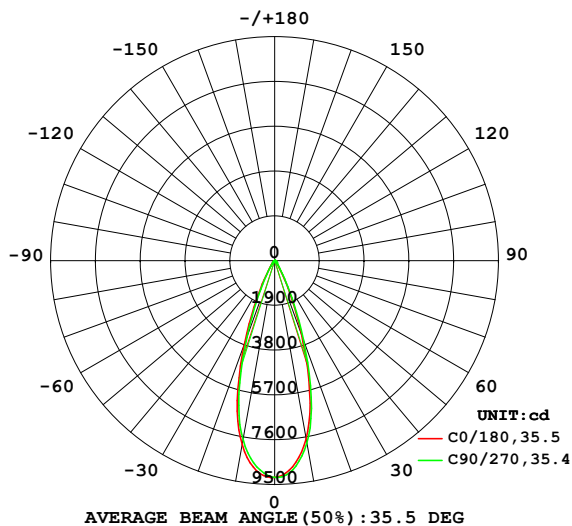


LUMINAIRE PHOTOMETRIC TEST REPORT

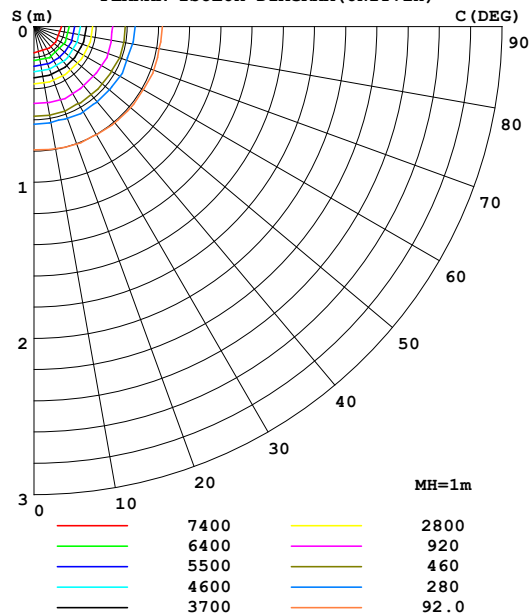
Test:U:240.4V I:0.1427A P:34.0W PF:0.9909 Freq:49.99Hz		
UTHDi:0.17% ITHDi:32.43% KDisp:-0.9853 Lamp Flux:3602.26x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 36D 35W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 105.98 lm/W			
MODEL		I _{max} (cd)	9213	S/MH(C0/180)	0.57
NOMINAL POWER(W)	35	LOR(%)	100.0	S/MH(C90/270)	0.55
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	3602.3	η UP,DN(C0-180)	0.0,50.2
NOMINAL FLUX(lm)	3602.26	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.8
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	240.39	η down (%)	100.0	CIBSE SHR MAX	0.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



PLANAR ISOLUX DIAGRAM(UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
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	7699	7782	7880	7924	7936	7829	7730	7682	0- 10	811.6	811.6	22.5,22.5
20	3335	3453	3581	3717	3745	3619	3439	3321	10- 20	1590	2402	66.7,66.7
30	615.9	668.9	713.0	766.6	783.2	694.6	636.2	595.1	20- 30	808.3	3210	89.1,89.1
40	158.1	173.1	186.1	200.1	195.1	171.2	157.6	149.0	30- 40	210.2	3420	94.9,94.9
50	79.53	87.46	94.97	95.93	97.09	86.46	77.29	73.27	40- 50	93.83	3514	97.6,97.6
60	40.10	43.24	44.19	44.47	45.71	43.80	40.03	37.61	50- 60	55.85	3570	99.1,99.1
70	12.51	13.55	14.38	14.97	15.13	14.19	13.17	12.25	60- 70	26.46	3596	99.8,99.8
80	1.844	1.856	1.967	1.995	2.003	1.908	2.016	1.819	70- 80	4.956	3601	100,100
90	0.1125	0.0774	0.1271	0.0741	0.0788	0.0829	0.1245	0.0782	80- 90	0.8414	3602	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:cd									UNIT:lm		

Conical surface Flux(90deg): 3473.2 lm

%lum = 96.4%

%lamp = 96.4%

Conical surface Flux(120deg): 3570 lm

%lum = 99.1%

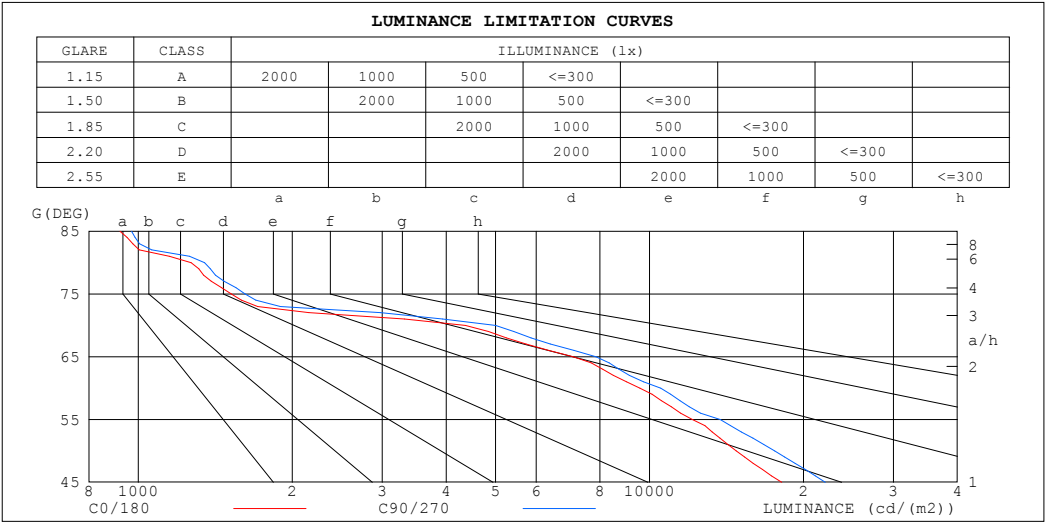
%lamp = 99.1%

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
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:240.4V I:0.1427A P:34.0W PF:0.9909 Freq:49.99Hz		
UTHDi:0.17% ITHDi:32.43% KDisp:-0.9853 Lamp Flux:3602.26x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 36D 35W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	921	970
80	1268	1347
75	1522	1617
70	4366	4999
65	7098	7859
60	9575	10510
55	12131	13750
50	14772	17572
45	18143	22061

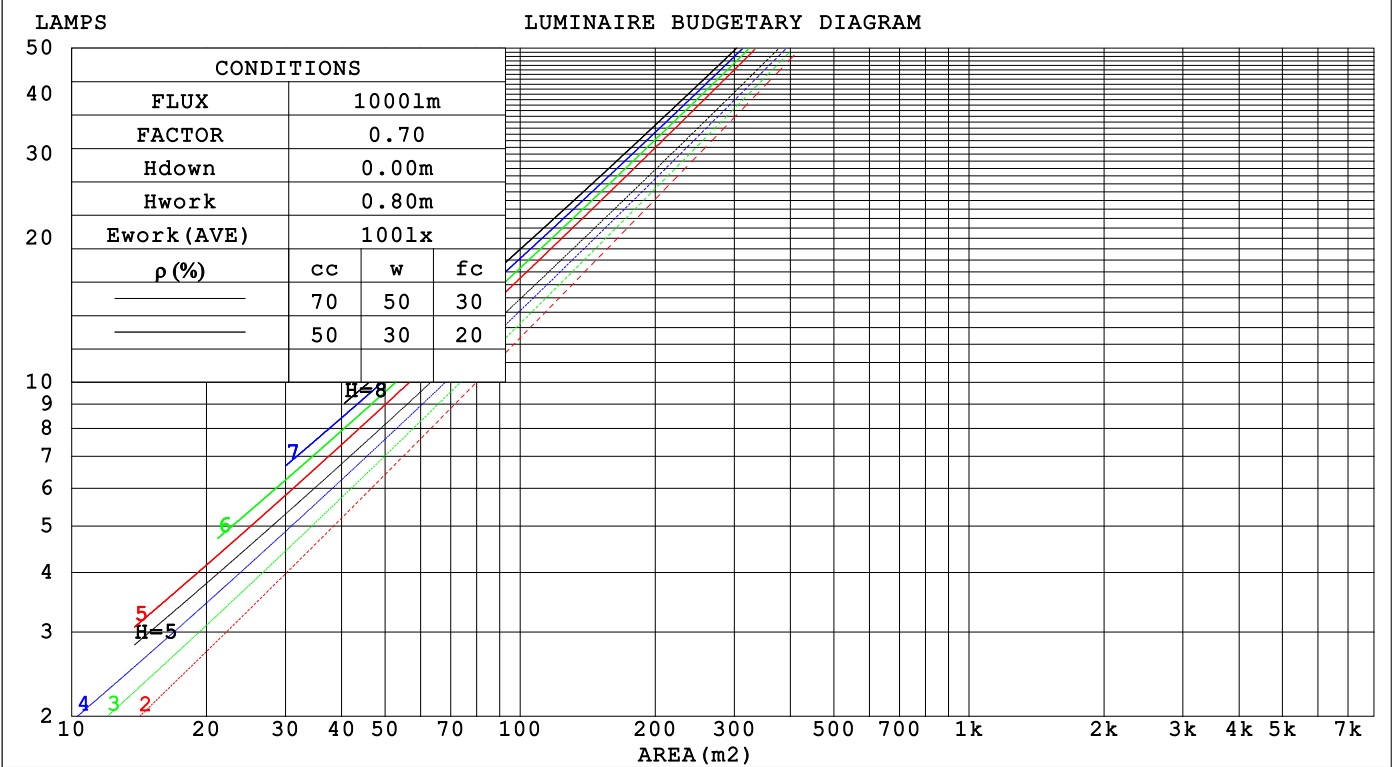
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-13

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:240.4V I:0.1427A P:34.0W PF:0.9909 Freq:49.99Hz		
UTHDi:0.17% ITHDi:32.43% KDisp:-0.9853		
Lamp Flux:3602.26x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 36D 35W	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: HIGH
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:240.4V I:0.1427A P:34.0W PF:0.9909 Freq:49.99Hz			UTHDi:0.17% ITHDi:32.43% KDisp:-0.9853			Lamp Flux:3602.26x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 36D 35W			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	.155	.088	.028	.148	.084	.027	.135	.078	.025	.124	.072	.023	.113	.066	.021															
2.0	.145	.080	.024	.140	.077	.024	.130	.072	.022	.120	.067	.021	.111	.063	.020															
3.0	.137	.073	.022	.132	.071	.021	.123	.067	.020	.115	.063	.019	.108	.060	.018															
4.0	.129	.067	.020	.125	.065	.019	.118	.062	.019	.111	.059	.018	.104	.057	.017															
5.0	.122	.062	.018	.119	.061	.018	.112	.058	.017	.106	.056	.017	.101	.054	.016															
6.0	.116	.058	.017	.113	.057	.016	.107	.055	.016	.102	.053	.016	.097	.051	.015															
7.0	.110	.055	.015	.108	.054	.015	.103	.052	.015	.098	.050	.015	.094	.049	.014															
8.0	.105	.051	.014	.103	.051	.014	.099	.049	.014	.095	.048	.014	.091	.047	.014															
9.0	.101	.049	.014	.099	.048	.014	.095	.047	.013	.091	.046	.013	.088	.045	.013															
10.0	.097	.046	.013	.095	.046	.013	.091	.045	.013	.088	.044	.012	.085	.043	.012															

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	.170	.158	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.116	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.139	.113	.093	.119	.098	.081	.082	.068	.057	.047	.040	.033	.015	.013	.011	
4.0	.127	.098	.076	.109	.085	.066	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.117	.086	.063	.101	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.109	.077	.053	.094	.066	.046	.065	.046	.033	.038	.027	.019	.012	.009	.006	
7.0	.102	.069	.045	.088	.060	.039	.061	.042	.028	.035	.025	.017	.011	.008	.006	
8.0	.096	.062	.039	.082	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.090	.057	.034	.078	.049	.030	.054	.035	.021	.031	.020	.013	.010	.007	.004	
10.0	.086	.052	.030	.074	.045	.026	.051	.032	.018	.030	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
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:240.4V I:0.1427A P:34.0W PF:0.9909 Freq:49.99Hz											
UTHDi:0.17% ITHDi:32.43% KDisp:-0.9853 Lamp Flux:3602.26x1 lm											
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 36D 35W						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		15.0	15.7	15.2	15.9	16.1	15.5	16.3	15.7	16.5	16.6
	3H	15.1	15.8	15.4	16.0	16.2	15.7	16.4	15.9	16.6	16.8
	4H	15.1	15.7	15.3	16.0	16.2	15.6	16.3	15.9	16.5	16.7
	6H	15.0	15.6	15.3	15.9	16.1	15.6	16.2	15.8	16.4	16.7
	8H	15.0	15.6	15.3	15.8	16.1	15.5	16.1	15.8	16.4	16.6
	12H	14.9	15.5	15.2	15.8	16.0	15.5	16.1	15.8	16.3	16.6
4H	2H	15.1	15.8	15.4	16.0	16.2	15.6	16.3	15.9	16.5	16.7
	3H	15.3	15.9	15.6	16.1	16.4	15.8	16.4	16.1	16.6	16.9
	4H	15.2	15.8	15.6	16.0	16.3	15.7	16.3	16.1	16.5	16.9
	6H	15.1	15.6	15.5	15.9	16.3	15.6	16.1	16.0	16.4	16.8
	8H	15.1	15.5	15.5	15.9	16.2	15.6	16.0	16.0	16.4	16.7
	12H	15.0	15.4	15.4	15.8	16.2	15.5	15.9	15.9	16.3	16.7
8H	4H	15.1	15.5	15.5	15.9	16.2	15.6	16.0	16.0	16.4	16.7
	6H	15.0	15.4	15.4	15.8	16.2	15.5	15.9	15.9	16.3	16.7
	8H	15.0	15.3	15.4	15.7	16.1	15.5	15.8	15.9	16.2	16.6
	12H	14.9	15.2	15.4	15.6	16.1	15.4	15.7	15.9	16.1	16.6
12H	4H	15.0	15.4	15.4	15.8	16.2	15.5	15.9	15.9	16.3	16.7
	6H	15.0	15.3	15.4	15.7	16.1	15.5	15.8	15.9	16.2	16.6
	8H	14.9	15.2	15.4	15.6	16.1	15.4	15.7	15.9	16.1	16.6
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 1.2 / - 1.8					+ 1.4 / - 1.9				
1.5H		+ 1.6 / - 1.1					+ 2.0 / - 1.2				
2.0H		+ 1.7 / - 1.6					+ 2.2 / - 1.9				

CIE Pub.117, 3602 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.5$)
Area: 0.0084 m²

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
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:240.4V I:0.1427A P:34.0W PF:0.9909 Freq:49.99Hz		
UTHDi:0.17% ITHDi:32.43% KDisp:-0.9853 Lamp Flux:3602.26x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 36D 35W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

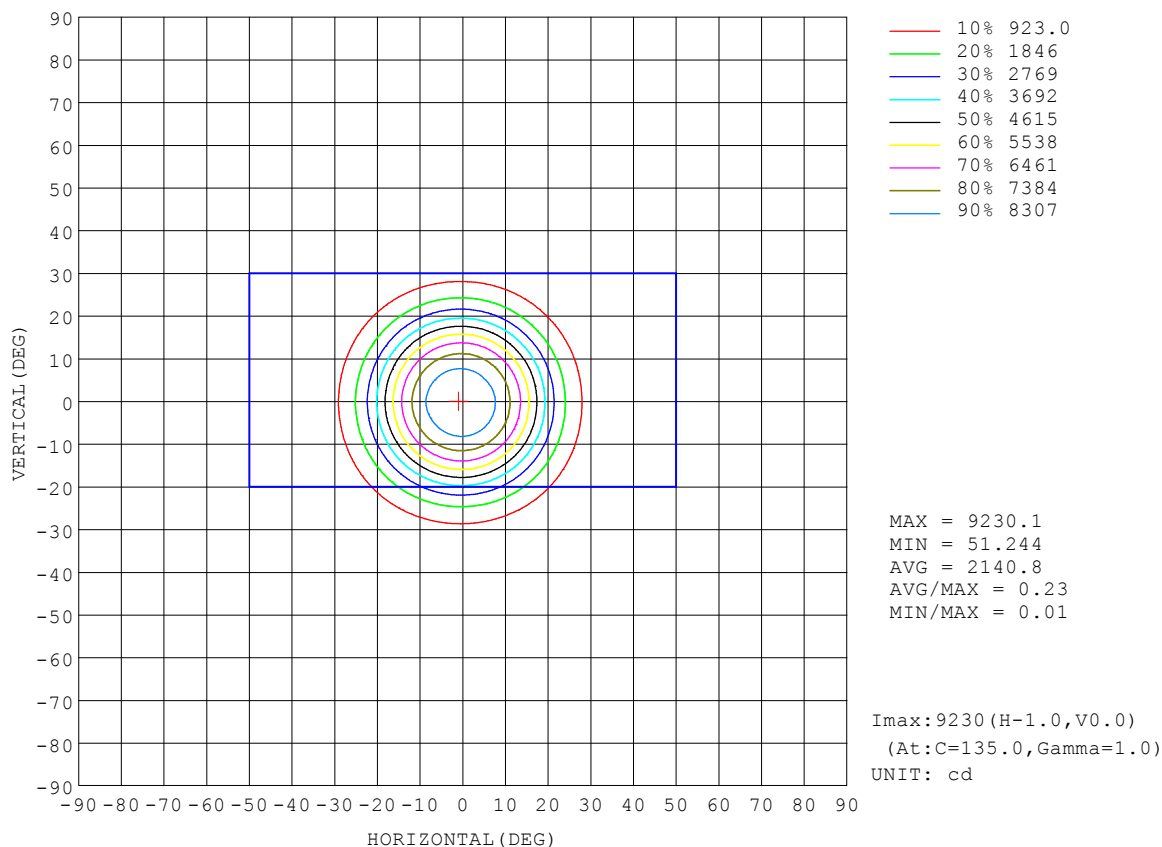
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	88	82	79	88	82	78	87	82	78	75
0.80	96	90	86	95	90	86	94	89	86	82
1.00	100	94	91	99	94	91	97	94	90	86
1.25	104	99	95	103	98	95	101	97	94	90
1.50	106	102	99	105	101	98	103	100	97	93
2.00	109	105	102	107	104	101	105	102	99	94
2.50	111	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	96
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	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: HIGH
 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:

ISOCANDELA DIAGRAM

Test:U:240.4V I:0.1427A P:34.0W PF:0.9909 Freq:49.99Hz		
UTHDi:0.17% ITHDi:32.43% KDisp:-0.9853 Lamp Flux:3602.26x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 36D 35W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

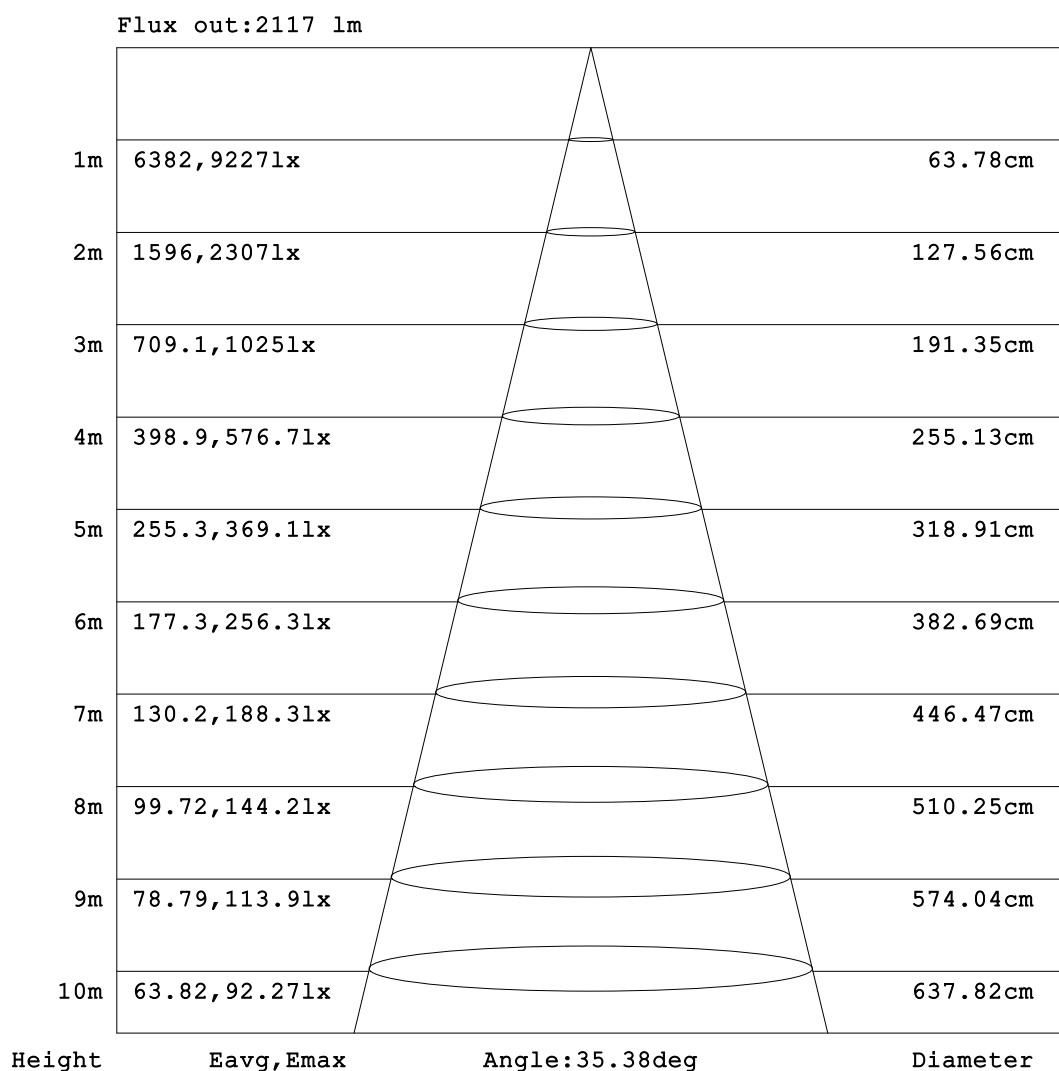


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-13

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:

AAI Figure

Test:U:240.4V I:0.1427A P:34.0W PF:0.9909 Freq:49.99Hz		
UTHDi:0.17% ITHDi:32.43% KDisp:-0.9853 Lamp Flux:3602.26x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 36D 35W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

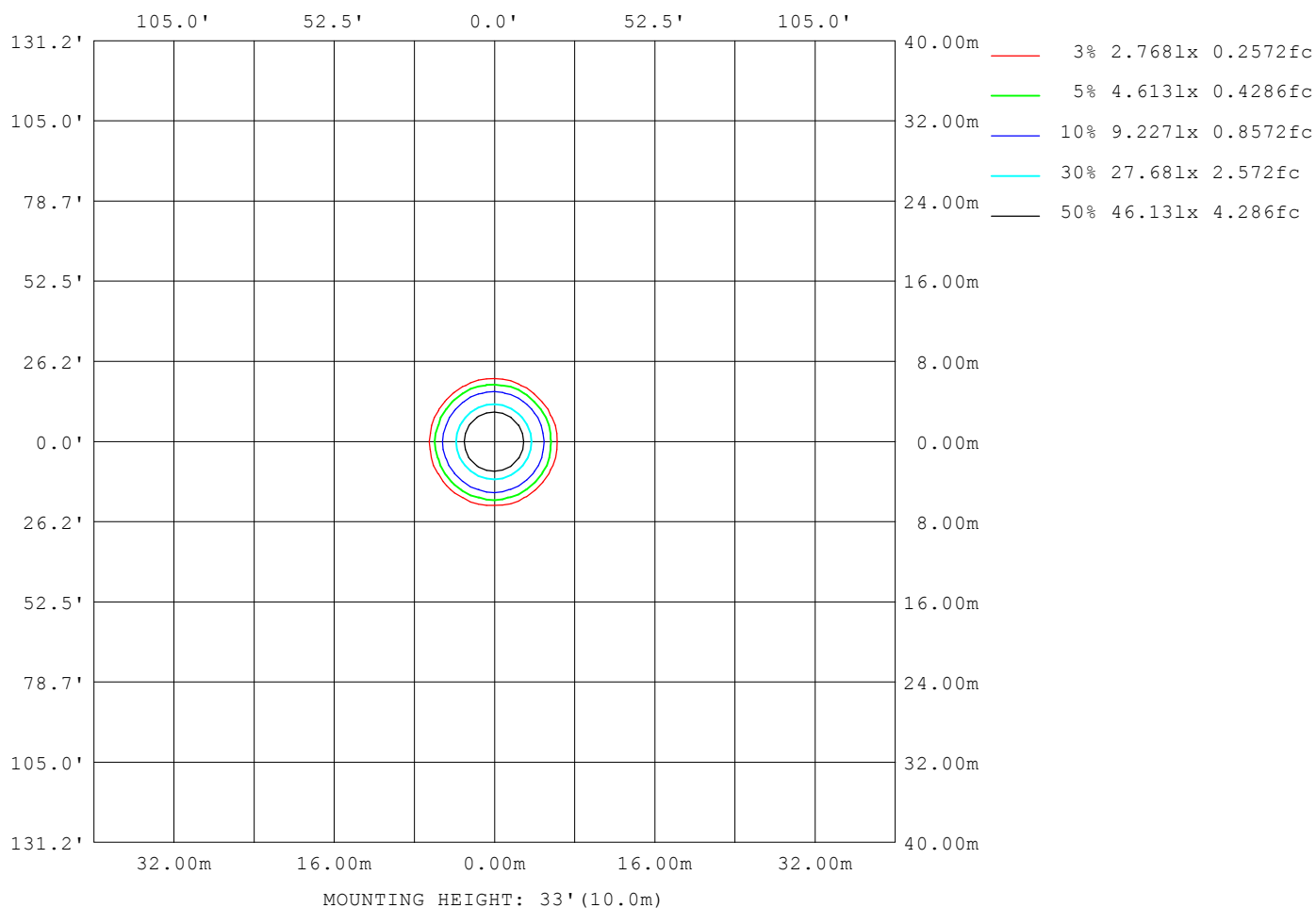


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-13

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:240.4V I:0.1427A P:34.0W PF:0.9909 Freq:49.99Hz UTHDi:0.17% ITHDi:32.43% KDisp:-0.9853 Lamp Flux:3602.26x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 36D 35W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
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:240.4V I:0.1427A P:34.0W PF:0.9909 Freq:49.99Hz UTHDi:0.17% ITHDi:32.43% KDisp:-0.9853 Lamp Flux:3602.26x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 36D 35W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

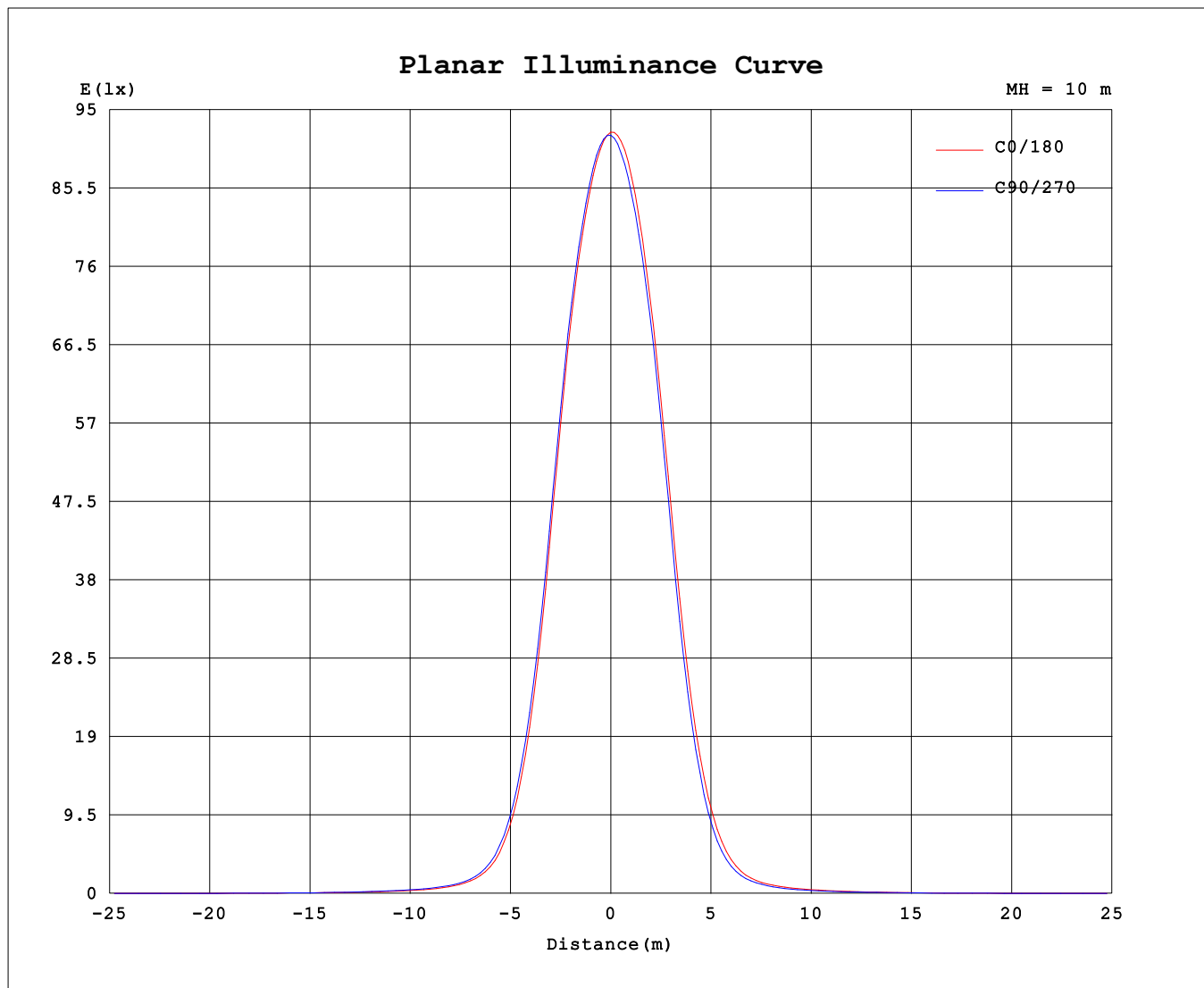
AvgL	cd/m2
L_0~180 (65) av	7697
L_0~180 (75) av	1598
L_0~180 (85) av	971
L_90~270 (65) av	7555
L_90~270 (75) av	1623
L_90~270 (85) av	1005
L_45 (65) av	7564
L_45 (75) av	1595
L_45 (85) av	909

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
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: HIGH
 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	9200	9200	9200	9200	9200	9200	9200	9200
3.0	9027	9081	9110	9126	9127	9071	9019	8993
6.0	8610	8697	8751	8777	8795	8736	8615	8582
9.0	7968	8054	8144	8184	8205	8095	7997	7944
12.0	7047	7136	7254	7331	7334	7224	7118	7050
15.0	5767	5884	6003	6115	6142	6028	5874	5780
18.0	4278	4401	4532	4672	4704	4597	4398	4282
21.0	2917	3033	3152	3273	3306	3174	3003	2888
24.0	1846	1964	2052	2165	2182	2037	1924	1809
27.0	1080	1163	1237	1312	1344	1217	1120	1047
30.0	615.9	668.9	713.0	766.6	783.2	694.6	636.2	595.1
33.0	370.3	401.5	426.0	458.9	461.1	409.1	374.7	356.1
36.0	242.8	263.4	280.7	301.2	298.6	264.5	243.3	232.0
39.0	173.9	189.8	203.8	220.2	215.8	188.3	173.8	164.6
42.0	133.2	147.1	159.5	169.3	164.7	144.6	132.4	124.8
45.0	107.5	119.6	131.2	135.9	132.9	116.7	106.0	99.68
48.0	89.46	98.89	108.4	110.3	110.1	96.20	87.20	82.57
51.0	75.09	82.28	88.56	89.52	90.98	81.42	72.92	69.10
54.0	63.16	68.25	71.18	72.40	74.23	67.97	61.21	58.71
57.0	50.28	53.99	54.77	54.77	56.44	54.17	49.55	46.76
60.0	40.10	43.24	44.19	44.47	45.71	43.80	40.03	37.61
63.0	30.79	33.03	33.29	33.20	34.85	33.84	31.16	29.25
66.0	21.61	23.52	24.32	24.78	25.96	24.47	22.19	20.49
69.0	14.52	15.68	16.34	16.88	17.17	16.26	15.04	14.18
72.0	5.578	6.111	7.724	7.457	7.622	6.676	6.194	5.489
75.0	3.298	3.419	3.519	3.687	3.651	3.478	3.540	3.282
78.0	2.336	2.367	2.474	2.535	2.543	2.409	2.485	2.303
81.0	1.507	1.530	1.657	1.701	1.732	1.624	1.709	1.490
84.0	0.8319	0.7982	0.8663	0.8555	0.9118	0.8617	0.9338	0.7985
87.0	0.3706	0.3357	0.4137	0.3930	0.4253	0.3875	0.4411	0.3286
90.0	0.1125	0.0774	0.1271	0.0741	0.0788	0.0829	0.1245	0.0782

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
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: