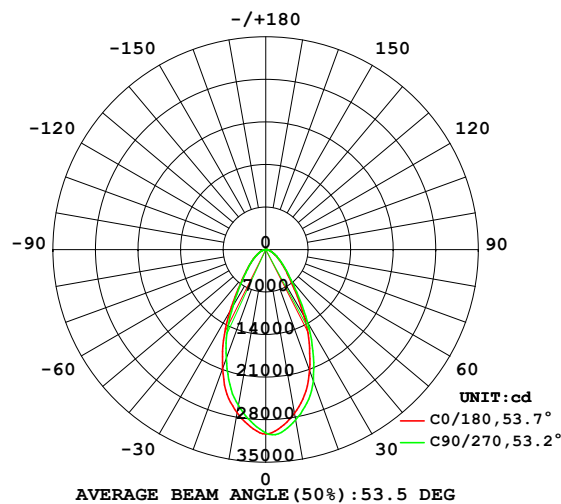


LUMINAIRE PHOTOMETRIC TEST REPORT

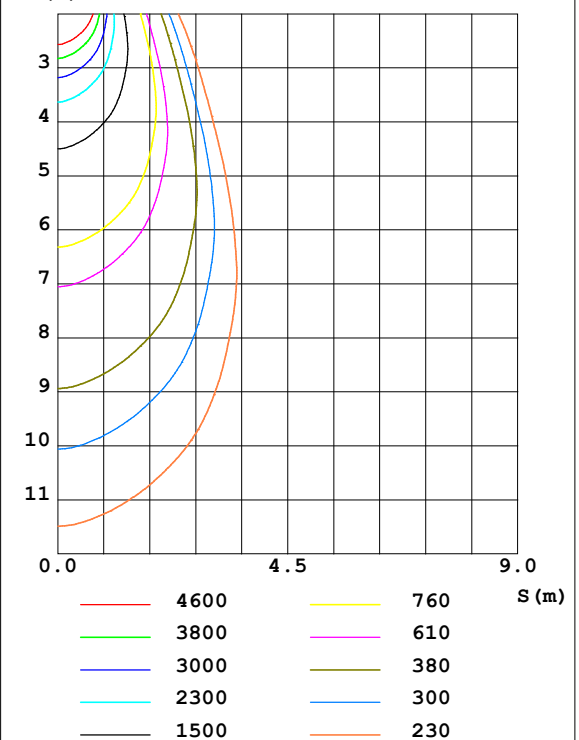
NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\phi 350 \times H170\text{mm}$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\phi 0.35$	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 150.24 lm/W
MODEL	UFO-200W-60D	I _{max} (cd)	30495	S/MH (C0/180)	0.82	
NOMINAL POWER (W)	200.2	LOR (%)	100.0	S/MH (C90/270)	0.87	
RATED VOLTAGE (V)	234	TOTAL FLUX (lm)	30003	η UP, DN (C0-180)	0.0, 52.9	
NOMINAL FLUX (lm)	30002.7	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 47.1	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE (V)	233.1	η down (%)	100.0	CIBSE SHR MAX	0.85	

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: 2022-04-02

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	2735	2845	2728	2605					0- 10	2730	2730	9.1,9.1
20	2111	2293	2079	1903					10- 20	6837	9567	31.9,31.9
30	1260	1373	1183	1092					20- 30	7603	17170	57.2,57.2
40	603.7	651.7	551.7	535.6					30- 40	5337	22507	75,75
50	334.0	350.4	301.3	297.2					40- 50	3358	25865	86.2,86.2
60	181.4	191.5	160.9	156.9					50- 60	2147	28012	93.4,93.4
70	94.65	99.34	80.05	77.87					60- 70	1252	29265	97.5,97.5
80	32.67	34.58	22.79	21.72					70- 80	588.2	29853	99.5,99.5
90	9.916	10.07	8.102	8.149					80- 90	149.9	30003	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		

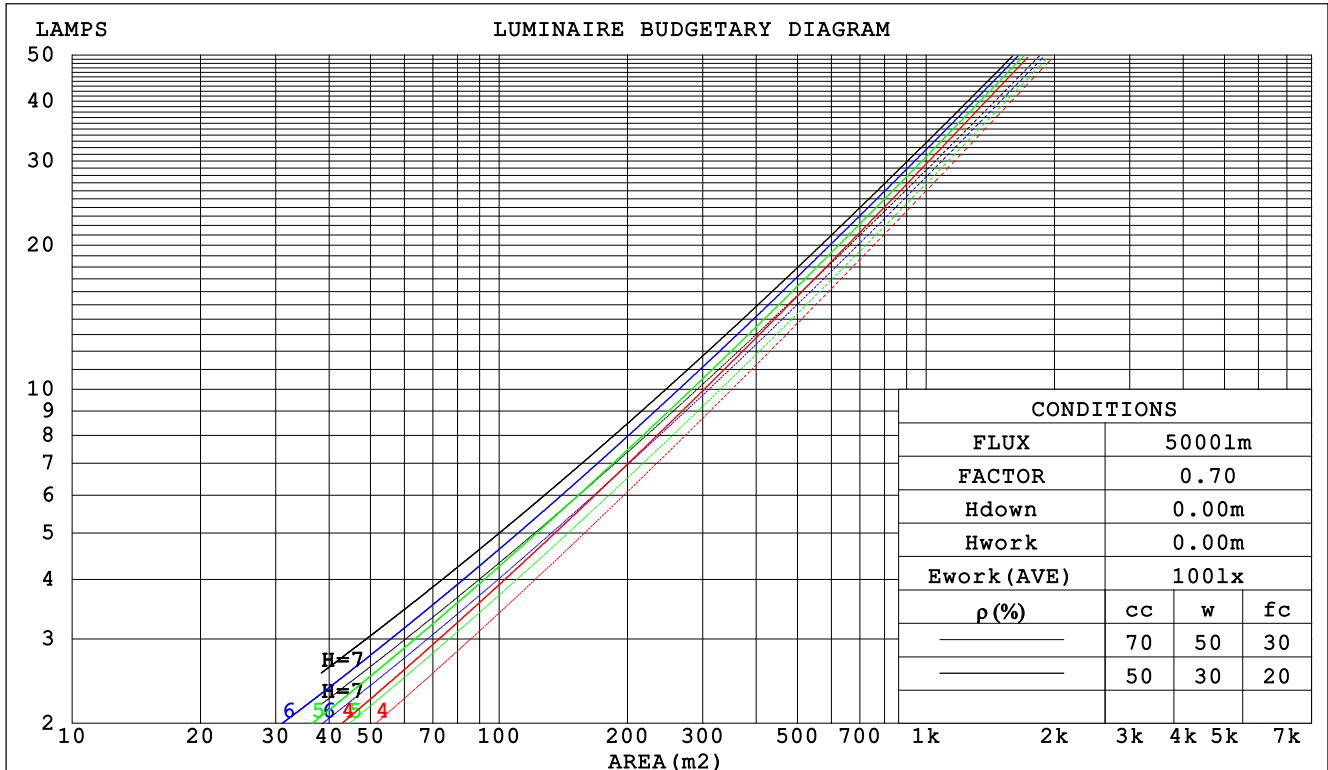
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:chen xue chang
 Test Date:2022-04-02

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	1.09	1.06	1.03	1.06	1.04	1.01	1.02	1.00	.98	.99	.97	.95	.95	.94	.92	.91
2.0	.99	.94	.90	.97	.93	.89	.94	.90	.87	.91	.88	.85	.88	.86	.83	.82
3.0	.91	.85	.80	.89	.84	.79	.87	.82	.78	.84	.80	.77	.82	.78	.76	.74
4.0	.84	.77	.72	.82	.76	.72	.80	.75	.71	.78	.73	.70	.76	.72	.69	.67
5.0	.77	.70	.65	.76	.70	.65	.74	.69	.64	.73	.68	.64	.71	.67	.63	.62
6.0	.72	.65	.60	.71	.64	.60	.69	.64	.59	.68	.63	.59	.66	.62	.58	.57
7.0	.67	.60	.55	.66	.60	.55	.65	.59	.55	.64	.58	.54	.62	.58	.54	.52
8.0	.63	.56	.51	.62	.56	.51	.61	.55	.51	.60	.54	.51	.59	.54	.50	.49
9.0	.59	.52	.48	.58	.52	.48	.57	.51	.47	.56	.51	.47	.55	.51	.47	.46
10.0	.55	.49	.45	.55	.49	.45	.54	.48	.44	.53	.48	.44	.52	.48	.44	.43



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-04-02

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	.218	.124	.039	.211	.120	.038	.198	.114	.036	.186	.108	.034	.176	.102	.033		
2.0	.208	.114	.035	.202	.111	.034	.191	.106	.033	.181	.102	.032	.172	.097	.031		
3.0	.196	.105	.031	.191	.103	.031	.182	.099	.030	.173	.095	.029	.165	.091	.028		
4.0	.185	.096	.028	.181	.094	.028	.172	.091	.027	.165	.088	.027	.158	.086	.026		
5.0	.174	.089	.026	.170	.087	.025	.163	.085	.025	.156	.082	.025	.150	.080	.024		
6.0	.164	.082	.024	.161	.081	.023	.155	.079	.023	.149	.077	.023	.143	.075	.022		
7.0	.155	.077	.022	.152	.076	.022	.147	.074	.021	.141	.072	.021	.136	.071	.021		
8.0	.147	.072	.020	.144	.071	.020	.139	.070	.020	.135	.068	.020	.130	.067	.019		
9.0	.140	.068	.019	.137	.067	.019	.133	.066	.019	.128	.064	.018	.124	.063	.018		
10.0	.133	.064	.018	.131	.063	.018	.127	.062	.017	.123	.061	.017	.119	.060	.017		

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	.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	.017	.015	.012	
3.0	.150	.114	.085	.129	.098	.073	.088	.068	.052	.051	.040	.030	.016	.013	.010	
4.0	.141	.100	.068	.121	.086	.059	.083	.060	.042	.048	.035	.025	.015	.011	.008	
5.0	.133	.088	.056	.114	.076	.048	.079	.053	.034	.046	.031	.020	.015	.010	.007	
6.0	.126	.079	.046	.108	.069	.040	.074	.048	.028	.043	.028	.017	.014	.009	.006	
7.0	.119	.072	.039	.102	.062	.034	.071	.044	.024	.041	.026	.014	.013	.008	.005	
8.0	.113	.066	.034	.097	.057	.029	.067	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.108	.061	.029	.093	.053	.026	.064	.037	.018	.037	.022	.011	.012	.007	.004	
10.0	.103	.057	.026	.089	.049	.022	.061	.035	.016	.036	.020	.010	.012	.007	.003	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-04-02

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					24.3	25.5	24.6	25.6	25.8	24.6	25.7	24.8	25.9	26.1
3H					25.0	26.0	25.3	26.2	26.5	25.2	26.3	25.5	26.5	26.7
4H					25.2	26.2	25.5	26.5	26.7	25.5	26.5	25.8	26.7	26.9
6H					25.4	26.3	25.7	26.6	26.8	25.6	26.6	26.0	26.8	27.1
8H					25.4	26.3	25.7	26.6	26.8	25.7	26.6	26.0	26.8	27.1
12H					25.4	26.3	25.7	26.5	26.8	25.7	26.5	26.0	26.8	27.1
4H 2H					24.6	25.6	24.9	25.8	26.0	24.8	25.8	25.1	26.0	26.2
3H					25.4	26.3	25.8	26.6	26.9	25.6	26.5	26.0	26.8	27.1
4H					25.8	26.6	26.1	26.9	27.2	26.0	26.8	26.4	27.1	27.4
6H					26.0	26.7	26.4	27.0	27.4	26.2	26.9	26.6	27.3	27.6
8H					26.1	26.7	26.5	27.1	27.4	26.3	26.9	26.7	27.3	27.7
12H					26.1	26.7	26.5	27.1	27.5	26.3	26.9	26.7	27.3	27.7
8H 4H					25.9	26.5	26.3	26.9	27.3	26.1	26.7	26.5	27.1	27.5
6H					26.2	26.7	26.6	27.1	27.5	26.4	26.9	26.8	27.3	27.8
8H					26.3	26.8	26.8	27.2	27.6	26.5	27.0	27.0	27.4	27.8
12H					26.4	26.8	26.8	27.2	27.7	26.6	27.0	27.1	27.4	27.9
12H 4H					25.9	26.5	26.3	26.8	27.2	26.1	26.7	26.5	27.0	27.4
6H					26.2	26.7	26.7	27.1	27.5	26.4	26.9	26.9	27.3	27.7
8H					26.3	26.7	26.8	27.2	27.6	26.5	26.9	27.0	27.4	27.8
Variations with the observer position at spacings:														
S = 1.0H					+ 0.6 / - 0.7					+ 0.6 / - 0.7				
1.5H					+ 0.6 / - 0.5					+ 0.7 / - 0.4				
2.0H					+ 1.0 / - 0.8					+ 1.1 / - 0.8				

CIE Pub.117 Corrected 30003 lm Total Lamp Luminous Flux. (8log(F/F0) = 11.8)

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-04-02

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:

UTILIZATION FACTORS TABLE

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

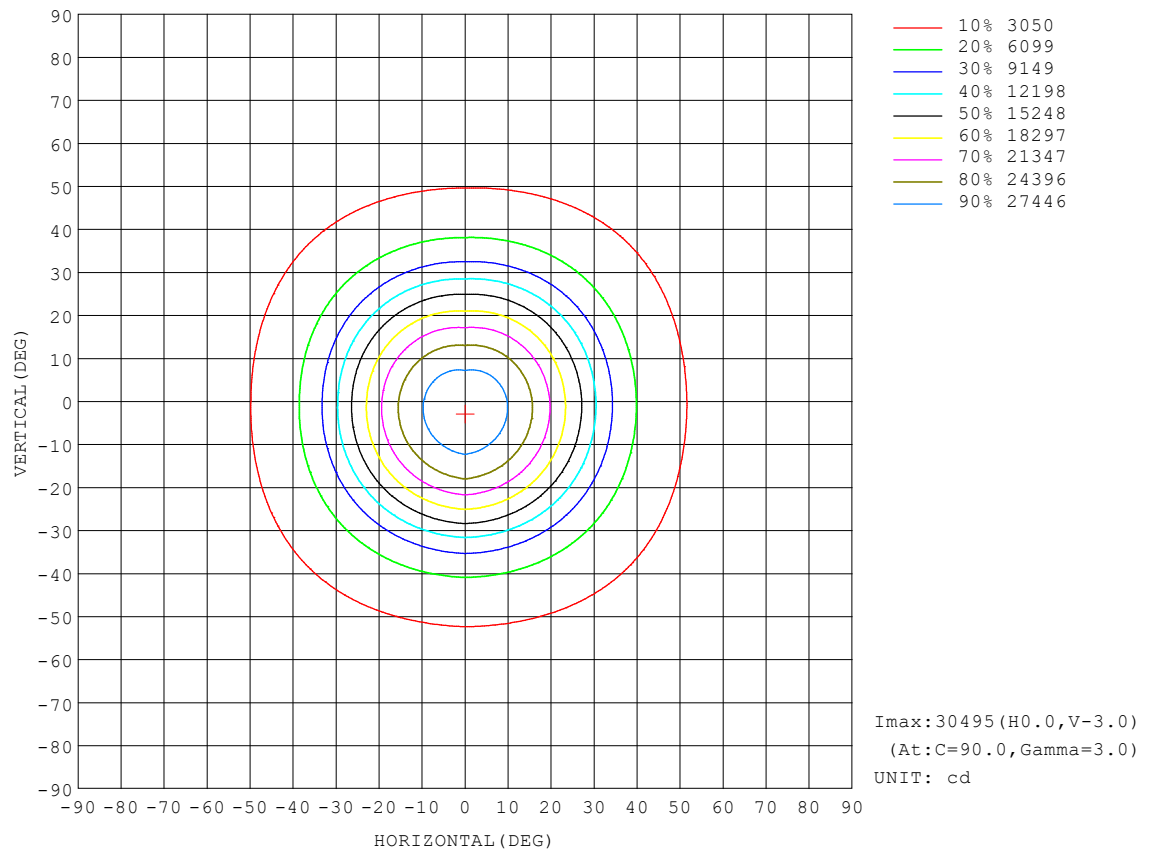
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	76	68	63	75	67	62	74	67	62	58
0.80	85	77	72	84	76	71	82	76	71	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	81
2.00	104	98	94	102	97	93	99	95	92	86
2.50	106	101	97	105	100	96	101	97	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: 2022-04-02

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:

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:

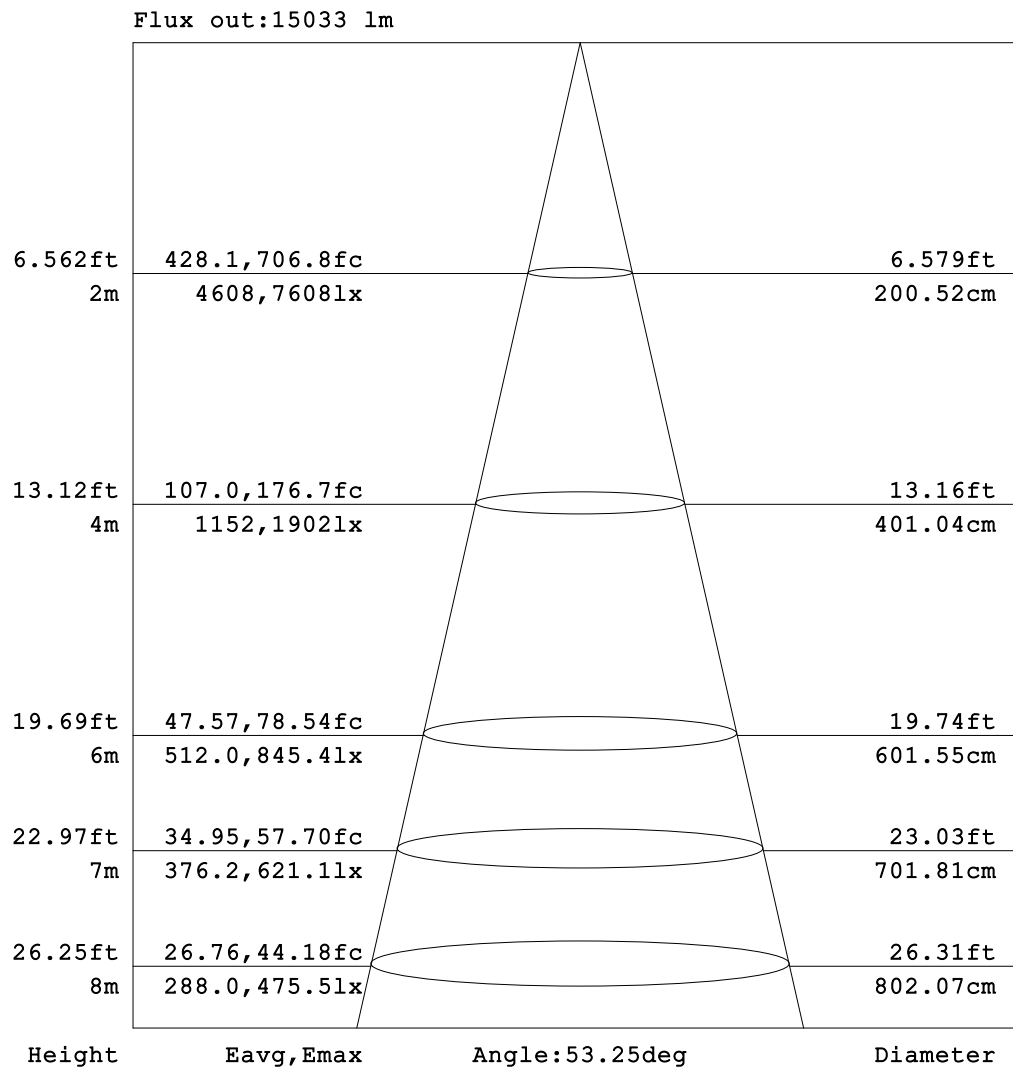


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-04-02

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:



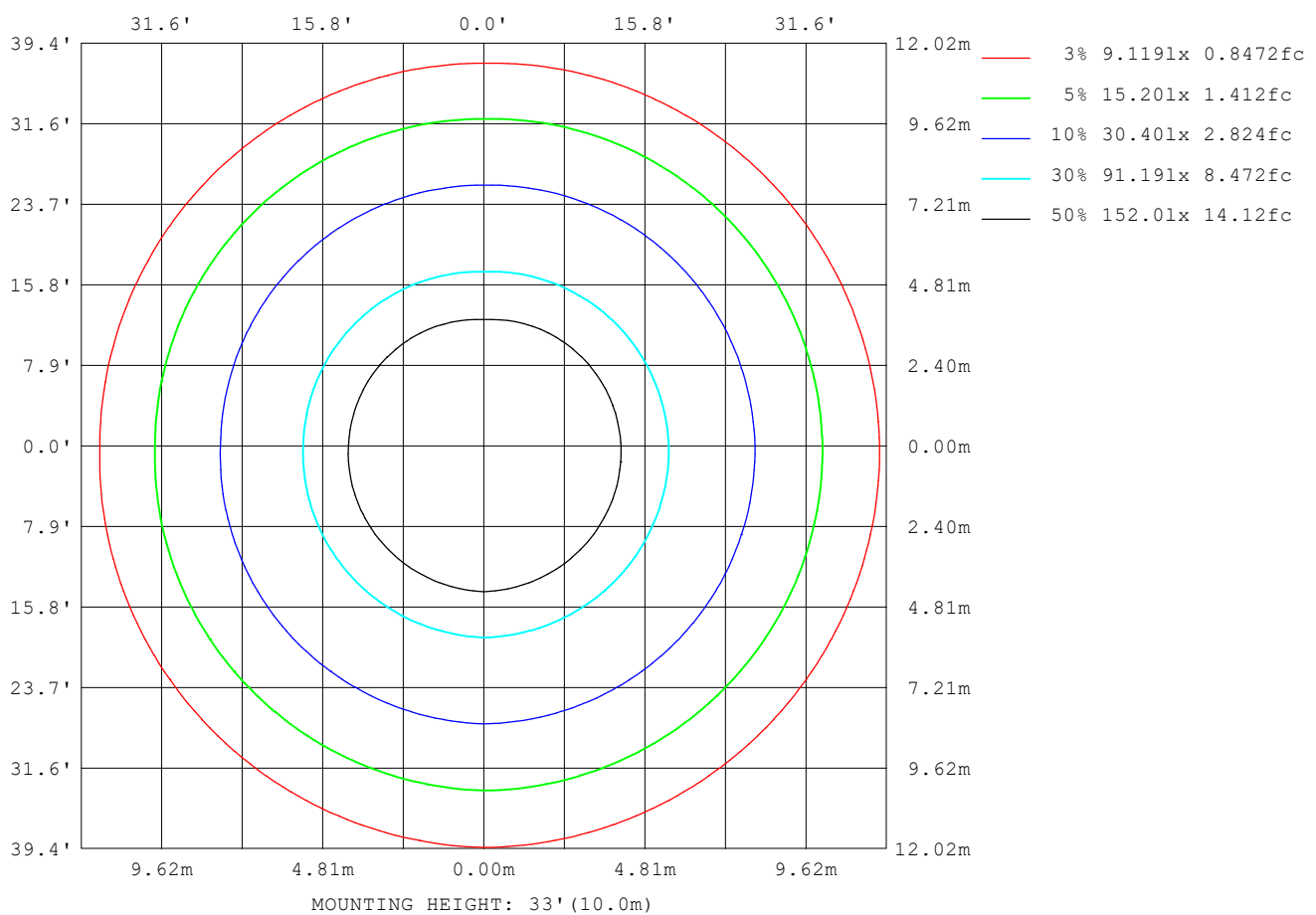
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-04-02

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

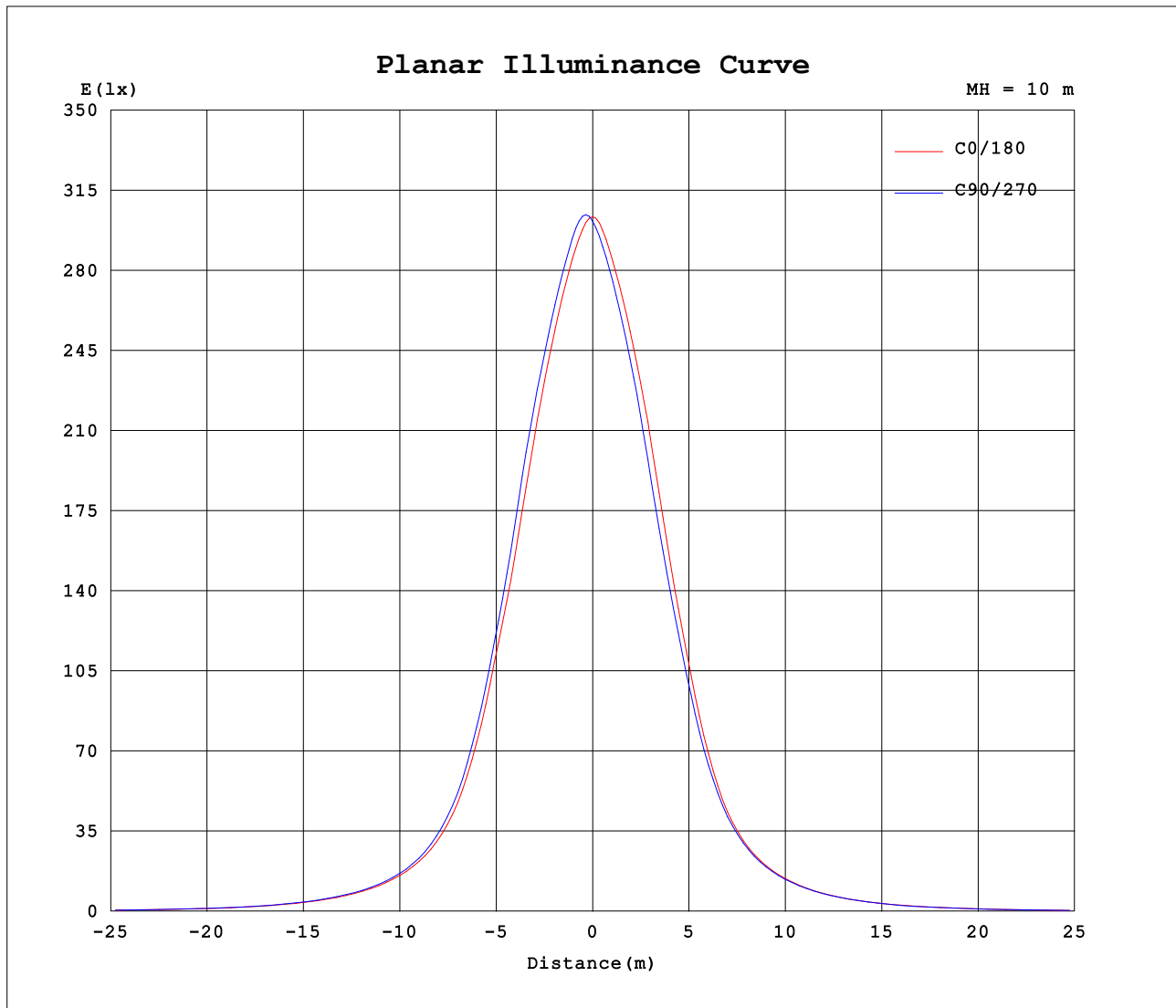
NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\phi 350 \times H170\text{mm}$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\phi 0.35$	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-04-02

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: 2022-04-02

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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