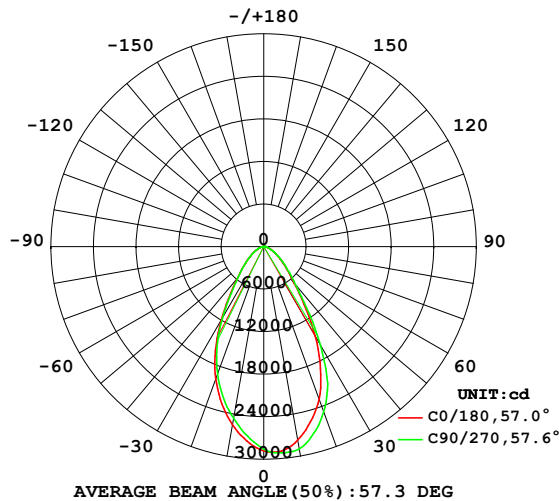


LUMINAIRE PHOTOMETRIC TEST REPORT

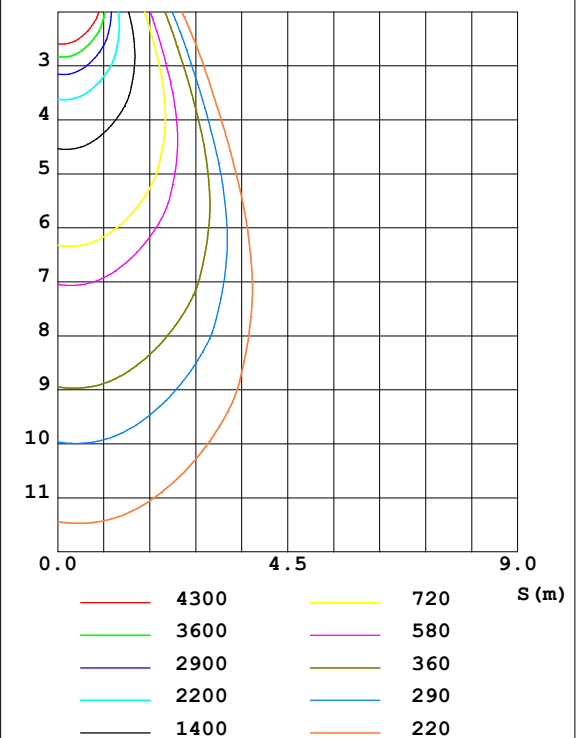
NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi 300 \times H150MM$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi 0.3$	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 210.43 lm/W			
MODEL	UFO150W-60D	I _{max} (cd)	29347	S/MH (C0/180)	0.91
NOMINAL POWER (W)	148	LOR (%)	100.0	S/MH (C90/270)	0.93
RATED VOLTAGE (V)	236	TOTAL FLUX (lm)	31143	η UP, DN (C0-180)	0.0, 55.0
NOMINAL FLUX (lm)	31143	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 45.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	235.7	η down (%)	100.0	CIBSE SHR MAX	0.90

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-05-13

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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2769	2895	2897	2757	2550	2433	2459	2537	0- 10	2633	2633	8.45,8.45
20	2292	2474	2478	2306	1981	1863	1910	1991	10- 20	6819	9452	30.3,30.3
30	1448	1593	1600	1497	1205	1136	1168	1198	20- 30	8148	17599	56.5,56.5
40	665.5	721.9	701.6	671.7	572.1	548.0	563.5	577.6	30- 40	5864	23463	75.3,75.3
50	351.7	371.1	365.6	356.7	307.2	297.5	304.7	309.6	40- 50	3541	27004	86.7,86.7
60	185.7	194.4	189.2	187.4	157.8	153.5	157.9	157.9	50- 60	2197	29201	93.8,93.8
70	93.17	95.84	93.62	92.94	74.80	73.74	75.80	76.12	60- 70	1232	30433	97.7,97.7
80	31.82	32.13	30.66	31.20	21.32	21.68	21.78	21.49	70- 80	560.7	30994	99.5,99.5
90	10.39	10.52	10.53	10.42	8.498	8.548	8.585	8.499	80- 90	149.3	31143	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		

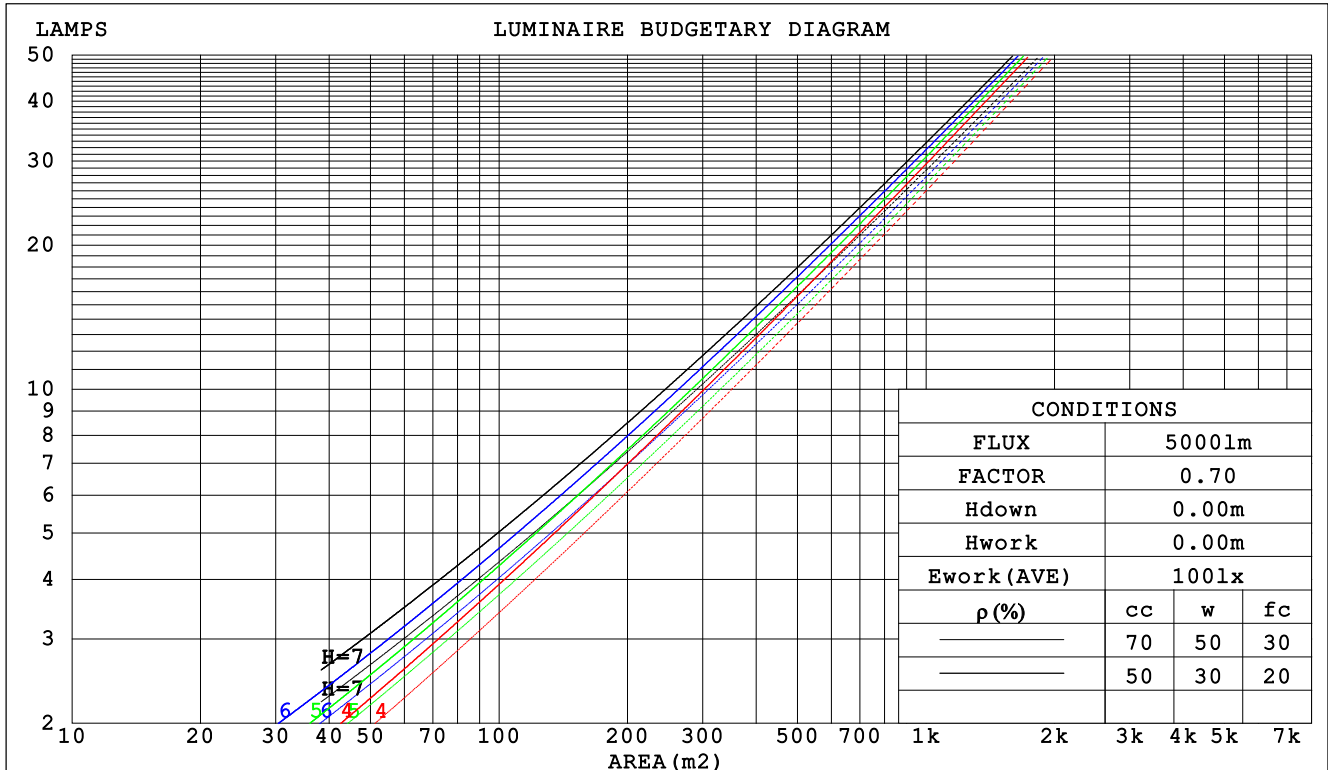
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:chen xue chang
 Test Date:2022-05-13

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:

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:

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	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	1.09	1.06	1.03	1.07	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	.71	.80	.75	.71	.78	.73	.70	.76	.72	.69	.67
5.0	.77	.70	.65	.76	.70	.65	.74	.69	.64	.72	.68	.64	.71	.67	.63	.61
6.0	.72	.65	.60	.71	.64	.59	.69	.63	.59	.68	.62	.58	.66	.62	.58	.56
7.0	.67	.60	.55	.66	.59	.55	.65	.59	.54	.63	.58	.54	.62	.57	.54	.52
8.0	.62	.55	.51	.62	.55	.51	.60	.55	.50	.59	.54	.50	.58	.53	.50	.48
9.0	.58	.52	.47	.58	.51	.47	.57	.51	.47	.56	.51	.47	.55	.50	.47	.45
10.0	.55	.48	.44	.54	.48	.44	.53	.48	.44	.53	.47	.44	.52	.47	.44	.42



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-05-13

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:

WEC AND CCEC

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: Φ 300*H150MM	SPEC.:	SERIAL No.:
MFR.:	SUR.: Φ 0.3	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	.217	.124	.039	.211	.120	.038	.198	.113	.036	.186	.107	.034	.175	.102	.033		
2.0	.208	.114	.035	.202	.111	.034	.191	.106	.033	.181	.102	.032	.172	.097	.031		
3.0	.197	.105	.031	.192	.103	.031	.182	.099	.030	.173	.095	.029	.165	.092	.028		
4.0	.185	.096	.028	.181	.095	.028	.173	.092	.027	.165	.089	.027	.158	.086	.026		
5.0	.175	.089	.026	.171	.088	.026	.164	.085	.025	.157	.083	.025	.151	.081	.024		
6.0	.165	.083	.024	.162	.082	.024	.155	.080	.023	.149	.078	.023	.144	.076	.022		
7.0	.156	.077	.022	.153	.076	.022	.147	.075	.021	.142	.073	.021	.137	.071	.021		
8.0	.148	.072	.020	.145	.072	.020	.140	.070	.020	.136	.069	.020	.131	.067	.020		
9.0	.141	.068	.019	.138	.067	.019	.134	.066	.019	.129	.065	.019	.125	.064	.018		
10.0	.134	.064	.018	.132	.064	.018	.128	.063	.018	.124	.061	.017	.120	.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	.089	.068	.051	.051	.040	.030	.016	.013	.010	
4.0	.141	.100	.068	.121	.086	.059	.083	.060	.041	.048	.035	.025	.016	.011	.008	
5.0	.133	.088	.055	.114	.076	.048	.079	.053	.034	.046	.031	.020	.015	.010	.007	
6.0	.126	.079	.046	.108	.069	.040	.075	.048	.028	.043	.028	.017	.014	.009	.006	
7.0	.119	.072	.039	.103	.063	.034	.071	.044	.024	.041	.026	.014	.013	.008	.005	
8.0	.113	.066	.033	.098	.057	.029	.068	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.108	.061	.029	.093	.053	.025	.065	.037	.018	.038	.022	.011	.012	.007	.004	
10.0	.103	.057	.026	.089	.049	.022	.062	.035	.016	.036	.020	.009	.012	.007	.003	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-05-13

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:

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					26.8	27.9	27.0	28.1	28.3	27.0	28.1	27.2	28.3	28.5
3H					27.4	28.4	27.6	28.6	28.8	27.5	28.5	27.8	28.7	29.0
4H					27.6	28.5	27.8	28.8	29.0	27.7	28.7	28.0	28.9	29.1
6H					27.7	28.6	28.0	28.8	29.1	27.8	28.7	28.1	29.0	29.2
8H					27.7	28.6	28.0	28.8	29.1	27.8	28.7	28.1	28.9	29.2
12H					27.7	28.5	28.0	28.8	29.1	27.8	28.6	28.1	28.9	29.2
4H 2H					27.0	28.0	27.3	28.2	28.5	27.2	28.1	27.4	28.4	28.6
3H					27.7	28.6	28.1	28.9	29.2	27.8	28.7	28.2	29.0	29.3
4H					28.0	28.8	28.4	29.1	29.4	28.1	28.9	28.5	29.2	29.5
6H					28.2	28.9	28.6	29.2	29.6	28.3	29.0	28.7	29.3	29.7
8H					28.3	28.9	28.7	29.3	29.6	28.3	29.0	28.7	29.3	29.7
12H					28.3	28.9	28.7	29.2	29.6	28.3	28.9	28.8	29.3	29.7
8H 4H					28.1	28.7	28.5	29.1	29.5	28.2	28.8	28.6	29.2	29.6
6H					28.4	28.9	28.8	29.3	29.7	28.4	29.0	28.9	29.3	29.8
8H					28.4	28.9	28.9	29.3	29.8	28.5	29.0	29.0	29.4	29.8
12H					28.5	28.9	29.0	29.3	29.8	28.6	29.0	29.0	29.4	29.9
12H 4H					28.1	28.6	28.5	29.0	29.4	28.2	28.7	28.6	29.1	29.5
6H					28.3	28.8	28.8	29.2	29.7	28.4	28.9	28.9	29.3	29.7
8H					28.5	28.8	28.9	29.3	29.8	28.5	28.9	29.0	29.4	29.8
Variations with the observer position at spacings:														
S = 1.0H					+ 0.7 / - 0.9					+ 0.7 / - 0.9				
1.5H					+ 0.8 / - 0.6					+ 0.9 / - 0.6				
2.0H					+ 1.2 / - 0.9					+ 1.3 / - 1.0				

CIE Pub.117 Corrected 31143 lm Total Lamp Luminous Flux. (8log(F/F0) = 11.9)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-05-13

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:

UTILIZATION FACTORS TABLE

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

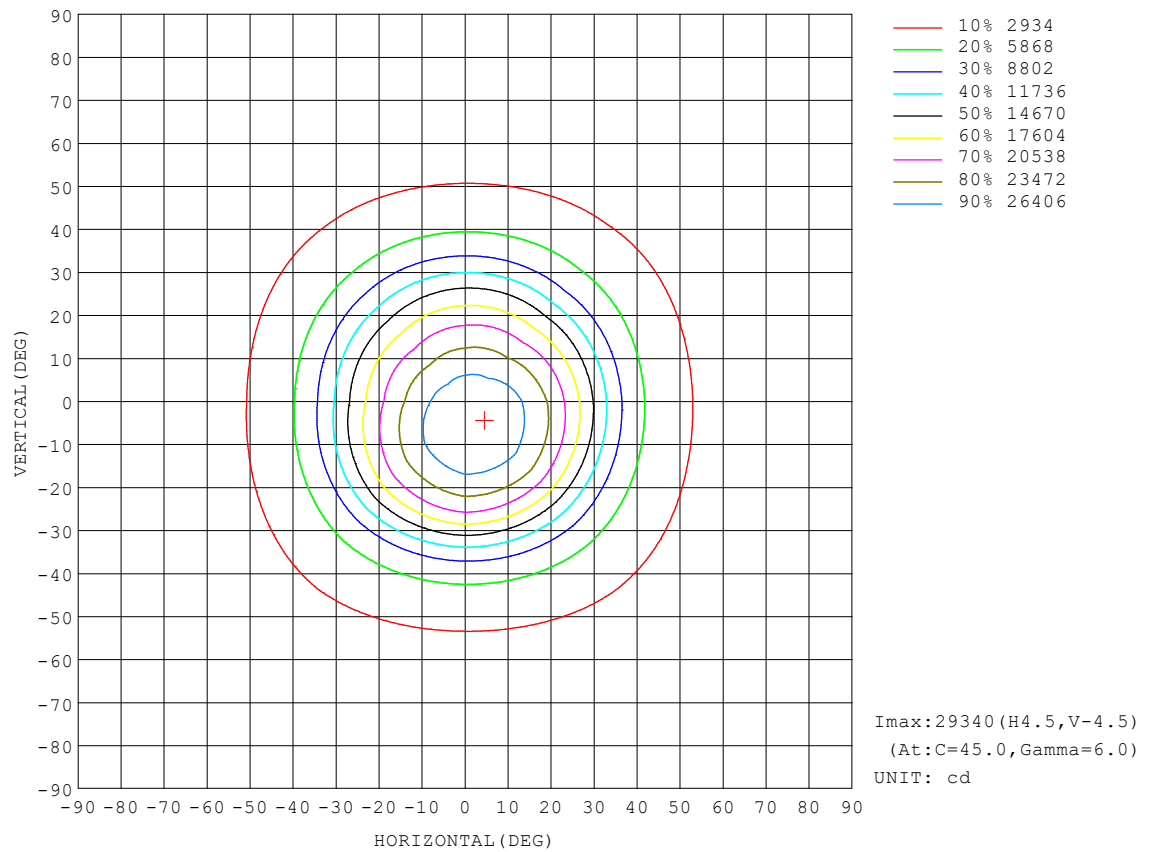
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	76	68	63	75	68	63	75	67	63	58
0.80	85	77	72	84	76	72	83	76	71	66
1.00	91	84	79	90	83	78	88	83	78	73
1.25	96	89	85	95	89	84	93	87	83	78
1.50	100	93	89	98	93	88	96	91	87	82
2.00	104	99	94	103	97	93	100	95	92	86
2.50	106	101	97	105	100	97	101	98	95	88
3.00	109	104	101	107	103	99	103	100	97	90
4.00	111	108	105	109	106	103	105	103	100	93
5.00	113	110	107	111	108	106	107	104	103	94
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNOM = 1.25										

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-05-13

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:

ISOCANDELA DIAGRAM

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: Φ 300*H150MM	SPEC.:	SERIAL No.:
MFR.:	SUR.: Φ 0.3	PROTECTION ANGLE:

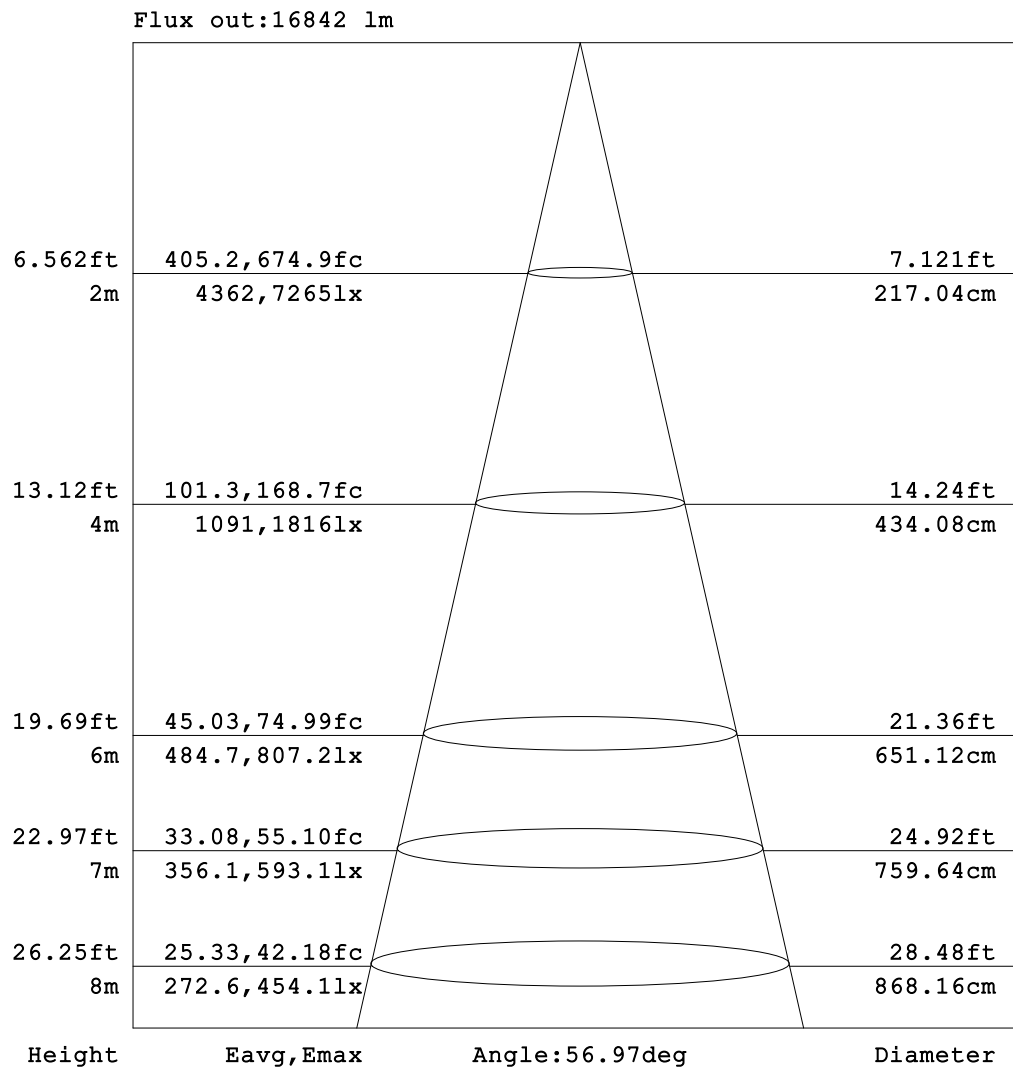


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:chen xue chang
Test Date:2022-05-13

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:

AAI Figure

NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: Φ 300*H150MM	SPEC.:	SERIAL No.:
MFR.:	SUR.: Φ 0.3	PROTECTION ANGLE:



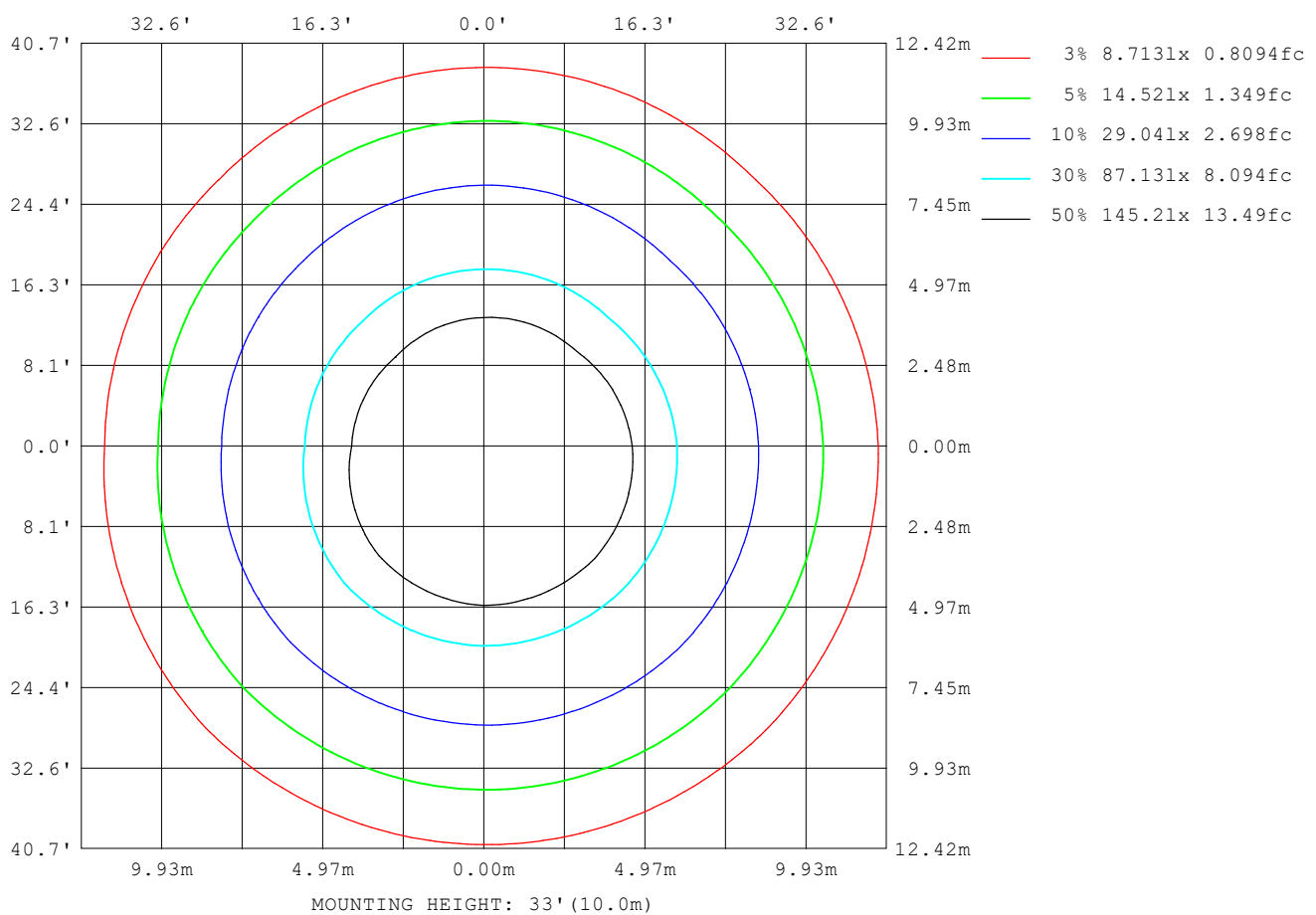
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-05-13

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:

ISOLUX DIAGRAM

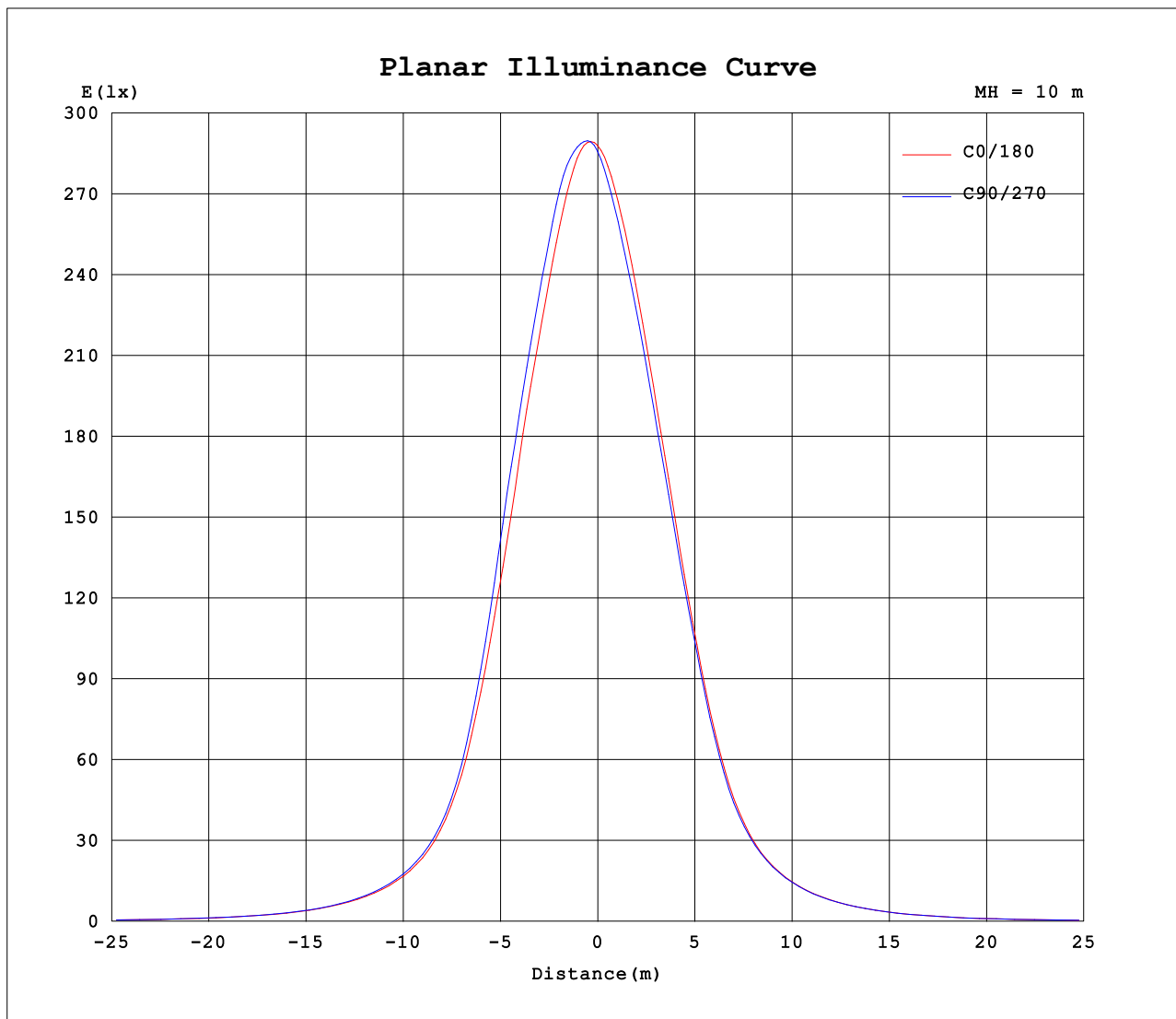
NAME: LED High Bay	TYPE:	WEIGHT:
DIM.: $\Phi 300 \times H150MM$	SPEC.:	SERIAL No.:
MFR.:	SUR.: $\Phi 0.3$	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: chen xue chang
 Test Date: 2022-05-13

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:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: chen xue chang
Test Date: 2022-05-13

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:

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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:7.500m [K=1.0000]
Remarks:

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