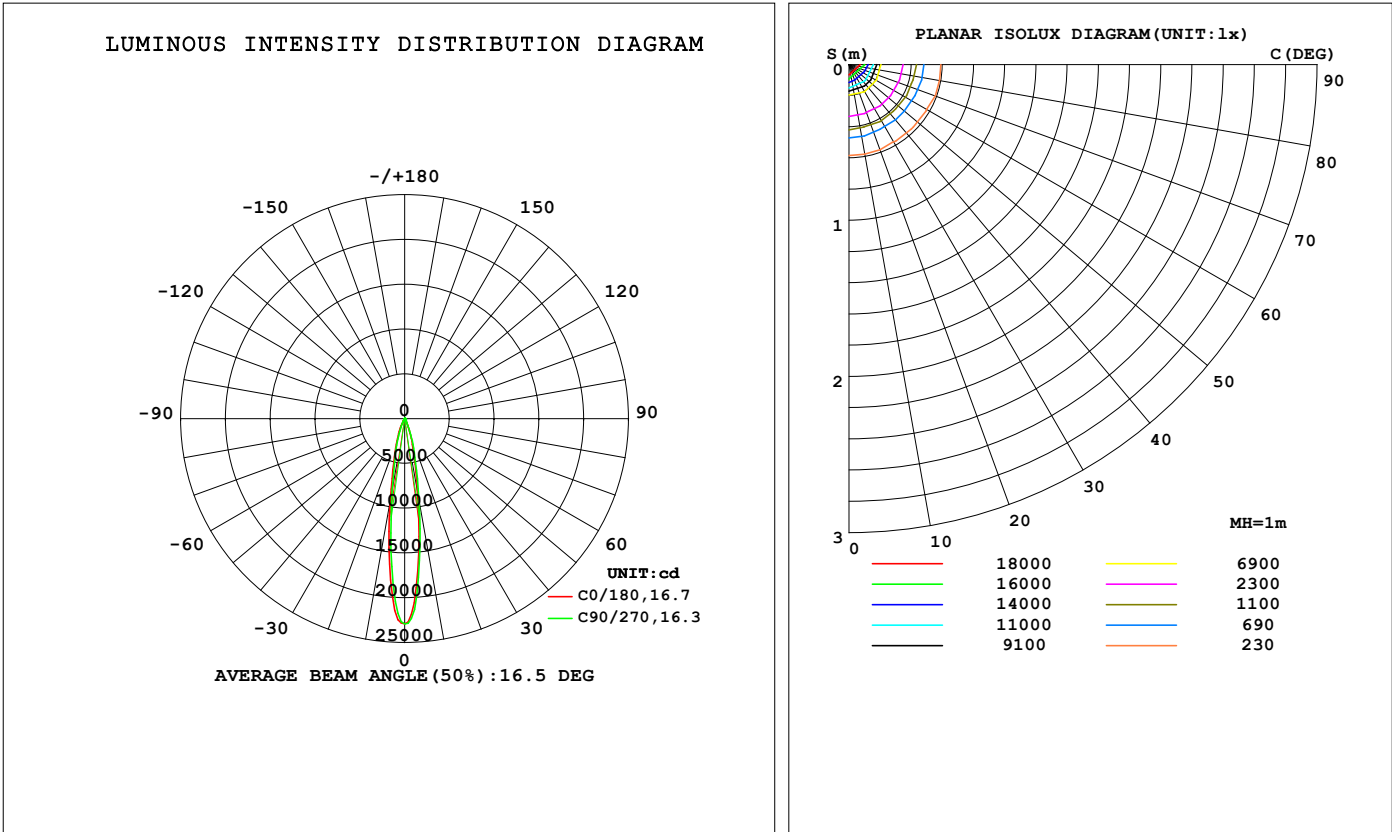


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.3V I:0.1241A P:29.5W PF:0.9886 Freq:49.99Hz		
UTHDi:0.16% ITHDi:15.35% KDisp:0.9908 Lamp Flux:3282.39x1 lm		
NAME: TR11-35-XX-01+白色防眩环 4000K RA90 15D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 111.39 lm/W
MODEL		Imax (cd)	22895	S/MH (C0/180)	0.30	
NOMINAL POWER(W)	30	LOR (%)	100.0	S/MH (C90/270)	0.27	
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	3282.4	η UP,DN (C0-180)	0.0,50.8	
NOMINAL FLUX(lm)	3282.39	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,49.2	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	240.16	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:2024-09-12

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	832.5	877.3	938.3	944.1	936.5	864.5	805.8	795.9	0- 10	1367	1367	41.7,41.7
20	205.3	206.8	229.6	230.2	234.8	214.6	206.8	195.2	10- 20	1212	2579	78.6,78.6
30	33.76	33.95	37.08	39.38	41.56	36.25	33.84	32.17	20- 30	456.6	3036	92.5,92.5
40	10.86	10.90	11.43	11.98	12.48	11.35	10.84	10.48	30- 40	123.8	3160	96.3,96.3
50	5.613	5.572	5.653	6.011	6.137	5.614	5.201	5.334	40- 50	60.93	3221	98.1,98.1
60	2.957	3.119	2.971	3.289	3.389	3.146	2.734	2.868	50- 60	38.40	3259	99.3,99.3
70	0.7018	0.7970	0.8822	0.9813	0.9668	0.8832	0.7736	0.6952	60- 70	18.71	3278	99.9,99.9
80	0.1383	0.1368	0.1483	0.1696	0.1590	0.1515	0.1509	0.1387	70- 80	3.717	3282	100,100
90	0.0113	0.0065	0.0133	0.0146	0.0065	0.0067	0.0097	0.0062	80- 90	0.6781	3282	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): 3194.4 lm

%lum = 97.3%

%lamp = 97.3%

Conical surface Flux(120deg): 3259.3 lm

%lum = 99.3%

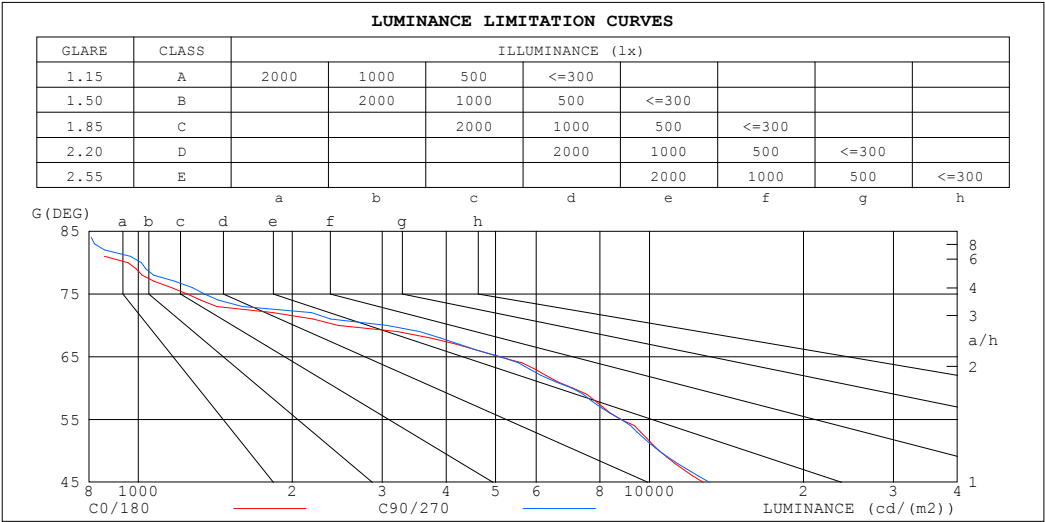
%lamp = 99.3%

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

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:0.1241A P:29.5W PF:0.9886 Freq:49.99Hz		
UTHDi:0.16% ITHDi:15.35% KDisp:0.9908 Lamp Flux:3282.39x1 lm		
NAME: TR11-35-XX-01+白色防眩环 4000K RA90 15D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	724	796
80	954	1014
75	1246	1348
70	2458	3063
65	5088	5114
60	7083	7055
55	8793	8807
50	10461	10443
45	12730	13095

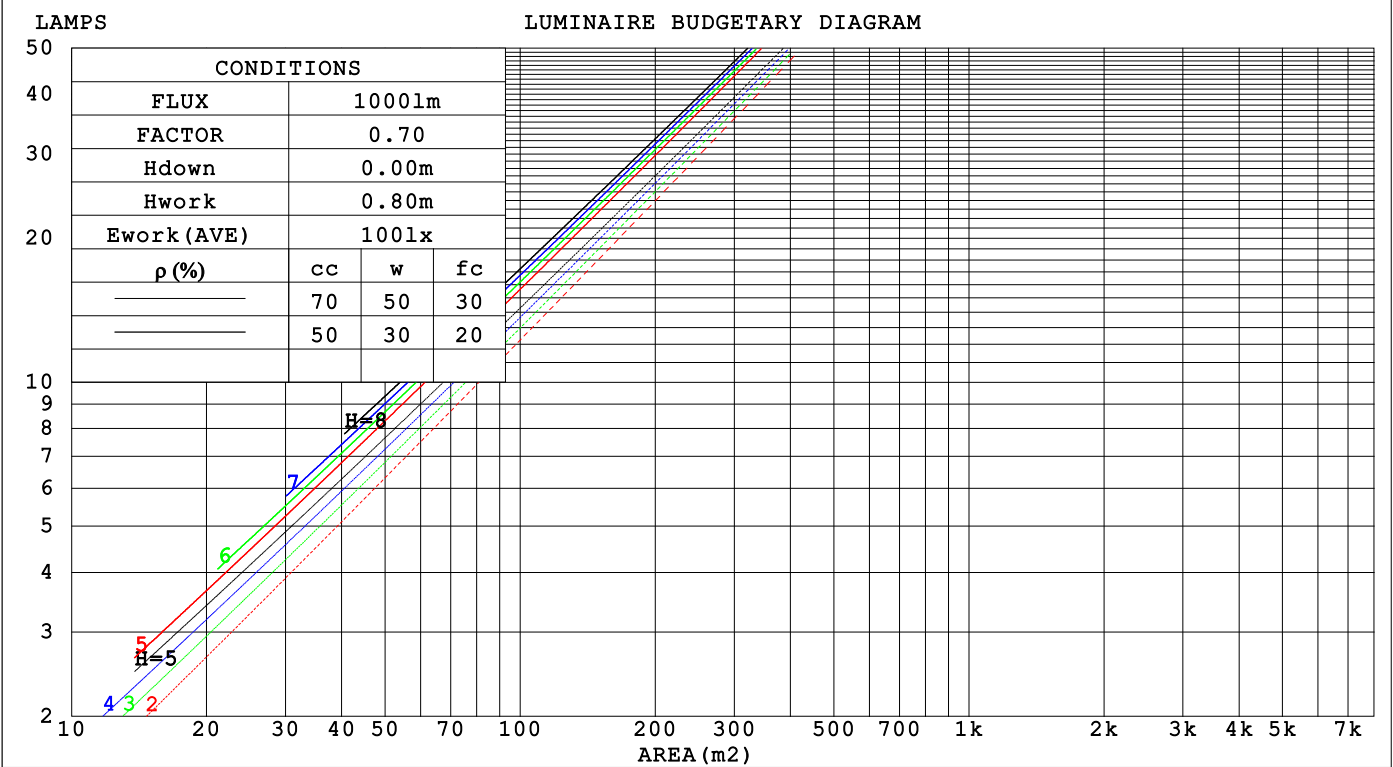
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-12

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:0.1241A P:29.5W PF:0.9886 Freq:49.99Hz		
UTHDi:0.16% ITHDi:15.35% KDisp:0.9908		
Lamp Flux:3282.39x1 lm		
NAME: TR11-35-XX-01+白色防眩环 4000K RA90 15D 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: MEDIUM
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:0.1241A P:29.5W PF:0.9886 Freq:49.99Hz			UTHDi:0.16% ITHDi:15.35% KDisp:0.9908			Lamp Flux:3282.39x1 lm		
NAME: TR11-35-XX-01+白色防眩环 4000K RA90 15D 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	.138	.078	.025	.131	.075	.024	.119	.068	.022	.107	.062	.020	.097	.056	.018															
2.0	.128	.070	.021	.122	.067	.021	.112	.062	.019	.103	.058	.018	.094	.053	.017															
3.0	.119	.063	.019	.114	.061	.018	.106	.057	.017	.098	.054	.016	.091	.050	.016															
4.0	.111	.058	.017	.107	.056	.017	.100	.053	.016	.094	.050	.015	.087	.047	.014															
5.0	.104	.053	.015	.101	.052	.015	.095	.049	.015	.089	.047	.014	.084	.045	.013															
6.0	.098	.049	.014	.096	.048	.014	.090	.046	.013	.086	.044	.013	.081	.043	.013															
7.0	.093	.046	.013	.091	.045	.013	.086	.044	.013	.082	.042	.012	.078	.040	.012															
8.0	.089	.043	.012	.086	.043	.012	.082	.041	.012	.079	.040	.011	.075	.039	.011															
9.0	.084	.041	.011	.082	.040	.011	.079	.039	.011	.076	.038	.011	.073	.037	.011															
10.0	.081	.039	.011	.079	.038	.011	.076	.037	.010	.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	.105	.085	.069	.072	.059	.048	.042	.035	.029	.013	.011	.009	
5.0	.112	.086	.066	.096	.074	.057	.066	.052	.040	.038	.030	.024	.012	.010	.008	
6.0	.103	.076	.056	.089	.065	.049	.061	.046	.034	.036	.027	.020	.011	.009	.007	
7.0	.096	.067	.048	.082	.058	.041	.057	.041	.029	.033	.024	.018	.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	.033	.022	.029	.020	.013	.009	.006	.004	
10.0	.078	.050	.031	.067	.043	.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:2024-09-12

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:0.1241A P:29.5W PF:0.9886 Freq:49.99Hz										
UTHDi:0.16% ITHDi:15.35% KDisp:0.9908 Lamp Flux:3282.39x1 lm										
NAME: TR11-35-XX-01+白色防眩环 4000K RA90 15D 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	12.5	13.1	12.7	13.3	13.4	12.6	13.2	12.8	13.4	13.5
3H	12.7	13.3	12.9	13.5	13.7	12.8	13.4	13.0	13.6	13.7
4H	12.6	13.2	12.9	13.4	13.6	12.7	13.3	13.0	13.5	13.7
6H	12.6	13.1	12.8	13.3	13.6	12.7	13.2	12.9	13.4	13.7
8H	12.5	13.0	12.8	13.3	13.5	12.6	13.1	12.9	13.4	13.6
12H	12.5	13.0	12.8	13.2	13.5	12.6	13.1	12.9	13.3	13.6
4H 2H	12.7	13.2	12.9	13.4	13.7	12.7	13.3	13.0	13.5	13.7
3H	12.9	13.4	13.2	13.6	13.9	12.9	13.5	13.3	13.7	14.0
4H	12.8	13.3	13.1	13.6	13.9	12.9	13.4	13.2	13.7	14.0
6H	12.7	13.1	13.1	13.5	13.8	12.8	13.2	13.2	13.6	13.9
8H	12.7	13.1	13.1	13.4	13.8	12.8	13.2	13.2	13.5	13.9
12H	12.6	13.0	13.0	13.4	13.7	12.7	13.1	13.1	13.5	13.8
8H 4H	12.7	13.1	13.1	13.4	13.8	12.8	13.2	13.2	13.5	13.9
6H	12.6	12.9	13.0	13.3	13.7	12.7	13.0	13.1	13.4	13.8
8H	12.6	12.8	13.0	13.3	13.7	12.6	12.9	13.1	13.3	13.8
12H	12.5	12.7	13.0	13.2	13.7	12.6	12.8	13.1	13.3	13.7
12H 4H	12.6	13.0	13.0	13.4	13.7	12.7	13.1	13.1	13.4	13.8
6H	12.5	12.8	13.0	13.2	13.7	12.6	12.9	13.1	13.3	13.8
8H	12.5	12.7	13.0	13.2	13.6	12.6	12.8	13.1	13.3	13.7
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.1 / - 1.6					+ 1.2 / - 1.6				
1.5H	+ 1.6 / - 0.9					+ 1.7 / - 0.9				
2.0H	+ 1.4 / - 1.4					+ 1.6 / - 1.5				

CIE Pub.117, 3282 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: MEDIUM
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:0.1241A P:29.5W PF:0.9886 Freq:49.99Hz		
UTHDi:0.16% ITHDi:15.35% KDisp:0.9908 Lamp Flux:3282.39x1 lm		
NAME: TR11-35-XX-01+白色防眩环 4000K RA90 15D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

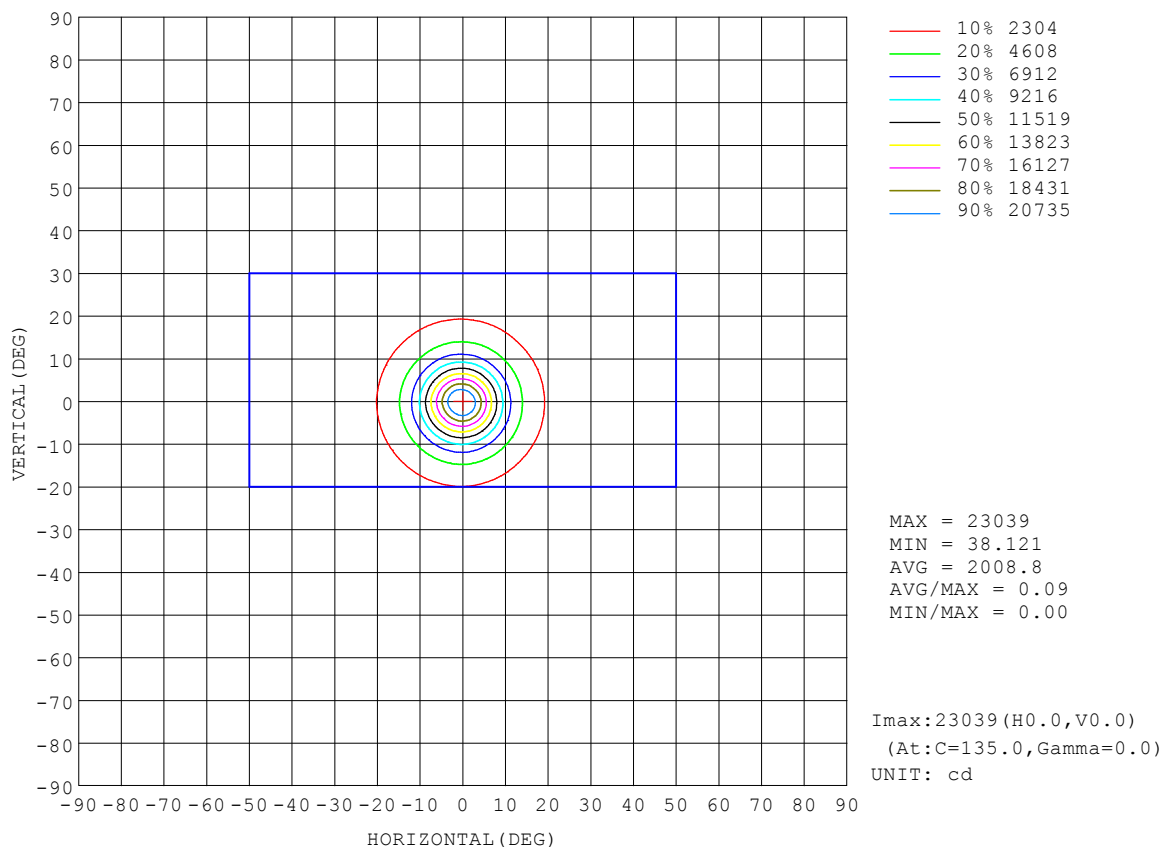
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	80	89	83	80	88	83	79	76
0.80	96	91	87	96	91	87	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	102	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: 2024-09-12

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:

ISOCANDELA DIAGRAM

Test:U:240.3V I:0.1241A P:29.5W PF:0.9886 Freq:49.99Hz		
UTHDi:0.16% ITHDi:15.35% KDisp:0.9908 Lamp Flux:3282.39x1 lm		
NAME: TR11-35-XX-01+白色防眩环 4000K RA90 15D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

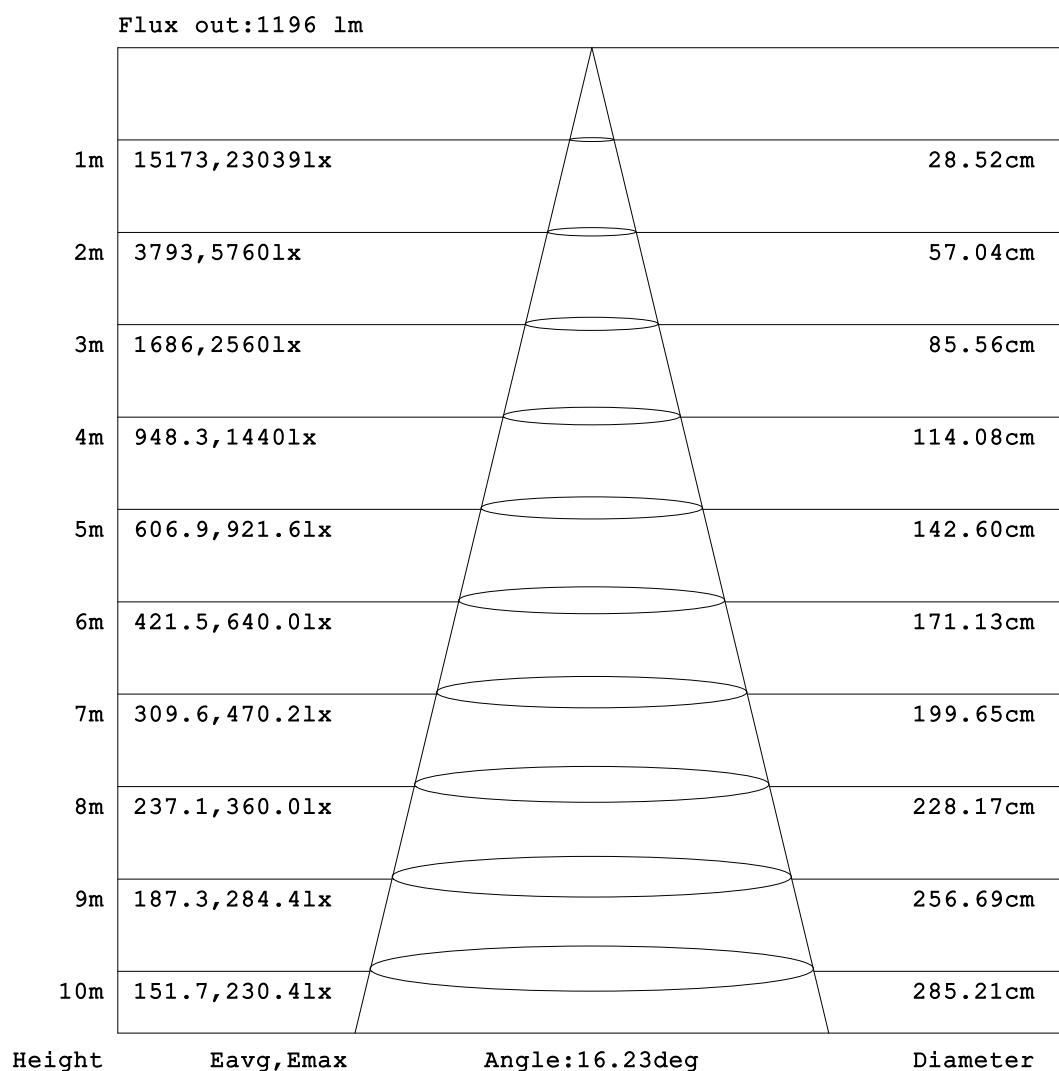


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-09-12

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:

AAI Figure

Test:U:240.3V I:0.1241A P:29.5W PF:0.9886 Freq:49.99Hz		
UTHDi:0.16% ITHDi:15.35% KDisp:0.9908 Lamp Flux:3282.39x1 lm		
NAME: TR11-35-XX-01+白色防眩环 4000K RA90 15D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:



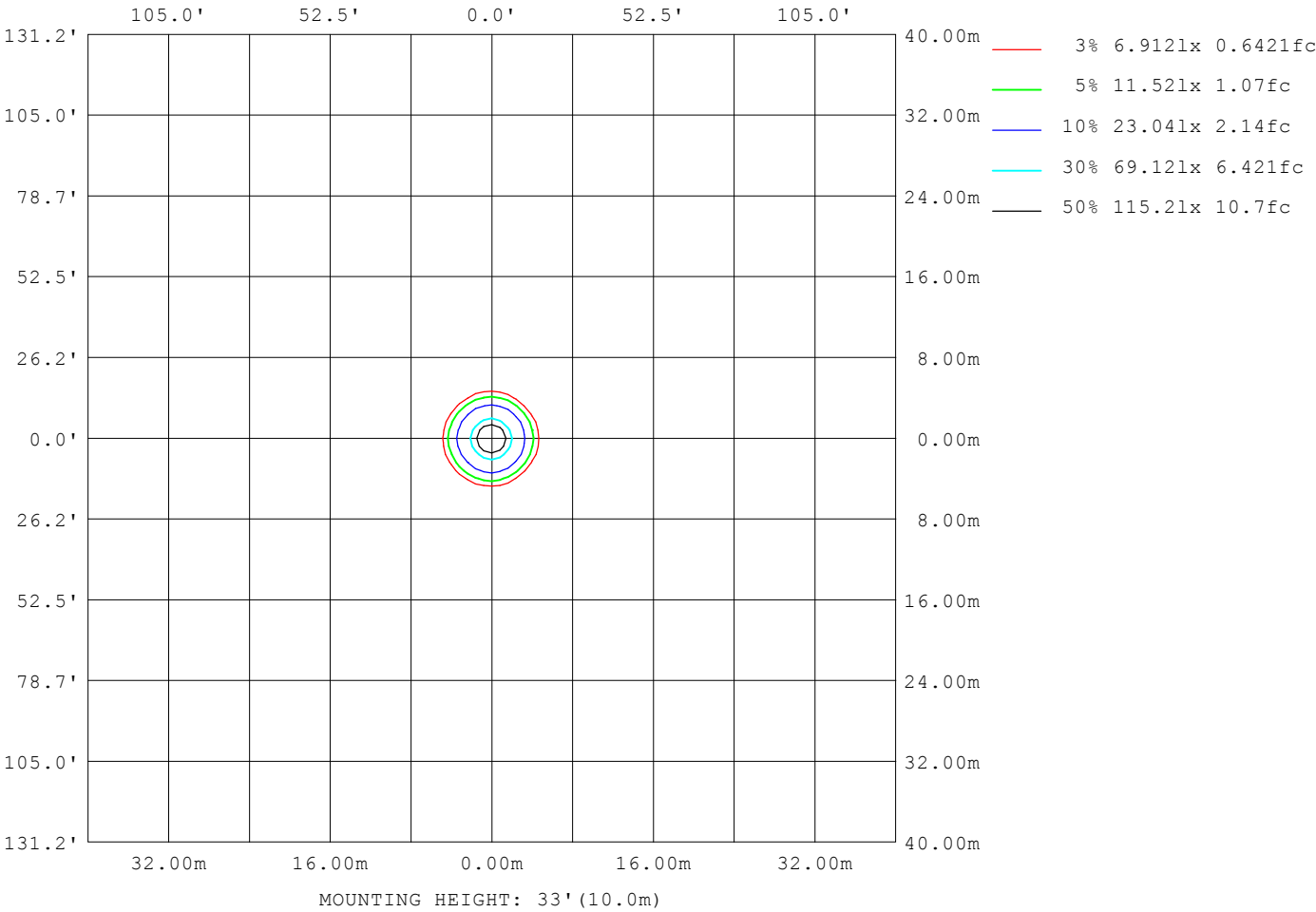
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
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:0.1241A P:29.5W PF:0.9886 Freq:49.99Hz		
UTHDi:0.16% ITHDi:15.35% KDisp:0.9908 Lamp Flux:3282.39x1 lm		
NAME: TR11-35-XX-01+白色防眩环 4000K RA90 15D 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: 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:2024-09-12	Remarks:

LED Avg.L Report

Test:U:240.3V I:0.1241A P:29.5W PF:0.9886 Freq:49.99Hz UTHDi:0.16% ITHDi:15.35% KDisp:0.9908 Lamp Flux:3282.39x1 lm		
NAME: TR11-35-XX-01+白色防眩环 4000K RA90 15D 30W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 104mm	Shielding Angle:

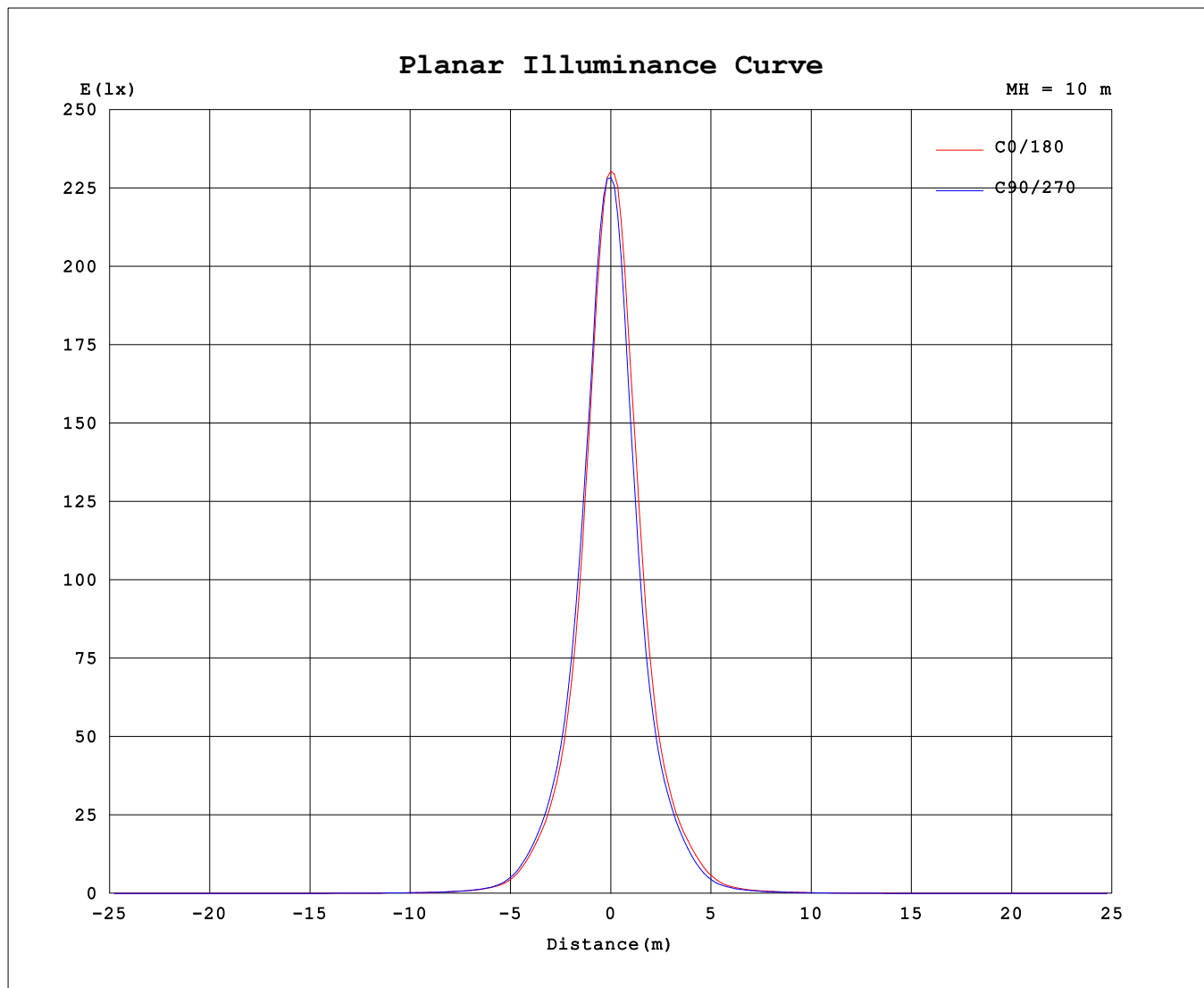
AvgL	cd/m2
L_0~180 (65) av	5525
L_0~180 (75) av	1321
L_0~180 (85) av	792
L_90~270 (65) av	4932
L_90~270 (75) av	1351
L_90~270 (85) av	783
L_45 (65) av	5454
L_45 (75) av	1354
L_45 (85) av	752

Standard: GB/T 29293-2012

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

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: MEDIUM
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	22895	22895	22895	22895	22895	22895	22895	22895
3.0	20581	21017	21319	21465	21440	20981	20442	20329
6.0	15106	15518	15909	16204	16326	15398	14725	14588
9.0	9686	10225	10770	11026	10959	10074	9408	9423
12.0	6092	6458	6883	6960	6861	6299	5994	5854
15.0	3967	4185	4486	4486	4459	4126	4002	3875
18.0	2665	2777	3016	3011	3013	2834	2731	2581
21.0	1781	1763	1987	2018	2073	1833	1779	1675
24.0	1051	1025	1203	1235	1321	1090	1049	961.8
27.0	574.3	578.9	660.2	694.9	744.0	623.9	579.3	535.7
30.0	337.6	339.5	370.8	393.8	415.6	362.5	338.4	321.7
33.0	224.3	225.0	238.5	254.2	265.6	237.8	224.4	215.7
36.0	158.7	159.5	167.5	177.6	186.0	167.9	159.2	153.3
39.0	118.6	119.1	124.8	131.1	136.9	124.3	118.5	114.5
42.0	92.99	92.45	97.63	101.3	105.3	96.51	91.66	89.65
45.0	75.14	74.44	77.98	81.29	84.05	76.91	72.81	72.06
48.0	62.55	62.01	63.87	67.32	69.11	63.18	59.00	59.69
51.0	53.30	53.09	53.39	57.01	58.06	53.17	49.09	50.64
54.0	45.86	46.01	45.45	48.94	49.62	46.01	41.89	44.03
57.0	36.75	38.22	36.66	39.86	41.04	37.63	33.37	35.53
60.0	29.57	31.19	29.71	32.89	33.89	31.46	27.34	28.68
63.0	22.63	23.49	22.30	24.98	25.50	24.23	20.90	22.04
66.0	15.65	16.52	15.78	18.09	18.51	17.41	14.62	15.15
69.0	9.585	10.40	10.69	11.84	11.82	11.02	9.739	9.449
72.0	4.735	5.258	5.676	6.130	5.912	5.620	5.416	4.819
75.0	2.692	2.780	2.938	3.256	3.054	2.968	2.937	2.772
78.0	1.765	1.772	1.877	2.175	2.016	1.949	1.922	1.772
81.0	1.121	1.131	1.271	1.466	1.399	1.296	1.253	1.105
84.0	0.6484	0.6093	0.7121	0.8132	0.7636	0.6847	0.6895	0.5966
87.0	0.2980	0.2533	0.3534	0.5139	0.3628	0.3145	0.3220	0.2346
90.0	0.1133	0.0654	0.1334	0.1457	0.0655	0.0667	0.0970	0.0617

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