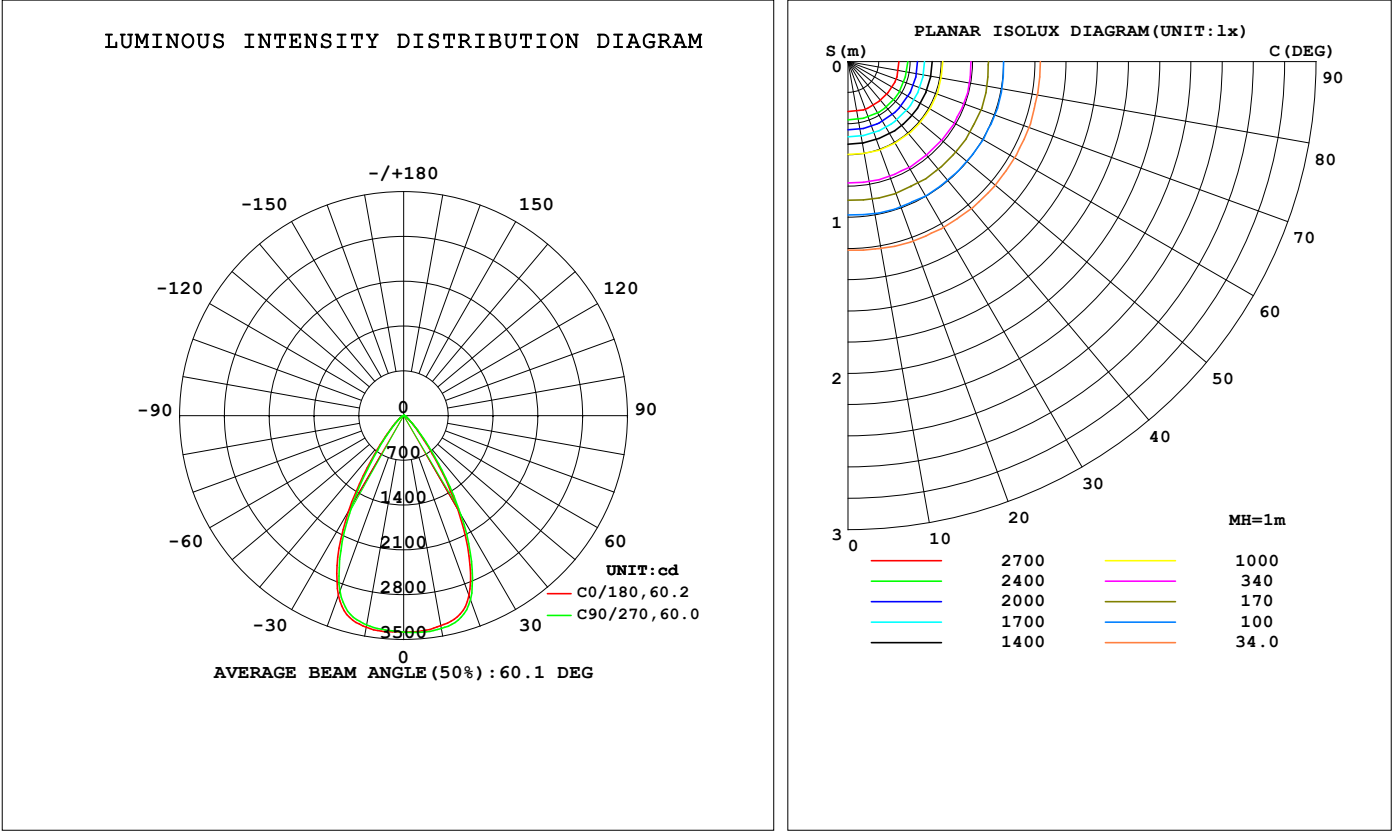


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.3V I:0.1234A P:29.3W PF:0.9883 Freq:49.99Hz		
UTHDi:0.19% ITHDi:49.86% KDisp:0.9904 Lamp Flux:3269.99x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K RA90 60D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 111.52 lm/W
MODEL		Imax (cd)	3400	S/MH(C0/180)	0.89	
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	0.87	
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	3270.0	η UP,DN(C0-180)	0.0,51.2	
NOMINAL FLUX(lm)	3269.99	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,48.8	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	240.27	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:2024-09-14

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	3335	3353	3377	3373	3358	3322	3321	3329	0- 10	321.6	321.6	9.84,9.84
20	2989	3042	3059	3032	2987	2926	2915	2953	10- 20	909.8	1231	37.7,37.7
30	1691	1768	1796	1798	1726	1638	1601	1622	20- 30	1092	2324	71.1,71.1
40	497.1	539.1	544.7	541.5	511.7	474.3	452.0	457.7	30- 40	627.8	2951	90.3,90.3
50	136.2	149.0	149.2	146.9	141.4	132.8	126.3	125.6	40- 50	211.2	3163	96.7,96.7
60	43.12	45.54	44.30	42.62	43.07	41.26	39.57	39.50	50- 60	75.20	3238	99,99
70	13.41	13.98	14.37	14.56	14.12	13.11	13.00	12.98	60- 70	25.03	3263	99.8,99.8
80	2.655	2.739	2.870	2.847	2.842	2.747	2.689	2.663	70- 80	6.047	3269	100,100
90	0.0843	0.0677	0.0905	0.0715	0.0753	0.0761	0.0846	0.0731	80- 90	1.065	3270	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): 3086.1 lm

%lum = 94.4%

%lamp = 94.4%

Conical surface Flux(120deg): 3237.9 lm

%lum = 99.0%

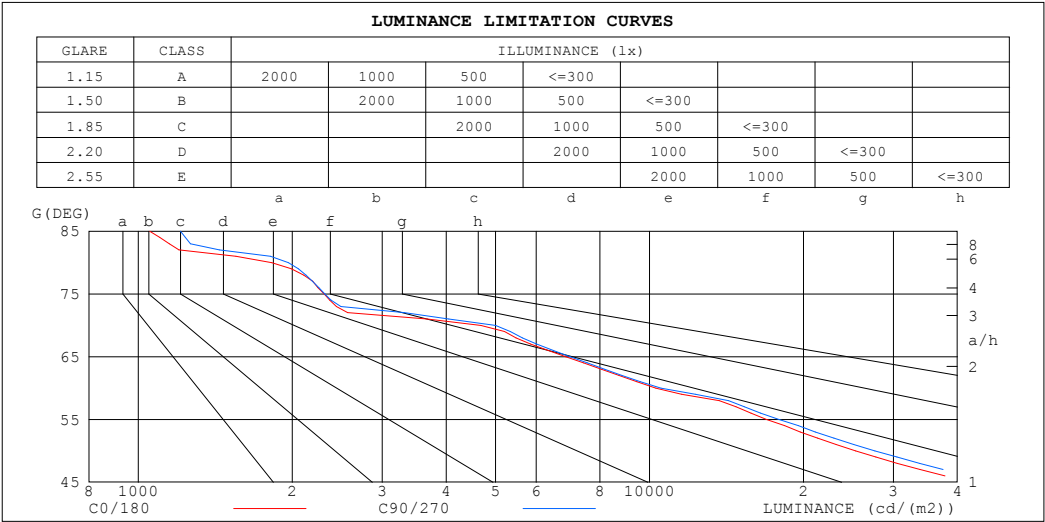
%lamp = 99.0%

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

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:0.1234A P:29.3W PF:0.9883 Freq:49.99Hz		
UTHDi:0.19% ITHDi:49.86% KDisp:0.9904 Lamp Flux:3269.99x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K 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	1053	1209
80	1824	1966
75	2309	2318
70	4679	4996
65	6859	6988
60	10290	10537
55	16960	17933
50	25293	27603
45	42412	46993

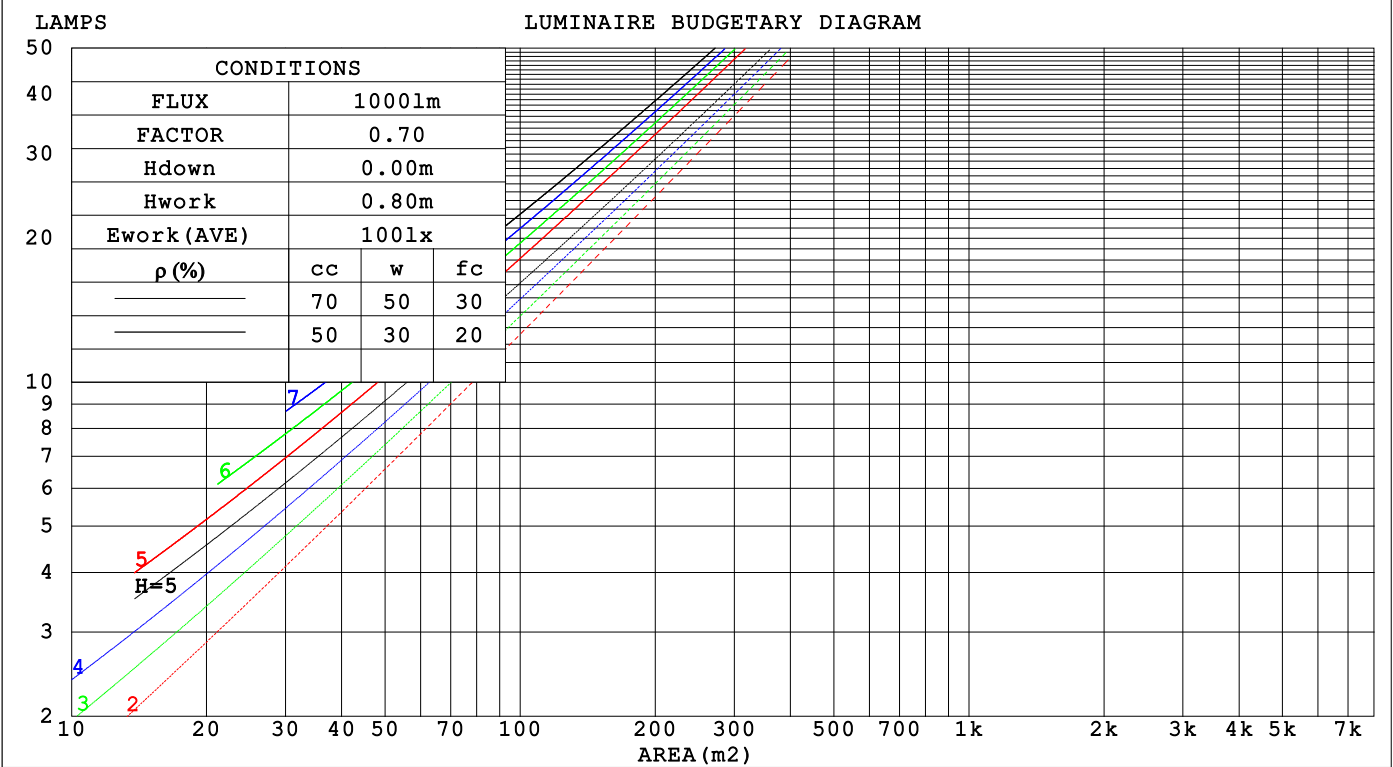
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-14

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:0.1234A P:29.3W PF:0.9883 Freq:49.99Hz			UTHDi:0.19% ITHDi:49.86% KDisp:0.9904			Lamp Flux:3269.99x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K 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:2024-09-14

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:0.1234A P:29.3W PF:0.9883 Freq:49.99Hz			UTHDi:0.19% ITHDi:49.86% KDisp:0.9904			Lamp Flux:3269.99x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K 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	.096	.029	.169	.093	.029	.158	.088	.027	.148	.083	.026	.139	.079	.025															
3.0	.166	.088	.026	.161	.086	.026	.152	.083	.025	.144	.079	.024	.136	.075	.023															
4.0	.158	.082	.024	.154	.081	.024	.146	.078	.023	.139	.075	.023	.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	.138	.068	.019	.135	.067	.019	.129	.065	.019	.124	.064	.019	.120	.062	.018															
8.0	.132	.064	.018	.129	.064	.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	.075	.053	.036	.043	.031	.021	.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	.064	.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:2024-09-14

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:0.1234A P:29.3W PF:0.9883 Freq:49.99Hz										
UTHDi:0.19% ITHDi:49.86% KDisp:0.9904					Lamp Flux:3269.99x1 lm					
NAME: TR11-35-XX-01+白色防眩环 2700K 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	21.4	22.4	21.7	22.6	22.8	21.7	22.7	22.0	22.9	23.1
3H	21.3	22.2	21.6	22.4	22.6	21.6	22.5	21.9	22.7	22.9
4H	21.2	22.1	21.5	22.3	22.5	21.5	22.4	21.8	22.6	22.8
6H	21.2	22.0	21.5	22.2	22.4	21.5	22.2	21.8	22.5	22.7
8H	21.1	21.9	21.4	22.1	22.4	21.4	22.2	21.7	22.4	22.7
12H	21.1	21.8	21.4	22.1	22.3	21.4	22.1	21.7	22.4	22.6
4H 2H	21.3	22.1	21.5	22.3	22.5	21.5	22.4	21.8	22.6	22.8
3H	21.1	21.9	21.5	22.1	22.4	21.4	22.2	21.8	22.4	22.7
4H	21.1	21.7	21.4	22.0	22.3	21.4	22.0	21.7	22.3	22.6
6H	21.0	21.6	21.4	21.9	22.2	21.3	21.8	21.6	22.2	22.5
8H	20.9	21.5	21.3	21.8	22.2	21.2	21.8	21.6	22.1	22.5
12H	20.9	21.4	21.3	21.7	22.1	21.2	21.7	21.6	22.0	22.4
8H 4H	20.9	21.5	21.3	21.8	22.2	21.2	21.7	21.6	22.1	22.5
6H	20.8	21.3	21.3	21.7	22.1	21.1	21.6	21.6	22.0	22.4
8H	20.8	21.2	21.2	21.6	22.0	21.1	21.5	21.5	21.9	22.3
12H	20.7	21.1	21.2	21.5	22.0	21.0	21.4	21.5	21.8	22.3
12H 4H	20.9	21.4	21.3	21.7	22.1	21.2	21.7	21.6	22.0	22.4
6H	20.8	21.2	21.2	21.6	22.0	21.1	21.5	21.5	21.9	22.3
8H	20.7	21.1	21.2	21.5	22.0	21.0	21.4	21.5	21.8	22.3
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.6 / - 6.0					+ 2.8 / - 6.2				
1.5H	+ 4.3 / - 4.2					+ 4.5 / - 4.5				
2.0H	+ 4.2 / - 4.6					+ 4.6 / - 4.9				

CIE Pub.117, 3270 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.1$)
Area: 0.0084 m²

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
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:0.1234A P:29.3W PF:0.9883 Freq:49.99Hz		
UTHDi:0.19% ITHDi:49.86% KDisp:0.9904 Lamp Flux:3269.99x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K RA90 60D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

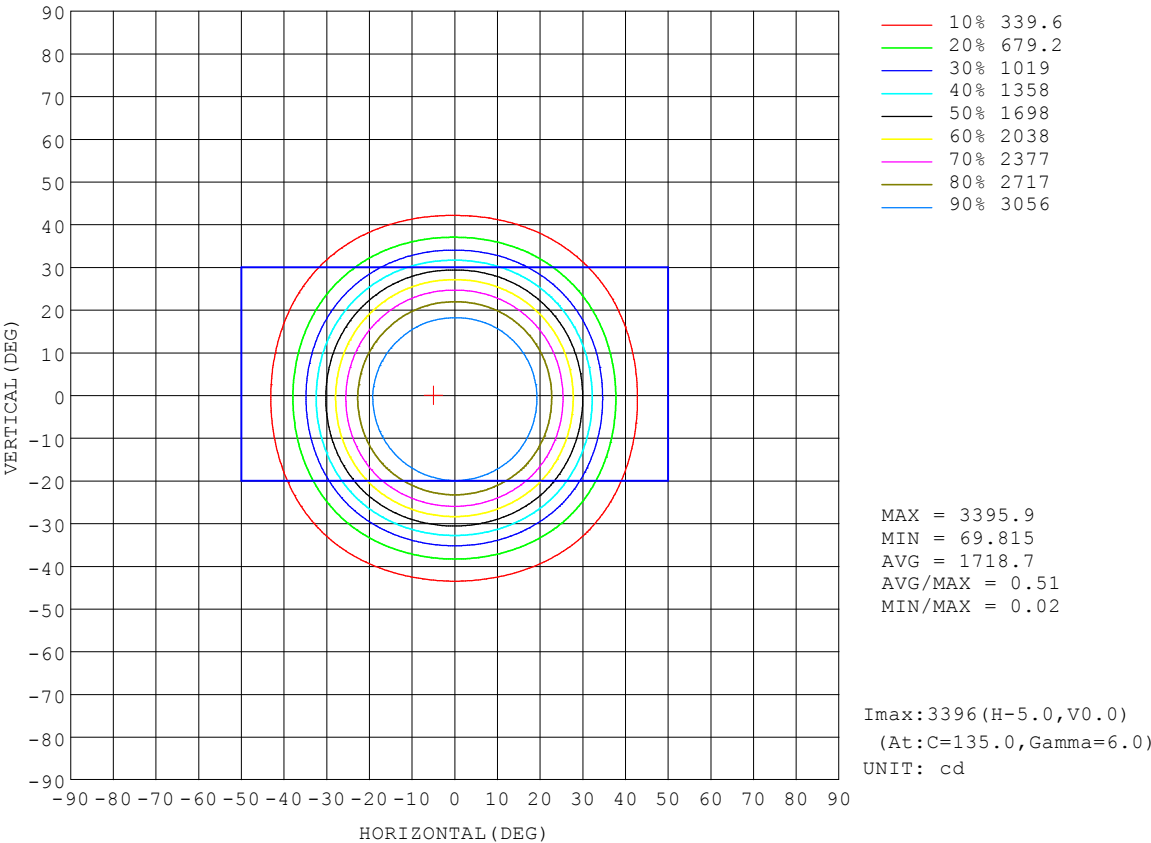
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	85	79	75	85	78	75	84	78	74	71
0.80	93	87	83	92	87	83	91	86	82	79
1.00	98	92	88	97	92	88	96	92	88	83
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	113	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: 2024-09-14

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

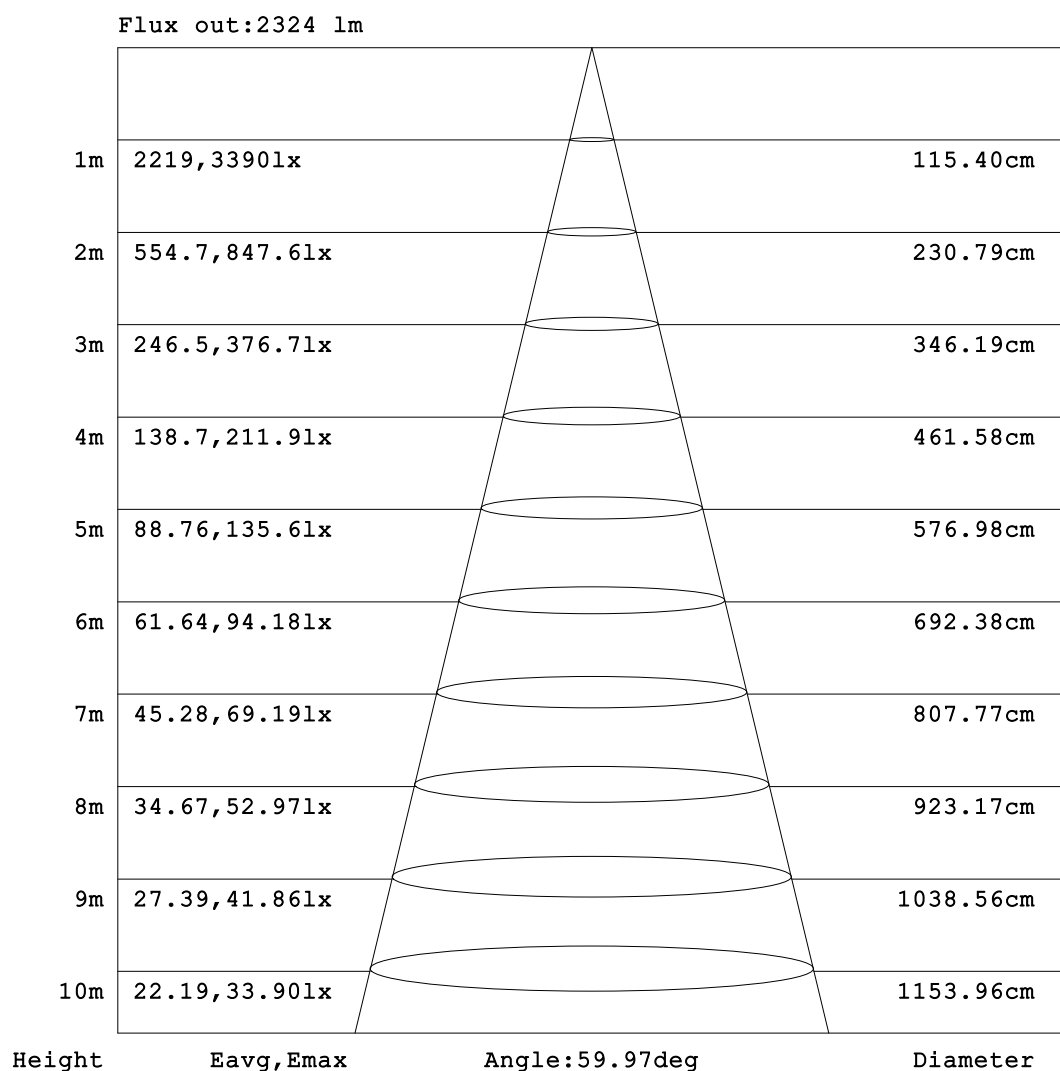
Test:U:240.3V I:0.1234A P:29.3W PF:0.9883 Freq:49.99Hz		
UTHDi:0.19% ITHDi:49.86% KDisp:0.9904 Lamp Flux:3269.99x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K RA90 60D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:



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:2024-09-14	Remarks:

AAI Figure

Test:U:240.3V I:0.1234A P:29.3W PF:0.9883 Freq:49.99Hz		
UTHDi:0.19% ITHDi:49.86% KDisp:0.9904 Lamp Flux:3269.99x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K RA90 60D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:



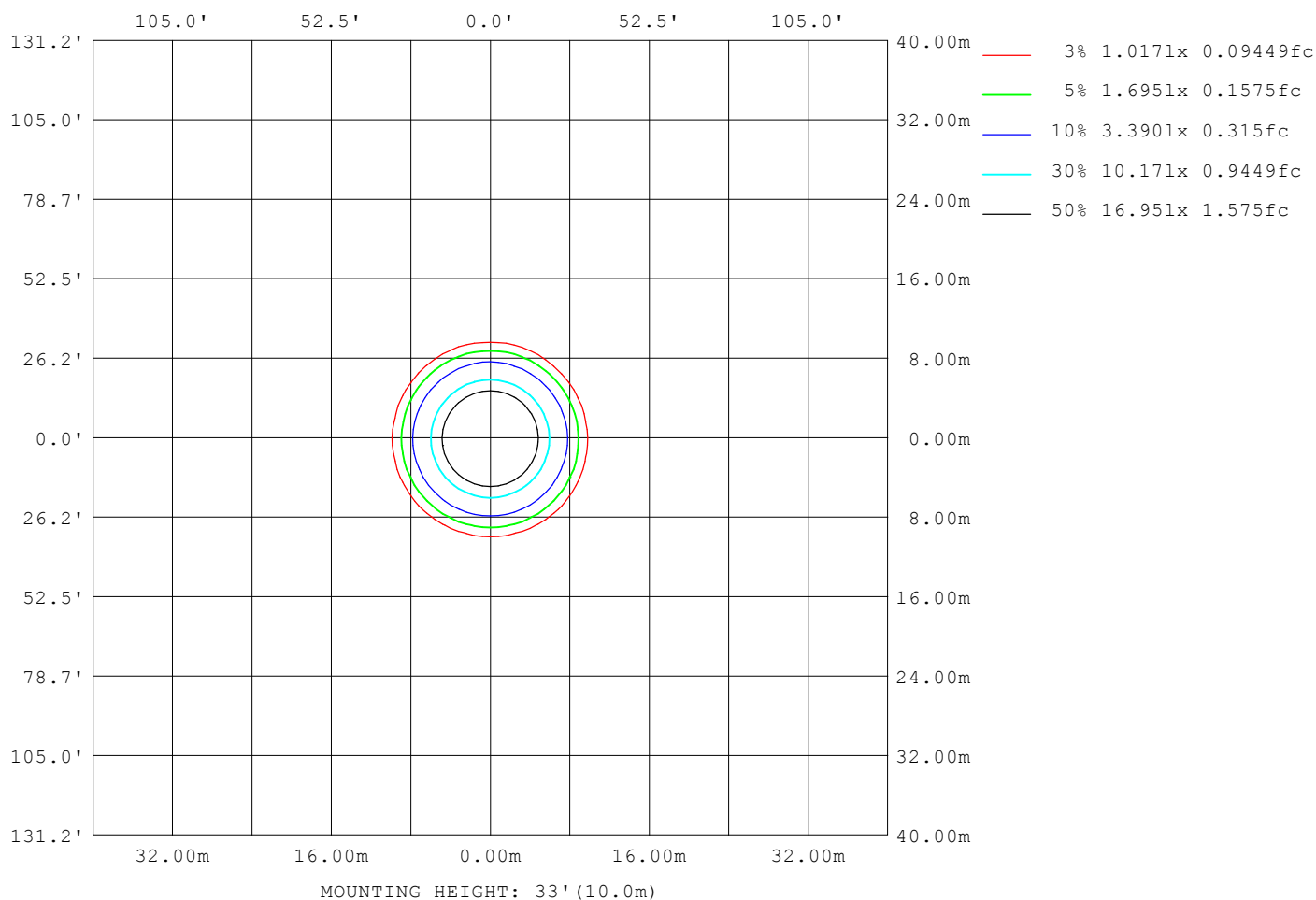
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:0.1234A P:29.3W PF:0.9883 Freq:49.99Hz		
UTHDi:0.19% ITHDi:49.86% KDisp:0.9904 Lamp Flux:3269.99x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K 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: 2024-09-14

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:

LED Avg.L Report

Test:U:240.3V I:0.1234A P:29.3W PF:0.9883 Freq:49.99Hz UTHDi:0.19% ITHDi:49.86% KDisp:0.9904 Lamp Flux:3269.99x1 lm		
NAME: TR11-35-XX-01+白色防眩环 2700K RA90 60D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

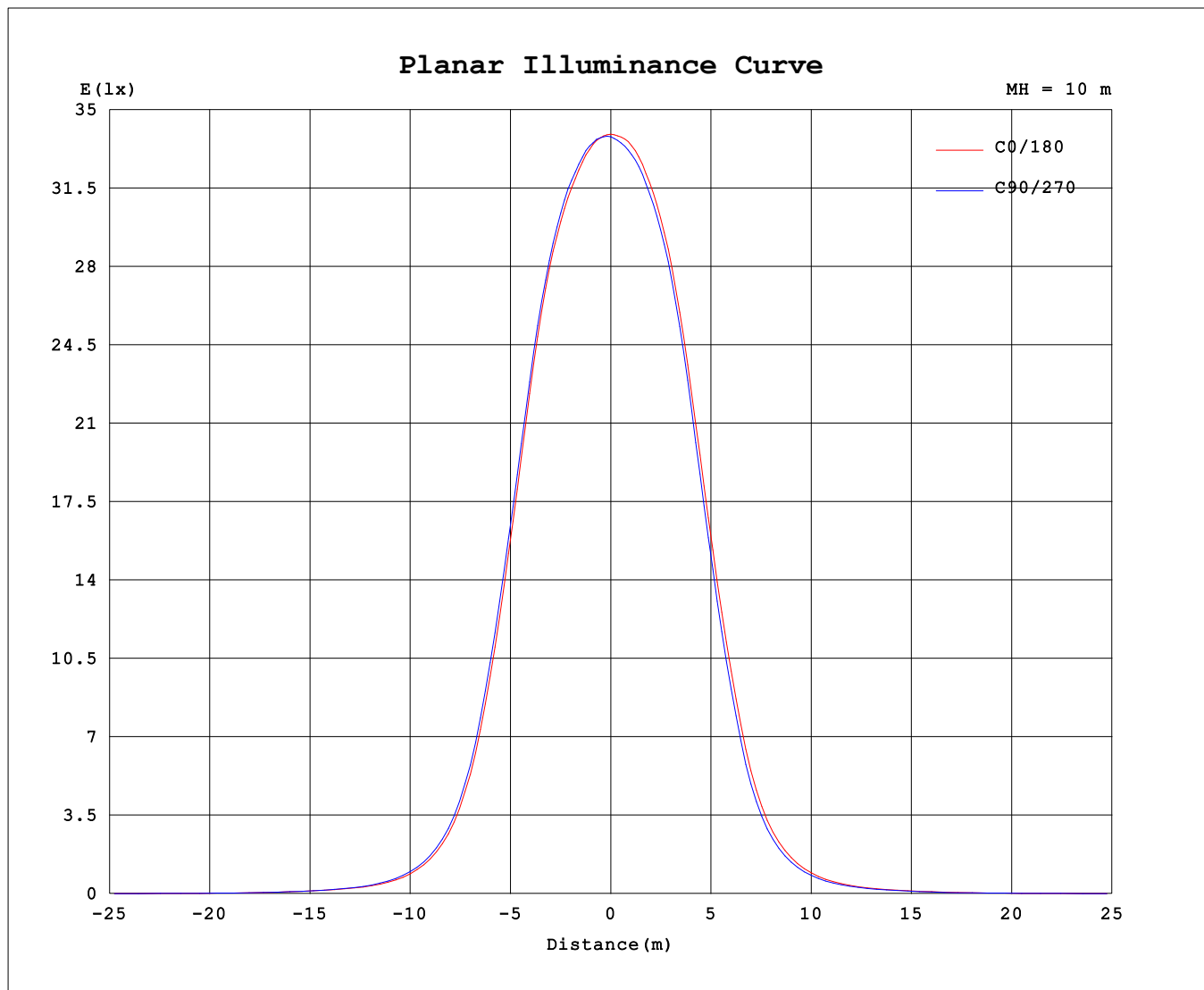
AvgL	cd/m2
L_0~180 (65) av	6864
L_0~180 (75) av	2282
L_0~180 (85) av	1150
L_90~270 (65) av	6705
L_90~270 (75) av	2286
L_90~270 (85) av	1159
L_45 (65) av	6752
L_45 (75) av	2275
L_45 (85) av	1123

Standard: GB/T 29293-2012

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

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: HIGH
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	3382	3382	3382	3382	3382	3382	3382	3382
3.0	3380	3386	3391	3392	3384	3371	3368	3375
6.0	3371	3381	3397	3400	3387	3365	3357	3364
9.0	3346	3360	3384	3383	3371	3337	3336	3341
12.0	3313	3335	3364	3351	3333	3295	3291	3303
15.0	3252	3275	3306	3286	3266	3225	3219	3239
18.0	3134	3169	3188	3160	3129	3078	3068	3102
21.0	2900	2956	2972	2949	2896	2828	2818	2858
24.0	2551	2616	2637	2632	2564	2482	2459	2494
27.0	2142	2212	2244	2243	2163	2077	2050	2077
30.0	1691	1768	1796	1798	1726	1638	1601	1622
33.0	1240	1315	1333	1333	1275	1197	1157	1179
36.0	859.0	912.6	929.9	919.8	871.8	811.0	777.7	796.8
39.0	569.7	616.1	622.1	618.4	585.3	542.4	518.6	525.8
42.0	378.2	410.6	416.3	412.8	392.1	363.1	344.6	348.0
45.0	251.3	274.7	279.4	275.1	263.2	243.2	231.5	231.3
48.0	171.1	188.0	189.9	186.7	179.0	166.7	158.9	158.5
51.0	122.2	133.1	132.8	131.0	126.7	119.0	113.3	112.5
54.0	90.50	97.38	96.65	94.31	92.62	87.62	84.07	83.86
57.0	67.39	71.66	70.21	67.74	67.00	64.33	61.60	61.86
60.0	43.12	45.54	44.30	42.62	43.07	41.26	39.57	39.50
63.0	30.64	32.32	31.19	30.14	30.63	29.44	28.31	28.27
66.0	21.58	22.62	22.14	21.77	21.81	20.82	20.58	20.49
69.0	15.62	16.06	16.09	16.17	15.72	15.02	15.16	15.42
72.0	6.643	6.778	8.605	7.779	7.343	6.474	6.504	6.646
75.0	5.008	5.024	5.045	4.970	4.913	4.797	4.894	4.992
78.0	3.673	3.697	3.718	3.666	3.662	3.609	3.607	3.666
81.0	2.034	2.183	2.385	2.389	2.379	2.231	2.104	1.992
84.0	0.9648	1.004	1.085	1.112	1.129	1.072	1.021	0.9323
87.0	0.3980	0.4209	0.4989	0.5108	0.5101	0.4595	0.4232	0.3560
90.0	0.0843	0.0677	0.0905	0.0715	0.0753	0.0761	0.0846	0.0731

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