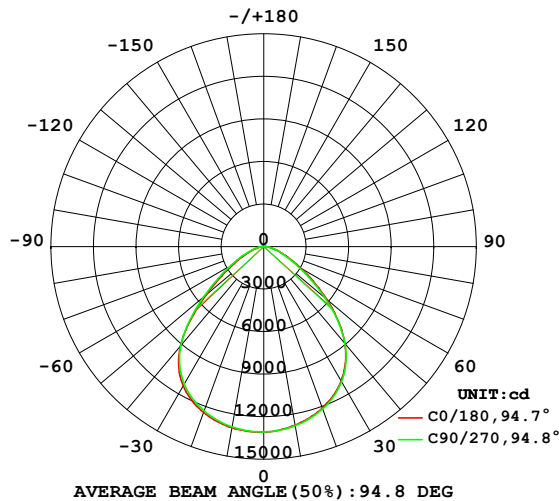


LUMINAIRE PHOTOMETRIC TEST REPORT

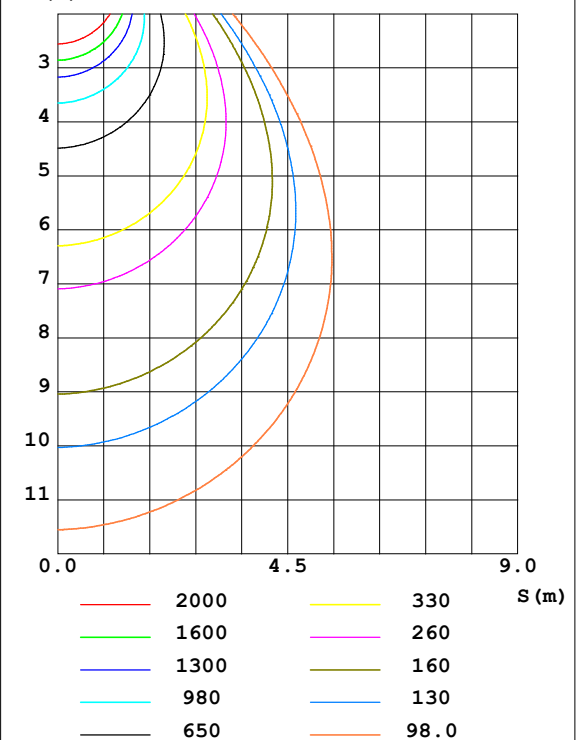
NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\phi 350 \times H170\text{mm}$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\phi 0.35$	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 147.45 lm/W
MODEL	UFO200W-90D	Imax (cd)	13087	S/MH (C0/180)	1.24	
NOMINAL POWER (W)	195	LOR (%)	100.0	S/MH (C90/270)	1.25	
RATED VOLTAGE (V)	238	TOTAL FLUX (lm)	28753	η UP, DN (C0-180)	0.0, 50.5	
NOMINAL FLUX (lm)	28753	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.5	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE (V)	238.5	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: 2022-04-01

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 6.600m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	1279	1282	1296	1291					0- 10	1238	1238	4.31,4.31
20	1212	1217	1245	1233					10- 20	3564	4802	16.7,16.7
30	1092	1099	1135	1121					20- 30	5422	10224	35.6,35.6
40	889.8	891.1	914.7	908.9					30- 40	6366	16589	57.7,57.7
50	584.9	565.6	530.9	557.3					40- 50	5661	22250	77.4,77.4
60	298.8	281.1	241.6	270.1					50- 60	3595	25845	89.9,89.9
70	135.5	128.3	102.3	116.9					60- 70	1858	27703	96.3,96.3
80	53.72	48.34	34.67	41.31					70- 80	825.9	28529	99.2,99.2
90	11.24	11.11	8.715	8.634					80- 90	224.1	28753	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		

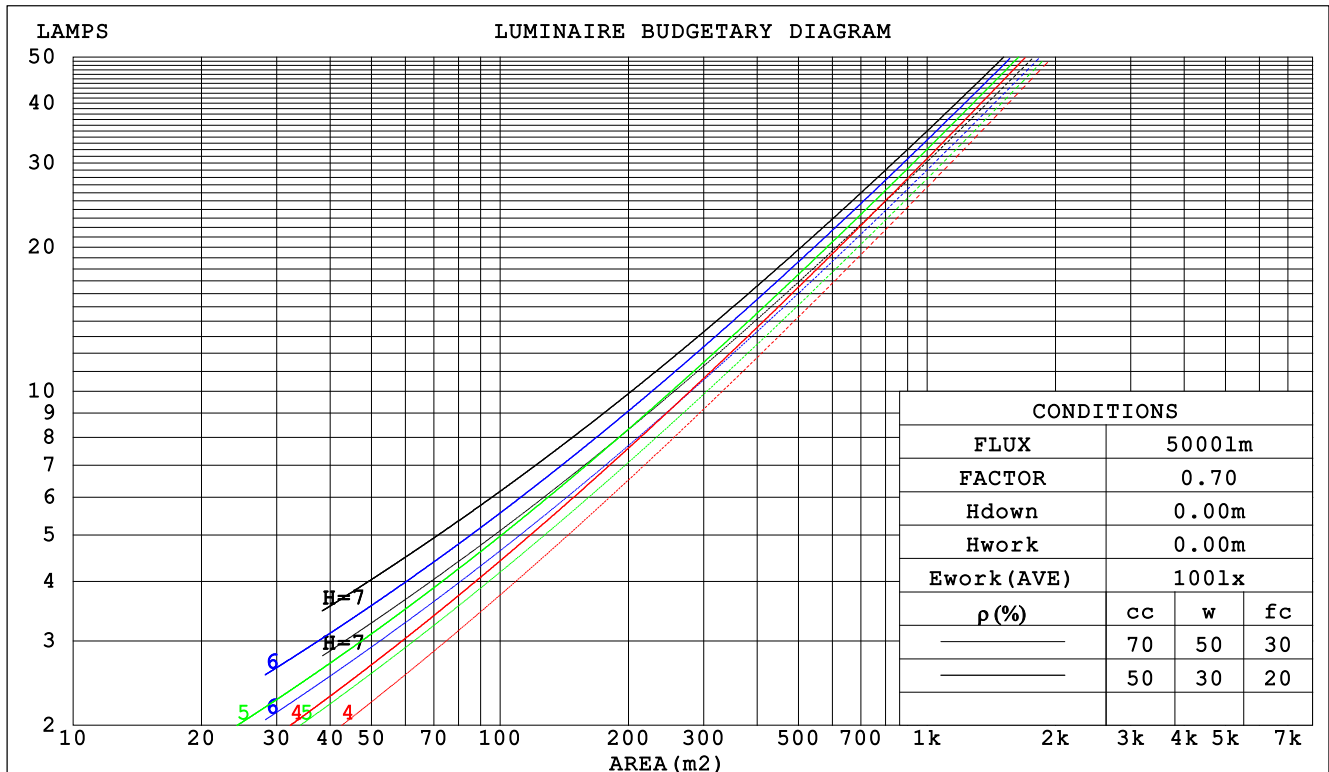
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:chen xue chang
 Test Date:2022-04-01

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity:65.0%
 Test Distance:6.600m [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	1.07	1.03	.00	1.04	1.01	.98	1.00	.98	.95	.96	.94	.92	.93	.91	.90	.88
2.0	.95	.89	.84	.93	.88	.83	.90	.85	.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	.61	.55	.66	.59	.54	.64	.58	.54	.62	.57	.53	.51
6.0	.63	.55	.49	.62	.54	.49	.60	.53	.48	.59	.53	.48	.57	.52	.47	.46
7.0	.57	.49	.44	.57	.49	.44	.55	.48	.43	.54	.48	.43	.52	.47	.43	.41
8.0	.53	.45	.39	.52	.44	.39	.51	.44	.39	.50	.43	.39	.48	.43	.39	.37
9.0	.49	.41	.36	.48	.41	.36	.47	.40	.35	.46	.40	.35	.45	.39	.35	.33
10.0	.45	.37	.33	.44	.37	.32	.43	.37	.32	.43	.36	.32	.42	.36	.32	.30



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-04-01

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 6.600m [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	.256	.145	.046	.249	.142	.045	.236	.135	.043	.224	.129	.041	.213	.123	.040		
2.0	.246	.135	.041	.240	.132	.041	.229	.127	.040	.219	.123	.038	.209	.118	.037		
3.0	.233	.124	.037	.228	.122	.037	.218	.118	.036	.209	.114	.035	.200	.111	.034		
4.0	.219	.114	.033	.214	.112	.033	.206	.109	.033	.197	.106	.032	.190	.103	.031		
5.0	.206	.105	.030	.201	.103	.030	.194	.101	.030	.186	.098	.029	.180	.096	.029		
6.0	.193	.097	.028	.189	.096	.028	.183	.094	.027	.176	.092	.027	.170	.090	.027		
7.0	.182	.090	.025	.178	.089	.025	.172	.087	.025	.166	.085	.025	.161	.084	.025		
8.0	.171	.084	.024	.168	.083	.023	.163	.081	.023	.158	.080	.023	.153	.078	.023		
9.0	.162	.078	.022	.159	.078	.022	.154	.076	.022	.150	.075	.021	.145	.074	.021		
10.0	.153	.073	.020	.151	.073	.020	.146	.072	.020	.142	.071	.020	.138	.069	.020		

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	.177	.157	.139	.151	.134	.119	.103	.092	.083	.059	.054	.048	.019	.017	.016	
2.0	.166	.132	.103	.142	.114	.089	.098	.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	.036	.111	.064	.031	.077	.045	.022	.045	.027	.013	.014	.009	.004	
8.0	.123	.068	.031	.106	.059	.027	.073	.042	.019	.043	.024	.011	.014	.008	.004	
9.0	.117	.063	.027	.101	.055	.023	.070	.039	.016	.041	.023	.010	.013	.007	.003	
10.0	.112	.059	.024	.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:2022-04-01

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:6.600m [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	2H	27.5	28.9	27.8	29.1	29.2	27.4	28.7	27.6	28.9	29.1			
	3H	28.1	29.3	28.3	29.5	29.8	27.9	29.1	28.2	29.4	29.6			
	4H	28.3	29.4	28.6	29.7	29.9	28.1	29.2	28.4	29.5	29.7			
	6H	28.4	29.5	28.7	29.8	30.0	28.2	29.3	28.5	29.6	29.8			
	8H	28.4	29.5	28.8	29.8	30.1	28.2	29.3	28.5	29.6	29.8			
	12H	28.5	29.5	28.8	29.8	30.1	28.2	29.2	28.6	29.5	29.8			
4H	2H	27.7	28.9	28.0	29.1	29.4	27.6	28.8	27.9	29.0	29.3			
	3H	28.4	29.4	28.8	29.7	30.0	28.3	29.3	28.6	29.6	29.9			
	4H	28.7	29.6	29.1	29.9	30.3	28.5	29.5	28.9	29.8	30.1			
	6H	29.0	29.8	29.3	30.1	30.5	28.8	29.6	29.2	29.9	30.3			
	8H	29.1	29.8	29.5	30.2	30.5	28.8	29.6	29.2	29.9	30.3			
	12H	29.1	29.8	29.5	30.2	30.6	28.9	29.5	29.3	29.9	30.3			
8H	4H	28.8	29.5	29.2	29.9	30.3	28.6	29.4	29.0	29.7	30.1			
	6H	29.1	29.7	29.6	30.1	30.6	28.9	29.6	29.4	30.0	30.4			
	8H	29.3	29.8	29.7	30.2	30.7	29.1	29.6	29.5	30.0	30.5			
	12H	29.4	29.8	29.8	30.3	30.8	29.1	29.6	29.6	30.0	30.5			
12H	4H	28.8	29.4	29.2	29.8	30.2	28.6	29.3	29.0	29.7	30.1			
	6H	29.1	29.7	29.6	30.1	30.6	29.0	29.5	29.4	29.9	30.4			
	8H	29.3	29.8	29.8	30.2	30.7	29.1	29.6	29.6	30.0	30.5			
Variations with the observer position at spacings:														
S = 1.0H		+ 0.5 / - 0.6					+ 0.6 / - 0.7							
1.5H		+ 0.3 / - 0.2					+ 0.3 / - 0.3							
2.0H		+ 1.2 / - 1.1					+ 1.2 / - 1.1							

CIE Pub.117 Corrected 28753 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: 2022-04-01

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 6.600m [K=1.0000]
Remarks:

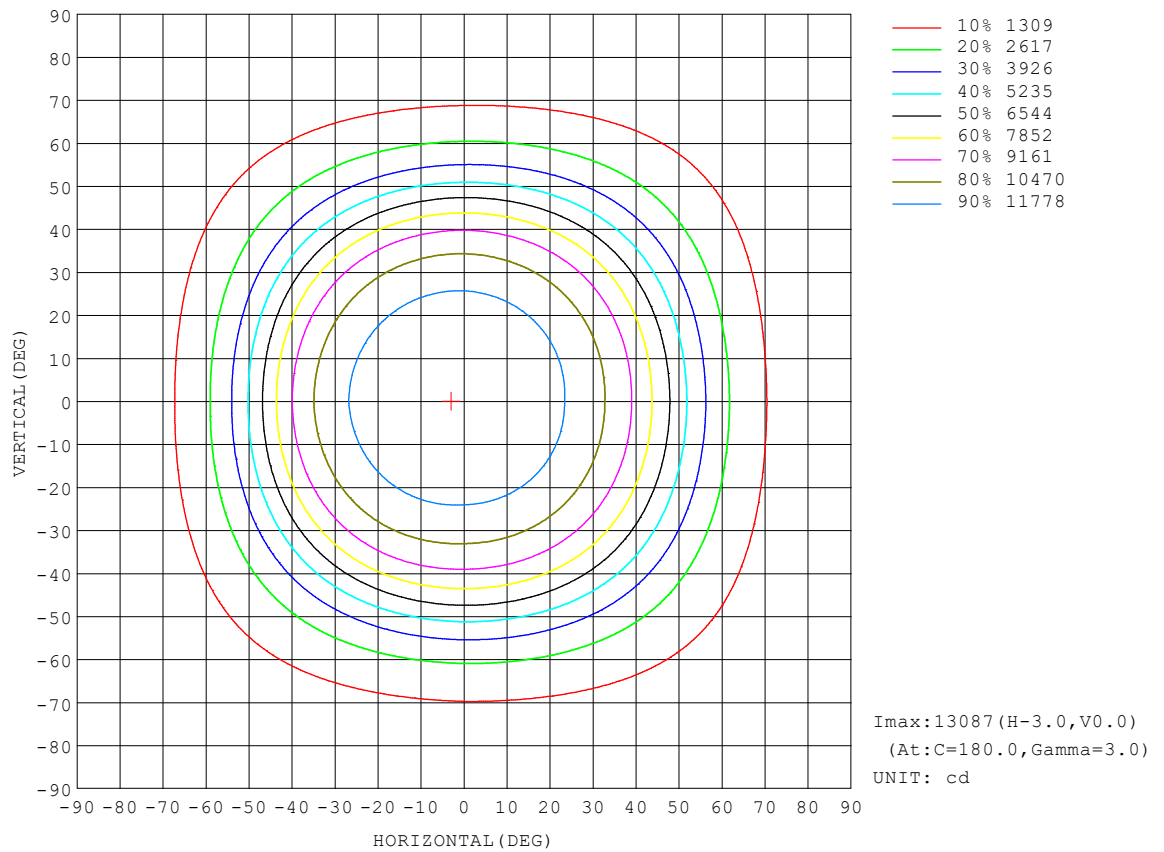
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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:6.600m [K=1.0000]
Remarks:

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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:

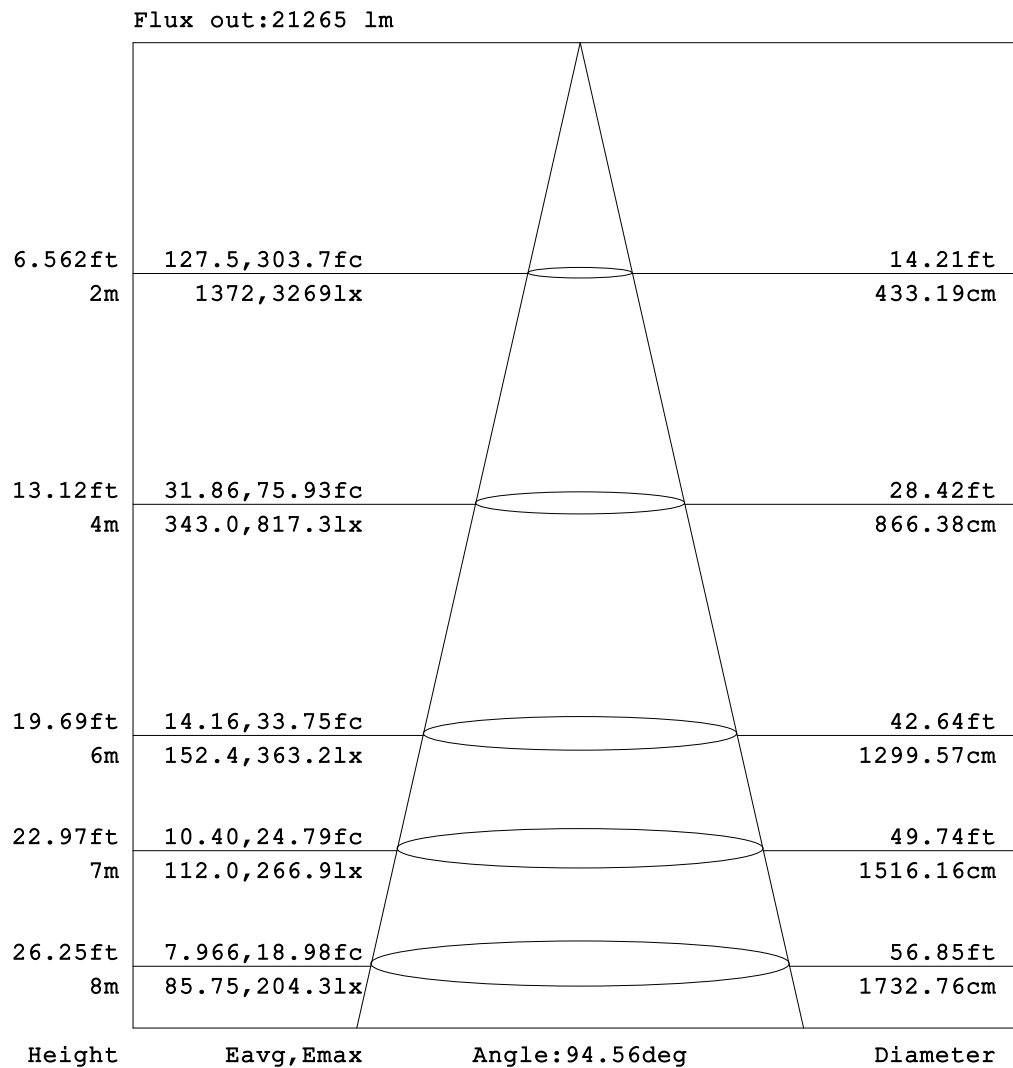


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-04-01

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 6.600m [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:



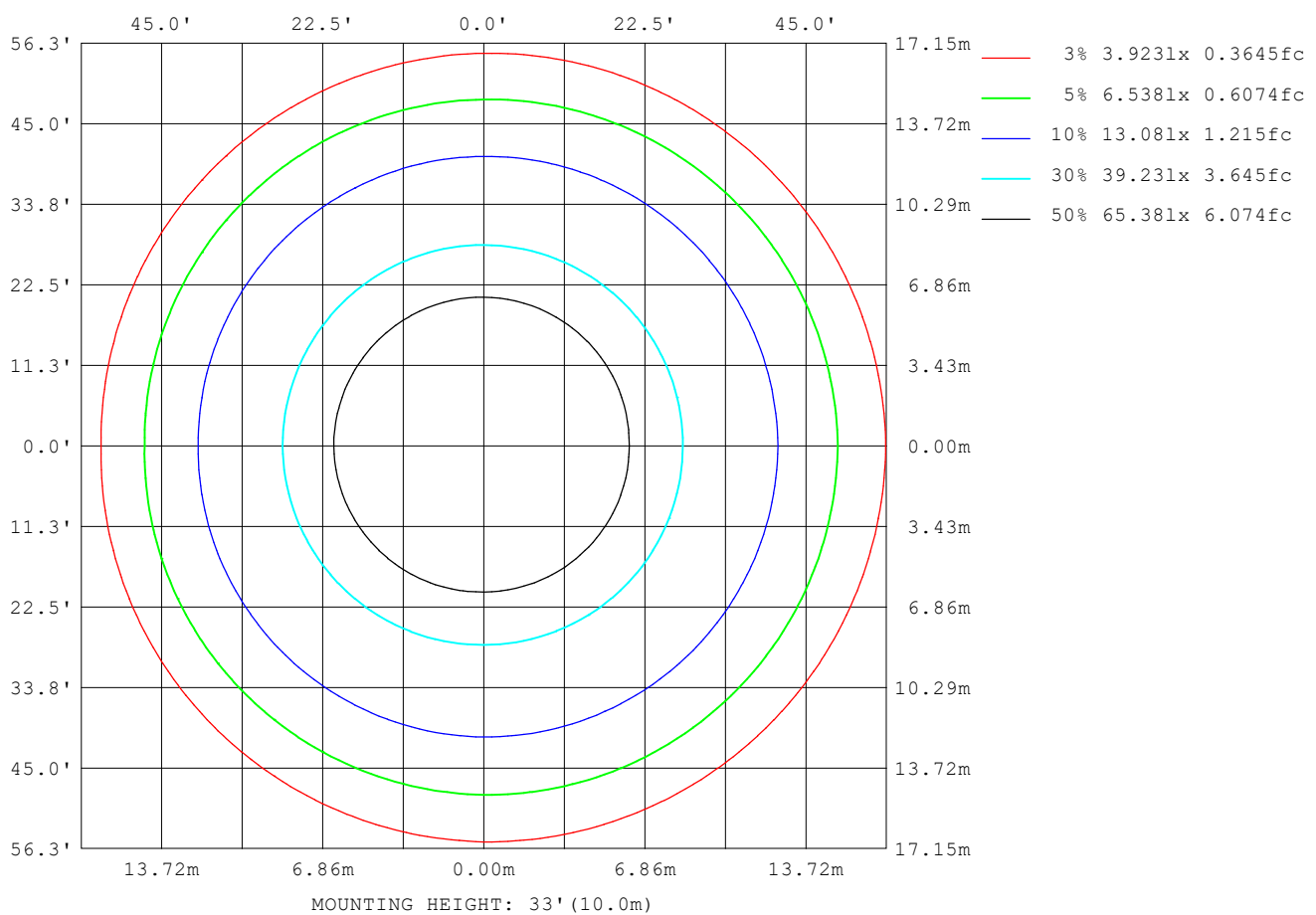
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-04-01

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 6.600m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

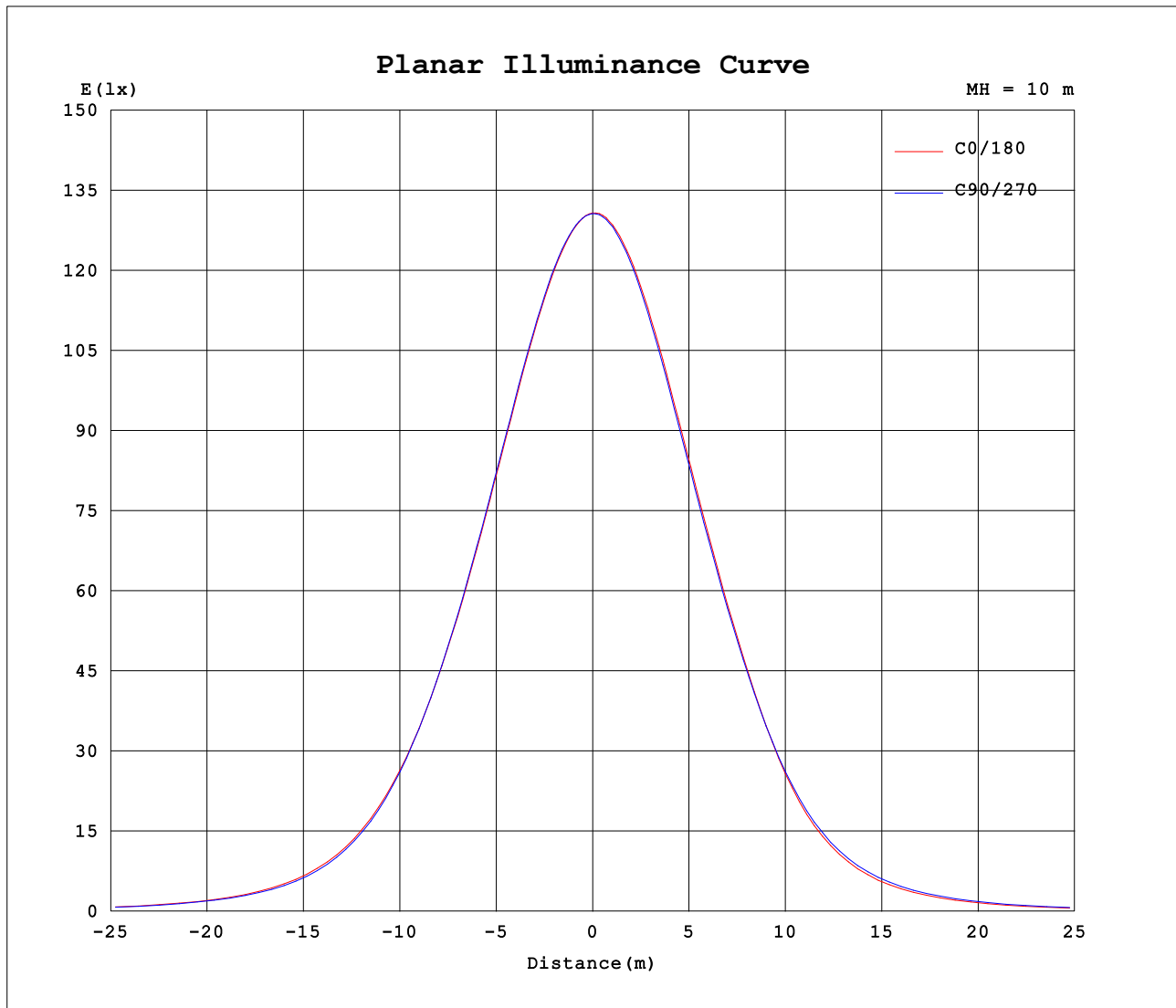
NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\phi 350 \times H170\text{mm}$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\phi 0.35$	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-04-01

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
 Humidity: 65.0%
 Test Distance: 6.600m [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: 2022-04-01

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.269
Humidity: 65.0%
Test Distance: 6.600m [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:6.600m [K=1.0000]
Remarks:

```