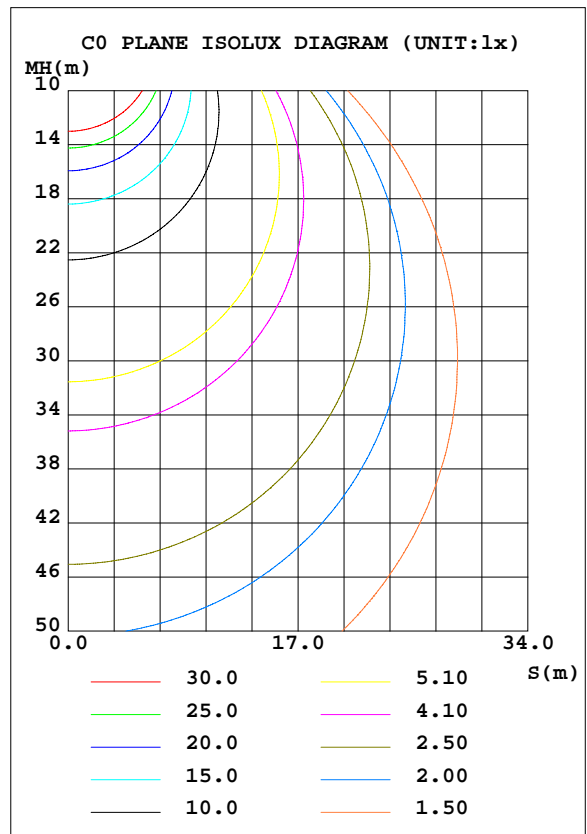
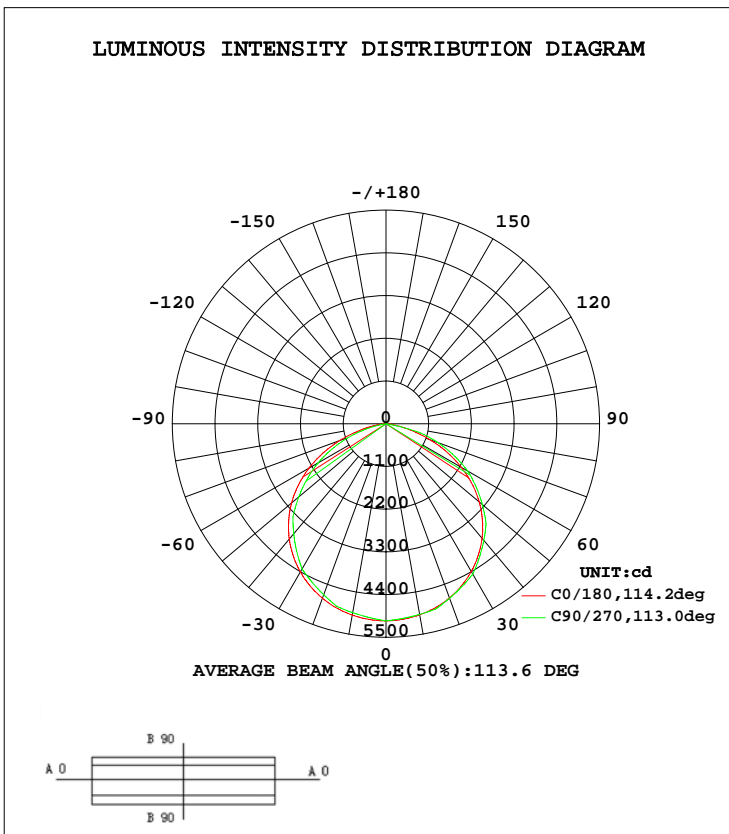


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.1V I:0.4930A P:102.7W PF:0.9450 Lamp Flux:14173.3x1 lm		
NAME: 高棚灯	TYPE:室外	WEIGHT:2
SPEC.:GP-B-100W	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 138.01 lm/W			
MODEL		I _{max} (cd)	5076	S/MH(C0/180)	1.29
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	14173	η UP, DN(C0-180)	0.0, 51.7
NOMINAL FLUX(lm)	14173.3	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 48.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.2	η down(%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-02-22

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [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	5054	5032	5030	5035	5058	5020	5008	5016	0- 5	120.7	120.7	0.85,0.85
10	4996	4971	4985	4977	5002	4944	4940	4938	5- 10	357.4	478.1	3.37,3.37
15	4906	4893	4940	4902	4912	4853	4872	4843	10- 15	584.1	1062	7.49,7.49
20	4774	4797	4784	4808	4782	4742	4688	4730	15- 20	794.2	1856	13.1,13.1
25	4601	4614	4627	4627	4614	4541	4504	4527	20- 25	977.7	2834	20,20
30	4391	4401	4471	4416	4408	4309	4320	4293	25- 30	1132	3966	28,28
35	4140	4174	4195	4188	4161	4061	4009	4044	30- 35	1251	5217	36.8,36.8
40	3848	3916	3920	3932	3874	3781	3697	3762	35- 40	1325	6543	46.2,46.2
45	3511	3562	3645	3586	3546	3404	3386	3377	40- 45	1356	7898	55.7,55.7
50	3133	3198	3239	3229	3174	3016	2932	2981	45- 50	1337	9236	65.2,65.2
55	2708	2820	2833	2858	2752	2610	2479	2571	50- 55	1262	10498	74.1,74.1
60	2239	2337	2427	2372	2289	2100	2025	2061	55- 60	1136	11634	82.1,82.1
65	1730	1857	1926	1884	1791	1594	1522	1560	60- 65	963.0	12597	88.9,88.9
70	1206	1370	1425	1393	1272	1106	1019	1079	65- 70	749.9	13347	94.2,94.2
75	699.9	877.8	924.0	903.2	753.7	651.5	516.7	621.5	70- 75	514.7	13861	97.8,97.8
80	313.1	376.3	0	397.7	359.6	220.8	0	196.5	75- 80	259.8	14121	99.6,99.6
85	32.96	0	0	0	70.67	0	0	0	80- 85	50.18	14171	100,100
90	2.198	0	0	0	3.591	0	0	0	85- 90	2.050	14173	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			

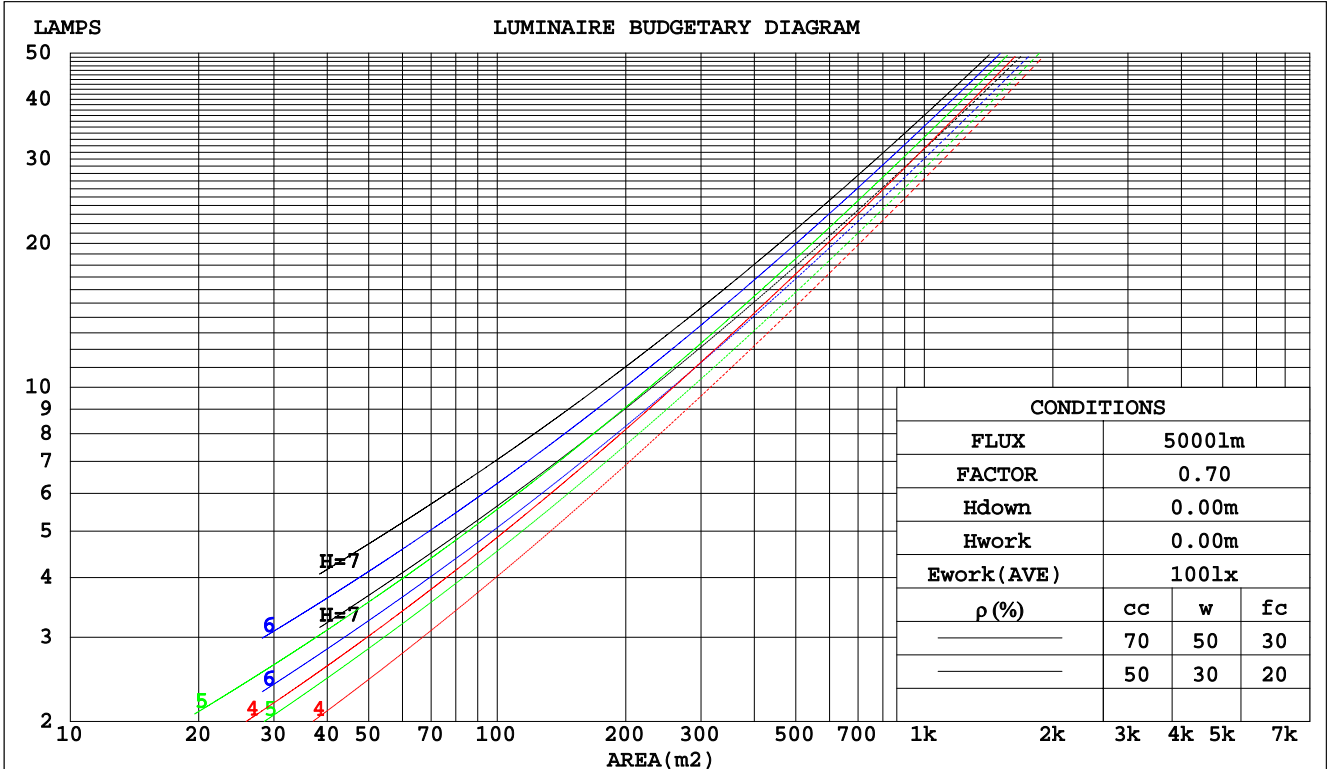
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-02-22

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: 196合1

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.1V I:0.4930A P:102.7W PF:0.9450 Lamp Flux:14173.3x1 lm		
NAME: 高棚灯	TYPE:室外	WEIGHT:2
SPEC.:GP-B-100W	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc																0
RCR	RCR:Room Cavity Ratio			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	.00
1.0	1.05	1.01	.98	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.87	.85
2.0	.92	.85	.80	.90	.84	.79	.87	.81	.77	.83	.79	.75	.80	.77	.74	.72
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.66	.63	.60
4.0	.72	.63	.56	.70	.62	.56	.68	.61	.55	.65	.59	.54	.63	.58	.54	.52
5.0	.64	.55	.49	.63	.55	.48	.61	.53	.48	.59	.52	.47	.57	.51	.47	.45
6.0	.58	.49	.42	.57	.48	.42	.55	.47	.42	.53	.46	.41	.52	.46	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.50	.42	.37	.48	.42	.37	.47	.41	.36	.34
8.0	.48	.39	.33	.47	.39	.33	.46	.38	.33	.44	.38	.33	.43	.37	.33	.31
9.0	.44	.35	.30	.43	.35	.30	.42	.35	.30	.41	.34	.29	.40	.34	.29	.28
10.0	.40	.32	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.27	.25



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-02-22

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: 196合1

WEC AND CCEC

Test:U:220.1V I:0.4930A P:102.7W PF:0.9450 Lamp Flux:14173.3x1 lm		
NAME: 高棚灯	TYPE:室外	WEIGHT:2
SPEC.:GP-B-100W	DIM.:	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	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.287	.163	.052	.280	.159	.051	.266	.153	.049	.254	.147	.047	.243	.141	.045	
2.0	.278	.152	.047	.271	.150	.046	.260	.145	.045	.249	.140	.044	.239	.135	.043	
3.0	.261	.139	.042	.255	.137	.041	.245	.133	.040	.235	.129	.040	.227	.126	.039	
4.0	.243	.126	.037	.238	.124	.037	.229	.121	.036	.220	.118	.036	.213	.115	.035	
5.0	.226	.115	.033	.221	.114	.033	.213	.111	.033	.206	.109	.032	.199	.106	.032	
6.0	.210	.105	.030	.206	.104	.030	.199	.102	.030	.192	.100	.029	.186	.098	.029	
7.0	.196	.097	.027	.193	.096	.027	.186	.094	.027	.180	.092	.027	.175	.091	.027	
8.0	.184	.090	.025	.181	.089	.025	.175	.087	.025	.169	.086	.025	.164	.084	.025	
9.0	.172	.083	.023	.170	.083	.023	.165	.081	.023	.160	.080	.023	.155	.079	.023	
10.0	.162	.078	.022	.160	.077	.022	.155	.076	.021	.151	.075	.021	.147	.074	.021	

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	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	.179	.156	.136	.153	.134	.117	.105	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.170	.132	.100	.146	.114	.086	.100	.079	.060	.058	.046	.035	.018	.015	.011	
3.0	.163	.114	.076	.139	.099	.066	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.059	.133	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.141	.082	.040	.121	.071	.035	.084	.050	.024	.049	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.116	.065	.029	.080	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.128	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.025	.105	.056	.022	.073	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.117	.060	.023	.100	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-02-22

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: 196合1

UGR(Unified Glare Rating) Table

Test:U:220.1V I:0.4930A P:102.7W PF:0.9450 Lamp Flux:14173.3x1 lm										
NAME: 高棚灯					TYPE:室外			WEIGHT:2		
SPEC.:GP-B-100W					DIM.:			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	28.2	27.0	28.4	28.6
3H	27.7	29.1	28.0	29.3	29.5	28.2	29.5	28.5	29.8	30.0
4H	28.0	29.3	28.3	29.6	29.8	28.7	30.0	29.0	30.2	30.5
6H	28.2	29.4	28.5	29.7	29.9	28.7	29.9	29.0	30.2	30.5
8H	28.1	29.3	28.5	29.6	29.9	28.6	29.8	29.0	30.1	30.4
12H	28.1	29.2	28.5	29.5	29.8	28.6	29.7	28.9	30.0	30.3
4H 2H	27.1	28.4	27.4	28.6	28.9	27.3	28.6	27.6	28.8	29.1
3H	28.5	29.6	28.8	29.9	30.2	28.9	30.0	29.2	30.3	30.6
4H	28.9	30.0	29.3	30.3	30.6	29.5	30.5	29.9	30.8	31.2
6H	29.1	30.0	29.5	30.4	30.8	29.6	30.5	30.0	30.8	31.2
8H	29.1	30.0	29.6	30.4	30.7	29.5	30.4	29.9	30.7	31.1
12H	29.1	29.9	29.5	30.3	30.7	29.5	30.3	29.9	30.6	31.0
8H 4H	29.1	30.0	29.6	30.4	30.7	29.7	30.5	30.1	30.9	31.3
6H	29.4	30.1	29.9	30.6	31.0	29.8	30.5	30.2	30.9	31.3
8H	29.5	30.1	30.0	30.5	31.0	29.7	30.3	30.2	30.8	31.2
12H	29.5	30.0	30.0	30.5	30.9	29.7	30.2	30.2	30.7	31.1
12H 4H	29.1	29.9	29.5	30.3	30.7	29.6	30.4	30.1	30.8	31.2
6H	29.4	30.1	29.9	30.5	30.9	29.8	30.4	30.2	30.8	31.2
8H	29.5	30.0	30.0	30.5	30.9	29.7	30.2	30.2	30.7	31.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				
2.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 14173 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:2016-02-22

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks: 196合1

UTILIZATION FACTORS TABLE

Test:U:220.1V I:0.4930A P:102.7W PF:0.9450 Lamp Flux:14173.3x1 lm		
NAME: 高棚灯	TYPE:室外	WEIGHT:2
SPEC.:GP-B-100W	DIM.:	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	58	47	40	57	46	40	56	46	39	33
0.80	68	57	50	67	57	50	66	56	49	42
1.00	77	66	59	76	66	59	74	67	58	51
1.25	84	74	67	83	73	67	80	72	66	59
1.50	89	80	73	88	79	73	85	77	72	64
2.00	96	88	82	94	87	81	91	85	80	72
2.50	100	93	87	98	91	86	94	89	84	76
3.00	103	97	92	101	95	91	97	92	88	80
4.00	107	102	98	105	100	96	101	97	94	85
5.00	110	105	101	107	103	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:2016-02-22

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: 196合1

ISOCANDELA DIAGRAM

Test:U:220.1V I:0.4930A P:102.7W PF:0.9450 Lamp Flux:14173.3x1 lm		
NAME: 高棚灯	TYPE:室外	WEIGHT:2
SPEC.:GP-B-100W	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

7898.3 lm

%lum = 55.7%

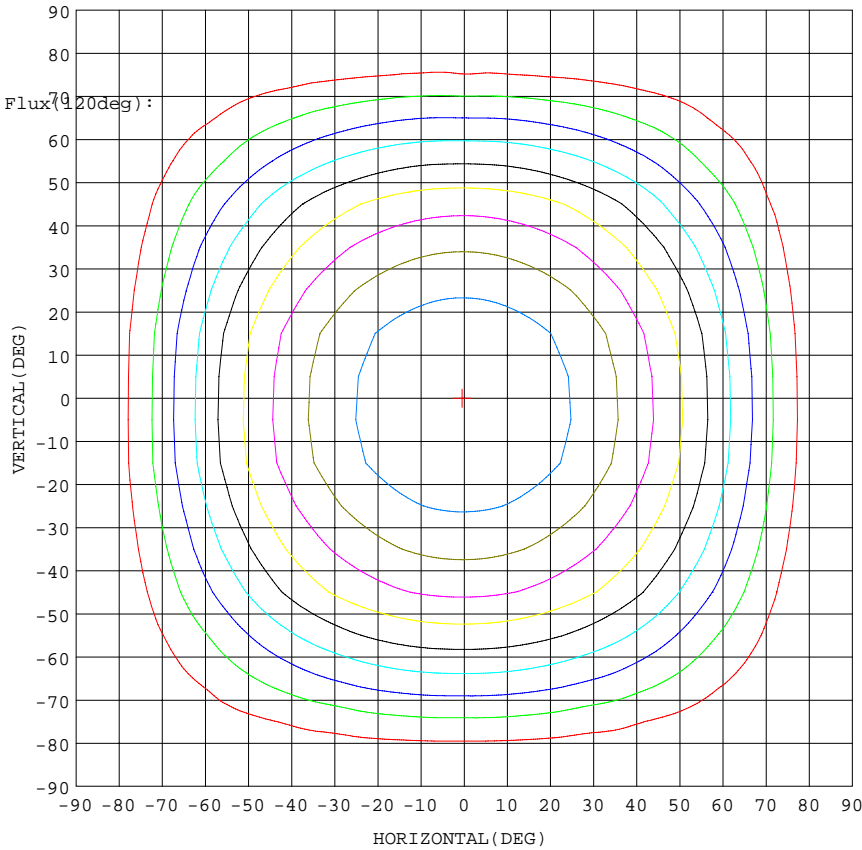
%lamp = 55.7%

Conical surface Flux(70deg):

11634 lm

%lum = 82.1%

%lamp = 82.1%



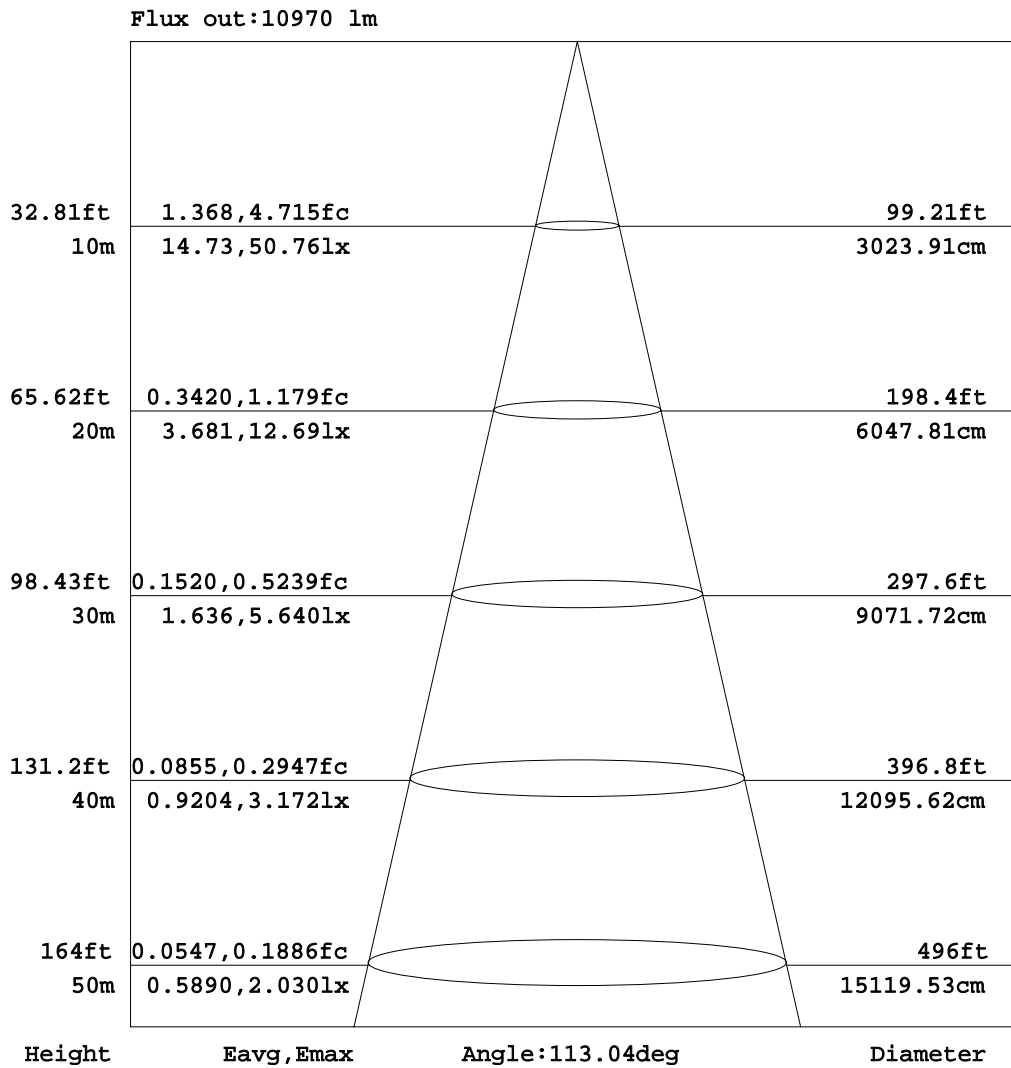
I_{max}:5076(H-0.5,V0.0)
 (At:C=180.0,Gamma=0.5)
 UNIT: cd

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-02-22

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: 196合1

AAI Figure

Test:U:220.1V I:0.4930A P:102.7W PF:0.9450 Lamp Flux:14173.3x1 lm		
NAME: 高棚灯	TYPE:室外	WEIGHT:2
SPEC.:GP-B-100W	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



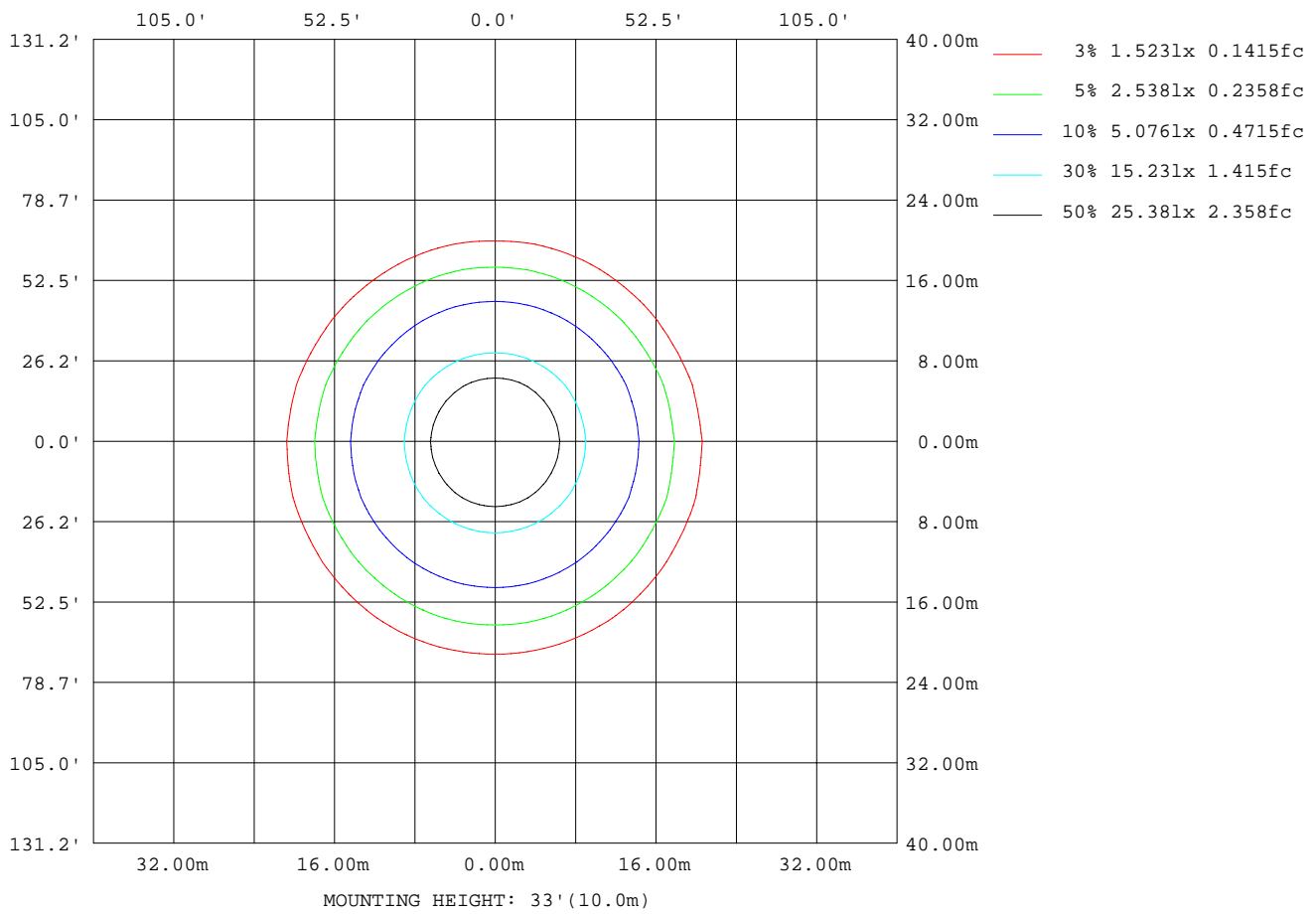
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2016-02-22

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: 196合1

ISOLUX DIAGRAM

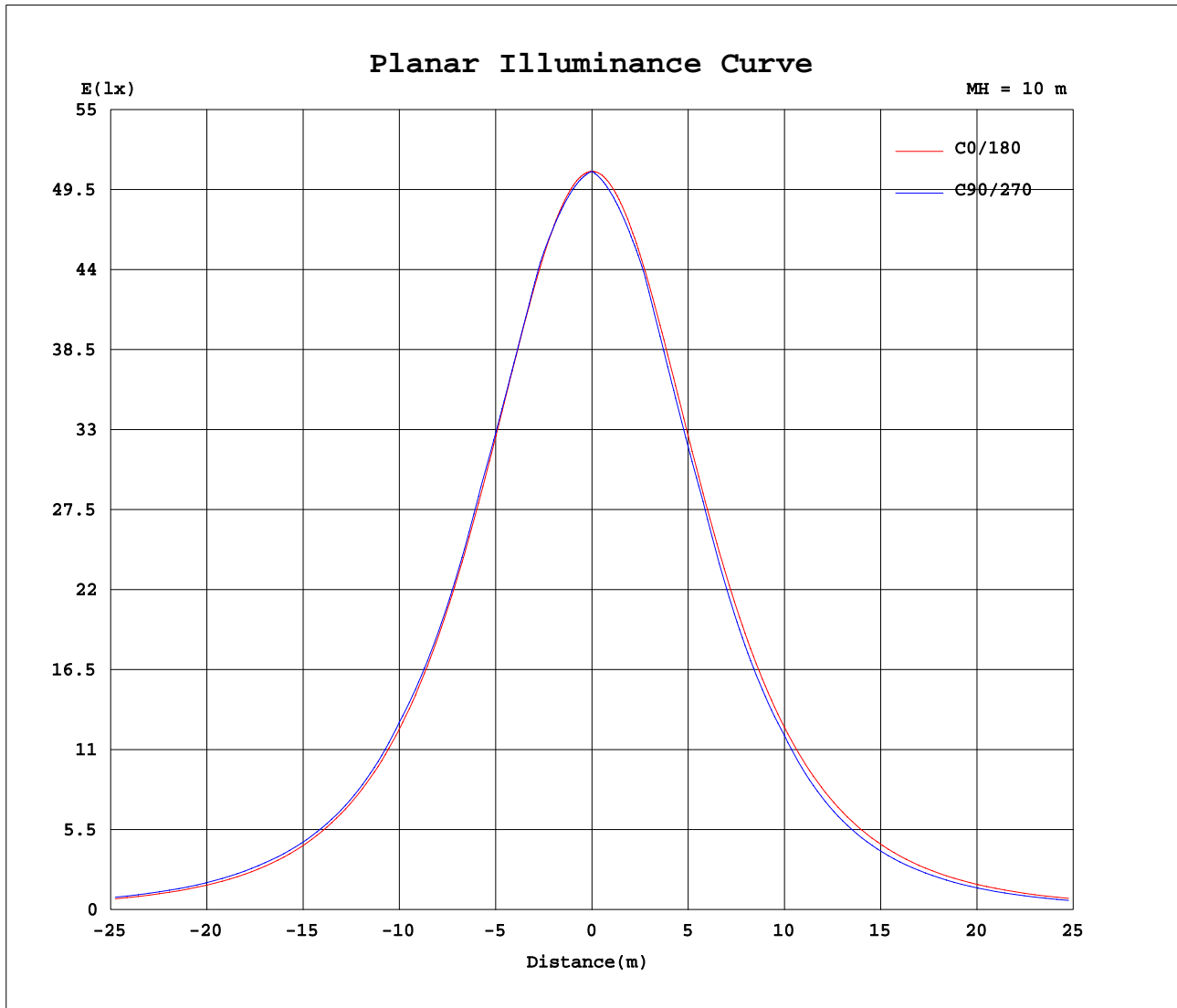
Test:U:220.1V I:0.4930A P:102.7W PF:0.9450 Lamp Flux:14173.3x1 lm		
NAME: 高棚灯	TYPE: 室外	WEIGHT: 2
SPEC.: GP-B-100W	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2016-02-22

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity: 65.0%
 Test Distance: 8.000m [K=1.0000]
 Remarks: 196合1

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2016-02-22

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity: 65.0%
 Test Distance: 8.000m [K=1.0000]
 Remarks: 196合1

