

Luminaire Photograph



Light Output Ratio:	52.0%	
Luminaire Power:	1.896 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: 2026-3-17

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: GW CSSRMU.CM-M6MF-XX37-1 Ra:90
LENS: PM-0142-007-056 15R
NOT DRIVER: DC 24V

30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

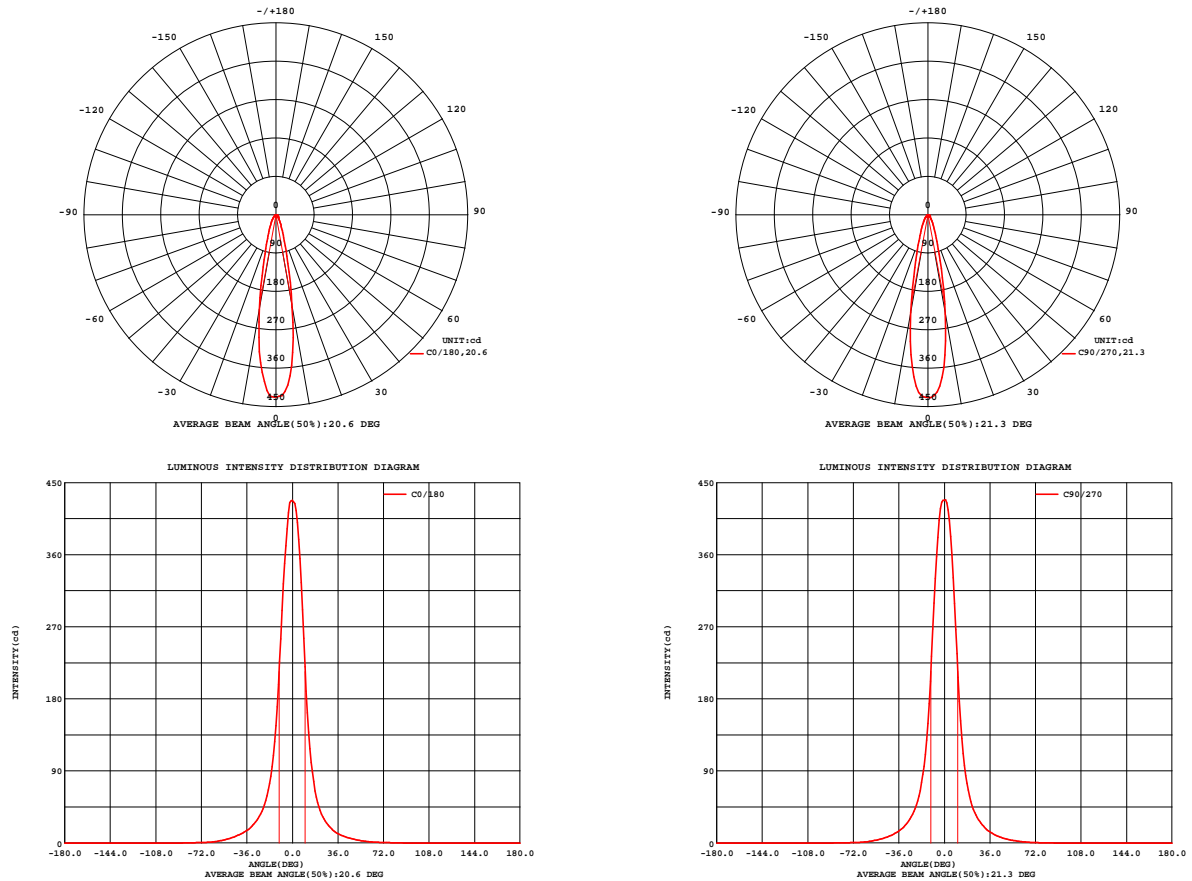


Fig. C0/C180

Fig. C90/C270

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2026-3-17

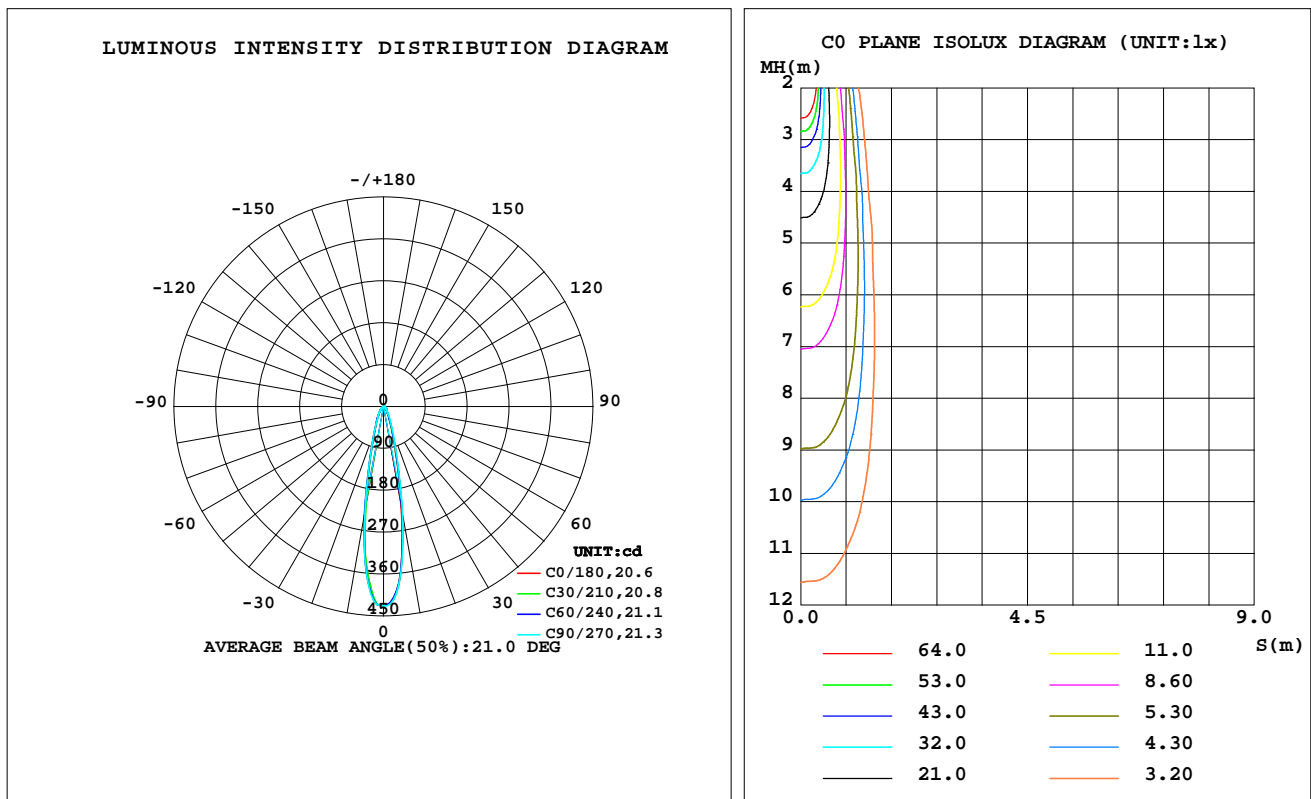
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NOT DRIVER: DC 24V

30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.997V I:0.0790A P:1.8958W PF:1.0000 Freq:49.99Hz Lamp Flux:188.78x1 lm		
NAME: 2417.238	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603180028
MFR.: RISE	SUR.: 0.00005024m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 51.78 lm/W			
MODEL	OSRAM	I _{max} (cd)	428.7	S/MH(C0/180)	0.36
NOMINAL POWER(W)	2	LOR(%)	52.0	S/MH(C90/270)	0.36
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	98.166	UP,DN(C0-180)	0.0,25.7
NOMINAL FLUX(lm)	188.78	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,26.3
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	24	down(%)	52.0	CIBSE SHR MAX	0.30



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NOT DRIVER:DC 24V

30minutes warm-up

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	220.2	229.2	236.4	230.2	226.5	229.0	233.2	227.5	0- 10	31.17	31.17	31.8,16.5
20	50.55	51.98	58.62	60.77	59.12	56.94	58.44	53.63	10- 20	31.48	62.66	63.8,33.2
30	19.27	19.34	22.71	24.55	24.24	23.69	23.51	21.57	20- 30	16.06	78.72	80.2,41.7
40	8.865	8.642	10.30	11.02	11.92	11.32	11.12	9.944	30- 40	9.547	88.27	89.9,46.8
50	4.120	4.113	4.539	4.719	5.421	5.232	5.003	4.414	40- 50	5.493	93.76	95.5,49.7
60	1.781	1.702	1.921	1.916	1.976	1.868	1.815	1.767	50- 60	2.773	96.54	98.3,51.1
70	0.6869	0.5939	0.6172	0.6655	0.6201	0.5369	0.5550	0.6021	60- 70	1.069	97.61	99.4,51.7
80	0.3201	0.2431	0.2570	0.3197	0.2958	0.2453	0.2446	0.2832	70- 80	0.4443	98.05	99.9,51.9
90	0	0	0	0	0	0	0	0	80- 90	0.1149	98.17	100,52
100	0	0	0	0	0	0	0	0	90-100	0	98.17	100,52
110	0	0	0	0	0	0	0	0	100-110	0	98.17	100,52
120	0	0	0	0	0	0	0	0	110-120	0	98.17	100,52
130	0	0	0	0	0	0	0	0	120-130	0	98.17	100,52
140	0	0	0	0	0	0	0	0	130-140	0	98.17	100,52
150	0	0	0	0	0	0	0	0	140-150	0	98.17	100,52
160	0	0	0	0	0	0	0	0	150-160	0	98.17	100,52
170	0	0	0	0	0	0	0	0	160-170	0	98.17	100,52
180	0	0	0	0	0	0	0	0	170-180	0	98.17	100,52
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:GW CSSRMU.CM-M6MF-XX37-1 Ra:90
LENS:PM-0142-007-056 15R
NOT DRIVER:DC 24V

30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:23.997V I:0.0790A P:1.8958W PF:1.0000 Freq:49.99Hz
Lamp Flux:188.78x1 lm

NAME: 2417.238

TYPE:

WEIGHT:

SPEC.: 3000K

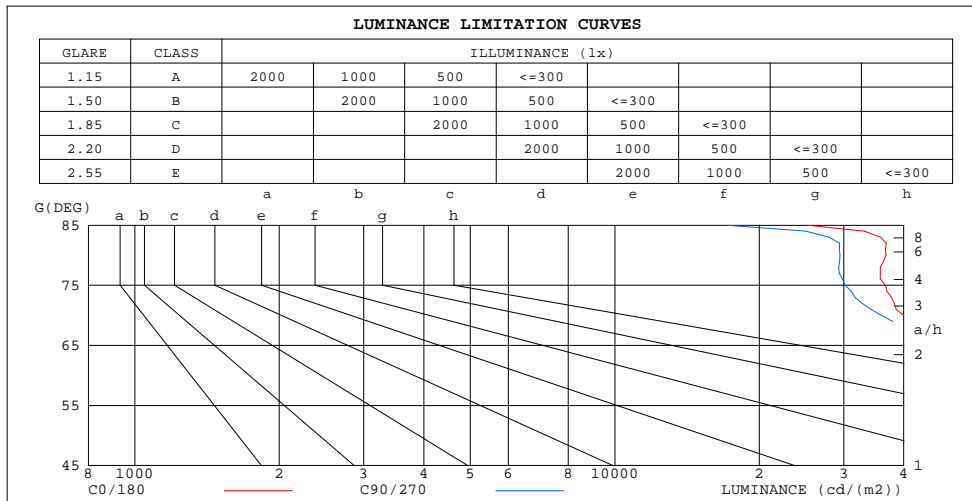
DIM.:

SERIAL No.: 2603180028

MFR.: RISE

SUR.: 0.00005024m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	G(270)	
85	25334	17231
80	36713	29429
75	36616	30180
70	39998	35889
65	49358	51385
60	70919	76421
55	94833	104342
50	127658	140415
45	173008	191166

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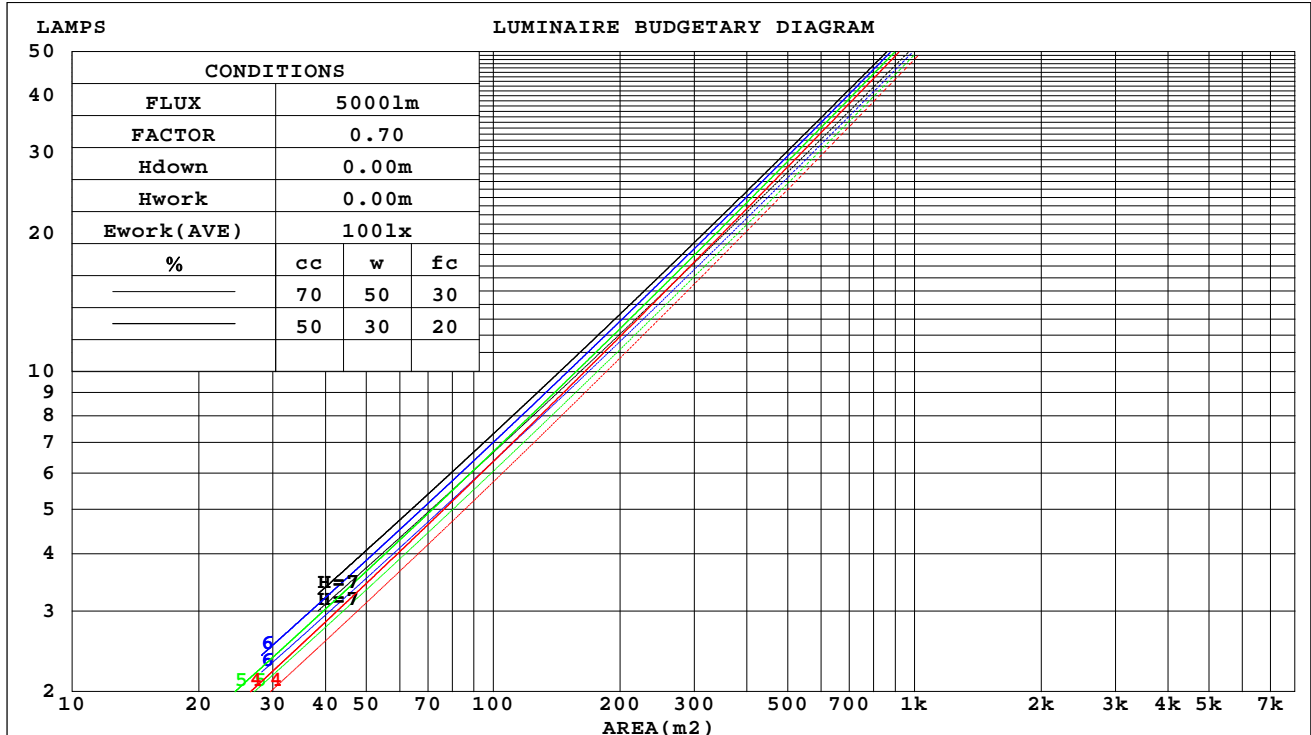
30minutes warm-up

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.: 2603180028
MFR.: RISE	SUR.: 0.00005024m2	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															



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30minutes warm-up

WEC AND CCEC

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NAME: 2417.238	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603180028
MFR.: RISE	SUR.: 0.00005024m2	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	.083	.047	.015	.080	.045	.014	.073	.042	.013	.067	.039	.012	.062	.036	.012		
2.0	.078	.043	.013	.076	.042	.013	.070	.039	.012	.065	.037	.011	.060	.034	.011		
3.0	.074	.039	.012	.071	.038	.011	.067	.036	.011	.062	.034	.010	.058	.032	.010		
4.0	.069	.036	.011	.067	.035	.010	.063	.034	.010	.060	.032	.010	.056	.031	.009		
5.0	.065	.033	.010	.063	.033	.009	.060	.031	.009	.057	.030	.009	.054	.029	.009		
6.0	.062	.031	.009	.060	.030	.009	.057	.029	.009	.054	.028	.008	.052	.027	.008		
7.0	.058	.029	.008	.057	.028	.008	.055	.028	.008	.052	.027	.008	.050	.026	.008		
8.0	.055	.027	.008	.054	.027	.008	.052	.026	.007	.050	.025	.007	.048	.025	.007		
9.0	.053	.026	.007	.052	.025	.007	.050	.025	.007	.048	.024	.007	.046	.023	.007		
10.0	.050	.024	.007	.049	.024	.007	.048	.023	.007	.046	.023	.006	.044	.022	.006		

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	.099	.099	.099	.085	.085	.085	.058	.058	.058	.033	.033	.033	.011	.011	.011		
1.0	.088	.082	.076	.076	.070	.065	.052	.048	.045	.030	.028	.026	.010	.009	.009		
2.0	.080	.069	.060	.068	.059	.052	.047	.041	.036	.027	.024	.021	.009	.008	.007		
3.0	.073	.059	.048	.062	.051	.042	.043	.035	.029	.025	.021	.017	.008	.007	.006		
4.0	.067	.051	.039	.057	.044	.034	.039	.031	.024	.023	.018	.014	.007	.006	.005		
5.0	.062	.045	.033	.053	.039	.028	.036	.027	.020	.021	.016	.012	.007	.005	.004		
6.0	.057	.040	.027	.049	.035	.024	.034	.024	.017	.020	.014	.010	.006	.005	.003		
7.0	.053	.036	.023	.046	.031	.020	.032	.022	.014	.018	.013	.009	.006	.004	.003		
8.0	.050	.032	.020	.043	.028	.018	.030	.020	.012	.017	.012	.007	.006	.004	.002		
9.0	.047	.030	.018	.041	.026	.015	.028	.018	.011	.016	.011	.006	.005	.003	.002		
10.0	.045	.027	.015	.038	.024	.013	.027	.017	.010	.016	.010	.006	.005	.003	.002		

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Interval: 1.0DEG
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Humidity:65.0%
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LENS:PM-0142-007-056 15R
NOT DRIVER:DC 24V

30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:23.997V I:0.0790A P:1.8958W PF:1.0000 Freq:49.99Hz Lamp Flux:188.78x1 lm										
NAME: 2417.238					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2603180028		
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	29.7	30.5	29.9	30.7	30.8	29.9	30.7	30.1	30.8	31.0
3H	29.9	30.7	30.2	30.9	31.0	30.0	30.7	30.2	30.9	31.1
4H	30.0	30.7	30.3	30.9	31.1	30.0	30.7	30.3	30.9	31.1
6H	30.0	30.7	30.3	30.9	31.2	30.0	30.7	30.3	30.9	31.1
8H	30.1	30.7	30.4	31.0	31.2	30.0	30.6	30.3	30.9	31.1
12H	30.1	30.7	30.4	30.9	31.2	30.0	30.6	30.3	30.9	31.1
4H 2H	29.7	30.4	30.0	30.7	30.9	29.9	30.6	30.2	30.8	31.0
3H	30.0	30.7	30.4	30.9	31.2	30.0	30.6	30.3	30.9	31.2
4H	30.2	30.7	30.5	31.0	31.3	30.1	30.6	30.4	30.9	31.2
6H	30.3	30.8	30.6	31.1	31.4	30.1	30.6	30.5	30.9	31.3
8H	30.3	30.8	30.7	31.1	31.5	30.1	30.6	30.5	30.9	31.3
12H	30.3	30.8	30.8	31.1	31.5	30.1	30.5	30.5	30.9	31.3
8H 4H	30.1	30.6	30.5	30.9	31.3	30.0	30.5	30.4	30.8	31.2
6H	30.3	30.6	30.7	31.0	31.4	30.1	30.5	30.5	30.9	31.3
8H	30.4	30.7	30.8	31.1	31.5	30.1	30.5	30.6	30.9	31.3
12H	30.4	30.7	30.9	31.1	31.6	30.1	30.4	30.6	30.9	31.3
12H 4H	30.1	30.5	30.5	30.8	31.2	30.0	30.4	30.4	30.8	31.1
6H	30.2	30.6	30.7	31.0	31.4	30.1	30.4	30.5	30.8	31.3
8H	30.3	30.6	30.8	31.1	31.5	30.1	30.4	30.6	30.9	31.3
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.0 / - 1.5					+ 1.6 / - 1.9				
1.5H	+ 1.4 / - 0.9					+ 2.3 / - 1.8				
2.0H	+ 2.1 / - 1.7					+ 3.0 / - 3.4				

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

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NAME: 2417.238	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603180028
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	44	41	39	44	41	39	44	40	39	37
0.80	48	45	43	48	45	43	47	45	43	41
1.00	51	48	46	50	47	46	50	47	45	43
1.25	53	50	48	52	50	48	51	49	48	45
1.50	55	52	50	54	52	50	53	51	49	47
2.00	56	54	52	55	53	52	54	52	51	48
2.50	57	55	53	56	54	53	55	53	52	49
3.00	58	56	54	57	55	54	55	54	53	49
4.00	59	57	56	58	57	55	56	55	54	50
5.00	60	58	57	59	57	57	56	56	55	51
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

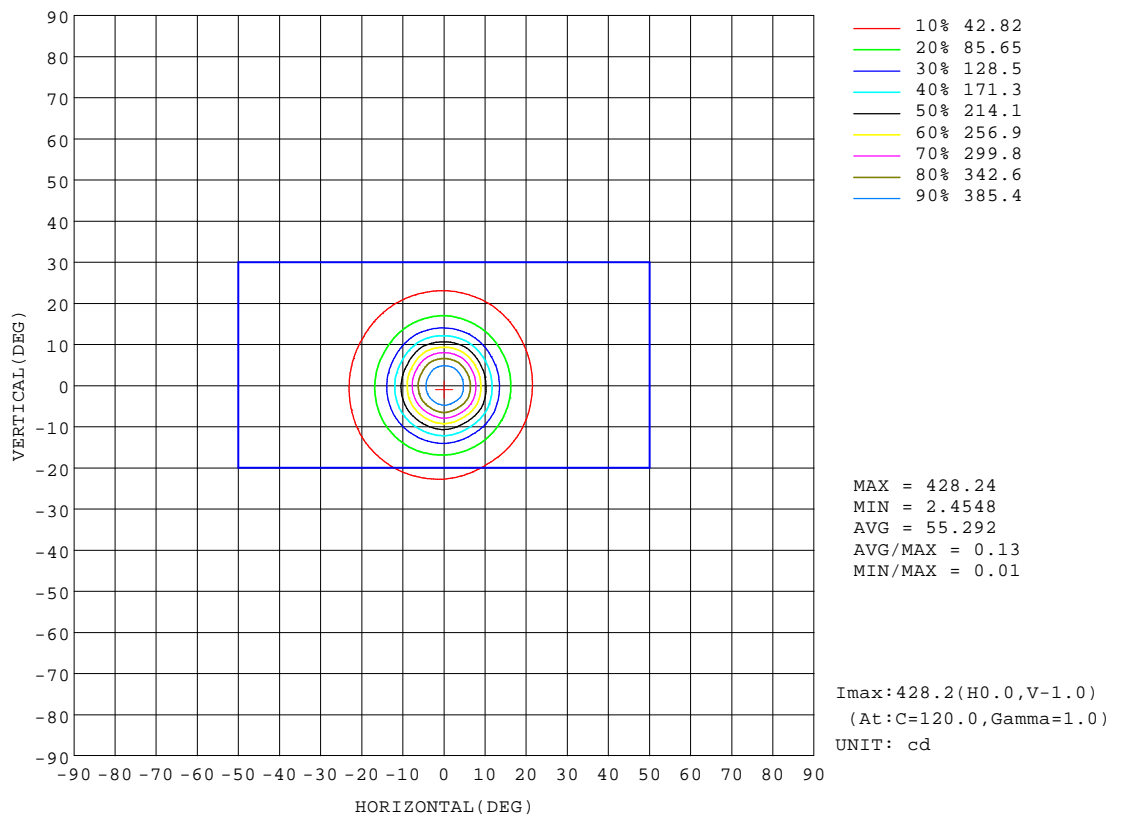
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ISOCANDELA DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2603180028
MFR.: RISE	SUR.: 0.00005024m2	Shielding Angle:



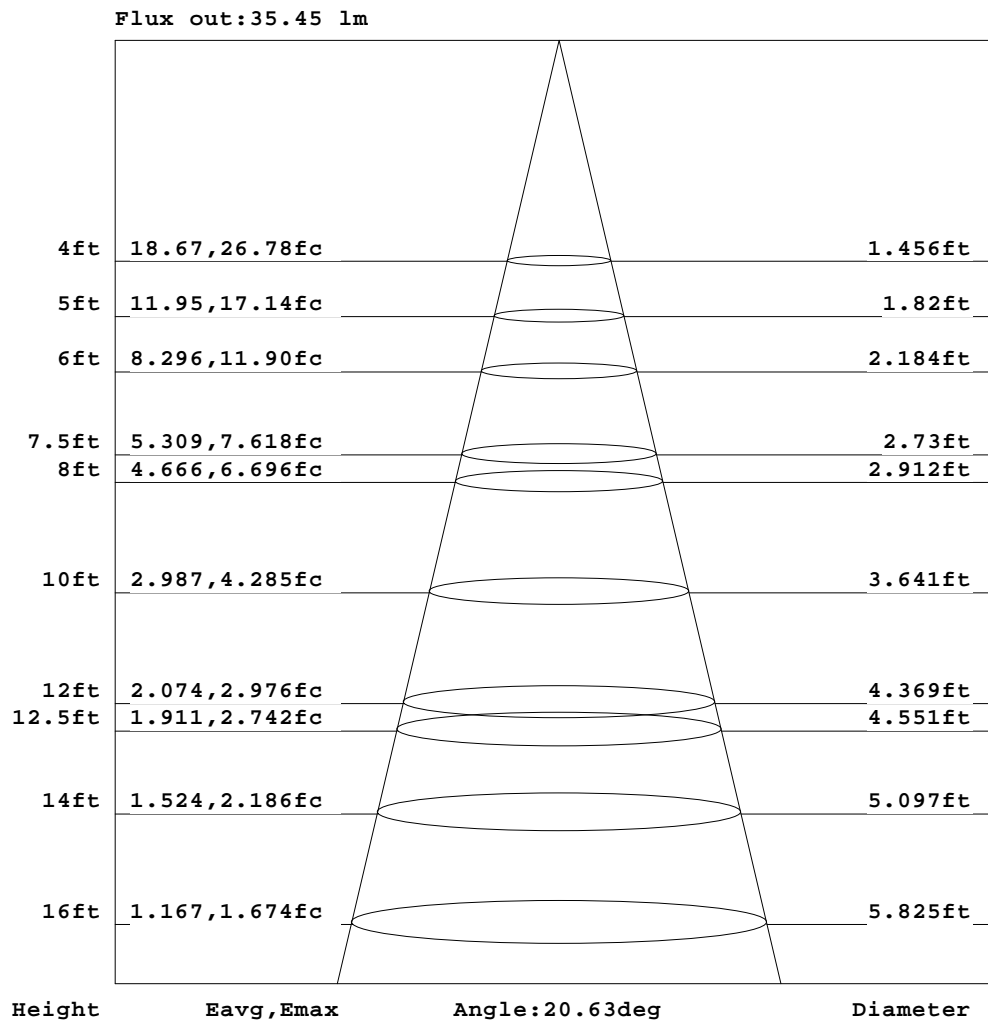
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AAI Figure

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

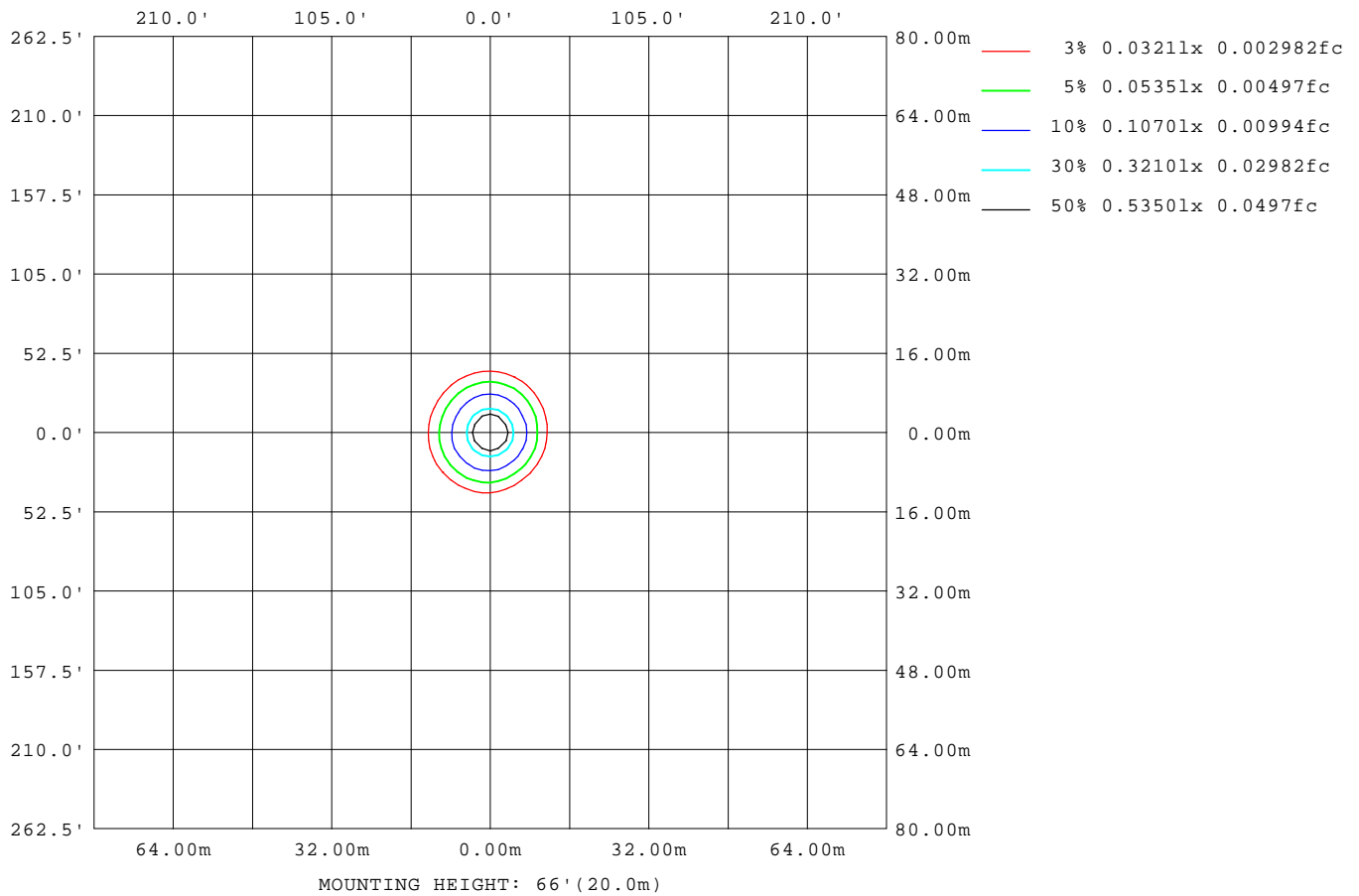
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30minutes warm-up

ISOLUX DIAGRAM

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MFR.: RISE	SUR.: 0.00005024m2	Shielding Angle:



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Operators:zoe
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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:GW CSSRMU.CM-M6MF-XX37-1 Ra:90
LENS:PM-0142-007-056 15R
NOT DRIVER:DC 24V

30minutes warm-up

LED Avg.L Report

Test:U:23.997V I:0.0790A P:1.8958W PF:1.0000 Freq:49.99Hz Lamp Flux:188.78x1 lm		
NAME: 2417.238	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603180028
MFR.: RISE	SUR.: 0.00005024m2	Shielding Angle:

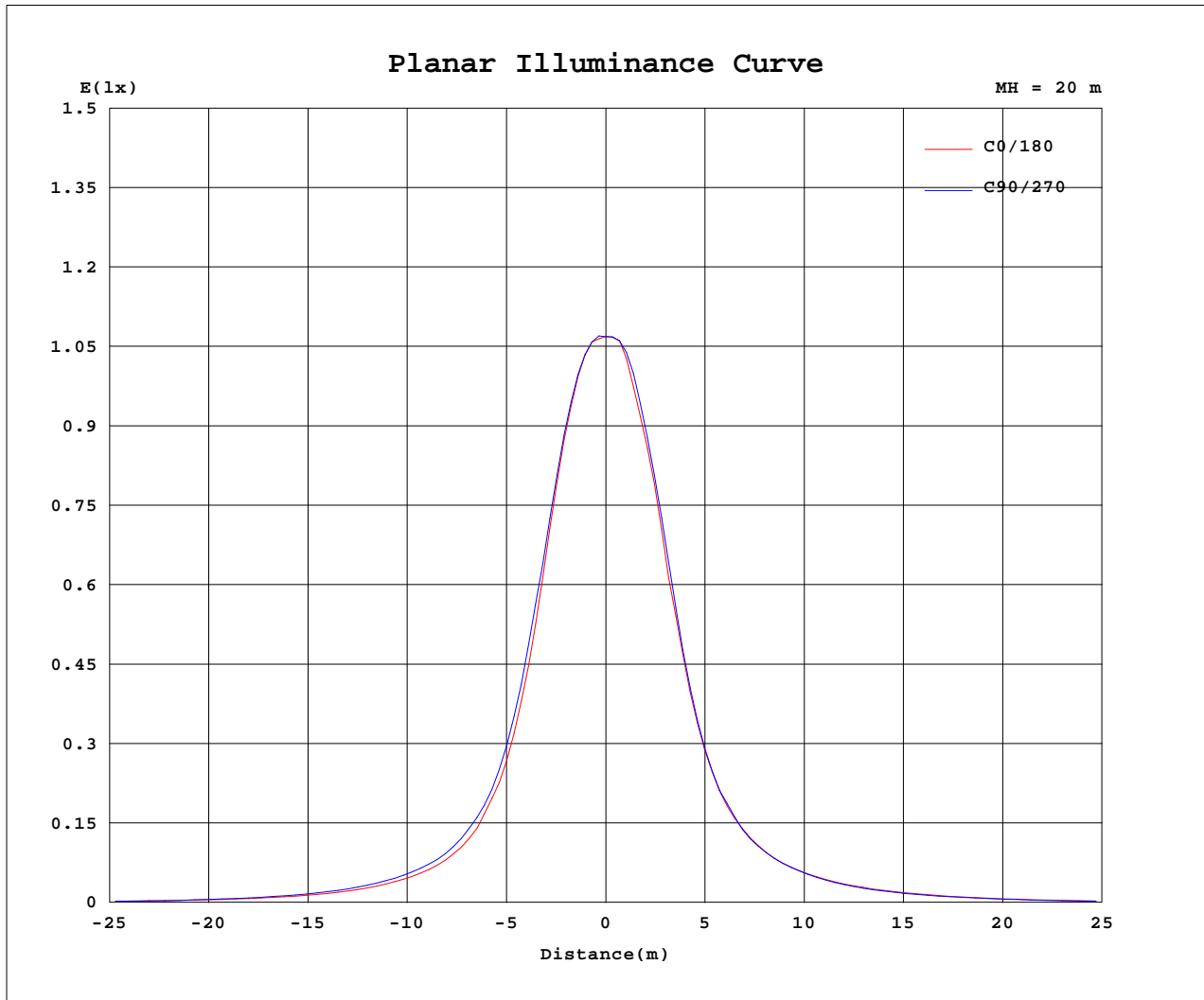
AvgL	cd/m2
L_0~180(65)av	48832
L_0~180(75)av	34964
L_0~180(85)av	22839
L_90~270(65)av	48498
L_90~270(75)av	29498
L_90~270(85)av	16328
L_45(65)av	47254
L_45(75)av	31319
L_45(85)av	18210

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2026-3-17

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:GW CSSRMU.CM-M6MF-XX37-1 Ra:90
LENS:PM-0142-007-056 15R
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: 2026-3-17

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: GW CSSRMU.CM-M6MF-XX37-1 Ra:90
LENS: PM-0142-007-056 15R
NOT DRIVER: DC 24V

30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.997V I:0.0790A P:1.8958W PF:1.0000 Freq:49.99Hz Lamp Flux:188.78x1 lm		
NAME: 2417.238	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603180028
MFR.: RISE	SUR.: 0.00005024m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	428	428	428	428	428	428	428	428	428	428	428	428						
5	379	384	381	383	377	376	371	371	380	381	382	380						
10	220	232	226	236	230	231	226	220	238	233	234	221						
15	100	105	105	112	112	112	109	106	112	110	107	99.6						
20	50.6	51.4	52.6	58.6	60.1	61.4	59.1	55.7	58.1	58.4	55.7	51.5						
25	30.0	30.1	30.9	34.8	36.7	37.4	36.0	34.9	35.8	35.9	34.5	31.5						
30	19.3	19.0	19.7	22.7	24.2	24.9	24.2	23.5	23.9	23.5	22.7	20.5						
35	12.8	12.1	12.9	15.1	15.9	16.6	16.7	16.2	16.2	16.0	15.2	13.7						
40	8.86	8.54	8.74	10.3	10.8	11.2	11.9	11.3	11.3	11.1	10.5	9.42						
45	6.14	5.91	6.05	6.80	7.04	7.30	8.18	7.88	7.78	7.57	6.98	6.32						
50	4.12	4.15	4.08	4.54	4.70	4.74	5.42	5.26	5.20	5.00	4.62	4.21						
55	2.73	2.88	2.57	3.01	3.25	2.99	3.46	3.34	3.30	3.21	3.03	2.69						
60	1.78	1.93	1.48	1.92	2.11	1.72	1.98	1.94	1.80	1.82	1.91	1.62						
65	1.05	1.23	0.78	1.09	1.31	0.88	1.03	1.02	0.86	0.97	1.11	0.87						
70	0.69	0.72	0.47	0.62	0.76	0.57	0.62	0.59	0.48	0.55	0.63	0.57						
75	0.48	0.43	0.33	0.39	0.49	0.44	0.43	0.39	0.34	0.37	0.42	0.43						
80	0.32	0.27	0.22	0.26	0.31	0.32	0.30	0.26	0.23	0.24	0.27	0.29						
85	0.11	0.08	0.06	0.08	0.08	0.11	0.09	0.06	0.06	0.07	0.09	0.10						
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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