

Luminaire Photograph



Light Output Ratio:	86.0%	
Luminaire Power:	11.1 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: 2023-8-4

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: CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084A 24R
DRIVER: 9290 028 088 250mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

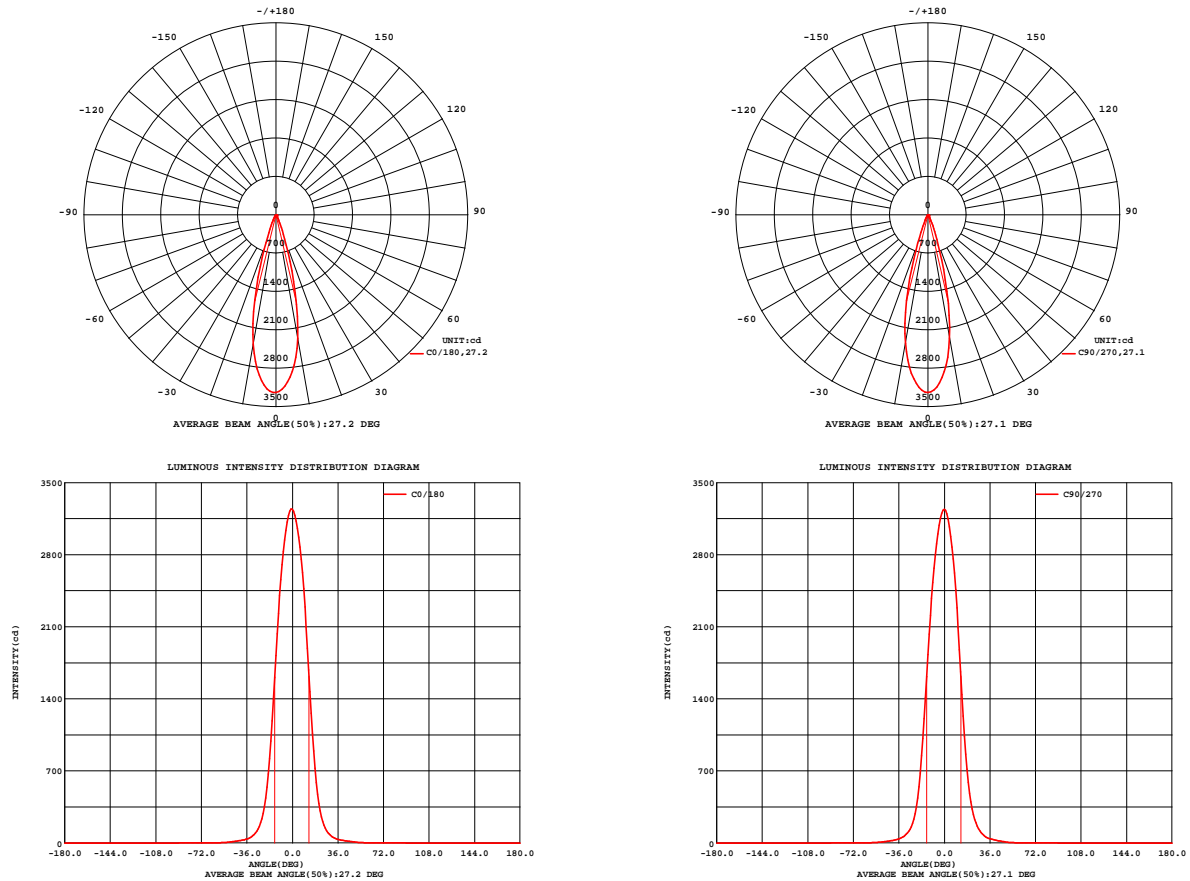


Fig. C0/C180

Fig. C90/C270

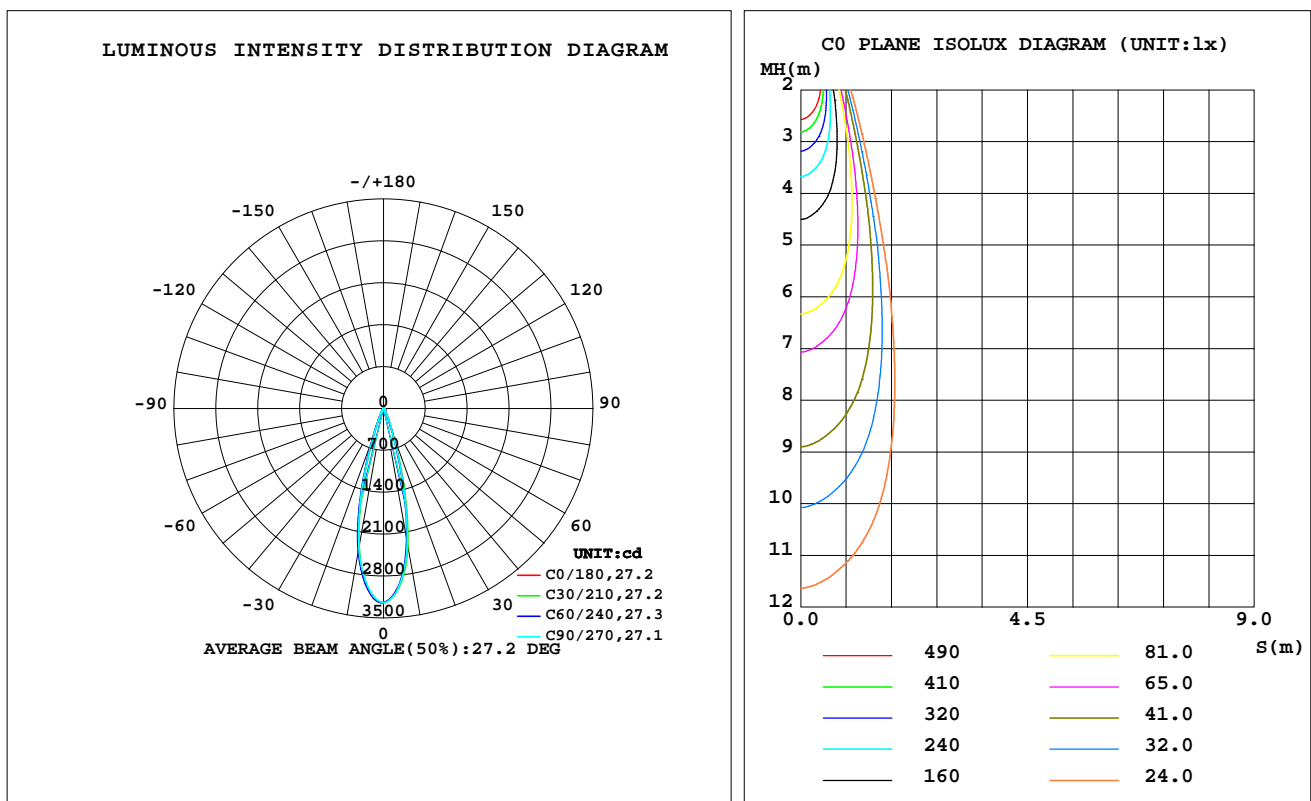
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.411-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040973
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 69.47 lm/W			
MODEL	CREE	I _{max} (cd)	3253	S/MH(C0/180)	0.44
NOMINAL POWER(W)	11	LOR(%)	86.0	S/MH(C90/270)	0.45
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	771.00	η UP,DN(C0-180)	0.0,42.7
NOMINAL FLUX(lm)	896.707	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,43.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	η down(%)	86.0	CIBSE SHR MAX	0.30



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30minutes warm-up

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2291	2290	2282	2415	2402	2393	2376	2264	0- 10	265.5	265.5	34.4,29.6
20	474.8	478.9	483.3	554.6	541.0	549.1	546.3	473.8	10- 20	357.0	622.6	80.7,69.4
30	74.78	84.46	88.50	92.16	82.51	84.39	85.95	75.60	20- 30	98.49	721.1	93.5,80.4
40	25.30	27.80	29.21	29.19	26.01	25.66	26.53	25.21	30- 40	29.11	750.2	97.3,83.7
50	8.005	10.40	7.013	11.95	8.309	10.95	8.909	10.28	40- 50	13.59	763.7	99.1,85.2
60	2.496	2.606	2.300	2.789	2.527	2.852	2.548	2.796	50- 60	4.566	768.3	99.7,85.7
70	0.9718	1.076	0.7985	1.210	0.9704	1.270	1.101	1.195	60- 70	1.843	770.2	99.9,85.9
80	0.3410	0.3300	0.2598	0.2974	0.2637	0.3175	0.2980	0.3487	70- 80	0.6417	770.8	100,86
90	0	0	0	0	0	0	0	0	80- 90	0.2000	771.0	100,86
100	0	0	0	0	0	0	0	0	90-100	0	771.0	100,86
110	0	0	0	0	0	0	0	0	100-110	0	771.0	100,86
120	0	0	0	0	0	0	0	0	110-120	0	771.0	100,86
130	0	0	0	0	0	0	0	0	120-130	0	771.0	100,86
140	0	0	0	0	0	0	0	0	130-140	0	771.0	100,86
150	0	0	0	0	0	0	0	0	140-150	0	771.0	100,86
160	0	0	0	0	0	0	0	0	150-160	0	771.0	100,86
170	0	0	0	0	0	0	0	0	160-170	0	771.0	100,86
180	0	0	0	0	0	0	0	0	170-180	0	771.0	100,86
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Operators:zoe
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LENS: PM-1084A 24R
DRIVER: 9290 028 088 250mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz
Lamp Flux:896.707x1 lm

NAME: 2214.411-1-ACOT-97

TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

SERIAL No.: 2308040973

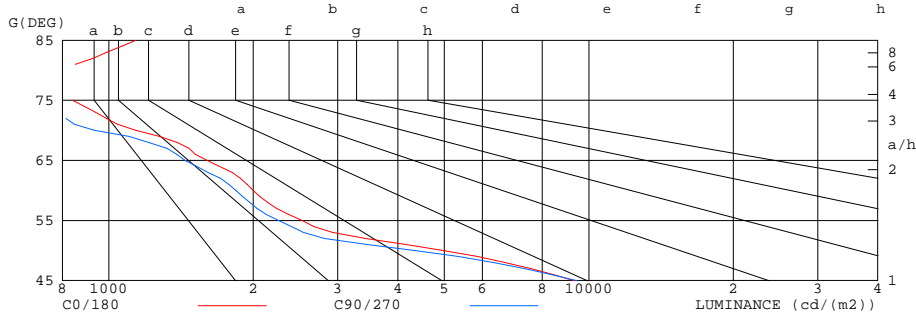
MFR.: RISE

SUR.: 0.0025m2

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



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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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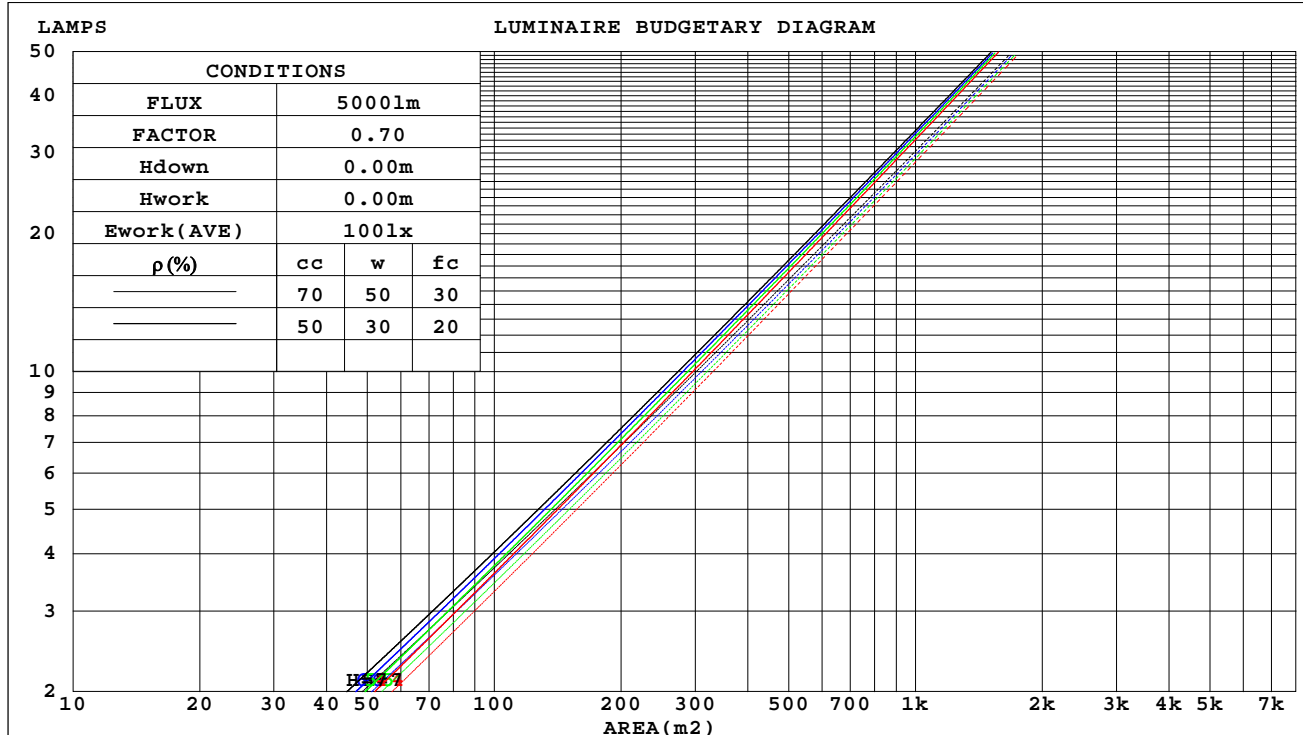
SERIAL No.: 2308040973

MFR.: RISE

SUR.: 0.0025m2

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 Coefficients of Utilization(CU)															
0.0	1.02	1.02	1.02	.00	.00	.00	.96	.96	.96	.91	.91	.91	.88	.88	.88	.86
1.0	.97	.95	.94	.95	.94	.92	.92	.91	.90	.89	.88	.87	.86	.85	.84	.83
2.0	.92	.90	.88	.91	.89	.87	.88	.86	.85	.86	.84	.83	.84	.82	.81	.80
3.0	.88	.85	.83	.87	.84	.82	.85	.83	.81	.83	.81	.80	.81	.80	.78	.77
4.0	.85	.81	.79	.84	.81	.78	.82	.80	.77	.81	.78	.77	.79	.77	.76	.75
5.0	.82	.78	.75	.81	.78	.75	.80	.77	.75	.78	.76	.74	.77	.75	.73	.72
6.0	.79	.75	.73	.78	.75	.72	.77	.74	.72	.76	.73	.71	.75	.73	.71	.70
7.0	.76	.73	.70	.76	.72	.70	.75	.72	.70	.74	.71	.69	.73	.71	.69	.68
8.0	.74	.70	.68	.73	.70	.68	.73	.70	.67	.72	.69	.67	.71	.69	.67	.66
9.0	.72	.68	.66	.71	.68	.66	.71	.68	.66	.70	.67	.65	.69	.67	.65	.64
10.0	.70	.66	.64	.69	.66	.64	.69	.66	.64	.68	.66	.64	.68	.65	.63	.63



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WEC AND CCEC

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NAME: 2214.411-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040973
MFR.: RISE	SUR.: 0.0025m2	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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.119	.068	.021	.114	.065	.021	.103	.059	.019	.093	.054	.017	.084	.049	.016	
2.0	.111	.061	.019	.106	.058	.018	.097	.054	.017	.089	.050	.016	.082	.046	.015	
3.0	.103	.055	.016	.099	.053	.016	.092	.050	.015	.085	.047	.014	.079	.044	.014	
4.0	.097	.050	.015	.093	.049	.014	.087	.046	.014	.082	.044	.013	.076	.041	.013	
5.0	.091	.046	.013	.088	.045	.013	.083	.043	.013	.078	.041	.012	.074	.039	.012	
6.0	.086	.043	.012	.084	.042	.012	.079	.041	.012	.075	.039	.011	.071	.037	.011	
7.0	.082	.040	.011	.080	.040	.011	.076	.038	.011	.072	.037	.011	.069	.036	.010	
8.0	.078	.038	.011	.076	.037	.011	.073	.036	.010	.069	.035	.010	.066	.034	.010	
9.0	.074	.036	.010	.073	.036	.010	.070	.034	.010	.067	.034	.010	.064	.033	.009	
10.0	.071	.034	.009	.070	.034	.009	.067	.033	.009	.065	.032	.009	.062	.031	.009	

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			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.164	.164	.164	.140	.140	.140	.096	.096	.096	.055	.055	.055	.018	.018	.018	
1.0	.145	.136	.127	.124	.116	.109	.085	.080	.076	.049	.046	.044	.016	.015	.014	
2.0	.129	.114	.101	.111	.098	.088	.076	.068	.061	.044	.040	.036	.014	.013	.012	
3.0	.117	.097	.082	.100	.084	.071	.069	.058	.050	.040	.034	.029	.013	.011	.010	
4.0	.106	.084	.068	.091	.073	.059	.062	.051	.041	.036	.030	.024	.012	.010	.008	
5.0	.097	.074	.056	.083	.064	.049	.057	.045	.035	.033	.026	.021	.011	.009	.007	
6.0	.089	.065	.048	.077	.056	.042	.053	.039	.029	.031	.023	.017	.010	.008	.006	
7.0	.083	.058	.041	.071	.050	.035	.049	.035	.025	.029	.021	.015	.009	.007	.005	
8.0	.077	.052	.035	.066	.045	.031	.046	.032	.022	.027	.019	.013	.009	.006	.004	
9.0	.072	.047	.031	.062	.041	.027	.043	.029	.019	.025	.017	.011	.008	.006	.004	
10.0	.068	.043	.027	.059	.038	.023	.041	.026	.017	.024	.016	.010	.008	.005	.003	

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2308040973		
MFR.: RISE					SUR.: 0.0025m2			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	10.4	11.1	10.6	11.2	11.4	10.5	11.2	10.7	11.3	11.5
3H	10.4	11.0	10.6	11.2	11.4	10.4	11.1	10.7	11.2	11.4
4H	10.4	11.0	10.6	11.2	11.4	10.4	11.0	10.6	11.2	11.4
6H	10.3	10.9	10.6	11.1	11.3	10.3	10.9	10.6	11.1	11.3
8H	10.3	10.8	10.6	11.1	11.3	10.3	10.8	10.6	11.1	11.3
12H	10.3	10.8	10.6	11.0	11.3	10.2	10.8	10.6	11.0	11.3
4H 2H	10.3	10.9	10.6	11.1	11.3	10.4	11.0	10.6	11.2	11.4
3H	10.3	10.8	10.6	11.1	11.3	10.3	10.9	10.6	11.1	11.4
4H	10.3	10.7	10.6	11.0	11.3	10.3	10.7	10.6	11.0	11.3
6H	10.2	10.6	10.6	11.0	11.3	10.2	10.6	10.6	11.0	11.3
8H	10.2	10.6	10.6	10.9	11.3	10.2	10.6	10.6	10.9	11.3
12H	10.2	10.5	10.6	10.9	11.3	10.1	10.5	10.5	10.9	11.2
8H 4H	10.1	10.5	10.5	10.9	11.2	10.2	10.5	10.5	10.9	11.3
6H	10.1	10.4	10.5	10.8	11.2	10.1	10.4	10.5	10.8	11.2
8H	10.1	10.4	10.5	10.8	11.2	10.1	10.3	10.5	10.8	11.2
12H	10.1	10.3	10.6	10.8	11.2	10.0	10.3	10.5	10.7	11.2
12H 4H	10.1	10.5	10.5	10.8	11.2	10.1	10.5	10.5	10.8	11.2
6H	10.0	10.3	10.5	10.7	11.2	10.0	10.3	10.5	10.7	11.2
8H	10.0	10.3	10.5	10.7	11.2	10.0	10.3	10.5	10.7	11.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.0 / - 4.7					+ 2.3 / - 5.7				
1.5H	+ 2.4 / - 3.9					+ 3.4 / - 5.4				
2.0H	+ 4.4 / - 3.7					+ 4.9 / - 3.6				

CIE Pub.117, 896.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.4)
Area: 0.0025 m2

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UTILIZATION FACTORS TABLE

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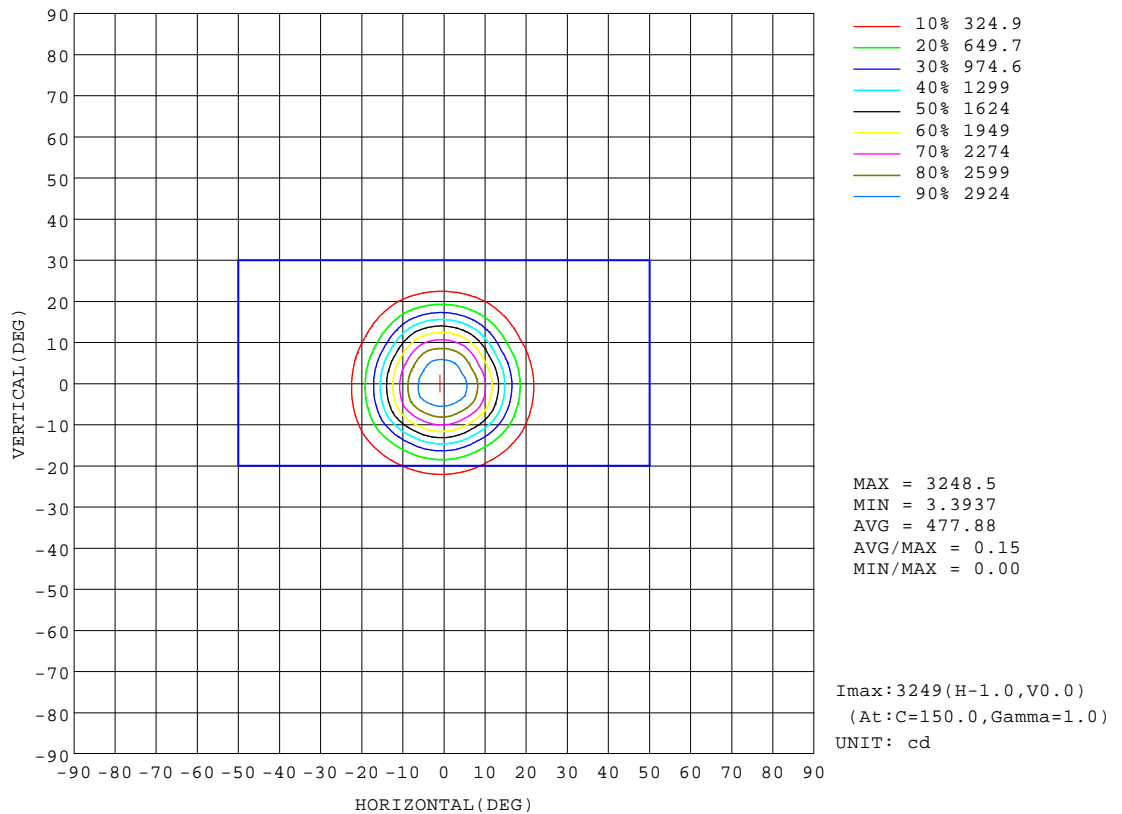
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	77	72	69	77	72	69	76	72	69	66
0.80	83	79	76	83	78	76	82	78	75	72
1.00	87	82	79	86	82	79	85	82	79	76
1.25	90	86	83	89	85	83	87	84	82	79
1.50	92	88	86	91	88	85	89	86	84	81
2.00	94	91	88	93	90	88	91	88	86	82
2.50	95	92	90	94	91	89	91	89	88	83
3.00	97	94	92	95	93	91	92	90	89	84
4.00	98	96	94	97	95	93	93	92	91	85
5.00	99	98	96	97	96	95	94	93	92	86
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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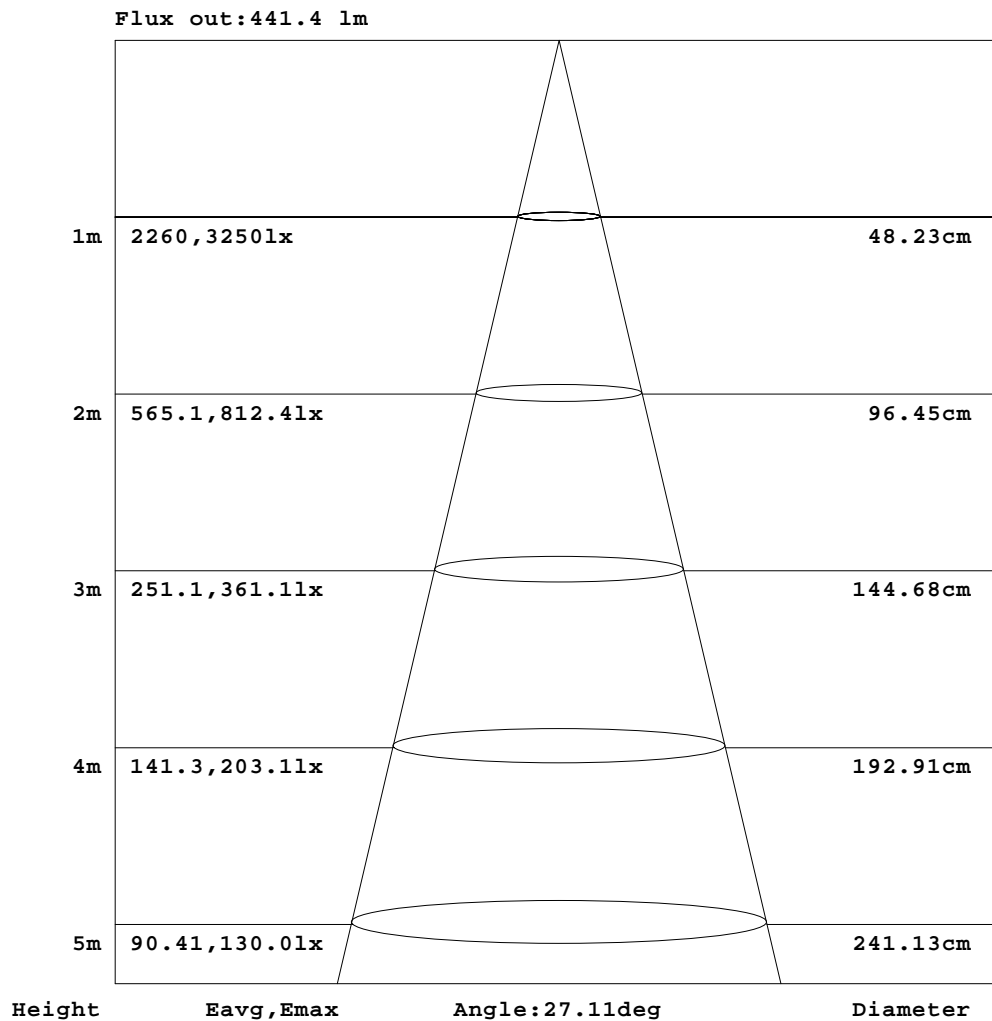


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Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: CMA1306-0000-000N0U0A30G Ra: 90
LENS: PM-1084A 24R
DRIVER: 9290 028 088 250mA
30minutes warm-up

AAI Figure

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.411-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040973
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:



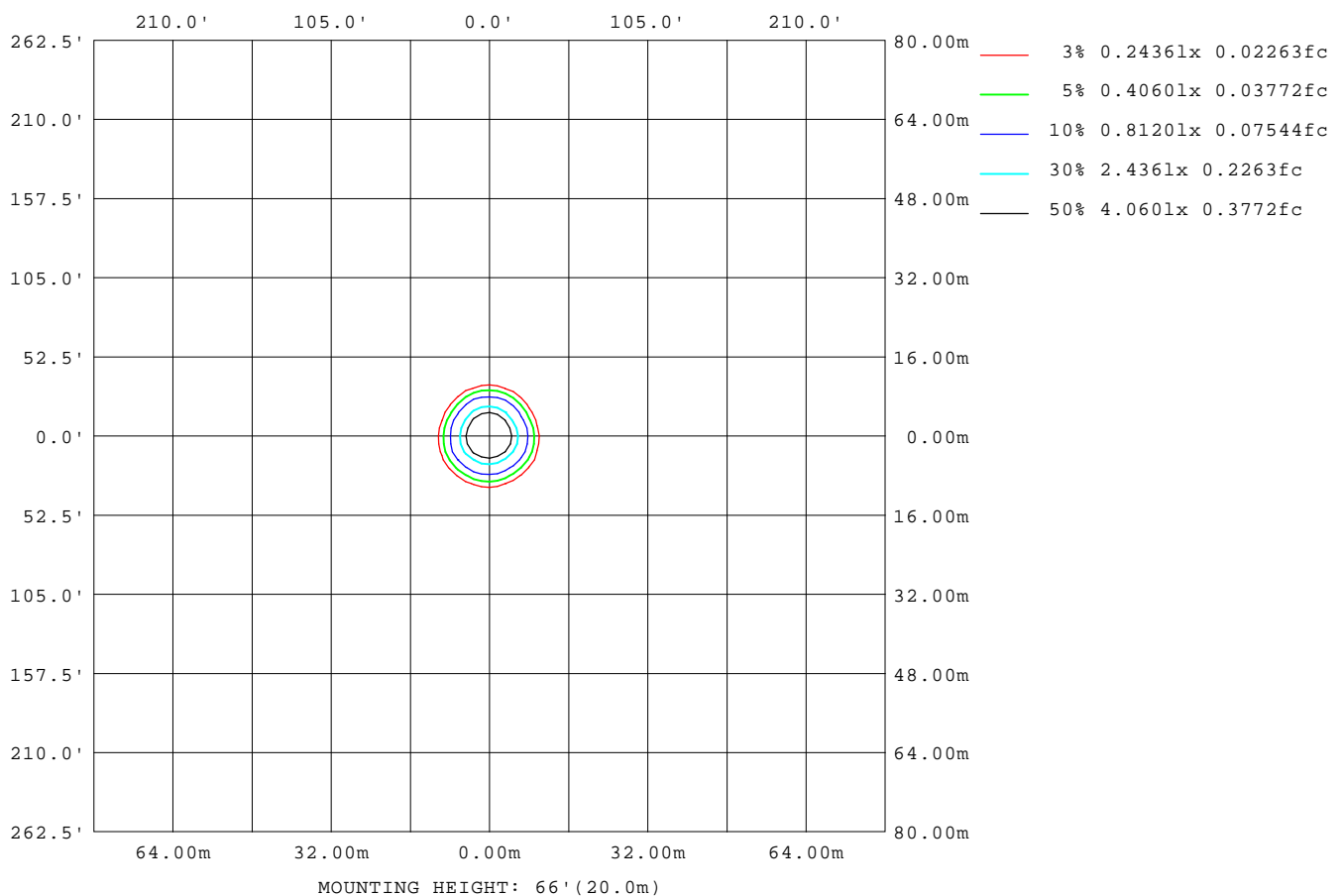
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-8-4

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: CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084A 24R
DRIVER: 9290 028 088 250mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.411-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040973
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:zoe
Test Date:2023-8-4

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:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084A 24R
DRIVER: 9290 028 088 250mA
30minutes warm-up

LED Avg.L Report

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.411-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040973
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:

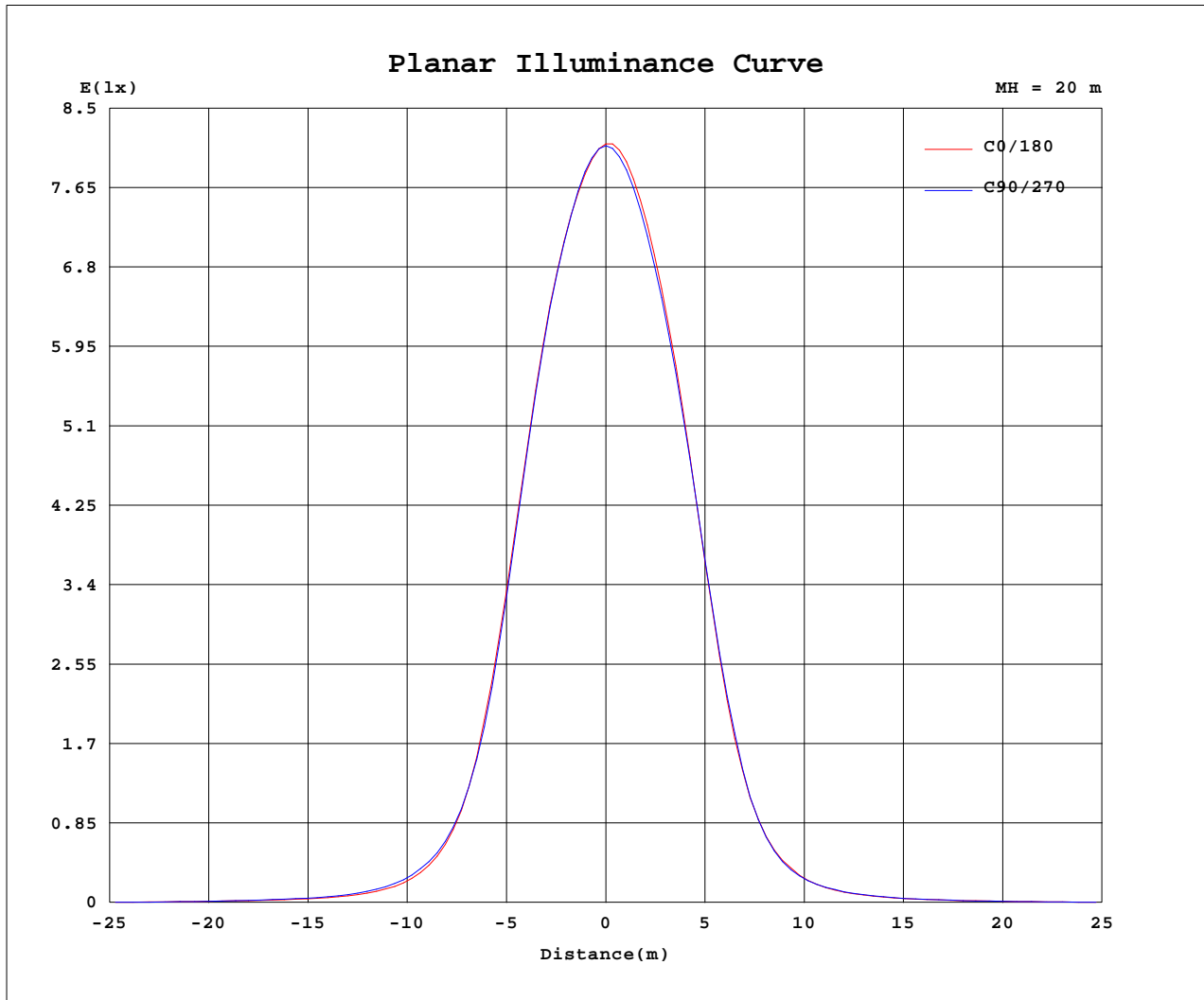
AvgL	cd/m2
L_0~180(65)av	1613
L_0~180(75)av	793
L_0~180(85)av	1011
L_90~270(65)av	1574
L_90~270(75)av	754
L_90~270(85)av	936
L_45(65)av	1867
L_45(75)av	936
L_45(85)av	983

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-8-4

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:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084A 24R
DRIVER: 9290 028 088 250mA
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: 2023-8-4

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: CMA1306-0000-000N0U0A30G Ra:90
 LENS: PM-1084A 24R
 DRIVER: 9290 028 088 250mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.411-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040973
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242	3242						
5	2971	3003	2969	2977	3018	3086	3035	3000	3031	3001	2983	2927						
10	2291	2342	2239	2282	2349	2481	2402	2352	2434	2376	2331	2197						
15	1260	1304	1182	1232	1296	1480	1395	1347	1478	1408	1341	1173						
20	475	503	455	483	511	598	541	510	588	546	517	431						
25	173	194	181	197	201	227	199	182	206	190	186	157						
30	74.8	84.8	84.1	88.5	91.1	93.2	82.5	81.4	87.4	85.9	81.8	69.4						
35	39.1	43.7	44.0	46.1	46.9	47.4	42.9	42.1	45.5	44.9	43.1	37.1						
40	25.3	27.3	28.3	29.2	29.3	29.1	26.0	24.8	26.5	26.5	26.2	24.2						
45	16.4	18.4	18.1	16.7	19.6	19.7	16.4	16.8	17.2	16.3	17.5	16.6						
50	8.00	11.2	9.58	7.01	11.8	12.1	8.31	11.1	10.8	8.91	11.2	9.36						
55	3.62	5.44	3.50	3.24	5.65	4.93	3.72	6.02	4.82	3.83	5.99	3.85						
60	2.50	2.79	2.43	2.30	2.78	2.80	2.53	2.94	2.76	2.55	3.00	2.59						
65	1.69	1.90	1.68	1.52	1.94	2.03	1.72	2.04	2.02	1.80	2.07	1.85						
70	0.97	1.15	1.00	0.80	1.16	1.26	0.97	1.26	1.28	1.10	1.27	1.12						
75	0.54	0.60	0.52	0.41	0.58	0.58	0.48	0.61	0.63	0.56	0.65	0.59						
80	0.34	0.34	0.32	0.26	0.30	0.29	0.26	0.31	0.32	0.30	0.35	0.34						
85	0.25	0.22	0.20	0.18	0.19	0.20	0.19	0.21	0.23	0.23	0.23	0.23						
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:2023-8-4

γ Range: 0 - 180DEG
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Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
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