

```

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:6.250m [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	533.8	558.6	589.2	608.4	612.0	584.8	550.2	532.7	0- 10	58.35	58.35	11.2,11.2
20	397.2	423.1	450.5	460.9	464.1	438.1	396.7	387.4	10- 20	140.1	198.5	38,38
30	210.1	236.2	272.4	292.3	296.7	268.6	226.2	206.6	20- 30	156.3	354.8	68,68
40	62.77	76.64	95.00	112.6	111.2	94.76	74.19	63.93	30- 40	98.51	453.3	86.8,86.8
50	15.85	17.96	22.51	28.02	30.25	23.73	18.41	15.59	40- 50	36.76	490.1	93.9,93.9
60	6.224	6.992	7.897	8.741	9.510	7.692	6.298	5.748	50- 60	11.37	501.4	96.1,96.1
70	2.287	2.416	2.535	2.631	2.644	2.453	2.247	2.238	60- 70	4.323	505.8	96.9,96.9
80	1.185	1.278	1.359	1.420	1.434	1.338	1.282	1.226	70- 80	1.933	507.7	97.3,97.3
90	0.8142	0.9439	0.7923	0.9652	0.9068	1.092	0.9077	1.065	80- 90	1.129	508.8	97.5,97.5
100	0.9716	1.109	0.9164	1.077	1.066	1.330	1.116	1.293	90-100	1.157	510.0	97.7,97.7
110	1.292	1.333	1.162	1.265	1.323	1.620	1.426	1.550	100-110	1.325	511.3	97.9,97.9
120	1.777	1.739	1.585	1.605	1.717	1.915	1.868	1.950	110-120	1.557	512.9	98.2,98.2
130	2.413	2.367	2.182	2.141	2.251	2.370	2.435	2.533	120-130	1.827	514.7	98.6,98.6
140	3.049	3.064	2.863	2.866	2.864	3.054	3.055	3.170	130-140	2.065	516.8	99,99
150	3.528	3.745	3.413	3.533	3.396	3.670	3.515	3.722	140-150	2.074	518.8	99.4,99.4
160	3.788	3.885	3.741	3.823	3.721	3.861	3.761	3.831	150-160	1.717	520.5	99.7,99.7
170	3.899	3.924	3.930	3.901	3.912	3.918	3.917	3.900	160-170	1.094	521.6	99.9,99.9
180	4.053	4.069	4.068	4.062	4.057	4.065	4.060	4.058	170-180	0.3786	522.0	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

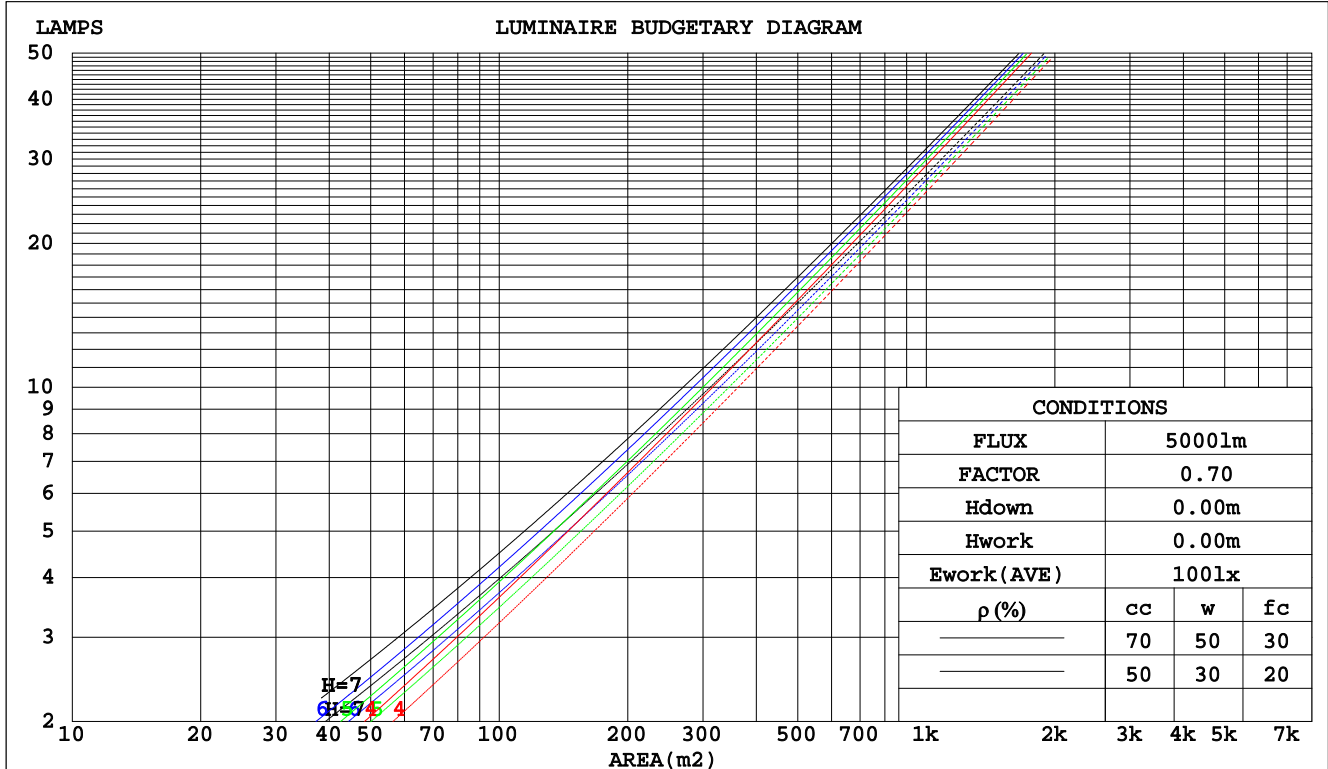
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QiuMing  
Test Date:2016-06-29

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity:65.0%  
Test Distance:6.250m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Rayconn	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						Coefficients of Utilization(CU)									
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	.00	.00	.00	.97
1.0	1.10	1.07	1.05	1.07	1.05	1.03	1.03	1.01	.99	.99	.97	.96	.95	.94	.93	.91
2.0	1.02	.98	.94	.90	.96	.93	.96	.93	.90	.93	.90	.88	.90	.88	.86	.84
3.0	.95	.89	.85	.93	.88	.85	.90	.86	.83	.87	.84	.81	.85	.82	.80	.78
4.0	.88	.83	.78	.87	.82	.78	.84	.80	.76	.82	.78	.75	.80	.77	.74	.72
5.0	.82	.76	.72	.81	.76	.72	.79	.74	.71	.77	.73	.70	.75	.72	.69	.67
6.0	.77	.71	.67	.76	.71	.66	.75	.70	.66	.73	.69	.65	.71	.68	.65	.63
7.0	.73	.66	.62	.72	.66	.62	.70	.65	.61	.69	.64	.61	.68	.64	.60	.59
8.0	.68	.62	.58	.68	.62	.58	.66	.61	.58	.65	.61	.57	.64	.60	.57	.55
9.0	.65	.59	.55	.64	.58	.54	.63	.58	.54	.62	.57	.54	.61	.57	.53	.52
10.0	.61	.55	.51	.61	.55	.51	.60	.54	.51	.59	.54	.51	.58	.53	.50	.49



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: QiuMing  
Test Date: 2016-06-29

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity: 65.0%  
Test Distance: 6.250m [K=1.0000]  
Remarks:

## WEC AND CCEC

NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Rayconn	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	.186 .106 .033	.178 .102 .032	.164 .094 .030	.151 .087 .028	.139 .081 .026	
2.0	.177 .097 .030	.171 .094 .029	.159 .088 .027	.148 .083 .026	.138 .078 .025	
3.0	.168 .090 .027	.163 .087 .026	.152 .083 .025	.143 .078 .024	.134 .074 .023	
4.0	.160 .083 .024	.155 .081 .024	.146 .077 .023	.138 .074 .022	.130 .071 .021	
5.0	.152 .077 .022	.148 .076 .022	.140 .073 .021	.132 .070 .021	.125 .067 .020	
6.0	.145 .073 .021	.141 .071 .020	.134 .069 .020	.127 .066 .019	.121 .064 .019	
7.0	.138 .068 .019	.135 .067 .019	.128 .065 .019	.122 .063 .018	.117 .061 .018	
8.0	.132 .064 .018	.129 .063 .018	.123 .061 .018	.118 .060 .017	.113 .058 .017	
9.0	.126 .061 .017	.123 .060 .017	.118 .058 .017	.113 .057 .016	.109 .055 .016	
10.0	.121 .058 .016	.118 .057 .016	.113 .056 .016	.109 .054 .015	.105 .053 .015	

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	.210 .210 .210	.179 .179 .179	.122 .122 .122	.070 .070 .070	.022 .022 .022	
1.0	.191 .177 .164	.164 .152 .141	.112 .104 .097	.064 .060 .057	.021 .019 .018	
2.0	.177 .152 .131	.151 .131 .114	.104 .091 .079	.060 .053 .046	.019 .017 .015	
3.0	.165 .133 .108	.141 .115 .094	.097 .080 .066	.056 .047 .039	.018 .015 .013	
4.0	.155 .119 .091	.133 .103 .079	.091 .071 .056	.053 .042 .033	.017 .014 .011	
5.0	.146 .107 .079	.125 .093 .068	.086 .065 .048	.050 .038 .029	.016 .012 .009	
6.0	.139 .098 .069	.119 .085 .060	.082 .059 .042	.048 .035 .025	.015 .011 .008	
7.0	.132 .091 .061	.114 .079 .054	.079 .055 .038	.046 .032 .023	.015 .011 .007	
8.0	.127 .084 .056	.109 .073 .048	.075 .051 .034	.044 .030 .020	.014 .010 .007	
9.0	.122 .079 .051	.105 .069 .044	.073 .048 .032	.042 .029 .019	.014 .009 .006	
10.0	.117 .075 .047	.101 .065 .041	.070 .046 .029	.041 .027 .017	.013 .009 .006	

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QiuMing  
Test Date:2016-06-29

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity:65.0%  
Test Distance:6.250m [K=1.0000]  
Remarks:

### Uncorrected UGR Table

NAME:					TYPE:					WEIGHT:				
DIM.:					SPEC.:					SERIAL No.:				
MFR.: Rayconn					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	19.7	20.6	19.9	20.8	21.0	21.0	22.0	21.3	22.2	22.4				
3H	19.6	20.4	19.9	20.7	20.9	20.9	21.8	21.2	22.1	22.3				
4H	19.5	20.3	19.8	20.6	20.9	20.9	21.7	21.2	22.0	22.2				
6H	19.5	20.2	19.8	20.5	20.8	20.8	21.6	21.2	21.9	22.2				
8H	19.4	20.2	19.8	20.5	20.8	20.8	21.5	21.2	21.8	22.2				
12H	19.4	20.1	19.8	20.5	20.8	20.8	21.5	21.1	21.8	22.1				
4H 2H	19.5	20.3	19.8	20.6	20.8	20.8	21.7	21.1	21.9	22.2				
3H	19.4	20.1	19.8	20.4	20.8	20.7	21.5	21.1	21.8	22.1				
4H	19.4	20.0	19.8	20.4	20.7	20.7	21.3	21.1	21.7	22.0				
6H	19.4	19.9	19.8	20.3	20.7	20.7	21.2	21.1	21.6	22.0				
8H	19.4	19.9	19.8	20.3	20.7	20.7	21.2	21.1	21.6	22.0				
12H	19.4	19.9	19.8	20.3	20.7	20.7	21.1	21.1	21.6	22.0				
8H 4H	19.3	19.8	19.7	20.2	20.6	20.6	21.1	21.0	21.5	21.9				
6H	19.3	19.7	19.8	20.2	20.6	20.6	21.0	21.0	21.4	21.9				
8H	19.3	19.7	19.8	20.2	20.7	20.6	21.0	21.1	21.4	21.9				
12H	19.4	19.7	19.9	20.2	20.7	20.6	20.9	21.1	21.4	22.0				
12H 4H	19.2	19.7	19.7	20.1	20.6	20.5	21.0	21.0	21.4	21.9				
6H	19.3	19.6	19.8	20.1	20.6	20.5	20.9	21.0	21.4	21.9				
8H	19.3	19.6	19.8	20.1	20.6	20.6	20.9	21.1	21.4	21.9				
Variations with the observer position at spacings:														
S = 1.0H	+ 2.0 / - 4.4					+ 3.0 / - 5.1								
1.5H	+ 3.7 / - 3.6					+ 4.8 / - 4.7								
2.0H	+ 3.6 / - 2.1					+ 5.1 / - 3.1								

CIE Pub.117 Corrected 522.0 lm Total Lamp Luminous Flux.(8log(F/F0) = -2.3)

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QiuMing  
Test Date:2016-06-29

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity:65.0%  
Test Distance:6.250m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Rayconn	SUR.:	PROTECTION ANGLE:

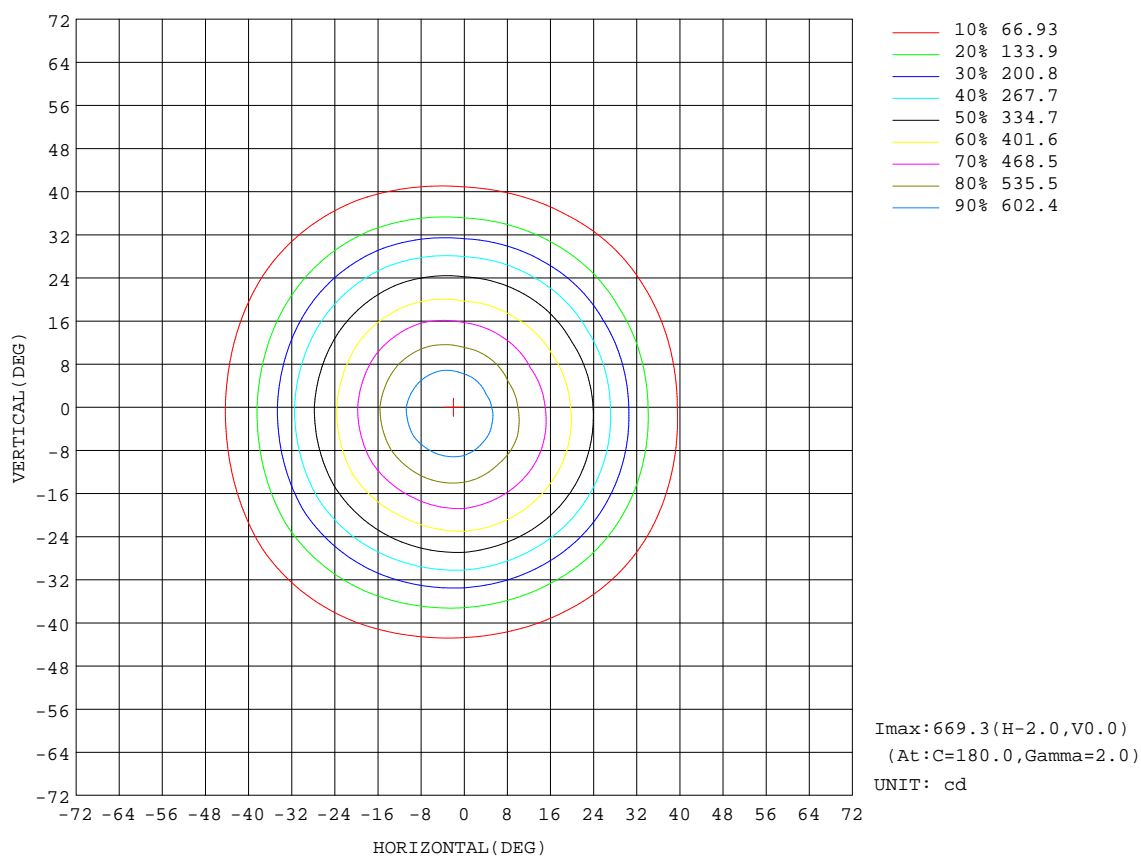
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	83	76	72	83	76	72	82	76	72	68
0.80	91	85	81	90	84	80	89	83	80	76
1.00	96	90	86	95	89	86	93	89	85	81
1.25	101	95	91	99	94	90	97	93	90	85
1.50	103	98	95	102	97	94	99	96	93	88
2.00	107	102	99	105	101	98	102	99	96	90
2.50	108	104	101	107	103	100	103	100	98	91
3.00	110	106	103	108	105	102	104	102	100	92
4.00	112	109	107	110	107	105	106	104	102	94
5.00	114	111	109	111	109	107	107	105	104	95
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: QiuMing  
Test Date: 2016-06-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity: 65.0%  
Test Distance: 6.250m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Rayconn	SUR.:	PROTECTION ANGLE:



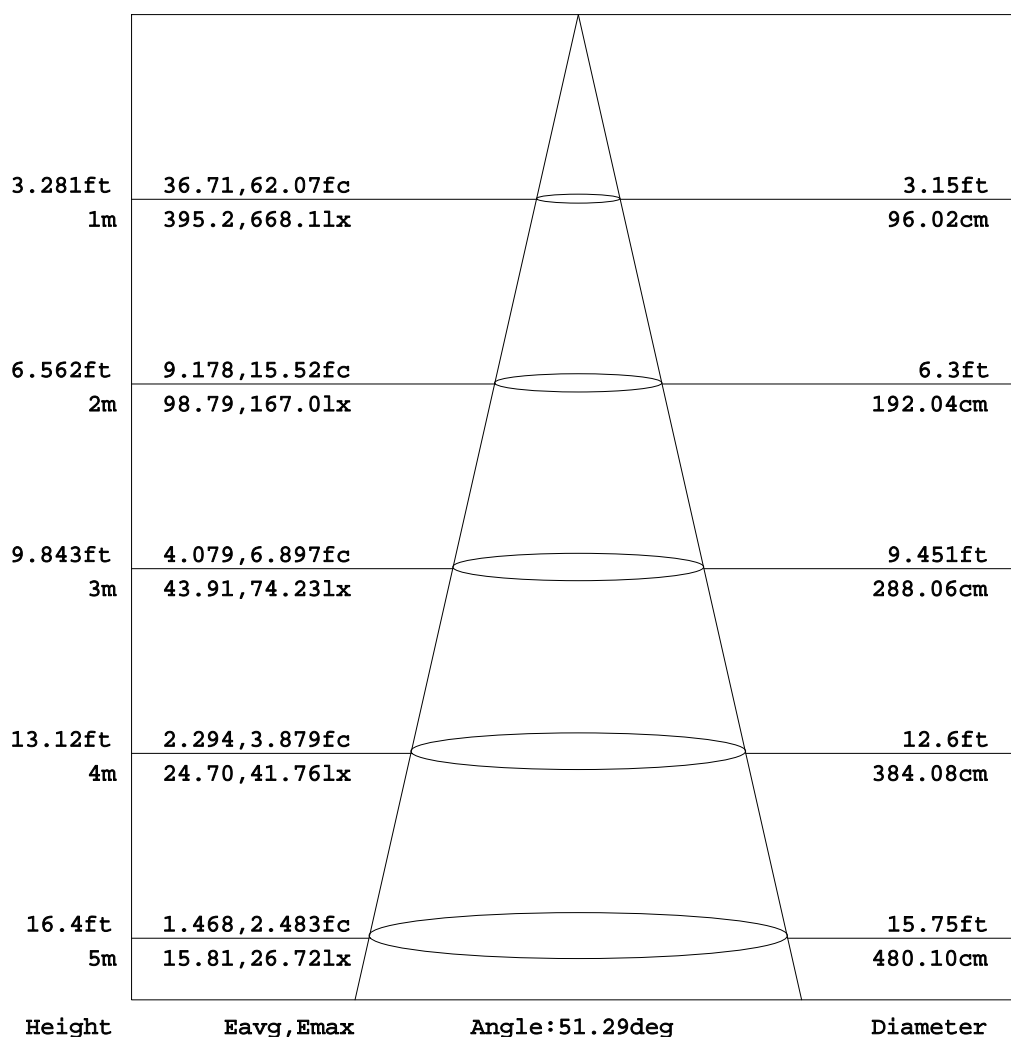
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: QiuMing  
Test Date: 2016-06-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity: 65.0%  
Test Distance: 6.250m [K=1.0000]  
Remarks:

### AAI Figure

NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Rayconn	SUR.:	PROTECTION ANGLE:

Flux out:295.3 lm



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

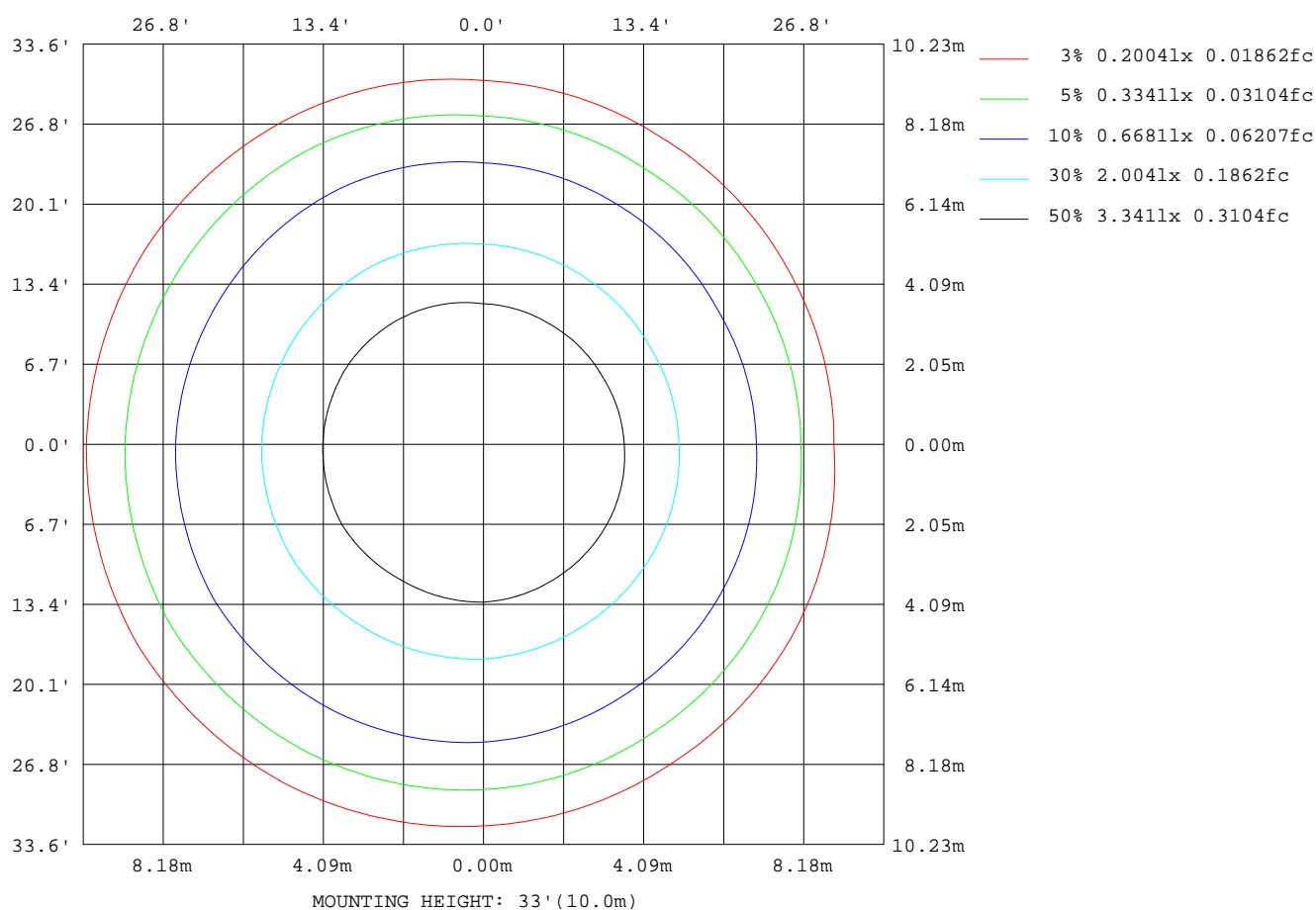
C Range: 0 - 360DEG  
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γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity: 65.0%  
Test Distance: 6.250m [K=1.0000]  
Remarks:



# ISOLUX DIAGRAM

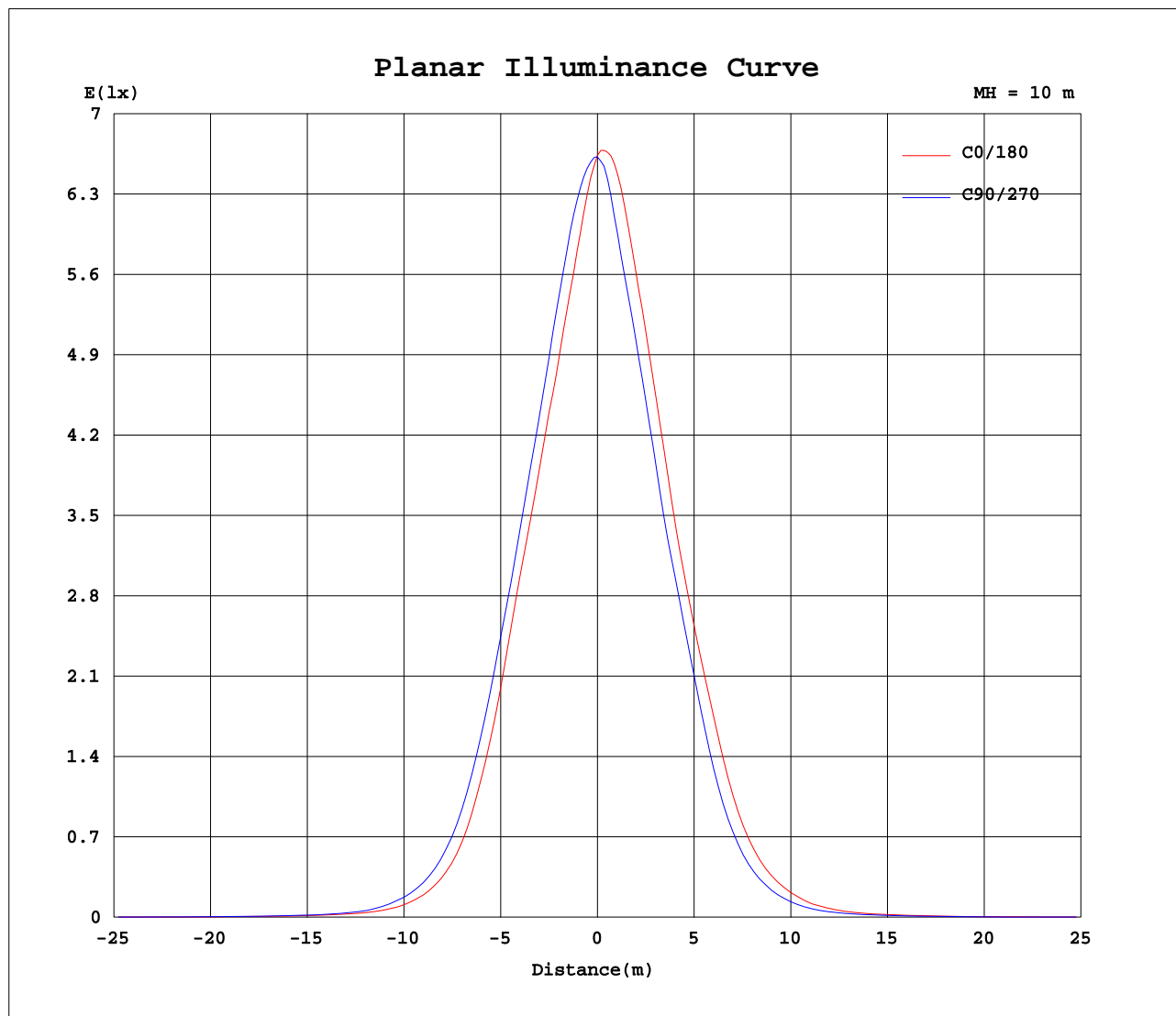
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Rayconn	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: QiuMing  
Test Date: 2016-06-29

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity: 65.0%  
Test Distance: 6.250m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: QiuMing  
Test Date: 2016-06-29

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity: 65.0%  
Test Distance: 6.250m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Rayconn	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	663	663	663	663	663	663	663	663	663	663	663	663							
5	603	615	631	643	652	660	663	656	639	618	606	598							
10	534	551	566	589	603	614	612	595	574	550	538	528							
15	468	486	500	521	535	546	545	529	509	479	465	459							
20	397	415	432	450	455	467	464	451	426	397	388	387							
25	312	331	351	368	376	386	380	365	347	321	309	302							
30	210	226	247	272	285	300	297	279	258	226	210	203							
35	119	133	149	171	189	200	194	177	160	136	122	114							
40	62.8	72.2	81.0	95.0	108	117	111	99.8	89.8	74.2	65.4	62.4							
45	30.9	37.4	42.9	49.5	57.8	63.4	61.0	55.8	47.9	38.3	33.8	31.3							
50	15.9	16.4	19.5	22.5	26.5	29.5	30.3	24.9	22.6	18.4	16.2	15.0							
55	9.99	10.4	11.4	12.6	13.7	14.3	15.3	13.4	12.5	10.9	9.72	9.52							
60	6.22	6.90	7.09	7.90	8.01	9.47	9.51	8.14	7.25	6.30	5.77	5.73							
65	3.33	3.75	4.06	4.71	4.87	5.13	5.21	4.75	4.06	3.30	3.22	3.11							
70	2.29	2.41	2.42	2.53	2.57	2.70	2.64	2.53	2.37	2.25	2.25	2.23							
75	1.70	1.76	1.82	1.91	1.91	1.95	1.93	1.92	1.81	1.73	1.70	1.69							
80	1.18	1.26	1.29	1.36	1.41	1.43	1.43	1.37	1.31	1.28	1.23	1.22							
85	0.82	0.94	0.91	0.92	1.12	1.00	1.04	1.16	1.03	0.92	0.93	0.91							
90	0.81	0.98	0.90	0.79	1.11	0.82	0.91	1.12	1.06	0.91	1.16	0.97							
95	0.89	1.09	1.00	0.85	1.20	0.86	0.98	1.29	1.23	1.00	1.35	1.05							
100	0.97	1.16	1.06	0.92	1.24	0.91	1.07	1.34	1.32	1.12	1.42	1.16							
105	1.10	1.21	1.16	1.02	1.33	1.00	1.18	1.48	1.42	1.26	1.50	1.29							
110	1.29	1.37	1.30	1.16	1.40	1.13	1.32	1.58	1.66	1.43	1.63	1.47							
115	1.51	1.54	1.48	1.35	1.51	1.32	1.50	1.67	1.73	1.63	1.78	1.67							
120	1.78	1.77	1.71	1.58	1.67	1.54	1.72	1.93	1.90	1.87	1.98	1.92							
125	2.08	2.05	1.99	1.86	1.89	1.80	1.97	2.04	2.14	2.14	2.22	2.20							
130	2.41	2.41	2.33	2.18	2.18	2.10	2.25	2.31	2.43	2.43	2.56	2.51							
135	2.75	2.76	2.68	2.52	2.54	2.44	2.55	2.63	2.75	2.75	2.89	2.82							
140	3.05	3.11	3.02	2.86	2.94	2.79	2.86	2.97	3.14	3.05	3.23	3.11							
145	3.32	3.44	3.38	3.16	3.29	3.11	3.15	3.26	3.40	3.32	3.59	3.38							
150	3.53	3.78	3.71	3.41	3.69	3.38	3.40	3.58	3.76	3.52	3.86	3.58							
155	3.67	3.84	3.75	3.60	3.85	3.63	3.59	3.68	3.81	3.65	3.85	3.71							
160	3.79	3.91	3.86	3.74	3.89	3.76	3.72	3.79	3.93	3.76	3.87	3.79							
165	3.84	3.85	3.84	3.84	3.83	3.82	3.82	3.89	4.10	3.85	3.85	3.83							
170	3.90	3.92	3.92	3.93	3.90	3.91	3.91	3.91	3.93	3.92	3.92	3.88							
175	3.98	4.01	3.99	4.01	3.99	3.99	4.00	3.98	4.01	3.99	4.00	3.96							
180	4.05	4.07	4.06	4.07	4.06	4.06	4.06	4.06	4.07	4.06	4.06	4.05							

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: QiuMing  
Test Date: 2016-06-29

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.265  
Humidity: 65.0%  
Test Distance: 6.250m [K=1.0000]  
Remarks: