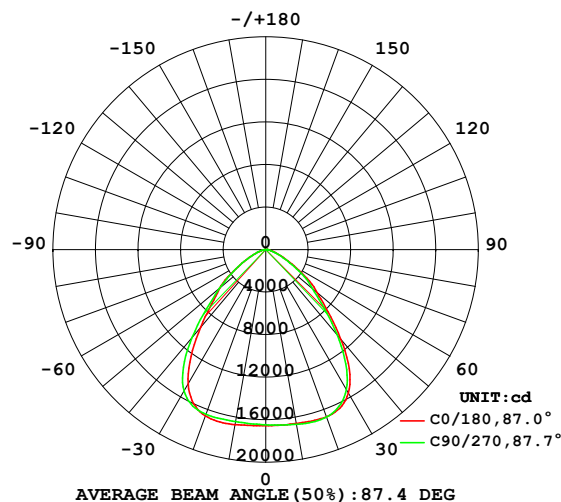


## LUMINAIRE PHOTOMETRIC TEST REPORT

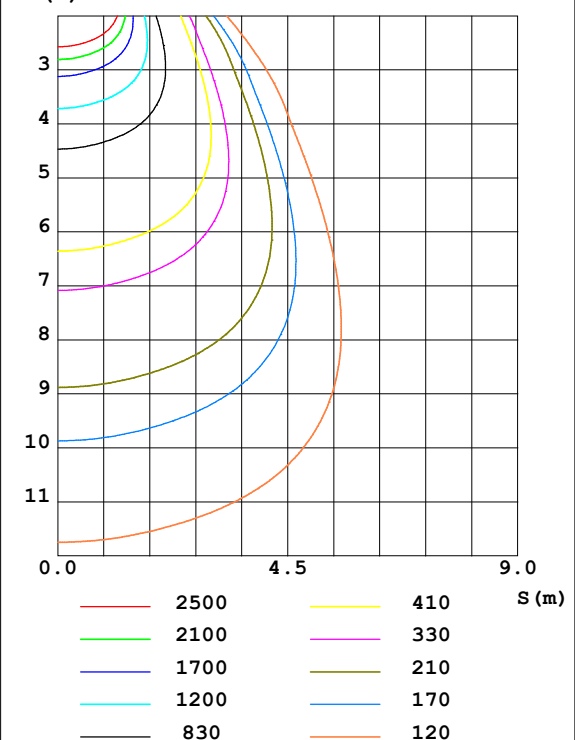
NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi 350 \times H170MM$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi 0.350$	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 171.68 lm/W
MODEL	UFO200W-90D	Imax(cd)	16825	S/MH(C0/180)	1.26	
NOMINAL POWER(W)	199.4	LOR(%)	100.0	S/MH(C90/270)	1.25	
RATED VOLTAGE(V)	236	TOTAL FLUX(lm)	34232	$\eta$ UP,DN(C0-180)	0.0,51.3	
NOMINAL FLUX(lm)	34232	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,48.7	
LAMPS INSIDE	1	$\eta$ up(%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	236.0	$\eta$ down(%)	100.0	CIBSE SHR MAX	1.25	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: chen xue chang  
Test Date: 2022-03-29

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 7.300m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1660	1663	1669	1667	1671	1653	1642	1641	0- 10	1579	1579	4.61,4.61
20	1672	1676	1676	1670	1664	1658	1648	1646	10- 20	4721	6300	18.4,18.4
30	1556	1558	1517	1483	1460	1511	1536	1502	20- 30	7441	13741	40.1,40.1
40	1099	1103	1044	1005	952.5	1009	1077	1024	30- 40	8107	21848	63.8,63.8
50	635.6	588.8	575.4	600.9	568.2	537.1	569.9	587.9	40- 50	6035	27882	81.5,81.5
60	310.7	306.1	286.8	294.7	257.2	253.1	257.6	257.5	50- 60	3817	31699	92.6,92.6
70	116.6	118.5	103.9	103.1	87.34	89.62	92.20	91.06	60- 70	1746	33445	97.7,97.7
80	35.34	34.70	30.42	30.24	19.42	20.80	21.87	23.15	70- 80	626.8	34072	99.5,99.5
90	12.50	12.41	12.25	12.17	9.218	9.179	9.121	8.995	80- 90	159.7	34232	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

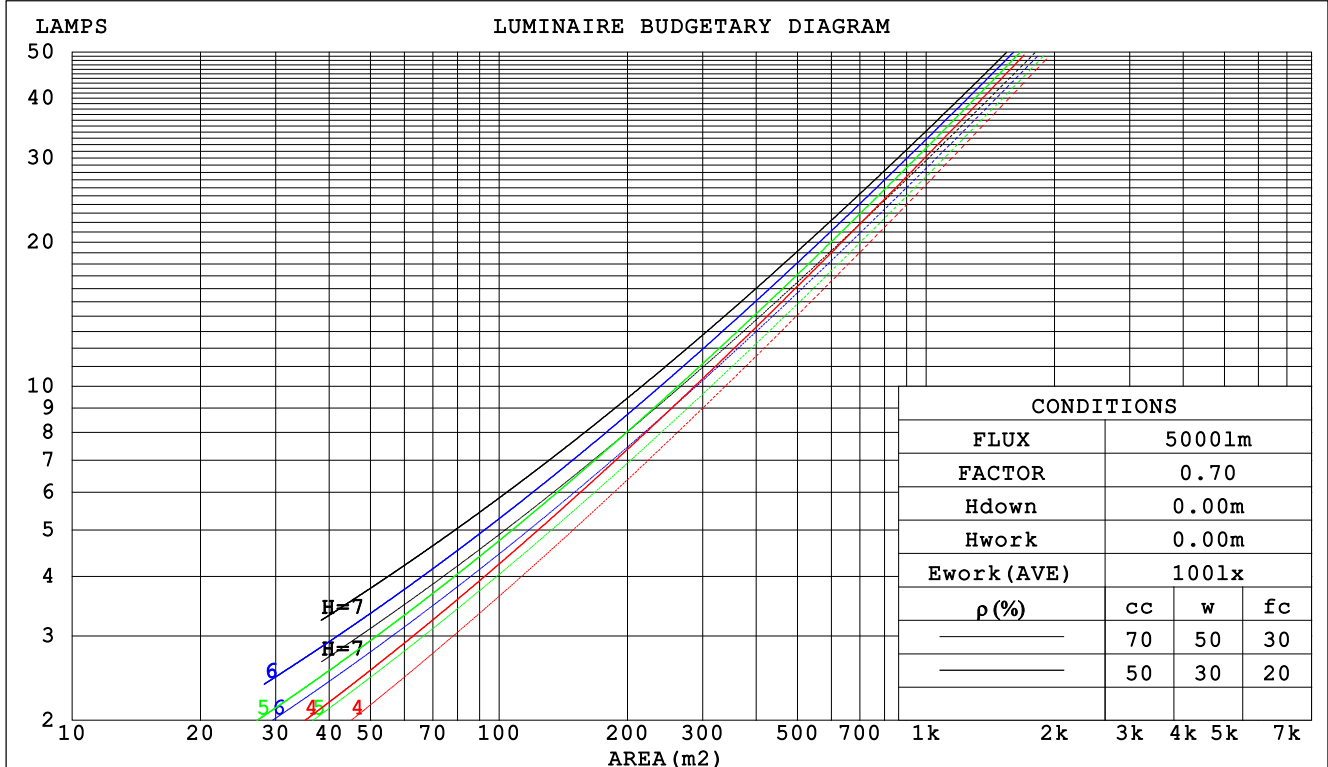
C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:chen xue chang  
 Test Date:2022-03-29

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity:65.0%  
 Test Distance:7.300m [K=1.0000]  
 Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi 350 \times H170MM$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi 0.350$	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	1.19	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	1.08	1.04	1.01	1.05	1.02	.00	1.01	.99	.96	.97	.95	.94	.94	.92	.91	.89
2.0	.97	.91	.87	.95	.90	.86	.91	.87	.84	.88	.85	.82	.85	.83	.80	.78
3.0	.87	.80	.75	.86	.79	.74	.83	.77	.73	.80	.76	.72	.78	.74	.71	.69
4.0	.79	.71	.66	.77	.71	.65	.75	.69	.64	.73	.68	.64	.71	.66	.63	.61
5.0	.71	.64	.58	.70	.63	.58	.68	.62	.57	.67	.61	.57	.65	.60	.56	.54
6.0	.65	.57	.52	.64	.57	.52	.63	.56	.51	.61	.55	.51	.60	.54	.50	.49
7.0	.60	.52	.47	.59	.52	.46	.58	.51	.46	.56	.50	.46	.55	.50	.46	.44
8.0	.55	.47	.42	.54	.47	.42	.53	.47	.42	.52	.46	.42	.51	.45	.41	.40
9.0	.51	.43	.38	.50	.43	.38	.49	.43	.38	.48	.42	.38	.47	.42	.38	.36
10.0	.47	.40	.35	.47	.40	.35	.46	.39	.35	.45	.39	.35	.44	.39	.35	.33



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: chen xue chang  
Test Date: 2022-03-29

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 7.300m [K=1.0000]  
Remarks:

## WEC AND CCEC

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi$ 350*H170MM	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi$ 0.350	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						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.239	.136	.043	.233	.133	.042	.220	.126	.040	.208	.120	.038	.197	.114	.037		
2.0	.232	.127	.039	.226	.125	.038	.215	.120	.037	.205	.115	.036	.195	.110	.035		
3.0	.221	.117	.035	.215	.115	.035	.206	.111	.034	.197	.108	.033	.188	.104	.032		
4.0	.208	.108	.032	.204	.107	.032	.195	.104	.031	.187	.101	.030	.180	.098	.030		
5.0	.197	.100	.029	.193	.099	.029	.185	.096	.028	.178	.094	.028	.171	.092	.027		
6.0	.185	.093	.027	.182	.092	.026	.175	.090	.026	.169	.088	.026	.163	.086	.025		
7.0	.175	.087	.025	.172	.086	.024	.166	.084	.024	.160	.082	.024	.155	.080	.024		
8.0	.166	.081	.023	.163	.080	.023	.157	.079	.022	.152	.077	.022	.147	.076	.022		
9.0	.157	.076	.021	.154	.075	.021	.149	.074	.021	.145	.073	.021	.140	.071	.021		
10.0	.149	.071	.020	.147	.071	.020	.142	.070	.020	.138	.068	.019	.134	.067	.019		

$\rho_{cc}$	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						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.175	.157	.140	.150	.135	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016	
2.0	.164	.132	.105	.141	.114	.091	.096	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.155	.114	.081	.133	.098	.070	.091	.068	.049	.053	.040	.029	.017	.013	.010	
4.0	.147	.100	.064	.126	.086	.056	.087	.060	.039	.050	.035	.023	.016	.011	.008	
5.0	.139	.089	.052	.120	.077	.045	.082	.054	.032	.048	.032	.019	.015	.010	.006	
6.0	.133	.081	.043	.114	.070	.038	.079	.049	.027	.046	.029	.016	.015	.009	.005	
7.0	.126	.074	.036	.109	.064	.032	.075	.045	.023	.044	.026	.013	.014	.009	.004	
8.0	.121	.068	.031	.104	.059	.027	.072	.041	.019	.042	.024	.012	.014	.008	.004	
9.0	.115	.063	.027	.099	.054	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.110	.058	.024	.095	.051	.021	.066	.036	.015	.038	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:chen xue chang  
Test Date:2022-03-29

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity:65.0%  
Test Distance:7.300m [K=1.0000]  
Remarks:

### Uncorrected UGR Table

NAME: LED High Bay					TYPE:					WEIGHT:				
DIM.: $\Phi 350 \times H170MM$					SPEC.:					SERIAL No.:				
MFR.:					SUR.: $\Phi 0.350$					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					27.6	28.9	27.9	29.1	29.3	27.4	28.7	27.6	28.8	29.0
3H					28.0	29.1	28.2	29.4	29.6	27.7	28.8	27.9	29.1	29.3
4H					28.0	29.1	28.3	29.4	29.6	27.7	28.8	28.0	29.1	29.3
6H					28.0	29.1	28.4	29.3	29.6	27.7	28.8	28.0	29.0	29.3
8H					28.0	29.0	28.4	29.3	29.6	27.7	28.7	28.0	29.0	29.2
12H					28.0	29.0	28.3	29.3	29.5	27.7	28.6	28.0	28.9	29.2
4H 2H					27.8	28.9	28.1	29.1	29.4	27.5	28.7	27.8	28.9	29.1
3H					28.2	29.2	28.5	29.5	29.7	27.9	28.9	28.3	29.2	29.5
4H					28.3	29.2	28.7	29.5	29.9	28.1	28.9	28.4	29.2	29.6
6H					28.4	29.2	28.8	29.5	29.9	28.1	28.9	28.5	29.2	29.6
8H					28.4	29.1	28.8	29.5	29.9	28.1	28.8	28.5	29.2	29.6
12H					28.4	29.1	28.8	29.5	29.8	28.1	28.8	28.5	29.1	29.5
8H 4H					28.3	29.0	28.7	29.4	29.8	28.1	28.8	28.5	29.1	29.5
6H					28.5	29.0	28.9	29.4	29.9	28.2	28.7	28.6	29.1	29.6
8H					28.5	29.0	28.9	29.4	29.9	28.2	28.7	28.6	29.1	29.6
12H					28.5	29.0	29.0	29.4	29.9	28.2	28.6	28.7	29.1	29.6
12H 4H					28.3	28.9	28.7	29.3	29.7	28.0	28.7	28.4	29.1	29.5
6H					28.4	28.9	28.9	29.4	29.8	28.1	28.7	28.6	29.1	29.5
8H					28.5	28.9	29.0	29.4	29.8	28.2	28.6	28.7	29.1	29.5
Variations with the observer position at spacings:														
S = 1.0H					+ 0.7 / - 1.0					+ 0.8 / - 1.1				
1.5H					+ 0.6 / - 0.6					+ 0.7 / - 0.5				
2.0H					+ 1.4 / - 1.6					+ 1.4 / - 1.5				

CIE Pub.117 Corrected 34232 lm Total Lamp Luminous Flux. (8log(F/F0) = 12.3)

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: chen xue chang  
Test Date: 2022-03-29

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 7.300m [K=1.0000]  
Remarks:

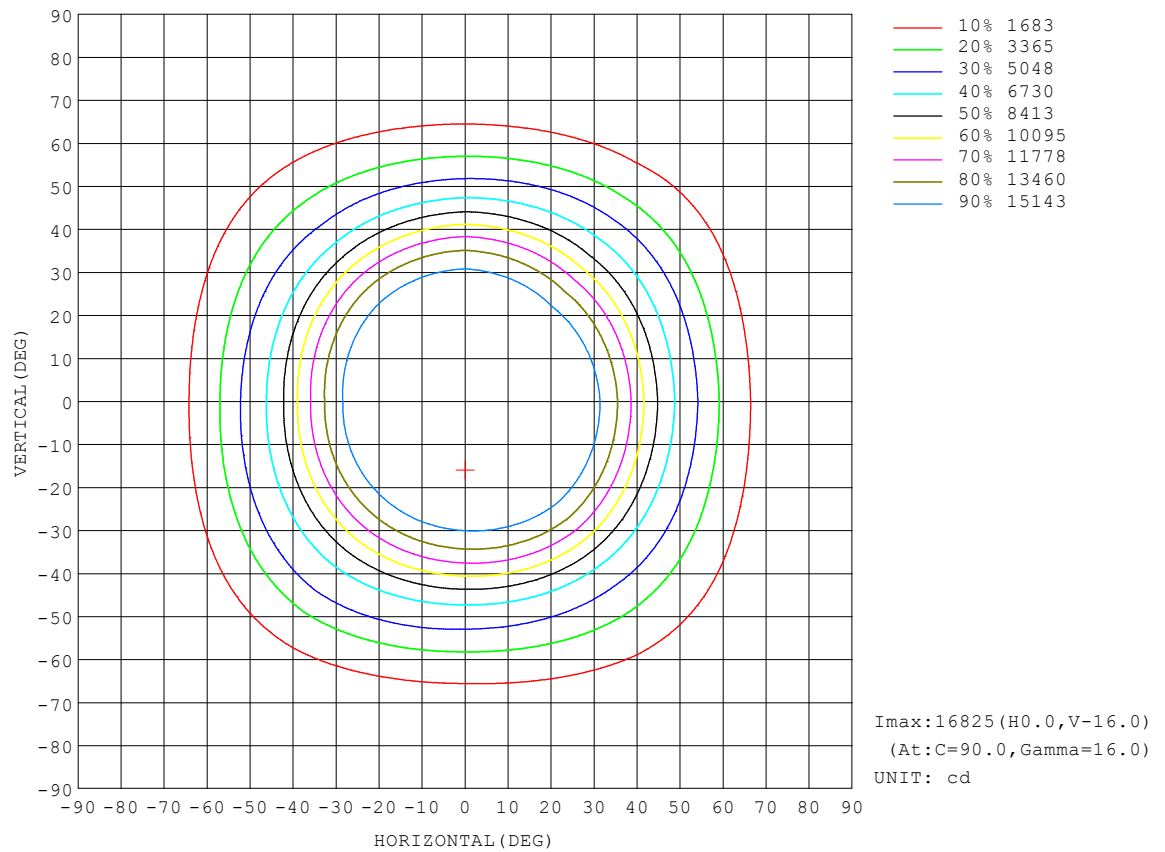
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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.300m [K=1.0000]
Remarks:

```

## ISOCANDELA DIAGRAM

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi 350 \times H170MM$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi 0.350$	PROTECTION ANGLE:

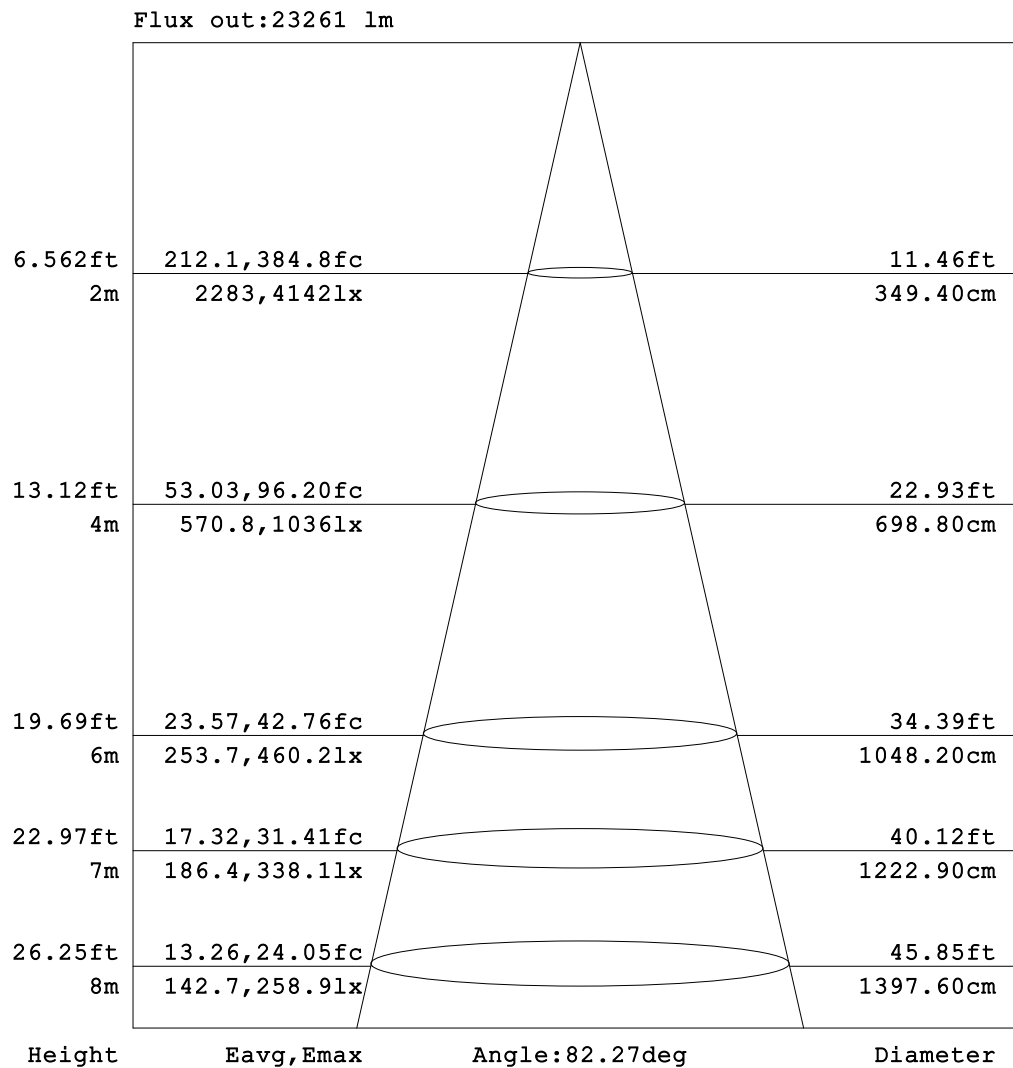


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: chen xue chang  
Test Date: 2022-03-29

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 7.300m [K=1.0000]  
Remarks:

### AAI Figure

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi$ 350*H170MM	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi$ 0.350	PROTECTION ANGLE:



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

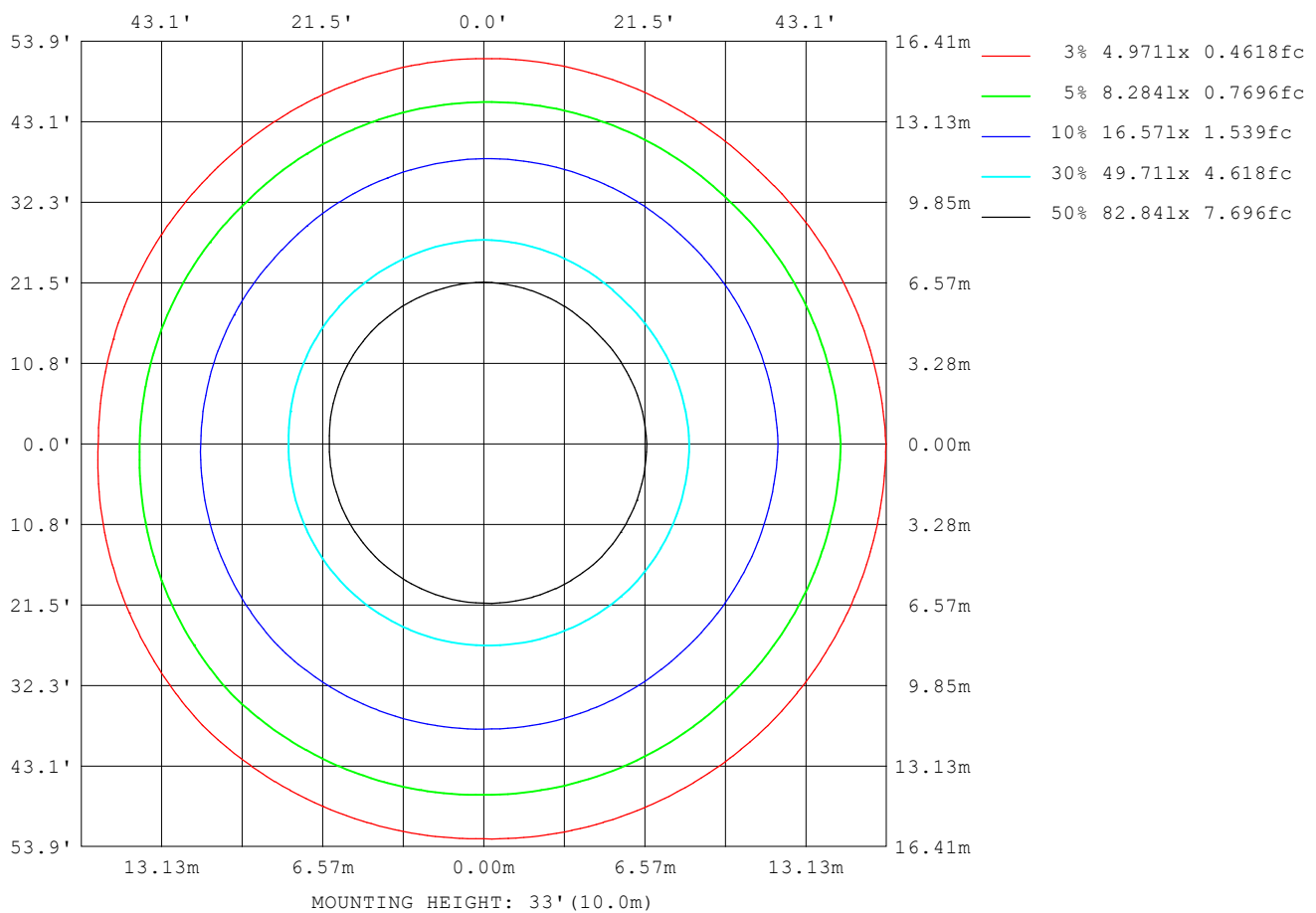
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:chen xue chang  
Test Date:2022-03-29

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity:65.0%  
Test Distance:7.300m [K=1.0000]  
Remarks:



## ISOLUX DIAGRAM

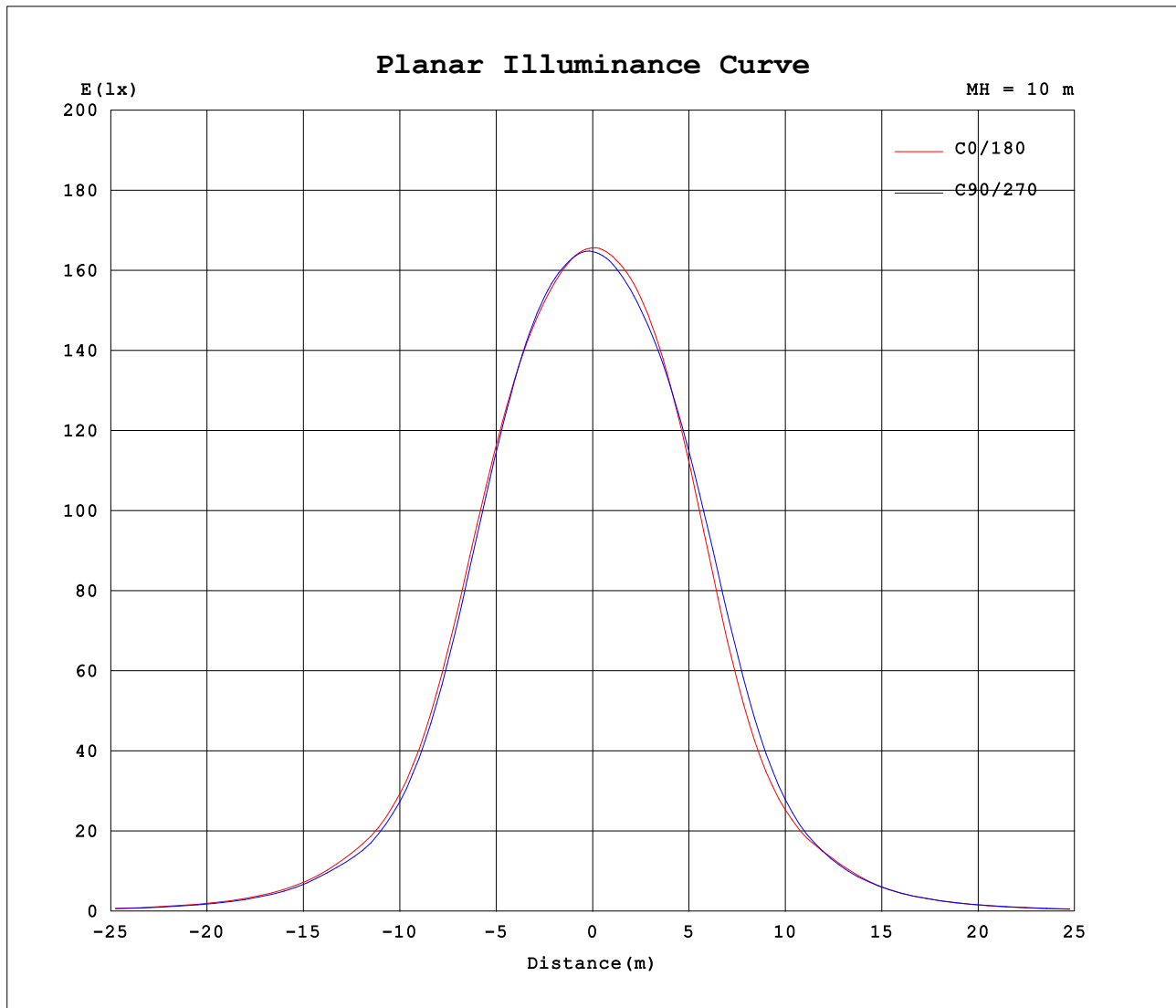
NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi 350 \times H170MM$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi 0.350$	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: chen xue chang  
 Test Date: 2022-03-29

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 7.300m [K=1.0000]  
 Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: chen xue chang  
Test Date: 2022-03-29

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 7.300m [K=1.0000]  
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.300m [K=1.0000]
Remarks:

```