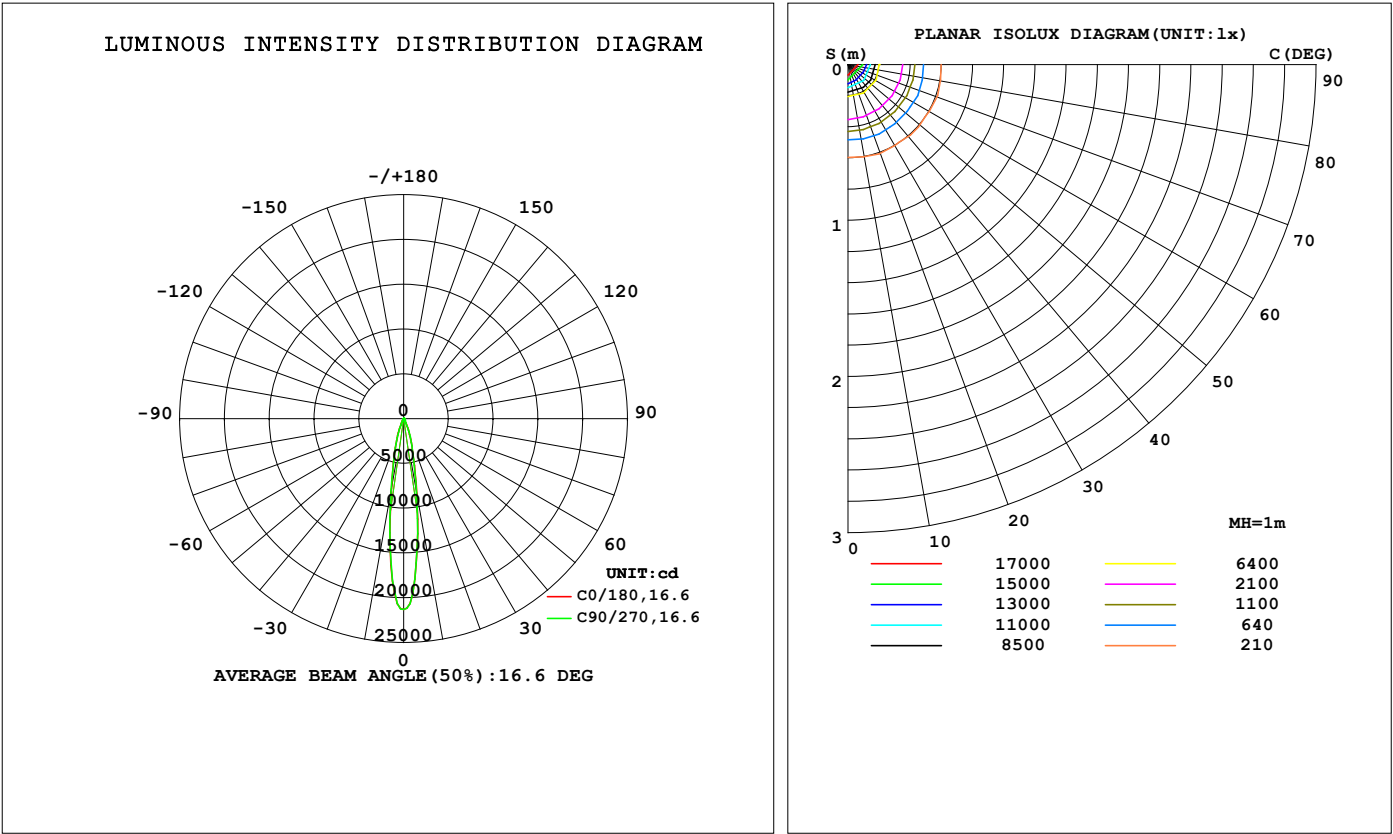


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.3V I:0.1245A P:29.6W PF:0.9884 Freq:49.99Hz		
UTHDi:0.18% ITHDi:35.08% KDisp:0.9905 Lamp Flux:3103.43x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K RA90 15D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 104.94 lm/W
MODEL		Imax (cd)	21314	S/MH(C0/180)	0.28	
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	0.28	
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	3103.4	η UP,DN(C0-180)	0.0,51.2	
NOMINAL FLUX(lm)	3103.43	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,48.8	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	240.15	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:2024-09-14

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	849.1	860.2	833.4	811.9	796.3	812.5	811.8	824.7	0- 10	1286	1286	41.4,41.4
20	215.3	217.7	219.8	206.4	200.9	190.3	195.3	201.7	10- 20	1152	2438	78.6,78.6
30	35.86	37.68	37.44	33.93	32.74	30.48	30.39	31.45	20- 30	431.4	2869	92.5,92.5
40	11.17	11.49	11.34	10.76	10.64	10.17	10.10	10.21	30- 40	117.2	2986	96.2,96.2
50	5.800	5.883	5.479	5.071	5.304	5.309	5.177	5.128	40- 50	58.08	3045	98.1,98.1
60	3.198	3.321	2.972	2.682	2.856	2.896	2.798	2.757	50- 60	36.76	3081	99.3,99.3
70	0.8824	0.9050	0.8613	0.8002	0.7547	0.6949	0.7306	0.7795	60- 70	17.94	3099	99.9,99.9
80	0.1413	0.1411	0.1486	0.1423	0.1399	0.1322	0.1609	0.1331	70- 80	3.528	3103	100,100
90	0.0104	0.0058	0.0122	0.0063	0.0063	0.0070	0.0161	0.0054	80- 90	0.6472	3103	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): 3019.2 lm

%lum = 97.3%

%lamp = 97.3%

Conical surface Flux(120deg): 3081.3 lm

%lum = 99.3%

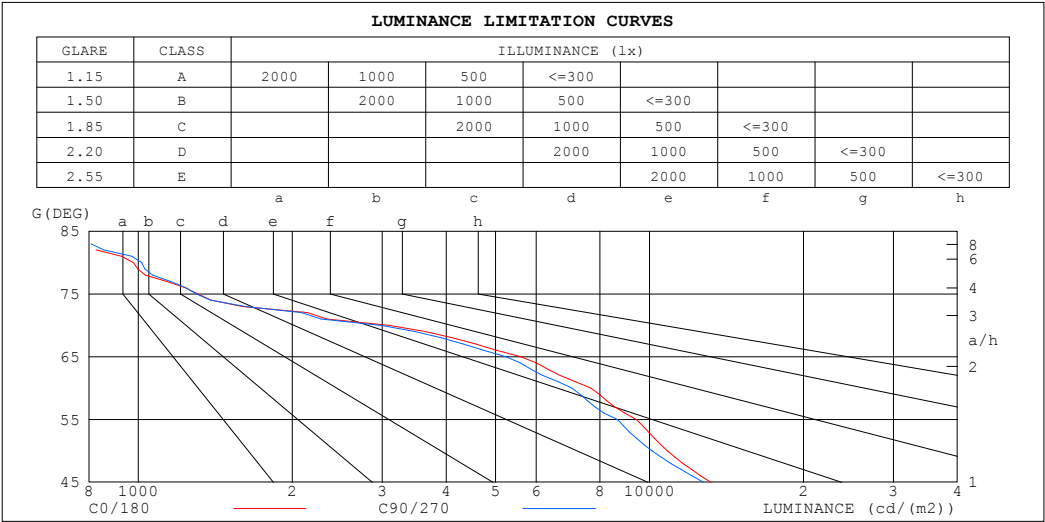
%lamp = 99.3%

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-14

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:0.9884 Freq:49.99Hz		
UTHDi:0.18% ITHDi:35.08% KDisp:0.9905Lamp Flux:3103.43x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K 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	768	789
80	978	1016
75	1309	1300
70	3099	2988
65	5611	5242
60	7683	7053
55	9423	8654
50	10837	10114
45	13188	12758

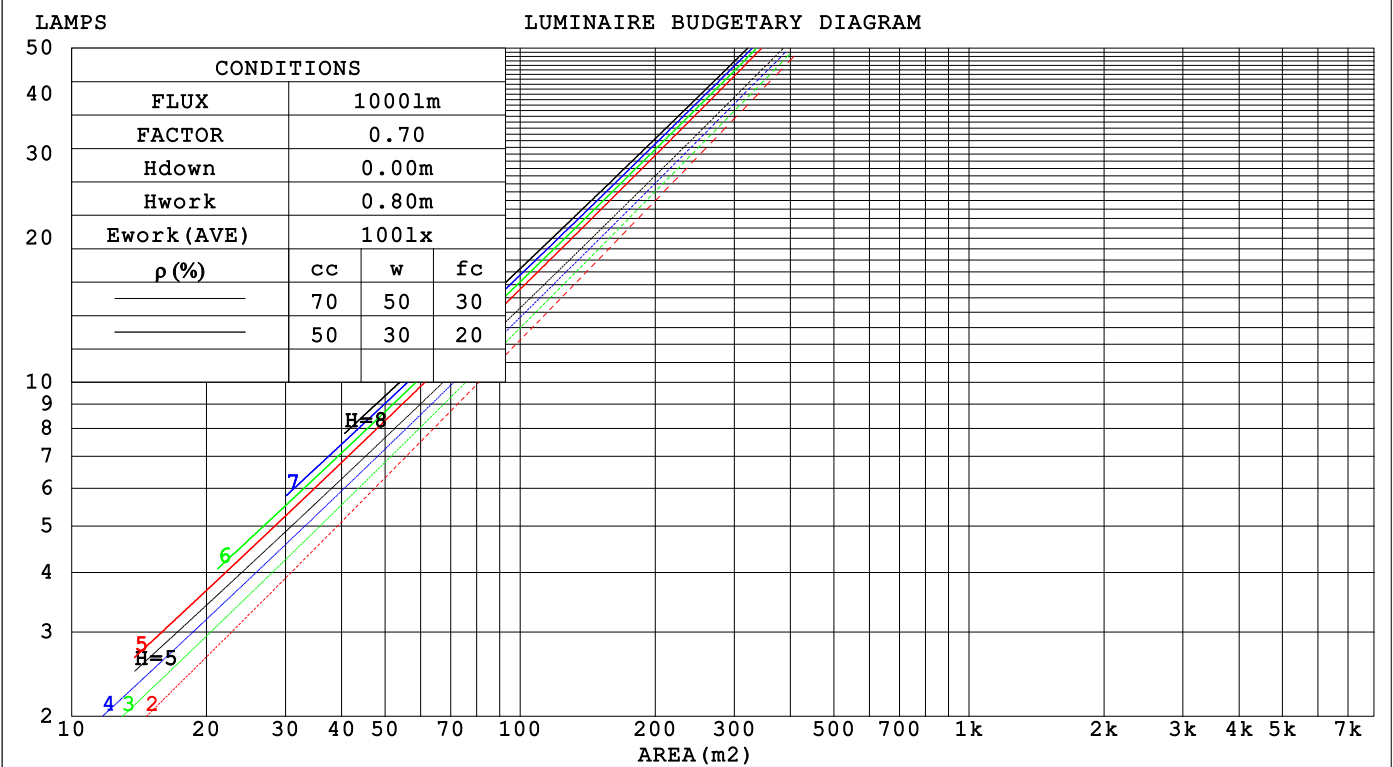
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-14

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:0.9884 Freq:49.99Hz			UTHDi:0.18% ITHDi:35.08% KDisp:0.9905			Lamp Flux:3103.43x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K 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:2024-09-14

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:0.9884 Freq:49.99Hz			UTHDi:0.18% ITHDi:35.08% KDisp:0.9905			Lamp Flux:3103.43x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K 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	.022	.122	.067	.021	.112	.062	.019	.103	.058	.018	.094	.053	.017															
3.0	.119	.063	.019	.115	.061	.018	.106	.057	.017	.098	.054	.017	.091	.050	.016															
4.0	.111	.058	.017	.108	.056	.017	.100	.053	.016	.094	.050	.015	.087	.048	.014															
5.0	.105	.053	.015	.101	.052	.015	.095	.050	.015	.090	.047	.014	.084	.045	.014															
6.0	.099	.049	.014	.096	.048	.014	.091	.046	.014	.086	.045	.013	.081	.043	.013															
7.0	.093	.046	.013	.091	.045	.013	.086	.044	.013	.082	.042	.012	.078	.041	.012															
8.0	.089	.043	.012	.087	.043	.012	.083	.041	.012	.079	.040	.012	.075	.039	.011															
9.0	.085	.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	.068	.073	.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	.048	.061	.046	.034	.036	.027	.020	.011	.009	.007	
7.0	.096	.067	.048	.082	.058	.041	.057	.041	.029	.033	.024	.017	.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:2024-09-14

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:0.9884 Freq:49.99Hz										
UTHDi:0.18% ITHDi:35.08% KDisp:0.9905					Lamp Flux:3103.43x1 lm					
NAME: TR11-35-XX-01+白色防眩环 2700K 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	13.1	13.7	13.3	13.8	14.0	12.9	13.6	13.1	13.7	13.9
3H	13.3	13.9	13.5	14.1	14.3	13.1	13.7	13.4	13.9	14.1
4H	13.2	13.8	13.5	14.0	14.2	13.1	13.7	13.3	13.9	14.1
6H	13.2	13.7	13.4	13.9	14.2	13.0	13.6	13.3	13.8	14.0
8H	13.1	13.7	13.4	13.9	14.2	13.0	13.5	13.3	13.7	14.0
12H	13.1	13.6	13.4	13.9	14.1	12.9	13.4	13.2	13.7	14.0
4H 2H	13.2	13.8	13.5	14.0	14.2	13.1	13.7	13.4	13.9	14.1
3H	13.5	14.0	13.8	14.2	14.5	13.3	13.9	13.6	14.1	14.4
4H	13.4	13.9	13.8	14.2	14.5	13.3	13.8	13.6	14.0	14.3
6H	13.3	13.8	13.7	14.1	14.4	13.2	13.6	13.6	14.0	14.3
8H	13.3	13.7	13.7	14.0	14.4	13.2	13.6	13.6	13.9	14.3
12H	13.3	13.6	13.7	14.0	14.4	13.1	13.5	13.5	13.8	14.2
8H 4H	13.3	13.7	13.7	14.0	14.4	13.2	13.6	13.6	13.9	14.3
6H	13.2	13.5	13.6	13.9	14.3	13.1	13.4	13.5	13.8	14.2
8H	13.2	13.5	13.6	13.9	14.3	13.0	13.3	13.5	13.7	14.2
12H	13.1	13.4	13.6	13.8	14.3	13.0	13.2	13.5	13.7	14.1
12H 4H	13.2	13.6	13.7	14.0	14.4	13.1	13.5	13.5	13.8	14.2
6H	13.2	13.5	13.6	13.9	14.3	13.0	13.3	13.5	13.7	14.2
8H	13.1	13.4	13.6	13.8	14.3	13.0	13.2	13.4	13.7	14.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.0 / - 1.5					+ 1.2 / - 1.6				
1.5H	+ 1.5 / - 0.8					+ 1.7 / - 1.1				
2.0H	+ 1.4 / - 1.3					+ 1.4 / - 1.3				

CIE Pub.117, 3103 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 3.9$)
Area: 0.0084 m²

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-14

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:0.9884 Freq:49.99Hz		
UTHDi:0.18% ITHDi:35.08% KDisp:0.9905 Lamp Flux:3103.43x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K RA90 15D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

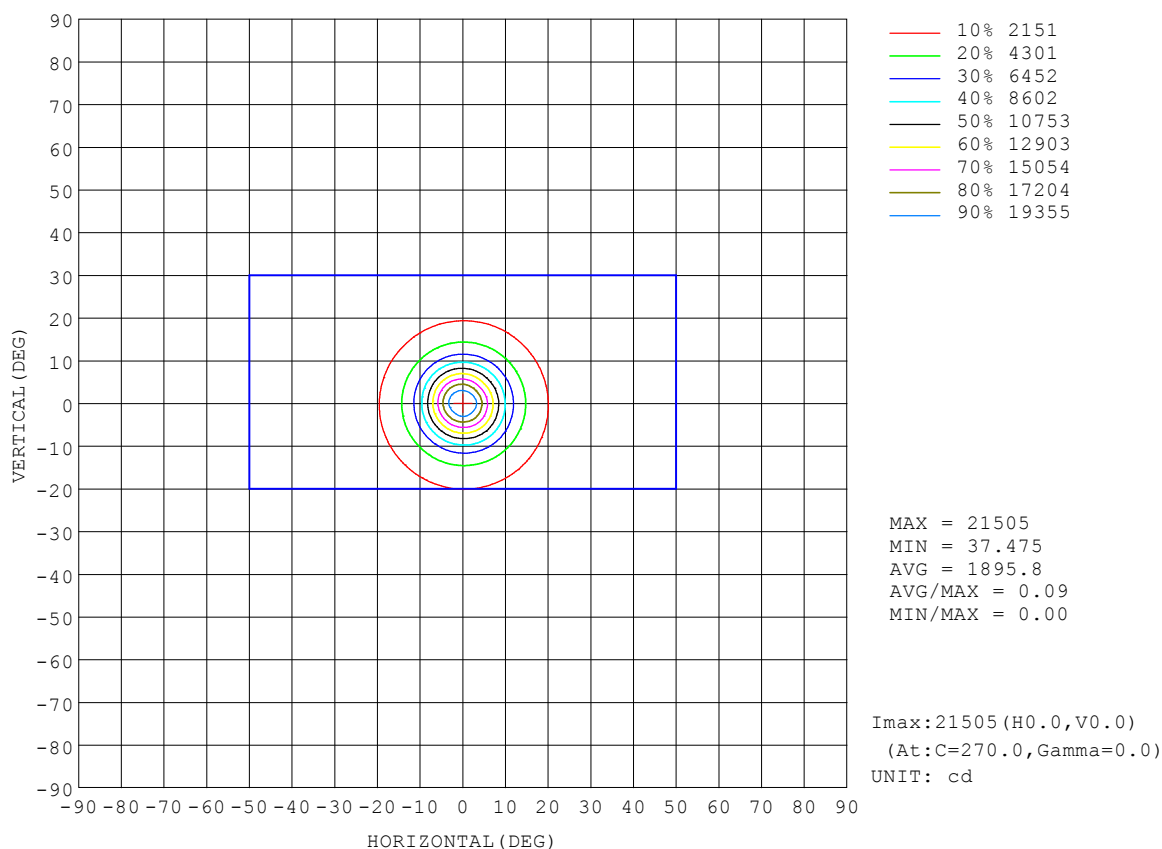
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	80	89	83	79	88	83	79	76
0.80	96	91	87	96	91	87	95	90	87	83
1.00	100	95	92	100	95	91	98	94	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	109	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: 2024-09-14

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:

ISOCANDELA DIAGRAM

Test:U:240.3V I:0.1245A P:29.6W PF:0.9884 Freq:49.99Hz		
UTHDi:0.18% ITHDi:35.08% KDisp:0.9905 Lamp Flux:3103.43x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K RA90 15D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

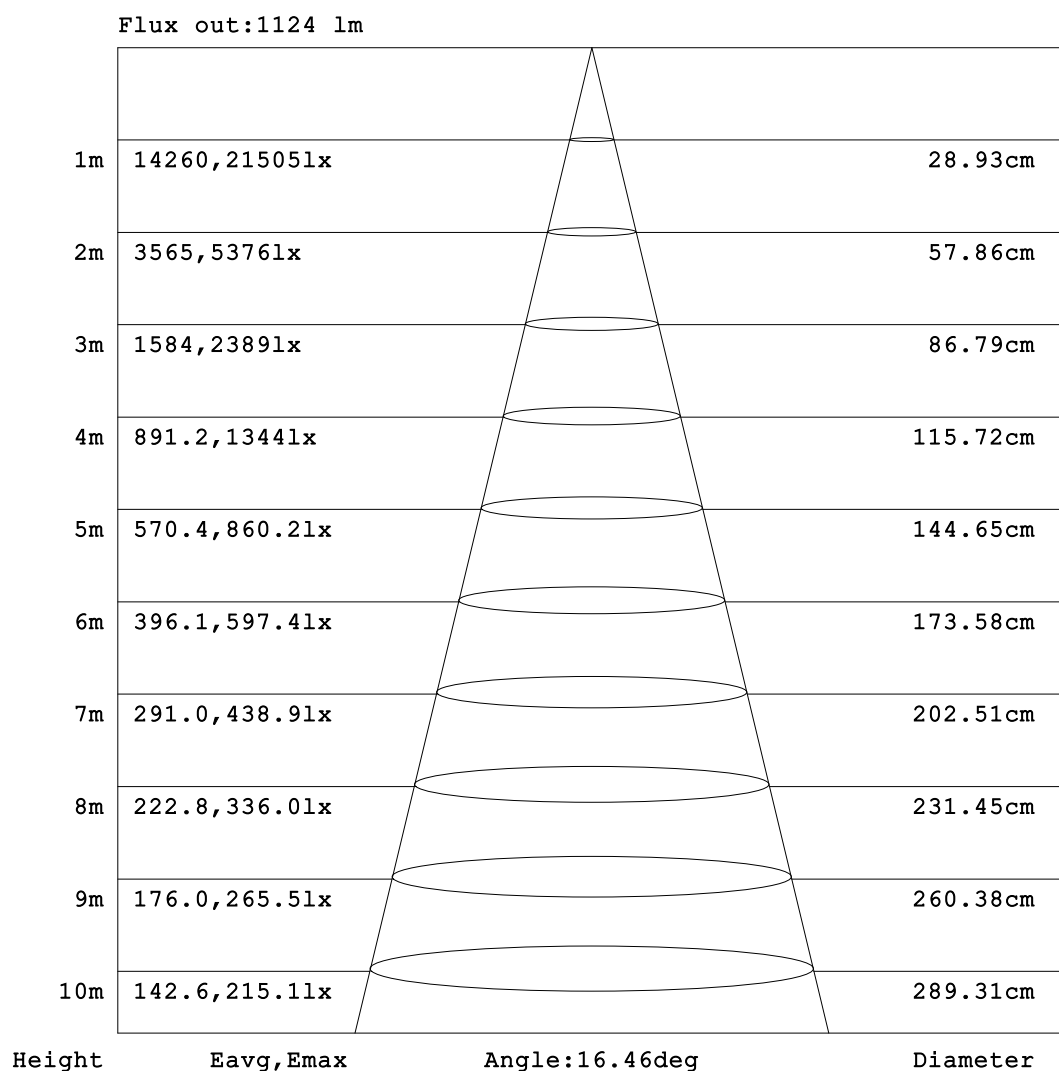


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-09-14

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:

AAI Figure

Test:U:240.3V I:0.1245A P:29.6W PF:0.9884 Freq:49.99Hz		
UTHDi:0.18% ITHDi:35.08% KDisp:0.9905 Lamp Flux:3103.43x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K RA90 15D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:



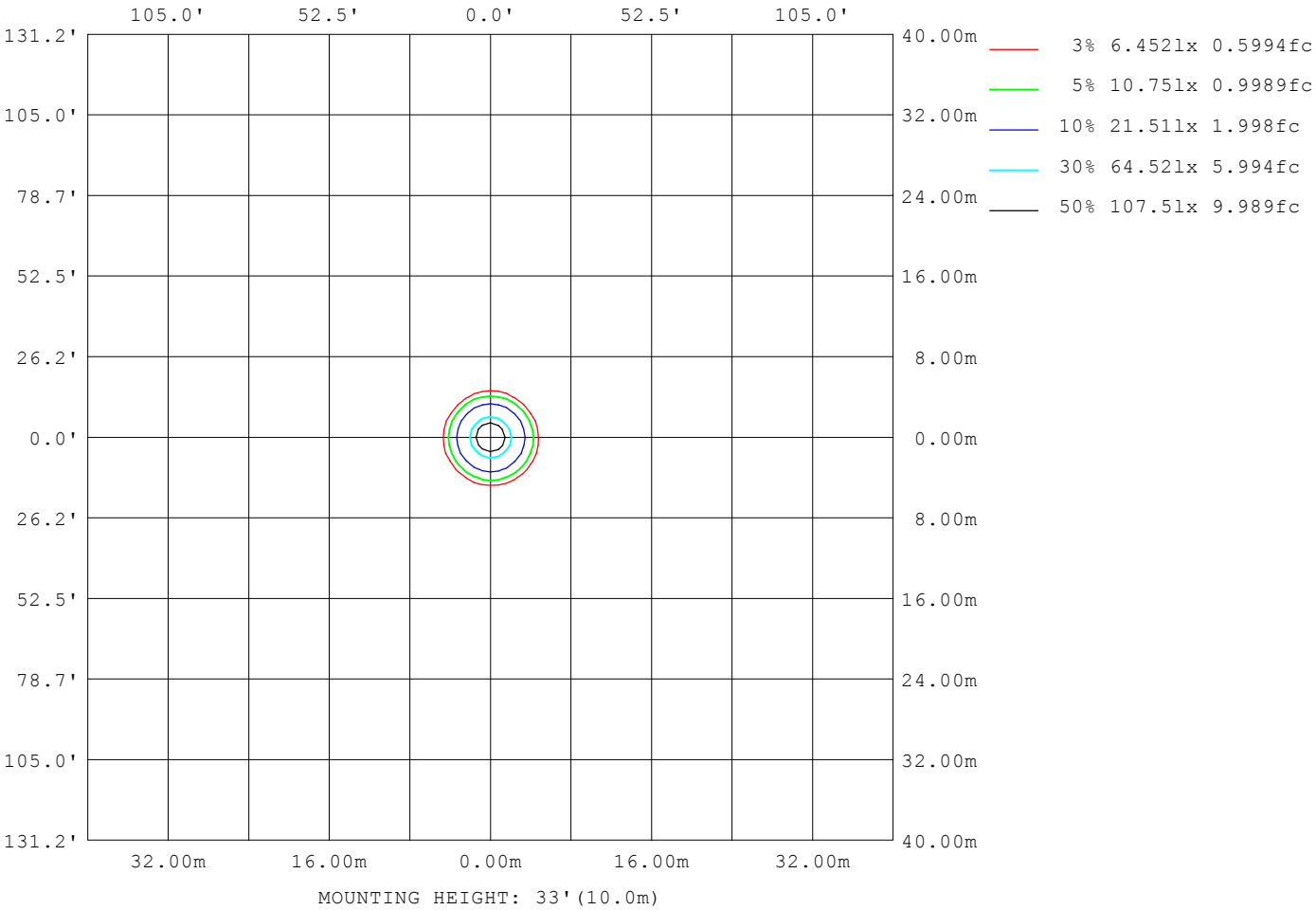
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-09-14

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:0.9884 Freq:49.99Hz		
UTHDi:0.18% ITHDi:35.08% KDisp:0.9905 Lamp Flux:3103.43x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K 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:2024-09-14	Remarks:

LED Avg.L Report

Test:U:240.3V I:0.1245A P:29.6W PF:0.9884 Freq:49.99Hz UTHDi:0.18% ITHDi:35.08% KDisp:0.9905 Lamp Flux:3103.43x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K RA90 15D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

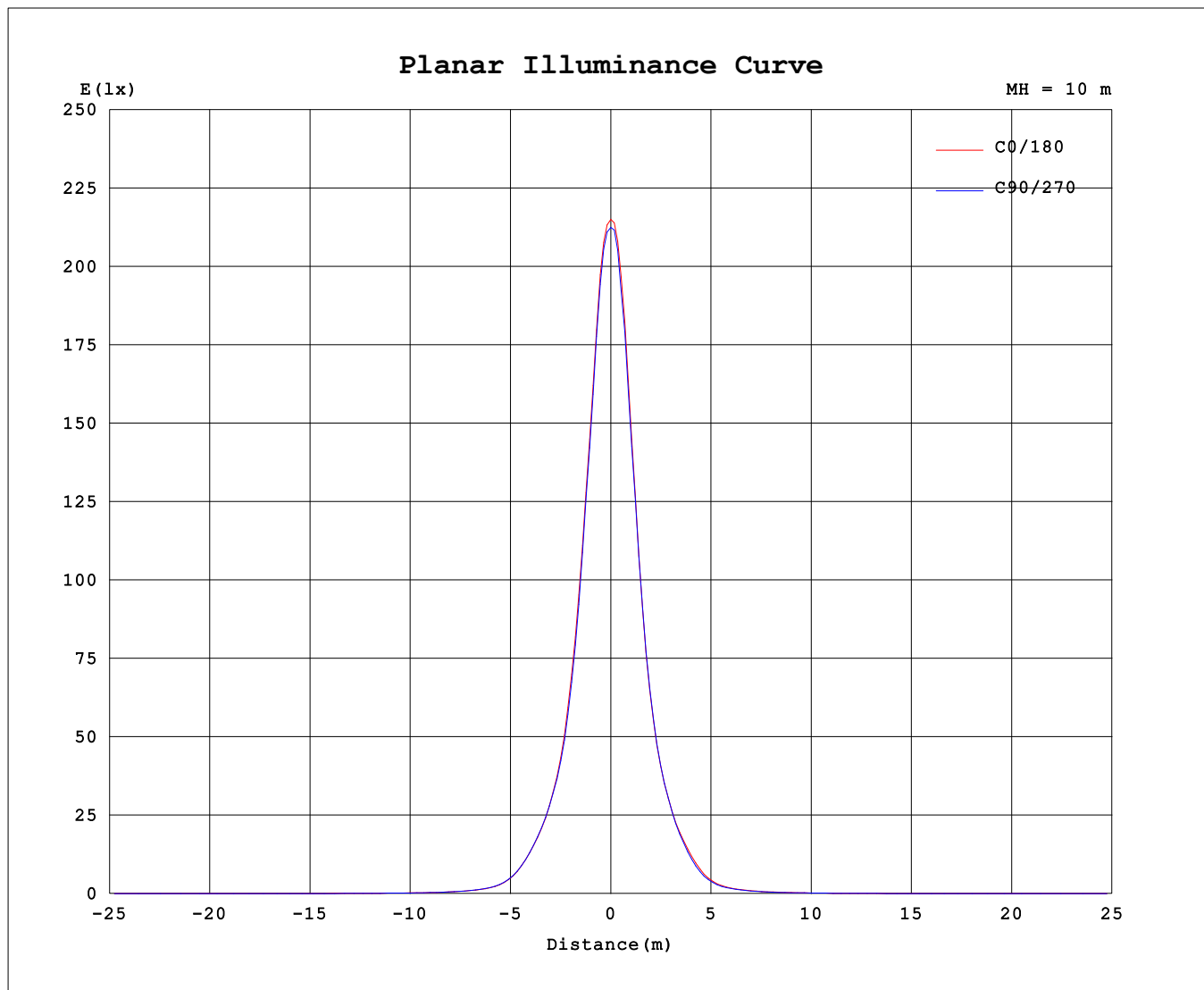
AvgL	cd/m2
L_0~180 (65) av	5252
L_0~180 (75) av	1273
L_0~180 (85) av	751
L_90~270 (65) av	5056
L_90~270 (75) av	1291
L_90~270 (85) av	854
L_45 (65) av	5113
L_45 (75) av	1250
L_45 (85) av	679

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-14

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: 2024-09-14

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	21314	21314	21314	21314	21314	21314	21314	21314
3.0	19638	19363	19579	19426	19584	19570	19373	19511
6.0	14608	14758	14512	14535	14607	14751	14546	14277
9.0	9798	9983	9609	9510	9347	9661	9503	9630
12.0	6300	6349	6145	5960	5861	5911	5982	6136
15.0	4121	4140	4088	3961	3876	3843	3934	4016
18.0	2792	2819	2842	2722	2614	2535	2612	2693
21.0	1882	1910	1913	1769	1739	1624	1649	1721
24.0	1160	1205	1176	1046	1021	941.8	931.8	989.7
27.0	633.8	669.9	656.2	582.6	552.6	503.1	507.1	536.3
30.0	358.6	376.8	374.4	339.3	327.4	304.8	303.9	314.5
33.0	233.6	241.7	243.8	224.6	219.7	206.8	205.5	209.3
36.0	163.5	169.6	170.9	159.1	156.0	148.2	146.6	148.8
39.0	121.8	125.6	124.6	117.8	116.2	111.1	110.1	111.5
42.0	95.93	97.41	95.93	90.38	90.33	87.22	85.95	87.37
45.0	77.63	78.58	76.03	71.31	72.48	70.61	69.35	70.00
48.0	64.73	65.52	62.05	57.66	59.63	59.01	57.69	57.64
51.0	55.09	55.89	51.68	47.78	50.22	50.59	49.20	48.54
54.0	47.41	48.25	44.01	40.73	43.21	44.34	42.42	41.39
57.0	38.73	39.96	35.89	32.58	34.90	35.85	34.51	33.90
60.0	31.98	33.21	29.72	26.82	28.56	28.96	27.98	27.57
63.0	23.92	25.39	22.43	20.57	21.72	22.35	21.18	20.62
66.0	17.03	18.31	16.25	14.66	15.25	15.52	14.99	14.60
69.0	10.85	11.38	10.50	9.736	9.614	9.341	9.479	9.741
72.0	5.512	5.603	5.435	5.307	5.106	4.757	5.020	5.109
75.0	2.820	2.836	2.836	2.793	2.715	2.575	2.776	2.671
78.0	1.786	1.804	1.870	1.830	1.789	1.681	2.086	1.720
81.0	1.207	1.212	1.281	1.202	1.179	1.100	1.317	1.118
84.0	0.6788	0.6470	0.7023	0.6386	0.6660	0.6082	0.7755	0.5887
87.0	0.3386	0.2922	0.3566	0.2829	0.2883	0.2600	0.4562	0.2485
90.0	0.1038	0.0583	0.1222	0.0632	0.0634	0.0696	0.1612	0.0544

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-09-14

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: