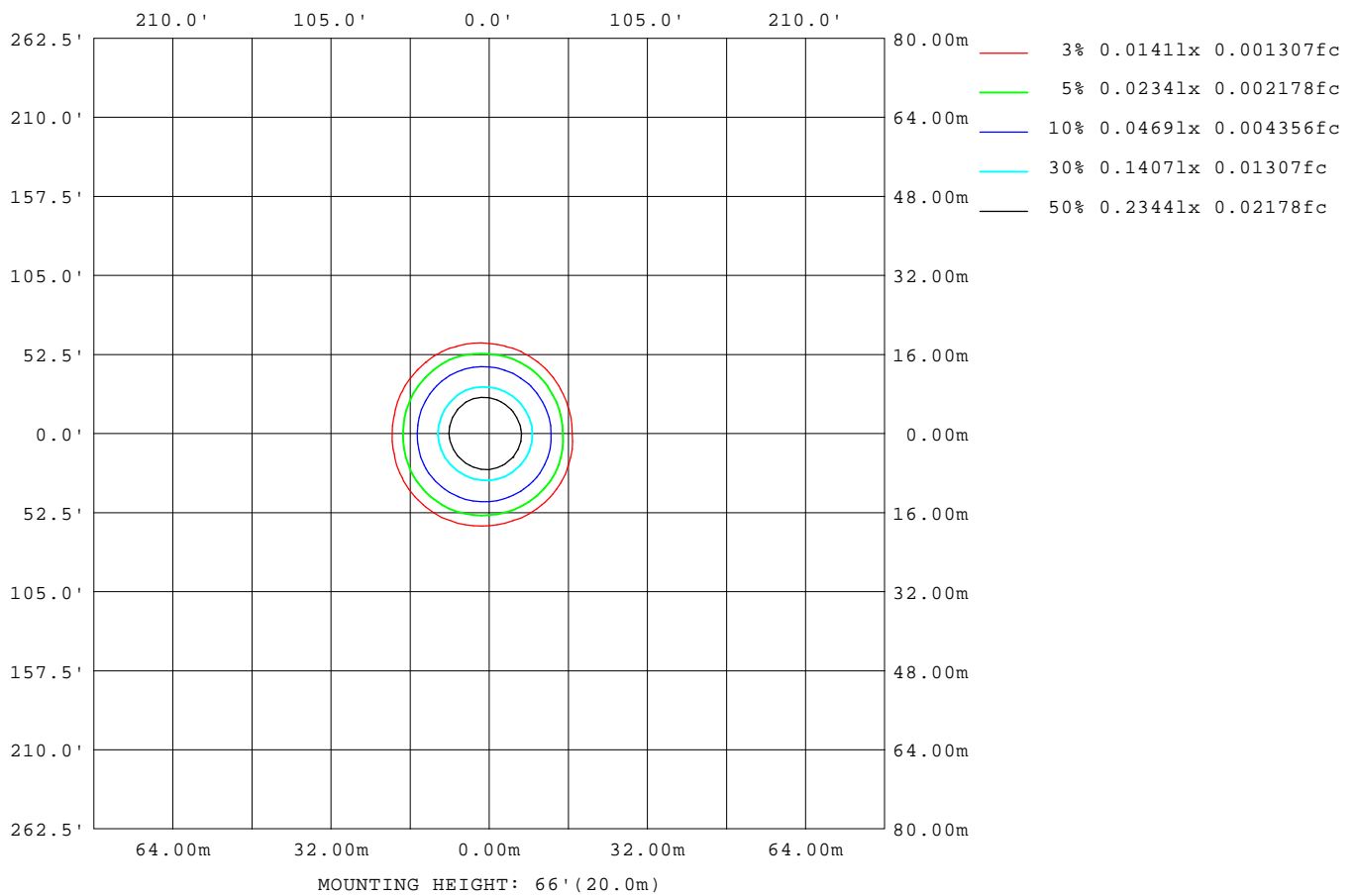
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ISOLUX DIAGRAM

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NOT DRIVER:DC 24V

30minutes warm-up

LED Avg.L Report

Test:U:23.997V I:0.0792A P:1.9006W PF:1.0000 Freq:49.99Hz Lamp Flux:188.78x1 lm		
NAME: 2417.238	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603180030
MFR.: RISE	SUR.: 0.00005024m2	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	63583
L_0~180(75)av	30213
L_0~180(85)av	8831
L_90~270(65)av	64958
L_90~270(75)av	29930
L_90~270(85)av	7944
L_45(65)av	63344
L_45(75)av	28442
L_45(85)av	7142

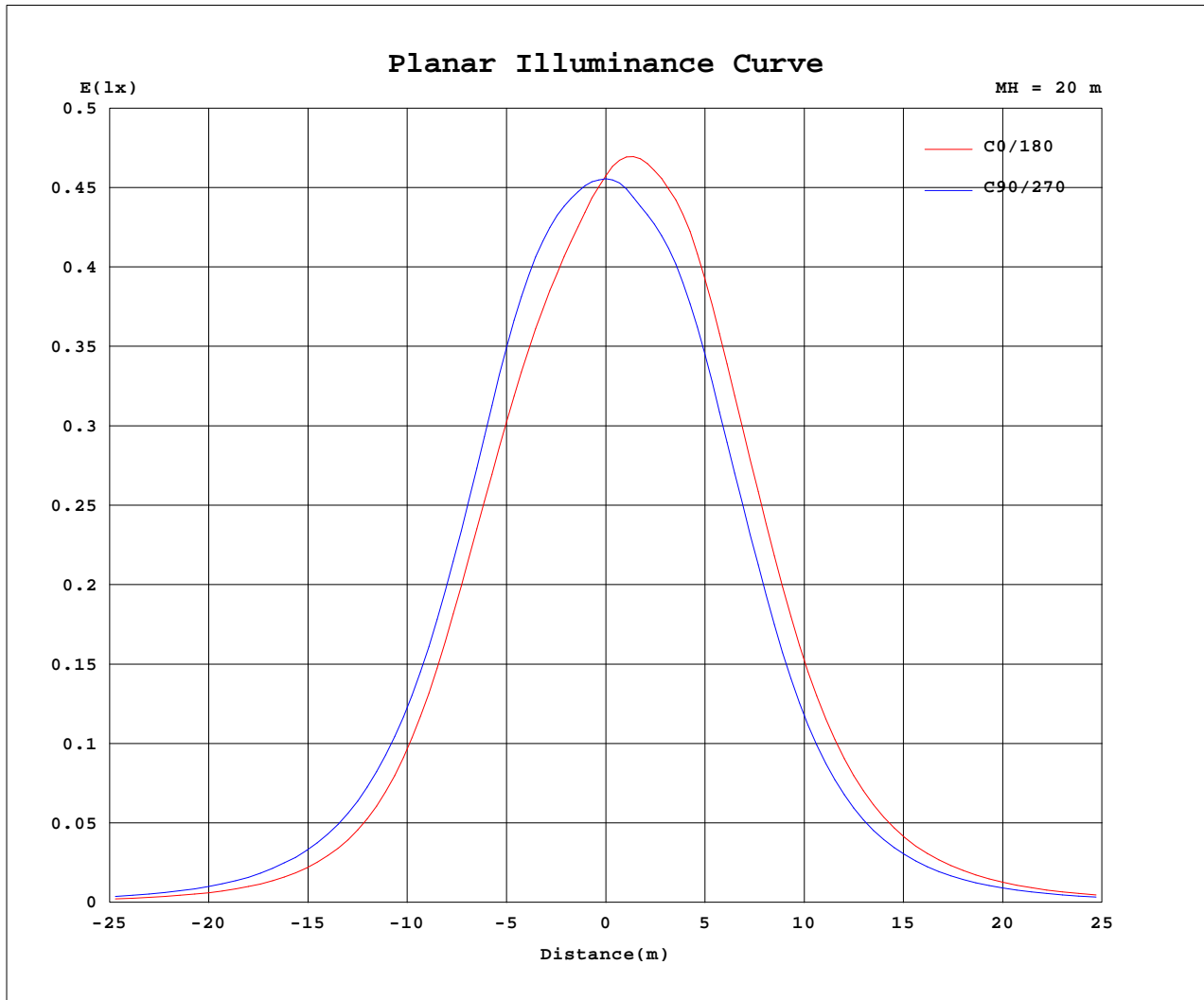
Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2026-3-18

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:GW CSSRMU.CM-M6MF-XX37-1 Ra:90
LENS:PM-0142B-007-056 38R
NOT DRIVER:DC 24V

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: 2026-3-18

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: GW CSSRMU.CM-M6MF-XX37-1 Ra:90
 LENS: PM-0142B-007-056 38R
 NOT DRIVER: DC 24V

30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.997V I:0.0792A P:1.9006W PF:1.0000 Freq:49.99Hz Lamp Flux:188.78x1 lm		
NAME: 2417.238	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603180030
MFR.: RISE	SUR.: 0.00005024m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	183	183	183	183	183	183	183	183	183	183	183	183						
5	168	171	175	180	184	188	189	188	184	178	172	168						
10	151	156	164	171	175	178	185	186	180	169	156	150						
15	127	131	139	148	154	161	167	169	161	146	133	126						
20	95.9	99.7	104	113	119	127	134	134	127	112	99.6	94.8						
25	62.9	66.7	71.6	78.2	83.2	91.5	96.5	93.5	88.7	75.8	67.5	63.2						
30	37.3	41.5	45.5	50.8	55.9	61.9	63.1	60.9	56.6	47.7	41.9	38.0						
35	21.5	25.0	27.9	31.5	36.6	39.7	39.1	37.8	34.9	29.0	25.3	22.2						
40	12.2	14.8	16.9	19.3	23.2	24.8	23.9	23.5	21.6	17.4	15.1	12.9						
45	7.09	8.68	10.1	11.5	14.2	15.2	14.4	14.3	13.1	10.5	8.99	7.61						
50	4.26	5.14	5.98	6.94	8.60	9.13	8.65	8.63	7.92	6.29	5.37	4.52						
55	2.63	3.08	3.53	4.17	5.00	5.35	5.13	5.00	4.68	3.78	3.21	2.73						
60	1.64	1.85	2.08	2.48	2.87	3.05	2.98	2.86	2.70	2.27	1.91	1.64						
65	1.01	1.09	1.21	1.43	1.59	1.68	1.69	1.59	1.52	1.32	1.12	0.97						
70	0.59	0.63	0.67	0.79	0.85	0.89	0.92	0.85	0.81	0.74	0.63	0.56						
75	0.32	0.33	0.34	0.40	0.42	0.44	0.47	0.42	0.41	0.38	0.32	0.29						
80	0.15	0.15	0.15	0.17	0.18	0.19	0.21	0.18	0.18	0.17	0.14	0.13						
85	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.04	0.03	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
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Operators:zoe
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