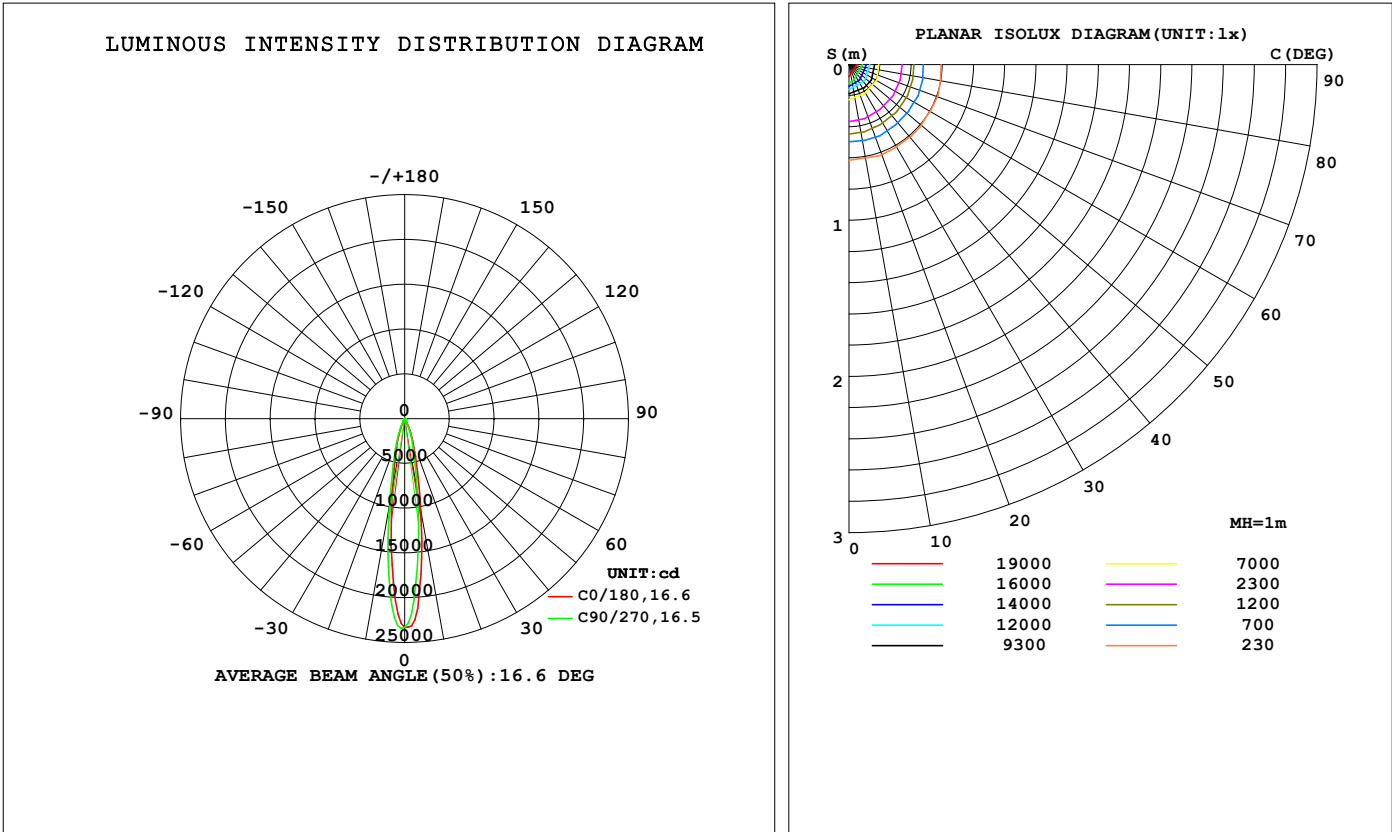


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.3V I:0.1434A P:34.1W PF:0.9908 Freq:49.99Hz		
UTHDi:0.21% ITHDi:51.31% KDisp:0.9919 Lamp Flux:3413.47x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K RA90 15D 35W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 99.99 lm/W
MODEL		Imax (cd)	23416	S/MH(C0/180)	0.26	
NOMINAL POWER(W)	35	LOR(%)	100.0	S/MH(C90/270)	0.31	
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	3413.5	η UP,DN(C0-180)	0.0,50.0	
NOMINAL FLUX(lm)	3413.47	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.0	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	240.33	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	1042	944.6	822.5	759.8	769.3	872.3	979.4	1042	0- 10	1404	1404	41.1,41.1
20	264.1	241.7	221.2	195.4	195.9	205.8	232.4	257.6	10- 20	1270	2674	78.3,78.3
30	46.17	42.68	37.43	32.26	32.20	33.14	36.62	40.80	20- 30	478.4	3153	92.4,92.4
40	13.42	12.89	11.86	10.90	11.12	11.26	11.82	12.35	30- 40	130.5	3283	96.2,96.2
50	6.781	6.577	5.860	5.298	5.693	5.905	5.975	6.016	40- 50	64.67	3348	98.1,98.1
60	3.785	3.726	3.122	2.706	2.957	3.190	3.325	3.315	50- 60	40.98	3389	99.3,99.3
70	1.165	1.030	0.7507	0.6692	0.6749	0.7399	0.9670	1.074	60- 70	20.03	3409	99.9,99.9
80	0.1721	0.1583	0.1516	0.1339	0.1393	0.1454	0.1870	0.1672	70- 80	3.953	3413	100,100
90	0.0117	0.0064	0.0136	0.0077	0.0079	0.0076	0.0148	0.0066	80- 90	0.7214	3413	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): 3319.6 lm

%lum = 97.2%

%lamp = 97.2%

Conical surface Flux(120deg): 3388.8 lm

%lum = 99.3%

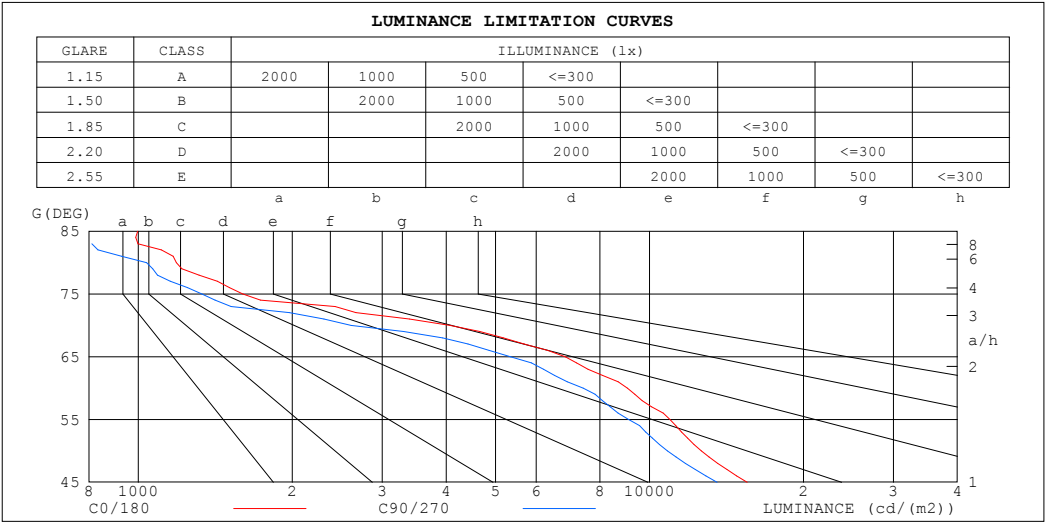
%lamp = 99.3%

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:0.1434A P:34.1W PF:0.9908 Freq:49.99Hz		
UTHDi:0.21% ITHDi:51.31% KDisp:0.9919 Lamp Flux:3413.47x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K RA90 15D 35W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	997	766
80	1186	1038
75	1601	1333
70	4074	2609
65	6842	5344
60	9057	7423
55	10961	9105
50	12621	10836
45	15527	13553

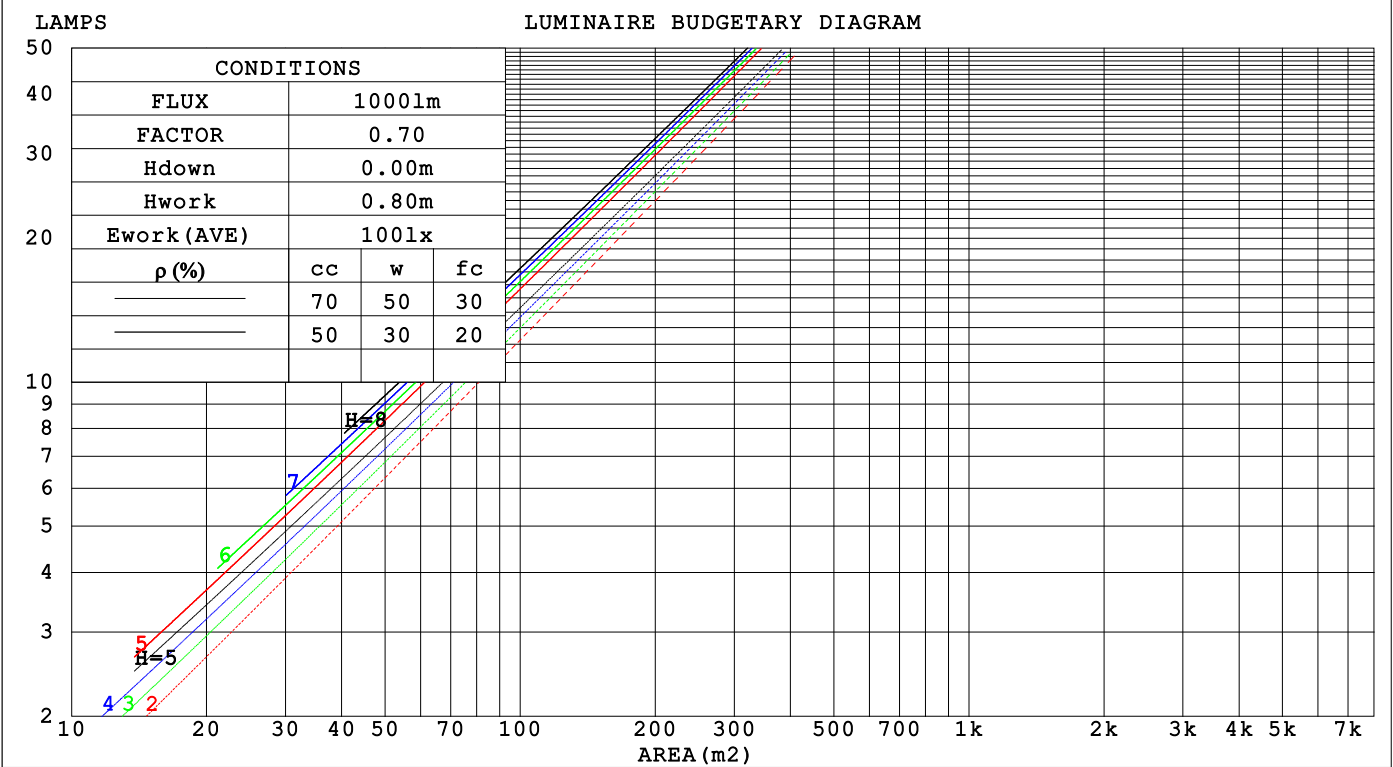
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-14

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:0.1434A P:34.1W PF:0.9908 Freq:49.99Hz		
UTHDi:0.21% ITHDi:51.31% KDisp:0.9919 Lamp Flux:3413.47x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K RA90 15D 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: 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:0.1434A P:34.1W PF:0.9908 Freq:49.99Hz			UTHDi:0.21% ITHDi:51.31% KDisp:0.9919			Lamp Flux:3413.47x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K RA90 15D 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	.138	.079	.025	.131	.075	.024	.119	.068	.022	.108	.062	.020	.097	.056	.018															
2.0	.128	.070	.022	.123	.068	.021	.113	.063	.019	.103	.058	.018	.094	.053	.017															
3.0	.119	.064	.019	.115	.062	.019	.106	.058	.018	.098	.054	.017	.091	.050	.016															
4.0	.112	.058	.017	.108	.056	.017	.101	.053	.016	.094	.050	.015	.088	.048	.015															
5.0	.105	.053	.015	.102	.052	.015	.096	.050	.015	.090	.047	.014	.085	.045	.014															
6.0	.099	.050	.014	.096	.049	.014	.091	.047	.014	.086	.045	.013	.081	.043	.013															
7.0	.094	.046	.013	.091	.045	.013	.087	.044	.013	.082	.042	.012	.078	.041	.012															
8.0	.089	.043	.012	.087	.043	.012	.083	.041	.012	.079	.040	.012	.076	.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	.011	.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	.106	.085	.068	.073	.059	.048	.042	.035	.029	.014	.011	.009	
5.0	.112	.086	.066	.097	.074	.057	.066	.052	.040	.039	.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	.034	.022	.029	.020	.013	.009	.006	.004	
10.0	.078	.050	.031	.067	.044	.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:0.1434A P:34.1W PF:0.9908 Freq:49.99Hz										
UTHDi:0.21% ITHDi:51.31% KDisp:0.9919					Lamp Flux:3413.47x1 lm					
NAME: TR11-35-XX-01+白色防眩环 2700K RA90 15D 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	13.8	14.4	14.0	14.6	14.7	13.1	13.8	13.3	13.9	14.1
3H	14.0	14.6	14.3	14.8	15.0	13.3	13.9	13.5	14.1	14.3
4H	14.0	14.6	14.3	14.8	15.0	13.2	13.8	13.5	14.0	14.2
6H	13.9	14.5	14.2	14.7	14.9	13.2	13.7	13.5	14.0	14.2
8H	13.9	14.4	14.2	14.7	14.9	13.1	13.7	13.4	13.9	14.2
12H	13.8	14.4	14.2	14.6	14.9	13.1	13.6	13.4	13.9	14.1
4H 2H	13.9	14.5	14.2	14.7	14.9	13.4	13.9	13.6	14.1	14.3
3H	14.2	14.7	14.5	15.0	15.2	13.6	14.1	13.9	14.3	14.6
4H	14.2	14.6	14.5	14.9	15.2	13.5	14.0	13.8	14.3	14.6
6H	14.1	14.5	14.5	14.8	15.2	13.4	13.8	13.8	14.2	14.5
8H	14.0	14.4	14.4	14.8	15.1	13.4	13.8	13.8	14.1	14.5
12H	14.0	14.4	14.4	14.7	15.1	13.3	13.7	13.7	14.0	14.4
8H 4H	14.0	14.4	14.4	14.8	15.1	13.4	13.8	13.8	14.1	14.5
6H	14.0	14.3	14.4	14.7	15.1	13.3	13.6	13.7	14.0	14.4
8H	13.9	14.2	14.4	14.6	15.1	13.2	13.5	13.7	13.9	14.4
12H	13.9	14.1	14.3	14.5	15.0	13.2	13.4	13.7	13.9	14.3
12H 4H	14.0	14.3	14.4	14.7	15.1	13.3	13.7	13.7	14.0	14.4
6H	13.9	14.2	14.3	14.6	15.0	13.2	13.5	13.7	13.9	14.4
8H	13.9	14.1	14.3	14.5	15.0	13.2	13.4	13.7	13.9	14.3
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.1 / - 1.4					+ 1.1 / - 1.7				
1.5H	+ 1.8 / - 0.9					+ 1.5 / - 1.1				
2.0H	+ 1.4 / - 1.4					+ 1.4 / - 1.6				

CIE Pub.117, 3413 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: 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:0.1434A P:34.1W PF:0.9908 Freq:49.99Hz		
UTHDi:0.21% ITHDi:51.31% KDisp:0.9919 Lamp Flux:3413.47x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K RA90 15D 35W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

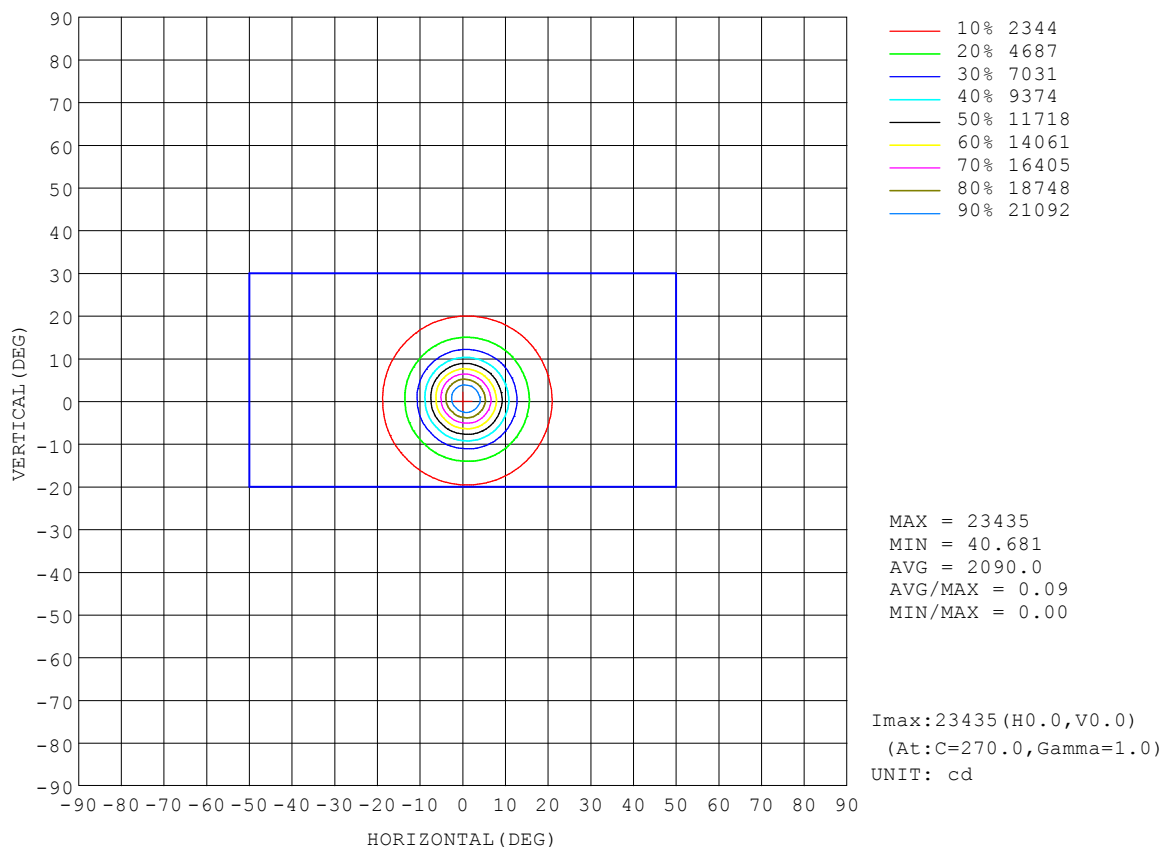
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	80	89	83	79	88	83	79	76
0.80	96	91	87	96	90	87	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	101	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:0.1434A P:34.1W PF:0.9908 Freq:49.99Hz		
UTHDi:0.21% ITHDi:51.31% KDisp:0.9919 Lamp Flux:3413.47x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K RA90 15D 35W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

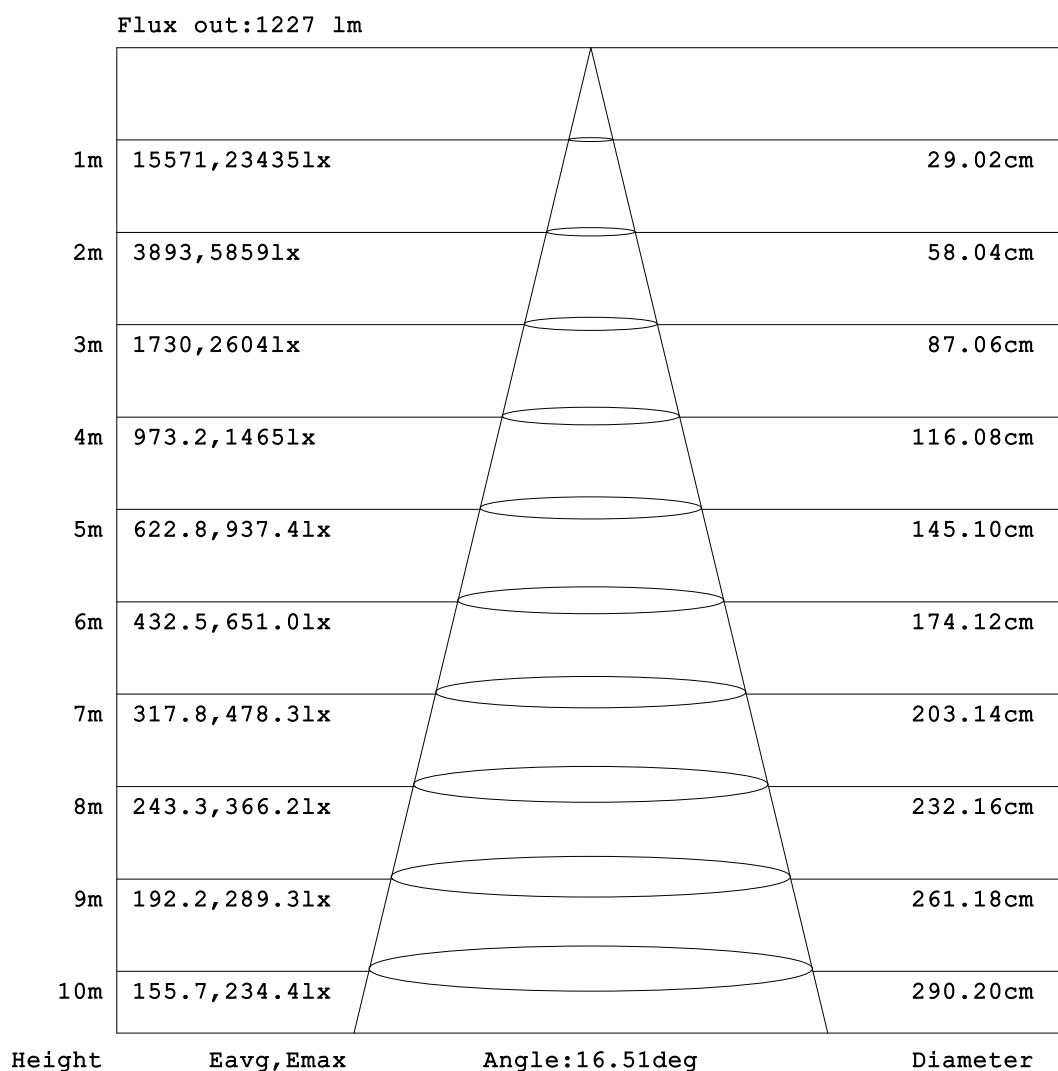


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-14

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:0.1434A P:34.1W PF:0.9908 Freq:49.99Hz		
UTHDi:0.21% ITHDi:51.31% KDisp:0.9919 Lamp Flux:3413.47x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K RA90 15D 35W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

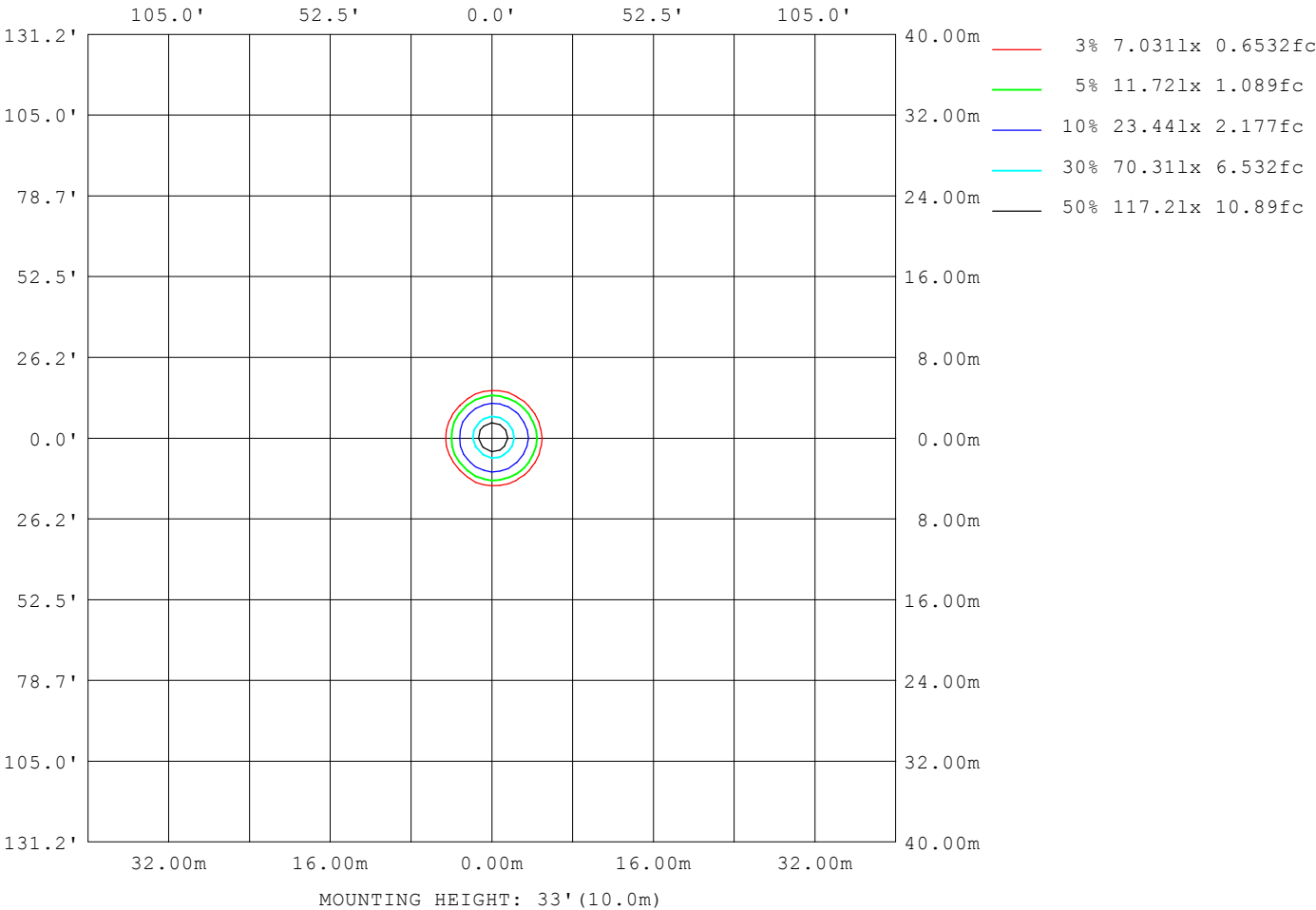


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-14

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:

ISOLUX DIAGRAM

Test:U:240.3V I:0.1434A P:34.1W PF:0.9908 Freq:49.99Hz		
UTHDi:0.21% ITHDi:51.31% KDisp:0.9919 Lamp Flux:3413.47x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K RA90 15D 35W	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:0.1434A P:34.1W PF:0.9908 Freq:49.99Hz UTHDi:0.21% ITHDi:51.31% KDisp:0.9919 Lamp Flux:3413.47x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K RA90 15D 35W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

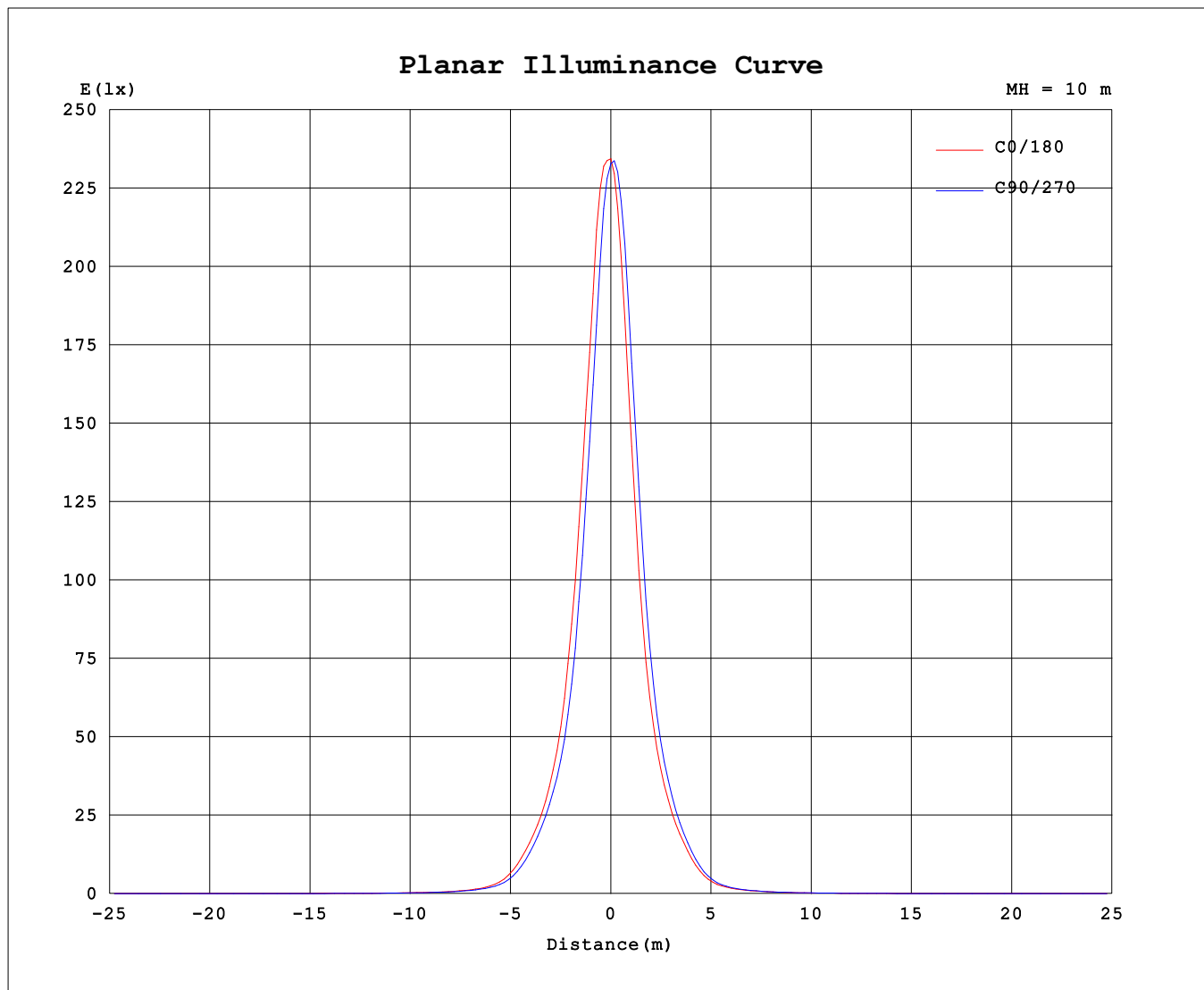
AvgL	cd/m2
L_0~180 (65) av	5873
L_0~180 (75) av	1433
L_0~180 (85) av	845
L_90~270 (65) av	5627
L_90~270 (75) av	1410
L_90~270 (85) av	915
L_45 (65) av	5668
L_45 (75) av	1390
L_45 (85) av	757

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	23318	23318	23318	23318	23318	23318	23318	23318
3.0	22479	21414	20298	19713	20297	21283	22222	22557
6.0	17465	16157	14690	14021	14423	15964	17219	17577
9.0	12076	10937	9679	8888	9003	10203	11492	12086
12.0	7805	7013	6111	5650	5721	6356	7171	7804
15.0	5045	4578	4135	3830	3822	4152	4672	5061
18.0	3418	3127	2884	2613	2575	2746	3106	3386
21.0	2321	2125	1917	1646	1668	1752	2005	2222
24.0	1496	1356	1154	949.5	945.0	989.5	1155	1336
27.0	838.2	760.3	640.7	529.1	517.3	541.2	627.9	727.4
30.0	461.7	426.8	374.3	322.6	322.0	331.4	366.2	408.0
33.0	290.2	272.5	249.8	222.0	221.5	226.4	243.8	262.9
36.0	200.4	190.6	176.3	158.3	159.9	162.9	173.4	183.4
39.0	147.0	141.0	130.0	119.1	121.0	122.7	129.2	135.3
42.0	113.7	109.3	100.2	92.27	95.05	96.71	100.3	104.1
45.0	91.76	88.04	80.62	73.39	76.91	78.47	80.56	83.21
48.0	75.98	73.25	66.10	59.82	63.73	65.67	66.74	67.97
51.0	64.29	62.41	55.37	50.04	54.03	56.25	56.75	56.79
54.0	55.27	53.94	47.31	42.69	46.30	49.19	48.98	48.35
57.0	45.89	44.76	38.36	33.88	37.23	39.75	40.18	39.89
60.0	37.85	37.26	31.22	27.06	29.57	31.90	33.25	33.15
63.0	28.76	28.53	23.70	20.96	22.75	24.63	24.97	24.85
66.0	21.50	20.68	16.61	14.25	15.35	17.02	18.22	18.61
69.0	13.94	12.89	9.959	8.836	8.961	9.947	11.80	12.47
72.0	6.880	6.308	5.133	4.177	4.240	5.093	6.123	6.546
75.0	3.463	3.188	2.902	2.731	2.769	2.829	3.228	3.343
78.0	2.283	2.028	1.907	1.780	1.809	1.849	2.346	2.251
81.0	1.530	1.371	1.221	1.038	1.105	1.201	1.604	1.474
84.0	0.8628	0.7319	0.6940	0.5738	0.6427	0.6654	0.8954	0.7867
87.0	0.4665	0.3370	0.3212	0.2053	0.2408	0.2822	0.5576	0.3954
90.0	0.1170	0.0644	0.1364	0.0769	0.0786	0.0760	0.1477	0.0659

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: