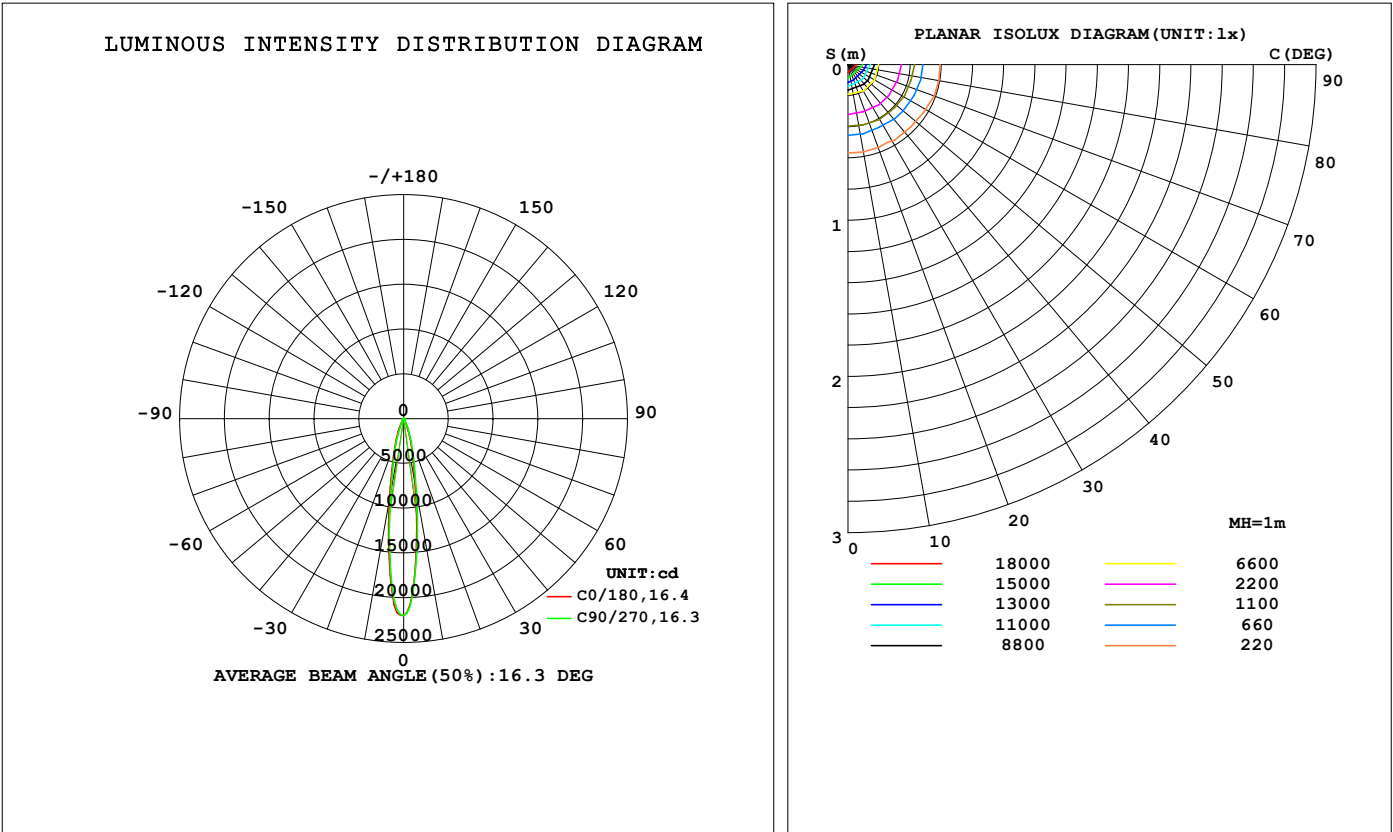


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.3V I:0.1245A P:29.6W PF:0.9887 Freq:49.99Hz		
UTHDi:0.16% ITHDi:5.36% KDisp:0.9909 Lamp Flux:3140.75x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 15D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 106.21 lm/W
MODEL		Imax (cd)	21993	S/MH(C0/180)	0.30	
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	0.28	
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	3140.8	η UP,DN(C0-180)	0.0,49.0	
NOMINAL FLUX(lm)	3140.75	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.0	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	240.19	η down (%)	100.0	CIBSE SHR MAX	0.30	



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	759.0	787.2	823.1	875.6	910.3	902.5	833.1	776.1	0- 10	1306	1306	41.6,41.6
20	172.9	190.6	216.3	237.0	243.3	220.5	199.0	169.7	10- 20	1162	2468	78.6,78.6
30	27.79	31.17	36.19	42.59	44.65	36.89	31.09	27.29	20- 30	437.8	2906	92.5,92.5
40	10.04	10.55	11.00	11.59	12.01	11.01	10.17	9.612	30- 40	118.4	3024	96.3,96.3
50	5.423	5.545	5.498	5.279	5.689	5.518	5.169	4.871	40- 50	58.00	3082	98.1,98.1
60	2.860	2.983	3.041	2.796	3.112	3.035	2.790	2.557	50- 60	36.50	3119	99.3,99.3
70	0.6671	0.7204	0.8309	0.8820	0.9265	0.8370	0.7426	0.6569	60- 70	17.69	3137	99.9,99.9
80	0.1297	0.1310	0.1447	0.1460	0.1488	0.1381	0.1456	0.1271	70- 80	3.461	3140	100,100
90	0.0103	0.0060	0.0124	0.0056	0.0059	0.0059	0.0116	0.0061	80- 90	0.6305	3141	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

Conical surface Flux(90deg): 3057.2 lm

%lum = 97.3%

%lamp = 97.3%

Conical surface Flux(120deg): 3119 lm

%lum = 99.3%

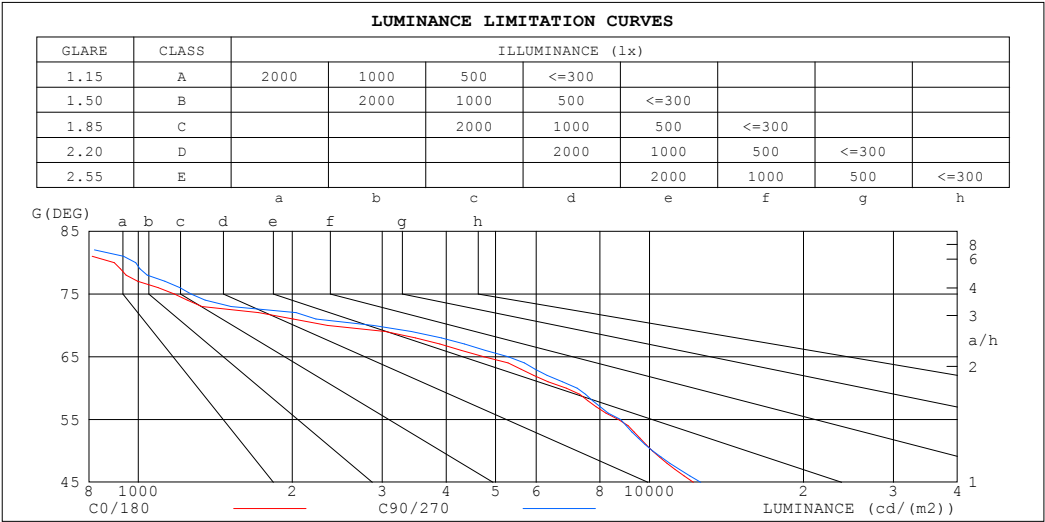
%lamp = 99.3%

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:240.3V I:0.1245A P:29.6W PF:0.9887 Freq:49.99Hz		
UTHDi:0.16% ITHDi:5.36% KDisp:0.9909 Lamp Flux:3140.75x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 15D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	682	765
80	897	989
75	1176	1267
70	2343	2882
65	4747	5290
60	6871	7214
55	8691	8781
50	10134	10148
45	12179	12596

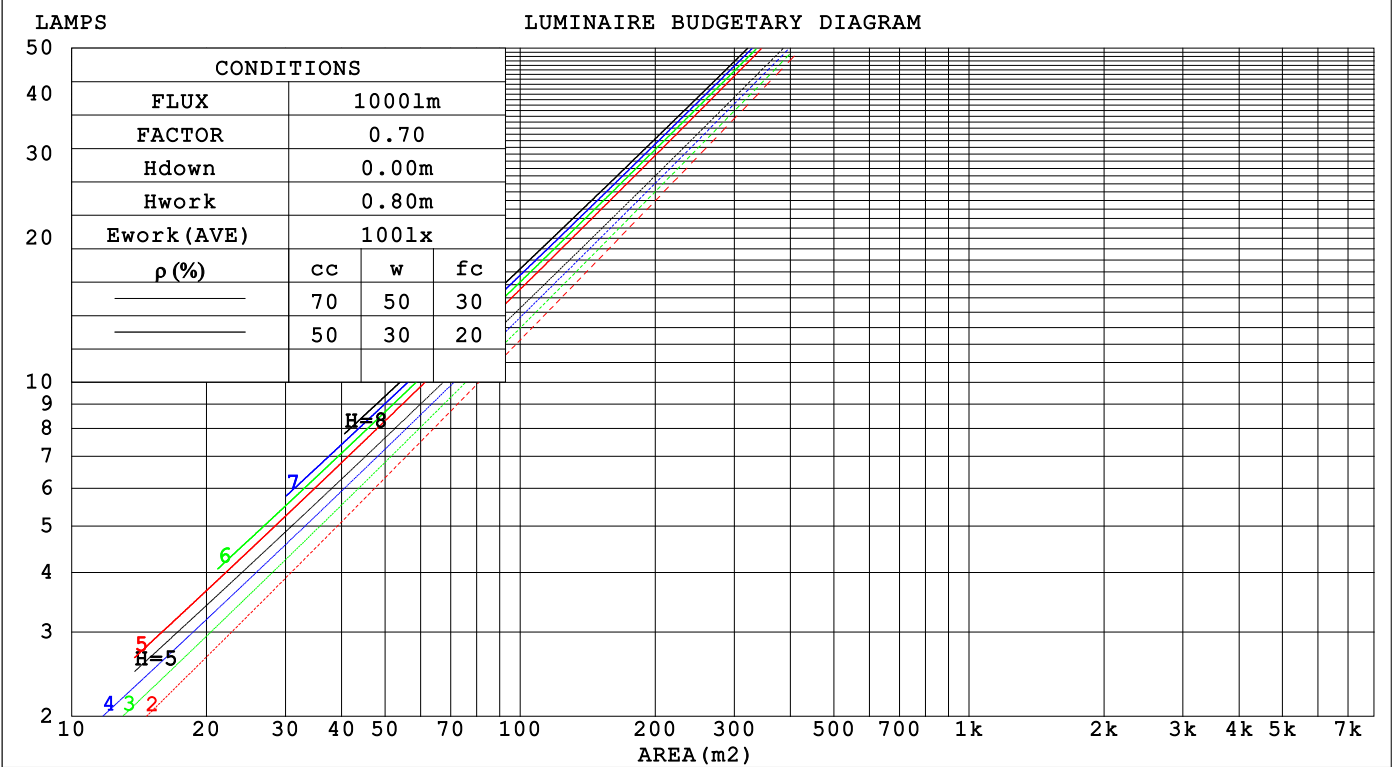
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.3V I:0.1245A P:29.6W PF:0.9887 Freq:49.99Hz		
UTHDi:0.16% ITHDi:5.36% KDisp:0.9909 Lamp Flux:3140.75x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 15D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	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															



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:240.3V I:0.1245A P:29.6W PF:0.9887 Freq:49.99Hz		
UTHDi:0.16% ITHDi:5.36% KDisp:0.9909 Lamp Flux:3140.75x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 15D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	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	.138	.078	.025	.131	.075	.024	.119	.068	.022	.107	.062	.020	.097	.056	.018	
2.0	.128	.070	.021	.122	.067	.021	.112	.062	.019	.103	.058	.018	.094	.053	.017	
3.0	.119	.063	.019	.114	.061	.018	.106	.057	.017	.098	.054	.016	.091	.050	.016	
4.0	.111	.058	.017	.107	.056	.017	.100	.053	.016	.094	.050	.015	.087	.047	.014	
5.0	.104	.053	.015	.101	.052	.015	.095	.049	.015	.089	.047	.014	.084	.045	.013	
6.0	.098	.049	.014	.096	.048	.014	.090	.046	.013	.086	.044	.013	.081	.043	.013	
7.0	.093	.046	.013	.091	.045	.013	.086	.044	.013	.082	.042	.012	.078	.040	.012	
8.0	.089	.043	.012	.086	.043	.012	.082	.041	.012	.079	.040	.011	.075	.039	.011	
9.0	.084	.041	.011	.083	.040	.011	.079	.039	.011	.076	.038	.011	.073	.037	.011	
10.0	.081	.039	.011	.079	.038	.011	.076	.037	.010	.073	.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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.168	.158	.148	.144	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.150	.133	.118	.129	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.135	.113	.096	.116	.098	.083	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.123	.098	.079	.105	.085	.069	.072	.059	.048	.042	.035	.029	.013	.011	.009	
5.0	.112	.086	.066	.096	.074	.057	.066	.052	.040	.038	.030	.024	.012	.010	.008	
6.0	.103	.076	.056	.089	.065	.049	.061	.046	.034	.036	.027	.020	.011	.009	.007	
7.0	.096	.067	.048	.082	.058	.041	.057	.041	.029	.033	.024	.018	.011	.008	.006	
8.0	.089	.061	.041	.077	.053	.036	.053	.037	.025	.031	.022	.015	.010	.007	.005	
9.0	.083	.055	.036	.072	.048	.031	.050	.033	.022	.029	.020	.013	.009	.006	.004	
10.0	.078	.050	.031	.067	.043	.027	.047	.031	.019	.027	.018	.012	.009	.006	.004	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:240.3V I:0.1245A P:29.6W PF:0.9887 Freq:49.99Hz UTHDi:0.16% ITHDi:5.36% KDisp:0.9909 Lamp Flux:3140.75x1 lm											
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 15D 30W						TYPE:		WEIGHT:			
SPEC.:						DIM.:		SERIAL No.:			
MFR.: Norming lighting						SUR.: 104mm		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	2H	12.3	12.9	12.5	13.1	13.2	12.6	13.2	12.8	13.4	13.5
	3H	12.5	13.1	12.7	13.3	13.5	12.8	13.4	13.0	13.6	13.8
	4H	12.4	13.0	12.7	13.2	13.4	12.7	13.3	13.0	13.5	13.7
	6H	12.4	12.9	12.6	13.1	13.4	12.7	13.2	13.0	13.4	13.7
	8H	12.3	12.9	12.6	13.1	13.3	12.6	13.2	12.9	13.4	13.7
	12H	12.3	12.8	12.6	13.1	13.3	12.6	13.1	12.9	13.4	13.6
4H	2H	12.5	13.1	12.7	13.3	13.5	12.7	13.3	13.0	13.5	13.7
	3H	12.7	13.2	13.0	13.4	13.7	12.9	13.5	13.3	13.7	14.0
	4H	12.6	13.1	12.9	13.4	13.7	12.9	13.4	13.2	13.7	14.0
	6H	12.5	13.0	12.9	13.3	13.6	12.8	13.2	13.2	13.6	13.9
	8H	12.5	12.9	12.9	13.2	13.6	12.8	13.2	13.2	13.5	13.9
	12H	12.4	12.8	12.8	13.2	13.5	12.7	13.1	13.1	13.4	13.8
8H	4H	12.5	12.9	12.9	13.2	13.6	12.8	13.2	13.2	13.5	13.9
	6H	12.4	12.7	12.8	13.1	13.5	12.7	13.0	13.1	13.4	13.8
	8H	12.4	12.6	12.8	13.1	13.5	12.6	12.9	13.1	13.3	13.8
	12H	12.3	12.6	12.8	13.0	13.5	12.6	12.8	13.1	13.3	13.7
12H	4H	12.4	12.8	12.8	13.2	13.5	12.7	13.1	13.1	13.4	13.8
	6H	12.4	12.6	12.8	13.1	13.5	12.6	12.9	13.1	13.3	13.8
	8H	12.3	12.6	12.8	13.0	13.5	12.6	12.8	13.0	13.3	13.7
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 1.0 / - 1.5					+ 1.2 / - 1.6				
1.5H		+ 1.2 / - 0.7					+ 1.7 / - 0.9				
2.0H		+ 1.4 / - 1.6					+ 1.5 / - 1.5				

CIE Pub.117, 3141 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.0$)
Area: 0.0084 m²

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.3V I:0.1245A P:29.6W PF:0.9887 Freq:49.99Hz		
UTHDi:0.16% ITHDi:5.36% KDisp:0.9909 Lamp Flux:3140.75x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 15D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

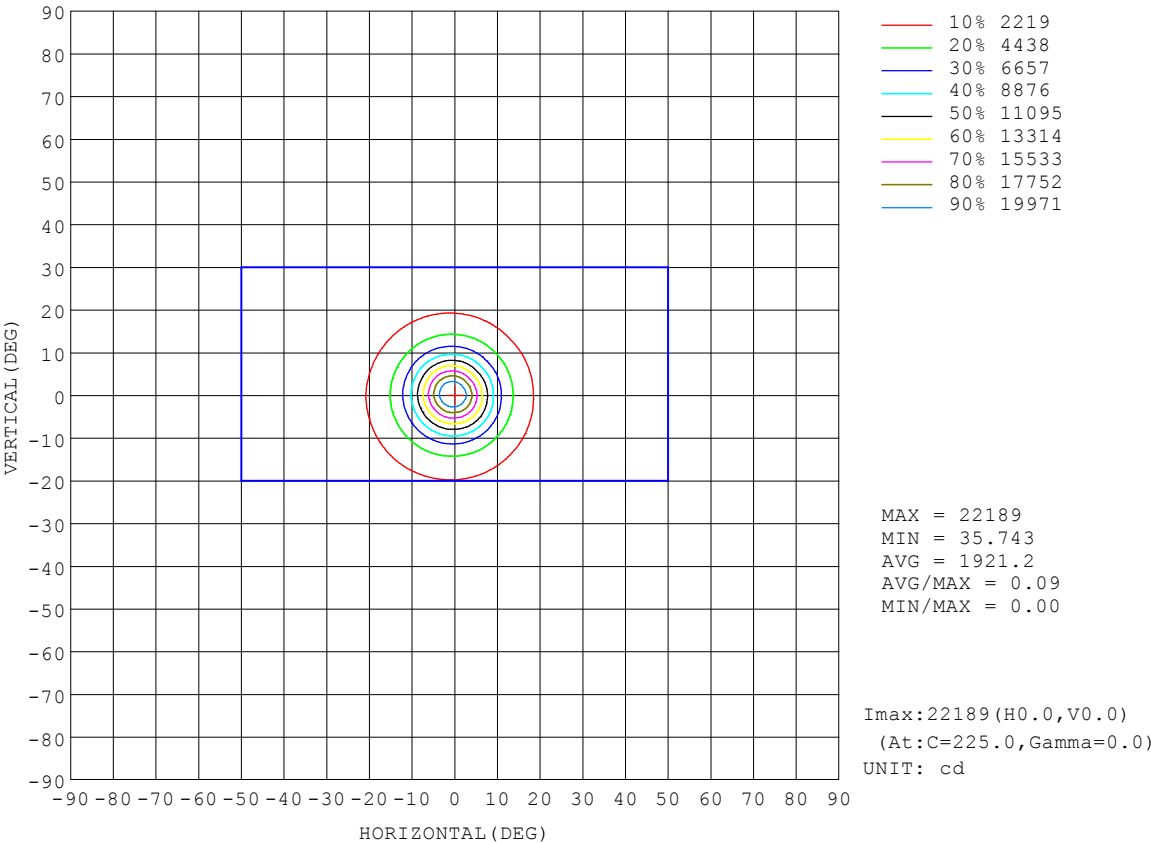
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	80	89	83	80	88	83	79	76
0.80	96	91	87	96	91	87	95	90	87	83
1.00	100	95	92	100	95	91	98	95	91	87
1.25	104	99	96	103	99	96	101	98	95	91
1.50	107	102	99	106	102	99	103	100	98	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	104	102	96
3.00	112	109	106	110	108	105	107	105	103	97
4.00	114	112	110	112	110	108	109	107	105	98
5.00	115	113	112	113	111	110	109	108	107	99
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-09-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 γ Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity: 65.0%
Test Distance: 3.090m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

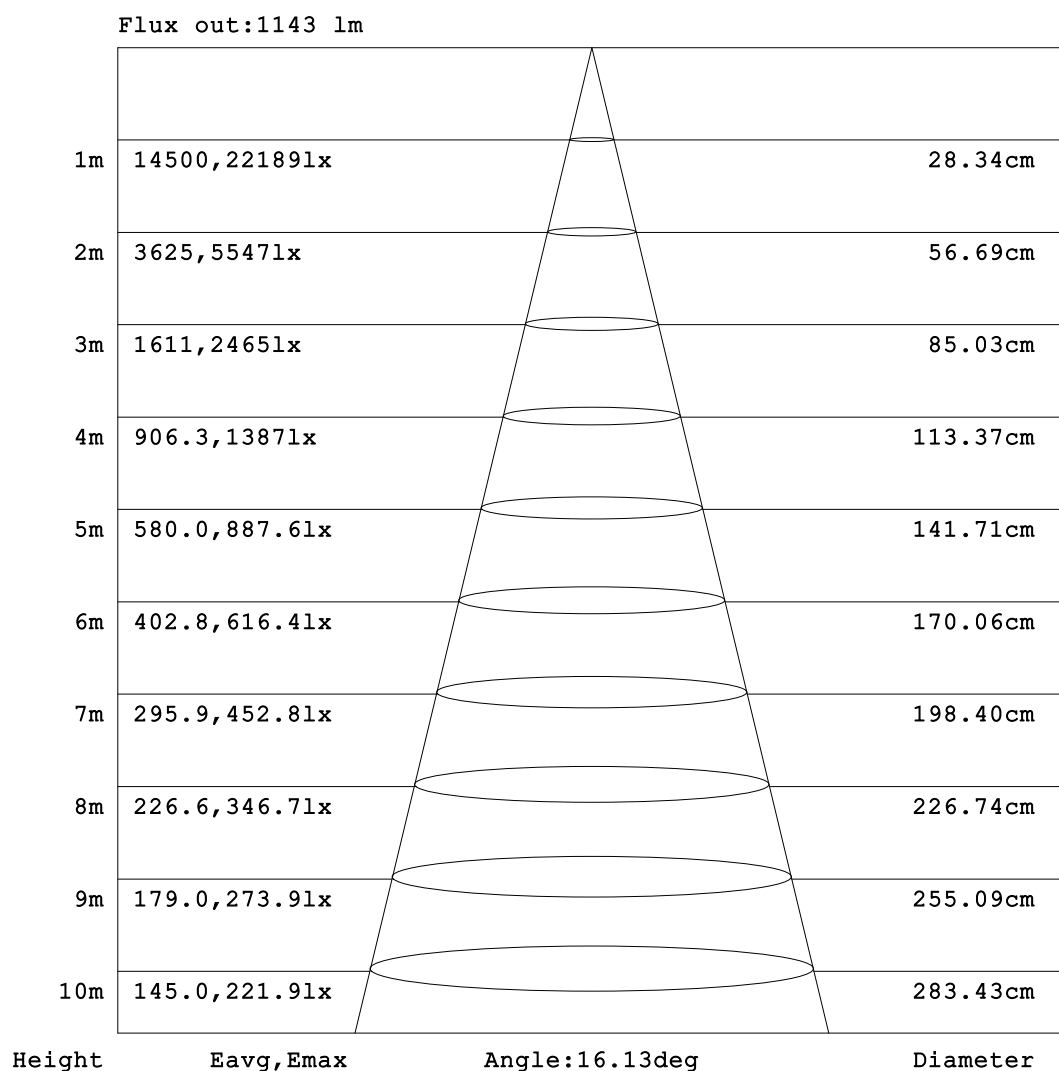
Test:U:240.3V I:0.1245A P:29.6W PF:0.9887 Freq:49.99Hz		
UTHDi:0.16% ITHDi:5.36% KDisp:0.9909 Lamp Flux:3140.75x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 15D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:



C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 45.0DEG	γ Interval: 1.0DEG
Test Speed: MEDIUM	Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Temperature:25.3DEG	Humidity:65.0%
Operators:DAMIN	Test Distance:3.090m [K=1.0000]
Test Date:2024-09-13	Remarks:

AAI Figure

Test:U:240.3V I:0.1245A P:29.6W PF:0.9887 Freq:49.99Hz		
UTHDi:0.16% ITHDi:5.36% KDisp:0.9909 Lamp Flux:3140.75x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 15D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:



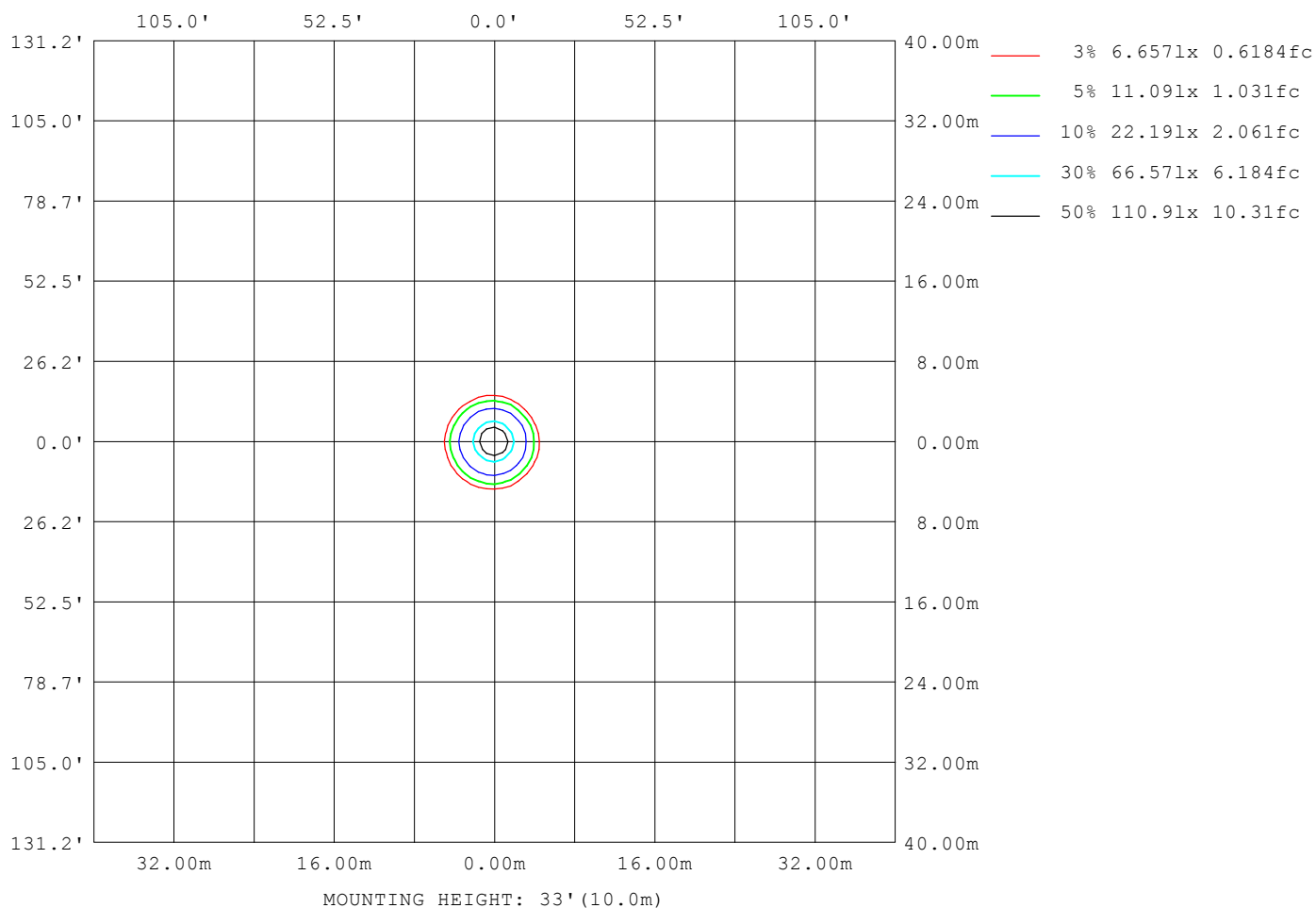
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-09-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity: 65.0%
Test Distance: 3.090m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:240.3V I:0.1245A P:29.6W PF:0.9887 Freq:49.99Hz UTHDi:0.16% ITHDi:5.36% KDisp:0.9909 Lamp Flux:3140.75x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 15D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-09-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity: 65.0%
Test Distance: 3.090m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:240.3V I:0.1245A P:29.6W PF:0.9887 Freq:49.99Hz UTHDi:0.16% ITHDi:5.36% KDisp:0.9909 Lamp Flux:3140.75x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 15D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

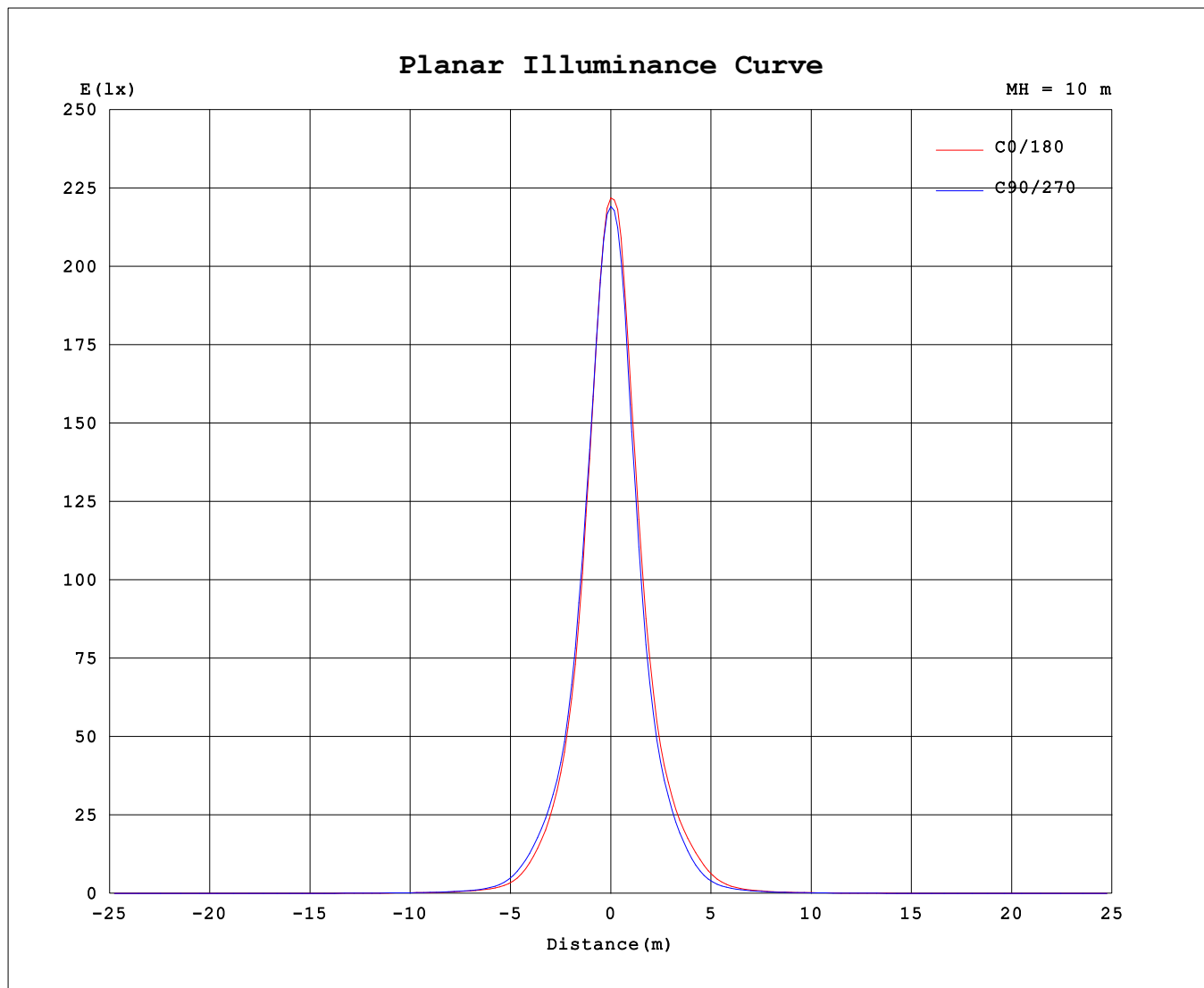
AvgL	cd/m2
L_0~180 (65) av	5179
L_0~180 (75) av	1255
L_0~180 (85) av	747
L_90~270 (65) av	5066
L_90~270 (75) av	1243
L_90~270 (85) av	787
L_45 (65) av	4972
L_45 (75) av	1237
L_45 (85) av	670

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-09-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity: 65.0%
Test Distance: 3.090m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

```

Photometric Data Table [cd]

G/C	0.0	45.0	90.0	135.0	180.0	225.0	270.0	315.0
0.0	21993	21993	21993	21993	21993	21993	21993	21993
3.0	19464	19233	19628	20267	20806	20763	20356	19777
6.0	13971	14276	14431	15068	15712	15808	15019	14039
9.0	8893	9214	9657	10144	10544	10453	9772	9085
12.0	5595	5770	6060	6506	6798	6650	6135	5728
15.0	3612	3772	4034	4325	4486	4304	4016	3709
18.0	2343	2507	2805	3020	3104	2894	2662	2375
21.0	1462	1641	1881	2081	2152	1916	1680	1415
24.0	813.6	956.2	1155	1330	1420	1169	956.4	783.3
27.0	442.5	523.6	642.9	765.1	814.5	649.5	521.1	433.4
30.0	277.9	311.7	361.9	425.9	446.5	368.9	310.9	272.9
33.0	192.8	212.8	232.0	259.3	272.4	237.4	209.8	188.0
36.0	141.3	151.7	162.4	176.7	184.6	164.6	148.9	136.7
39.0	108.5	114.7	120.2	127.7	132.5	120.8	111.1	103.7
42.0	87.33	90.44	93.69	96.63	100.4	93.41	86.39	82.01
45.0	71.70	73.71	75.07	75.29	79.12	74.59	69.55	66.10
48.0	60.28	61.72	61.84	60.33	64.38	61.66	57.74	54.65
51.0	51.58	52.63	52.01	49.58	53.74	52.40	49.11	46.17
54.0	44.40	45.38	44.61	42.00	46.01	45.46	42.21	39.30
57.0	35.64	36.95	36.74	33.76	37.50	36.98	34.24	31.98
60.0	28.60	29.83	30.41	27.96	31.12	30.35	27.90	25.57
63.0	21.21	22.59	22.88	21.54	23.90	23.51	21.10	19.09
66.0	14.49	15.69	16.36	15.64	17.45	16.83	14.86	13.25
69.0	9.079	9.623	10.34	10.45	11.28	10.58	9.495	8.786
72.0	4.424	4.749	5.303	5.668	5.857	5.373	4.972	4.428
75.0	2.534	2.615	2.765	2.901	2.924	2.737	2.640	2.503
78.0	1.638	1.668	1.824	1.894	1.948	1.755	1.812	1.626
81.0	1.058	1.074	1.233	1.259	1.305	1.193	1.233	1.034
84.0	0.6100	0.5862	0.6815	0.6587	0.7199	0.6481	0.7021	0.5565
87.0	0.2806	0.2397	0.3373	0.3042	0.3450	0.2988	0.3728	0.2225
90.0	0.1025	0.0603	0.1241	0.0563	0.0586	0.0593	0.1161	0.0612

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-09-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
 Humidity: 65.0%
 Test Distance: 3.090m [K=1.0000]
 Remarks: