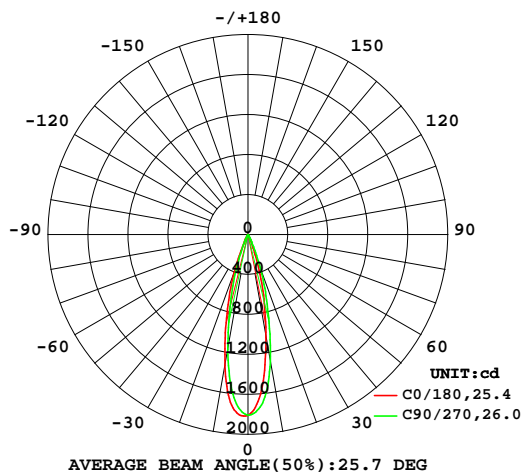


## LUMINAIRE PHOTOMETRIC TEST REPORT

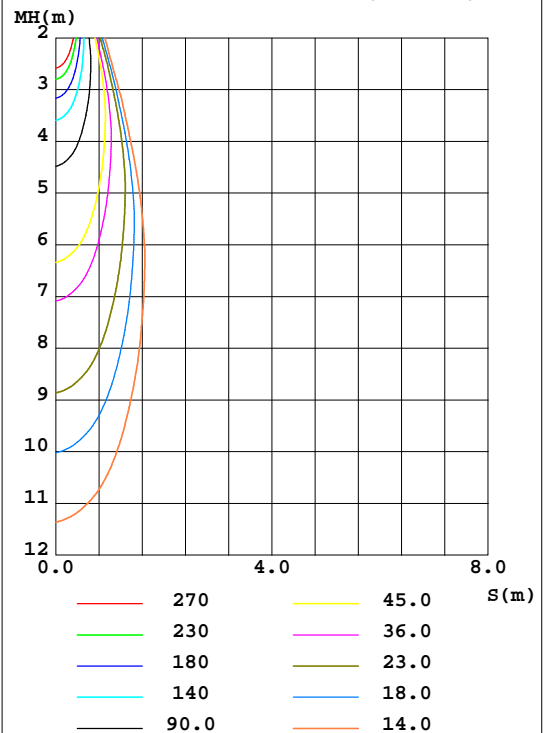
Test:U:230.98V I:0.0367A P:8.0301W PF:0.9485 Freq:49.99Hz Lamp Flux:414.462x1 lm		
NAME: 5RS425 Ushape反光杯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 51.61 lm/W			
MODEL	4000K	Imax(cd)	1817	S/MH(C0/180)	0.47
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	0.42
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	414.46	h UP,DN(C0-180)	0.0,52.3
NOMINAL FLUX(lm)	414.462	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,47.7
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	230V	h down(%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: will  
Test Date: 21 October 2024

g Range: 0 - 90DEG  
Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity: 65.0%  
Test Distance: 8.989m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

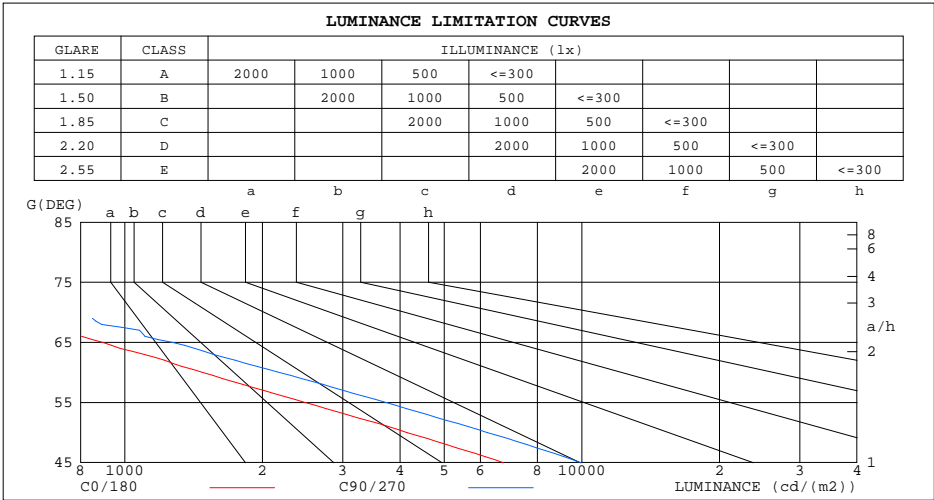
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
5	1567	1638	1690	1729	1739	1695	1637	1598	0- 5	41.50	41.50	10,10
10	1045	1196	1294	1338	1331	1259	1167	1101	5- 10	102.7	144.2	34.8,34.8
15	587.5	692.6	765.7	811.4	815.5	746.2	661.4	614.4	10- 15	111.5	255.7	61.7,61.7
20	214.6	318.3	384.6	412.4	404.6	353.0	289.6	247.1	15- 20	83.14	338.8	81.8,81.8
25	67.88	103.6	124.2	127.8	120.4	106.2	89.78	77.74	20- 25	40.49	379.3	91.5,91.5
30	25.20	42.13	52.14	54.64	51.40	42.29	32.37	27.30	25- 30	17.05	396.4	95.6,95.6
35	14.40	17.77	19.59	19.58	18.56	17.08	15.58	14.76	30- 35	7.225	403.6	97.4,97.4
40	7.382	10.48	12.19	12.31	11.46	10.02	8.526	7.731	35- 40	4.548	408.1	98.5,98.5
45	4.071	5.323	6.016	6.064	5.724	5.151	4.554	4.227	40- 45	2.636	410.8	99.1,99.1
50	2.279	2.987	3.418	3.561	3.448	3.008	2.533	2.323	45- 50	1.604	412.4	99.5,99.5
55	1.218	1.588	1.830	1.953	1.929	1.659	1.360	1.235	50- 55	0.9597	413.3	99.7,99.7
60	0.6338	0.8071	0.9309	1.019	1.030	0.8833	0.7143	0.6446	55- 60	0.5424	413.9	99.9,99.9
65	0.3233	0.4014	0.4594	0.5050	0.5151	0.4471	0.3667	0.3319	60- 65	0.2925	414.2	99.9,99.9
70	0.1614	0.1892	0.2170	0.2536	0.2725	0.2343	0.1862	0.1661	65- 70	0.1523	414.3	100,100
75	0.0807	0.0907	0.0992	0.1077	0.1116	0.1039	0.0931	0.0862	70- 75	0.0784	414.4	100,100
80	0.0373	0.0496	0.0558	0.0542	0.0496	0.0465	0.0435	0.0404	75- 80	0.0386	414.4	100,100
85	0.0186	0.0116	0.0062	0.0023	0	0	0.0001	0.0071	80- 85	0.0139	414.5	100,100
90	0	0.0047	0.0062	0.0035	0	0	0	0	85- 90	0.0017	414.5	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 2.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:will  
 Test Date:21 October 2024

g Range: 0 - 90DEG  
 g Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
 Humidity:65.0%  
 Test Distance:8.989m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.98V I:0.0367A P:8.0301W PF:0.9485 Freq:49.99Hz Lamp Flux:414.462x1 lm		
NAME: 5RS425 Ushape反光杯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

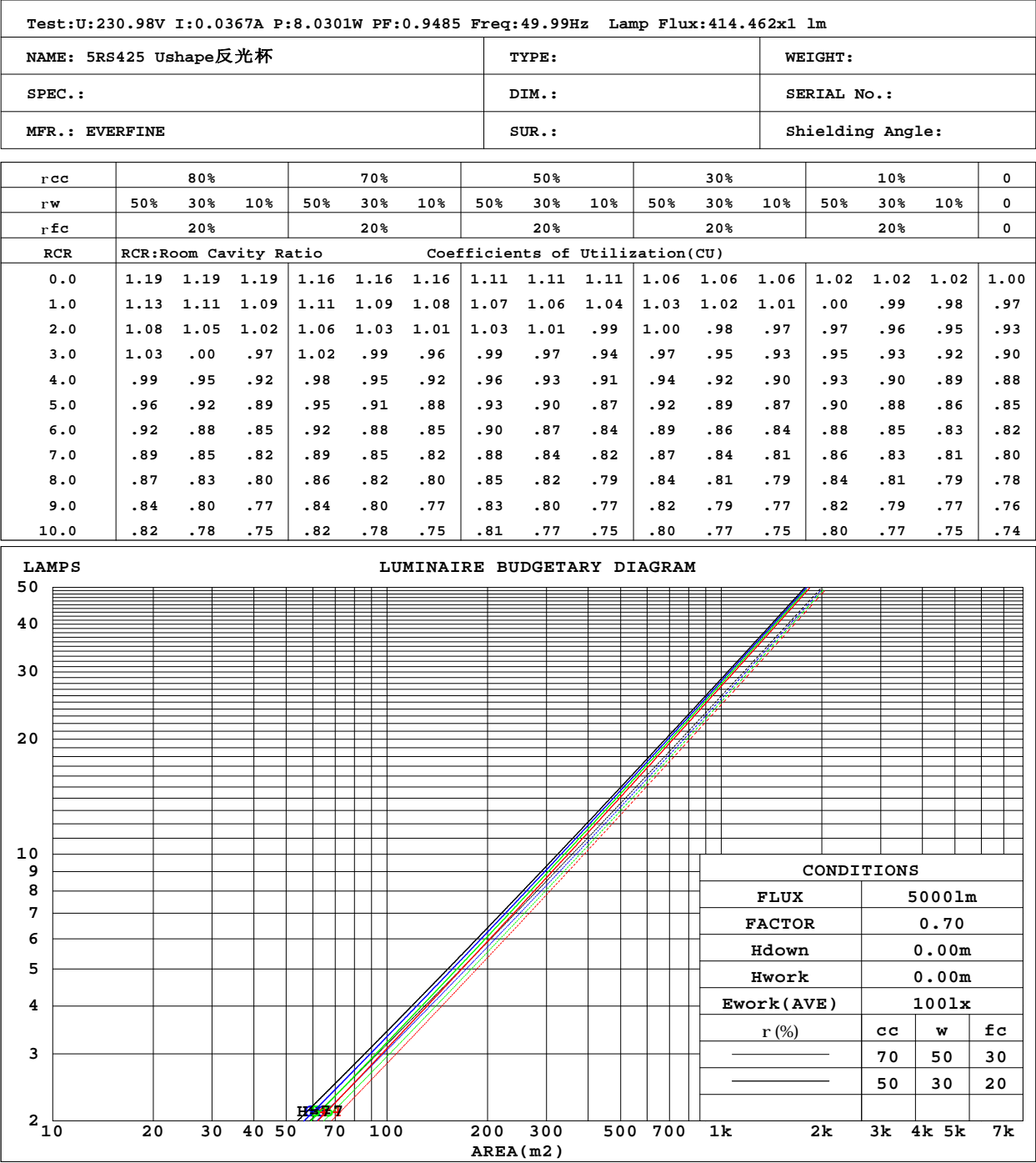


LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	250	83
80	252	376
75	365	448
70	552	742
65	895	1271
60	1483	2178
55	2483	3732
50	4148	6219
45	6734	9952

C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:will  
Test Date:21 October 2024

g Range: 0 - 90DEG  
g Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:8.989m [K=1.0000]  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:will  
Test Date:21 October 2024

g Range: 0 - 90DEG  
g Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:8.989m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:230.98V I:0.0367A P:8.0301W PF:0.9485 Freq:49.99Hz Lamp Flux:414.462x1 lm		
NAME: 5RS425 Ushape反光杯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

rcc	80%	70%	50%	30%	10%	0
rw	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
rfc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)					
0.0						
1.0	.136 .077 .025	.129 .074 .023	.117 .067 .021	.106 .061 .020	.095 .055 .018	
2.0	.126 .069 .021	.121 .066 .020	.110 .061 .019	.101 .057 .018	.092 .052 .016	
3.0	.117 .062 .019	.113 .060 .018	.104 .057 .017	.097 .053 .016	.089 .049 .015	
4.0	.110 .057 .017	.106 .056 .016	.099 .053 .016	.092 .050 .015	.086 .047 .014	
5.0	.104 .053 .015	.100 .052 .015	.094 .049 .014	.089 .047 .014	.083 .045 .013	
6.0	.098 .049 .014	.095 .048 .014	.090 .046 .013	.085 .044 .013	.081 .042 .013	
7.0	.093 .046 .013	.091 .045 .013	.086 .044 .013	.082 .042 .012	.078 .040 .012	
8.0	.089 .043 .012	.087 .043 .012	.083 .041 .012	.079 .040 .012	.075 .039 .011	
9.0	.085 .041 .011	.083 .040 .011	.080 .039 .011	.076 .038 .011	.073 .037 .011	
10.0	.081 .039 .011	.080 .039 .011	.077 .038 .011	.074 .037 .010	.071 .036 .010	

rcc	80%	70%	50%	30%	10%	0
rw	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
rfc	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	.098 .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 .041	.038 .030 .024	.012 .010 .008	
6.0	.103 .076 .056	.089 .065 .049	.061 .046 .034	.035 .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 .034 .022	.029 .020 .013	.009 .006 .004	
10.0	.078 .050 .031	.068 .044 .027	.047 .031 .019	.027 .018 .012	.009 .006 .004	

C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:will  
Test Date:21 October 2024

g Range: 0 - 90DEG  
g Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:8.989m [K=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

Test:U:230.98V I:0.0367A P:8.0301W PF:0.9485 Freq:49.99Hz Lamp Flux:414.462x1 lm											
NAME: 5RS425 Ushape反光杯					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: EVERFINE					SUR.:			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	7.9	8.6	8.1	8.7	8.9	9.4	10.0	9.6	10.2	10.3	
	3H	7.8	8.4	8.1	8.6	8.8	9.3	9.9	9.5	10.0	
	4H	7.8	8.3	8.0	8.5	8.8	9.2	9.8	9.4	10.0	
	6H	7.7	8.2	8.0	8.5	8.7	9.1	9.7	9.4	9.9	
	8H	7.6	8.2	7.9	8.4	8.7	9.1	9.6	9.4	9.8	
	12H	7.6	8.1	7.9	8.4	8.6	9.0	9.5	9.3	9.8	
4H	2H	7.8	8.4	8.1	8.6	8.8	9.2	9.8	9.5	10.0	
	3H	7.7	8.2	8.0	8.5	8.7	9.1	9.6	9.4	9.8	
	4H	7.6	8.1	7.9	8.4	8.7	9.0	9.5	9.3	9.7	
	6H	7.5	7.9	7.9	8.2	8.6	8.9	9.3	9.3	9.6	
	8H	7.5	7.8	7.8	8.2	8.5	8.8	9.2	9.2	9.6	
	12H	7.4	7.8	7.8	8.1	8.5	8.8	9.1	9.2	9.5	
8H	4H	7.5	7.8	7.8	8.2	8.5	8.8	9.2	9.2	9.6	
	6H	7.4	7.7	7.8	8.1	8.5	8.7	9.1	9.2	9.5	
	8H	7.3	7.6	7.7	8.0	8.4	8.7	9.0	9.1	9.4	
	12H	7.2	7.5	7.7	7.9	8.4	8.6	8.9	9.1	9.3	
12H	4H	7.4	7.8	7.8	8.1	8.5	8.8	9.1	9.2	9.5	
	6H	7.3	7.6	7.7	8.0	8.4	8.7	9.0	9.1	9.4	
	8H	7.2	7.5	7.7	7.9	8.4	8.6	8.9	9.1	9.3	
Variations with the observer position at spacings:											
S = 1.0H	+ 2.5 / - 7.0					+ 2.8 / - 6.6					
1.5H	+ 3.8 / - 4.5					+ 4.4 / - 5.1					
2.0H	+ 4.3 / - 5.3					+ 4.8 / - 6.1					

CIE Pub.117, 414.5 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -3.1)  
Area: 0.000854865 m2

C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:will  
Test Date:21 October 2024

g Range: 0 - 90DEG  
g Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:8.989m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:230.98V I:0.0367A P:8.0301W PF:0.9485 Freq:49.99Hz Lamp Flux:414.462x1 lm		
NAME: 5RS425 Ushape反光杯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

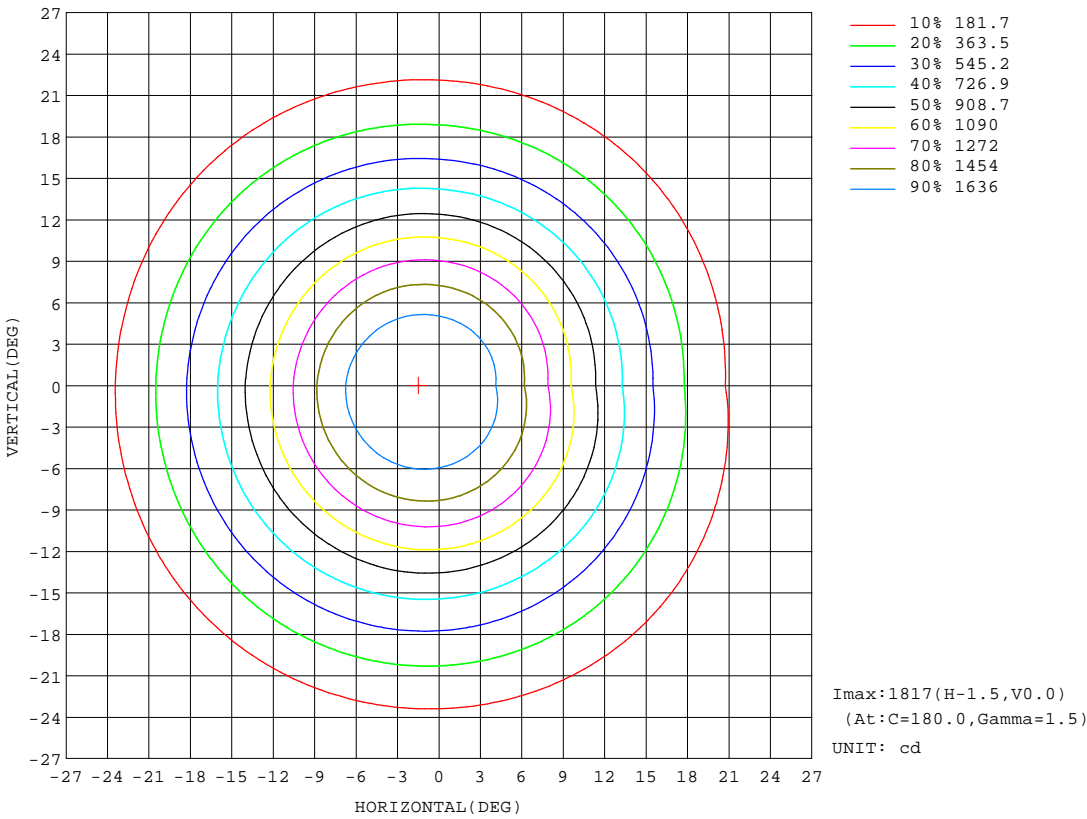
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	91	85	81	90	85	81	89	84	81	78
0.80	98	92	89	97	92	89	96	91	88	85
1.00	101	96	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	107	103	100	106	102	100	104	101	99	94
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	109	107	111	108	106	108	105	104	98
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	112	110	110	108	107	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:will  
Test Date:21 October 2024

g Range: 0 - 90DEG  
g Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:8.989m [K=1.0000]  
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.98V I:0.0367A P:8.0301W PF:0.9485 Freq:49.99Hz Lamp Flux:414.462x1 lm		
NAME: 5RS425 Ushape反光杯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:will  
Test Date:21 October 2024

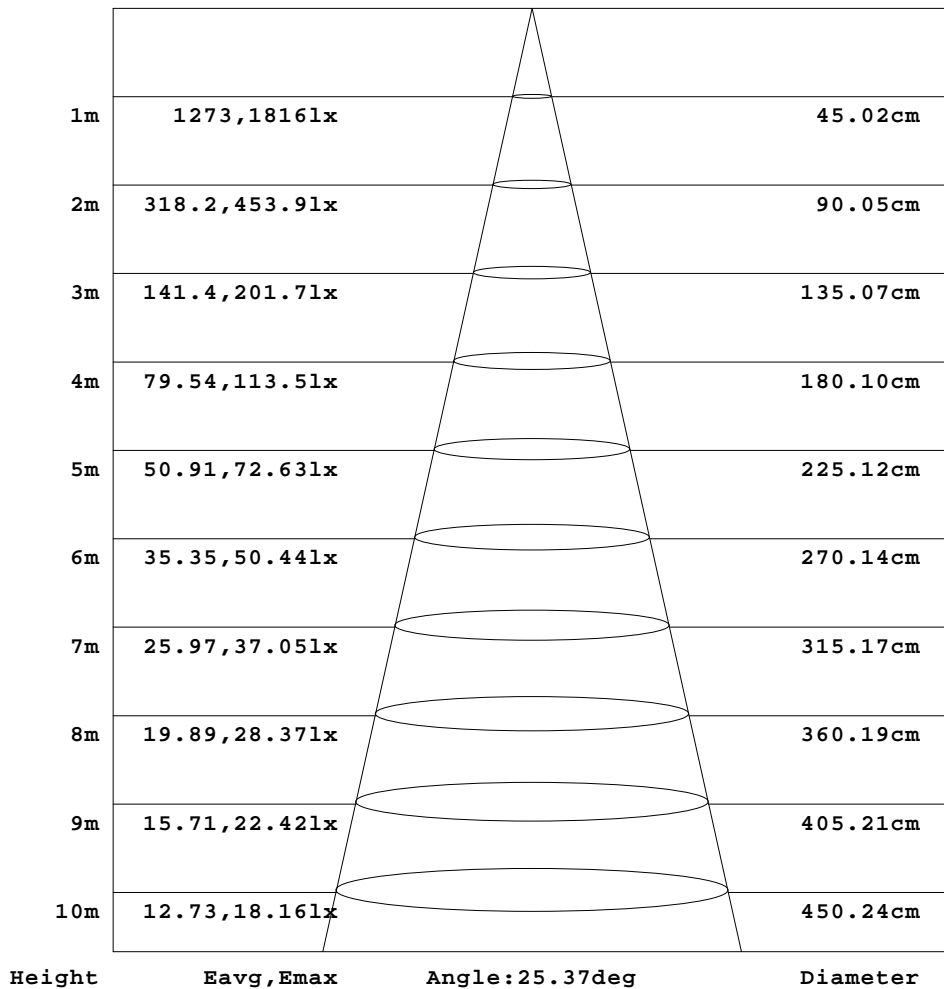
Range: 0 - 90DEG  
Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:8.989m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:230.98V I:0.0367A P:8.0301W PF:0.9485 Freq:49.99Hz Lamp Flux:414.462x1 lm		
NAME: 5RS425 Ushape反光杯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Flux out:213.1 lm



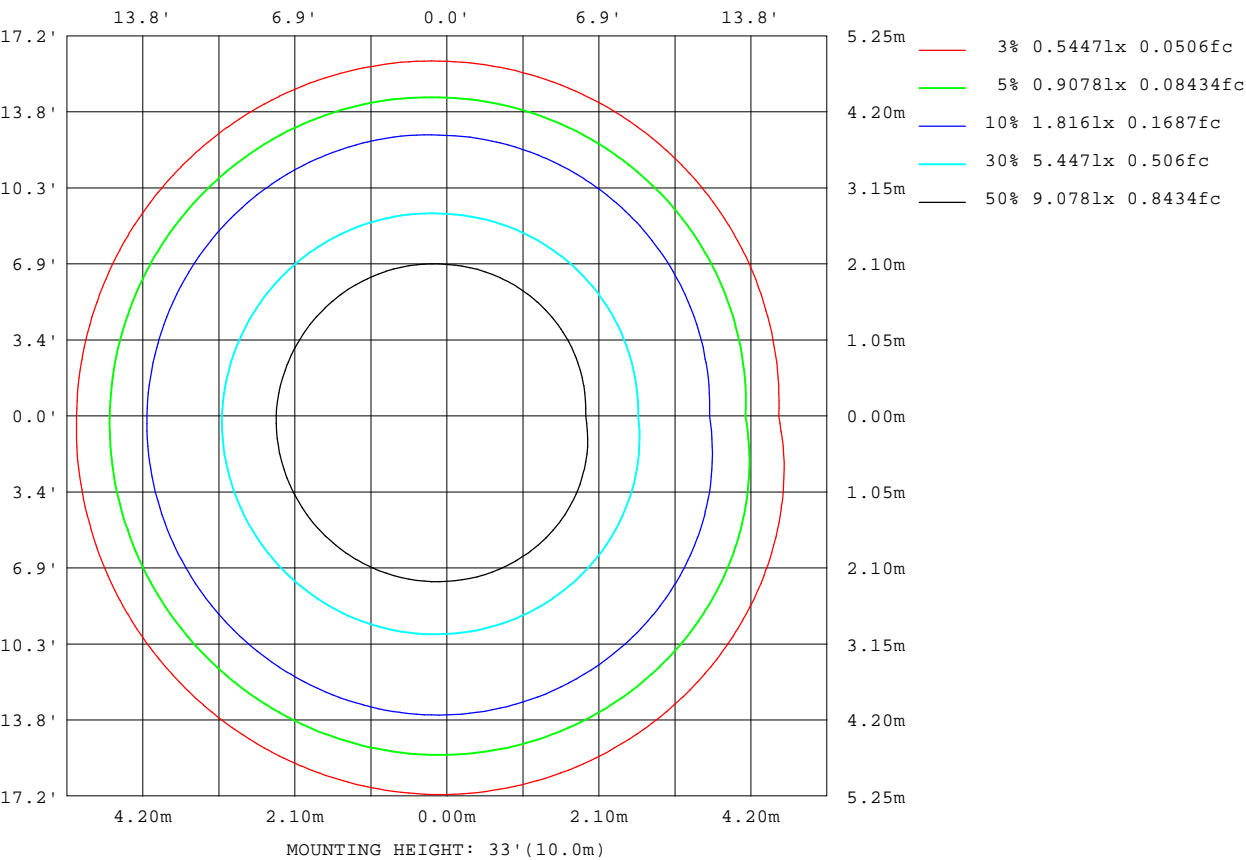
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 2.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: will  
 Test Date: 21 October 2024

g Range: 0 - 90DEG  
 g Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
 Humidity: 65.0%  
 Test Distance: 8.989m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM

Test:U:230.98V I:0.0367A P:8.0301W PF:0.9485 Freq:49.99Hz Lamp Flux:414.462x1 lm		
NAME: 5RS425 Ushape反光杯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:will  
Test Date:21 October 2024

g Range: 0 - 90DEG  
Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:8.989m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:230.98V I:0.0367A P:8.0301W PF:0.9485 Freq:49.99Hz Lamp Flux:414.462x1 lm		
NAME: 5RS425 Ushape反光杯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

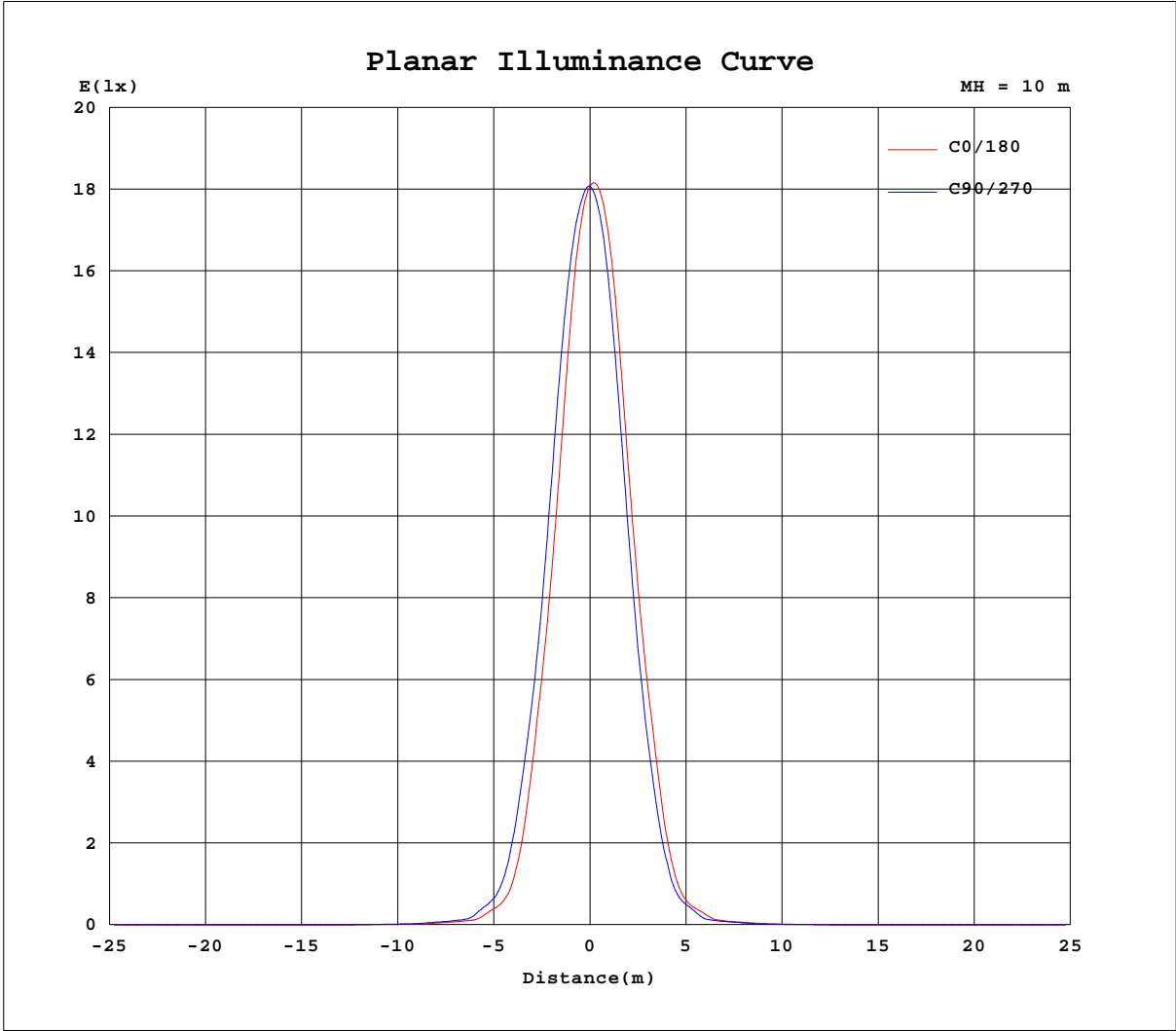
AvgL	cd/m2
L_0~180(65)av	1160
L_0~180(75)av	435
L_0~180(85)av	125
L_90~270(65)av	1143
L_90~270(75)av	435
L_90~270(85)av	42
L_45(65)av	1166
L_45(75)av	439
L_45(85)av	71

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:will  
Test Date:21 October 2024

g Range: 0 - 90DEG  
g Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:8.989m [K=1.0000]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:will  
Test Date:21 October 2024

g Range: 0 - 90DEG  
g Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:8.989m [K=1.0000]  
Remarks:

















