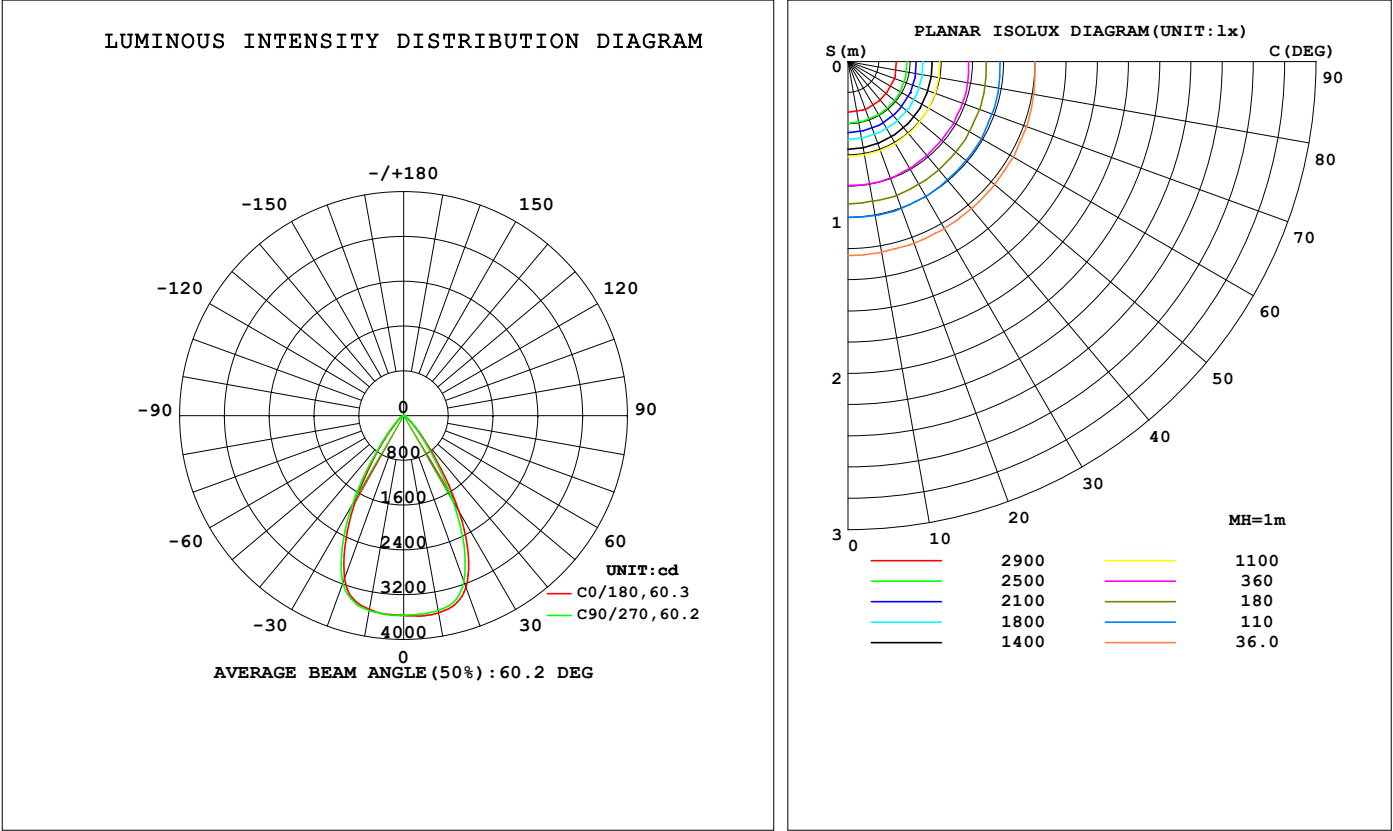


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.3V I:0.1227A P:29.1W PF:0.9882 Freq:49.99Hz		
UTHDi:0.19% ITHDi:38.35% KDisp:0.9905 Lamp Flux:3465.12x1 lm		
NAME: TR11-35-XX-01+白色防眩环 4000K RA90 60D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 118.91 lm/W
MODEL		Imax (cd)	3594	S/MH(C0/180)	0.87	
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	0.89	
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	3465.1	η UP,DN(C0-180)	0.0,50.5	
NOMINAL FLUX(lm)	3465.12	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.5	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	240.28	η down (%)	100.0	CIBSE SHR MAX	0.90	



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-12

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	3577	3563	3531	3517	3514	3507	3535	3569	0- 10	339.7	339.7	9.8,9.8
20	3260	3240	3149	3095	3092	3107	3181	3244	10- 20	964.3	1304	37.6,37.6
30	1985	1911	1765	1682	1671	1720	1839	1936	20- 30	1161	2465	71.1,71.1
40	603.8	579.1	517.1	476.5	465.6	484.3	538.9	583.7	30- 40	666.8	3132	90.4,90.4
50	164.1	156.9	139.3	132.6	131.0	130.6	142.2	156.6	40- 50	222.1	3354	96.8,96.8
60	49.76	46.20	40.08	40.20	40.81	41.19	42.60	47.83	50- 60	77.86	3432	99,99
70	16.05	15.35	13.12	11.89	12.11	13.42	15.25	15.80	60- 70	25.84	3458	99.8,99.8
80	3.119	2.896	2.626	2.462	2.546	2.701	3.066	3.214	70- 80	6.320	3464	100,100
90	0.0955	0.0718	0.1026	0.0802	0.0837	0.0761	0.0897	0.0715	80- 90	1.098	3465	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): 3273.9 lm

%lum = 94.5%

%lamp = 94.5%

Conical surface Flux(120deg): 3431.9 lm

%lum = 99.0%

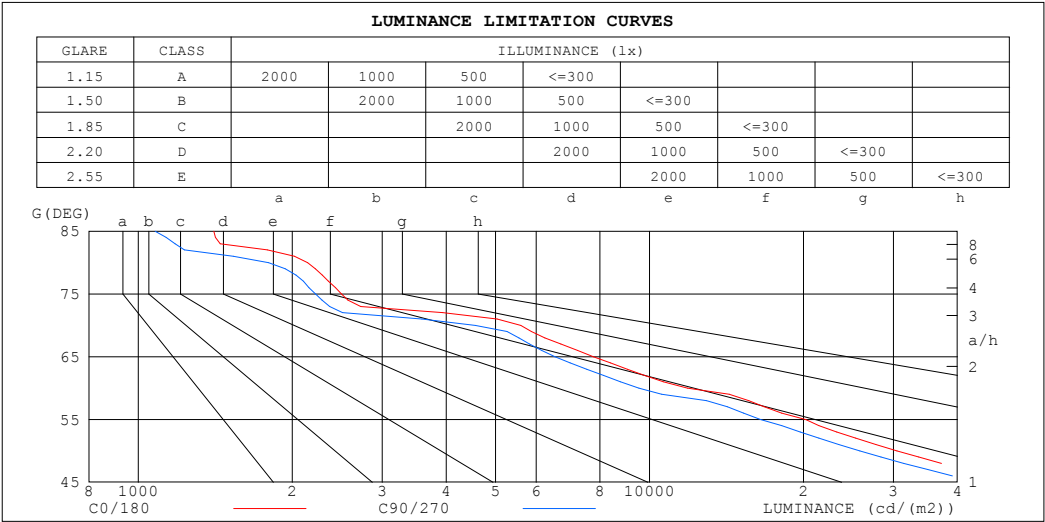
%lamp = 99.0%

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-12

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:0.1227A P:29.1W PF:0.9882 Freq:49.99Hz		
UTHDi:0.19% ITHDi:38.35% KDisp:0.9905Lamp Flux:3465.12x1 lm		
NAME: TR11-35-XX-01+白色防眩环 4000K RA90 60D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1405	1079
80	2143	1799
75	2498	2224
70	5599	4562
65	7774	6538
60	11874	9536
55	20201	16488
50	30466	25777
45	52013	44100

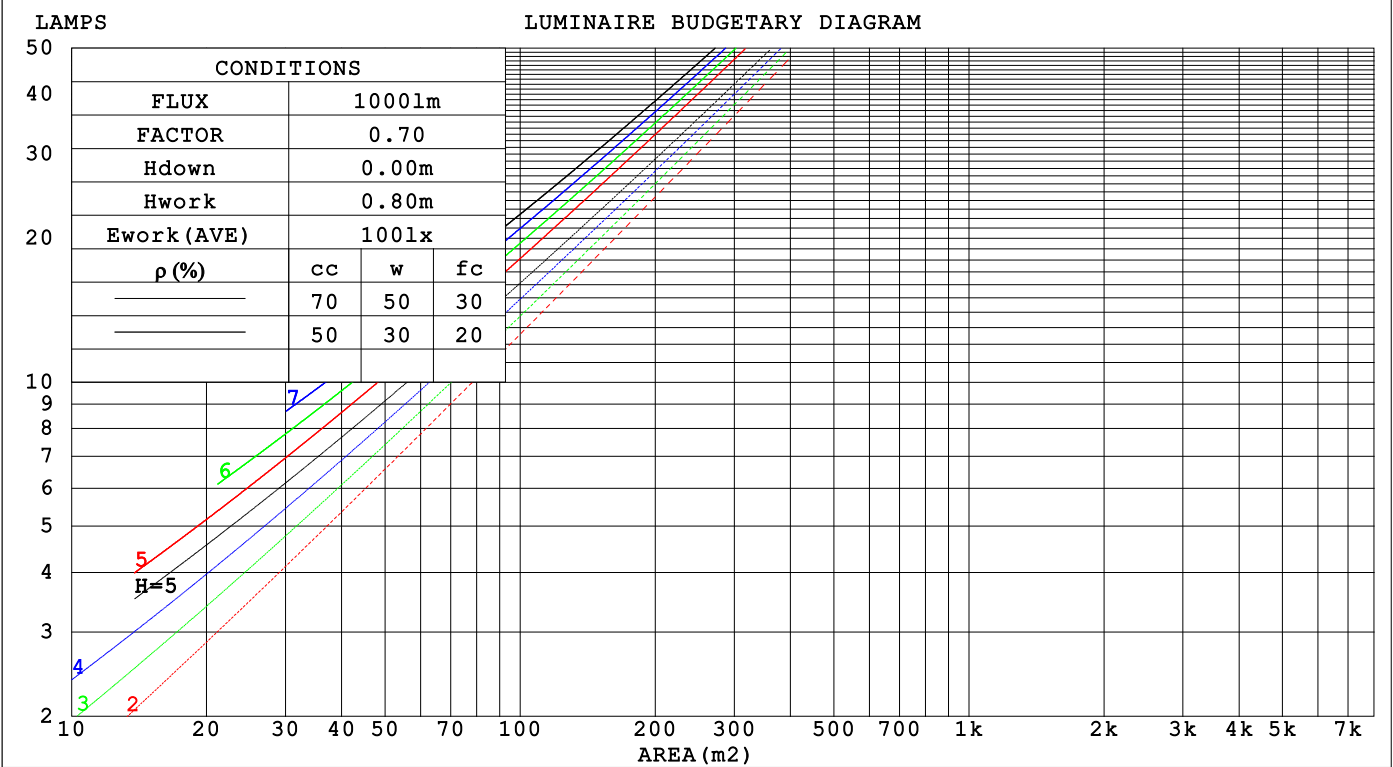
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-12

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:0.1227A P:29.1W PF:0.9882 Freq:49.99Hz			UTHDi:0.19% ITHDi:38.35% KDisp:0.9905			Lamp Flux:3465.12x1 lm		
NAME: TR11-35-XX-01+白色防眩环 4000K RA90 60D 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: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-12

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:0.1227A P:29.1W PF:0.9882 Freq:49.99Hz			UTHDi:0.19% ITHDi:38.35% KDisp:0.9905			Lamp Flux:3465.12x1 lm		
NAME: TR11-35-XX-01+白色防眩环 4000K RA90 60D 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	.181	.103	.033	.175	.100	.032	.162	.093	.030	.150	.087	.028	.140	.081	.026															
2.0	.174	.095	.029	.168	.093	.029	.158	.088	.027	.148	.083	.026	.139	.079	.025															
3.0	.166	.088	.026	.161	.086	.026	.152	.082	.025	.144	.079	.024	.136	.075	.023															
4.0	.158	.082	.024	.154	.081	.024	.146	.078	.023	.139	.075	.022	.132	.072	.022															
5.0	.151	.077	.022	.147	.076	.022	.140	.073	.022	.134	.071	.021	.128	.068	.021															
6.0	.144	.072	.021	.141	.071	.020	.135	.069	.020	.129	.067	.020	.124	.065	.019															
7.0	.137	.068	.019	.135	.067	.019	.129	.065	.019	.124	.064	.019	.119	.062	.018															
8.0	.131	.064	.018	.129	.063	.018	.124	.062	.018	.120	.061	.017	.115	.059	.017															
9.0	.126	.061	.017	.124	.060	.017	.119	.059	.017	.115	.058	.017	.111	.057	.016															
10.0	.121	.058	.016	.119	.057	.016	.115	.056	.016	.111	.055	.016	.108	.054	.016															

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	.171	.157	.145	.147	.135	.124	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.157	.132	.112	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.134	.099	.072	.115	.086	.062	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.126	.087	.059	.108	.076	.051	.074	.053	.036	.043	.031	.022	.014	.010	.007	
6.0	.119	.078	.049	.102	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.112	.071	.042	.097	.061	.036	.067	.043	.026	.039	.025	.015	.013	.008	.005	
8.0	.107	.065	.036	.092	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.102	.059	.031	.087	.052	.027	.061	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.097	.055	.027	.084	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-12

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:0.1227A P:29.1W PF:0.9882 Freq:49.99Hz										
UTHDi:0.19% ITHDi:38.35% KDisp:0.9905					Lamp Flux:3465.12x1 lm					
NAME: TR11-35-XX-01+白色防眩环 4000K RA90 60D 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	22.2	23.2	22.4	23.3	23.5	21.6	22.5	21.8	22.7	22.9
3H	22.1	23.0	22.3	23.2	23.4	21.4	22.3	21.7	22.5	22.7
4H	22.0	22.8	22.3	23.1	23.3	21.4	22.2	21.6	22.4	22.6
6H	21.9	22.7	22.2	22.9	23.2	21.3	22.1	21.6	22.3	22.6
8H	21.9	22.6	22.2	22.9	23.1	21.2	22.0	21.5	22.2	22.5
12H	21.8	22.5	22.1	22.8	23.1	21.2	21.9	21.5	22.2	22.5
4H 2H	22.0	22.8	22.3	23.1	23.3	21.4	22.2	21.7	22.4	22.7
3H	21.9	22.6	22.2	22.9	23.2	21.3	22.0	21.6	22.3	22.5
4H	21.8	22.5	22.1	22.8	23.1	21.2	21.8	21.5	22.1	22.4
6H	21.7	22.3	22.1	22.6	23.0	21.1	21.7	21.5	22.0	22.3
8H	21.7	22.2	22.1	22.5	22.9	21.0	21.6	21.4	21.9	22.3
12H	21.6	22.1	22.0	22.5	22.9	21.0	21.5	21.4	21.9	22.2
8H 4H	21.7	22.2	22.1	22.5	22.9	21.0	21.6	21.4	21.9	22.3
6H	21.6	22.0	22.0	22.4	22.8	21.0	21.4	21.4	21.8	22.2
8H	21.5	21.9	22.0	22.3	22.8	20.9	21.3	21.3	21.7	22.1
12H	21.5	21.8	21.9	22.2	22.7	20.9	21.2	21.3	21.6	22.1
12H 4H	21.6	22.1	22.0	22.5	22.9	21.0	21.5	21.4	21.9	22.2
6H	21.5	21.9	22.0	22.3	22.8	20.9	21.3	21.3	21.7	22.1
8H	21.5	21.8	21.9	22.2	22.7	20.8	21.2	21.3	21.6	22.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.0 / - 6.3					+ 2.6 / - 6.4				
1.5H	+ 4.6 / - 4.7					+ 4.2 / - 4.5				
2.0H	+ 4.8 / - 5.1					+ 4.3 / - 4.8				

CIE Pub.117, 3465 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.3$)
Area: 0.0084 m²

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-12

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:0.1227A P:29.1W PF:0.9882 Freq:49.99Hz		
UTHDi:0.19% ITHDi:38.35% KDisp:0.9905 Lamp Flux:3465.12x1 lm		
NAME: TR11-35-XX-01+白色防眩环 4000K RA90 60D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

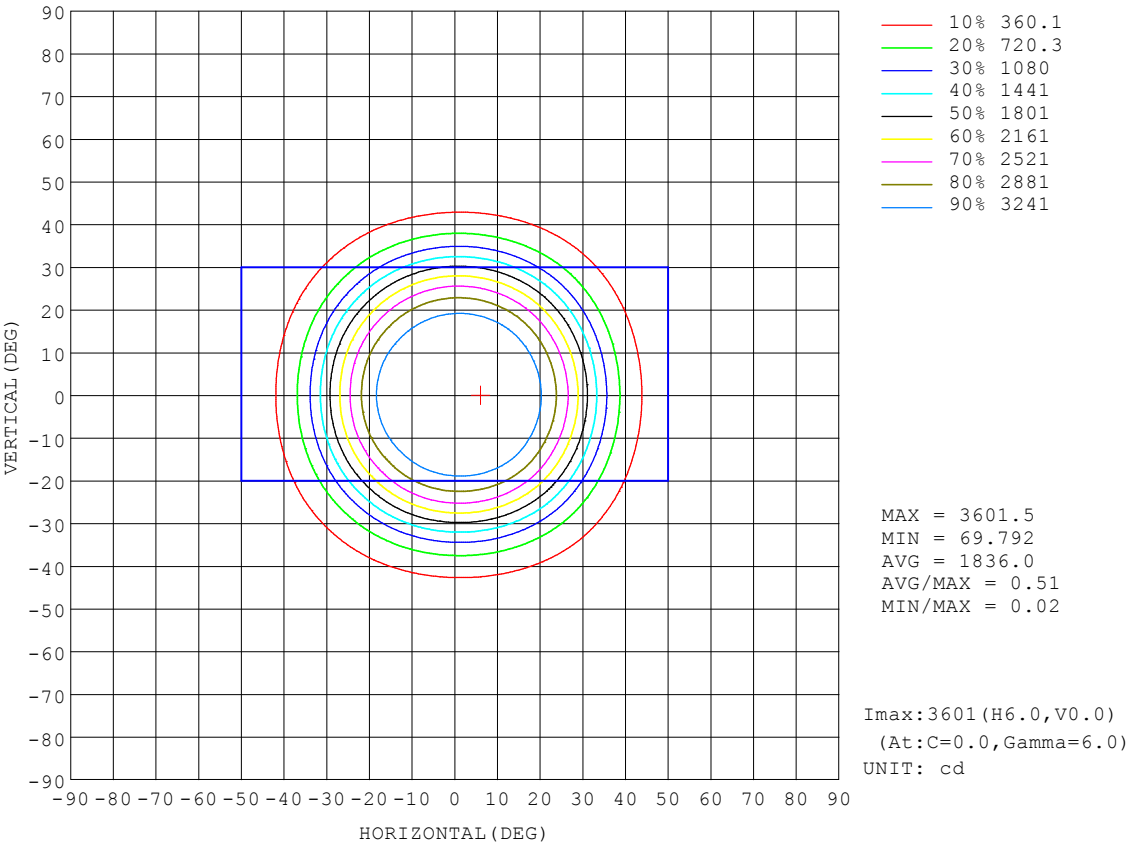
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	85	79	75	85	79	75	84	78	75	71
0.80	93	87	83	93	87	83	91	86	83	79
1.00	98	92	88	97	92	88	96	92	88	84
1.25	102	97	93	101	96	93	99	95	92	88
1.50	105	100	97	104	99	96	102	98	95	91
2.00	108	104	100	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	106	104	106	104	102	95
4.00	114	111	108	111	109	107	108	106	104	97
5.00	115	112	110	113	111	109	109	107	106	98
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: 2024-09-12

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

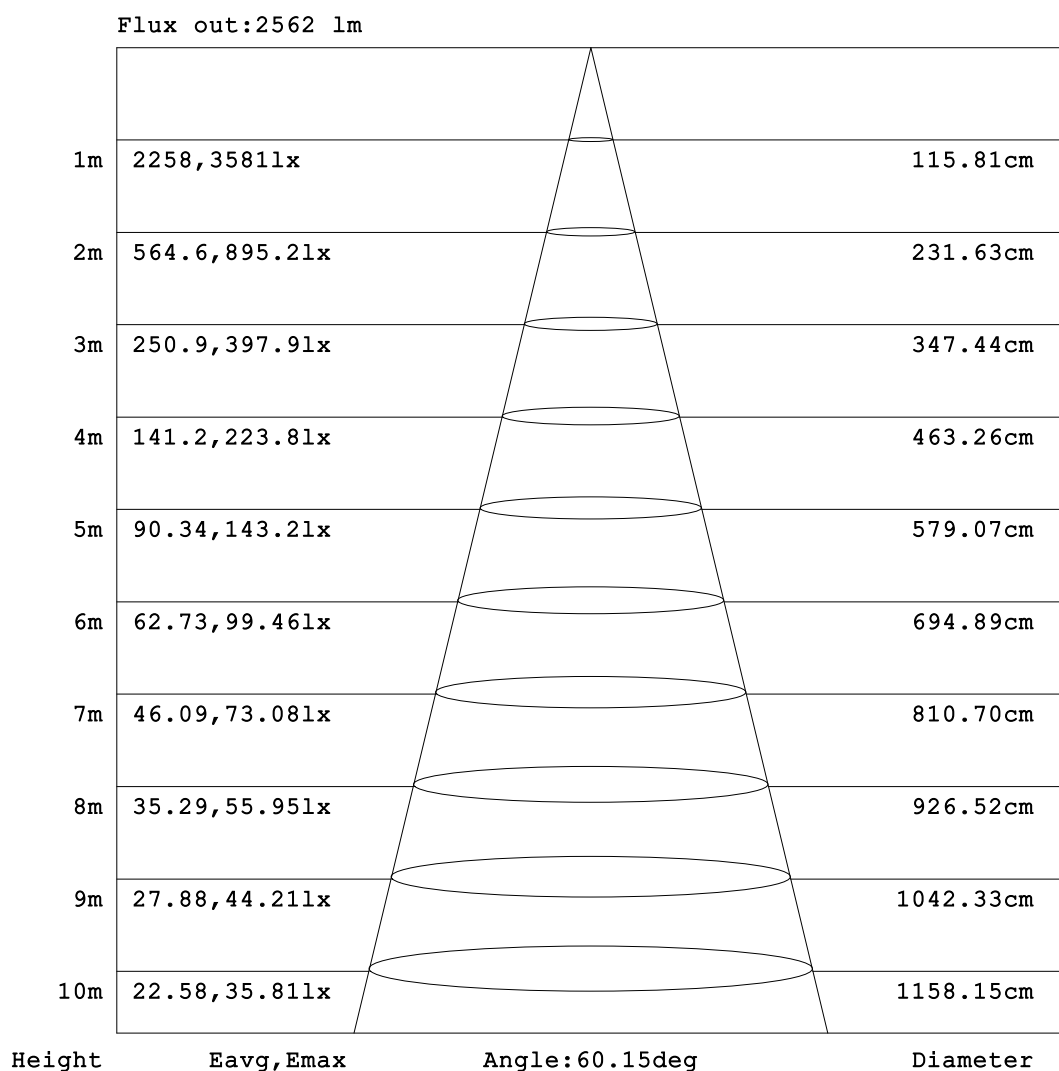
Test:U:240.3V I:0.1227A P:29.1W PF:0.9882 Freq:49.99Hz		
UTHDi:0.19% ITHDi:38.35% KDisp:0.9905 Lamp Flux:3465.12x1 lm		
NAME: TR11-35-XX-01+白色防眩环 4000K RA90 60D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:



C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 45.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	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:2024-09-12	Remarks:

AAI Figure

Test:U:240.3V I:0.1227A P:29.1W PF:0.9882 Freq:49.99Hz		
UTHDi:0.19% ITHDi:38.35% KDisp:0.9905 Lamp Flux:3465.12x1 lm		
NAME: TR11-35-XX-01+白色防眩环 4000K RA90 60D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:



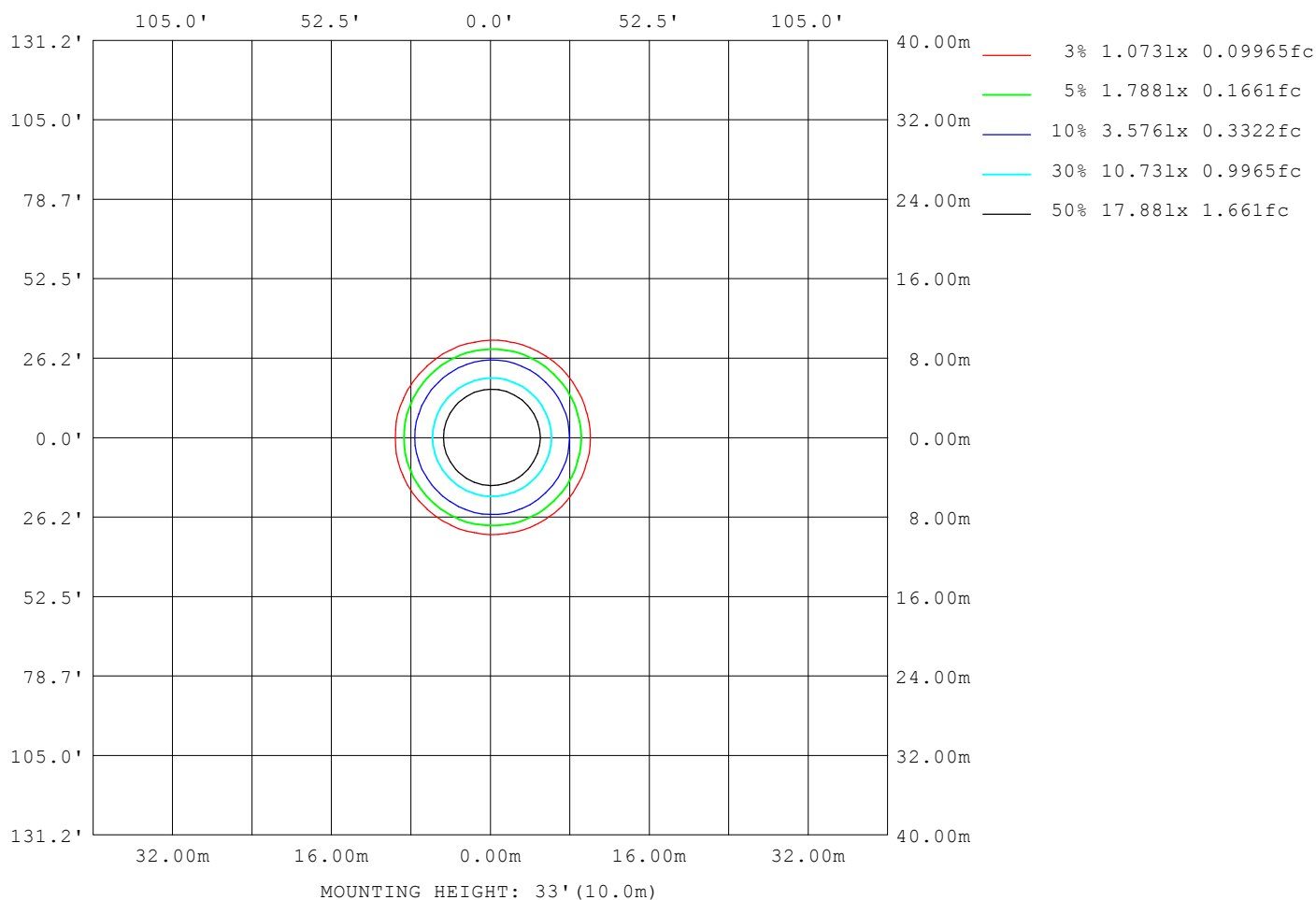
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-12

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:0.1227A P:29.1W PF:0.9882 Freq:49.99Hz		
UTHDi:0.19% ITHDi:38.35% KDisp:0.9905 Lamp Flux:3465.12x1 lm		
NAME: TR11-35-XX-01+白色防眩环 4000K RA90 60D 30W	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:2024-09-12

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:0.1227A P:29.1W PF:0.9882 Freq:49.99Hz UTHDi:0.19% ITHDi:38.35% KDisp:0.9905 Lamp Flux:3465.12x1 lm		
NAME: TR11-35-XX-01+白色防眩环 4000K RA90 60D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

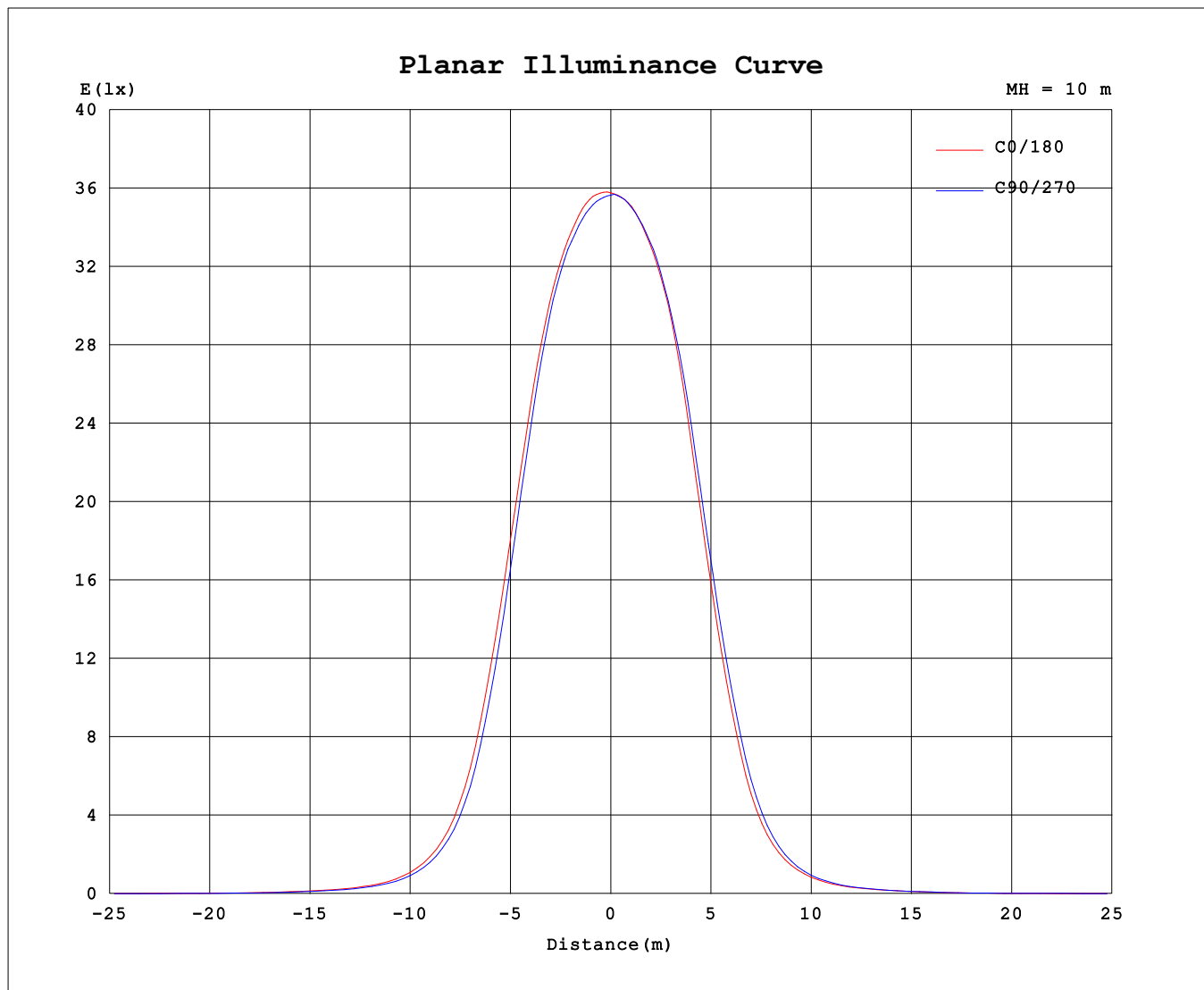
AvgL	cd/m2
L_0~180 (65) av	7160
L_0~180 (75) av	2384
L_0~180 (85) av	1189
L_90~270 (65) av	6747
L_90~270 (75) av	2352
L_90~270 (85) av	1177
L_45 (65) av	7031
L_45 (75) av	2363
L_45 (85) av	1150

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-12

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: 2024-09-12

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	3568	3568	3568	3568	3568	3568	3568	3568
3.0	3581	3574	3561	3556	3561	3566	3571	3575
6.0	3594	3580	3557	3550	3557	3550	3562	3583
9.0	3585	3572	3541	3529	3525	3520	3543	3574
12.0	3556	3549	3516	3494	3484	3482	3515	3554
15.0	3503	3499	3450	3422	3413	3406	3442	3497
18.0	3386	3375	3302	3266	3261	3265	3314	3375
21.0	3179	3147	3050	2988	2981	3006	3091	3158
24.0	2857	2811	2696	2606	2586	2627	2736	2815
27.0	2457	2389	2250	2159	2142	2196	2312	2402
30.0	1985	1911	1765	1682	1671	1720	1839	1936
33.0	1484	1424	1287	1207	1204	1249	1359	1446
36.0	1026	979.7	885.1	815.1	809.2	852.6	932.8	998.4
39.0	689.5	660.2	591.5	545.4	534.7	558.2	619.9	669.0
42.0	461.5	442.4	394.0	363.4	354.7	365.6	407.2	444.3
45.0	308.3	295.1	262.2	242.7	237.8	240.9	268.3	295.7
48.0	209.0	199.4	176.8	167.2	164.1	164.2	180.9	199.8
51.0	146.1	139.9	124.1	118.9	117.5	117.2	126.8	139.1
54.0	105.6	101.2	89.66	86.91	86.85	87.33	91.98	100.7
57.0	76.52	72.99	65.03	64.28	64.35	64.61	66.83	73.58
60.0	49.76	46.20	40.08	40.20	40.81	41.19	42.60	47.83
63.0	34.44	32.81	28.76	28.67	29.19	29.59	30.45	33.26
66.0	24.63	23.52	21.03	20.77	20.83	21.33	22.28	23.85
69.0	17.65	17.08	15.86	15.27	15.32	15.81	16.95	17.35
72.0	10.21	7.857	6.517	6.338	6.500	6.731	7.913	10.11
75.0	5.419	5.166	4.838	4.785	4.948	5.081	5.390	5.518
78.0	3.990	3.769	3.557	3.445	3.581	3.731	4.032	4.098
81.0	2.650	2.411	2.018	1.760	1.784	2.044	2.523	2.738
84.0	1.240	1.107	0.9961	0.9081	0.9228	0.9854	1.147	1.213
87.0	0.6181	0.4999	0.4071	0.3192	0.3264	0.3892	0.5280	0.5861
90.0	0.0955	0.0718	0.1026	0.0802	0.0837	0.0761	0.0897	0.0715

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-09-12

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: