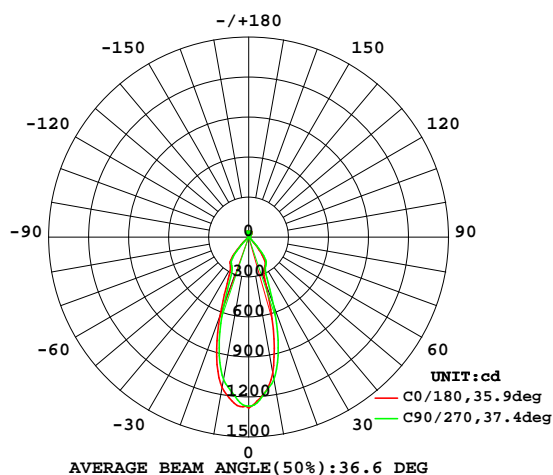


## LUMINAIRE PHOTOMETRIC TEST REPORT

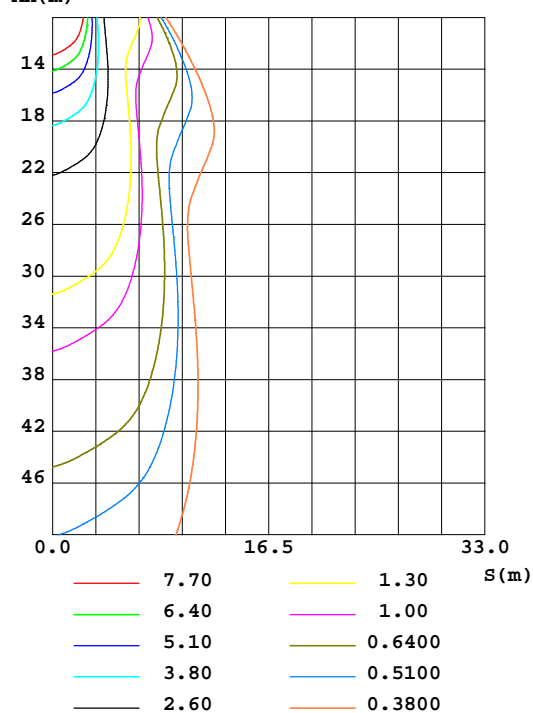
NAME: 929美规	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 106.45 lm/W			
MODEL	LS-500	Imax(cd)	1282	S/MH(C0/180)	0.51
NOMINAL POWER(W)	7	LOR(%)	100.0	S/MH(C90/270)	0.59
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	751.43	$\eta$ UP,DN(C0-180)	4.2,44.3
NOMINAL FLUX(lm)	751.426	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	4.0,47.5
LAMPS INSIDE	1	$\eta$ up(%)	8.2	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120.9	$\eta$ down(%)	91.8	CIBSE SHR MAX	0.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:30.3DEG  
 Operators:DAMIN  
 Test Date:2020-10-22

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.274  
 Humidity:60.2%  
 Test Distance:7.170m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	1037	1049	1087	1123	1147	1123	1087	1049	0- 10	111.7	111.7	14.9,14.9
20	379.1	436.8	549.4	642.7	633.4	642.7	549.4	436.8	10- 20	227.7	339.4	45.2,45.2
30	248.7	253.6	254.8	272.0	277.2	272.0	254.8	253.6	20- 30	158.6	498.0	66.3,66.3
40	105.5	111.3	158.8	185.3	186.9	185.3	158.8	111.3	30- 40	135.8	633.8	84.3,84.3
50	8.212	11.42	11.68	13.34	13.57	13.34	11.68	11.42	40- 50	47.73	681.5	90.7,90.7
60	2.529	3.650	4.237	4.637	4.833	4.637	4.237	3.650	50- 60	6.480	688.0	91.6,91.6
70	0	0	0.1707	0.6000	0.7655	0.6000	0.1707	0	60- 70	1.919	689.9	91.8,91.8
80	0	0	0	0	0	0	0	0	70- 80	0.0311	690.0	91.8,91.8
90	0	0	0	0	0	0	0	0	80- 90	0	690.0	91.8,91.8
100	0	0	0	0	0	0	0	0	90-100	0	690.0	91.8,91.8
110	0	0	0	0	0	0	0	0	100-110	0	690.0	91.8,91.8
120	1.022	0.3102	0	0	0	0	0	0.3102	110-120	0.0152	690.0	91.8,91.8
130	9.197	7.707	6.006	4.732	4.619	4.732	6.006	7.707	120-130	2.392	692.4	92.1,92.1
140	22.24	20.32	17.78	15.76	15.65	15.76	17.78	20.32	130-140	9.073	701.4	93.3,93.3
150	36.99	34.68	31.99	29.98	30.06	29.98	31.99	34.68	140-150	15.70	717.1	95.4,95.4
160	46.37	45.30	44.15	43.45	43.90	43.45	44.15	45.30	150-160	17.96	735.1	97.8,97.8
170	39.67	40.20	41.75	43.76	44.47	43.76	41.75	40.20	160-170	12.70	747.8	99.5,99.5
180	25.75	26.67	28.75	31.33	32.27	31.33	28.75	26.67	170-180	3.623	751.4	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

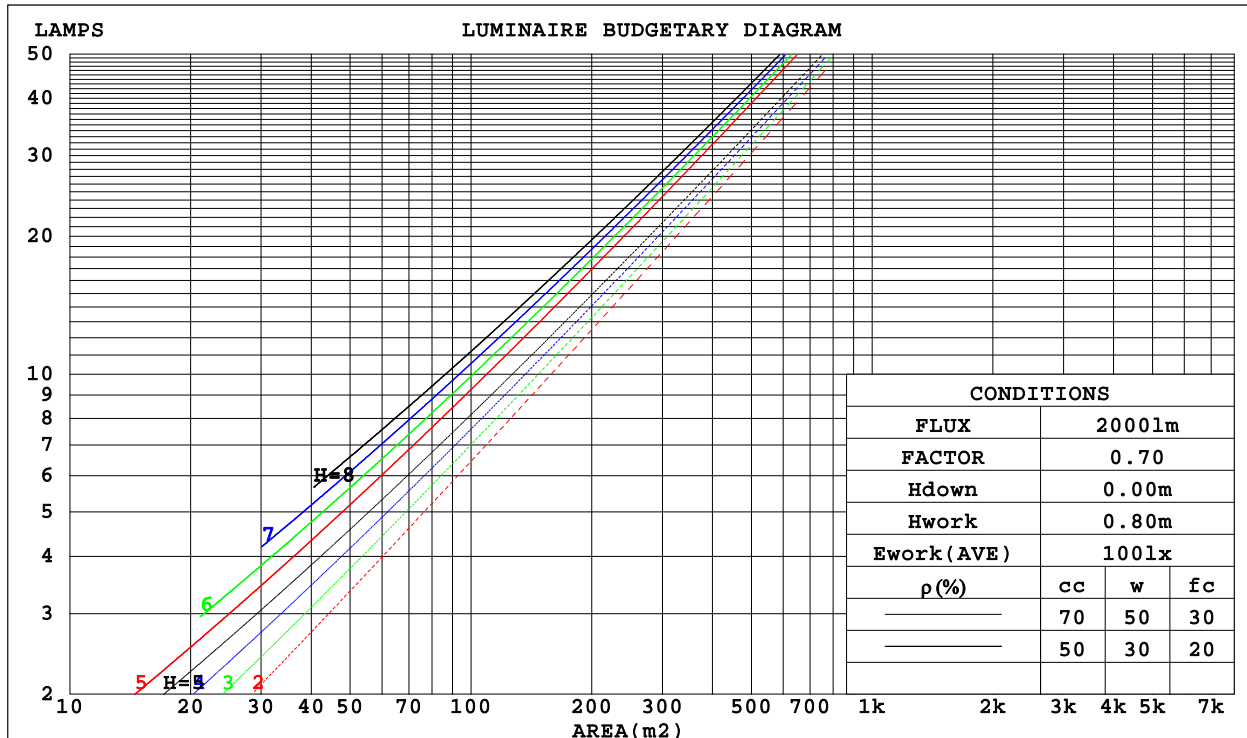
C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:30.3DEG  
 Operators:DAMIN  
 Test Date:2020-10-22

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.274  
 Humidity:60.2%  
 Test Distance:7.170m [K=1.0000]  
 Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: 929美规	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio                      Coefficients of Utilization(CU)															
0.0	1.17	1.17	1.17	1.13	1.13	1.13	1.07	1.07	1.07	1.00	1.00	1.00	.95	.95	.95	.92
1.0	1.09	1.06	1.04	1.06	1.04	1.02	1.00	.99	.97	.95	.94	.93	.91	.90	.89	.86
2.0	1.01	.97	.94	.99	.95	.92	.94	.92	.89	.90	.88	.86	.86	.85	.83	.81
3.0	.95	.90	.86	.93	.88	.85	.89	.85	.82	.85	.82	.80	.82	.80	.78	.76
4.0	.89	.83	.79	.87	.82	.78	.84	.80	.76	.81	.77	.75	.78	.75	.73	.71
5.0	.83	.77	.73	.82	.76	.73	.79	.75	.71	.77	.73	.70	.74	.71	.69	.67
6.0	.78	.72	.68	.77	.72	.68	.75	.70	.67	.73	.69	.66	.71	.67	.65	.63
7.0	.74	.68	.64	.73	.67	.64	.71	.66	.63	.69	.65	.62	.67	.64	.61	.59
8.0	.70	.64	.60	.69	.64	.60	.67	.62	.59	.66	.61	.58	.64	.60	.58	.56
9.0	.66	.61	.57	.65	.60	.57	.64	.59	.56	.63	.58	.55	.61	.57	.55	.53
10.0	.63	.58	.54	.62	.57	.54	.61	.56	.53	.60	.55	.53	.58	.55	.52	.51



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 30.3DEG  
 Operators: DAMIN  
 Test Date: 2020-10-22

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.274  
 Humidity: 60.2%  
 Test Distance: 7.170m [K=1.0000]  
 Remarks:

## WEC AND CCEC

NAME: 929美规	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION 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	.177	.101	.032	.168	.096	.030	.151	.086	.028	.135	.078	.025	.120	.070	.022	
2.0	.168	.092	.028	.161	.088	.027	.146	.081	.025	.132	.074	.023	.119	.067	.021	
3.0	.160	.085	.025	.153	.082	.025	.140	.076	.023	.128	.070	.021	.117	.065	.020	
4.0	.152	.079	.023	.146	.076	.023	.134	.071	.021	.123	.066	.020	.113	.062	.019	
5.0	.144	.073	.021	.139	.071	.021	.128	.067	.020	.119	.063	.019	.110	.059	.018	
6.0	.137	.069	.020	.132	.067	.019	.123	.063	.018	.114	.059	.017	.106	.056	.017	
7.0	.131	.065	.018	.126	.063	.018	.118	.060	.017	.110	.056	.016	.103	.053	.016	
8.0	.125	.061	.017	.121	.059	.017	.113	.056	.016	.106	.054	.015	.099	.051	.015	
9.0	.119	.058	.016	.115	.056	.016	.109	.054	.015	.102	.051	.015	.096	.049	.014	
10.0	.114	.055	.015	.111	.053	.015	.104	.051	.014	.098	.049	.014	.093	.047	.013	

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	.253	.253	.253	.216	.216	.216	.147	.147	.147	.085	.085	.085	.027	.027	.027	
1.0	.234	.220	.208	.200	.189	.179	.137	.130	.124	.079	.075	.072	.025	.024	.023	
2.0	.219	.196	.176	.188	.169	.152	.129	.117	.106	.074	.068	.062	.024	.022	.020	
3.0	.207	.177	.153	.177	.153	.133	.122	.106	.093	.070	.062	.055	.023	.020	.018	
4.0	.197	.163	.137	.169	.141	.119	.116	.098	.084	.067	.057	.049	.022	.019	.016	
5.0	.188	.151	.124	.161	.131	.108	.111	.091	.076	.064	.054	.045	.021	.018	.015	
6.0	.181	.142	.114	.155	.123	.100	.107	.086	.071	.062	.051	.042	.020	.017	.014	
7.0	.174	.135	.107	.150	.117	.093	.103	.082	.066	.060	.048	.039	.019	.016	.013	
8.0	.168	.128	.101	.145	.111	.088	.100	.078	.063	.058	.046	.037	.019	.015	.012	
9.0	.163	.123	.096	.141	.107	.084	.097	.075	.060	.057	.044	.036	.018	.015	.012	
10.0	.159	.119	.093	.137	.103	.081	.095	.073	.057	.055	.043	.034	.018	.014	.011	

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 30.3DEG  
 Operators: DAMIN  
 Test Date: 2020-10-22

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.274  
 Humidity: 60.2%  
 Test Distance: 7.170m [K=1.0000]  
 Remarks:

### Uncorrected UGR Table

NAME: 929美规					TYPE:					WEIGHT:				
DIM.:					SPEC.:					SERIAL No.:				
MFR.: EVERFINE					SUR.:					PROTECTION 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	9.7	10.6	10.0	10.8	11.1	10.5	11.4	10.9	11.7	12.0				
3H	9.5	10.3	9.9	10.6	11.0	10.4	11.1	10.7	11.5	11.8				
4H	9.4	10.1	9.8	10.5	10.9	10.3	11.0	10.6	11.3	11.7				
6H	9.3	10.0	9.7	10.4	10.8	10.1	10.8	10.6	11.2	11.6				
8H	9.2	9.9	9.7	10.3	10.7	10.1	10.8	10.5	11.1	11.6				
12H	9.2	9.8	9.6	10.2	10.6	10.0	10.7	10.5	11.1	11.5				
4H 2H	9.4	10.1	9.8	10.5	10.9	10.3	11.0	10.7	11.3	11.7				
3H	9.2	9.8	9.6	10.2	10.7	10.0	10.7	10.5	11.1	11.5				
4H	9.1	9.6	9.5	10.1	10.5	9.9	10.5	10.4	10.9	11.4				
6H	9.0	9.5	9.5	9.9	10.4	9.8	10.3	10.3	10.8	11.3				
8H	8.9	9.4	9.4	9.8	10.4	9.8	10.2	10.3	10.7	11.2				
12H	8.8	9.3	9.4	9.8	10.3	9.7	10.1	10.2	10.6	11.2				
8H 4H	8.9	9.4	9.4	9.8	10.4	9.8	10.2	10.3	10.7	11.2				
6H	8.8	9.1	9.3	9.7	10.3	9.6	10.0	10.2	10.5	11.1				
8H	8.7	9.0	9.3	9.6	10.2	9.6	9.9	10.1	10.4	11.1				
12H	8.6	8.9	9.2	9.5	10.1	9.5	9.8	10.1	10.4	11.0				
12H 4H	8.8	9.3	9.4	9.8	10.3	9.7	10.1	10.2	10.6	11.2				
6H	8.7	9.0	9.3	9.6	10.2	9.6	9.9	10.1	10.4	11.1				
8H	8.6	8.9	9.2	9.5	10.1	9.5	9.8	10.1	10.4	11.0				
Variations with the observer position at spacings:														
S = 1.0H	+ 3.4 / -14.8					+ 3.5 / -13.9								
1.5H	+ 6.1 / -11.1					+ 6.0 / -11.6								
2.0H	+ 5.2 / - 6.1					+ 8.2 / - 7.7								

CIE Pub.117 Corrected 751.4 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.0)

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:30.3DEG  
Operators:DAMIN  
Test Date:2020-10-22

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.274  
Humidity:60.2%  
Test Distance:7.170m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

NAME: 929美规	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

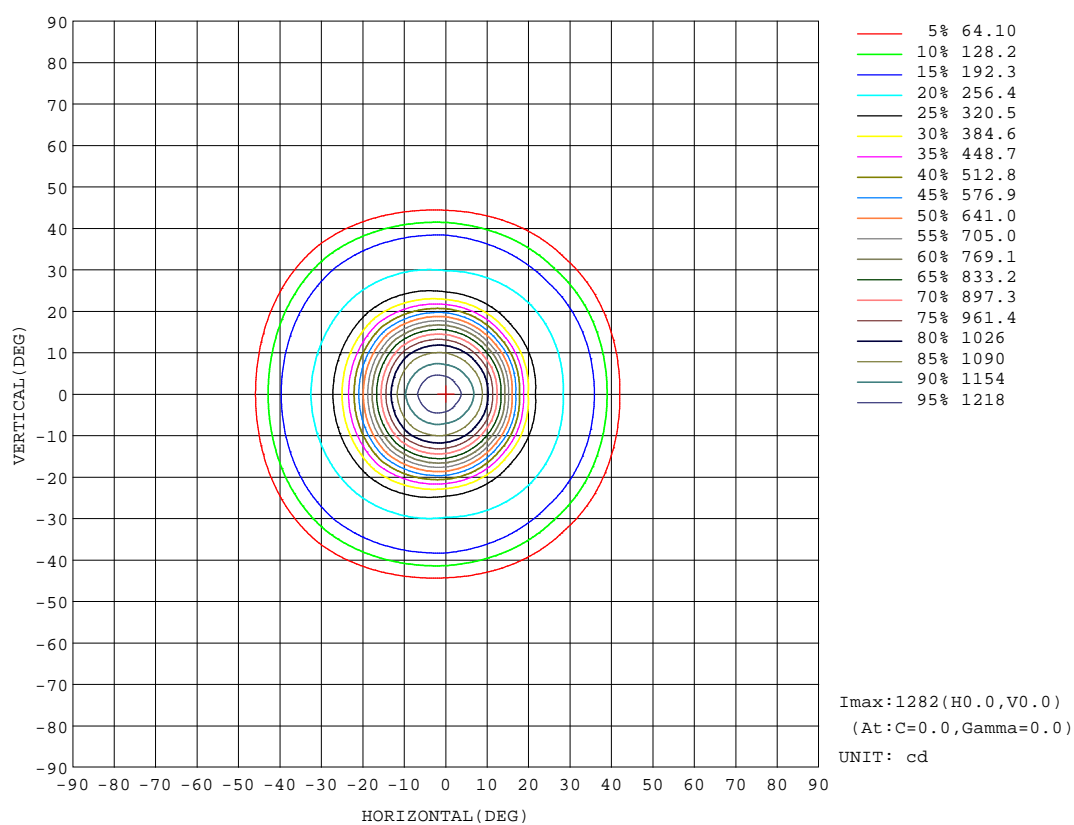
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	82	75	71	81	75	71	80	74	70	66
0.80	90	83	79	89	83	79	87	81	78	73
1.00	95	89	85	93	88	84	91	87	83	78
1.25	99	93	89	97	92	89	94	90	87	82
1.50	102	97	93	100	95	92	97	93	90	84
2.00	105	100	97	103	99	96	99	96	93	86
2.50	107	103	100	105	101	98	100	97	95	87
3.00	109	105	102	106	103	100	101	99	97	88
4.00	111	108	105	108	106	103	103	101	99	90
5.00	112	110	108	109	107	105	104	102	101	90
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:30.3DEG  
Operators:DAMIN  
Test Date:2020-10-22

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.274  
Humidity:60.2%  
Test Distance:7.170m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

NAME: 929美规	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

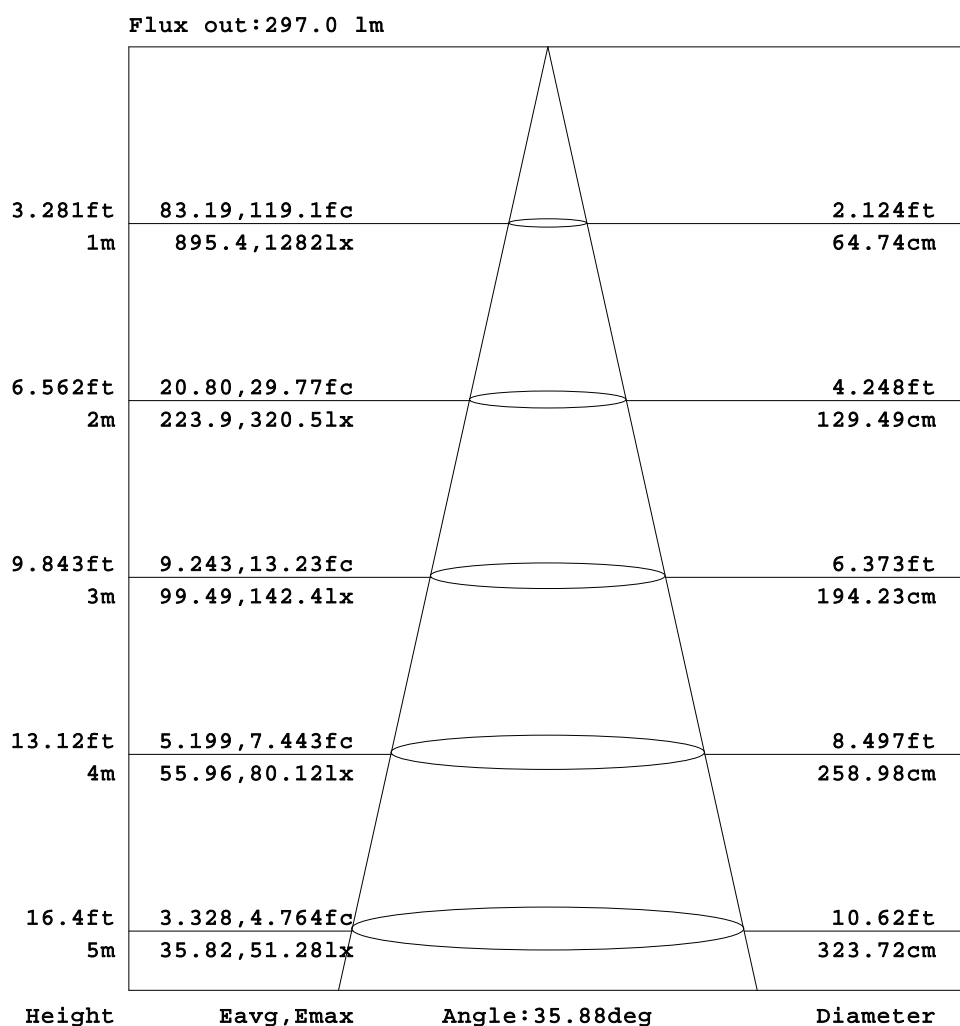


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:30.3DEG  
Operators:DAMIN  
Test Date:2020-10-22

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.274  
Humidity:60.2%  
Test Distance:7.170m [K=1.0000]  
Remarks:

## AAI Figure

NAME: 929美规	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



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

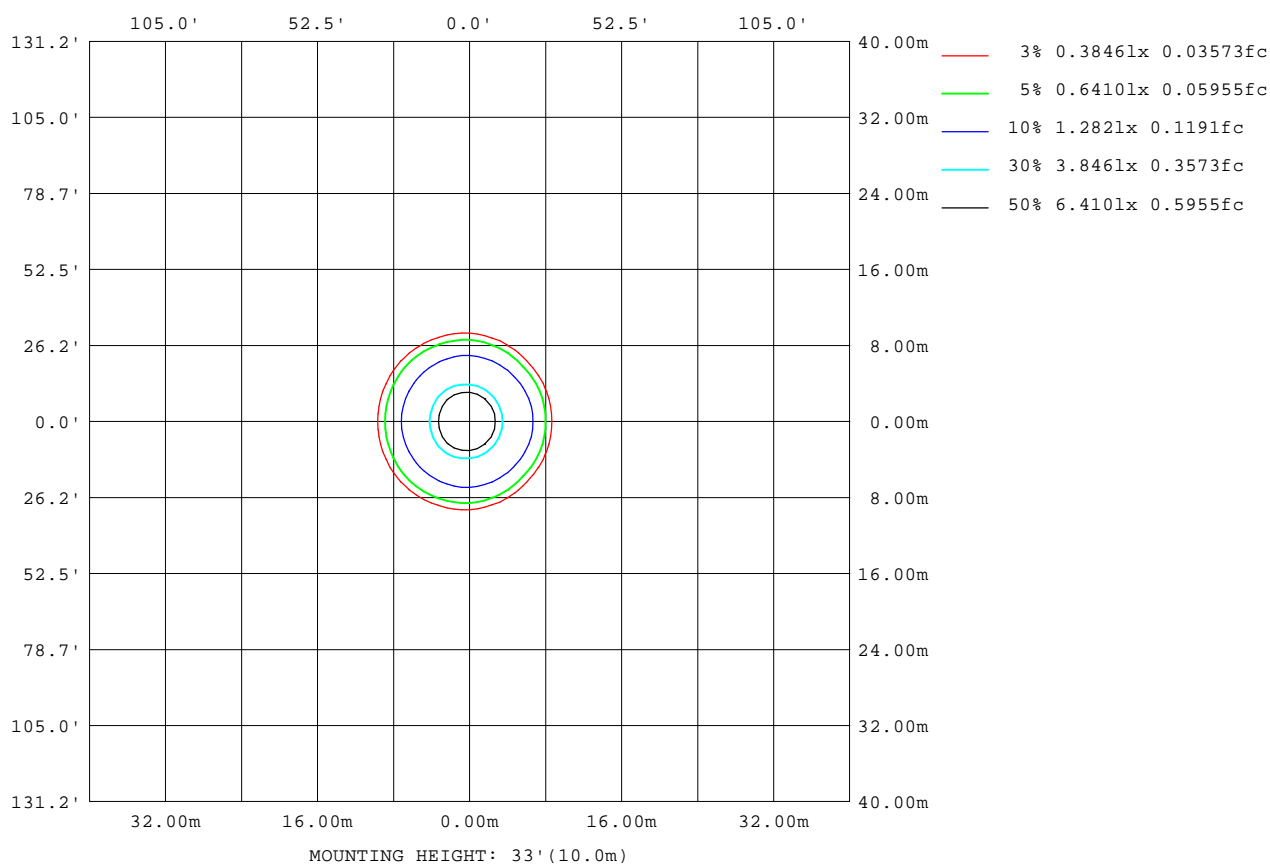
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 30.3DEG  
Operators: DAMIN  
Test Date: 2020-10-22

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.274  
Humidity: 60.2%  
Test Distance: 7.170m [K=1.0000]  
Remarks:



# ISOLUX DIAGRAM

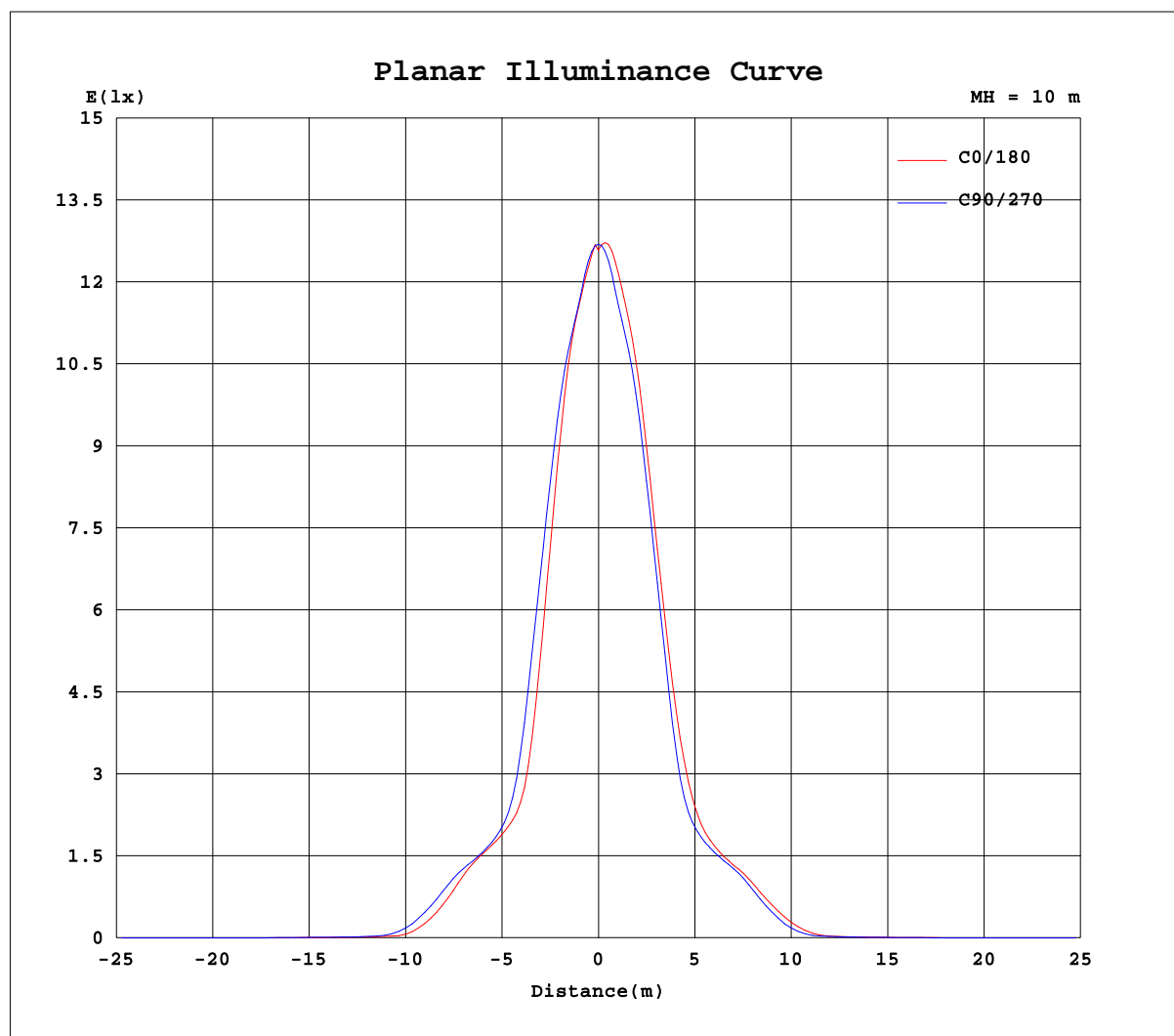
NAME: 929美规	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 30.3DEG  
 Operators: DAMIN  
 Test Date: 2020-10-22

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.274  
 Humidity: 60.2%  
 Test Distance: 7.170m [K=1.0000]  
 Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 30.3DEG  
Operators: DAMIN  
Test Date: 2020-10-22

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.274  
Humidity: 60.2%  
Test Distance: 7.170m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 929美规	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(°) γ (°)	0	45	90	135	180	225	270	315										
0	1282	1272	1269	1261	1258	1261	1269	1272										
5	1192	1185	1199	1235	1252	1235	1199	1185										
10	1037	1049	1087	1123	1147	1123	1087	1049										
15	715	770	862	933	931	933	862	770										
20	379	437	549	643	633	643	549	437										
25	276	283	310	380	385	380	310	283										
30	249	254	255	272	277	272	255	254										
35	208	206	231	238	243	238	231	206										
40	105	111	159	185	187	185	159	111										
45	20.3	33.9	51.8	79.9	81.8	79.9	51.8	33.9										
50	8.21	11.4	11.7	13.3	13.6	13.3	11.7	11.4										
55	4.79	6.54	7.36	7.88	8.16	7.88	7.36	6.54										
60	2.53	3.65	4.24	4.64	4.83	4.64	4.24	3.65										
65	0.69	1.23	2.15	2.44	2.51	2.44	2.15	1.23										
70	0.00	0.00	0.17	0.60	0.77	0.60	0.17	0.00										
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
120	1.02	0.31	0.00	0.00	0.00	0.00	0.00	0.31										
125	4.43	3.44	2.31	1.40	1.32	1.40	2.31	3.44										
130	9.20	7.71	6.01	4.73	4.62	4.73	6.01	7.71										
135	15.4	13.6	11.3	9.52	9.40	9.52	11.3	13.6										
140	22.2	20.3	17.8	15.8	15.7	15.8	17.8	20.3										
145	29.6	27.4	24.8	22.7	22.7	22.7	24.8	27.4										
150	37.0	34.7	32.0	30.0	30.1	30.0	32.0	34.7										
155	43.3	41.3	39.0	37.3	37.5	37.3	39.0	41.3										
160	46.4	45.3	44.2	43.5	43.9	43.5	44.2	45.3										
165	44.8	44.8	45.2	45.9	46.5	45.9	45.2	44.8										
170	39.7	40.2	41.7	43.8	44.5	43.8	41.7	40.2										
175	33.0	33.8	35.7	38.3	39.2	38.3	35.7	33.8										
180	25.7	26.7	28.8	31.3	32.3	31.3	28.8	26.7										

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 30.3DEG  
 Operators: DAMIN  
 Test Date: 2020-10-22

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.274  
 Humidity: 60.2%  
 Test Distance: 7.170m [K=1.0000]  
 Remarks: