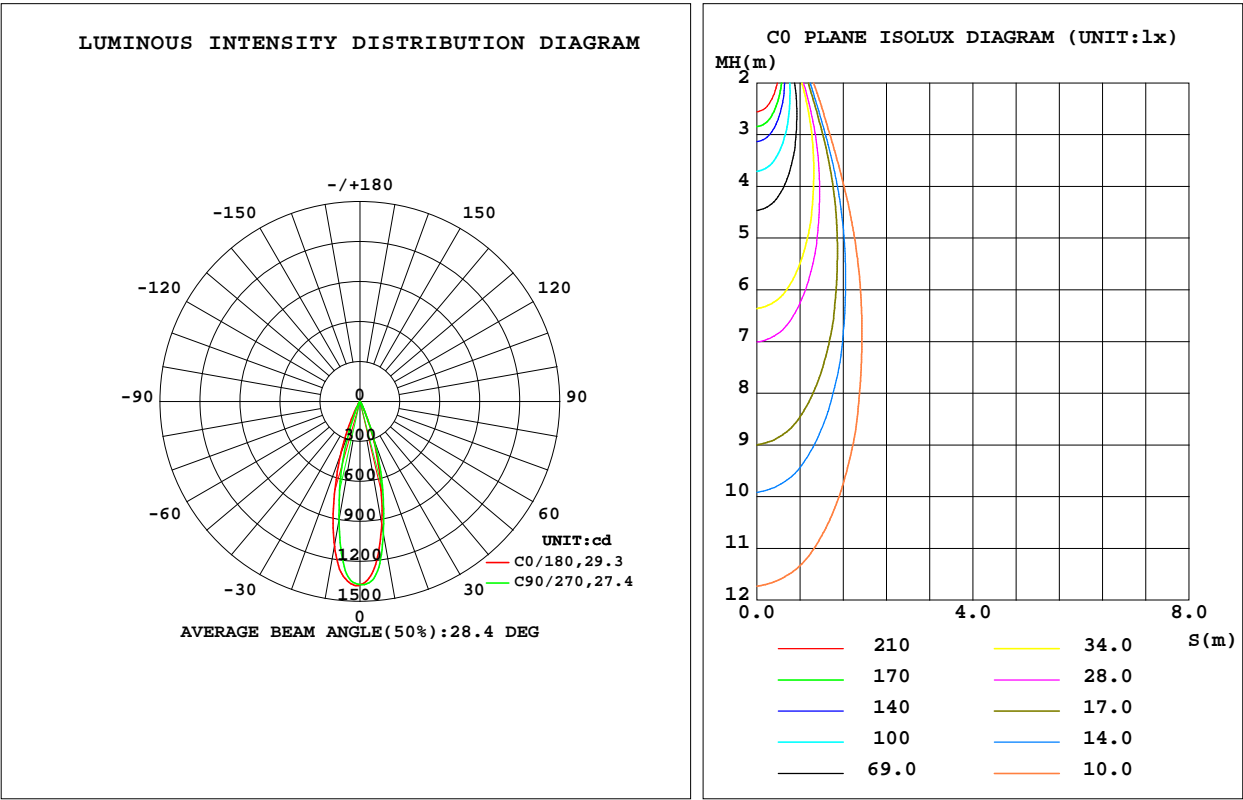


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.98V I:0.0435A P:9.6391W PF:0.9592 Freq:49.99Hz Lamp Flux:363.897x1 lm		
NAME: 5RS425 Ushape反光杯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 37.75 lm/W
MODEL	2700K	I _{max} (cd)	1382	S/MH(C0/180)	0.53	
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.44	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	363.90	h UP,DN(C0-180)	0.0,52.3	
NOMINAL FLUX(lm)	363.897	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,47.7	
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	230V	h down(%)	100.0	CIBSE SHR MAX	0.50	



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:

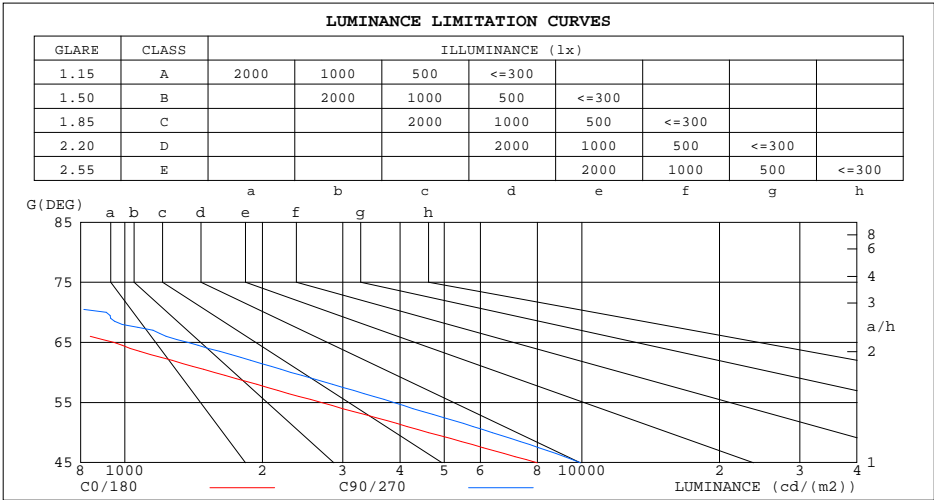
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
5	1253	1291	1317	1331	1330	1303	1273	1258	0- 5	32.00	32.00	8.79,8.79
10	940.0	971.7	1010	1073	1104	1011	910.1	897.1	5- 10	81.55	113.6	31.2,31.2
15	582.6	612.0	650.6	720.4	755.9	656.9	549.0	535.7	10- 15	94.60	208.1	57.2,57.2
20	296.2	296.1	319.0	390.2	434.1	340.0	238.7	235.8	15- 20	76.32	284.5	78.2,78.2
25	101.4	96.61	108.9	153.7	184.6	135.7	79.98	74.93	20- 25	42.10	326.6	89.7,89.7
30	29.14	35.00	42.54	55.46	62.59	47.37	29.58	25.29	25- 30	18.06	344.6	94.7,94.7
35	17.49	18.41	19.54	21.48	22.37	19.31	16.06	15.81	30- 35	7.599	352.2	96.8,96.8
40	9.308	11.25	12.63	13.69	13.68	11.04	8.379	8.064	35- 40	4.989	357.2	98.2,98.2
45	4.823	5.451	5.998	6.644	6.845	5.683	4.461	4.299	40- 45	2.857	360.1	98.9,98.9
50	2.540	3.103	3.498	3.784	3.782	3.126	2.446	2.314	45- 50	1.695	361.8	99.4,99.4
55	1.323	1.679	1.904	2.013	1.966	1.634	1.298	1.224	50- 55	0.9912	362.8	99.7,99.7
60	0.6711	0.8669	0.9868	1.033	0.9989	0.8390	0.6770	0.6345	55- 60	0.5508	363.3	99.8,99.8
65	0.3419	0.4402	0.4966	0.5085	0.4840	0.4157	0.3481	0.3288	60- 65	0.2955	363.6	99.9,99.9
70	0.1615	0.2308	0.2663	0.2613	0.2355	0.2035	0.1738	0.1615	65- 70	0.1542	363.8	100,100
75	0.0870	0.0985	0.1055	0.1073	0.1054	0.0996	0.0931	0.0893	70- 75	0.0797	363.8	100,100
80	0.0435	0.0620	0.0682	0.0570	0.0434	0.0454	0.0497	0.0481	75- 80	0.0394	363.9	100,100
85	0.0125	0.0093	0.0062	0.0015	0	0.0093	0.0186	0.0186	80- 85	0.0156	363.9	100,100
90	0	0	0	0	0	0.0035	0.0062	0.0047	85- 90	0.0026	363.9	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:0.0435A P:9.6391W PF:0.9592 Freq:49.99Hz Lamp Flux:363.897x1 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	167	83
80	293	459
75	393	477
70	552	911
65	946	1375
60	1570	2309
55	2698	3884
50	4623	6366
45	7979	9922

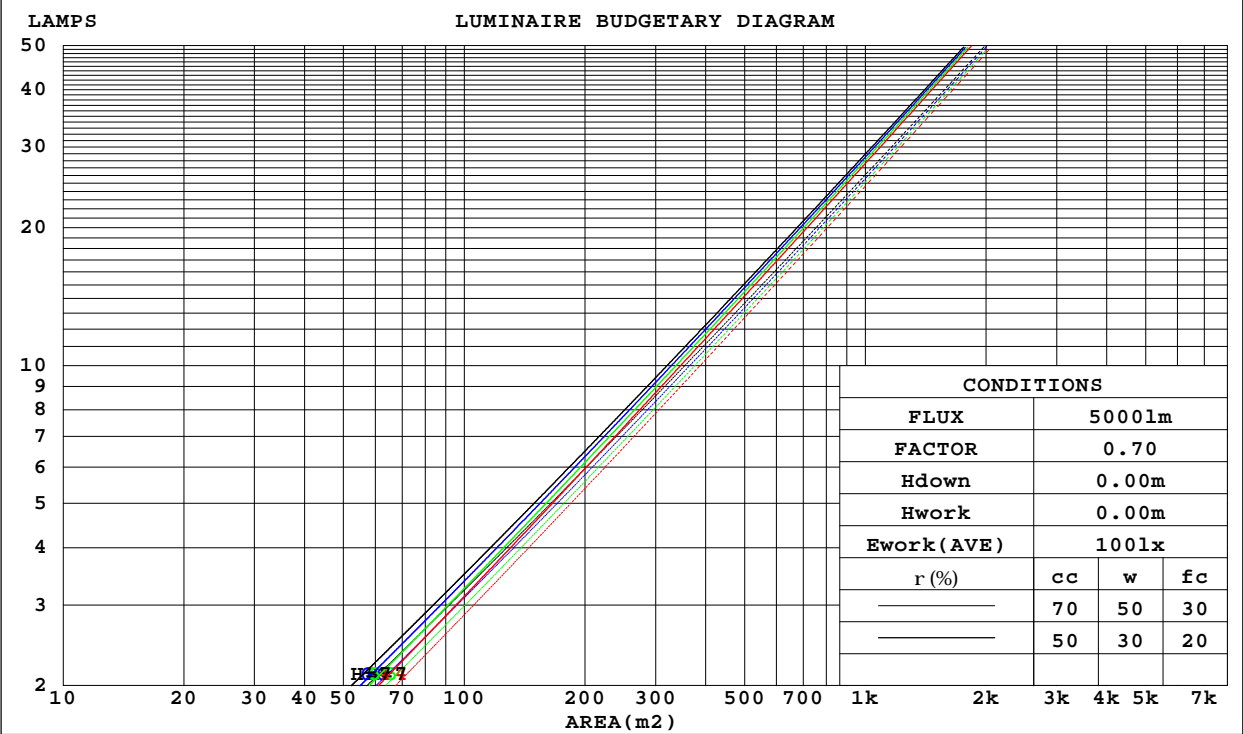
C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:will
Test Date:21 October 2024

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

Test:U:230.98V I:0.0435A P:9.6391W PF:0.9592 Freq:49.99Hz Lamp Flux:363.897x1 lm		
NAME: 5RS425 Ushape反光杯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



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:0.0435A P:9.6391W PF:0.9592 Freq:49.99Hz Lamp Flux:363.897x1 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	.140	.080	.025	.133	.076	.024	.121	.069	.022	.109	.063	.020	.099	.057	.018	
2.0	.130	.071	.022	.125	.069	.021	.114	.064	.020	.105	.059	.018	.096	.054	.017	
3.0	.121	.065	.019	.117	.063	.019	.108	.059	.018	.100	.055	.017	.093	.052	.016	
4.0	.114	.059	.017	.110	.058	.017	.103	.055	.016	.096	.052	.016	.090	.049	.015	
5.0	.108	.055	.016	.104	.054	.016	.098	.051	.015	.092	.049	.015	.087	.047	.014	
6.0	.102	.051	.015	.099	.050	.014	.094	.048	.014	.089	.046	.014	.084	.044	.013	
7.0	.097	.048	.014	.095	.047	.013	.090	.045	.013	.086	.044	.013	.082	.042	.012	
8.0	.093	.045	.013	.090	.045	.013	.086	.043	.012	.083	.042	.012	.079	.041	.012	
9.0	.089	.043	.012	.087	.042	.012	.083	.041	.012	.080	.040	.011	.077	.039	.011	
10.0	.085	.041	.011	.083	.040	.011	.080	.039	.011	.077	.038	.011	.074	.037	.011	

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	.169	.158	.148	.144	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.151	.133	.118	.129	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.136	.113	.095	.116	.098	.083	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.124	.098	.078	.106	.085	.068	.073	.059	.048	.042	.035	.028	.014	.011	.009	
5.0	.113	.086	.065	.097	.074	.057	.067	.052	.040	.039	.030	.024	.013	.010	.008	
6.0	.104	.076	.055	.090	.066	.048	.062	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.097	.068	.047	.083	.059	.041	.058	.041	.029	.033	.024	.017	.011	.008	.006	
8.0	.091	.061	.041	.078	.053	.035	.054	.037	.025	.031	.022	.015	.010	.007	.005	
9.0	.085	.055	.035	.073	.048	.031	.051	.034	.022	.030	.020	.013	.010	.007	.004	
10.0	.080	.051	.031	.069	.044	.027	.048	.031	.019	.028	.018	.011	.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:0.0435A P:9.6391W PF:0.9592 Freq:49.99Hz Lamp Flux:363.897x1 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	9.1	9.8	9.3	9.9	10.1	9.9	10.5	10.1	10.7	10.8				
	3H	9.0	9.6	9.2	9.8	10.0	9.8	10.4	10.0	10.6	10.8				
	4H	8.9	9.5	9.2	9.7	9.9	9.7	10.3	10.0	10.5	10.7				
	6H	8.8	9.4	9.1	9.6	9.9	9.6	10.2	9.9	10.4	10.7				
	8H	8.8	9.3	9.1	9.6	9.8	9.6	10.1	9.9	10.4	10.6				
	12H	8.7	9.3	9.1	9.5	9.8	9.5	10.1	9.8	10.3	10.6				
4H	2H	9.0	9.5	9.2	9.8	10.0	9.7	10.3	10.0	10.5	10.7				
	3H	8.8	9.4	9.1	9.6	9.9	9.6	10.1	9.9	10.4	10.6				
	4H	8.7	9.2	9.1	9.5	9.8	9.5	10.0	9.9	10.3	10.6				
	6H	8.7	9.1	9.0	9.4	9.7	9.4	9.9	9.8	10.2	10.5				
	8H	8.6	9.0	9.0	9.3	9.7	9.4	9.8	9.8	10.1	10.5				
	12H	8.5	8.9	9.0	9.3	9.7	9.3	9.7	9.7	10.1	10.4				
8H	4H	8.6	9.0	9.0	9.3	9.7	9.4	9.8	9.8	10.1	10.5				
	6H	8.5	8.8	8.9	9.2	9.6	9.3	9.6	9.7	10.0	10.4				
	8H	8.4	8.7	8.9	9.2	9.6	9.2	9.5	9.7	9.9	10.4				
	12H	8.4	8.6	8.8	9.1	9.5	9.2	9.4	9.6	9.8	10.3				
12H	4H	8.5	8.9	9.0	9.3	9.7	9.3	9.7	9.7	10.0	10.4				
	6H	8.4	8.7	8.9	9.1	9.6	9.2	9.5	9.7	9.9	10.4				
	8H	8.4	8.6	8.8	9.1	9.5	9.2	9.4	9.6	9.8	10.3				
Variations with the observer position at spacings:															
S = 1.0H		+ 2.6 / - 7.3					+ 2.8 / - 6.4								
1.5H		+ 4.2 / - 4.8					+ 4.3 / - 5.0								
2.0H		+ 4.4 / - 5.4					+ 4.6 / - 5.7								

CIE Pub.117, 363.9 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -3.5)
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:0.0435A P:9.6391W PF:0.9592 Freq:49.99Hz Lamp Flux:363.897x1 lm		
NAME: 5RS425 Ushape反光杯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

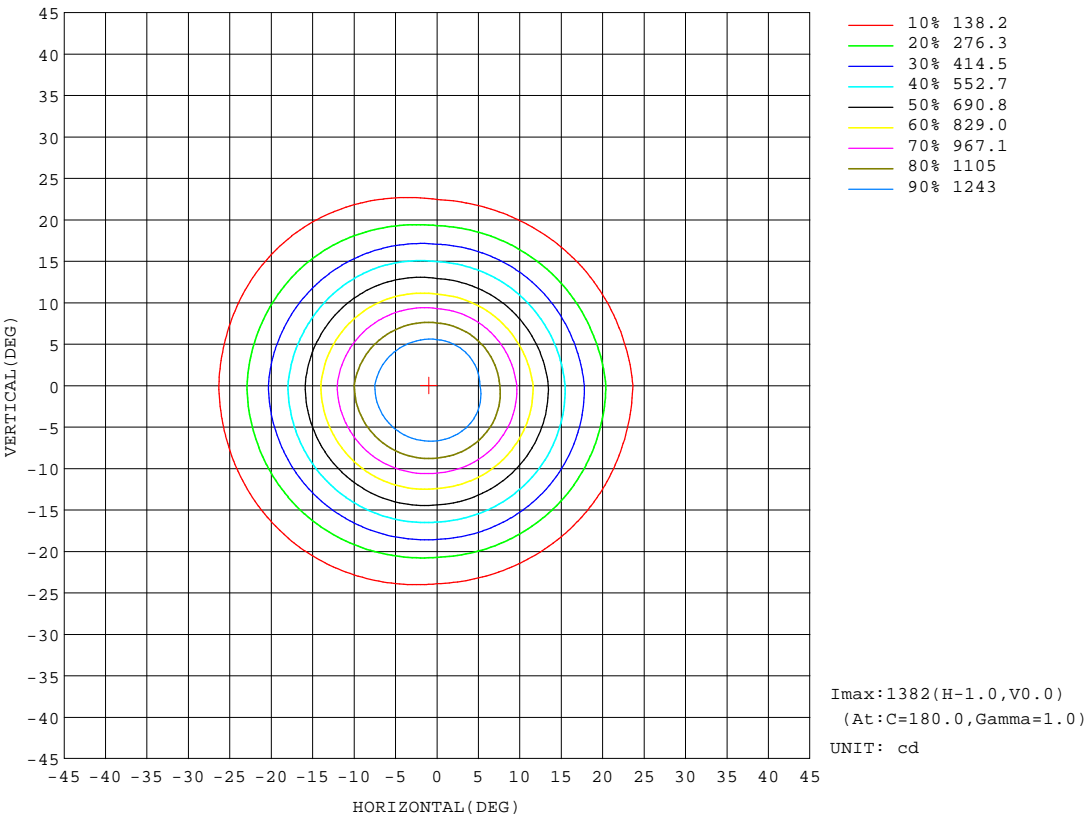
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	90	85	81	90	84	81	89	84	81	78
0.80	97	92	89	97	92	89	96	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	106	104	107	104	102	96
3.00	113	109	107	111	108	106	107	105	104	97
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:0.0435A P:9.6391W PF:0.9592 Freq:49.99Hz Lamp Flux:363.897x1 lm		
NAME: 5RS425 Ushape反光杯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



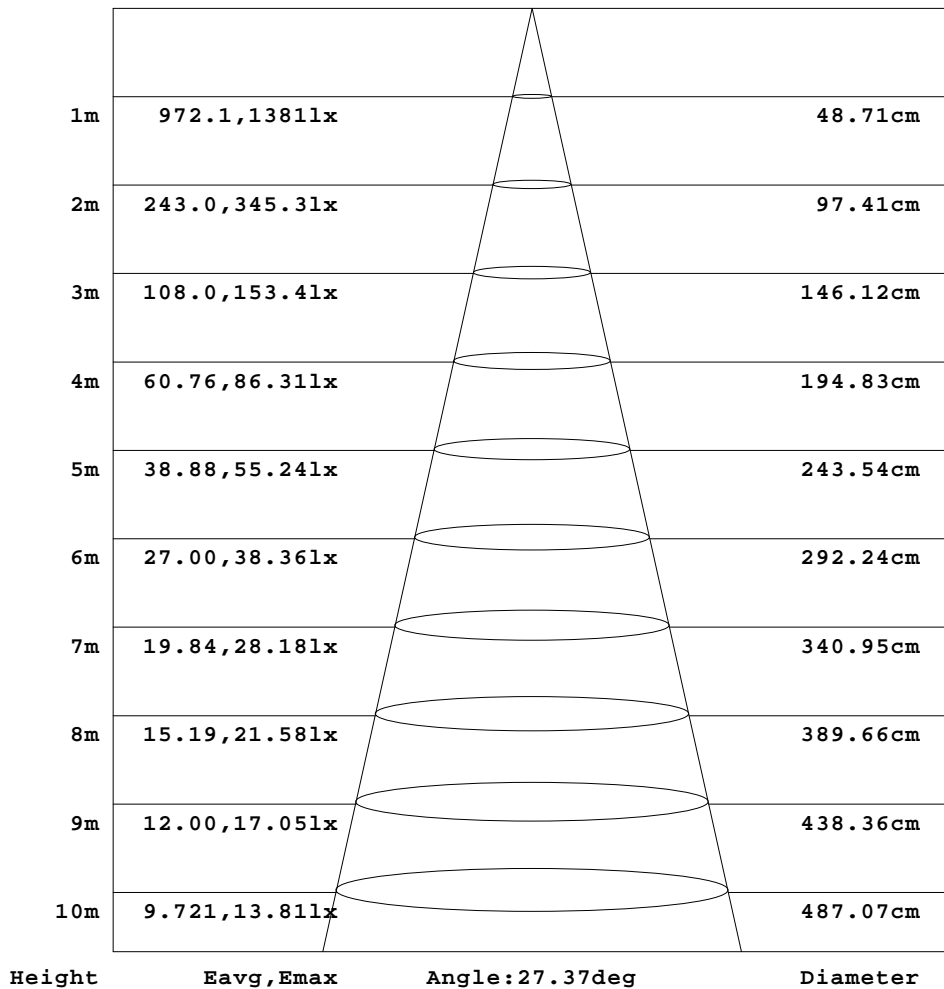
C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:will
Test Date:21 October 2024

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:0.0435A P:9.6391W PF:0.9592 Freq:49.99Hz Lamp Flux:363.897x1 lm		
NAME: 5RS425 Ushape反光杯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Flux out:189.8 lm



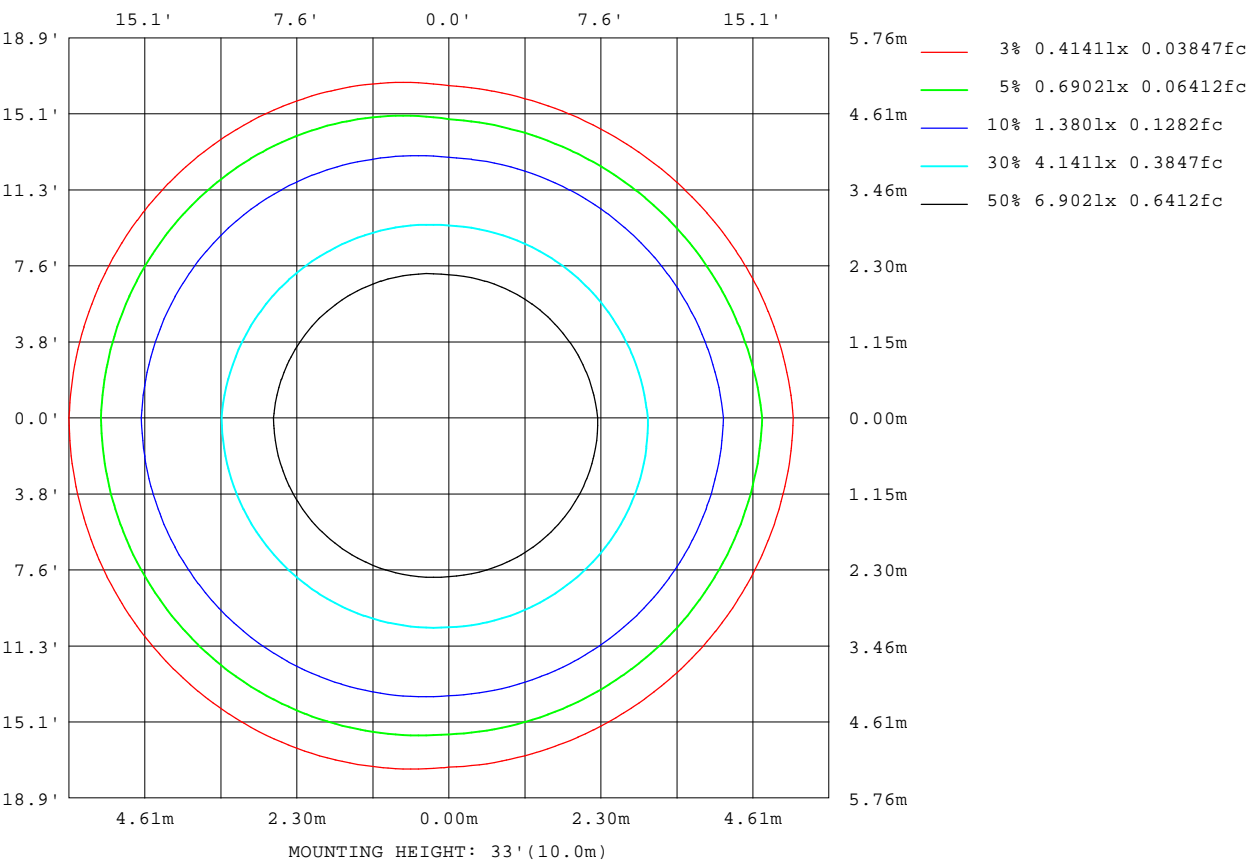
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.0435A P:9.6391W PF:0.9592 Freq:49.99Hz Lamp Flux:363.897x1 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
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:

LED Avg.L Report

Test:U:230.98V I:0.0435A P:9.6391W PF:0.9592 Freq:49.99Hz Lamp Flux:363.897x1 lm		
NAME: 5RS425 Ushape反光杯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

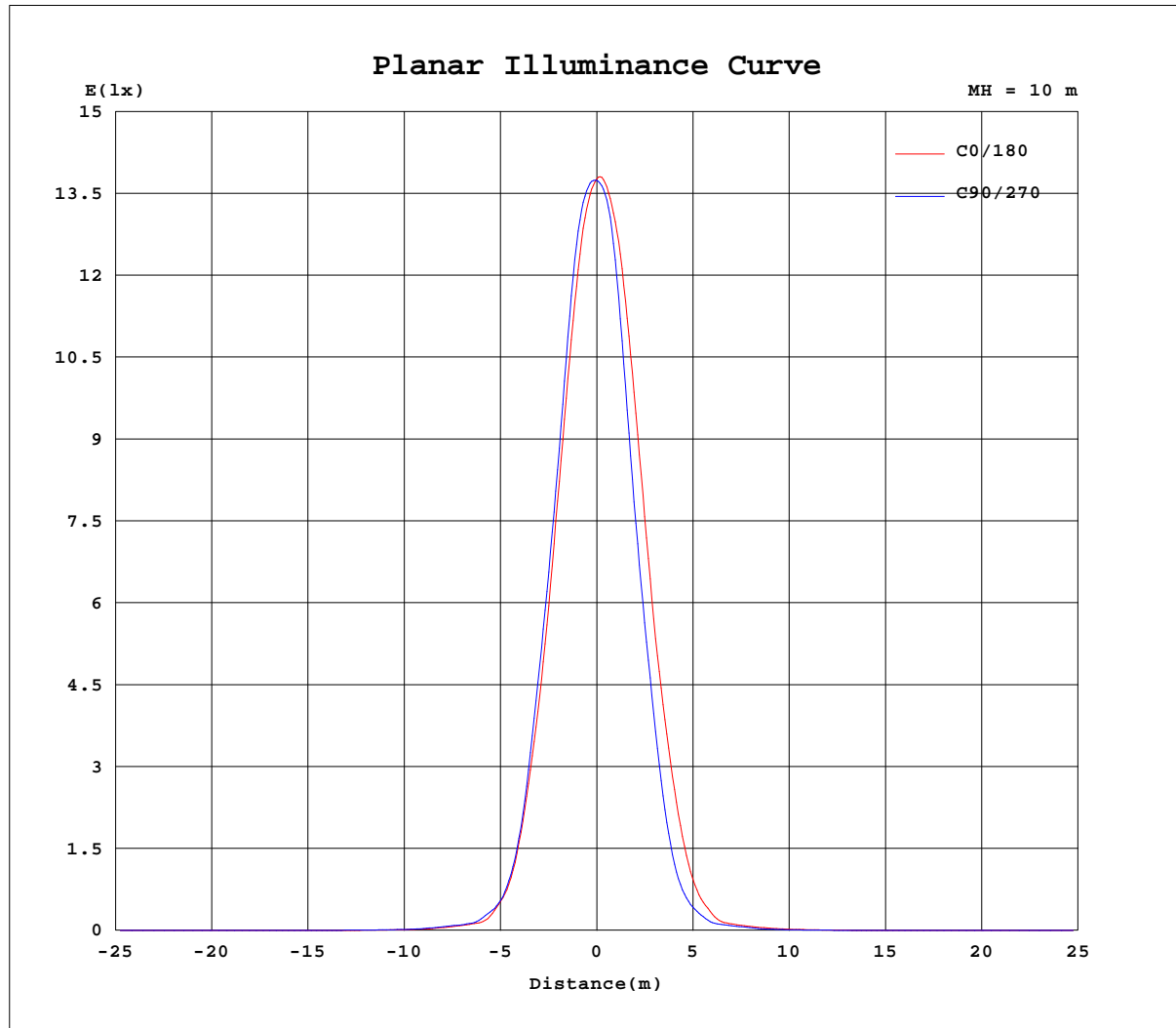
AvgL	cd/m2
L_0~180(65)av	1143
L_0~180(75)av	435
L_0~180(85)av	84
L_90~270(65)av	1169
L_90~270(75)av	449
L_90~270(85)av	167
L_45(65)av	1172
L_45(75)av	446
L_45(85)av	130

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:

