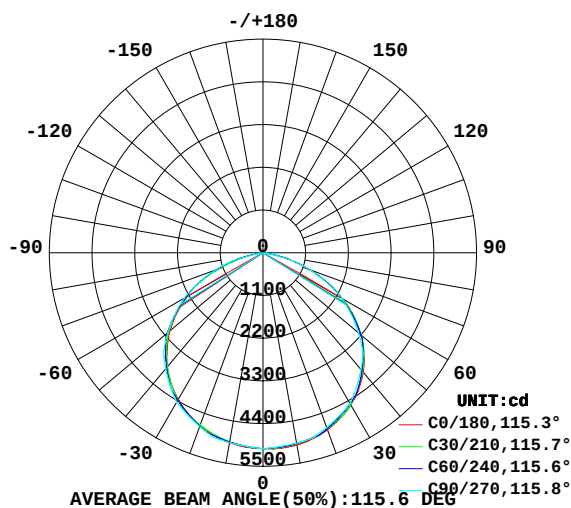


LUMINAIRE PHOTOMETRIC TEST REPORT

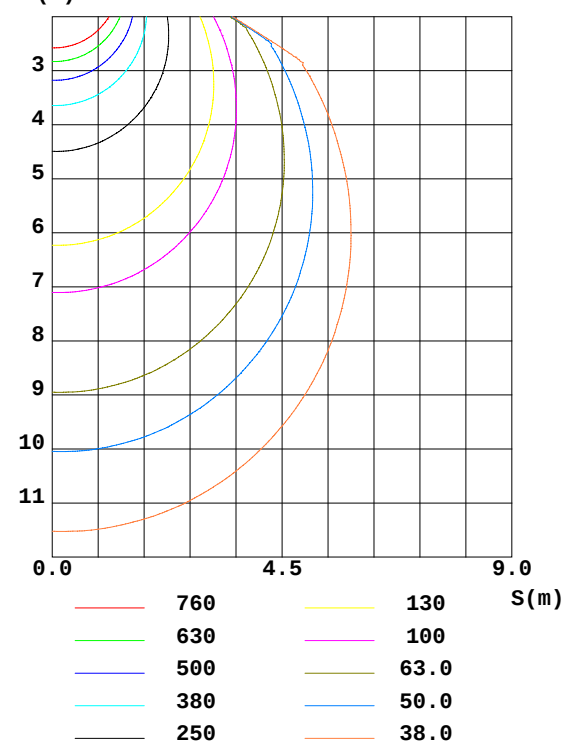
NAME: 满天星 150w 正白非CE非隔离	TYPE: 研发样机01	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 96.28 lm/W			
满天星 150w 正白非CE非隔离		I _{max} (cd)	5059	S/MH(C0/180)	1.33
NOMINAL POWER(W)	145.2	LOR(%)	100.0	S/MH(C90/270)	1.31
RATED VOLTAGE(V)	232.2	TOTAL FLUX(lm)	13980	η UP, DN(C0-180)	0.0, 50.1
NOMINAL FLUX(lm)	13979.7	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 49.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	232.2	η down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2017-09-25

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.266
 Humidity: 65.0%
 Test Distance: 10.110m [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
5	5056	5031	5010	5008	5025	5004	5003	5026	0- 5	120.2	120.2	0.86, 0.86
10	5028	4987	4976	4948	4968	4939	4961	4982	5- 10	357.3	477.5	3.42, 3.42
15	4959	4930	4941	4872	4872	4861	4920	4923	10- 15	585.8	1063	7.61, 7.61
20	4853	4854	4789	4774	4740	4761	4762	4841	15- 20	798.7	1862	13.3, 13.3
25	4705	4684	4638	4594	4563	4575	4605	4668	20- 25	986.4	2848	20.4, 20.4
30	4524	4486	4486	4378	4363	4360	4447	4464	25- 30	1147	3995	28.6, 28.6
35	4297	4267	4206	4153	4120	4133	4172	4249	30- 35	1273	5268	37.7, 37.7
40	4010	4015	3926	3894	3833	3879	3897	4000	35- 40	1354	6622	47.4, 47.4
45	3675	3659	3646	3543	3486	3527	3622	3646	40- 45	1392	8013	57.3, 57.3
50	3292	3282	3211	3179	3125	3169	3196	3271	45- 50	1380	9393	67.2, 67.2
55	2862	2884	2776	2800	2710	2797	2770	2876	50- 55	1308	10701	76.5, 76.5
60	2368	2355	2341	2290	2240	2287	2345	2351	55- 60	1183	11884	85, 85
65	0	1825	1808	1779	0	1776	1821	1831	60- 65	899.5	12783	91.4, 91.4
70	0	1295	1275	1271	0	1255	1298	1308	65- 70	613.9	13397	95.8, 95.8
75	0	781.9	742.1	771.3	0	719.1	774.6	796.4	70- 75	392.9	13790	98.6, 98.6
80	0	283.0	0	286.6	0	217.8	0	294.9	75- 80	173.3	13963	99.9, 99.9
85	0	0	0	0	0	0	0	0	80- 85	16.30	13980	100, 100
90	0	0	0	0	0	0	0	0	85- 90	0	13980	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			

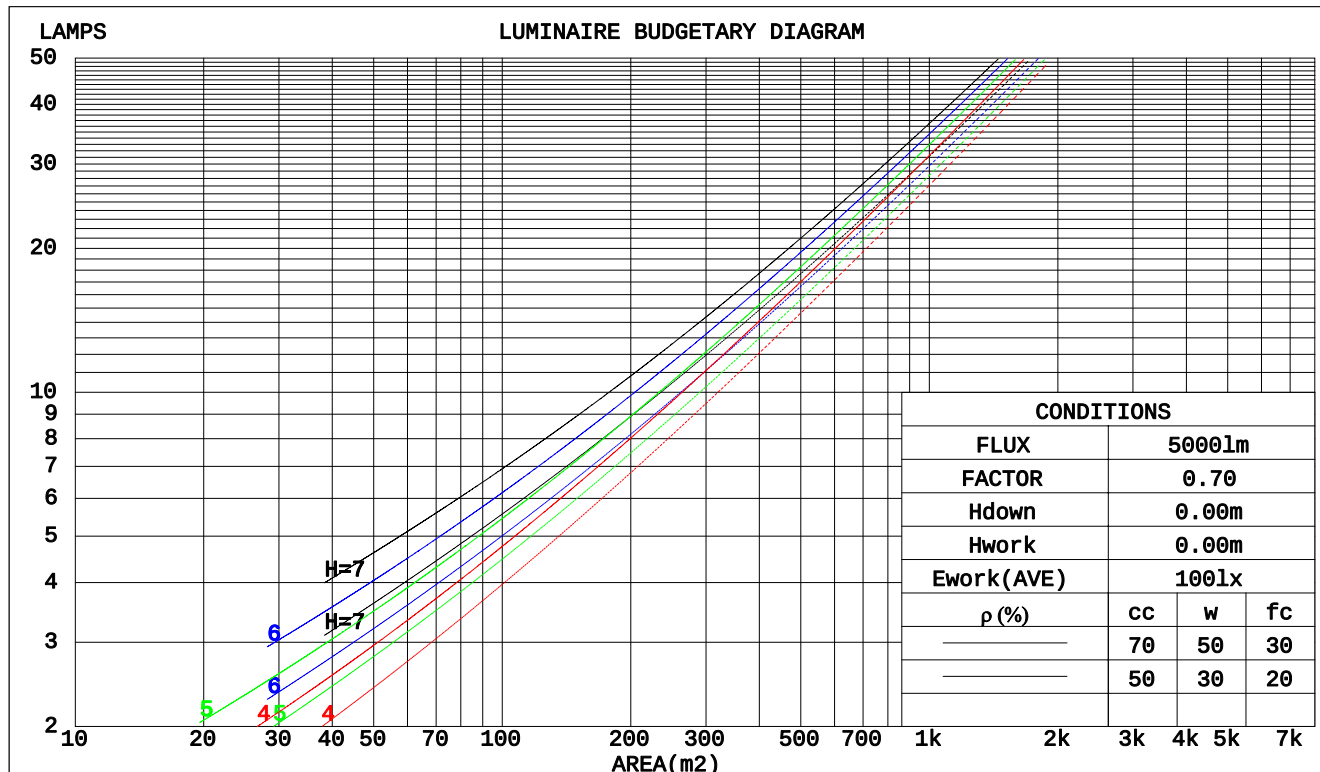
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2017-09-25

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 γ Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.266
 Humidity: 65.0%
 Test Distance: 10.110m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: 满天星 150w 正白非CE非隔离	TYPE:研发样机01	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.06	1.02	.98	1.03	.00	.97	.99	.96	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.93	.87	.81	.91	.85	.80	.87	.83	.78	.84	.80	.77	.81	.78	.75	.73
3.0	.82	.74	.68	.80	.73	.67	.77	.71	.66	.75	.69	.65	.72	.68	.64	.62
4.0	.73	.64	.58	.71	.63	.57	.69	.62	.57	.67	.61	.56	.64	.59	.55	.53
5.0	.65	.56	.50	.64	.56	.49	.62	.54	.49	.60	.53	.48	.58	.52	.48	.46
6.0	.58	.50	.43	.57	.49	.43	.56	.48	.43	.54	.47	.42	.52	.47	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.51	.43	.38	.49	.43	.38	.48	.42	.37	.35
8.0	.48	.40	.34	.48	.40	.34	.46	.39	.34	.45	.38	.34	.44	.38	.33	.31
9.0	.44	.36	.31	.44	.36	.31	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.27	.38	.32	.27	.37	.32	.27	.26



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2017-09-25

```

Range: 0 - 90DEG
Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.266
Humidity:65.0%
Test Distance:10.110m [K=1.0000]
Remarks:

```

WEC AND CCEC

NAME: 满天星 150w 正白非CE非隔离	TYPE:研发样机01	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

ρ _{CC}	80%			70%			50%			30%			10%			0	
ρ _W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ _{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.275	.156	.050	.268	.153	.049	.255	.146	.047	.243	.140	.045	.232	.134	.043		
2.0	.269	.147	.045	.263	.145	.045	.251	.140	.043	.240	.135	.042	.231	.130	.041		
3.0	.254	.135	.040	.249	.133	.040	.238	.129	.039	.229	.126	.039	.220	.122	.038		
4.0	.238	.124	.036	.233	.122	.036	.224	.119	.035	.216	.116	.035	.208	.113	.034		
5.0	.222	.113	.033	.218	.112	.033	.210	.109	.032	.202	.107	.032	.195	.104	.031		
6.0	.207	.104	.030	.204	.103	.030	.197	.101	.029	.190	.099	.029	.184	.097	.029		
7.0	.194	.096	.027	.191	.095	.027	.184	.093	.027	.178	.091	.027	.173	.090	.026		
8.0	.182	.089	.025	.179	.088	.025	.173	.087	.025	.168	.085	.025	.163	.084	.024		
9.0	.171	.083	.023	.168	.082	.023	.163	.081	.023	.158	.079	.023	.154	.078	.023		
10.0	.161	.077	.021	.159	.077	.021	.154	.076	.021	.150	.074	.021	.146	.073	.021		

ρ _{CC}	80%			70%			50%			30%			10%			0
ρ _W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ _{fc}	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	.178	.156	.137	.152	.134	.118	.104	.092	.082	.060	.053	.047	.019	.017	.015	
2.0	.169	.132	.101	.145	.114	.087	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.161	.114	.077	.138	.099	.066	.095	.068	.047	.055	.040	.027	.018	.013	.009	
4.0	.154	.101	.060	.132	.087	.052	.091	.061	.037	.053	.036	.022	.017	.012	.007	
5.0	.147	.090	.048	.126	.078	.042	.087	.055	.030	.050	.032	.018	.016	.010	.006	
6.0	.140	.082	.040	.120	.071	.035	.083	.050	.025	.048	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.115	.065	.029	.079	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.127	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.026	.105	.056	.022	.073	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-09-25

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.266
 Humidity:65.0%
 Test Distance:10.110m [K=1.0000]
 Remarks:

Uncorrected UGR Table

NAME: 满天星 150w 正白非CE非隔离						TYPE:研发样机01				WEIGHT:	
DIM.:						SPEC.:				SERIAL No.:	
MFR.:						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						26.4	27.9	26.7	28.1	28.3	26.7
3H						26.3	27.7	26.6	27.9	28.2	28.2
4H						26.2	27.5	26.5	27.8	28.0	28.3
6H						26.1	27.3	26.5	27.6	27.9	28.3
8H						26.1	27.2	26.4	27.5	27.8	28.3
12H						26.0	27.1	26.4	27.4	27.7	28.3
4H 2H						27.1	28.3	27.4	28.6	28.8	27.3
3H						27.5	28.6	27.8	28.9	29.2	28.5
4H						27.4	28.4	27.8	28.7	29.1	28.2
6H						27.3	28.2	27.7	28.6	28.9	28.3
8H						27.3	28.1	27.7	28.5	28.9	28.6
12H						27.2	28.0	27.7	28.4	28.8	28.3
8H 4H						27.7	28.5	28.1	28.9	29.3	28.3
6H						27.7	28.4	28.1	28.8	29.2	28.6
8H						27.7	28.3	28.1	28.7	29.1	28.3
12H						27.6	28.1	28.1	28.6	29.1	28.6
12H 4H						27.7	28.4	28.1	28.8	29.2	28.3
6H						27.7	28.3	28.1	28.7	29.1	28.6
8H						27.6	28.2	28.1	28.6	29.1	28.3
Variations with the observer position at spacings:											
S = 1.0H						+ 0.6 / - 0.6					+ 0.3 / - 0.3
1.5H						+ 0.7 / - 0.9					+ 0.2 / - 0.4
2.0H						+ 0.5 / - 1.3					+ 0.3 / - 0.3

CIE Pub.117 Corrected 13980 lm Total Lamp Luminous Flux.(8log(F/F0) = 9.2)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-09-25

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.266
 Humidity:65.0%
 Test Distance:10.110m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

NAME: 满天星 150w 正白非CE非隔离	TYPE:研发样机01	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

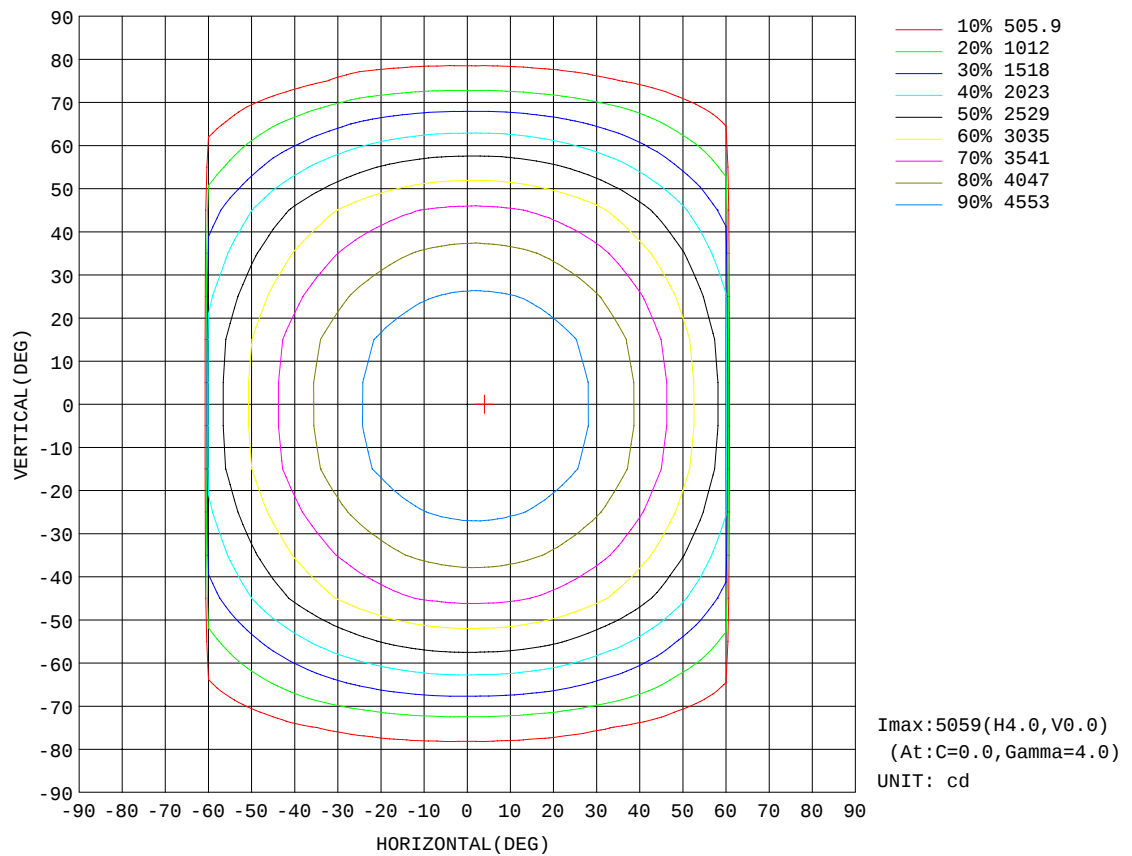
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	47	40	58	47	40	57	46	40	34
0.80	69	58	51	68	57	51	66	57	50	43
1.00	78	67	60	77	67	60	75	68	60	53
1.25	85	75	69	84	75	68	81	73	68	61
1.50	90	81	75	89	80	74	86	79	73	66
2.00	97	89	83	95	88	83	92	86	81	74
2.50	101	94	88	99	92	87	95	90	85	78
3.00	104	98	93	102	96	92	98	93	90	81
4.00	108	103	98	105	101	97	101	98	94	86
5.00	110	106	102	108	104	100	103	100	97	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-09-25

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.266
 Humidity:65.0%
 Test Distance:10.110m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

NAME: 满天星 150w 正白非CE非隔离	TYPE: 研发样机01	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

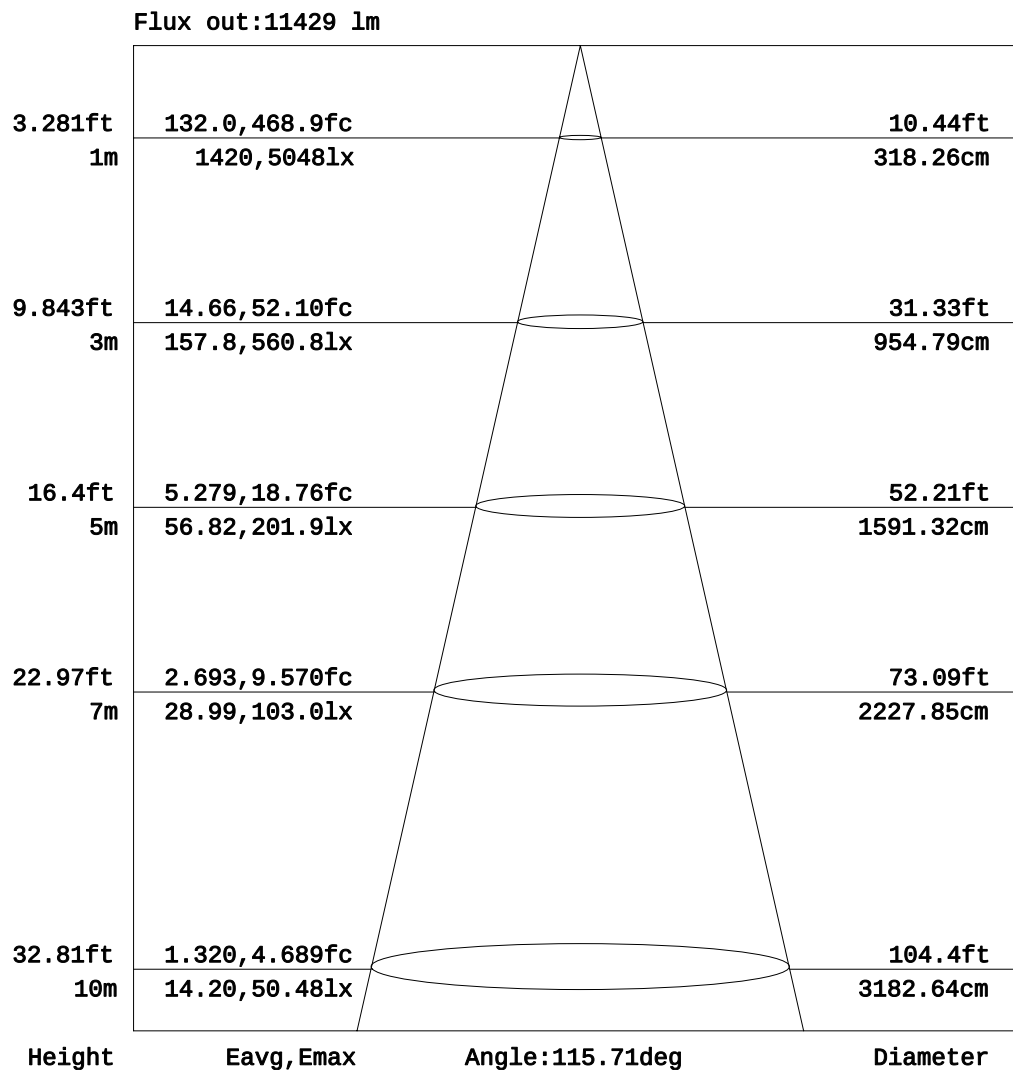


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2017-09-25

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.266
Humidity: 65.0%
Test Distance: 10.110m [K=1.0000]
Remarks:

AAI Figure

NAME: 满天星 150w 正白非CE非隔离	TYPE:研发样机01	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



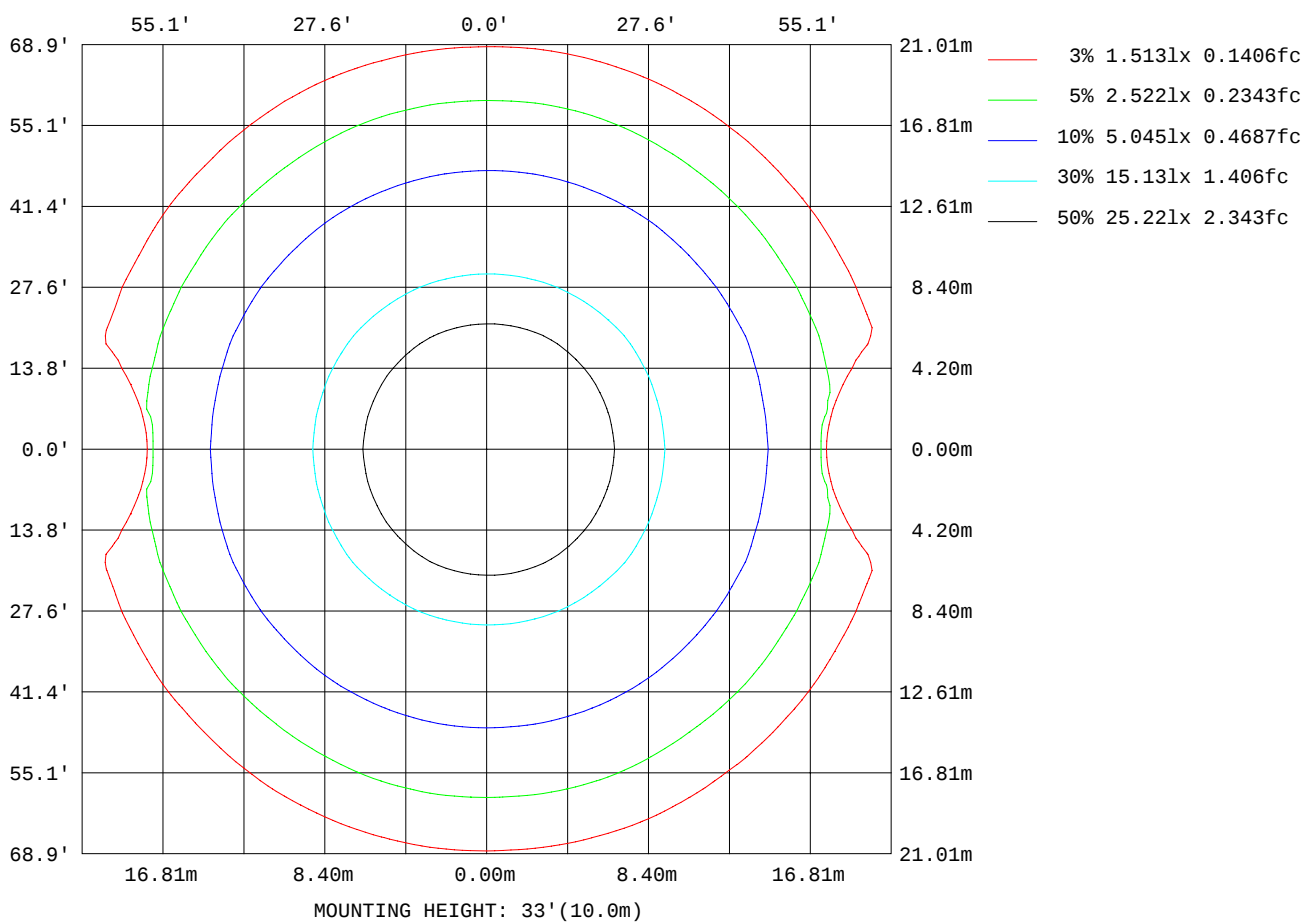
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2017-09-25

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.266
Humidity: 65.0%
Test Distance: 10.110m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

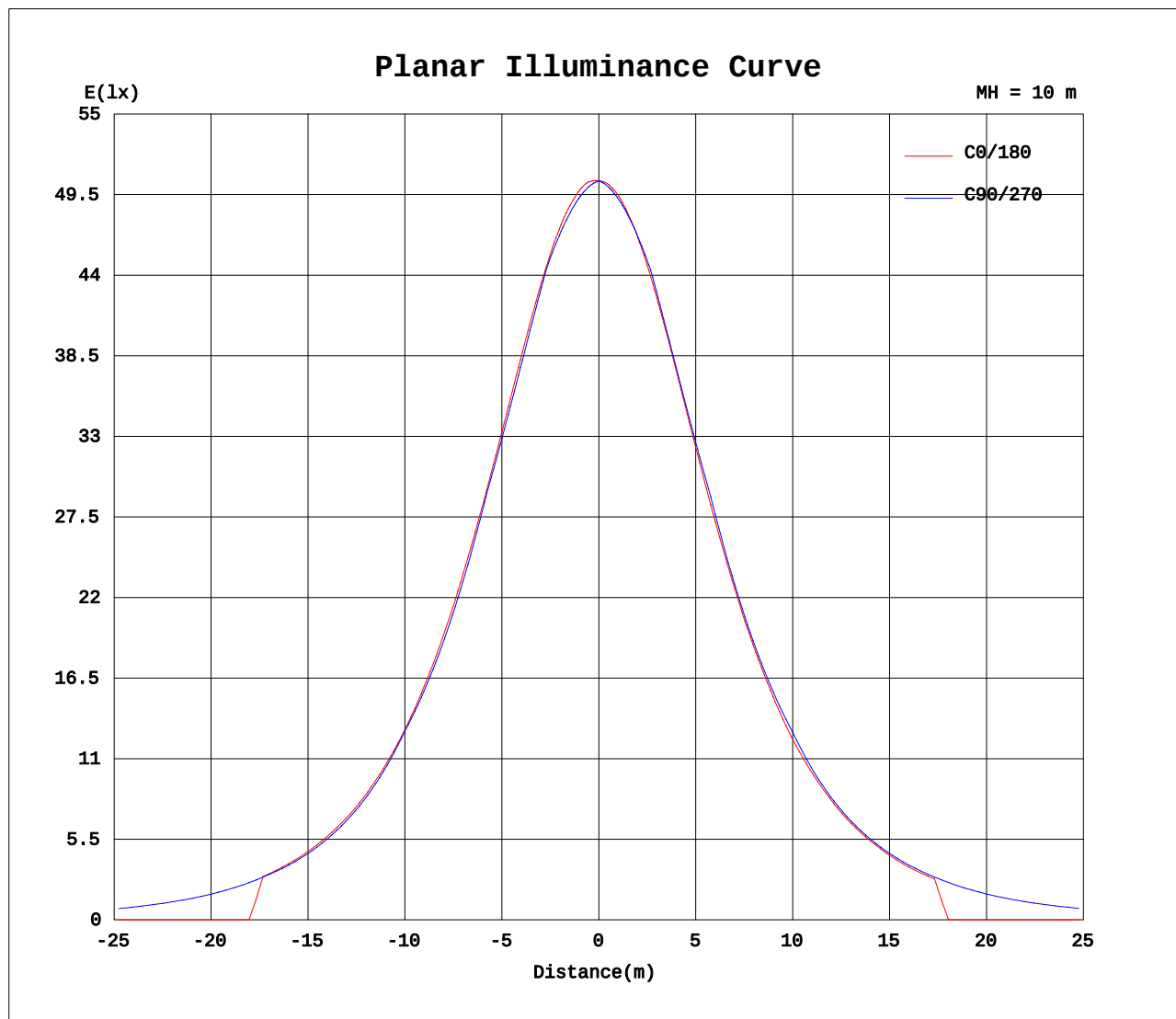
NAME: 满天星 150w 正白非CE非隔离	TYPE: 研发样机01	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2017-09-25

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.266
Humidity: 65.0%
Test Distance: 10.110m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2017-09-25

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.266
Humidity: 65.0%
Test Distance: 10.110m [K=1.0000]
Remarks: