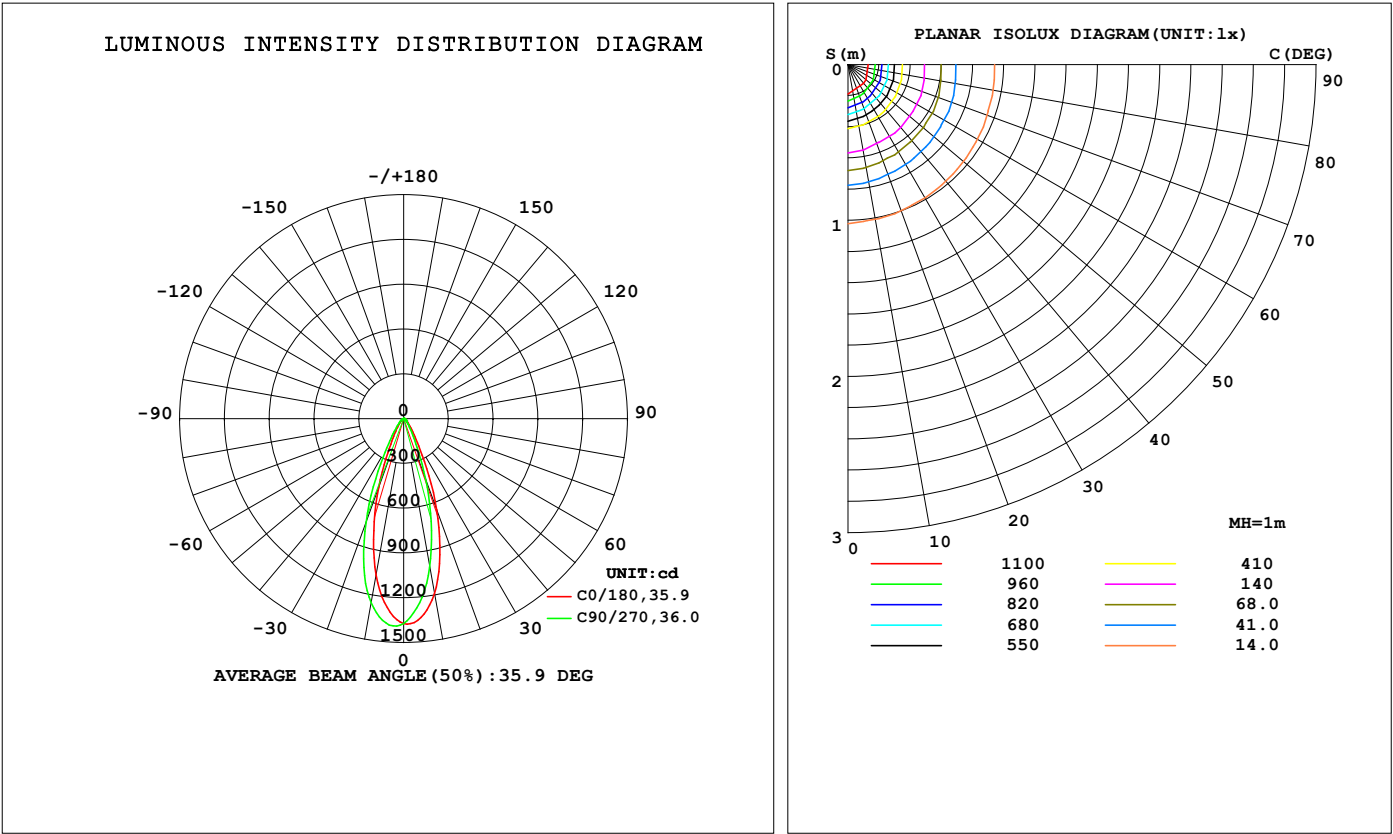


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.4V I:0.0444A P:9.8W PF:0.9172 Freq:49.99Hz		
UTHDi:0.17% ITHDi:19.68% KDisp:0.9353 Lamp Flux:628.585x1 lm		
NAME: DL56-10-XX-01 2700K RA98 36D MAX DX	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 64.15 lm/W
MODEL		I _{max} (cd)	1391	S/MH(C0/180)	0.55	
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.65	
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	628.58	η UP,DN(C0-180)	0.0,45.2	
NOMINAL FLUX(lm)	628.585	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,54.8	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	240.38	η down (%)	100.0	CIBSE SHR MAX	0.60	



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-19

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	1191	1090	1010	1005	1064	1170	1254	1262	0- 10	119.0	119.0	18.9,18.9
20	648.4	525.0	434.4	429.8	493.8	620.3	738.4	750.0	10- 20	236.4	355.4	56.5,56.5
30	186.0	144.6	118.0	117.2	136.1	175.7	229.2	227.4	20- 30	151.2	506.6	80.6,80.6
40	64.48	52.52	45.43	45.43	51.29	62.34	73.65	74.92	30- 40	62.09	568.7	90.5,90.5
50	28.91	24.67	21.92	21.99	24.37	28.82	32.61	32.58	40- 50	30.80	599.5	95.4,95.4
60	14.11	11.95	10.63	10.68	11.76	14.10	15.97	15.89	50- 60	17.20	616.7	98.1,98.1
70	6.380	5.163	4.276	4.194	4.882	6.037	6.263	7.150	60- 70	8.978	625.6	99.5,99.5
80	1.441	0.3287	0.1372	0.2544	0.6716	0.4774	0.3314	0.7084	70- 80	2.834	628.5	100,100
90	0.0083	0.0071	0.0129	0.0068	0.0109	0.0022	0.0084	0.0061	80- 90	0.1164	628.6	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): 586.34 lm

%lum = 93.3%

%lamp = 93.3%

Conical surface Flux(120deg): 616.66 lm

%lum = 98.1%

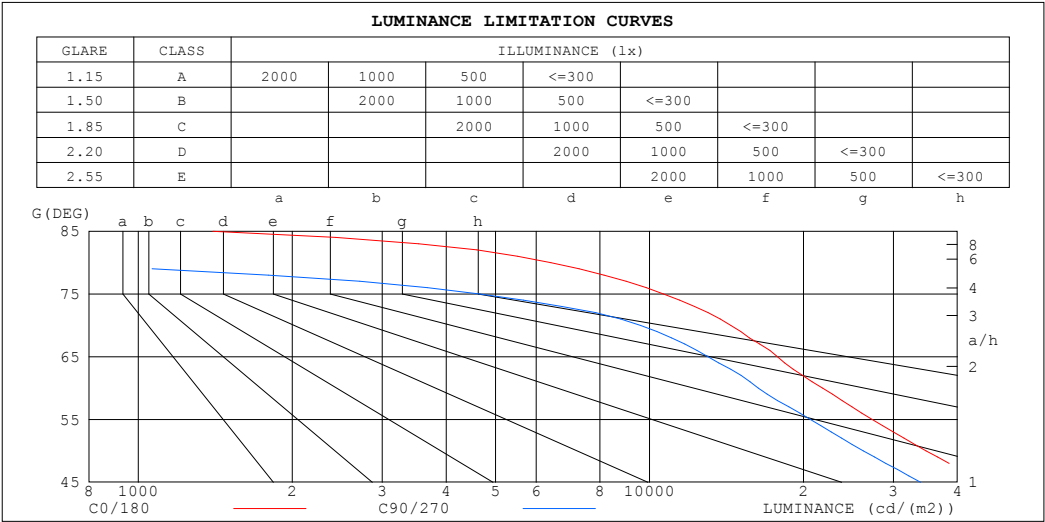
%lamp = 98.1%

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-19

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:0.0444A P:9.8W PF:0.9172 Freq:49.99Hz		
UTHDi:0.17% ITHDi:19.68% KDisp:0.9353 Lamp Flux:628.585x1 lm		
NAME: DL56-10-XX-01 2700K RA98 36D MAX DX	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1398	315
80	6415	607
75	10652	4666
70	14419	9601
65	17808	13012
60	21813	16327
55	27262	20649
50	34760	26192
45	45833	33895

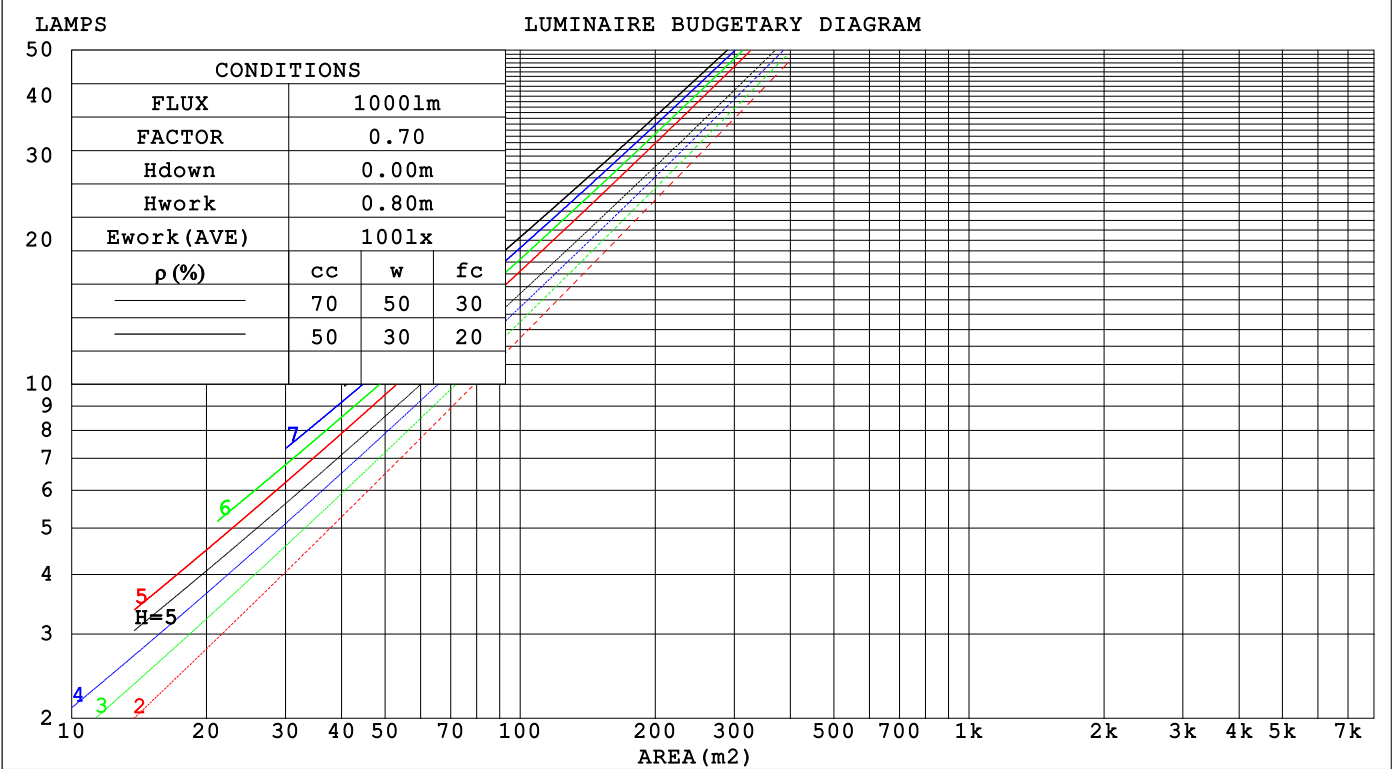
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-19

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:0.0444A P:9.8W PF:0.9172 Freq:49.99Hz		
UTHDi:0.17% ITHDi:19.68% KDisp:0.9353		
Lamp Flux:628.585x1 lm		
NAME: DL56-10-XX-01 2700K RA98 36D MAX DX	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															



C Range: 0 - 360DEG

C Interval: 45.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:DAMIN

Test Date:2024-07-19

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:0.0444A P:9.8W PF:0.9172 Freq:49.99Hz		
UTHDi:0.17% ITHDi:19.68% KDisp:0.9353 Lamp Flux:628.585x1 lm		
NAME: DL56-10-XX-01 2700K RA98 36D MAX DX	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	.169	.096	.030	.162	.092	.029	.149	.086	.027	.138	.080	.026	.127	.074	.024															
2.0	.160	.088	.027	.155	.085	.026	.144	.080	.025	.134	.075	.024	.125	.071	.022															
3.0	.151	.081	.024	.147	.078	.024	.138	.075	.023	.129	.071	.022	.122	.067	.021															
4.0	.143	.074	.022	.139	.073	.021	.131	.070	.021	.124	.067	.020	.118	.064	.019															
5.0	.135	.069	.020	.132	.068	.020	.125	.065	.019	.119	.063	.019	.113	.061	.018															
6.0	.128	.064	.018	.125	.063	.018	.119	.061	.018	.114	.059	.017	.109	.057	.017															
7.0	.122	.060	.017	.119	.059	.017	.114	.058	.017	.109	.056	.016	.105	.055	.016															
8.0	.116	.057	.016	.114	.056	.016	.109	.055	.016	.105	.053	.015	.101	.052	.015															
9.0	.111	.054	.015	.109	.053	.015	.105	.052	.015	.101	.051	.015	.098	.050	.014															
10.0	.106	.051	.014	.104	.050	.014	.101	.049	.014	.097	.048	.014	.094	.047	.014															

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	.146	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.155	.133	.114	.132	.114	.098	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.142	.113	.091	.121	.098	.079	.083	.068	.055	.048	.040	.033	.015	.013	.011	
4.0	.131	.099	.074	.112	.085	.064	.077	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.121	.087	.061	.104	.075	.053	.072	.052	.038	.042	.031	.022	.013	.010	.007	
6.0	.113	.077	.051	.097	.067	.045	.067	.047	.032	.039	.028	.019	.013	.009	.006	
7.0	.106	.070	.044	.092	.060	.038	.063	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.100	.063	.038	.086	.055	.033	.060	.038	.023	.035	.023	.014	.011	.007	.005	
9.0	.095	.058	.033	.082	.050	.028	.057	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.090	.053	.029	.078	.046	.025	.054	.033	.018	.031	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-19

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:0.0444A P:9.8W PF:0.9172 Freq:49.99Hz										
UTHDi:0.17% ITHDi:19.68% KDisp:0.9353					Lamp Flux:628.585x1 lm					
NAME: DL56-10-XX-01 2700K RA98 36D MAX DX					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	19.8	20.6	20.0	20.8	21.0	18.4	19.3	18.7	19.5	19.6
3H	20.1	20.9	20.4	21.1	21.3	18.7	19.5	19.0	19.7	19.9
4H	20.2	21.0	20.5	21.2	21.4	18.7	19.5	19.0	19.7	19.9
6H	20.2	20.9	20.5	21.2	21.4	18.6	19.4	18.9	19.6	19.8
8H	20.2	20.9	20.5	21.1	21.4	18.6	19.3	18.9	19.5	19.8
12H	20.1	20.8	20.5	21.1	21.3	18.6	19.2	18.9	19.5	19.8
4H 2H	19.8	20.6	20.1	20.8	21.0	18.6	19.4	18.9	19.6	19.8
3H	20.3	20.9	20.6	21.2	21.5	19.0	19.7	19.3	19.9	20.2
4H	20.4	21.0	20.7	21.3	21.6	19.0	19.6	19.4	19.9	20.2
6H	20.4	20.9	20.8	21.3	21.6	18.9	19.5	19.3	19.8	20.1
8H	20.4	20.9	20.8	21.2	21.6	18.9	19.4	19.3	19.7	20.1
12H	20.3	20.8	20.7	21.1	21.5	18.8	19.3	19.2	19.7	20.0
8H 4H	20.3	20.8	20.7	21.2	21.5	19.0	19.5	19.4	19.8	20.2
6H	20.3	20.7	20.8	21.1	21.5	18.9	19.3	19.3	19.7	20.1
8H	20.3	20.6	20.7	21.1	21.5	18.8	19.2	19.3	19.6	20.0
12H	20.2	20.5	20.7	21.0	21.5	18.8	19.1	19.2	19.5	20.0
12H 4H	20.3	20.7	20.7	21.1	21.5	18.9	19.4	19.3	19.7	20.1
6H	20.3	20.6	20.7	21.0	21.5	18.8	19.2	19.3	19.6	20.0
8H	20.2	20.5	20.7	21.0	21.5	18.8	19.1	19.2	19.5	20.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.5 / - 1.6					+ 1.2 / - 1.8				
1.5H	+ 2.4 / - 1.3					+ 1.4 / - 1.2				
2.0H	+ 2.3 / - 1.8					+ 1.9 / - 1.6				

CIE Pub.117, 628.6 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:2024-07-19

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:0.0444A P:9.8W PF:0.9172 Freq:49.99Hz		
UTHDi:0.17% ITHDi:19.68% KDisp:0.9353 Lamp Flux:628.585x1 lm		
NAME: DL56-10-XX-01 2700K RA98 36D MAX DX	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

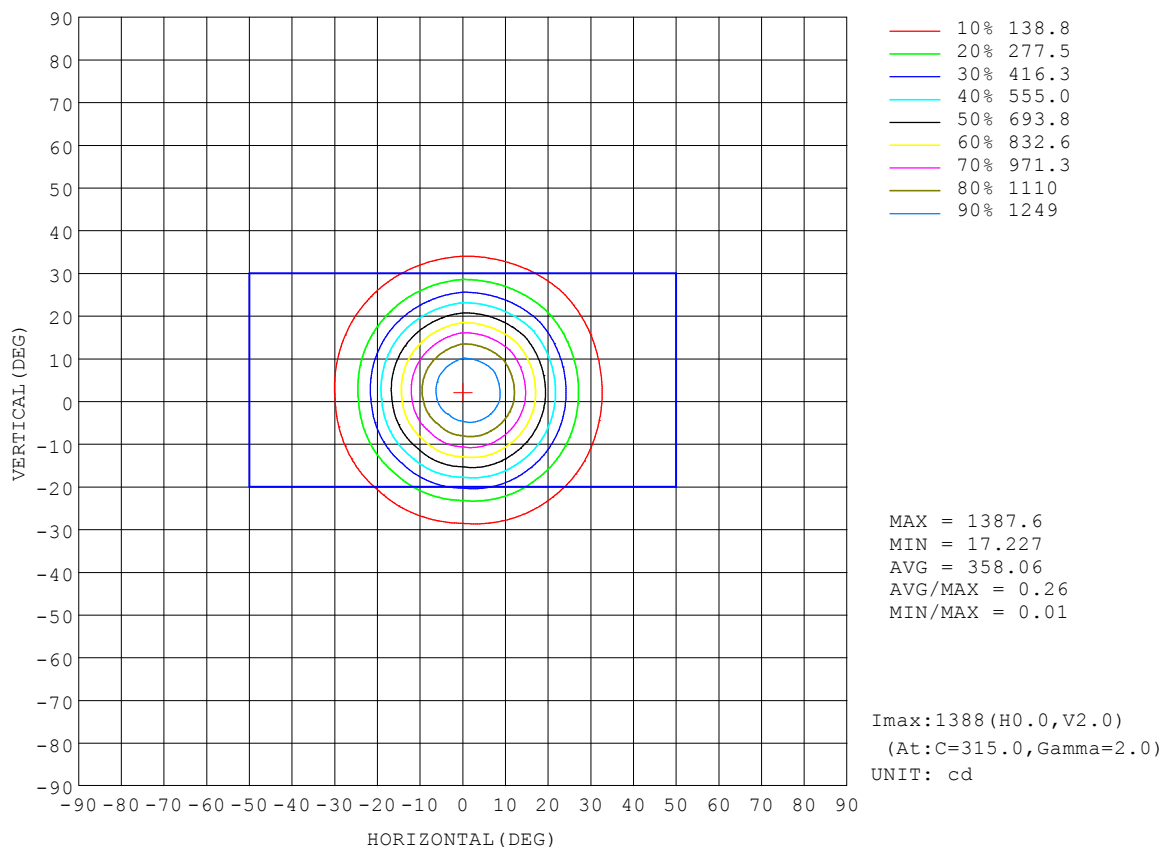
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	86	79	75	85	79	75	84	78	75	71
0.80	93	87	83	92	87	83	91	86	83	79
1.00	98	92	88	97	92	88	95	91	87	83
1.25	102	97	93	101	96	93	99	95	92	87
1.50	105	100	96	104	99	96	101	98	95	90
2.00	108	103	100	106	102	99	104	100	98	93
2.50	110	106	103	108	104	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: 2024-07-19

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:240.4V I:0.0444A P:9.8W PF:0.9172 Freq:49.99Hz		
UTHDi:0.17% ITHDi:19.68% KDisp:0.9353 Lamp Flux:628.585x1 lm		
NAME: DL56-10-XX-01 2700K RA98 36D MAX DX	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

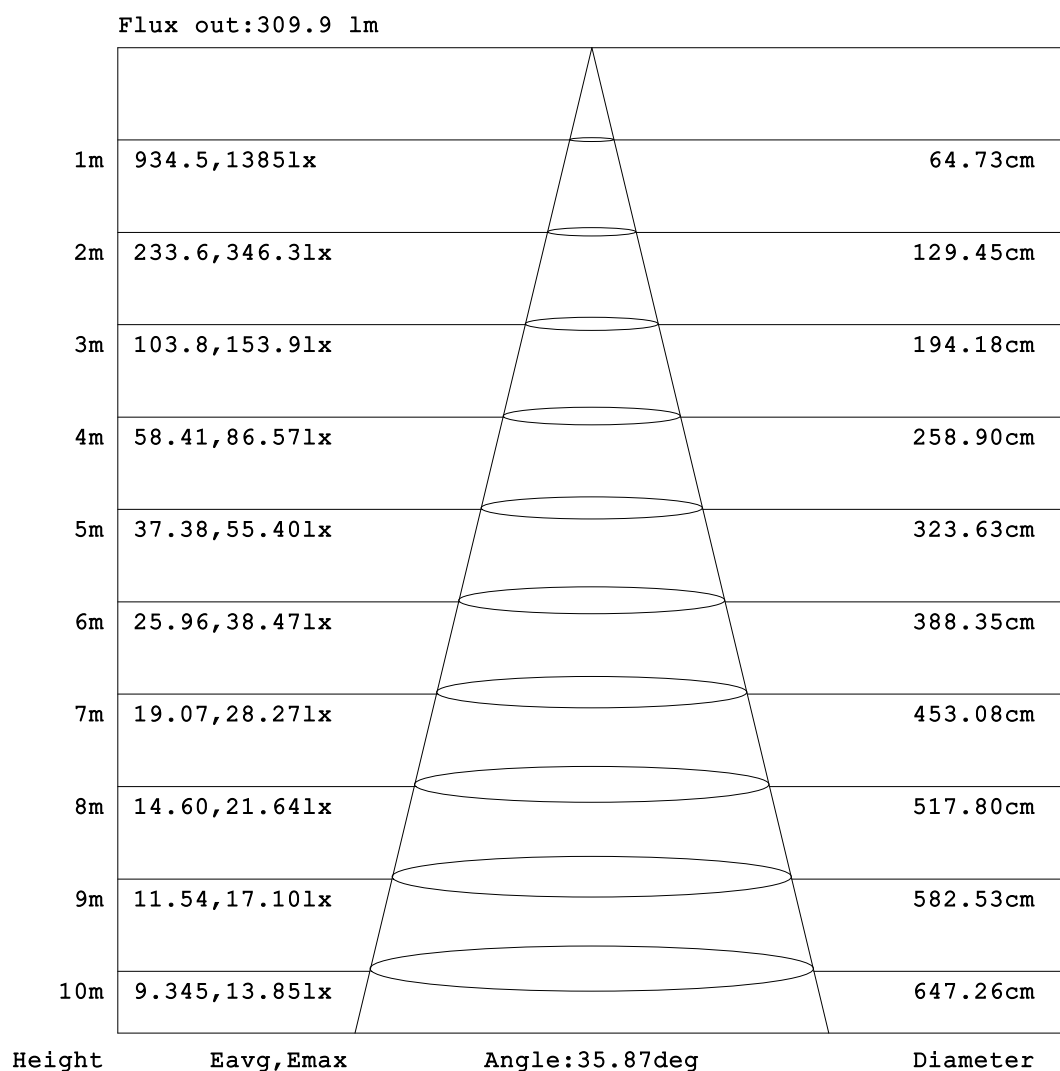


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-19

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:0.0444A P:9.8W PF:0.9172 Freq:49.99Hz		
UTHDi:0.17% ITHDi:19.68% KDisp:0.9353 Lamp Flux:628.585x1 lm		
NAME: DL56-10-XX-01 2700K RA98 36D MAX DX	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:



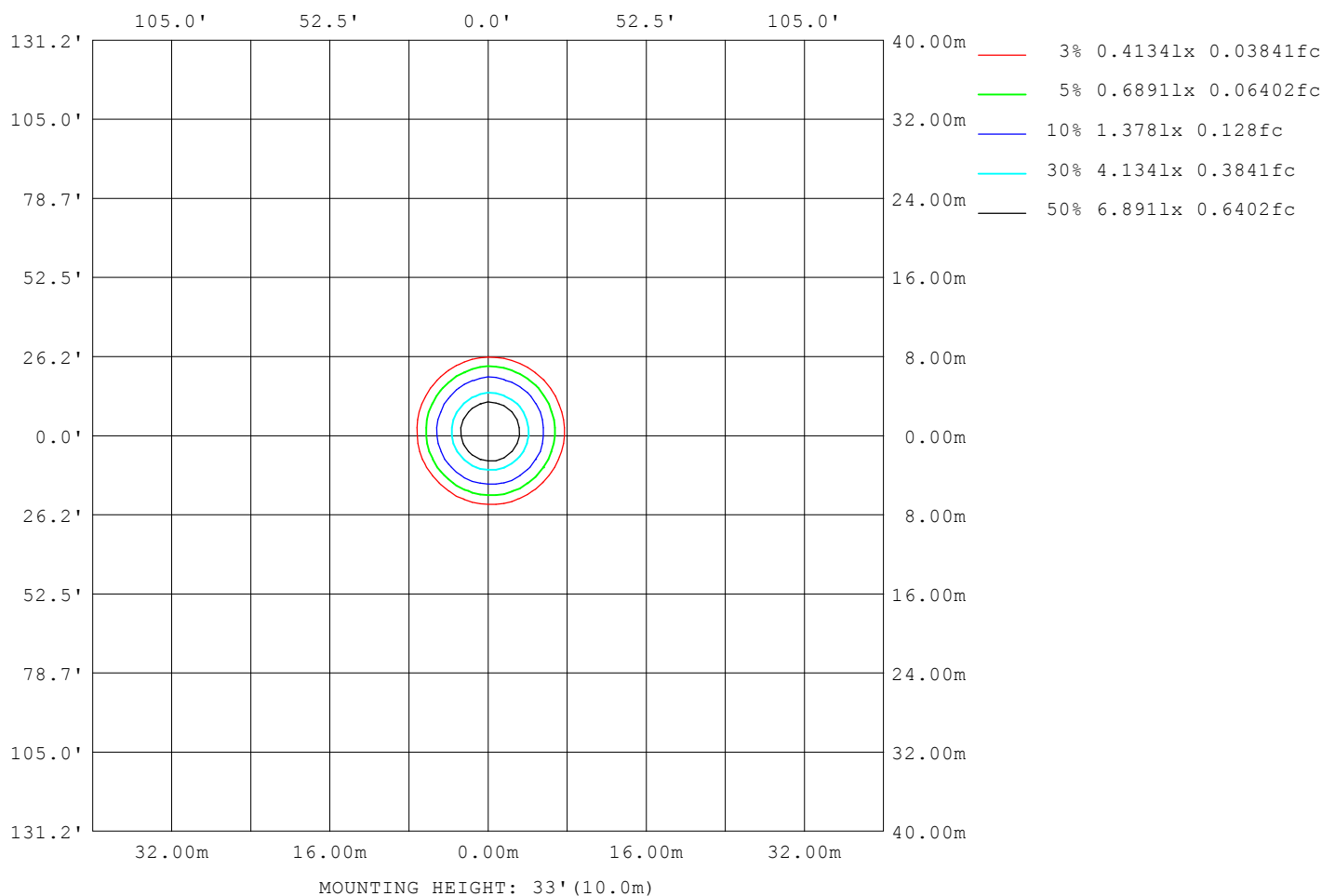
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-19

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:0.0444A P:9.8W PF:0.9172 Freq:49.99Hz		
UTHDi:0.17% ITHDi:19.68% KDisp:0.9353 Lamp Flux:628.585x1 lm		
NAME: DL56-10-XX-01 2700K RA98 36D MAX DX	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: 2024-07-19

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:0.0444A P:9.8W PF:0.9172 Freq:49.99Hz UTHDi:0.17% ITHDi:19.68% KDisp:0.9353 Lamp Flux:628.585x1 lm		
NAME: DL56-10-XX-01 2700K RA98 36D MAX DX	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Norming lighting	SUR.: 41mm	Shielding Angle:

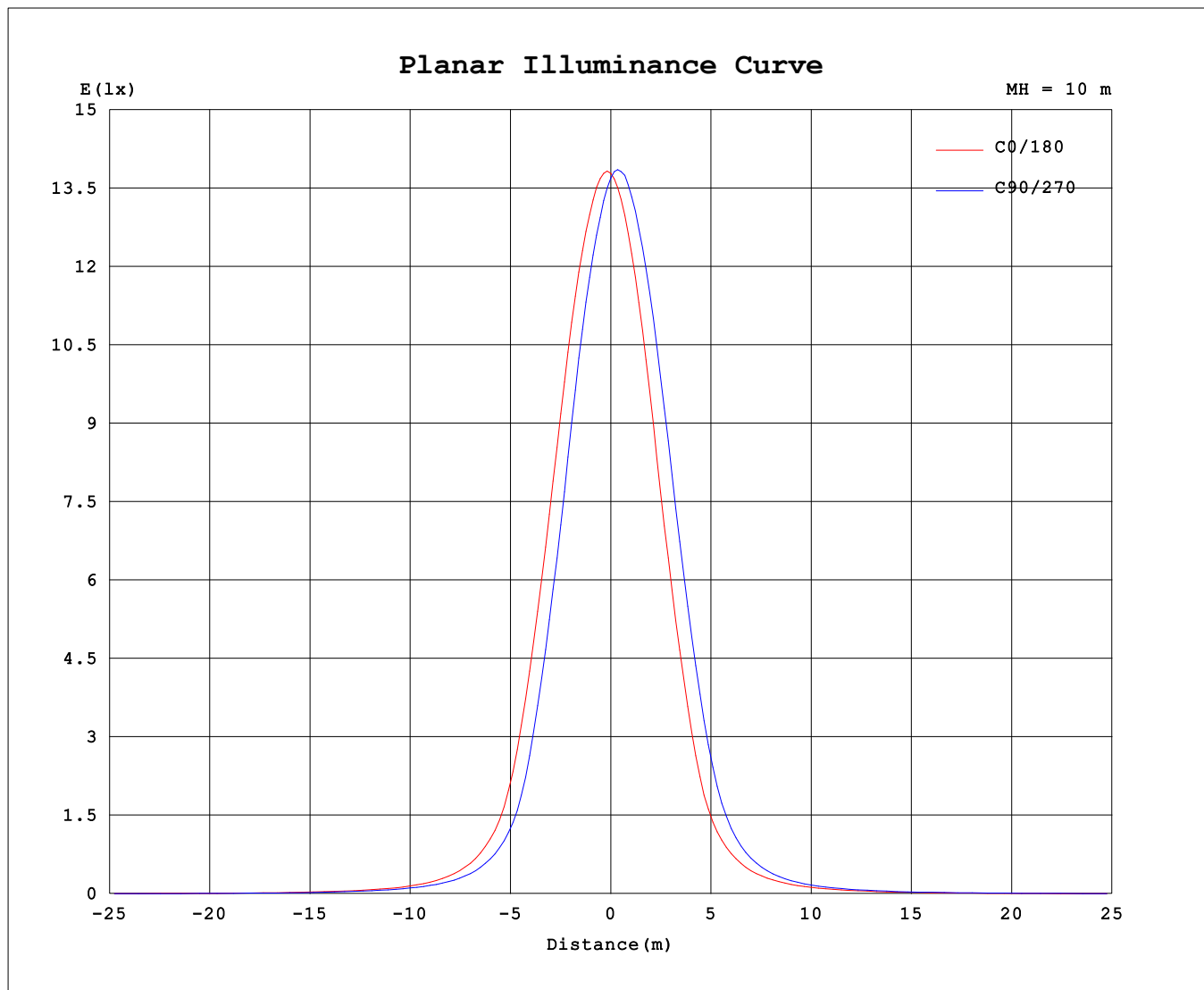
AvgL	cd/m2
L_0~180 (65) av	16131
L_0~180 (75) av	8758
L_0~180 (85) av	884
L_90~270 (65) av	16483
L_90~270 (75) av	5938
L_90~270 (85) av	191
L_45 (65) av	16361
L_45 (75) av	7556
L_45 (85) av	74

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-07-19

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: 2024-07-19

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	1371	1371	1371	1371	1371	1371	1371	1371
3.0	1367	1331	1301	1303	1327	1361	1389	1390
6.0	1315	1251	1201	1199	1239	1303	1358	1361
9.0	1228	1136	1065	1058	1113	1211	1285	1292
12.0	1102	985.9	893.8	886.6	955.1	1077	1177	1188
15.0	943.7	811.5	714.0	709.1	776.8	910.5	1033	1043
18.0	767.7	637.4	543.6	540.3	604.0	735.7	858.6	869.4
21.0	590.0	471.2	382.3	376.0	438.0	562.5	677.3	690.3
24.0	420.8	317.6	247.6	240.1	291.5	395.6	501.7	512.8
27.0	278.0	209.7	166.5	163.9	193.1	258.8	343.0	349.1
30.0	186.0	144.6	118.0	117.2	136.1	175.7	229.2	227.4
33.0	131.9	103.7	86.08	85.31	98.11	124.9	156.0	157.5
36.0	96.02	76.13	64.38	64.13	72.75	91.47	111.1	112.2
39.0	70.94	57.42	49.27	49.34	55.83	68.28	81.18	82.64
42.0	53.70	44.53	38.90	38.94	43.59	52.53	61.29	62.05
45.0	41.93	35.33	31.21	31.27	34.79	41.44	47.57	47.80
48.0	33.39	28.43	25.24	25.28	28.06	33.17	37.77	37.80
51.0	26.92	23.03	20.42	20.54	22.67	26.82	30.37	30.37
54.0	21.71	18.58	16.56	16.65	18.40	21.67	24.59	24.45
57.0	17.52	14.99	13.28	13.37	14.79	17.54	19.90	19.72
60.0	14.11	11.95	10.63	10.68	11.76	14.10	15.97	15.89
63.0	11.22	9.630	8.525	8.469	9.477	11.25	12.73	12.68
66.0	9.044	7.525	6.559	6.500	7.328	8.939	10.09	10.19
69.0	6.988	5.735	4.824	4.748	5.457	6.748	7.177	7.895
72.0	5.202	4.041	3.156	3.166	3.803	4.593	4.525	5.597
75.0	3.567	2.352	1.572	1.825	2.327	2.643	2.423	3.349
78.0	2.192	0.9846	0.4866	0.7691	1.245	1.177	0.9506	1.607
81.0	1.117	0.1275	0.0857	0.1100	0.4279	0.2519	0.1469	0.3974
84.0	0.3287	0.0144	0.0409	0.0155	0.0696	0.0147	0.0186	0.0265
87.0	0.0250	0.0087	0.0245	0.0062	0.0141	0.0019	0.0109	0.0023
90.0	0.0083	0.0071	0.0129	0.0068	0.0109	0.0022	0.0084	0.0061

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-07-19

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: