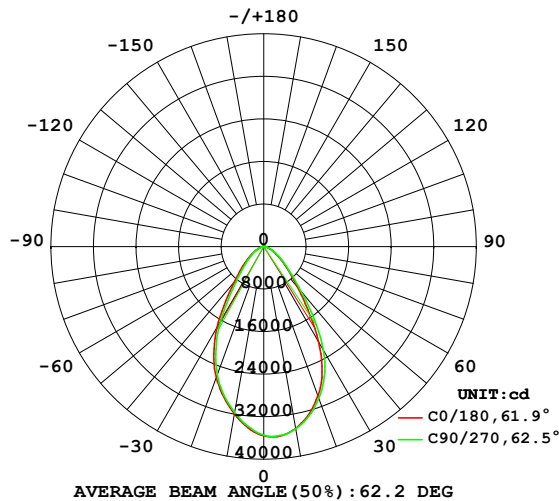


## LUMINAIRE PHOTOMETRIC TEST REPORT

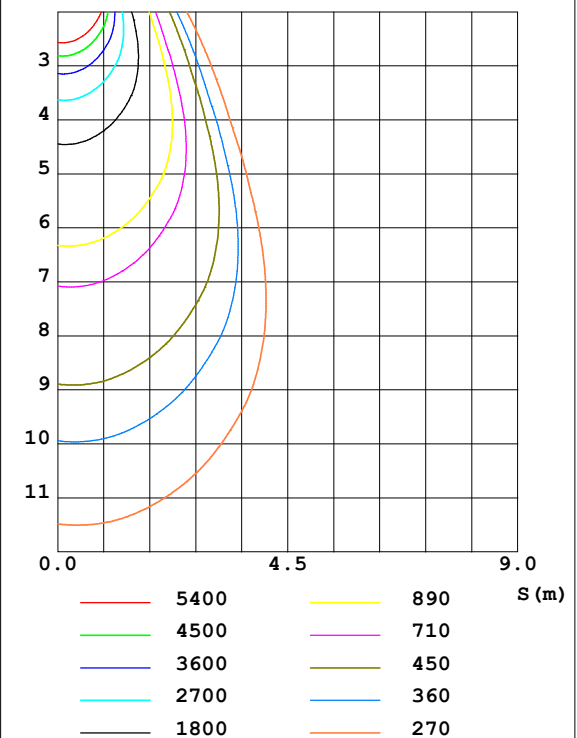
NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi 350 \times H150MM$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi 0.35$	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 210.82 lm/W
MODEL	UFO200W-60D	Imax (cd)	35831	S/MH (C0/180)	0.96	
NOMINAL POWER (W)	200	LOR (%)	100.0	S/MH (C90/270)	1.00	
RATED VOLTAGE (V)	232	TOTAL FLUX (lm)	42122	$\eta$ UP, DN (C0-180)	0.0, 54.9	
NOMINAL FLUX (lm)	42122.2	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.0, 45.1	
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE (V)	232.7	$\eta$ down (%)	100.0	CIBSE SHR MAX	0.95	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: chen xue chang  
Test Date: 2022-05-13

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 7.500m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C90	C180	C270					$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	3470	3481	3192	3165					0- 10	3279	3279	7.78, 7.78
20	2986	3033	2618	2562					10- 20	8666	11944	28.4, 28.4
30	2064	2248	1764	1626					20- 30	10983	22927	54.4, 54.4
40	974.3	1085	847.7	742.1					30- 40	8538	31465	74.7, 74.7
50	499.5	532.6	441.0	386.2					40- 50	5051	36517	86.7, 86.7
60	251.3	274.4	220.9	190.9					50- 60	3022	39539	93.9, 93.9
70	119.5	132.6	101.2	87.70					60- 70	1635	41174	97.7, 97.7
80	40.49	49.34	31.13	24.06					70- 80	738.2	41912	99.5, 99.5
90	14.25	14.39	11.55	11.79					80- 90	210.2	42122	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: $\times 10\text{cd}$									UNIT: lm		

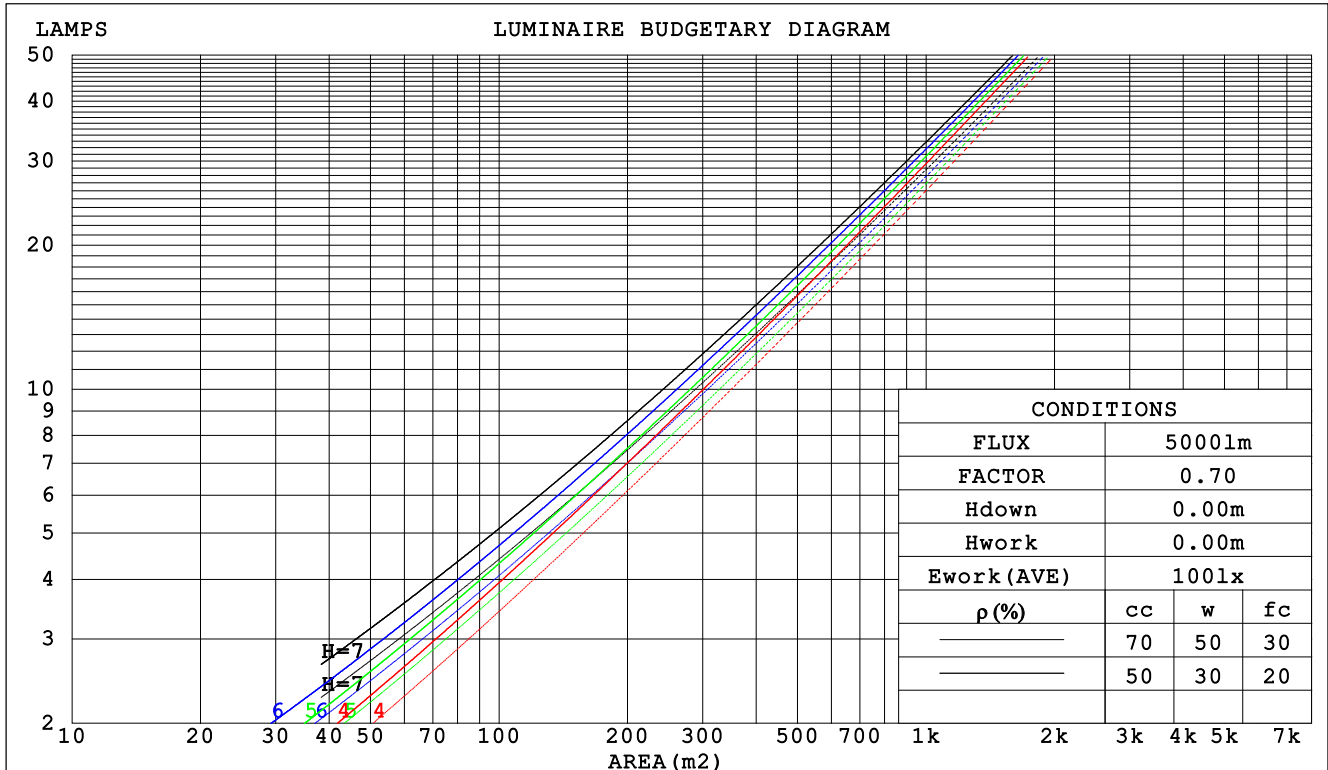
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: chen xue chang  
 Test Date: 2022-05-13

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 7.500m [K=1.0000]  
 Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi 350 \times H150MM$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi 0.35$	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	1.00
1.0	1.09	1.06	1.03	1.06	1.04	1.01	1.02	1.00	.98	.98	.97	.95	.95	.94	.92	.90
2.0	.99	.94	.90	.97	.93	.89	.94	.90	.87	.91	.88	.85	.88	.85	.83	.81
3.0	.90	.84	.80	.89	.83	.79	.86	.81	.78	.84	.80	.76	.81	.78	.75	.73
4.0	.83	.76	.71	.82	.76	.71	.80	.74	.70	.77	.73	.69	.75	.72	.68	.67
5.0	.77	.70	.64	.76	.69	.64	.74	.68	.64	.72	.67	.63	.70	.66	.62	.61
6.0	.71	.64	.59	.70	.63	.59	.68	.62	.58	.67	.62	.58	.65	.61	.57	.56
7.0	.66	.59	.54	.65	.58	.54	.64	.58	.53	.62	.57	.53	.61	.56	.53	.51
8.0	.61	.54	.50	.61	.54	.50	.60	.54	.49	.58	.53	.49	.57	.53	.49	.47
9.0	.57	.51	.46	.57	.50	.46	.56	.50	.46	.55	.49	.46	.54	.49	.45	.44
10.0	.54	.47	.43	.53	.47	.43	.53	.47	.43	.52	.46	.43	.51	.46	.42	.41



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: chen xue chang  
 Test Date: 2022-05-13

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
 Humidity: 65.0%  
 Test Distance: 7.500m [K=1.0000]  
 Remarks:

# WEC AND CCEC

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi$ 350*H150MM	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi$ 0.35	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	.219	.125	.040	.213	.121	.039	.200	.115	.037	.188	.108	.035	.177	.103	.033		
2.0	.210	.115	.035	.204	.113	.035	.194	.108	.033	.183	.103	.032	.174	.098	.031		
3.0	.199	.106	.032	.194	.104	.031	.184	.100	.030	.176	.096	.030	.168	.093	.029		
4.0	.188	.098	.029	.183	.096	.028	.175	.093	.028	.167	.090	.027	.160	.087	.027		
5.0	.177	.090	.026	.173	.089	.026	.166	.086	.025	.159	.084	.025	.153	.082	.025		
6.0	.167	.084	.024	.164	.083	.024	.157	.081	.023	.151	.079	.023	.146	.077	.023		
7.0	.158	.078	.022	.155	.077	.022	.150	.076	.022	.144	.074	.022	.139	.072	.021		
8.0	.150	.073	.021	.147	.073	.021	.142	.071	.020	.137	.070	.020	.133	.068	.020		
9.0	.143	.069	.019	.140	.068	.019	.136	.067	.019	.131	.066	.019	.127	.065	.019		
10.0	.136	.065	.018	.134	.065	.018	.129	.063	.018	.125	.062	.018	.122	.061	.018		

$\rho_{cc}$	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	.174	.157	.142	.149	.135	.122	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.161	.132	.108	.138	.114	.093	.095	.079	.065	.055	.046	.038	.018	.015	.012	
3.0	.151	.114	.084	.129	.098	.073	.089	.068	.051	.051	.040	.030	.016	.013	.010	
4.0	.142	.100	.067	.122	.086	.059	.084	.060	.041	.048	.035	.024	.016	.011	.008	
5.0	.134	.088	.055	.115	.077	.048	.079	.053	.034	.046	.031	.020	.015	.010	.007	
6.0	.127	.080	.046	.109	.069	.040	.075	.048	.028	.044	.028	.017	.014	.009	.006	
7.0	.120	.072	.039	.103	.063	.034	.071	.044	.024	.041	.026	.014	.013	.008	.005	
8.0	.114	.066	.033	.098	.057	.029	.068	.040	.021	.040	.024	.012	.013	.008	.004	
9.0	.109	.061	.029	.094	.053	.025	.065	.037	.018	.038	.022	.011	.012	.007	.004	
10.0	.104	.057	.025	.090	.049	.022	.062	.035	.016	.036	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:chen xue chang  
Test Date:2022-05-13

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:

### Uncorrected UGR Table

NAME: LED High Bay					TYPE:					WEIGHT:				
DIM.: $\Phi 350 \times H150MM$					SPEC.:					SERIAL No.:				
MFR.:					SUR.: $\Phi 0.35$					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					26.0	27.2	26.3	27.4	27.6	26.4	27.5	26.6	27.7	27.9
3H					26.5	27.6	26.8	27.8	28.0	26.9	27.9	27.1	28.1	28.3
4H					26.6	27.7	26.9	27.9	28.1	27.0	28.1	27.3	28.3	28.5
6H					26.7	27.7	27.0	27.9	28.2	27.2	28.1	27.5	28.4	28.6
8H					26.7	27.6	27.1	27.9	28.2	27.2	28.1	27.5	28.4	28.6
12H					26.7	27.6	27.1	27.9	28.2	27.2	28.1	27.5	28.4	28.6
4H 2H					26.2	27.2	26.5	27.4	27.7	26.5	27.5	26.8	27.7	28.0
3H					26.8	27.7	27.2	28.0	28.3	27.1	28.0	27.5	28.3	28.6
4H					27.1	27.9	27.4	28.2	28.5	27.4	28.2	27.8	28.5	28.8
6H					27.2	27.9	27.6	28.3	28.6	27.6	28.3	28.0	28.7	29.0
8H					27.3	27.9	27.7	28.3	28.6	27.7	28.3	28.1	28.7	29.1
12H					27.3	27.9	27.7	28.2	28.6	27.7	28.3	28.2	28.7	29.1
8H 4H					27.1	27.8	27.5	28.1	28.5	27.5	28.1	27.9	28.5	28.8
6H					27.4	27.9	27.8	28.3	28.7	27.7	28.3	28.2	28.7	29.1
8H					27.4	27.9	27.9	28.3	28.8	27.9	28.3	28.3	28.7	29.2
12H					27.5	27.9	28.0	28.3	28.8	28.0	28.4	28.4	28.8	29.3
12H 4H					27.1	27.7	27.5	28.1	28.5	27.4	28.0	27.9	28.4	28.8
6H					27.4	27.8	27.8	28.2	28.7	27.7	28.2	28.2	28.6	29.1
8H					27.5	27.9	27.9	28.3	28.8	27.9	28.3	28.3	28.7	29.2
Variations with the observer position at spacings:														
S = 1.0H					+ 0.8 / - 1.0					+ 0.8 / - 1.0				
1.5H					+ 0.9 / - 0.6					+ 1.3 / - 0.6				
2.0H					+ 1.4 / - 1.1					+ 1.4 / - 1.1				

CIE Pub.117 Corrected 42122 lm Total Lamp Luminous Flux. (8log(F/F0) = 13.0)

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: chen xue chang  
Test Date: 2022-05-13

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 7.500m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi 350 \times H150MM$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi 0.35$	PROTECTION ANGLE:

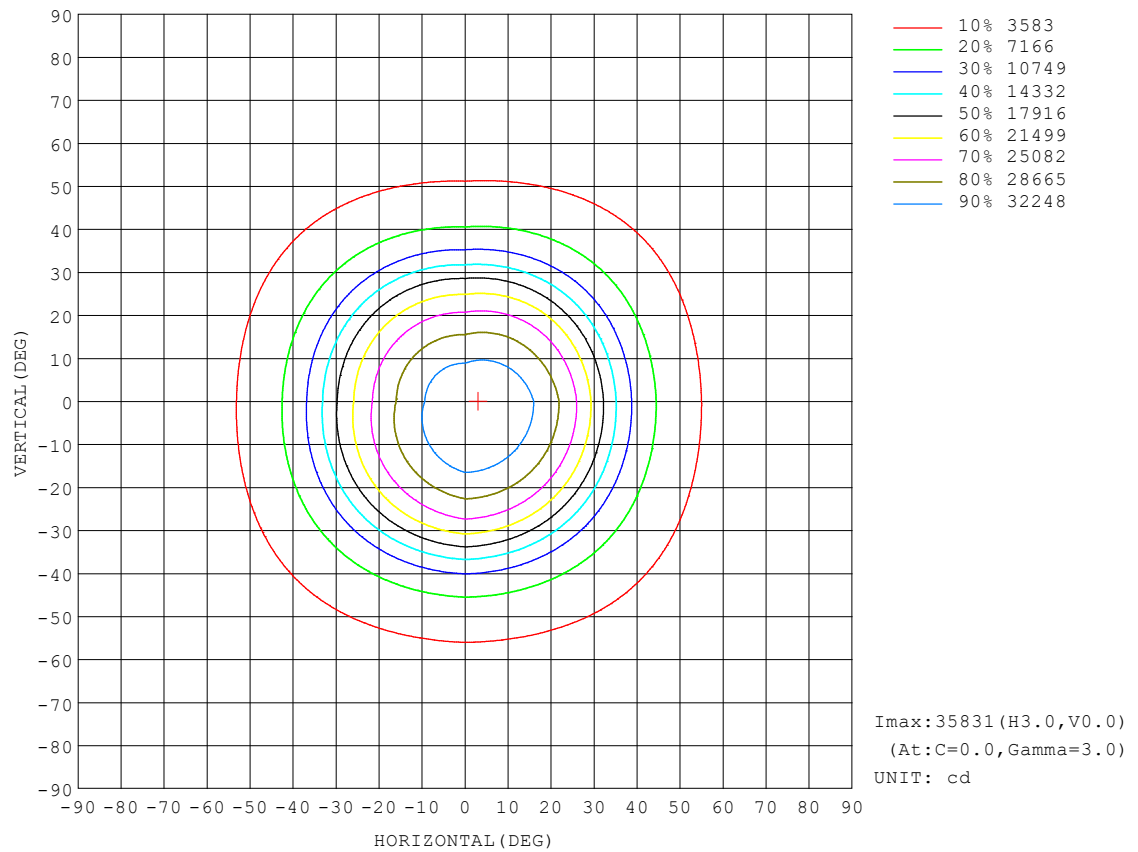
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT)    k(RI) x RCR = 5									
k = 0.60	76	67	62	75	67	62	74	67	62	57
0.80	84	76	71	84	76	71	82	75	71	66
1.00	91	83	78	90	83	78	88	83	77	72
1.25	96	89	84	95	88	84	93	87	83	78
1.50	100	93	89	98	92	88	96	91	87	82
2.00	104	98	94	102	97	93	99	95	92	86
2.50	106	101	97	105	100	96	101	98	94	88
3.00	109	104	100	107	103	99	103	100	97	90
4.00	111	107	104	109	106	103	105	103	100	93
5.00	113	110	107	111	108	105	106	104	102	94
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNOM = 1.25										

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: chen xue chang  
Test Date: 2022-05-13

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 7.500m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi 350 \times H150MM$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi 0.35$	PROTECTION ANGLE:

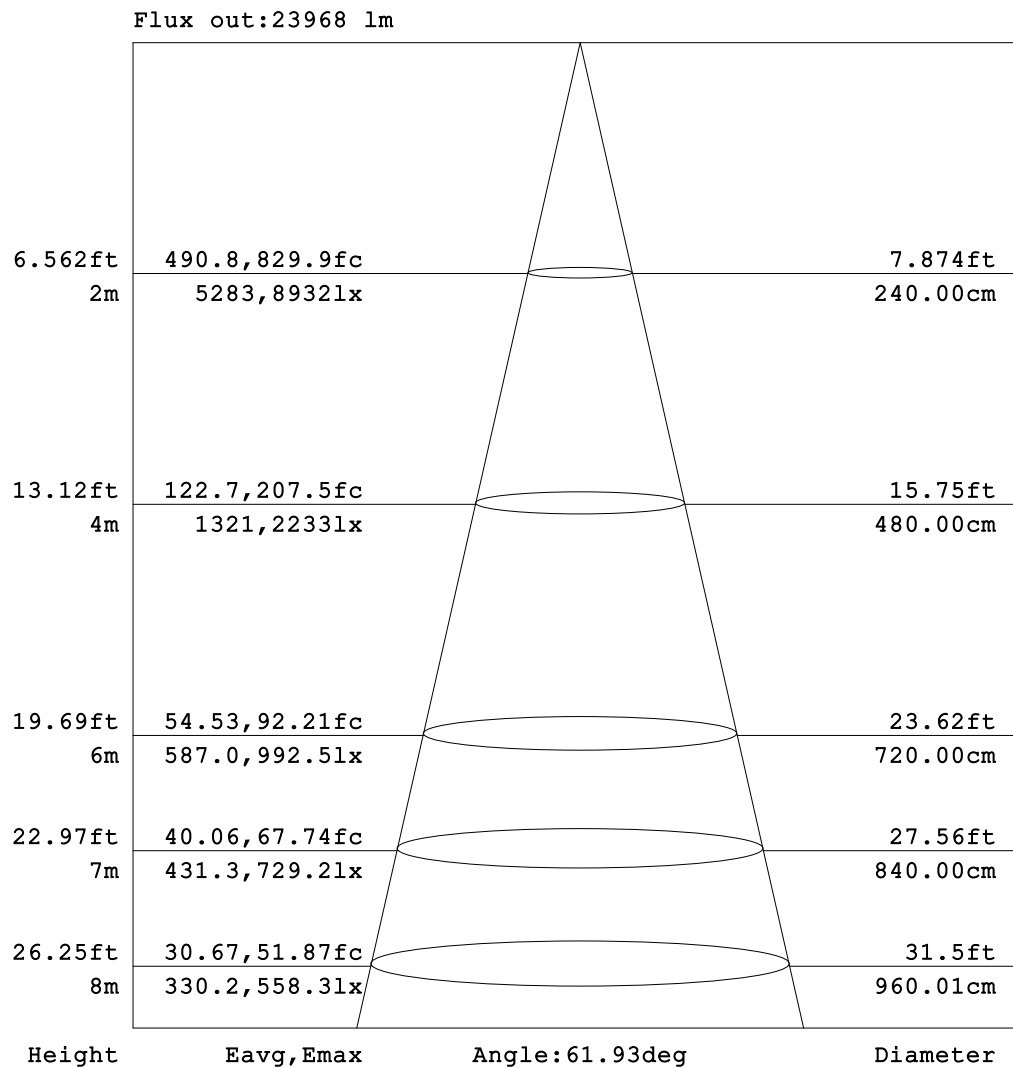


C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:chen xue chang  
Test Date:2022-05-13

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity:65.0%  
Test Distance:7.500m [K=1.0000]  
Remarks:

### AAI Figure

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi$ 350*H150MM	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi$ 0.35	PROTECTION ANGLE:



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

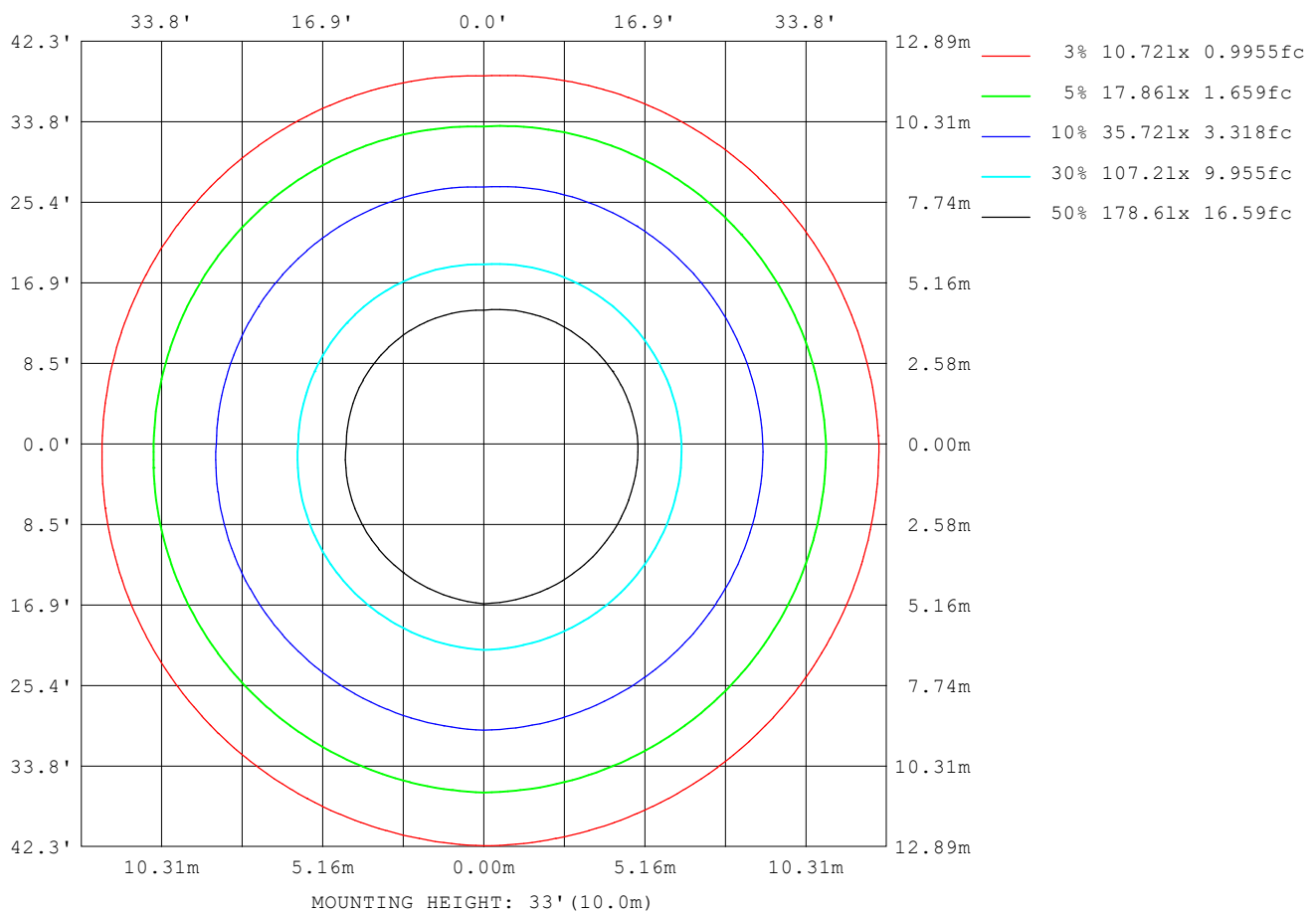
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: chen xue chang  
Test Date: 2022-05-13

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 7.500m [K=1.0000]  
Remarks:



## ISOLUX DIAGRAM

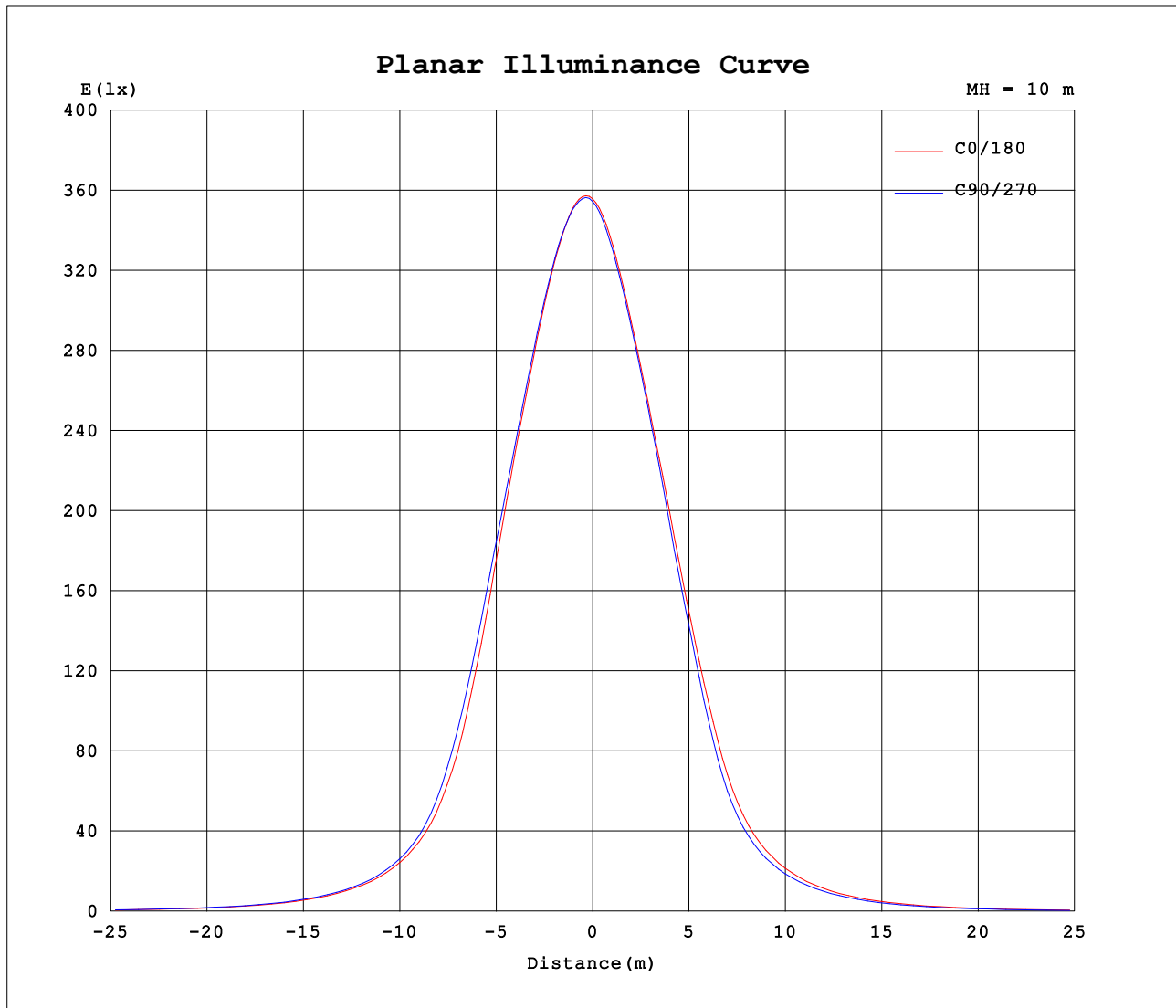
NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi 350 \times H150MM$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi 0.35$	PROTECTION ANGLE:



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: chen xue chang  
Test Date: 2022-05-13

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 7.500m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: chen xue chang  
Test Date: 2022-05-13

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.269  
Humidity: 65.0%  
Test Distance: 7.500m [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:7.500m [K=1.0000]
Remarks:

```