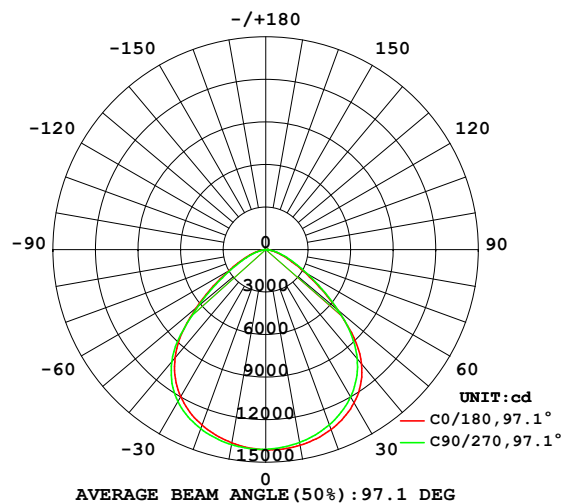


## LUMINAIRE PHOTOMETRIC TEST REPORT

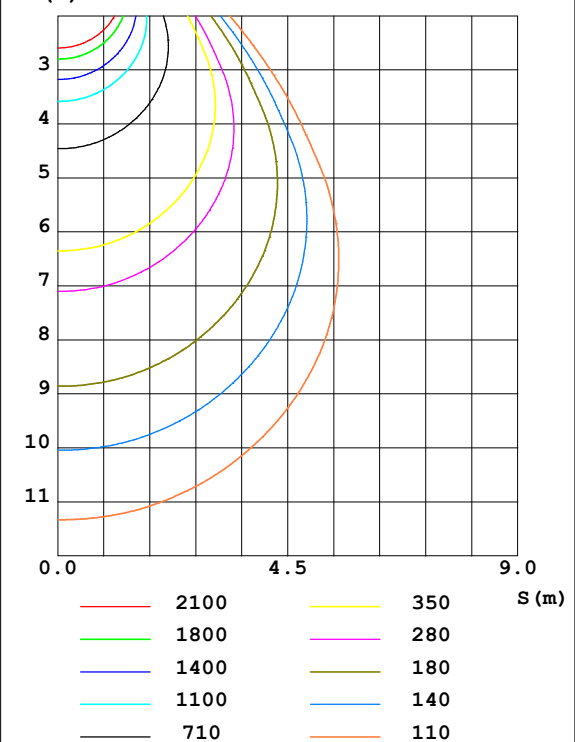
NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi 300 \times H150MM$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi 0.3$	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 211.92 lm/W
MODEL	UFO150W-90D	I <sub>max</sub> (cd)	14127	S/MH (C0/180)	1.31	
NOMINAL POWER (W)	150.5	LOR (%)	100.0	S/MH (C90/270)	1.26	
RATED VOLTAGE (V)	228	TOTAL FLUX (lm)	31894	$\eta$ UP, DN (C0-180)	0.0, 50.8	
NOMINAL FLUX (lm)	31893.7	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.0, 49.2	
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE (V)	228.9	$\eta$ down (%)	100.0	CIBSE SHR MAX	1.35	

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: 7.300m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C90	C180	C270					$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1401	1380	1384	1397					0- 10	1336	1336	4.19,4.19
20	1349	1314	1316	1343					10- 20	3857	5194	16.3,16.3
30	1247	1199	1199	1238					20- 30	5913	11106	34.8,34.8
40	1050	1004	994.9	1030					30- 40	7080	18186	57,57
50	659.6	667.0	639.2	624.2					40- 50	6521	24707	77.5,77.5
60	311.1	332.4	303.1	282.7					50- 60	4140	28848	90.4,90.4
70	130.0	149.3	129.3	113.3					60- 70	2058	30906	96.9,96.9
80	32.75	45.12	30.51	20.78					70- 80	824.3	31730	99.5,99.5
90	12.23	12.07	9.668	9.556					80- 90	163.5	31894	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		

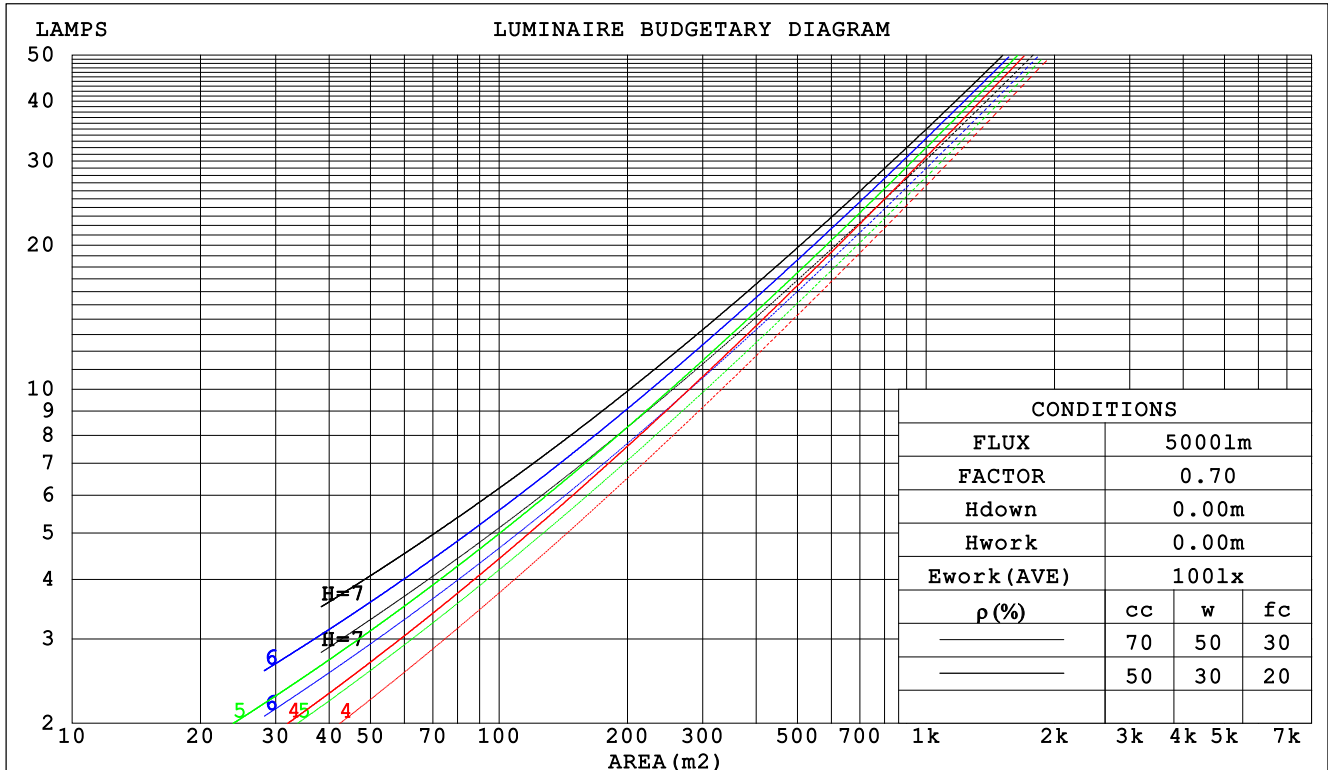
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:chen xue chang  
 Test Date:2022-05-13

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

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi 300 \times H150MM$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi 0.3$	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	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
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	1.07	1.03	1.00	1.05	1.01	.99	1.00	.98	.95	.97	.95	.93	.93	.91	.90	.88
2.0	.95	.90	.85	.93	.88	.84	.90	.86	.82	.87	.83	.80	.84	.81	.78	.76
3.0	.85	.78	.72	.84	.77	.72	.81	.75	.71	.78	.73	.69	.76	.72	.68	.66
4.0	.77	.69	.63	.75	.68	.62	.73	.67	.62	.71	.65	.61	.69	.64	.60	.58
5.0	.69	.61	.55	.68	.60	.55	.66	.59	.54	.64	.58	.54	.62	.57	.53	.51
6.0	.63	.55	.49	.62	.54	.48	.60	.53	.48	.58	.52	.48	.57	.52	.47	.45
7.0	.57	.49	.43	.56	.49	.43	.55	.48	.43	.54	.47	.43	.52	.47	.42	.41
8.0	.52	.44	.39	.52	.44	.39	.50	.44	.39	.49	.43	.39	.48	.43	.38	.37
9.0	.48	.41	.35	.48	.40	.35	.47	.40	.35	.46	.39	.35	.45	.39	.35	.33
10.0	.45	.37	.32	.44	.37	.32	.43	.37	.32	.42	.36	.32	.41	.36	.32	.30



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: 7.300m [K=1.0000]  
 Remarks:

### WEC AND CCEC

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi$ 300*H150MM	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi$ 0.3	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	.253	.144	.046	.246	.140	.045	.233	.134	.043	.221	.127	.041	.210	.122	.039		
2.0	.245	.134	.041	.239	.132	.041	.228	.127	.039	.218	.122	.038	.208	.118	.037		
3.0	.233	.124	.037	.227	.122	.037	.217	.118	.036	.208	.114	.035	.200	.111	.034		
4.0	.219	.114	.033	.214	.112	.033	.206	.109	.033	.198	.106	.032	.190	.103	.031		
5.0	.206	.105	.030	.202	.104	.030	.194	.101	.030	.187	.099	.029	.180	.096	.029		
6.0	.194	.097	.028	.190	.096	.028	.183	.094	.027	.177	.092	.027	.171	.090	.027		
7.0	.182	.090	.026	.179	.089	.025	.173	.087	.025	.167	.086	.025	.162	.084	.025		
8.0	.172	.084	.024	.169	.083	.024	.163	.082	.023	.158	.080	.023	.153	.079	.023		
9.0	.162	.079	.022	.160	.078	.022	.155	.077	.022	.150	.075	.022	.146	.074	.021		
10.0	.154	.074	.020	.151	.073	.020	.147	.072	.020	.143	.071	.020	.139	.070	.020		

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.176	.157	.139	.151	.134	.120	.103	.092	.083	.059	.054	.048	.019	.017	.016	
2.0	.166	.132	.104	.142	.114	.090	.097	.079	.062	.056	.046	.037	.018	.015	.012	
3.0	.157	.114	.080	.135	.098	.069	.093	.068	.048	.053	.040	.029	.017	.013	.009	
4.0	.149	.100	.063	.128	.087	.055	.088	.060	.038	.051	.035	.023	.016	.012	.007	
5.0	.142	.090	.051	.122	.078	.044	.084	.054	.031	.049	.032	.019	.016	.010	.006	
6.0	.135	.081	.042	.116	.070	.037	.080	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.129	.074	.035	.111	.064	.031	.077	.045	.022	.045	.027	.013	.014	.009	.004	
8.0	.123	.068	.030	.106	.059	.027	.073	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.118	.063	.027	.101	.055	.023	.070	.039	.016	.041	.023	.010	.013	.007	.003	
10.0	.113	.059	.023	.097	.051	.021	.067	.036	.015	.039	.021	.009	.013	.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:7.300m [K=1.0000]  
Remarks:

## Uncorrected UGR Table

NAME: LED High Bay					TYPE:					WEIGHT:				
DIM.: $\Phi 300 \times H150MM$					SPEC.:					SERIAL No.:				
MFR.:					SUR.: $\Phi 0.3$					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					29.0	30.4	29.3	30.6	30.8	29.1	30.5	29.4	30.7	30.9
3H					29.4	30.7	29.7	30.9	31.1	29.6	30.9	29.9	31.1	31.3
4H					29.6	30.7	29.9	31.0	31.2	29.8	31.0	30.1	31.2	31.5
6H					29.6	30.7	29.9	30.9	31.2	29.9	31.0	30.2	31.2	31.5
8H					29.5	30.6	29.9	30.9	31.2	29.8	30.9	30.2	31.2	31.5
12H					29.5	30.5	29.9	30.8	31.1	29.8	30.8	30.2	31.1	31.4
4H 2H					29.2	30.4	29.5	30.6	30.9	29.3	30.5	29.6	30.7	31.0
3H					29.8	30.8	30.1	31.1	31.4	29.9	31.0	30.3	31.3	31.6
4H					30.0	30.9	30.3	31.2	31.5	30.2	31.1	30.6	31.4	31.8
6H					30.0	30.9	30.4	31.2	31.6	30.3	31.1	30.7	31.5	31.8
8H					30.0	30.8	30.4	31.1	31.5	30.3	31.1	30.7	31.5	31.8
12H					30.0	30.7	30.4	31.1	31.5	30.3	31.0	30.7	31.4	31.8
8H 4H					30.0	30.8	30.4	31.1	31.5	30.2	31.0	30.6	31.3	31.7
6H					30.1	30.7	30.6	31.1	31.6	30.4	31.0	30.8	31.4	31.8
8H					30.1	30.7	30.6	31.1	31.5	30.4	31.0	30.9	31.4	31.9
12H					30.1	30.6	30.6	31.0	31.5	30.4	30.9	30.9	31.4	31.8
12H 4H					30.0	30.7	30.4	31.0	31.4	30.2	30.9	30.6	31.3	31.7
6H					30.1	30.7	30.6	31.1	31.5	30.4	30.9	30.8	31.4	31.8
8H					30.1	30.6	30.6	31.0	31.5	30.4	30.9	30.9	31.3	31.8
Variations with the observer position at spacings:														
S = 1.0H					+ 0.7 / - 0.9					+ 0.7 / - 0.7				
1.5H					+ 0.5 / - 0.4					+ 0.4 / - 0.3				
2.0H					+ 1.6 / - 1.5					+ 1.4 / - 1.4				

CIE Pub.117 Corrected 31894 lm Total Lamp Luminous Flux. (8log(F/F0) = 12.0)

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: 7.300m [K=1.0000]  
 Remarks:

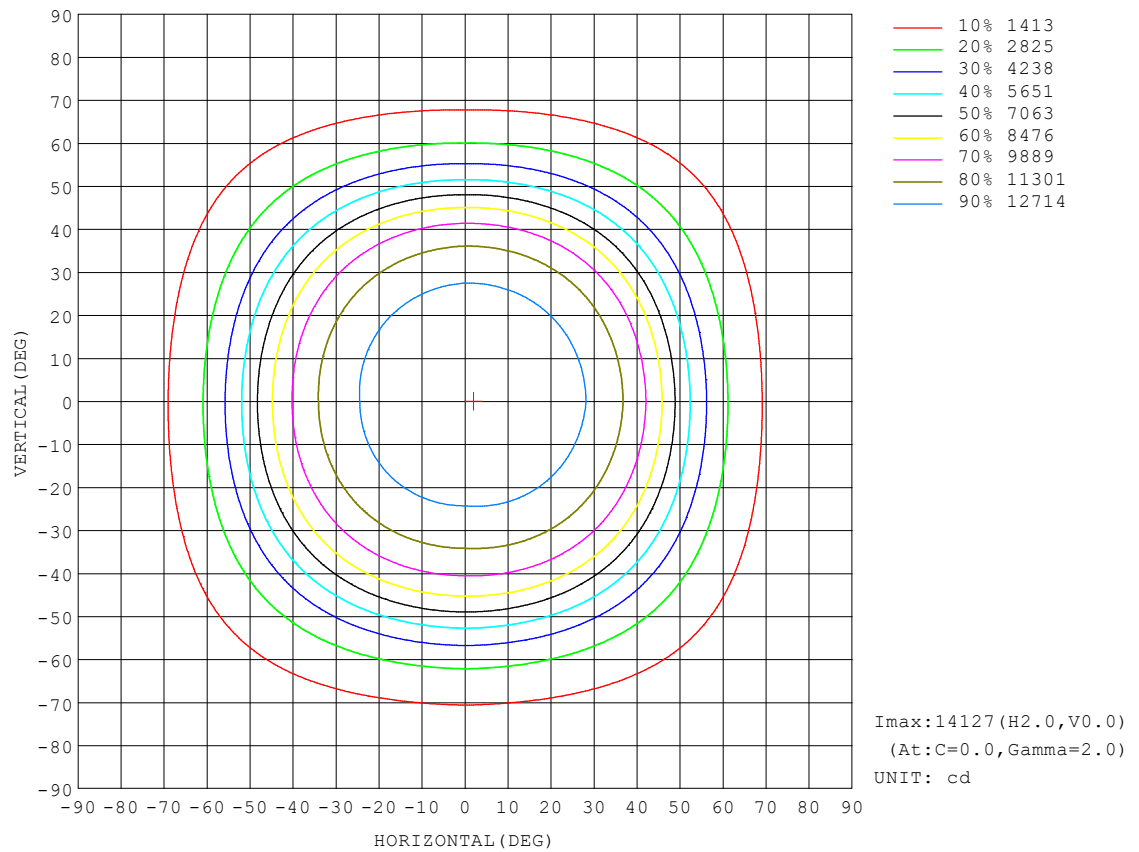
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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.300m [K=1.0000]
Remarks:

```

## ISOCANDELA DIAGRAM

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi 300 \times H150MM$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi 0.3$	PROTECTION ANGLE:

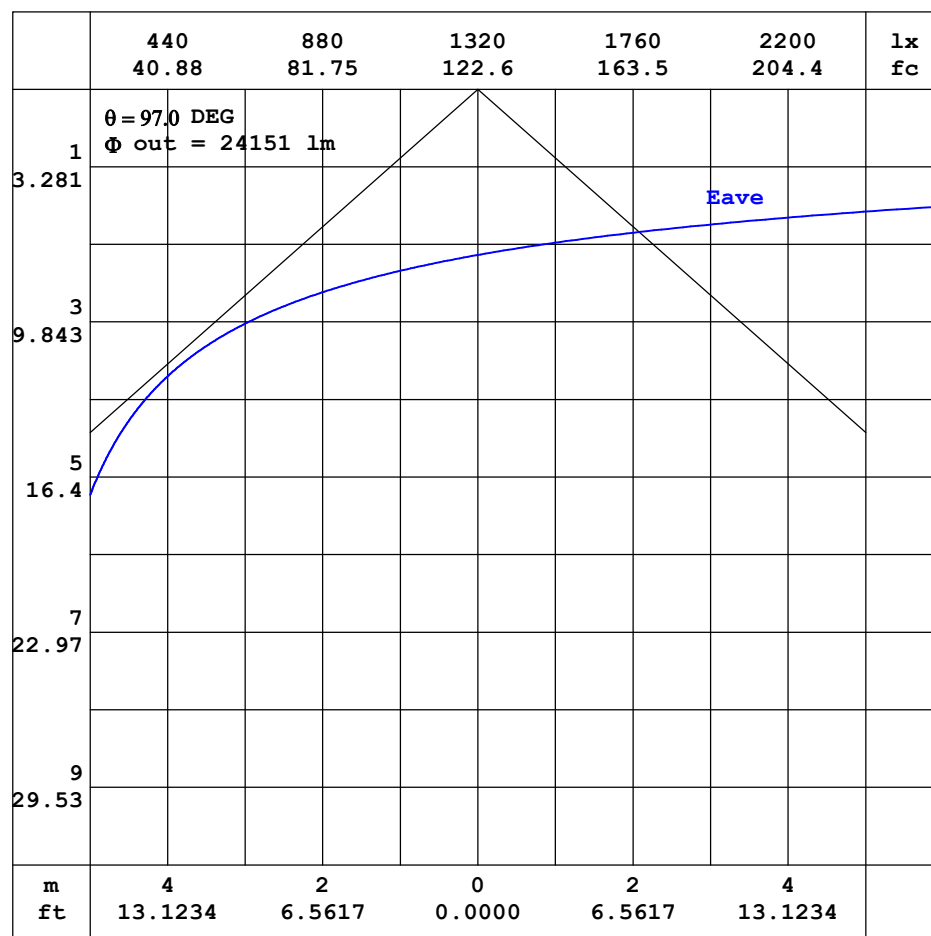


C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: chen xue chang  
Test Date: 2022-05-13

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

## AAI CURVES

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi 300 \times H150MM$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi 0.3$	PROTECTION ANGLE:



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

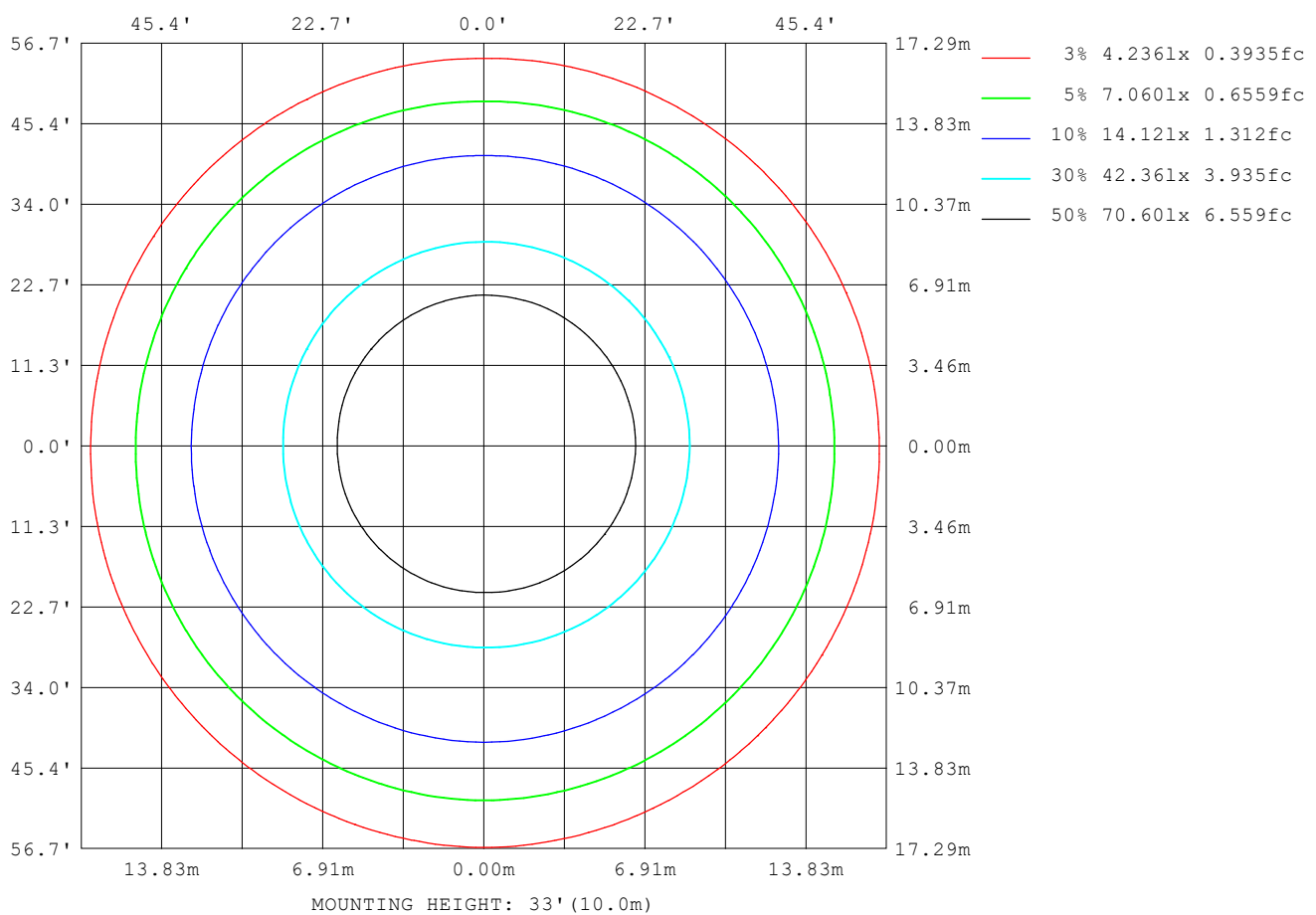
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: chen xue chang  
 Test Date: 2022-05-13

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



### ISOLUX DIAGRAM

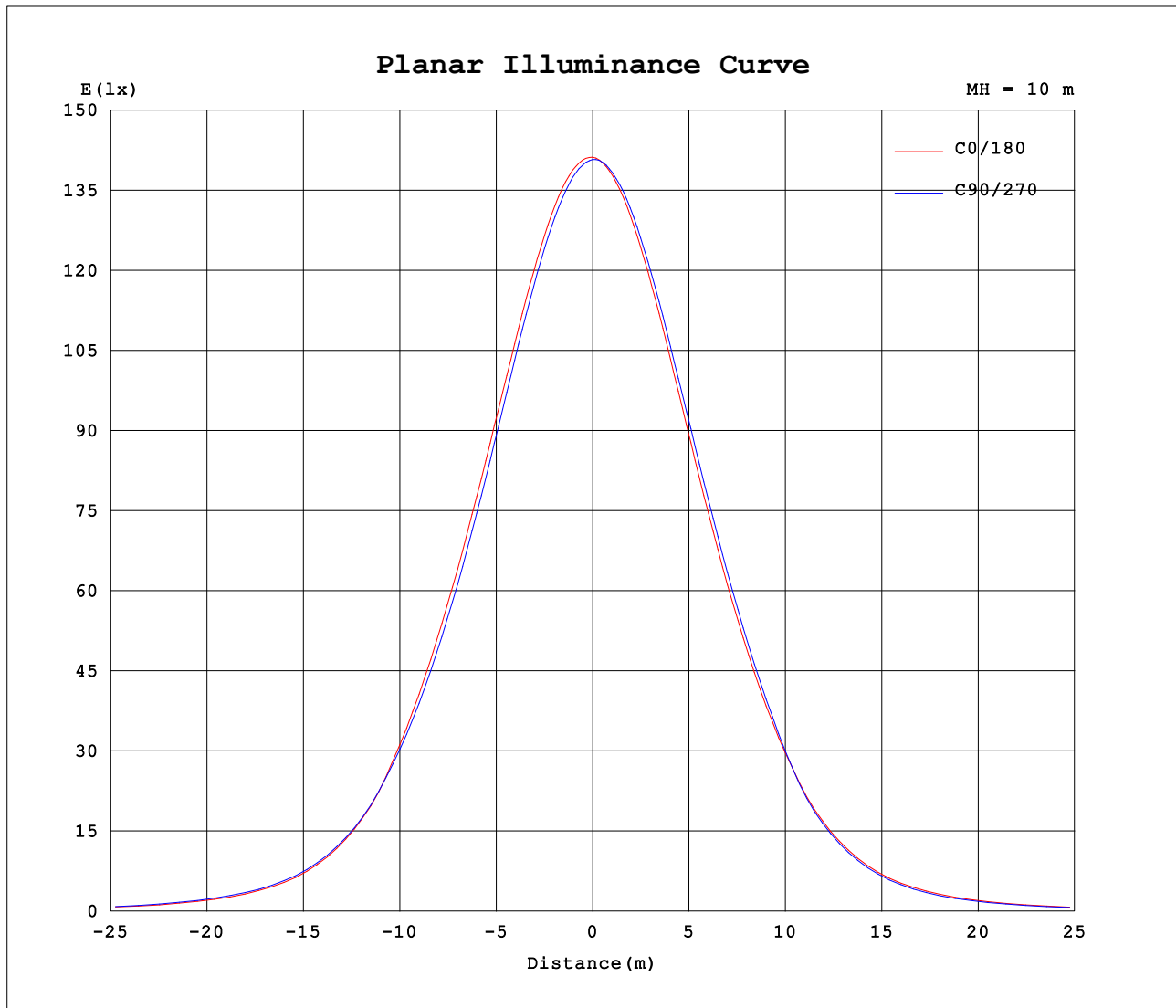
NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi 300 \times H150MM$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi 0.3$	PROTECTION ANGLE:



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: 7.300m [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: 7.300m [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:

```