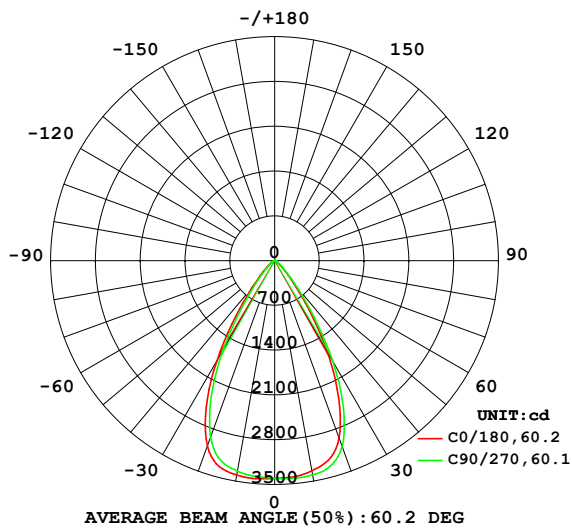


LUMINAIRE PHOTOMETRIC TEST REPORT

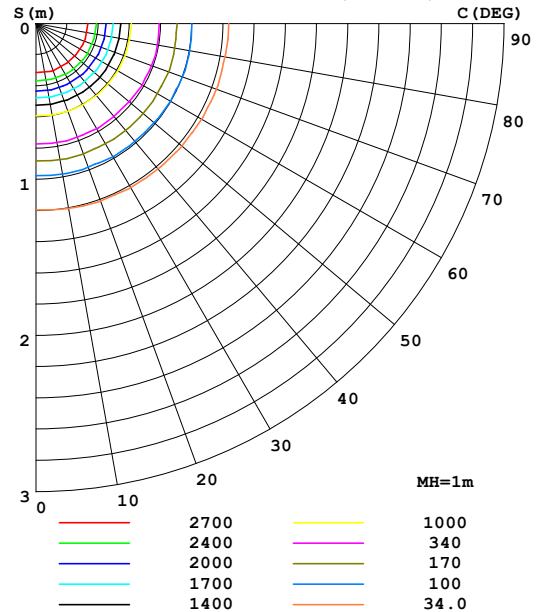
Test:U:240.4V I:0.1231A P:29.2W PF:0.9882 Freq:49.99Hz		
UTHDi:0.19% ITHDi:46.24% KDisp:0.9905 Lamp Flux:3301.45x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 60D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 112.90 lm/W			
MODEL		Imax (cd)	3427	S/MH(C0/180)	0.90
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	0.87
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	3301.5	η UP,DN(C0-180)	0.0,50.9
NOMINAL FLUX(lm)	3301.45	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.1
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	240.29	η down (%)	100.0	CIBSE SHR MAX	0.90

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	3336	3365	3401	3408	3402	3364	3341	3333	0- 10	323.8	323.8	9.81,9.81
20	2951	3032	3090	3106	3081	2999	2930	2920	10- 20	916.8	1241	37.6,37.6
30	1651	1756	1824	1867	1809	1699	1614	1594	20- 30	1103	2344	71,71
40	471.1	520.9	553.8	574.6	554.2	501.6	455.0	441.8	30- 40	636.1	2980	90.3,90.3
50	128.4	142.2	150.6	154.8	152.5	139.6	126.8	120.0	40- 50	213.7	3194	96.7,96.7
60	41.49	43.88	44.47	43.73	44.75	42.10	39.42	38.40	50- 60	75.53	3269	99,99
70	13.69	14.24	14.56	14.84	14.24	12.99	12.93	13.17	60- 70	25.00	3294	99.8,99.8
80	2.795	2.839	2.883	2.767	2.692	2.620	2.650	2.735	70- 80	6.027	3300	100,100
90	0.0884	0.0684	0.0947	0.0728	0.0708	0.0729	0.0875	0.0731	80- 90	1.063	3301	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): 3116.6 lm

%lum = 94.4%

%lamp = 94.4%

Conical surface Flux(120deg): 3269.4 lm

%lum = 99.0%

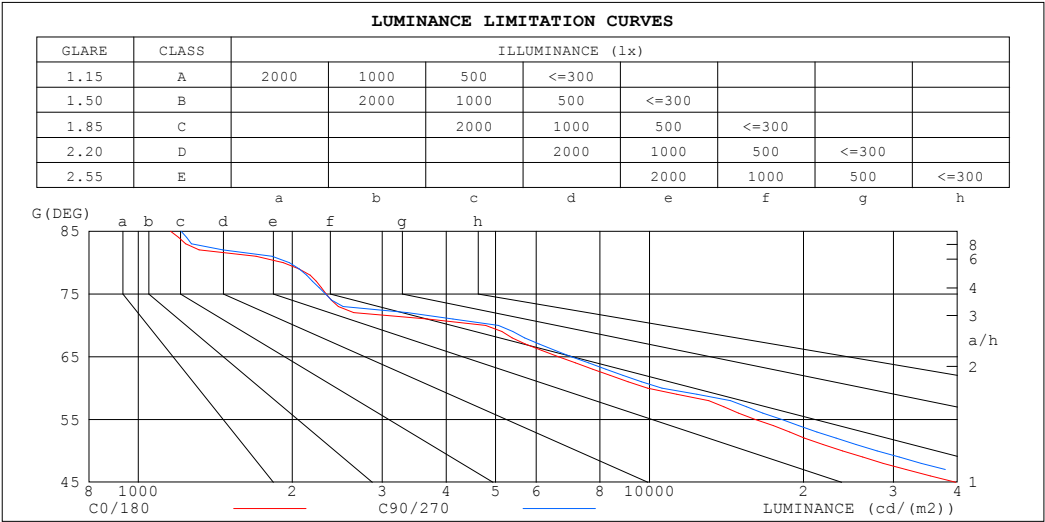
%lamp = 99.0%

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

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:0.1231A P:29.2W PF:0.9882 Freq:49.99Hz		
UTHDi:0.19% ITHDi:46.24% KDisp:0.9905Lamp Flux:3301.45x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K 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	1157	1212
80	1921	1975
75	2330	2324
70	4778	5064
65	6637	7035
60	9907	10580
55	16122	18152
50	23844	27867
45	39755	47520

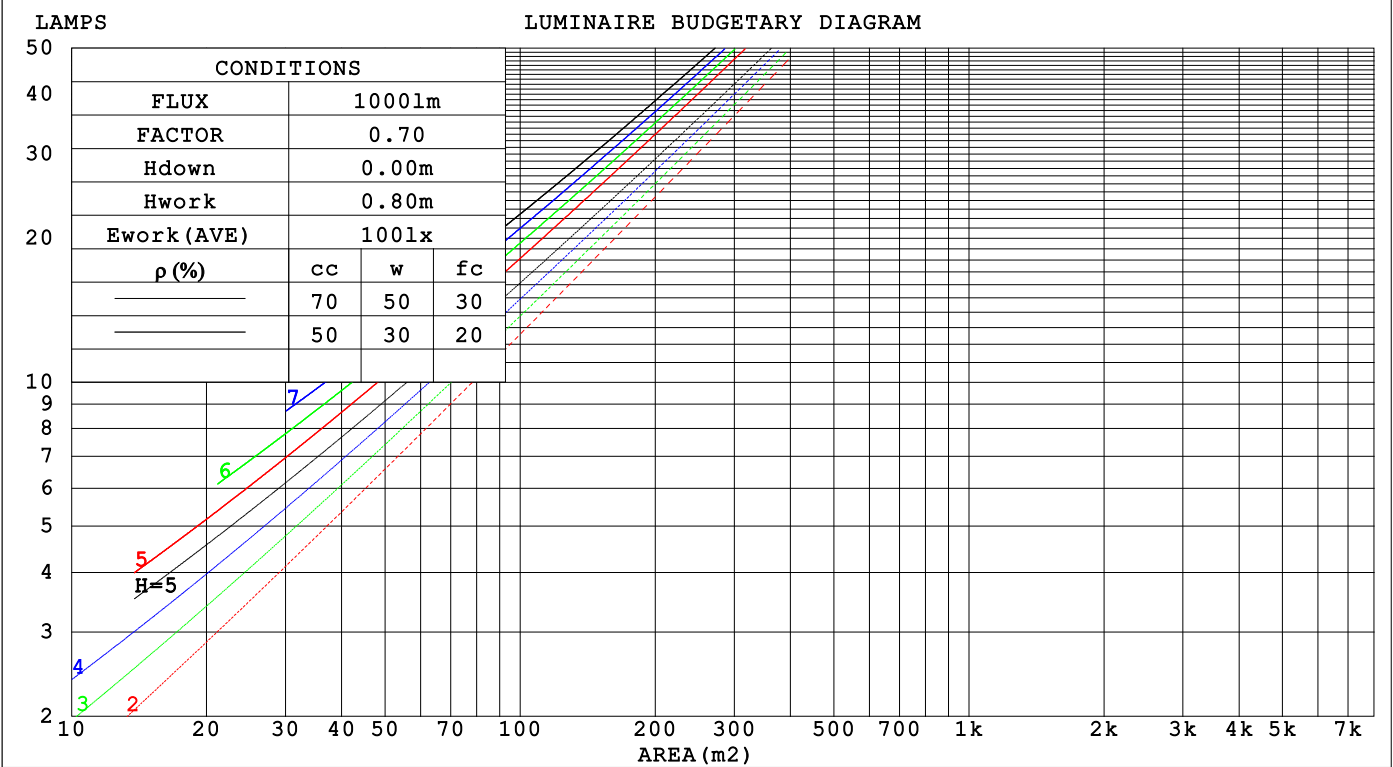
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-13

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:0.1231A P:29.2W PF:0.9882 Freq:49.99Hz		
UTHDi:0.19% ITHDi:46.24% KDisp:0.9905		
Lamp Flux:3301.45x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K 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:2024-09-13

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:0.1231A P:29.2W PF:0.9882 Freq:49.99Hz			UTHDi:0.19% ITHDi:46.24% KDisp:0.9905			Lamp Flux:3301.45x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K 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	.151	.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	.027	.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	.116	.059	.017															
9.0	.126	.061	.017	.124	.060	.017	.119	.059	.017	.115	.058	.017	.112	.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	.145	.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	.088	.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:2024-09-13

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:0.1231A P:29.2W PF:0.9882 Freq:49.99Hz											
UTHDi:0.19% ITHDi:46.24% KDisp:0.9905					Lamp Flux:3301.45x1 lm						
NAME: TR11-35-XX-01+白色防眩环 3000K 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	21.2	22.2	21.4	22.3	22.5	21.7	22.7	21.9	22.8	23.0	
	3H	21.1	22.0	21.3	22.2	22.4	21.6	22.5	21.8	22.7	22.9
	4H	21.0	21.8	21.3	22.1	22.3	21.5	22.3	21.8	22.6	22.8
	6H	20.9	21.7	21.2	21.9	22.2	21.4	22.2	21.7	22.4	22.7
	8H	20.9	21.6	21.2	21.9	22.1	21.4	22.1	21.7	22.4	22.6
	12H	20.8	21.5	21.1	21.8	22.1	21.3	22.0	21.6	22.3	22.6
4H	2H	21.0	21.8	21.3	22.1	22.3	21.5	22.3	21.8	22.6	22.8
	3H	20.9	21.6	21.2	21.9	22.2	21.4	22.1	21.7	22.4	22.7
	4H	20.8	21.5	21.2	21.8	22.1	21.3	22.0	21.7	22.3	22.6
	6H	20.7	21.3	21.1	21.6	22.0	21.2	21.8	21.6	22.1	22.5
	8H	20.7	21.2	21.1	21.6	21.9	21.2	21.7	21.6	22.1	22.4
	12H	20.6	21.1	21.0	21.5	21.9	21.1	21.6	21.5	22.0	22.4
8H	4H	20.7	21.2	21.1	21.6	21.9	21.2	21.7	21.6	22.1	22.4
	6H	20.6	21.0	21.0	21.4	21.8	21.1	21.5	21.5	21.9	22.3
	8H	20.5	20.9	21.0	21.3	21.8	21.0	21.4	21.5	21.8	22.3
	12H	20.5	20.8	21.0	21.3	21.7	21.0	21.3	21.4	21.8	22.2
12H	4H	20.6	21.1	21.0	21.5	21.9	21.1	21.6	21.5	22.0	22.4
	6H	20.5	20.9	21.0	21.3	21.8	21.0	21.4	21.5	21.8	22.3
	8H	20.5	20.8	21.0	21.3	21.7	21.0	21.3	21.4	21.8	22.2
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 2.6 / - 6.0					+ 2.9 / - 6.2				
1.5H		+ 4.3 / - 4.2					+ 4.6 / - 4.6				
2.0H		+ 4.1 / - 4.4					+ 4.7 / - 4.9				

CIE Pub.117, 3301 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:2024-09-13

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:0.1231A P:29.2W PF:0.9882 Freq:49.99Hz		
UTHDi:0.19% ITHDi:46.24% KDisp:0.9905 Lamp Flux:3301.45x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 60D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

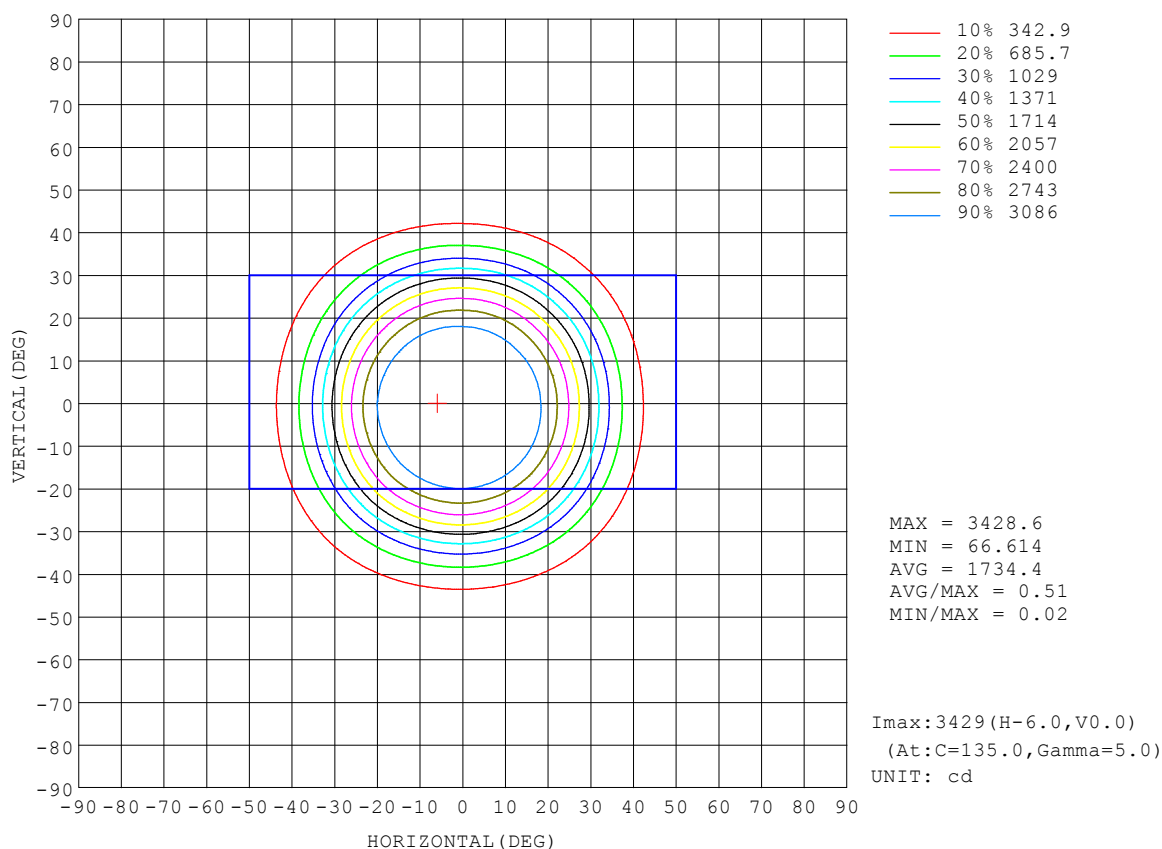
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	85	79	75	85	78	75	84	78	74	71
0.80	93	87	83	92	87	83	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: 2024-09-13

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:240.4V I:0.1231A P:29.2W PF:0.9882 Freq:49.99Hz		
UTHDi:0.19% ITHDi:46.24% KDisp:0.9905 Lamp Flux:3301.45x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 60D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

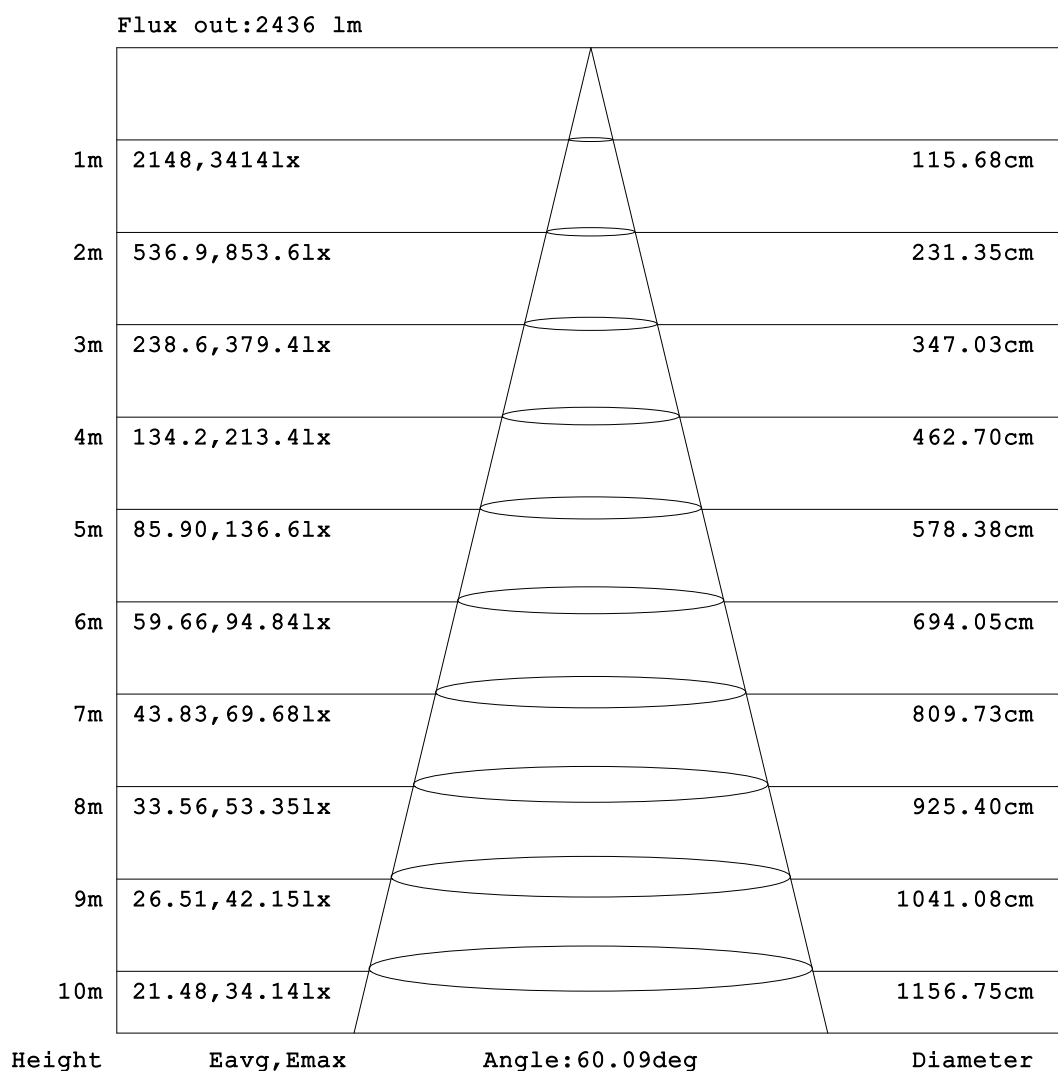


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-13

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:0.1231A P:29.2W PF:0.9882 Freq:49.99Hz		
UTHDi:0.19% ITHDi:46.24% KDisp:0.9905 Lamp Flux:3301.45x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 60D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:



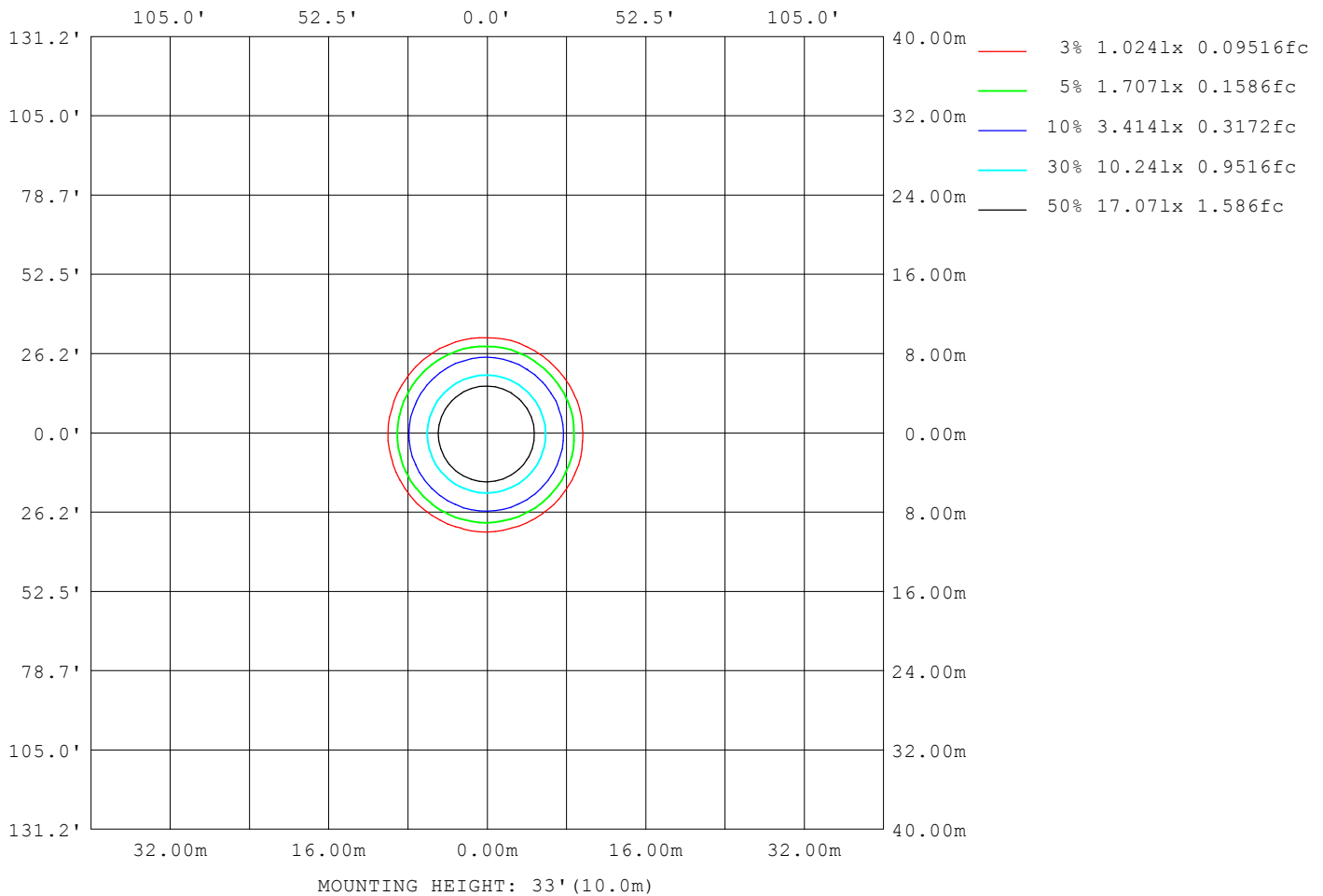
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:0.1231A P:29.2W PF:0.9882 Freq:49.99Hz		
UTHDi:0.19% ITHDi:46.24% KDisp:0.9905 Lamp Flux:3301.45x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K 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: 2024-09-13

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:0.1231A P:29.2W PF:0.9882 Freq:49.99Hz UTHDi:0.19% ITHDi:46.24% KDisp:0.9905 Lamp Flux:3301.45x1 lm		
NAME: TR11-35-XX-01+白色防眩环 3000K RA90 60D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

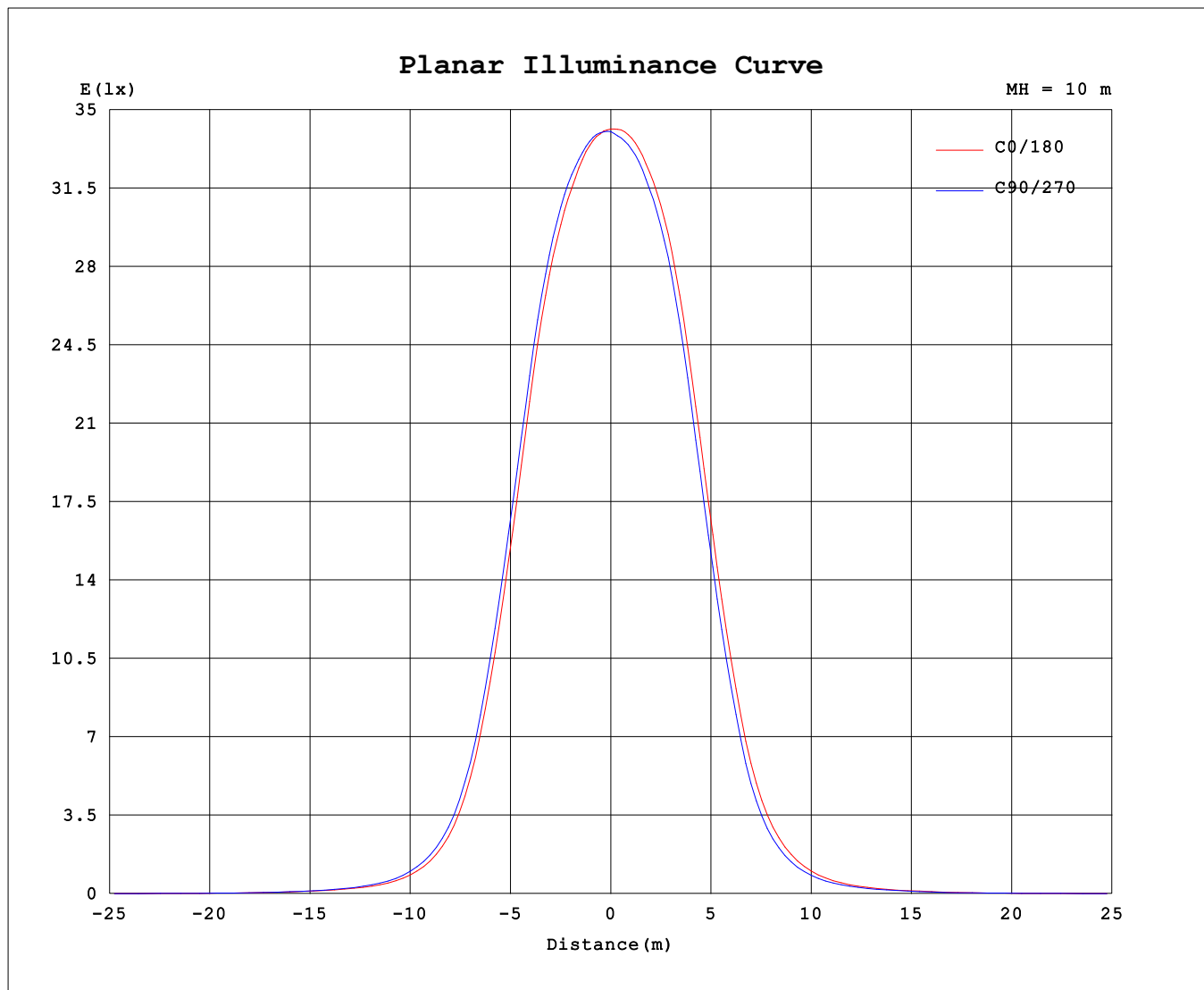
AvgL	cd/m2
L_0~180 (65) av	6853
L_0~180 (75) av	2271
L_0~180 (85) av	1151
L_90~270 (65) av	6703
L_90~270 (75) av	2267
L_90~270 (85) av	1158
L_45 (65) av	6717
L_45 (75) av	2262
L_45 (85) av	1122

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	3405	3405	3405	3405	3405	3405	3405	3405
3.0	3397	3407	3414	3417	3414	3399	3390	3391
6.0	3386	3399	3418	3426	3419	3397	3380	3379
9.0	3354	3375	3406	3414	3411	3375	3356	3349
12.0	3305	3339	3388	3394	3386	3343	3313	3302
15.0	3230	3278	3333	3342	3336	3287	3237	3226
18.0	3097	3160	3219	3227	3214	3149	3086	3076
21.0	2856	2946	3005	3023	2988	2901	2833	2824
24.0	2501	2600	2672	2716	2665	2557	2474	2456
27.0	2094	2203	2275	2322	2260	2145	2061	2039
30.0	1651	1756	1824	1867	1809	1699	1614	1594
33.0	1208	1301	1355	1389	1342	1246	1165	1154
36.0	820.5	892.7	946.4	965.4	929.6	857.5	782.6	776.4
39.0	541.5	597.0	632.9	655.3	631.0	573.8	521.7	508.3
42.0	356.5	395.2	423.2	439.3	425.9	385.5	347.3	334.2
45.0	235.5	264.0	282.5	292.9	285.7	258.7	232.6	221.2
48.0	160.7	179.9	191.4	198.0	193.9	176.7	159.7	151.2
51.0	115.2	127.2	134.1	137.5	136.2	125.1	113.6	107.9
54.0	85.98	93.35	96.81	99.05	98.81	91.31	84.12	80.78
57.0	63.73	68.51	70.84	70.87	71.39	66.86	61.51	59.64
60.0	41.49	43.88	44.47	43.73	44.75	42.10	39.42	38.40
63.0	29.47	31.21	31.35	30.77	31.63	29.89	28.14	27.49
66.0	20.96	22.16	22.34	22.25	22.43	21.10	20.45	20.01
69.0	15.44	16.06	16.27	16.60	16.14	15.26	15.11	15.25
72.0	6.825	7.067	8.737	7.468	6.817	6.310	6.393	6.648
75.0	5.051	5.060	5.056	4.939	4.822	4.699	4.802	4.973
78.0	3.774	3.768	3.729	3.591	3.523	3.493	3.552	3.705
81.0	2.226	2.312	2.402	2.298	2.208	2.087	2.079	2.121
84.0	1.050	1.066	1.092	1.057	1.042	1.002	1.015	0.9892
87.0	0.4528	0.4643	0.5015	0.4741	0.4505	0.4167	0.4215	0.3938
90.0	0.0884	0.0684	0.0947	0.0728	0.0708	0.0729	0.0875	0.0731

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: