

Luminaire Photograph



Light Output Ratio:	49.6%	
Luminaire Power:	13.68 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: 2024-8-7

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-30G1000-A-83 Ra:90
LENS: PM-1082 15R
DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

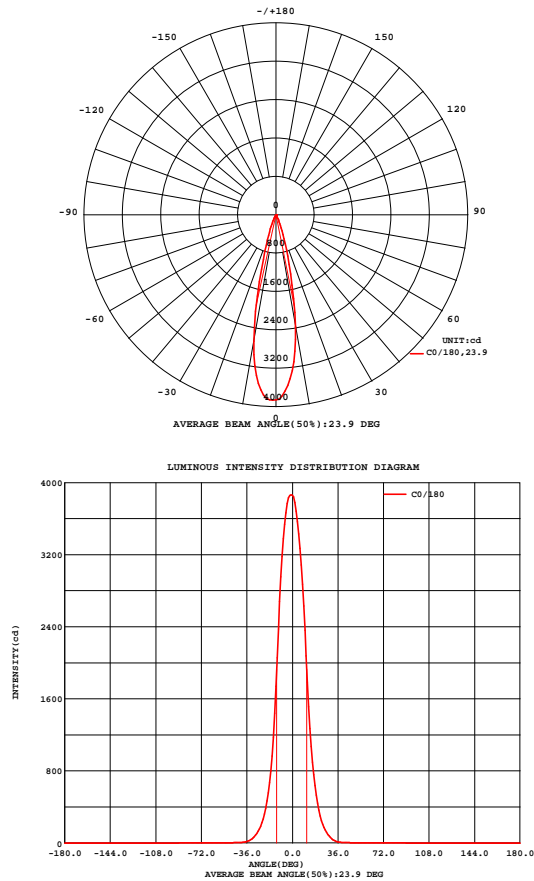


Fig. C0/C180

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-8-7

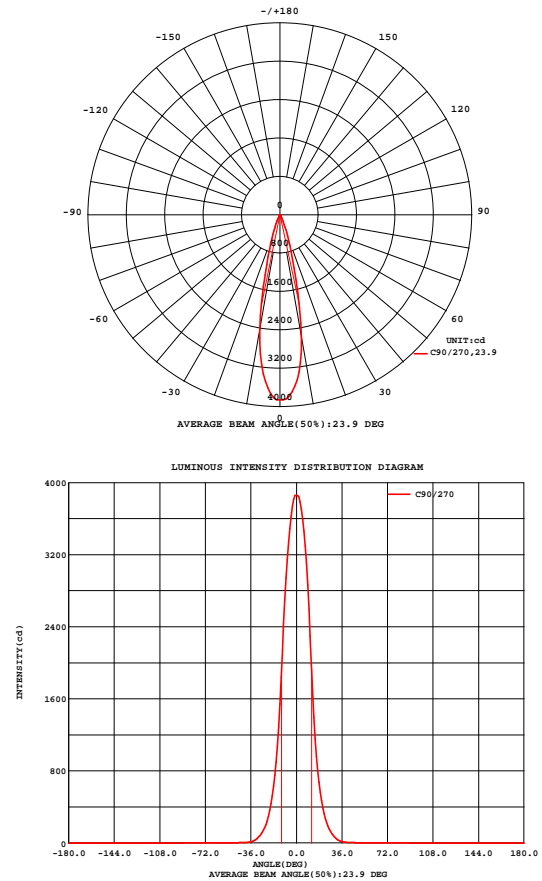


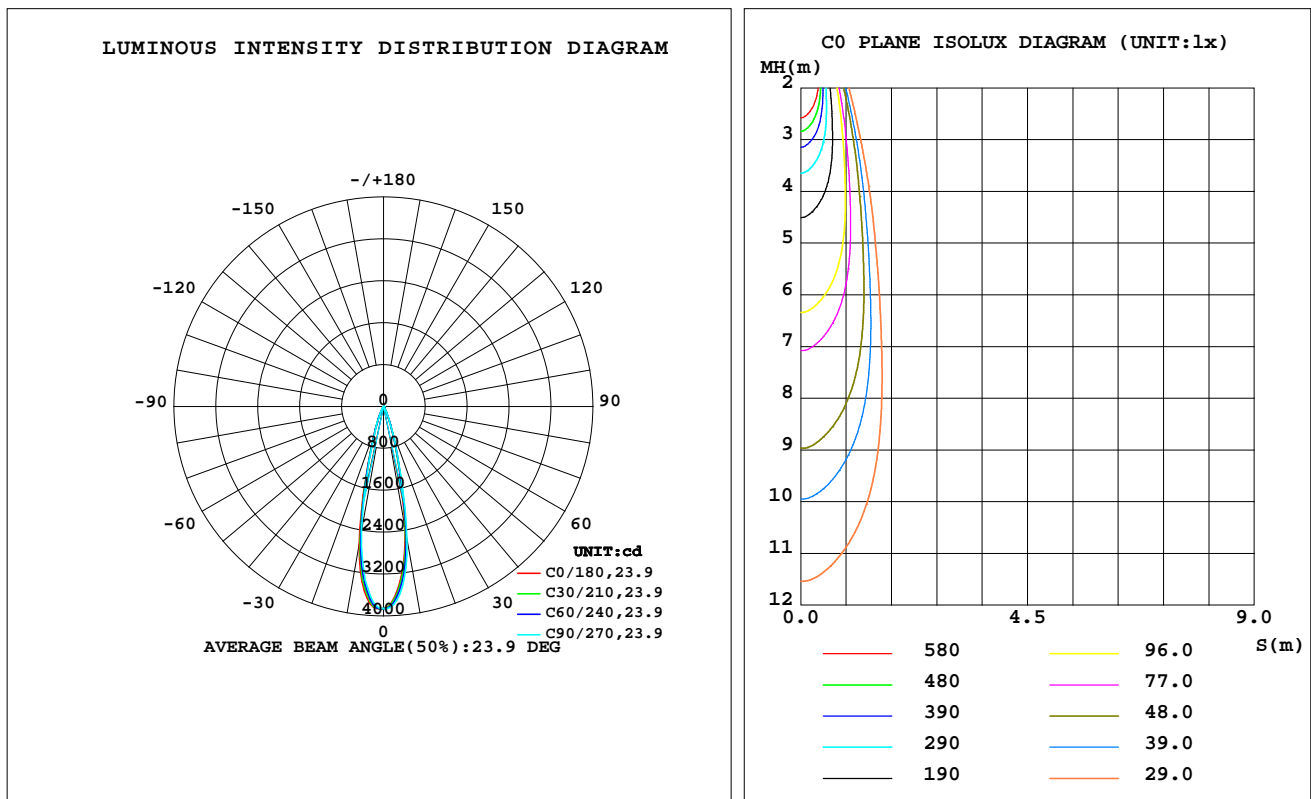
Fig. C90/C270

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-30G1000-A-83 Ra:90
LENS:PM-1082 15R
DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.18V I:0.0640A P:13.678W PF:0.9687 Freq:49.99Hz Lamp Flux:1490.38x1 lm		
NAME: 2318.112-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408070990
MFR.: RISE	SUR.: 0.001734065m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 54.05 lm/W			
MODEL	Bridgelux	Imax(cd)	3865	S/MH(C0/180)	0.39
NOMINAL POWER(W)	14	LOR(%)	49.6	S/MH(C90/270)	0.38
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	739.35	UP,DN(C0-180)	0.0,25.1
NOMINAL FLUX(lm)	1490.38	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,24.5
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	down(%)	49.6	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	2362	2462	2593	2681	2679	2565	2430	2361	0- 10	306.2	306.2	41.4,20.5
20	440.5	456.9	470.7	467.6	465.5	449.0	434.8	432.5	10- 20	325.5	631.7	85.4,42.4
30	62.04	64.39	68.98	71.20	70.25	65.91	61.83	60.43	20- 30	89.34	721.0	97.5,48.4
40	6.255	6.494	6.637	6.327	6.456	6.350	6.285	6.393	30- 40	14.68	735.7	99.5,49.4
50	1.485	1.499	1.573	1.499	2.013	1.631	1.591	1.378	40- 50	2.954	738.7	99.9,49.6
60	0.1844	0.1802	0.1938	0.1985	0.1974	0.1983	0.1972	0.1842	50- 60	0.4404	739.1	100,49.6
70	0.0913	0.0889	0.0974	0.0969	0.0996	0.0945	0.1025	0.0862	60- 70	0.1315	739.2	100,49.6
80	0.0596	0.0588	0.0878	0.0591	0.0574	0.0528	0.0664	0.0468	70- 80	0.0796	739.3	100,49.6
90	0	0	0	0	0	0	0	0	80- 90	0.0351	739.4	100,49.6
100	0	0	0	0	0	0	0	0	90-100	0	739.4	100,49.6
110	0	0	0	0	0	0	0	0	100-110	0	739.4	100,49.6
120	0	0	0	0	0	0	0	0	110-120	0	739.4	100,49.6
130	0	0	0	0	0	0	0	0	120-130	0	739.4	100,49.6
140	0	0	0	0	0	0	0	0	130-140	0	739.4	100,49.6
150	0	0	0	0	0	0	0	0	140-150	0	739.4	100,49.6
160	0	0	0	0	0	0	0	0	150-160	0	739.4	100,49.6
170	0	0	0	0	0	0	0	0	160-170	0	739.4	100,49.6
180	0	0	0	0	0	0	0	0	170-180	0	739.4	100,49.6
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Range: 0 - 180DEG
Interval: 1.0DEG
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Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
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DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.18V I:0.0640A P:13.678W PF:0.9687 Freq:49.99Hz
Lamp Flux:1490.38x1 lm

NAME: 2318.112-ACOT-70

TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

SERIAL No.: 2408070990

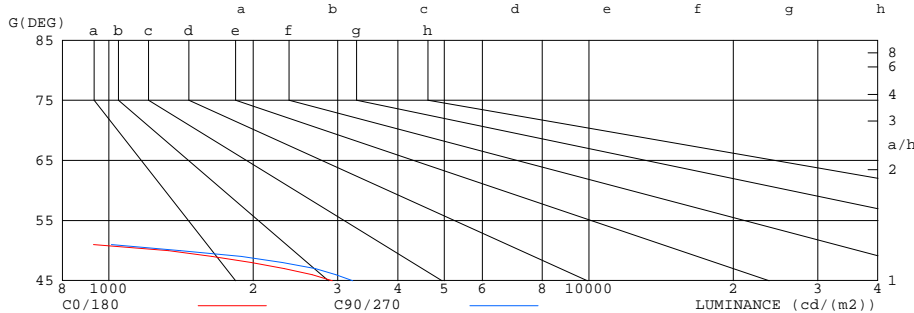
MFR.: RISE

SUR.: 0.001734065m2

Shielding Angle:

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



LUMINANCE cd/(m2)		
G(180)	G(270)	
85	174	467
80	198	292
75	171	194
70	154	164
65	169	178
60	213	223
55	321	350
50	1332	1411
45	2922	3224

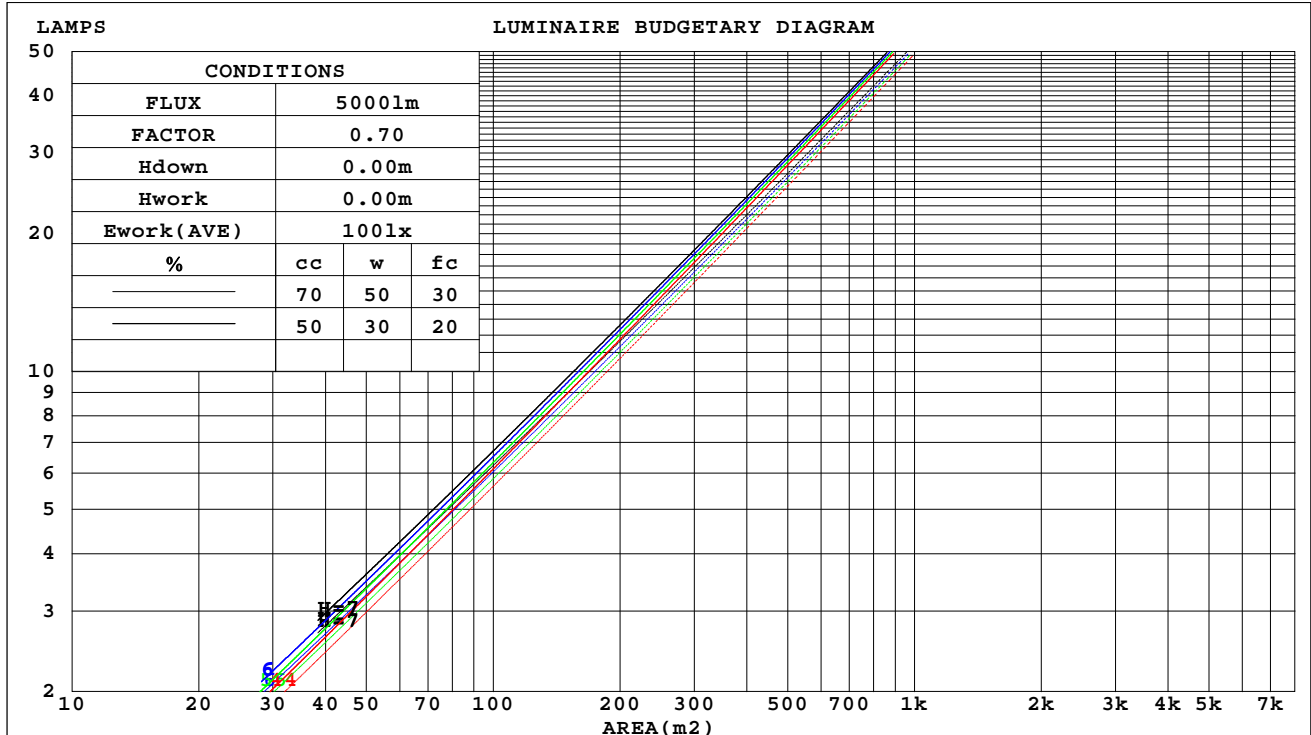
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2408070990
MFR.: RISE	SUR.: 0.001734065m2	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: 2318.112-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408070990
MFR.: RISE	SUR.: 0.001734065m2	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	.031	.010	.049	.028	.009	.044	.026	.008		
2.0	.059	.032	.010	.057	.031	.010	.051	.029	.009	.047	.026	.008	.043	.024	.008		
3.0	.055	.029	.009	.053	.028	.008	.048	.026	.008	.045	.024	.008	.041	.023	.007		
4.0	.051	.027	.008	.049	.026	.008	.046	.024	.007	.043	.023	.007	.040	.022	.007		
5.0	.048	.025	.007	.047	.024	.007	.044	.023	.007	.041	.022	.006	.038	.020	.006		
6.0	.045	.023	.007	.044	.022	.006	.042	.021	.006	.039	.020	.006	.037	.019	.006		
7.0	.043	.021	.006	.042	.021	.006	.040	.020	.006	.038	.019	.006	.036	.019	.005		
8.0	.041	.020	.006	.040	.020	.006	.038	.019	.005	.036	.018	.005	.035	.018	.005		
9.0	.039	.019	.005	.038	.019	.005	.037	.018	.005	.035	.018	.005	.033	.017	.005		
10.0	.038	.018	.005	.037	.018	.005	.035	.017	.005	.034	.017	.005	.032	.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	.094	.094	.094	.081	.081	.081	.055	.055	.055	.032	.032	.032	.010	.010	.010	
1.0	.083	.078	.074	.071	.067	.063	.049	.046	.044	.028	.027	.026	.009	.009	.008	
2.0	.074	.066	.059	.063	.057	.051	.043	.039	.036	.025	.023	.021	.008	.007	.007	
3.0	.066	.056	.048	.057	.048	.042	.039	.034	.029	.023	.020	.017	.007	.006	.006	
4.0	.060	.048	.040	.051	.042	.034	.035	.029	.024	.020	.017	.014	.007	.006	.005	
5.0	.055	.042	.033	.047	.037	.029	.032	.026	.020	.019	.015	.012	.006	.005	.004	
6.0	.050	.037	.028	.043	.032	.024	.030	.023	.017	.017	.013	.010	.006	.004	.003	
7.0	.046	.033	.024	.040	.029	.021	.027	.020	.015	.016	.012	.009	.005	.004	.003	
8.0	.043	.030	.021	.037	.026	.018	.026	.018	.013	.015	.011	.008	.005	.004	.003	
9.0	.040	.027	.018	.035	.023	.016	.024	.016	.011	.014	.010	.007	.005	.003	.002	
10.0	.038	.025	.016	.032	.021	.014	.022	.015	.010	.013	.009	.006	.004	.003	.002	

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Operators:zoe
Test Date:2024-8-7

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-30G1000-A-83 Ra:90
LENS:PM-1082 15R
DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:220.18V I:0.0640A P:13.678W PF:0.9687 Freq:49.99Hz Lamp Flux:1490.38x1 lm										
NAME: 2318.112-ACOT-70					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2408070990		
MFR.: RISE					SUR.: 0.001734065m2			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	3.0	3.6	3.2	3.7	3.9	3.7	4.3	3.9	4.5	4.6
3H	2.8	3.4	3.1	3.6	3.8	3.6	4.1	3.8	4.3	4.5
4H	2.8	3.3	3.0	3.5	3.7	3.5	4.0	3.8	4.2	4.4
6H	2.7	3.2	3.0	3.4	3.6	3.4	3.9	3.7	4.2	4.4
8H	2.6	3.1	2.9	3.4	3.6	3.4	3.9	3.7	4.1	4.4
12H	2.6	3.1	2.9	3.3	3.6	3.4	3.8	3.7	4.1	4.3
4H 2H	2.7	3.3	3.0	3.5	3.7	3.5	4.0	3.7	4.2	4.4
3H	2.6	3.1	2.9	3.3	3.6	3.3	3.8	3.6	4.1	4.3
4H	2.5	2.9	2.8	3.2	3.5	3.2	3.7	3.6	4.0	4.3
6H	2.4	2.8	2.8	3.1	3.4	3.2	3.5	3.5	3.9	4.2
8H	2.4	2.7	2.7	3.1	3.4	3.1	3.5	3.5	3.8	4.2
12H	2.3	2.6	2.7	3.0	3.4	3.1	3.4	3.5	3.8	4.2
8H 4H	2.3	2.7	2.7	3.0	3.4	3.1	3.4	3.5	3.8	4.2
6H	2.2	2.5	2.7	2.9	3.3	3.0	3.3	3.4	3.7	4.1
8H	2.2	2.4	2.6	2.9	3.3	2.9	3.2	3.4	3.6	4.1
12H	2.1	2.4	2.6	2.8	3.3	2.9	3.1	3.4	3.6	4.0
12H 4H	2.3	2.6	2.7	3.0	3.4	3.0	3.4	3.4	3.7	4.1
6H	2.2	2.4	2.6	2.9	3.3	2.9	3.2	3.4	3.6	4.0
8H	2.1	2.4	2.6	2.8	3.3	2.9	3.1	3.4	3.6	4.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.1 / -10.1					+ 3.5 / - 9.2				
1.5H	+ 4.8 / -10.2					+ 5.1 / - 9.6				
2.0H	+ 6.6 / - 7.0					+ 6.3 / - 6.2				

CIE Pub.117, 1490 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.4)
Area: 0.00173407 m2

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30minutes warm-up

UTILIZATION FACTORS TABLE

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SPEC.: 3000K	DIM.:	SERIAL No.: 2408070990
MFR.: RISE	SUR.: 0.001734065m2	Shielding Angle:

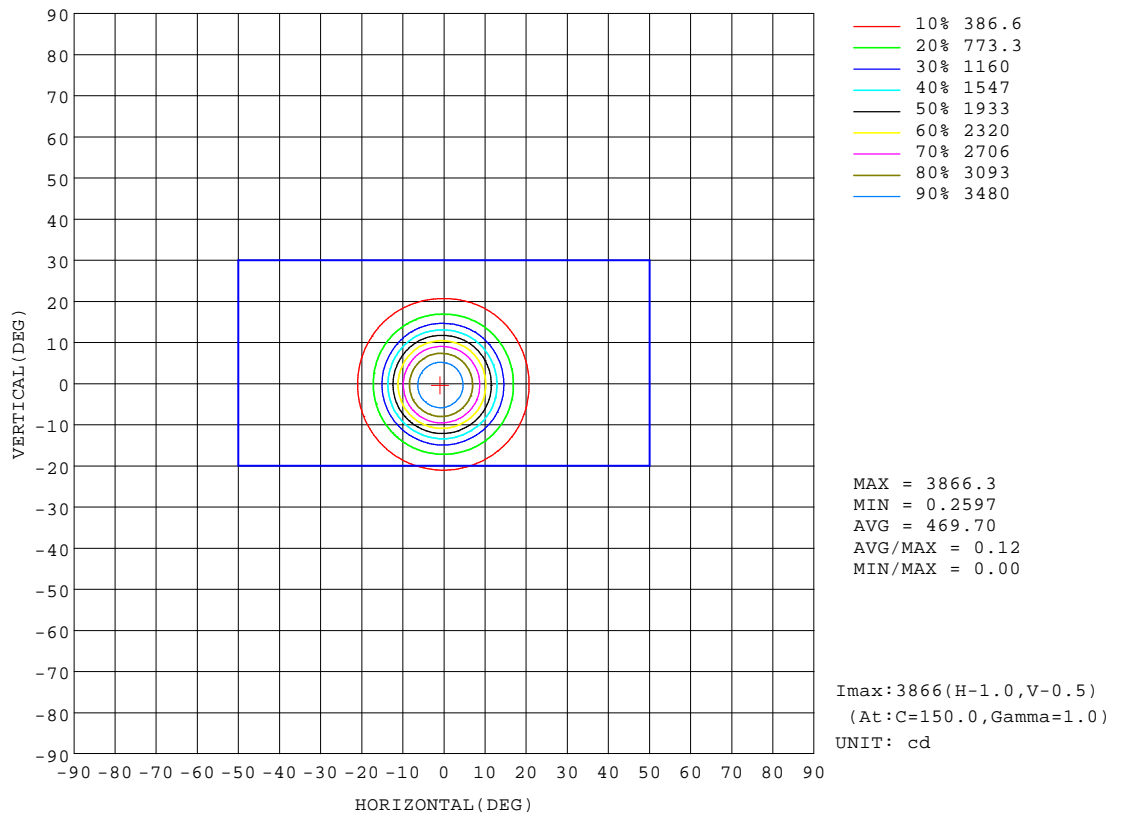
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	45	42	41	45	42	41	45	42	41	39
0.80	49	46	45	48	46	44	48	46	44	43
1.00	51	48	47	50	48	46	49	48	46	44
1.25	52	50	48	52	50	48	51	49	48	46
1.50	53	51	50	53	51	50	52	50	49	47
2.00	55	53	51	54	52	51	53	51	50	48
2.50	55	54	52	54	53	52	53	52	51	48
3.00	56	54	53	55	54	53	53	52	52	49
4.00	57	56	55	56	55	54	54	53	53	49
5.00	57	56	56	56	56	55	54	54	53	50
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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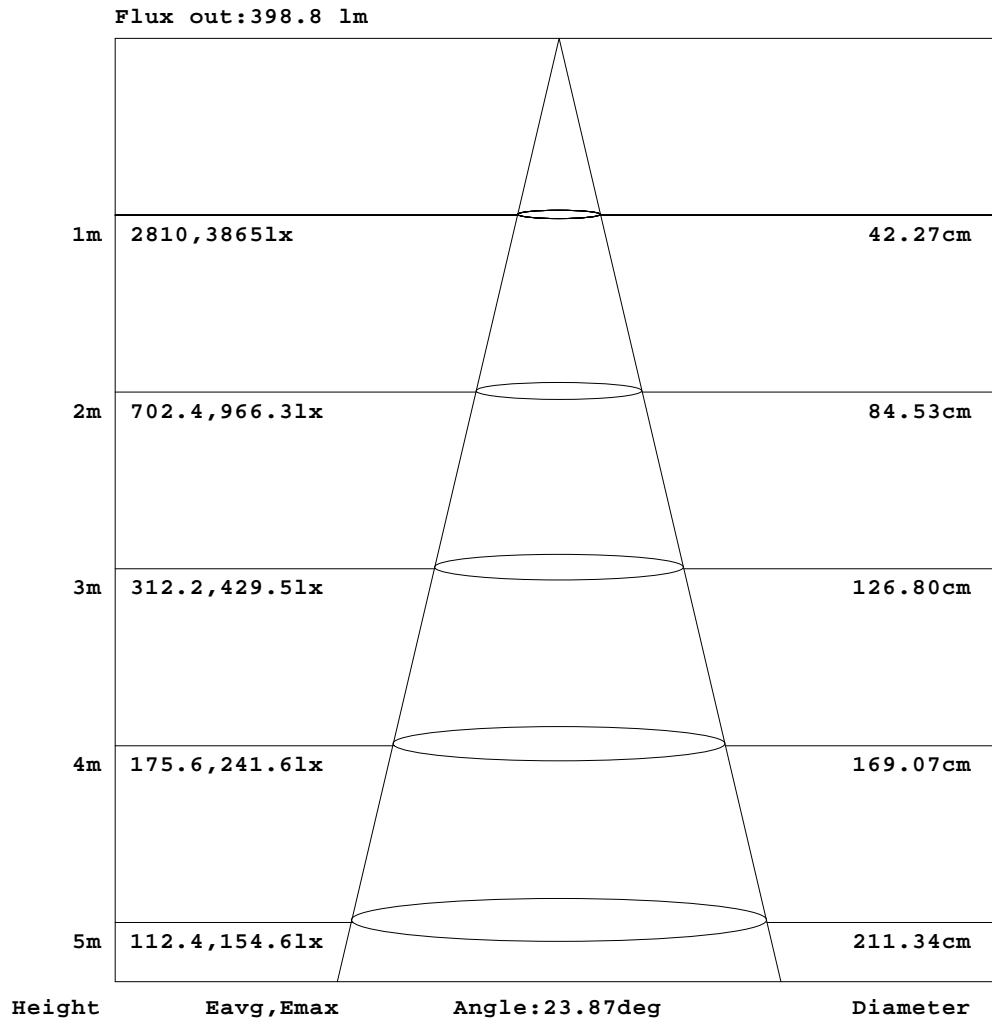


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AAI Figure

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

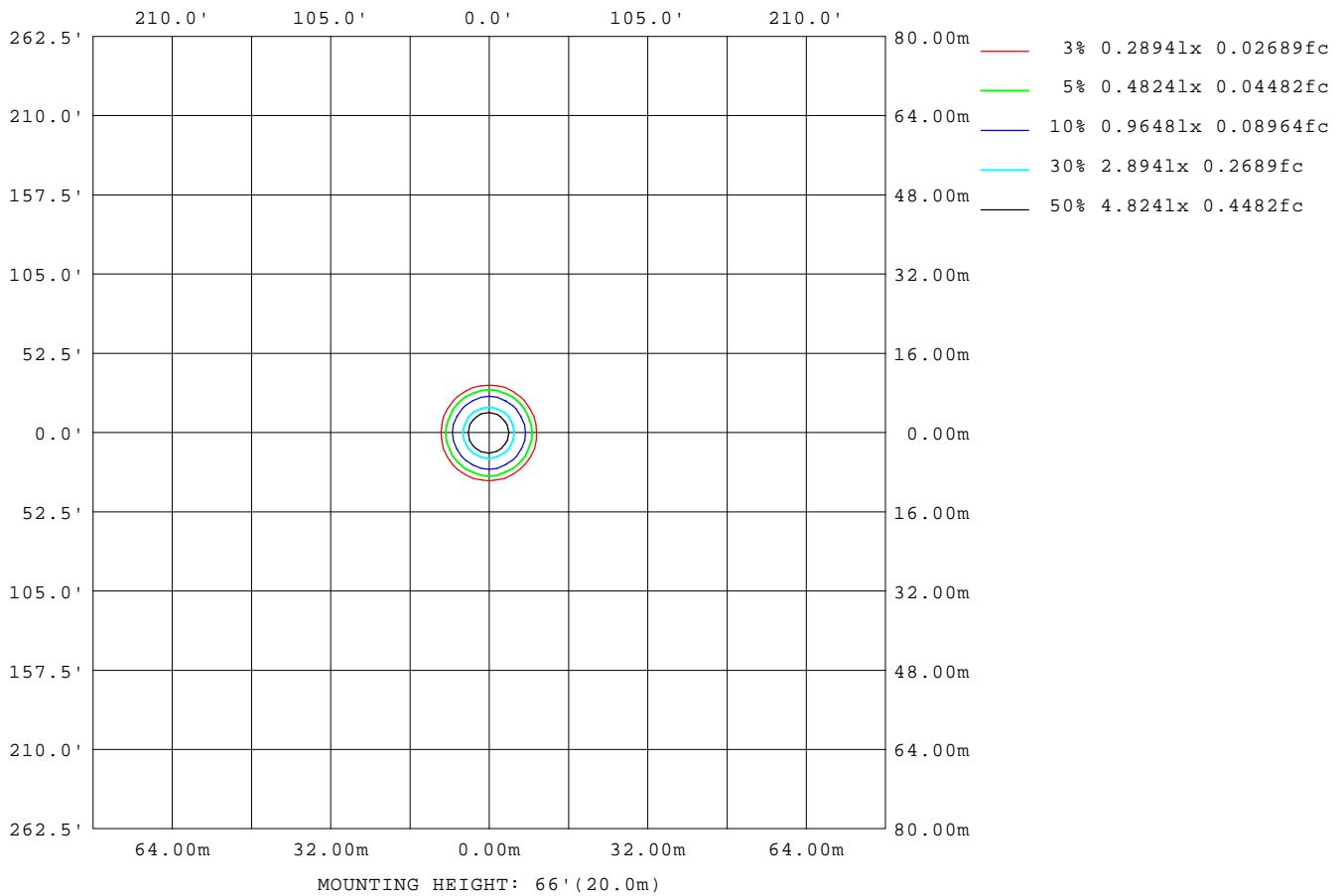
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30minutes warm-up



ISOLUX DIAGRAM

Test:U:220.18V I:0.0640A P:13.678W PF:0.9687 Freq:49.99Hz Lamp Flux:1490.38x1 lm		
NAME: 2318.112-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408070990
MFR.: RISE	SUR.: 0.001734065m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2024-8-7

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-30G1000-A-83 Ra:90
LENS: PM-1082 15R
DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

LED Avg.L Report

Test:U:220.18V I:0.0640A P:13.678W PF:0.9687 Freq:49.99Hz Lamp Flux:1490.38x1 lm		
NAME: 2318.112-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408070990
MFR.: RISE	SUR.: 0.001734065m2	Shielding Angle:

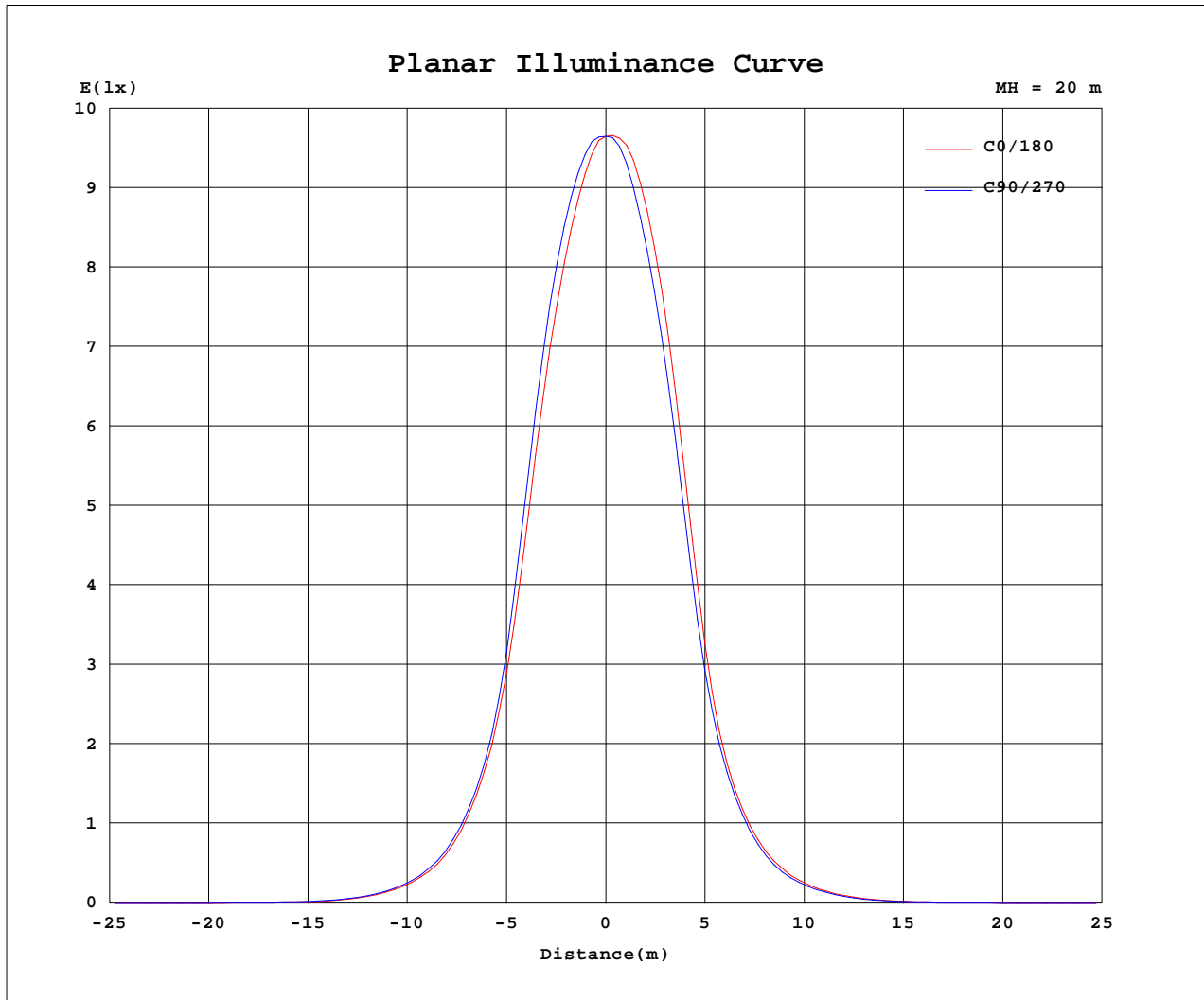
AvgL	cd/m2
L_0~180(65)av	178
L_0~180(75)av	167
L_0~180(85)av	179
L_90~270(65)av	180
L_90~270(75)av	196
L_90~270(85)av	391
L_45(65)av	174
L_45(75)av	157
L_45(85)av	151

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-8-7

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-30G1000-A-83 Ra:90
LENS:PM-1082 15R
DRIVER: IT FIT 20/200-240/500 CS 350mA
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: 2024-8-7

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-30G1000-A-83 Ra:90
 LENS: PM-1082 15R
 DRIVER: IT FIT 20/200-240/500 CS 350mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.18V I:0.0640A P:13.678W PF:0.9687 Freq:49.99Hz Lamp Flux:1490.38x1 lm		
NAME: 2318.112-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408070990
MFR.: RISE	SUR.: 0.001734065m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859	3859						
5	3428	3467	3523	3593	3646	3682	3664	3616	3561	3491	3449	3417						
10	2362	2426	2497	2593	2662	2699	2679	2601	2529	2430	2381	2341						
15	1072	1104	1110	1151	1161	1184	1175	1128	1115	1074	1068	1055						
20	441	456	457	471	469	466	465	451	447	435	438	427						
25	172	178	179	186	187	188	184	177	174	168	169	165						
30	62.0	64.1	64.7	69.0	70.8	71.6	70.2	67.6	64.2	61.8	61.5	59.4						
35	15.9	17.5	17.8	20.8	21.2	22.3	22.2	20.7	19.4	17.3	17.7	15.6						
40	6.25	6.38	6.61	6.64	6.29	6.36	6.46	6.51	6.19	6.29	6.44	6.35						
45	3.58	3.61	4.07	3.95	3.39	3.57	4.03	4.04	3.60	3.69	3.96	3.99						
50	1.48	1.51	1.49	1.57	1.41	1.58	2.01	1.67	1.60	1.59	1.41	1.35						
55	0.32	0.32	0.33	0.35	0.36	0.37	0.34	0.36	0.35	0.34	0.31	0.31						
60	0.18	0.18	0.18	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.18						
65	0.12	0.12	0.12	0.13	0.13	0.13	0.14	0.13	0.13	0.13	0.13	0.12						
70	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.09	0.10	0.09	0.09						
75	0.08	0.07	0.08	0.09	0.08	0.07	0.07	0.07	0.07	0.09	0.06	0.07						
80	0.06	0.05	0.07	0.09	0.06	0.06	0.06	0.05	0.06	0.07	0.05	0.05						
85	0.03	0.02	0.04	0.07	0.03	0.01	0.03	0.03	0.03	0.05	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
Test Speed: HIGH
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Operators:zoe
Test Date:2024-8-7

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