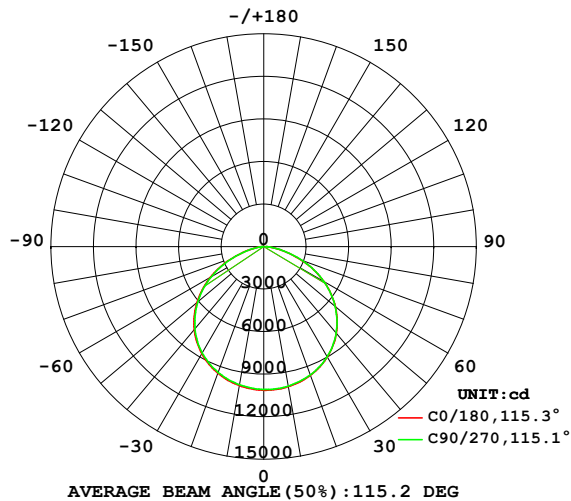


LUMINAIRE PHOTOMETRIC TEST REPORT

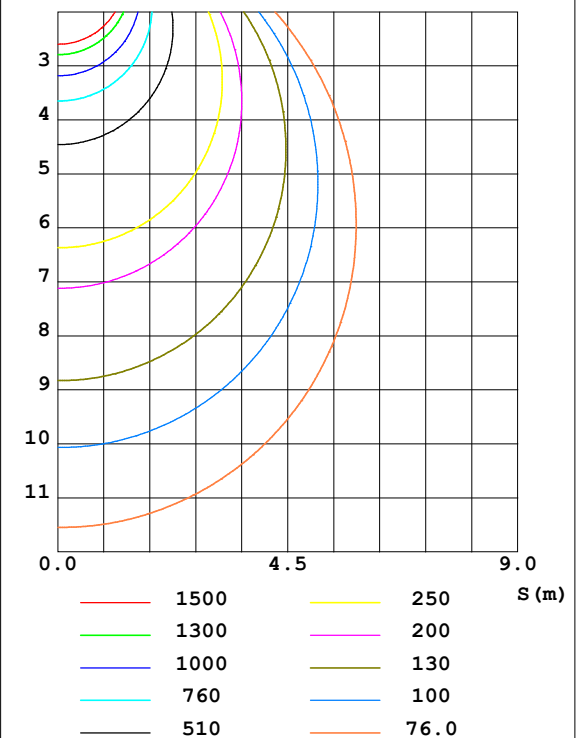
NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\phi 350 \times H170\text{mm}$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\phi 0.35$	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 144.73 lm/W			
MODEL	UFO200W-120D	Imax(cd)	10133	S/MH(C0/180)	1.32
NOMINAL POWER(W)	202.4	LOR(%)	100.0	S/MH(C90/270)	1.32
RATED VOLTAGE(V)	232	TOTAL FLUX(lm)	29294	η UP,DN(C0-180)	0.0,52.1
NOMINAL FLUX(lm)	29294	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,47.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	231.0	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: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:chen xue chang
Test Date:2022-03-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	1003	998.8	995.1	989.1					0- 10	957.9	957.9	3.27,3.27
20	965.9	962.6	950.2	943.5					10- 20	2767	3725	12.7,12.7
30	898.5	896.2	873.5	867.4					20- 30	4260	7985	27.3,27.3
40	797.4	795.3	763.0	754.6					30- 40	5225	13210	45.1,45.1
50	660.4	658.8	616.7	608.4					40- 50	5477	18687	63.8,63.8
60	487.9	488.2	437.0	429.4					50- 60	4929	23616	80.6,80.6
70	284.3	289.9	231.9	225.9					60- 70	3573	27189	92.8,92.8
80	98.33	102.2	62.59	59.27					70- 80	1711	28901	98.7,98.7
90	14.98	15.33	9.039	9.050					80- 90	393.3	29294	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		

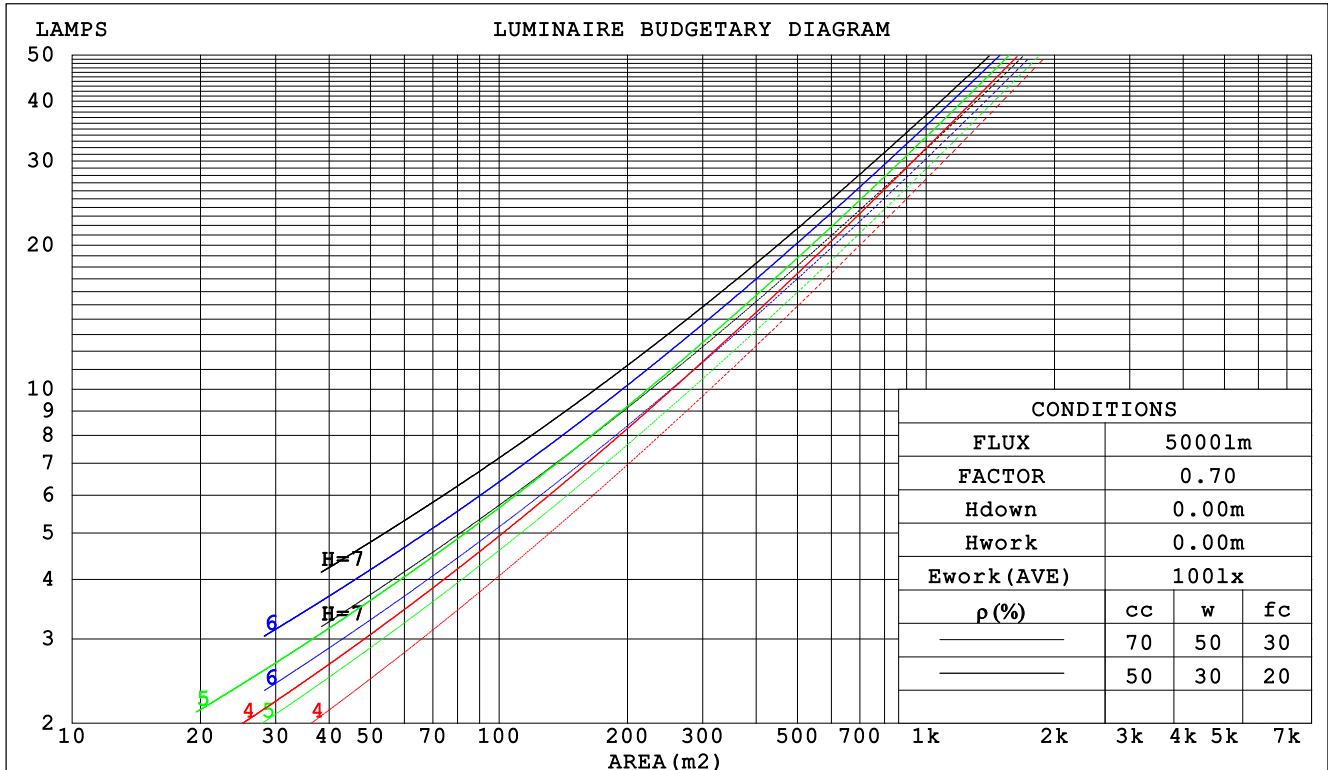
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:chen xue chang
 Test Date:2022-03-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:7.100m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\phi 350 \times H170\text{mm}$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\phi 0.35$	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			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	1.04	1.00	.97	1.02	.98	.95	.98	.95	.92	.94	.91	.89	.90	.88	.86	.84
2.0	.91	.84	.79	.89	.83	.78	.86	.81	.76	.82	.78	.74	.79	.76	.73	.70
3.0	.80	.72	.66	.78	.71	.65	.75	.69	.64	.73	.67	.63	.70	.66	.62	.59
4.0	.71	.62	.55	.70	.61	.55	.67	.60	.54	.65	.59	.54	.63	.57	.53	.51
5.0	.63	.54	.48	.62	.54	.47	.60	.53	.47	.58	.51	.46	.56	.50	.46	.44
6.0	.57	.48	.42	.56	.47	.41	.54	.47	.41	.52	.46	.41	.51	.45	.40	.38
7.0	.52	.43	.37	.51	.42	.36	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34
8.0	.47	.38	.33	.46	.38	.32	.45	.38	.32	.44	.37	.32	.43	.36	.32	.30
9.0	.43	.35	.29	.42	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.26	.39	.32	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-03-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 7.100m [K=1.0000]
 Remarks:

WEC AND CCEC

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\phi 350 \times H170mm$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\phi 0.35$	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	.299	.170	.054	.292	.167	.053	.279	.160	.051	.267	.154	.049	.255	.148	.048		
2.0	.285	.156	.048	.279	.154	.047	.267	.149	.046	.256	.144	.045	.246	.139	.044		
3.0	.266	.141	.042	.260	.139	.042	.250	.135	.041	.240	.132	.040	.231	.128	.040		
4.0	.246	.128	.038	.241	.126	.037	.232	.123	.037	.224	.120	.036	.216	.117	.036		
5.0	.228	.116	.034	.224	.115	.034	.216	.112	.033	.208	.110	.033	.201	.108	.032		
6.0	.212	.106	.030	.208	.105	.030	.201	.103	.030	.194	.101	.030	.188	.099	.029		
7.0	.198	.098	.028	.194	.097	.028	.188	.095	.027	.182	.093	.027	.176	.092	.027		
8.0	.185	.090	.025	.182	.090	.025	.176	.088	.025	.171	.087	.025	.166	.085	.025		
9.0	.174	.084	.023	.171	.083	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023		
10.0	.163	.078	.022	.161	.078	.022	.156	.077	.022	.152	.075	.021	.148	.074	.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	.180	.156	.135	.154	.134	.116	.105	.092	.080	.060	.053	.047	.019	.017	.015	
2.0	.171	.132	.099	.147	.114	.085	.101	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.164	.114	.075	.140	.099	.065	.096	.068	.046	.056	.040	.027	.018	.013	.009	
4.0	.156	.101	.059	.134	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.149	.091	.047	.128	.078	.041	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.142	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.033	.116	.065	.029	.080	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.129	.069	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.004	
9.0	.123	.065	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:chen xue chang
Test Date:2022-03-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

Uncorrected UGR Table

NAME: LED High Bay					TYPE:					WEIGHT:				
DIM.: $\phi 350 \times H170\text{mm}$					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					29.3	30.8	29.6	31.0	31.2	29.3	30.8	29.6	31.0	31.2
3H					30.7	32.1	31.0	32.3	32.6	30.7	32.1	31.0	32.4	32.6
4H					31.2	32.5	31.5	32.7	33.0	31.2	32.5	31.5	32.8	33.0
6H					31.4	32.7	31.8	33.0	33.2	31.5	32.7	31.8	33.0	33.3
8H					31.5	32.7	31.8	33.0	33.3	31.6	32.8	31.9	33.1	33.3
12H					31.5	32.7	31.9	33.0	33.3	31.6	32.8	32.0	33.1	33.4
4H 2H					29.9	31.2	30.2	31.5	31.7	29.9	31.2	30.2	31.5	31.7
3H					31.5	32.6	31.8	32.9	33.2	31.5	32.6	31.8	32.9	33.2
4H					32.0	33.1	32.4	33.4	33.7	32.1	33.1	32.4	33.4	33.8
6H					32.4	33.3	32.8	33.7	34.1	32.5	33.4	32.9	33.7	34.1
8H					32.5	33.4	32.9	33.7	34.1	32.6	33.4	33.0	33.8	34.2
12H					32.6	33.4	33.0	33.7	34.2	32.6	33.4	33.1	33.8	34.2
8H 4H					32.2	33.1	32.6	33.5	33.8	32.3	33.1	32.7	33.5	33.9
6H					32.7	33.4	33.2	33.8	34.3	32.8	33.5	33.2	33.9	34.3
8H					32.9	33.5	33.3	33.9	34.4	32.9	33.6	33.4	34.0	34.5
12H					33.0	33.5	33.5	34.0	34.5	33.1	33.6	33.6	34.1	34.5
12H 4H					32.2	33.0	32.7	33.4	33.8	32.3	33.1	32.7	33.4	33.8
6H					32.7	33.4	33.2	33.8	34.3	32.8	33.4	33.3	33.9	34.3
8H					32.9	33.5	33.4	33.9	34.4	33.0	33.5	33.5	34.0	34.5
Variations with the observer position at spacings:														
S = 1.0H					+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H					+ 0.2 / - 0.4					+ 0.2 / - 0.4				
2.0H					+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 29294 lm Total Lamp Luminous Flux. (8log(F/F0) = 11.7)

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-03-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 7.100m [K=1.0000]
 Remarks:

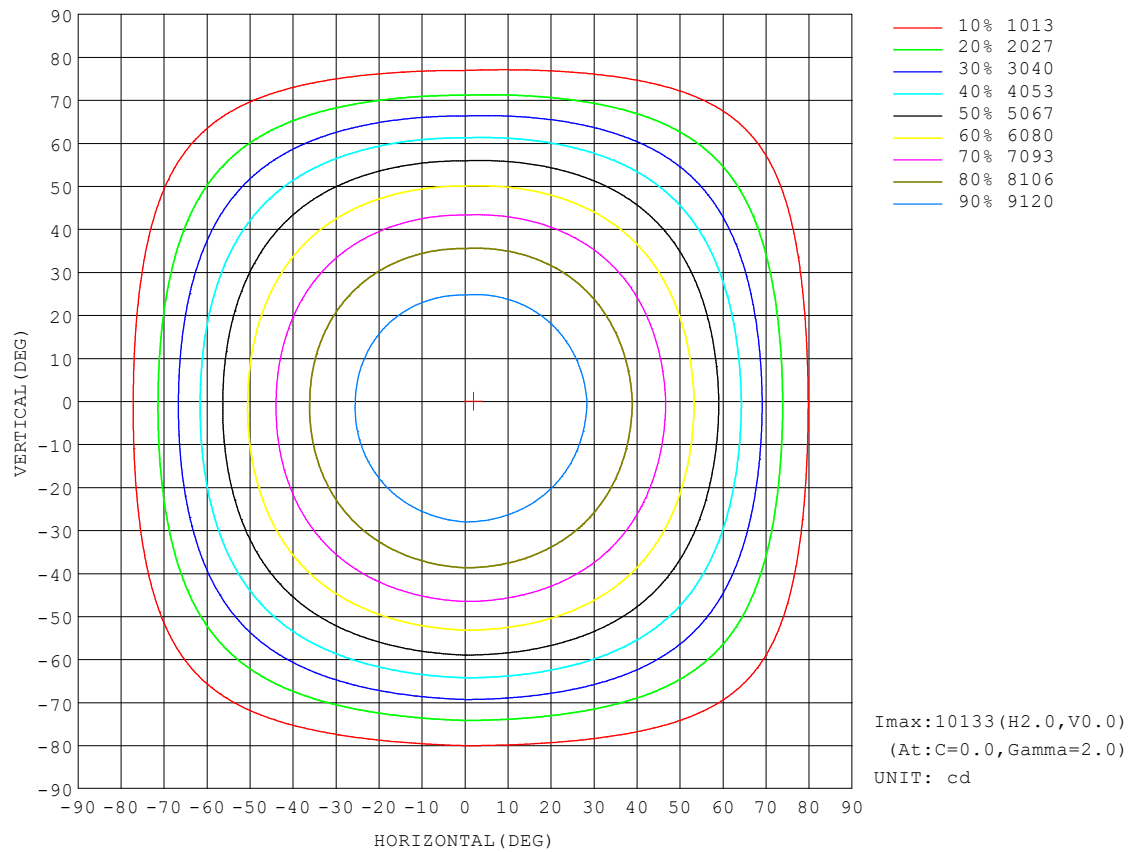
```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

```

ISOCANDELA DIAGRAM

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\phi 350 \times H170\text{mm}$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\phi 0.35$	PROTECTION ANGLE:

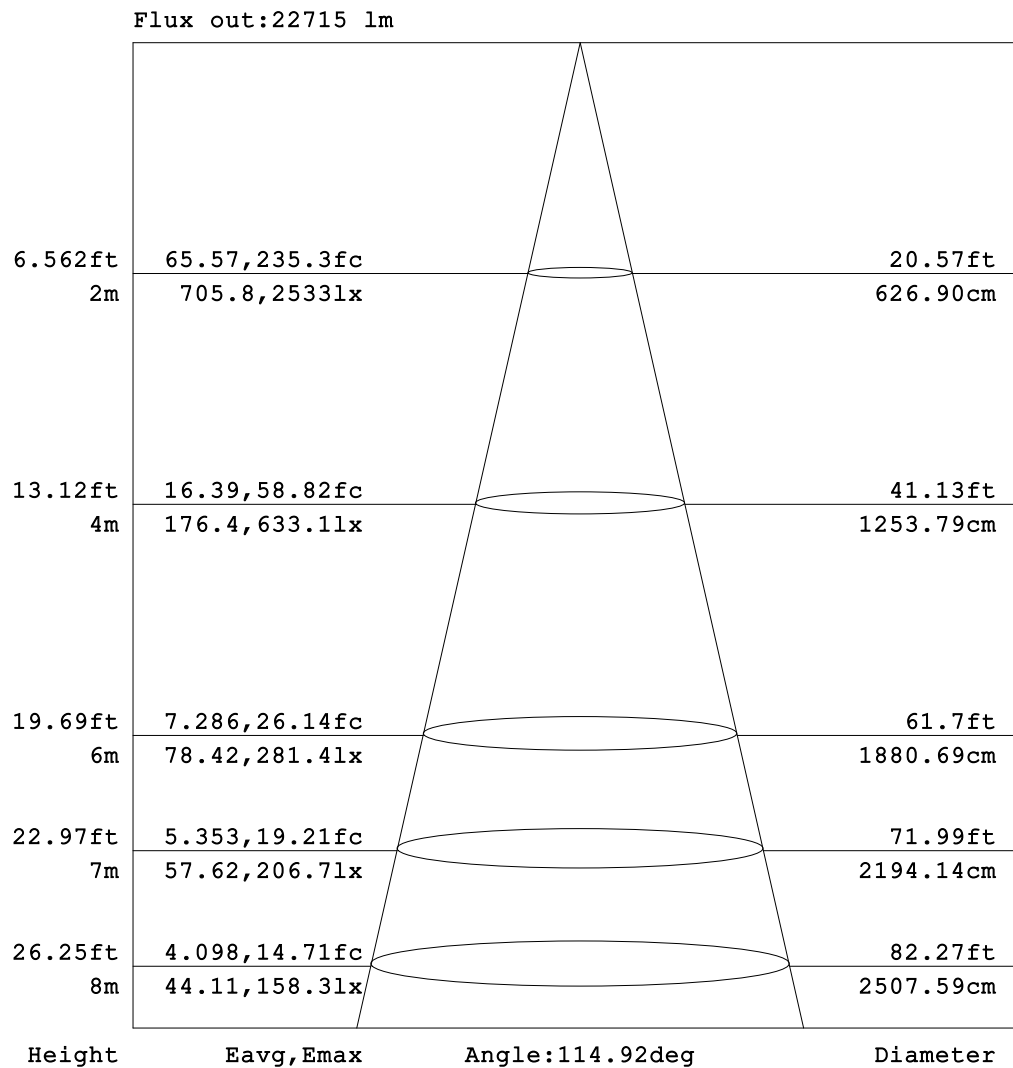


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:chen xue chang
Test Date:2022-03-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.100m [K=1.0000]
Remarks:

AAI Figure

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\phi 350 \times H170\text{mm}$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\phi 0.35$	PROTECTION ANGLE:



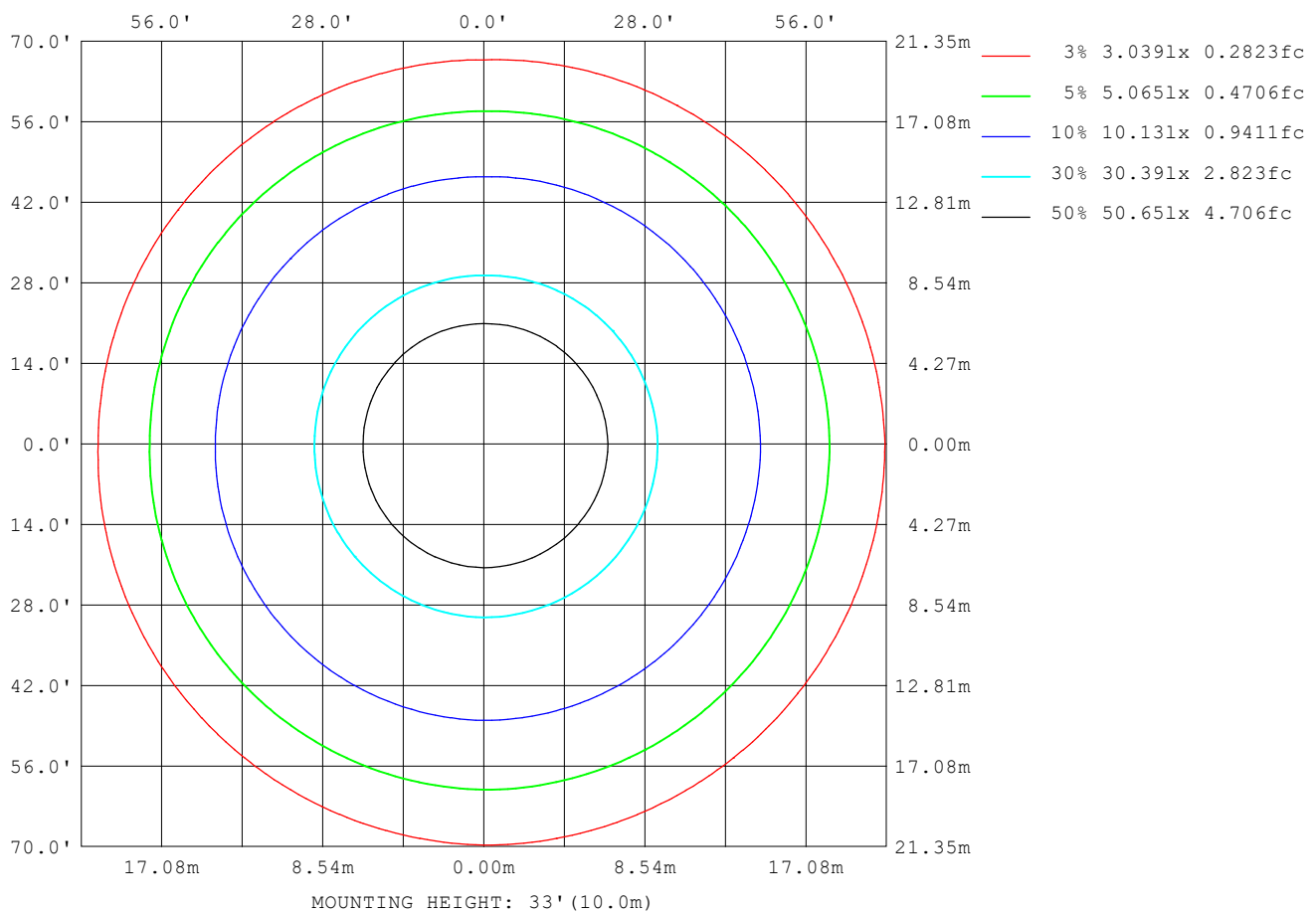
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-03-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 7.100m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

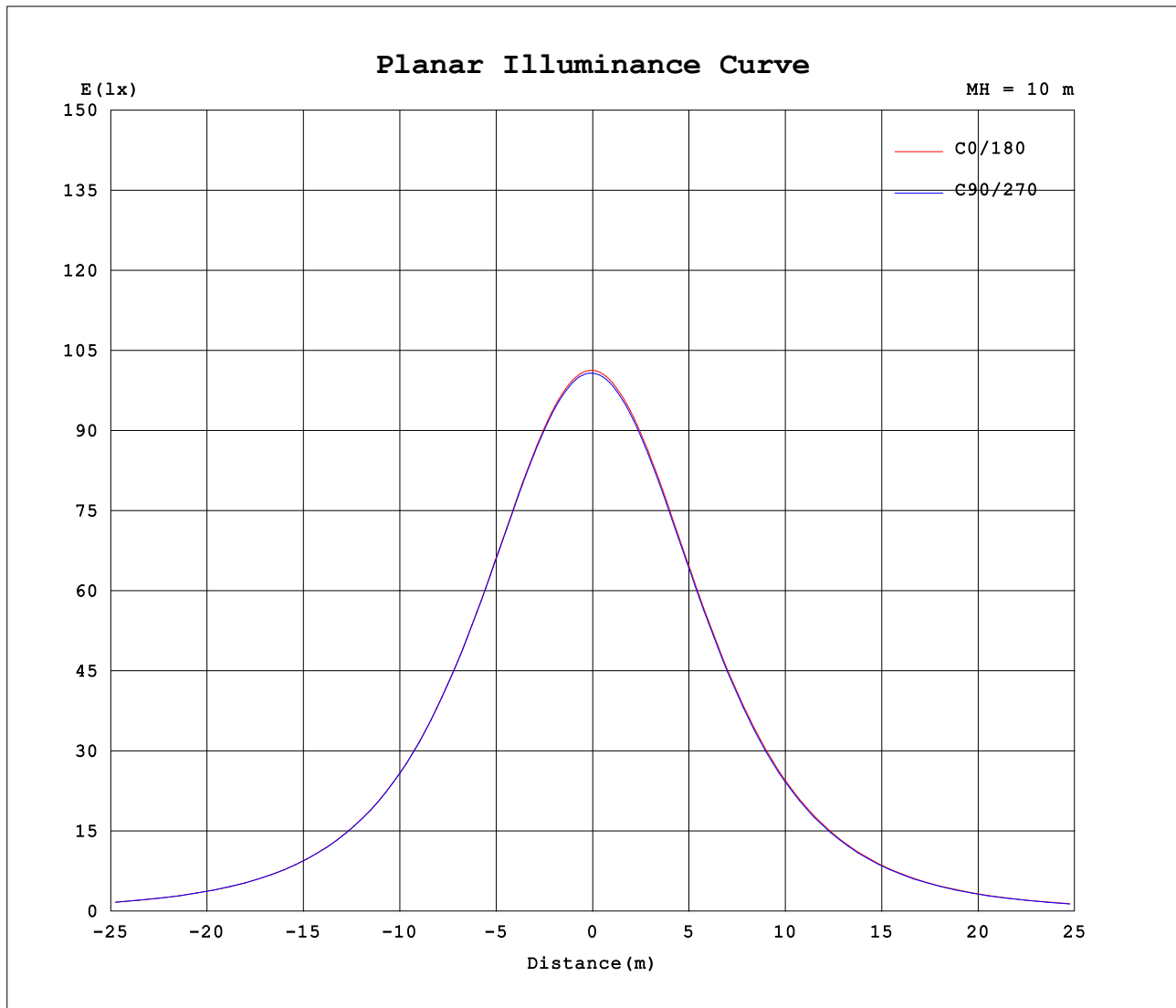
NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\phi 350 \times H170\text{mm}$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\phi 0.35$	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-03-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 7.100m [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: 2022-03-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 7.100m [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:7.100m [K=1.0000]
Remarks:

```