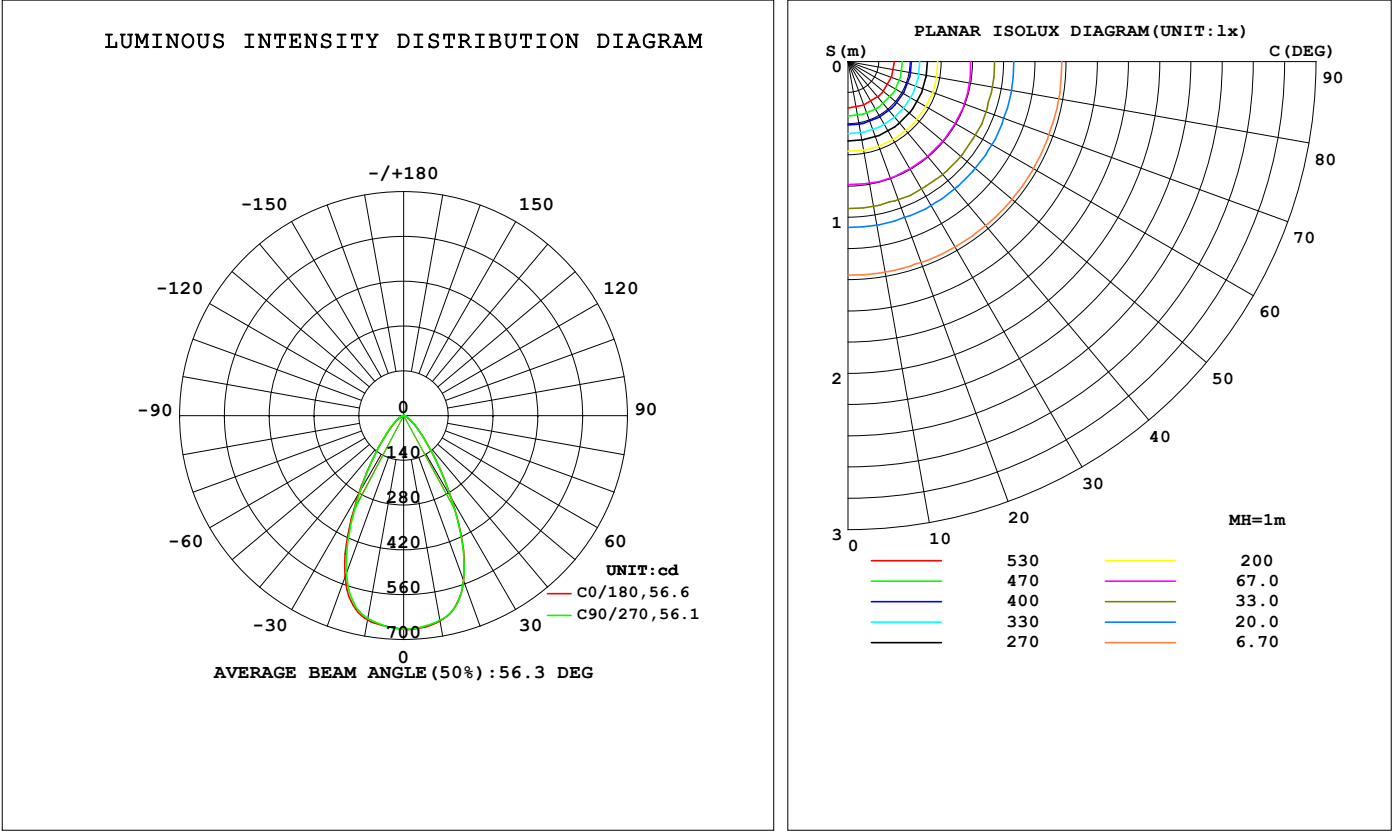


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.5V I:0.0445A P:9.8W PF:0.9178 Freq:49.99Hz		
UTHDi:0.19% ITHDi:19.59% KDisp:0.9356 Lamp Flux:635.019x1 lm		
NAME: DL56-10-XX-02 2700K RA90 50D MAX 反光杯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 64.72 lm/W
MODEL		Imax (cd)	669.1	S/MH(C0/180)	0.84	
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.84	
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	635.02	η UP,DN(C0-180)	0.0,51.1	
NOMINAL FLUX(lm)	635.019	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,48.9	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	240.42	η down (%)	100.0	CIBSE SHR MAX	0.85	



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

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	652.3	654.0	649.8	646.6	648.5	643.1	644.4	645.3	0- 10	62.77	62.77	9.89,9.89
20	547.8	554.4	547.2	539.3	536.1	525.4	523.6	529.8	10- 20	170.3	233.0	36.7,36.7
30	299.7	309.0	297.7	290.5	280.6	272.9	272.8	281.0	20- 30	189.7	422.8	66.6,66.6
40	114.2	119.0	113.2	110.4	106.5	105.1	106.9	109.0	30- 40	115.5	538.3	84.8,84.8
50	45.72	47.21	46.02	45.15	43.70	43.31	43.82	44.33	40- 50	55.03	593.3	93.4,93.4
60	18.29	18.91	18.40	18.01	17.43	17.18	17.49	17.83	50- 60	26.05	619.4	97.5,97.5
70	7.502	7.746	7.240	7.371	7.099	6.969	7.029	7.187	60- 70	11.73	631.1	99.4,99.4
80	1.394	0.6487	0.3705	0.6857	1.206	0.5749	0.3246	0.6410	70- 80	3.770	634.9	100,100
90	0.0128	0.0080	0.0090	0.0064	0.0109	0.0077	0.0074	0.0077	80- 90	0.1477	635.0	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): 570.71 lm

%lum = 89.9%

%lamp = 89.9%

Conical surface Flux(120deg): 619.37 lm

%lum = 97.5%

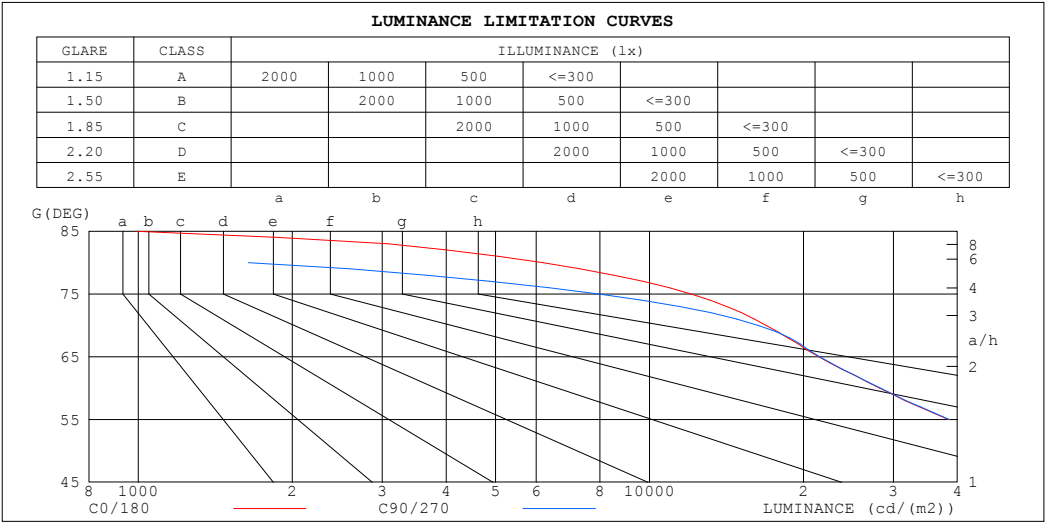
%lamp = 97.5%

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

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:240.5V I:0.0445A P:9.8W PF:0.9178 Freq:49.99Hz		
UTHDi:0.19% ITHDi:19.59% KDisp:0.9356 Lamp Flux:635.019x1 lm		
NAME: DL56-10-XX-02 2700K RA90 50D MAX 反光杯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	992	170
80	6184	1642
75	12065	7959
70	16896	16292
65	21436	21528
60	28180	28316
55	38462	38615
50	54792	55107
45	77016	76694

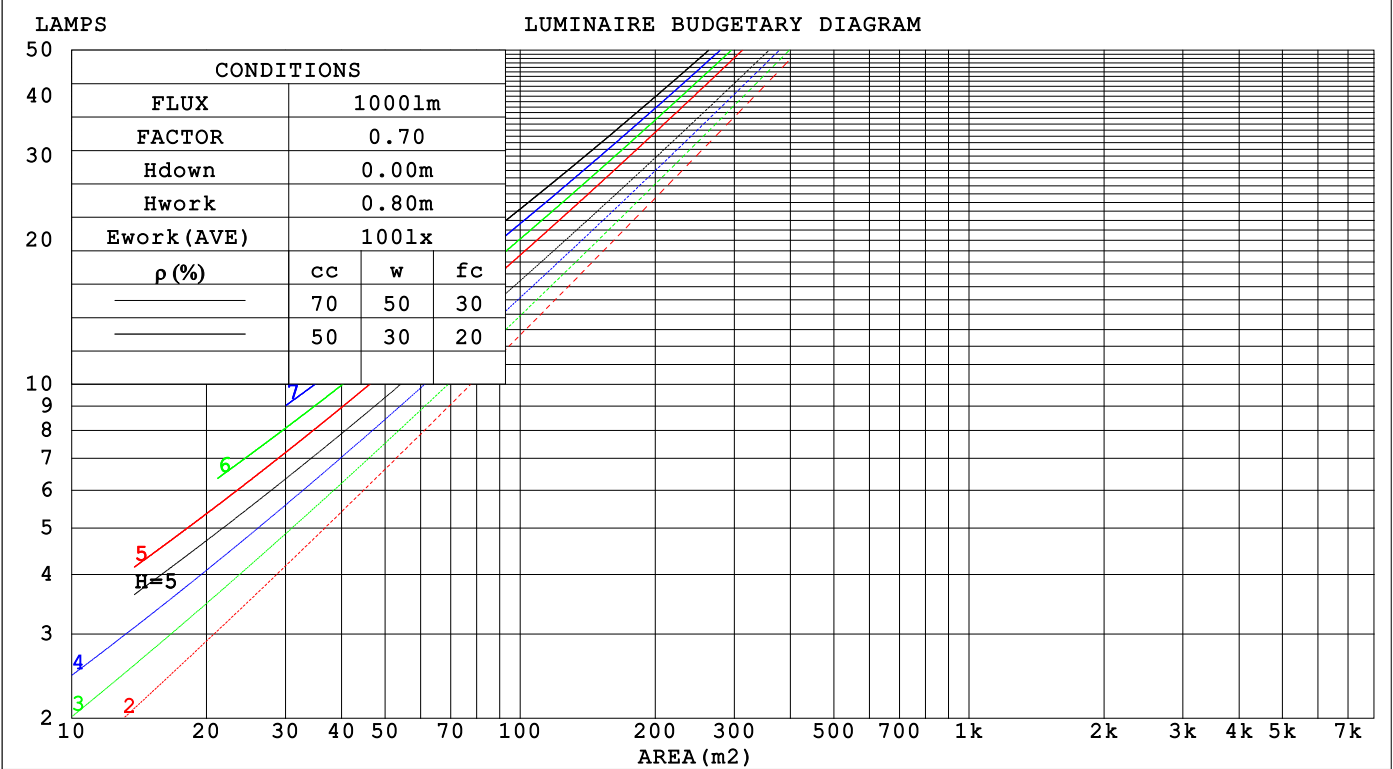
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

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:240.5V I:0.0445A P:9.8W PF:0.9178 Freq:49.99Hz		
UTHDi:0.19% ITHDi:19.59% KDisp:0.9356		
Lamp Flux:635.019x1 lm		
NAME: DL56-10-XX-02 2700K RA90 50D MAX 反光杯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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:2024-07-23

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:240.5V I:0.0445A P:9.8W PF:0.9178 Freq:49.99Hz		
UTHDi:0.19% ITHDi:19.59% KDisp:0.9356 Lamp Flux:635.019x1 lm		
NAME: DL56-10-XX-02 2700K RA90 50D MAX 反光杯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	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	.191	.108	.034	.184	.105	.033	.171	.098	.031	.160	.092	.030	.149	.086	.028															
2.0	.184	.101	.031	.178	.098	.030	.167	.093	.029	.157	.088	.028	.148	.084	.026															
3.0	.175	.093	.028	.170	.091	.027	.161	.087	.026	.152	.083	.026	.144	.080	.025															
4.0	.166	.086	.025	.162	.085	.025	.154	.082	.024	.147	.079	.024	.140	.076	.023															
5.0	.158	.080	.023	.154	.079	.023	.147	.077	.023	.141	.074	.022	.135	.072	.022															
6.0	.150	.075	.022	.147	.074	.021	.141	.072	.021	.135	.070	.021	.129	.068	.020															
7.0	.143	.071	.020	.140	.070	.020	.134	.068	.020	.129	.066	.019	.125	.065	.019															
8.0	.136	.067	.019	.134	.066	.019	.129	.064	.018	.124	.063	.018	.120	.062	.018															
9.0	.130	.063	.018	.128	.062	.017	.123	.061	.017	.119	.060	.017	.115	.059	.017															
10.0	.124	.060	.017	.122	.059	.016	.118	.058	.016	.115	.057	.016	.111	.056	.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	.172	.157	.144	.147	.135	.124	.101	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.111	.135	.114	.096	.093	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.146	.114	.088	.125	.098	.076	.086	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.136	.099	.071	.117	.086	.061	.080	.060	.043	.047	.035	.026	.015	.011	.008	
5.0	.128	.088	.058	.110	.076	.050	.076	.053	.036	.044	.031	.021	.014	.010	.007	
6.0	.121	.079	.048	.104	.068	.042	.072	.048	.030	.042	.028	.018	.013	.009	.006	
7.0	.114	.071	.041	.098	.062	.036	.068	.043	.025	.039	.025	.015	.013	.008	.005	
8.0	.109	.065	.035	.093	.056	.031	.065	.040	.022	.038	.023	.013	.012	.008	.004	
9.0	.103	.060	.030	.089	.052	.027	.062	.036	.019	.036	.022	.011	.012	.007	.004	
10.0	.099	.055	.027	.085	.048	.023	.059	.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:2024-07-23

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:240.5V I:0.0445A P:9.8W PF:0.9178 Freq:49.99Hz										
UTHDi:0.19% ITHDi:19.59% KDisp:0.9356					Lamp Flux:635.019x1 lm					
NAME: DL56-10-XX-02 2700K RA90 50D MAX 反光杯					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: Norming lighting					SUR.: 41mm			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	23.6	24.6	23.8	24.8	25.0	23.6	24.6	23.8	24.8	25.0
3H	23.7	24.6	24.0	24.8	25.0	23.7	24.6	23.9	24.8	25.0
4H	23.7	24.6	24.0	24.8	25.0	23.7	24.5	23.9	24.8	25.0
6H	23.6	24.5	23.9	24.7	25.0	23.6	24.4	23.9	24.6	24.9
8H	23.6	24.4	23.9	24.6	24.9	23.5	24.3	23.8	24.6	24.8
12H	23.5	24.3	23.9	24.6	24.9	23.5	24.2	23.8	24.5	24.8
4H 2H	23.6	24.4	23.8	24.7	24.9	23.5	24.4	23.8	24.7	24.9
3H	23.7	24.5	24.1	24.8	25.1	23.7	24.5	24.0	24.8	25.0
4H	23.8	24.5	24.1	24.8	25.1	23.7	24.4	24.1	24.7	25.0
6H	23.7	24.3	24.1	24.7	25.0	23.6	24.2	24.0	24.6	24.9
8H	23.7	24.2	24.1	24.6	25.0	23.6	24.1	24.0	24.5	24.9
12H	23.6	24.1	24.0	24.5	24.9	23.5	24.0	23.9	24.4	24.8
8H 4H	23.7	24.2	24.1	24.6	25.0	23.6	24.2	24.0	24.5	24.9
6H	23.6	24.1	24.0	24.5	24.9	23.5	24.0	24.0	24.4	24.8
8H	23.6	24.0	24.0	24.4	24.8	23.5	23.9	23.9	24.3	24.7
12H	23.5	23.9	24.0	24.3	24.8	23.4	23.8	23.9	24.2	24.7
12H 4H	23.6	24.1	24.0	24.5	24.9	23.6	24.1	24.0	24.5	24.8
6H	23.6	24.0	24.0	24.4	24.8	23.5	23.9	23.9	24.3	24.7
8H	23.5	23.9	24.0	24.3	24.8	23.4	23.8	23.9	24.2	24.7
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.7 / - 2.8					+ 1.7 / - 2.9				
1.5H	+ 2.6 / - 2.1					+ 2.5 / - 2.1				
2.0H	+ 2.9 / - 2.6					+ 2.9 / - 2.7				

CIE Pub.117, 635.0 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = -1.6$)
Area: 0.0013 m²

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

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:240.5V I:0.0445A P:9.8W PF:0.9178 Freq:49.99Hz		
UTHDi:0.19% ITHDi:19.59% KDisp:0.9356 Lamp Flux:635.019x1 lm		
NAME: DL56-10-XX-02 2700K RA90 50D MAX 反光杯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

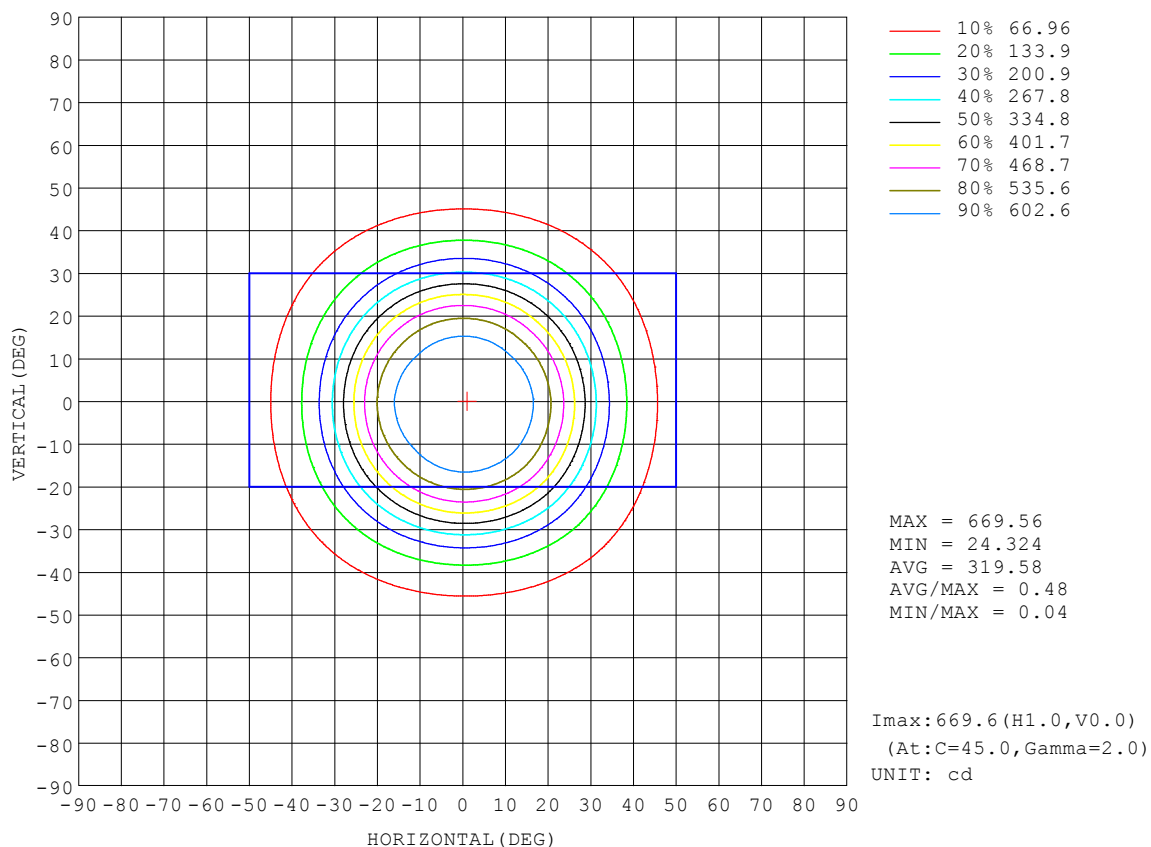
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	82	75	70	81	74	70	80	74	70	66
0.80	90	83	79	89	83	79	88	82	78	74
1.00	96	89	85	95	89	85	93	89	84	80
1.25	100	94	90	99	94	90	97	92	89	84
1.50	103	98	94	102	97	93	100	96	92	87
2.00	107	102	98	105	101	98	102	99	96	91
2.50	109	104	101	107	103	100	104	101	98	92
3.00	111	107	104	109	105	102	105	103	100	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	109	112	110	108	108	106	105	97
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: 2024-07-23

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:240.5V I:0.0445A P:9.8W PF:0.9178 Freq:49.99Hz		
UTHDi:0.19% ITHDi:19.59% KDisp:0.9356 Lamp Flux:635.019x1 lm		
NAME: DL56-10-XX-02 2700K RA90 50D MAX 反光杯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

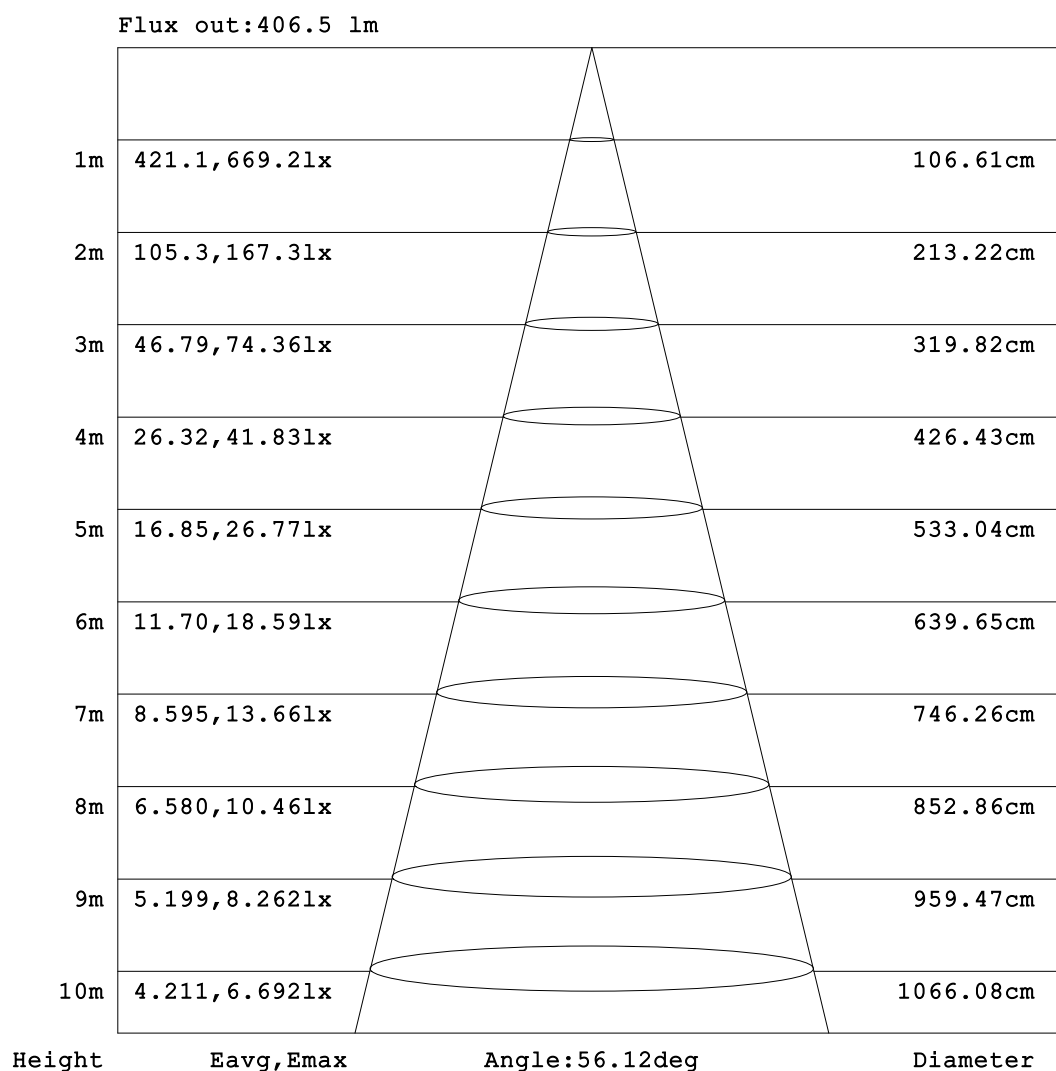


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

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:240.5V I:0.0445A P:9.8W PF:0.9178 Freq:49.99Hz		
UTHDi:0.19% ITHDi:19.59% KDisp:0.9356 Lamp Flux:635.019x1 lm		
NAME: DL56-10-XX-02 2700K RA90 50D MAX 反光杯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:



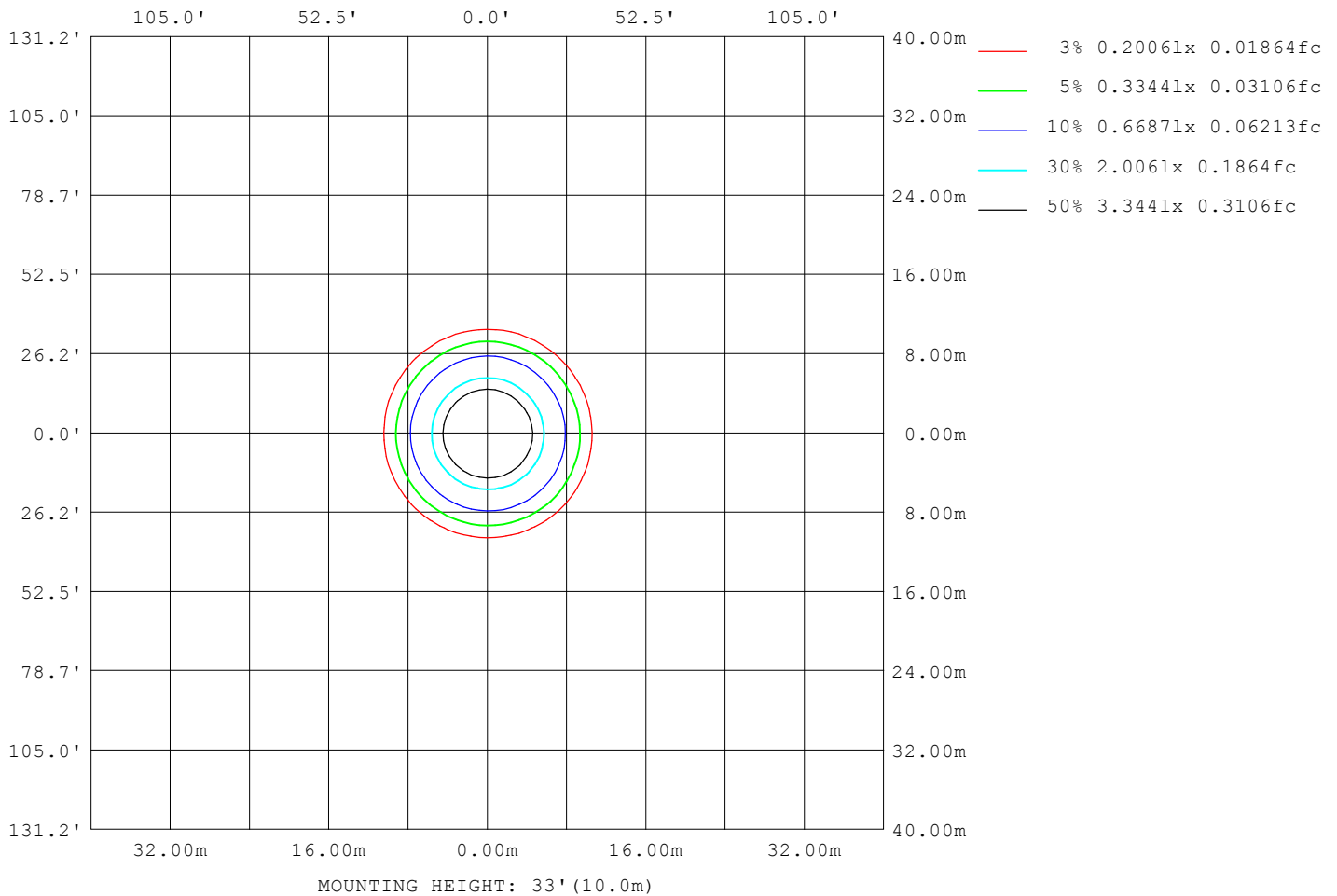
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-07-23

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:240.5V I:0.0445A P:9.8W PF:0.9178 Freq:49.99Hz		
UTHDi:0.19% ITHDi:19.59% KDisp:0.9356 Lamp Flux:635.019x1 lm		
NAME: DL56-10-XX-02 2700K RA90 50D MAX 反光杯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

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:240.5V I:0.0445A P:9.8W PF:0.9178 Freq:49.99Hz UTHDi:0.19% ITHDi:19.59% KDisp:0.9356 Lamp Flux:635.019x1 lm		
NAME: DL56-10-XX-02 2700K RA90 50D MAX 反光杯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

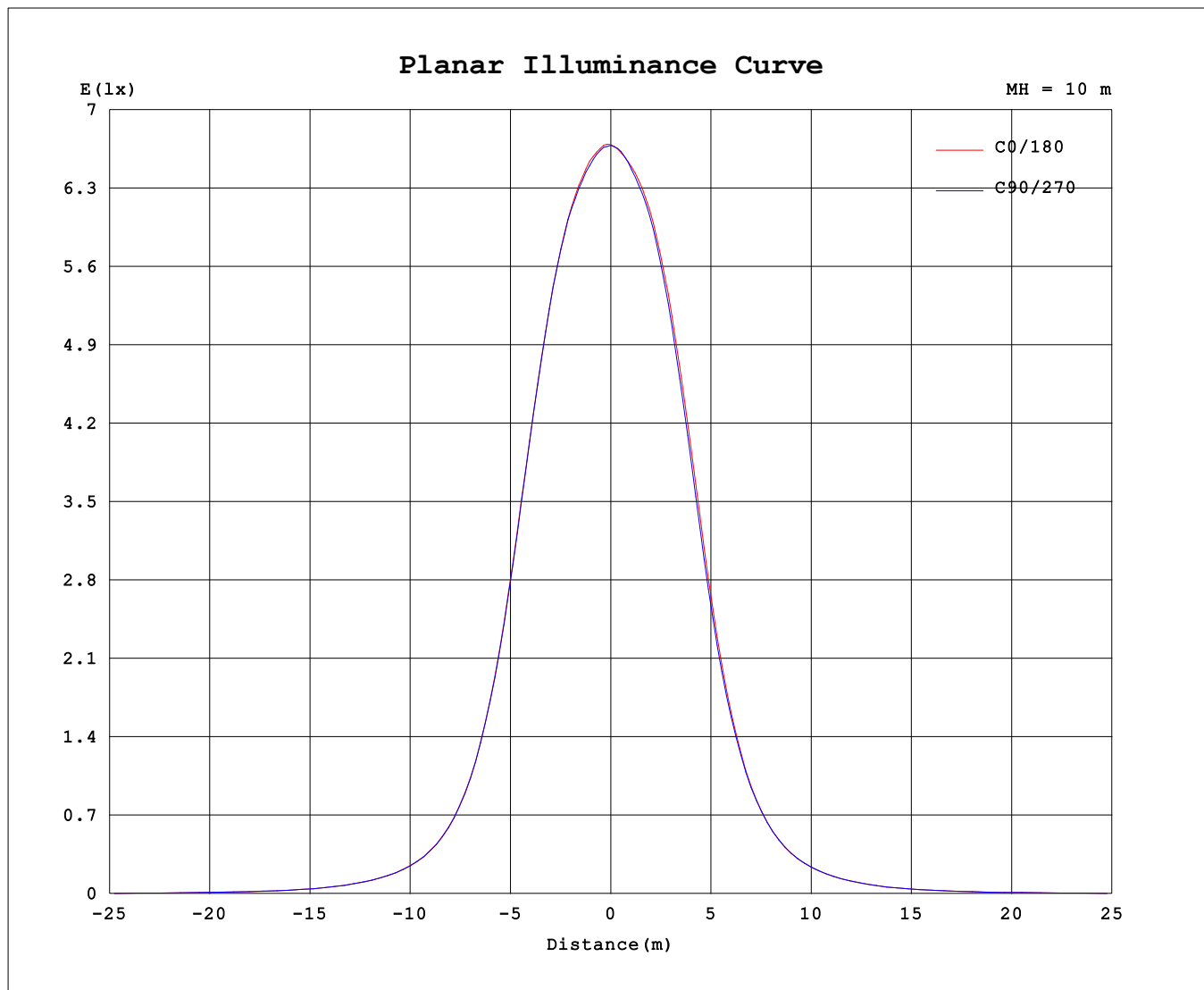
AvgL	cd/m2
L_0~180 (65) av	20867
L_0~180 (75) av	11594
L_0~180 (85) av	879
L_90~270 (65) av	20952
L_90~270 (75) av	7863
L_90~270 (85) av	169
L_45 (65) av	20933
L_45 (75) av	10315
L_45 (85) av	61

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-23

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: 2024-07-23

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	667.8	667.8	667.8	667.8	667.8	667.8	667.8	667.8
3.0	667.4	668.9	666.0	664.2	663.4	663.9	664.9	666.8
6.0	664.2	664.5	660.5	659.4	658.6	656.9	656.7	660.4
9.0	655.4	657.6	653.1	651.2	652.1	647.7	647.8	649.0
12.0	642.7	644.8	642.3	637.1	638.7	631.1	633.2	634.3
15.0	619.5	623.0	620.4	613.0	613.2	603.7	605.4	608.4
18.0	582.7	586.4	582.6	575.5	572.9	562.5	562.1	567.6
21.0	528.5	535.4	527.7	518.9	515.3	504.1	502.3	508.7
24.0	460.2	468.7	458.1	449.4	441.8	430.8	427.8	436.2
27.0	380.0	389.3	378.1	369.0	359.1	349.5	347.8	356.9
30.0	299.7	309.0	297.7	290.5	280.6	272.9	272.8	281.0
33.0	228.4	236.2	227.9	222.2	213.2	206.9	209.8	214.3
36.0	170.4	177.3	169.1	165.3	158.3	155.6	157.5	161.6
39.0	126.2	131.5	125.3	121.9	117.9	116.1	118.0	120.4
42.0	94.22	97.30	93.43	90.94	87.69	87.04	88.12	90.23
45.0	70.70	73.11	70.46	68.91	66.70	66.45	67.24	68.07
48.0	54.36	56.20	54.60	53.54	51.82	51.46	52.09	52.62
51.0	41.93	43.19	42.19	41.37	40.02	39.65	40.13	40.63
54.0	31.63	32.49	31.81	31.05	30.08	29.66	30.10	30.71
57.0	23.80	24.48	23.96	23.40	22.67	22.35	22.68	23.12
60.0	18.29	18.91	18.40	18.01	17.43	17.18	17.49	17.83
63.0	14.02	14.46	14.07	13.70	13.29	13.07	13.34	13.55
66.0	10.76	11.13	10.85	10.58	10.26	10.13	10.27	10.47
69.0	8.268	8.542	8.219	8.116	7.832	7.705	7.816	7.942
72.0	6.063	6.098	5.290	5.880	5.707	5.545	5.206	5.754
75.0	4.054	3.549	2.676	3.554	3.748	3.274	2.615	3.504
78.0	2.292	1.499	0.9855	1.555	2.061	1.371	0.9291	1.492
81.0	1.027	0.3560	0.1494	0.4011	0.8734	0.2991	0.1337	0.3551
84.0	0.2538	0.0199	0.0258	0.0228	0.1573	0.0179	0.0237	0.0211
87.0	0.0209	0.0048	0.0167	0.0045	0.0195	0.0068	0.0167	0.0055
90.0	0.0128	0.0080	0.0090	0.0064	0.0109	0.0077	0.0074	0.0077

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-07-23

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: